



**SOFTWARE DIRECTORY Summer 1986**



# **SOFTWARE DIRECTORY**

**Keyword Index &  
Program Information**

**Complete  
IBM Software  
Coverage**

**Summer 1986**



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## **Twenty-second Edition—obsoletes prior editions**

References to IBM offerings do not imply that they are available in all countries in which IBM operates. The prices are shown in dollars and apply in the United States.

Address comments to IBM, 220 Las Colinas Blvd., Irving, Texas 75062 Attn: Editor 15-5-60. IBMers also may correspond worldwide on VNET (PROFS) to NUCKOLLS at MSNVM1. ITPS = AIRT. IBM may use or distribute information you supply without incurring obligation. You may, of course, continue to use the information supplied. Distribution and listing of programs is at the sole discretion of IBM, without charge to the author. Prices and other program characteristics are subject to change and are presented here for your information. They are subject to confirmation at the time the license commences.

# How to Use this Book

**This is it!** The first place to look for ready-to-use software. It's five quick reference listings to more than three thousand programs. It's often referred to as the 'Little Yellow Book'—and it is IBM's most circulated periodical.

Programs cover the entire range of IBM computers: System/370, 4300, 303x, 308x, 3090, 8100, Systems/34, 36, 38; also Series/1, Displaywriter, System 9000, 5080, IBM Robots and the Personal Computer.

Programs cover the entire range of applications: system control, communications, scientific, professional support, graphics and industry-specific solutions.

## Highlights of this Edition

- Hundreds of new programs have been added; look for the plus (+) sign in the margin. A minus (—) sign in the margin means the product has been or will be withdrawn. In this case you might refer to the Environment field for a successor. Also refer to similar and alternate offerings in the same Cluster in the yellow pages. An asterisk in the margin means that a footnote applies. Footnotes are listed in Appendix B in the back.
- The book will lie flat if pressed open slowly.
- The offerings of IBM's Information Systems Services are presented in these pages.
- The increasing demand of the nontechnical professional for hands-on access to a computer or terminal is a trend of this decade. Note the reference to the IBM Information Network (yellow pages) and a separate Cluster for Decision Support and Query (page 4-26). Also note the wealth of programs to connect the Personal Computer to IBM mainframes and other PCs (rose pages).
- This book now is available online to IBMers worldwide. Request installation of this service by addressing a note to IISSOFT at MSNVM1.

## Five Handy Listings

The programs are listed in this sequence:

- **Software Fair** is a small selection containing the very latest and most popular programs.
- **Personal Computer** programs are listed in the rose (of course) tint pages.
- **Keyword** lists alphabetically the words in the title of a program and any acronyms or standout characteristics.
- **Clusters** of similar programs and interest areas are listed in the yellow pages.
- **Program Number Sequence** is the last, white section.

These concise entries cover programs generally available from IBM. Two Order cards and a yellow Subscription card are in back.

### Software Fair

These are IBM exhibitions, demonstrations and sessions—all under one roof. Atmosphere is very informal—even a little zany. Programs of exceptional merit and high interest in the marketplace are presented. Selections from the rose pages are included also. A listing begins on page 1-1, followed by descriptions of programs featured at Software Fairs.

### Personal Computer Listing

The stream of PC programs approaches the gushing point; and a complete list is presented in the rose pages. Program descriptions are presented for a small selection of unusual merit. If you're an IBM customer turn to the first rose tinted page for the PC subscription procedure.

### Keyword Listing

The largest of the five listings follows the rose pages. If you're looking for a program, pick a word that would describe your interest area (e.g. Sort, Script, DISOSS). Find the word in the list and you'll be looking at *all* the titles containing that keyword.

## Clusters (yellow pages)

Programs with similar functions and those that often are associated are displayed together in alphabetic sequence. The Cluster names and their page locations are listed on the first yellow page. For example, you wish to find programs for office automation. Scan the major Cluster headings and specific categories. Turn to the yellow pages index (first yellow page) for 'Office Automation' to locate a listing of all programs that list office automation as a characteristic. Clusters are designed so that they overlap. And so, many programs are listed in several Clusters. In the above case, DISOSS could be found in the Office Automation Cluster and also in the 8100 Cluster.

This is the section to use for browsing and serious comparison. A preface to the Cluster is included when appropriate.

## Program Number Sequence

If you know a program's order number, this listing is your quickest route to more information. (Program number and order number are the same thing.) This list is complete, in that programs that are obsolescent, obscure, perhaps nowhere else in the book will be found here. Often you'll wish to follow by looking up the program's keywords and Clusters.

## More About the Listings

Lots of information is packed into these listings. So spend a few minutes with the explanations of the column headings and abbreviations, in Appendix B. Here are some reading hints.

- A typical program number looks like 5796-ABC. A suffix e.g. /01, indicates an optional billable feature.
- Installation Productivity Option programs (IPOs) are prefixed 5750 or 5751. Prices and terms are not shown since they represent a combination of customer selected programs. And, of course, you could look up each one in this book.
- A program with a prefix of 5799 is a *Programming Request for Price Quotation*, i.e. a special product. The PRPQ number is printed in the 'Short Name' column; and you'll need it when placing your order. These programs do not have permanent characteristics such as prices, terms and availability.

Programs beginning with 77 also are special in some way. Often they are asterisked in the left margin to indicate that they are amplified in Appendix B.

- At the end of the program number sequence section there are offerings prefixed by 7799. These are not programs but you may specify one on your System Library Subscription (SLSS) as though it were. This will establish a subscription, for documentation only, to a *fixed level* of the specified program. IPO users will find this useful.
- Charges, terms and other characteristics are for information purposes only and subject to change. IBM Licensed Programs are available under the Agreement for IBM Licensed Programs. The charges for the license are monthly and continuous when specified in the MLC column. Applicable taxes will be added to the charges. All information is subject to confirmation at the time of granting the license. Contact your IBM representative for additional information.

## **What to Do Next**

Once you've identified the program you'd like to know more about, flip to the Order card (in back). For *more information* about a program, write in the publication number shown in the 'MoreInfo' column of the listing. To *order* this program, use the same card. Or call IBM Direct (U.S., Hawaii, Alaska, Puerto Rico) at 1-800-IBM-2468; ask for Software Department. *Exceptions* are Personal Computer programs, whose special ordering procedure is explained on the first rose tinted page.

## **Testing Period**

Except for Personal Computer programs most have a test period of one or two months. This encourages you to evaluate the program and is the best way to give it a non-productive test in your own environment. If you decide it doesn't meet your needs, send it back during the test period and you won't be billed.

## **The IBM Information Network**

Hundreds of Information Center programs are available to end users. This encourages the user simply to plug his terminal or Personal Computer into a network that already is on the air. These programs are selected especially for the professional. The user has a rich buffet of the very latest Decision Support and Application Development aids at a modest charge based on usage. This Cluster is presented in detail in the yellow pages.

## **IBM Professional Services**

This is IBM's professional services organization. It offers consulting and assistance for a fee. Experienced personnel are located nationwide to support your efforts in:

Installing and customizing industry application packages.

- Installing and demonstrating application packages.
- Mapping the package to user requirements.
- Designing any required additions or modifications
- Coding and testing the modifications.
- Training users of the package.

Developing new applications.

- Requirements
- Design
- Programming and testing
- Documentation
- User education

Project management.

- Planning and estimating a new project.
- Installing project management tools and aids.
- Reviewing ongoing projects.
- Implementing IBM's application development methodology.

Conversions.

- Conversion and migration planning
- Data base
- Language
- Migration to MVS
- Conversion from another manufacturer's equipment to IBM.

Systems programming.

- Planning for new systems software.
- Installing and testing new releases.
- Converting from one operating system to another.
- Creating systems standards
- Providing guidance to application programmers.
- Training new system programmers.
- Performance studies and system tuning.
- Installing job accounting systems.
- Planning and installing backup and recovery and other data security procedures.
- Network simulation studies.
- Network software installation.

## Information systems consulting offerings

- **Joint Application Design** JAD is an IBM-developed technique to shorten the time it takes to determine requirements and perform the external design. JAD provides greater user involvement than traditional methods. IBM can provide trained JAD design leaders to help you install these techniques.
- **Data Security Analysis** This is a structured technique to review the procedures in use to protect data. The analysis is accomplished by a series of interviews with your personnel, selective tests and an in-depth review of security controls and procedures. This analysis provides a summary of your current data security status, identifies exposures and recommends changes to the existing system.
- **Project Reviews** These are conducted by personnel experienced in project management. It is an independent assessment to determine actual project status vs. the project plan; and to provide early detection of present and potential problems. A review can help your project leaders ensure successful completion of your computing projects.
- **Information Quality Analysis** This is a proven technique to make strategic planning easier and more efficient. The study identifies and examines the data that your users and executives need to make decisions and manage operations. Using an IBM simulation program, you'll see the applications requiring immediate attention and which applications suggest highest payback. The IQA also gives you reports on the timeliness and accuracy of your data and highlights data distribution problems.

Information Systems Services offers workshops to train DP professionals, users and management. They are conducted on customer or IBM premises.

- **Joint Application Design (two days)** to train your future design session leaders and participants.
- **Project Management Workshop (two days)** demonstrates practical techniques for managing the application development process.
- **Project Management for Executives (one day)** is designed to increase the effectiveness of the executive in a development project.
- **Planning and Estimating Workshop (2.5 days)** illustrates how IBM plans and estimates its own projects.
- **Conversion Workshop (2.5) days** teaches IBM's proven methodology for planning and controlling conversion projects.
- **Function Point Analysis Workshop (one day)** teaches how to measure productivity on application development and maintenance projects.

- INTELLECT™ Lexicon Workshop (2.5 days) teaches analysts how to build a sample lexicon for users in their own organization.
- SMP/E Workshop (two days) teaches how to use IBM's System Maintenance Program, the primary tool for performing changes to IBM software.

Custom classes are available by request in areas such as

- Systems programmer training.
- Operator training.
- Application software training for end users.
- Operating systems.
- Communications software.
- Data base software.

For more information on the IBM professional services offerings listed, contact your IBM representative.

## Subscribe to software news and updates

To receive program announcements as soon as they roll off the press, IBM customers can sign up on the yellow Subscription card in the back. Simply check the box for the Cluster desired. Personal Computer customers should check *only* the 2777 box as it contains all PC programs. System Library (SLSS) subscribers optionally can add these Clusters to their subscription in another way—by specifying 'GBOF' plus the Cluster number as the publication number, e.g. GBOF2777. IBMers should have the card processed by their librarian. IBM personnel also may add these SLSS (GBOF) numbers to their DAPS profile by replacing the first two digits (27) with 14, e.g. GBOF2777 becomes DAPS 1477.

Remember, a subscription covers *future* announcements. So, if you also want the existing publication, look up the publication number in the 'MoreInfo' column of the listing for that specific program—and write it on the Order card.

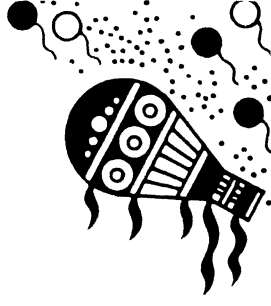
To subscribe to *this book*, indicate the quantity required on the Subscription card (last one). IBMers also may use code 1152 for DAPS subscriptions to this book, or form GB21-9949 for SLSS.

Subscriptions are invited from all countries. In addition to this book you also can subscribe to a slightly different version for the Middle East, Europe and Africa—form number GB11-5703. You should add this form number to your System Library subscription in your own country. IBMers may use DAPS 024-01. The Canadian edition is obtainable as form number GB09-9894 for S/370, GB09-0971 all other computers. Write IBM Direct—Software, Box 657, Don Mills, Ontario, Canada M3C 2T6.





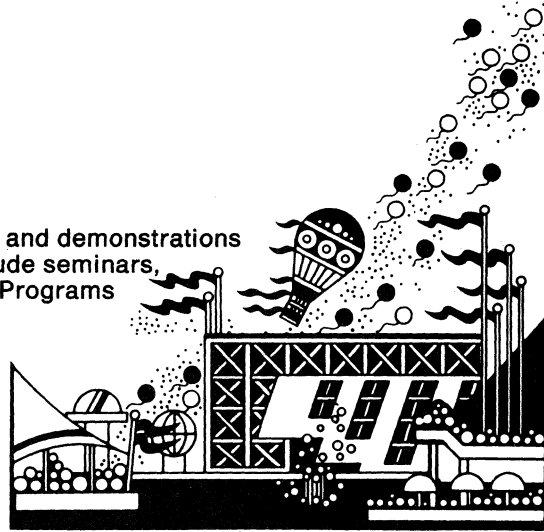
# Section One



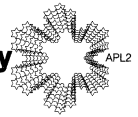
# Software Fair

## Software Fair

These are regional exhibitions of programs (computers too) and demonstrations under one roof. They are for IBM customers. Activities include seminars, workshops and informal question and answer discussions. Programs of exceptional merit and high market interest are displayed. Selections from several such fairs are presented below. These programs may have a one-or two-month free test period (indicated by the number in the listing's third column from right). Software Fairs are held periodically throughout the year. We'll be expecting you.



Program Title	Short Name	Number	OTC	ILC	MLC	DSO	DSI	DSH	MLP	MHL	Mo	MoreInfo	Environment	TPLS
APL2		5668-899	14000	4170	695	12600	3126	521	37	59			.GH20-9214 VM, MVS, XA	15K
*Application System	AS	5767-001	60000	30000	2000								.0E45-5000.MVS, VM+GDDM	.T15E
+Auto Dealer Management System		5796-ZMX	13600										.GB30-6013. System/36	15H
Batch Terminal Simulator	BTS	5668-948	9662	1030	394	7245	773	295	28	46			.GH20-5522 IMS/VS & TC	15K
Business Management Acctg System/36 PC	BMAS	6201-868	995										.SB30-3525 System/36 PC	05G
Business Report/Application Devt Sys/36	BRADS	6201-872	1250										.G280-0237 System/36 PC	05G
+Career School Administration System	Career Sch	5796-TCB	6000										.G320-9506 System/36	15I
+CICSPARS/MVS		5665-355						675					.CICSPARS/MVS	15E
Construction Management Acct System	CMAS	5727-M67	2475		900	145	1855						.GH50-9003.CASS	15B
+GDBL Structuring Facility		5668-786	125000	12500									.GC34-4080 VM, MVS+ISPF	15M
COPICS		5746-XY1	13560		411								.GB21-2650.DOS/VSE, OS/VS DL/I	25A
Cooperative Viewing Facility (CVIEW)	CVIEW	5664-296	5280		330								.G520-6005 VM	25A
Cross System Product	CSP/AD	5668-824	10970			9870					26	42	.GH20-6750.CICS, MVS, SSX	25K
IBM DATABASE 2	DB2	5740-XYR		16050	2675		120362006	374	598				.GC26-4073 MVS, XA+DFP+ISPF	25K
+DB2 Performance Monitor	DB2PM	5665-354	29000	975									.SH20-6857 DB2	15M
+Displaywrite/370		5664-370	14000		665	10500		500	42	60			.VM	25K
Distributors Management Accounting System	DMAS	5727-D41	4070		233	3050							.GH50-0690.CASS	15B
Expert System Environment	ESCE	5798-RHP	25000		1250								.G320-0828 VM	25H
+VS FORTRAN II		5668-806			750			563					.SX26-3751 VM, MVS, XA+DFP	15E
Hospital Information System/36	ADI/PBAR	5727-AB1	16500	750									.SB30-7016 System/36	15H
IMS Application Development Facility	IMSADF	5665-348	54890	2750	41160				200	320			.GH20-6591.IMS	25K
IMS Data Base Tools	DBT	5668-856	20000										.GH20-6579.IMS/VS	25E
INFORM	INFORM II	5798-DDR	15110		687						24		.GB21-2695 OS/VS, DOS/VSE	15H
Information System	INFO/SYS	5665-952		2705	311	2033	233	56	90				.GC34-2096.MVS	15K
Information System for Attorneys	5793-ADR		175										.GB30-6000 System/36 PC	05H
Interactive System Productivity Facility	ISPF	5665-319		690	218		517	163	30	48			.GC34-2136.MVS	15K
ISPF Program Development Facility	ISPF/PDF	5665-317		4025	575		3015	431	14	22			.GC34-2136.ISPF	15K
MAPICS II	MAPICS II	5727-M71	8085	407	7115								.GH30-9006.CASS	15E
MUSIC/SP	MUSIC/SP	5664-197			850								.G320-0805 VM+FORTRAN	25E
Network Design and Analysis	NETDA	5664-202	15000		750								.VM+APL2 or VSAPL+GDDM	25E
Network Performance Monitor	NPM	5665-333		3210	615		2410	460	57	91			.GH20-6559.MVS+VTAM	25K
Office/38 Applications Made Easy	AME	5714-XE1	4400										.GB50-1952 System/38	15X
PARIS	PARIS/Base	5665-320		4708	1350								.GE20-0582 DFB5+DFEF+DMS+IMS+CD	15E
Patient Care System	PCS-APS	5796-BCF	13650		487								.G320-6651 OS, DOS+VSE+DL/I	15E
Professional Office System	PROFS	5664-309	22000		995	16500		745					.GH20-6795 VM	T25E
Retail Application System/36	RAS/36	5798-RAS	19900										.GB50-2497 System/36	15H
Retrieval/36		5798-RPX	1320										.GB50-2069 System/36	15X
Routing Table Generator	RTG	5668-815	6000		300								.GH20-6787 PL/I+MVS, XA or VM	21E
+RS/1 tm		5664-316	23000										.G320-0840 VM+GDDM PGF	.T15E
System Modification Program/Extended	SMP/E	5668-949		1920	380		1440	285	97	155			.GC28-1106 OS/VS, MVS/XA	15K
System/36 Computer-Assisted Training		5710-CAT	990										.GB30-2233 System/36, S/36 PC	15H
UCC TMO tm	UCC2	5796-PHW	49500										.G320-9190 VSE+MVS, XA	15H
+Videotex		5798-DTH	75000		4000								.G320-9388 CICS/MVS	25H
Voice/Text Messaging System	VTMS	5796-PZB	10560		480								.G320-9231 VM	15H



**APL2** is a versatile, interactive programming tool for problem solving, data analysis, system design and application development. It is an all new implementation of the APL programming language and its system support environment. Interactive access to many IBM programs, combined with generality and ease of programming, makes it a compelling choice for the design and development of applications.

APL2 consists of a programming language and the system environment. The language is general purpose, allowing fast and concise design and implementation of applications. The functional programming style encourages the modular development of applications, increasing programmer productivity and decreasing programming errors. The system environment allows management of applications using the interactive session manager. Applications are implemented in the APL2 Workspace— a reservoir for programs and data.

### **Highlights**

- The Associated Processor feature allows APL2 programs to call routines written in Assembler, FORTRAN and VM REXX. This facility extends the applicability of APL2 for a variety of application programming tasks in engineering, science and business. Using APL2 in conjunction with FORTRAN, applications can take advantage of the processing power of the 3090 Vector Facility.
- The user has the option of using the system editors, ISPF and XEDIT, to edit APL2 programs and data.
- The Execute Controlled system function allows flexibility and control when executing APL2 language statements within user applications. This function enhances the error handling facilities introduced in Release 1.
- Character set restrictions have been relaxed to allow a larger number of acceptable characters in literals and comments, and to allow the use of lowercase alphabets in APL2 names.
- The GDMX Distributed Workspace facilitates the use of APL2 in conjunction with the Graphical Data Display Manager.
- Improvements have been made to the SQL distributed workspace to support new function in the SQL application programming interface, and allow greater productivity while implementing SQL applications. An interface is provided to the GDDM Interactive Chart Utility for graphic display of relational data.

## **APL2 for Systems Integration**

APL2 offers a variety of supported interfaces to VM, MVS and XA. These include:

- GDDM for user dialogs, device control and graphics.
- The Interactive System Productivity Facility for advanced user interface management.
- IBM Database 2 and Structured Query Language/Data System for relational data base access and management.
- VS FORTRAN and Assembler for high-performance processing and access to existing compiled subroutine libraries.
- VM interpreter (REXX) for host support, string processing and general procedural language programming.

These programs can be integrated into APL2 to complement and extend the versatility of the language and system for a variety of application programming tasks.

## **APL2 and FORTRAN**

The new Associated Processor facility allows applications to call FORTRAN and Assembler subroutines. APL2 is a programming language and an interactive environment that allows quick design and implementation of sophisticated applications. What happens when FORTRAN and APL2 are combined into the same environment?

Using the APL2 Associated Processor, both APL and FORTRAN programmers benefit from the connection. For APL programmers, FORTRAN offers algorithmic efficiency and versatility, access to compiled subroutine libraries and use of specialized hardware and software. For FORTRAN programmers, APL2 offers a new way to use FORTRAN—a revolutionary computing environment for the design, implementation and test of FORTRAN application components.

This facility is useful for a variety of production APL2 applications:

- Use of existing programs and subroutine libraries  
Existing procedures written in FORTRAN or Assembler now can be used without modification in APL2 applications.
- Improved execution performance  
Computationally intensive portions of a program can be implemented in compiled code for better performance.
- Use of special software and hardware  
Using compiled code, applications can access specialized software and hardware resources such as the 3090 Vector Facility.

## **APL2 and GDDM**

APL2 has an application program interface to GDDM. It allows applications to use GDDM facilities for graphics, dialog and format management, and device control of displays, printers and plotters. APL2 also supports the Presentation Graphics Feature, Interactive Chart Utility and Interactive Map Definition.

Because APL2 programs are so easy to design, modify and re-execute, APL2 is the ideal tool for developing GDDM full-screen and graphics applications.

## **APL2 and SQL**

APL2 has a direct, easy-to-use interface to the IBM relational data base management systems: DB2 and SQL. SQL runs under VM or VSE. DB2 runs under MVS and XA.

Both read, write and manage data stored as relational tables. Because tables are simple and familiar (phone books, airline schedules and bank statements—all are table structures), most people can learn and use them easily.

APL2 applications communicate with DB2 and SQL using SQL. SQL is a nonprocedural language; users specify what they want to do, not how to do it. The same language is used for all operations on relational tables including definition, retrieval and manipulation.

The APL2-SQL interface allows applications to pass SQL statements in the form of APL2 character vectors or matrices to the data bases, and receive tables from them, in the form of APL2 arrays containing both character and numeric data. This facility makes APL2 one of the most versatile, relational data base-related programs.

## **APL2 and ISPF**

APL2 can be invoked by the Interactive System Productivity Facility, and its applications can use ISPF services through an auxiliary processor. ISPF is a set of executable routines that the user may invoke as part of an application. ISPF allows for the execution of special interactive programs called dialogs. The application is controlled interactively by the user. ISPF operates in conjunction with APL2 under VM, MVS and XA.

## APL2 and REXX

APL2 applications under VM can call functions written in REXX. REXX has facilities for accessing data and text within the host and application subsystems. This information now is easily available to APL2 applications. REXX also has language features that aid in string handling and parsing; APL2 applications that require string processing can take advantage of these functions.

### How does APL2 differ from ...?

- Application generators, query systems, report writers?  
APL2 is a general purpose programming language available in an interactive application development environment. It may be used by knowledgeable users to perform direct queries, produce reports and develop applications. APL2 may also be used to *develop* application generators, report writers, query systems and other application packages. The application packages may then be operated by end users who have little experience with computers.
- Other programming languages?

A combination of characteristics makes APL2 unique:

- The interactive programming environment and language facilities allow for fast development and easy use of applications.
- Array data structures and operations let programs perform manipulations and computations on whole collections of data, rather than on single data elements. The result is simpler application programs that are easier to develop and maintain.
- Dynamic data structures alleviate the need to predefine the structure and type of application data. There are no data declaration or typing statements—data arrays are created and used dynamically. This results in generalized applications that can operate on a variety of similar problems.
- Concise notation for specifying algorithms and procedures. Programs in APL2 are generally much smaller than equivalent programs in other languages, allowing quicker application development, fewer programming errors and easier maintenance.
- Interfaces with other IBM programs allowing APL2 applications easy access to services such as relational data base management, graphics, dialog management, device control, high-performance computation and host-system services.



## **APL2 Application Areas**

APL2 is especially useful for applications where computation, operations on data structures and integration of system components play an important role. Applications in the following areas are good candidates for APL2:

### **Application Design and Development**

Designing computer applications is an expensive and time-consuming activity. The ability to quickly develop prototype applications is one of the main reasons people use APL; it cuts costs and saves time.

A prototype is a working version of an application that captures the major features of the problem and its solution, but without the refinements that constitute a production system. APL2 is one of the best tools available for implementing prototype systems. The conciseness and brevity of its expressions allows the design and implementation of prototype models in a fraction of the time required by other languages. This allows the user to see a working version of the system early in the design phase. The result is that the "wrong system" is hardly ever coded in APL.

### **Graphics Applications**

APL has always enjoyed the reputation for being a good tool for graphics applications. The GRAPHPAK Workspace, distributed with this program, continues to be the mainstay of many business and engineering APL graphics production systems.

APL2 is well suited for graphics programming for several reasons:

- It has a well-defined, fully supported, easy-to-use interface to GDDM. GDDM has facilities for graphics, dialog management and device control for a variety of environments. The GDMX Workspace further refines use of the APL2-GDDM interface. APL2 can take advantage of and use all the facilities offered by GDDM including the Interactive Chart Utility, the Presentation Graphics Feature, the Interactive Map Definition and the vector and image symbol editors.
- The use of general arrays allows for the easy, dynamic construction of data structures useful in graphics applications. For example, arrays easily represent structured collections of point-sets specifying graphic points, lines and solid geometrical objects. The ability to specify application-specific graphics utilities as functions, and apply these programs using APL2 rules and syntax, greatly simplifies many graphics programming tasks.
- Because a program and its associated calls to GDDM are so easy to modify and re-execute, the APL2-GDDM combination lets graphics application designers experiment with various alternatives. In many graphics application systems, technology is the bottleneck of creativity;

APL2 opens this bottleneck. The result is faster design and development of better graphics applications.

### **Relational Data Base Applications**

Relational tables, the fundamental data structure for relational data base applications, are represented easily and naturally as general arrays. All the capability of this language can be brought to bear on the computation and manipulation of relational data structures. In addition, it offers a straightforward, fully-supported interface to IBM's relational data base management systems: DB2 (under MVS and XA) and SQL (under VM). The interface allows programs to pass relational data as general arrays; and SQL statements in the form of character arrays, directly to DB2 and SQL, and to receive relational data as general arrays. The SQL Workspace simplifies use of the APL2-SQL interface, and offers easy-to-use facilities for data query and update, as well as more detailed tasks like cursor control, rollback and commit operations.

Potential areas for using APL2 in relational data base applications include:

- **Interactive relational application systems**  
The ease with which it can create, access and manipulate relational data makes it a good candidate for implementing interactive relational application systems. The SQL interface, combined with the interfaces to GDDM and ISPF, provides a versatile tool for analysis and management of relational data.
- **Relational data model design**  
A major obstacle to the use of relational data base systems is the design and implementation of a data model for a particular application. The data model design phase usually requires experimentation and analysis to arrive at the correct set of relational tables for the problem at hand. Since APL2 makes prototype applications so easy to design, implement and test it is the ideal tool for this job.
- **Small multiuser applications**  
A unique set of facilities for building multiuser application systems is provided. The user-to-user shared variable interface facility allows applications to communicate directly and asynchronously among different virtual machines (in VM) or TSO address spaces (in MVS and XA). This makes possible the easy design and construction of multiuser relational applications, using a single-user SQL interface server, accessible from multiple users.

### **Engineering and Scientific Applications**

- Arithmetic data can be expressed as complex numbers and the arithmetic functions and operations perform complex calculations. This greatly simplifies mathematical and engineering calculations involving complex data. Complex numeric arrays are also useful for representing point-sets in two-dimensional graphics applications.

- Accesses the IBM relational data base management systems, DB2 and SQL, for engineering and scientific data base applications.
- Provides facilities for a variety of mathematical computations, including:
  - Eigenvalue
  - Eigenvector
  - Roots of polynomials
  - Matrix inversion
  - Linear equation systems
  - Circular, hyperbolic, pythagorean and complex number functions
- Has wide application in modeling and simulation applications. Examples include circuit design and analysis, production and distribution, and molecular modeling and analysis.
- The facility for calling routines in FORTRAN and Assembler allows applications to use existing mathematical and engineering subroutine libraries, and allows the efficient implementation of computationally intensive application components.

**Artificial Intelligence Applications**

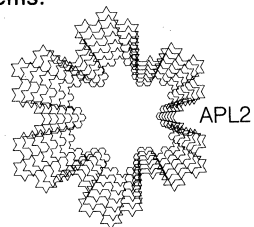
AI applications often elude exact design specifications; it is difficult to know in advance the exact algorithms that will be used to solve a problem. In addition, AI problems are often data driven. Control and sequencing information normally found in the application program is imbedded instead in the application data. These two characteristics make them good candidates for APL2. Because the programs are easy to redesign and modify, they offer advantages for implementing ill-defined applications. Likewise, the ability to model and use sophisticated data structures, and to design data-driven applications, is a characteristic of APL2 and its use.

**Related Products**

- May be used with the Application Prototype Environment program (5668-896), which aids development of screen-based applications.
- May be used with Information Center/1, Release 1.1 (5668-897), which utilizes the APL2-SQL application programming interface to provide relational data base support.

**Darwin's Syndrome**

Some computer applications never stop evolving. As soon as the problem is solved, the problem changes. These applications are a natural for APL2. The ability to modify programs, replace components, and get the system running again is a hallmark of APL application systems.



## Publications

General Information is free; the others are chargeable. Request them on the Order Card in back.

General Information Manual	GH20-9214
An Introduction to APL2	SH20-9229
Migration Guide	SH20-9215
APL2 Programming Guide	SH20-9216
Using Structured Query Language	SH20-9217
System Services Reference	SH20-9218
Messages and Codes	SH20-9220
Installation and Customization Under CMS	SH20-9221
Installation and Customization Under TSO	SH20-9222
Language Reference	SH20-9227
GRAPHPAK: User's Guide and Reference	SH20-9230
Using the Supplied Workspaces	SH20-9233
Reference Summary	SX26-3737
Language Reference Card	SX26-3738
Diagnosis Guide	SY26-3931
APL2 Diagnosis Reference	SY26-3932

## Application System 5767-001

**AS** is designed to help the professional do his job better and faster. Its extensive ease-of-use and integrated business oriented facilities make it a powerful decision support, departmental computing and interactive application development system. AS also is available as a remote computing services product of the IBM Information Network.

English language commands, conversational prompts, PF key operations, option window selections, AS language statements, or menus and procedures created by others make it possible for managers, administrators and staff personnel with little or no data processing experience to:

- Collect and manage data.
- Retrieve and analyze information.
- Produce comprehensive and stylized business reports.
- Present information graphically.
- Use statistical analyses and forecasting packages.
- Construct business plan models and evaluate alternatives.
- Manage projects with tools like network drawings and risk analysis.
- Create and format letters and large documents.
- Develop a variety of applications for individual or general use.

**Data Management** Enter and update data interactively at a terminal or load it from another system. Data is fully integrated within the AS system. Once entered, information files are available immediately for any AS function or process. Data files can be combined, updated, reorganized and summarized. Full data management facilities and data dictionary help safeguard against inaccurate data entry through extensive verification and validation facilities.

In a VM environment, AS supports access to private AS data, CMS data data files, VSAM data sets and relational data held in Structured Query Language/Data System (SQL/DS) tables. SQL/DS support provides for extra security, concurrent update and authorized access to corporate data on tables up to 32 billion bytes in size.

In an MVS environment, AS supports access to private AS data, OS data sets, Partitioned Data Set (PDS) members and VSAM data sets with RACF protection. In addition, AS supports access to relational data held in Database 2 (DB2) tables. The DB2 Interface, like the SQL linkage, enables maximum usage of relational technology without a detailed understanding of its concepts or terminology.

Other features of AS in an MVS environment permit the user to access data that resides on one or several AS systems in an SNA network, thus providing greater availability of data. Batch mode operation under MVS is also available.

**Information Retrieval** Information from multiple files can be processed concurrently. With simple commands, persons having access to files are able to locate, browse, extract, calculate, resequence and view information. Use arithmetic/logical relationships and two- or three- dimensional analyses to clarify your data.

In addition, AS procedures can closely communicate with Interactive Systems Program Facility (ISPF) dialogs. These functions allow AS users to pass commands and variables to and from ISPF.

**Business Reporting** Create formal reports using AS default formats or specify your own design for tailored reports that can be repetitively generated when new data is available. Reports may include calculated data, statistical evaluations and modeling results, titles and headings, totals by row and column, and detailed or summary information. Use upper and lowercase letters, color and different typestyles to give reports a professional appearance.

**Business Graphics** Let AS help convert your data into one of several clear and powerful business graphics. With a single command, through conversational prompts, or by using the PF keys and option windows, you can produce line plots and scatter diagrams; overlapping bar charts and histograms; surface and radar charts; pie charts with 3D effects and exploded slices; tower charts with 3D effects using blocks, cylinders,

wedges or pyramids; mixed and multiple charts on an individual screen; and map charts from coordinates.

AS will produce scaling, titles and legends for you, or you can specify your own. High resolution graphics can be created with up to seven colors, and AS will save your display for presentation on a plotter. The Interactive Chart Utility may be invoked directly from AS as an alternative to producing charts from AS data.

**Statistical Analysis** The wide range of analytical and descriptive statistical functions built into AS include elementary statistics, correlations, regression analysis, trend analysis, time series forecasting, significance tests, bivariate curve fitting, component analysis, general analyses and discounted cash flow.

AS has full screen operation and integrated graphics for visual representation of statistical results. Result files and displays can be saved for use in other applications.

**Business Planning** Use built-in AS capabilities to model your business plans. You specify relationships between items and their known or projected values. AS performs all calculations and displays results in a spreadsheet format. Then, you can evaluate what-if alternatives by changing displayed values. AS will highlight the resulting model changes for your consideration. AS also lets you consolidate, compare and produce optimizations of your business data.

**Project Management** AS can process arrow and precedence networks based on time and resource analysis. Network drawings can be produced for both with four levels of information detail and multiple facilities available for examining all or part of the network, such as the critical path, in selected detail. Free float as well as total float can be calculated. Resources can be assigned to tasks and analyzed to compare availability with usage, with the results displayed graphically. Probability of completion based on risk analysis, by activity or globally, also can be seen in graphic displays. Other charts and a variety of standard project report formats can be created, and network drawings can be made available for plotting.

**Text Processing** Text processing includes features such as margin justification, multiple columns, section headings, control over spacing, indentation and paging, routines for standard tasks, preparation of figure lists and indices, and creation of boxes or frames around text. Information from reports, graphs and other AS functions can be included with a few keystrokes. You can create text and include data at the same time.

**Word Processing** The AS memo facility lets you prepare memos and letters using your own format or an AS default. Other features let you highlight items, produce bulleted lists, include conditional text, use different typetypes, incorporate AS data into documents, and locate and edit your text.

**Application Development** AS can produce results similar to traditional programming methods for building and installing a variety of tailored computer applications.

AS capabilities provide for defining PF keys, designing menus, specifying levels of password protection for data and applications, using extensive data validation techniques, including pattern and mask functions, using arrays, logical operators, and global system values, creating and processing cyclic files; recalling command sequences with a single label; relating data from several files; prompting for values; specifying replaceable parameters; generating commands based on conditions or test results and defining routines.

With these AS capabilities, applications can be structured as a series of user defined questions, prompts, entry menus, messages and displays. Users also can access tailored AS applications via Professional Office System (PROFS) or Interactive System Productivity Facility (ISPF) menus.

**Disconnected Operation** In a VM operating environment, an AS session can be started in disconnect mode where an active terminal is not needed. This mode of operation provides an installation with the capability of processing long-running jobs during periods of low system usage.

**Batch Mode Operation** In an MVS environment, AS can be invoked from the Terminal Monitor Program to run as a batch job. Batch invocation counts towards the concurrently signed-on terminal user (CSTU) limit. The TSO user ID associated with the batch job cannot use AS interactively while the batch process is active.

**Hardcopy Generation** Printing of data files and screen images can be accomplished easily with a single key or with AS commands. AS offers a variety of printer options, including dot matrix, Displaywriter and color printers. Superior quality printed output can be produced using the 6670, which allows up to four typestyles within the same document. Graphics output can be produced using the IBM 7371 and 7372 color plotters connected to the 3270-PC Model G or GX with GDDM.

**National Languages** AS supports operation in several national languages in addition to English. Any user can change from the default language to another at any time during a session.

### **Primary Users and Potential Benefits**

AS can be used by most professionals and their staffs in business, industry and government as well as by Information Services departments and Information Centers.

- Professional's Managers, professional staff and administrators can use AS' breadth of function to improve management, analysis, and decision making in fields like advertising, distribution, engineering, marketing, personnel, purchasing and sales.

- **Specialist Users.** Financial analysts, statisticians, project managers, business planners and technical writers can use the depth of AS function to support specific application needs in areas such as construction, finance, planning, research and document composition.
- **Application Providers.** Trained functional specialists can use AS for quick and versatile application development to meet the needs of individuals and departments.
- **Application Users.** Executives, managers, clerks and secretaries can access and use AS applications developed by others. These applications can be structured entirely of questions, prompts, entry menus and displays that are simple to follow and use. Such applications can be accessed by PF key from a PROFS or ISPF menu.
- **Information Services.** I/S departments find that AS helps meet a number of requirements.
  - **User requests.** Programmers and analysts can use AS to help improve productivity over what it would be if using procedural languages for developing and maintaining a variety of applications, and for fast turnaround on ad hoc requests for information.
  - **Prototyping.** Because AS can be an effective prototyping tool, users can be involved in the early stages of application development, testing functions, and recommending more effective approaches.
  - **Internal requirements.** AS can be used by the I/S department to identify, track and present its own measurement data, personnel information and financial considerations.
  - **Managing DP projects.** The comprehensive project control function of AS can be of significant value in helping management plan, track and control the large development efforts and facility changes that occur.
- **Information Centers.** ICs can simplify their software selection process with a single, integrated, multifunction product that can meet the sophisticated and diverse needs of users. With AS, your Information Center specialists need to install, learn, teach and provide user assistance for only one product. That helps them provide Information Center services productively while the uniformity of AS helps foster a cohesive, self-sufficient user community.



## Environment

- VM (with or without HPO in compatibility mode) or VM/SP Entry
- GDDM with PGF
- SQL/DS is required for AS access to SQL tables
- ISPF is optional

or

- MVS or XA
- TSO/E
- GDDM with PGF
- ISPF
- ACF/VTAM
- SMP/E
- MVS/370 DFP Release 1 is needed for MVS/SP Version 1
- MVS/XA DFP Release 1.2 is needed for MVS/SP Version 2
- DB2 is required for AS access to DB2 tables

## Potential Benefits

See the Product Value Quantification Marketing Guide, ZZ20-4118. Several justification benefits specified in the guide could apply, such as:

- Increased end-user productivity.
- Improved application programmer productivity.
- Faster application development.
- Quicker application payback.
- Improved use of management time.
- Improved currency and accuracy of information.
- Reduced DP charges to end-users.

## Ordering Information

AS can be licensed for an initial license charge of \$30,000 and monthly license charges, or for a one-time charge.

Monthly charges are associated with a maximum number of concurrently signed-on terminal users (CSTUs). The following monthly license charges become effective September 6, 1986.

CSTUs	Mo. License Charge
15	\$2,000
30	3,900
60	5,900
No Limit	8,900

A different one-time charge applies to the desired number of CSTUs.

CSTUs	Total One-Time Charge
15	\$ 60,000
30	95,000
60	145,000
No Limit	195,000

Test Period One month

Program Service Central service available

### Publications

Executive Brochure	G534-2216
Executive Flyer	G534-2217
General Information Manual	GE45-5000
Program Product 5767-001, Product Description Folder	G534-2249
Metro Dade Customer Brief	GE34-2018
Los Angeles Times Customer Brief	GE34-2030
Palm Beach County School District Customer Brief	GE34-2028
Application System in the Insurance Industry	G534-2252
Licensed Program Slide Presentation	SV34-2008
Project Control Slide Presentation	SV34-2018
Brochure for Executives	G511-0120
Announcement Brochure	G511-0040
Mailer	G511-0039
AS for Project Control	GK10-6455
AS Information for DP Management	GK10-6449
AS for Business Professionals Brochure	G511-0217
National Exchange Carrier Association Customer Brief	GE34-2020
AS on IBM Information Services Network	G534-2254
AS Folder (Kit Cover)	G534-2260
Library Card	GE45-5001
AS by Example	SC34-2259
Application System Graphics Example	SH19-6310
General Reference Manual	SH45-5004
Statistics and Forecasting User Guide	SH19-6304
Equations and Algorithms Reference Manual	SC34-2217
Business Planning User Guide	SH19-6301
Model Immediate Reference Card	SX11-6085
Interactive Business Planning User Guide	SH19-6309
Project Control User Guide	SH19-6305
Document Preparation User Guide	SH19-6308
Memo Reference Card	SX11-6083
VM Facilities for Application System Users	SH19-6332
Installing AS in a VM Environment	SH19-6328
AS Newsletter 70	GH19-6451
Learning AS	SH45-5003
Installing AS in an MVS Environment	SH19-6329
MVS Facilities for AS Users	SH19-6334
AS Newsletter 71	GH19-6460

# Auto Dealership Management System 5796-ZNX

The System/36 Auto Dealership Management System, Version 2 consists of a set of ten comprehensive applications: Accounting, Parts Inventory Control, Parts Invoicing, Leasing, Service Merchandising, Vehicle Control, Traffic Control, Customer Follow-up, Contract Preparation and Management Reports. The applications are flexible and allow tailoring to each dealer.

## Highlights

- Supports dealerships with multiple franchises—a new function with Version 2.
- Flexible part numbering supports up to six formats (Version 2).
- Edits reduce incorrect data.
- Allows quick screen inquiry into files, such as vehicle inventory, accounts receivable, parts inventory and service history.
- Enter amounts—not accounts. With tailoring it may not be necessary to enter account numbers for most applications.
- One-time data entry system. Data entered is available to all applications.
- Reduces manual analysis.

**Accounting** This application is the prerequisite for all other applications. It is designed to perform accounting functions including sales, receivables, payables, general ledger, financial statements, file inquiry and daily and monthly reports. The Accounting application also provides data base management functions.

The Accounting application simplifies the management of a complex business.

- Reports by dealership and franchise
  - Vehicle inventories
  - Warranty claims
  - PDI claims
  - Holdbacks
  - Vehicles on order.
- Prints financial statements. Many formats are available.
- Using vehicle sales, it updates sales, cost of sales, inventory, receivables, etc. from its data base.

- Calculates sales tax.
- Maintains trust account and trust ledger.
- Sets up trade-in inventory and assigns stock number.
- Calculates sales commission based upon the selection from several formulas.
- Flags units for insufficient transit time claims.
- Flags mileage discrepancies and low gross sales, and prepares summary list.
- Handles different sale types: dealer trades, wholesale, fleet, internal, special types.
- Retains information for history files.
- Updates and prints subsidiary accounts in journal for audit trail.
- Manages warranty claims.
- Writes checks, and also handles manual checks.
- Prints customer statements.
- Processes service car rentals (if Leasing is installed).
- Ages accounts receivable.
- Calculates interest on overdue accounts.
- Prints Missing Document Report for all number controlled source documents.
- Daily Operating Control compares current and projected position to forecast by department.
- Maintains a page number control for all journals and schedules.

**Parts Inventory Control** applies current sales receipts and orders to the Parts Inventory Record, and creates a Parts Activity and Order Report. The report lists all parts that are active in the current cycle, then calculates and lists the suggested order.

This application produces a Parts Bin Locator List for each cycle, for counter and telephone use. This report lists stocked parts showing the main bin location, transfer references and alternate part references with retail, trade and cost.

Each quarter, a Management Review Report can be produced that shows inventory status, sales history, part movement, guide and inventory value for every part in the system. It also indicates a surplus or shortage for each part based on its current guide.

Parts Inventory Control offers:

- Part number interpretations for each manufacturer.
- Up to 22-character part numbers plus four additional characters as group delimiters.
- Multiple franchises' parts in a single inventory.
- Up to twenty manufacturers identified by separate dealership numbers.
- Separate period closes processed for each manufacturer.
- Stock orders created and processed for one manufacturer at a time.
- Multiple stock orders can be open at the same time.
- Stock orders received from one manufacturer at a time.
- Consolidated inventory reports.
- Target-type parts order processing.
- Value limit selection for parts return analysis.
- Parts Inquiry display.
- Screen inquiry for all parts, including pricing information.
- Multiple inventory transactions.
- Automatic alternates.
- Suggested parts order preparation.
- Manufacturer's price updating.
- Physical inventory.
- Inventory evaluation reports.
- Mini-inventory for periodic spot checks.
- Lost sales report.
- Stock order report.
- Aged back orders.
- Purged back orders.
- A manufacturer's price file that will price non-stock items.

**Parts Invoicing** is designed for parts counter billing and provides:

- Parts handled for multiple franchises.
- Invoicing on selective prices, which can permit flexible pricing.
- Flexible discounting using a discount matrix.
- Flexible taxation using a tax table.
- A maximum of 999 line items per invoice.
- Screen preparation of Parts Invoice.
  - Edits, extends and updates.
  - Creates updated record for general ledger accounting.
- Printing of a Daily Sales Journal.
- Parts-to-Shop transfer.
- Price override analysis.

**Leasing** begins with pre-invoicing (preparation of invoices prior to due date without affecting current month financial balances).

- Billing of active lease units.
- Parking ticket processing.
- Depreciation of unit based upon five depreciation formulas including straight line.
- Interest calculation for each unit and summary totals.
- Ability to list active lease units in order of unit number, customer number, license number, lease expiration date, insurance expiration and monthly profit.
- Comprehensive lease analysis of active units based upon many variables such as wholesale interest, profit and buyout amount.
- Security deposit list.
- Vehicle Register which contains details of lease(s).

**Service Merchandising** provides a data base for help in the management of a service operation. Output includes:

- Service history by vehicle.
- Service recommendations based upon elapsed time, odometer reading and service history.
- Up to 24 different service merchandising letters that can be tailored by the user.
- Service merchandising letters and mailing labels can be prepared based upon mail code (zip code, postal code), make code (make and type of vehicle as defined by user), and service requirements (as indicated by service recommendation file).

**Vehicle Control** allows an update of, and inquiry into, a vehicles-on-hand inventory and vehicles-on-order file. The application can include a user-built manufacturer's master vehicle and option price file, permitting fast price updates and simple maintenance of option details.

Salespersons can determine if a desired vehicle is in stock by submitting criteria such as model, colors and desired options. Units meeting the criteria are displayed on the screen with retail prices of those options. A similar search can be made through the vehicles-on-order file.

Management has the ability to enter a customer's offer along with stock number. The screen displays particulars on the vehicle as well as gross dollars and gross percentage. If the offer is accepted, the particulars of the sale are shown for all subsequent inquiries.

A complete set of stock sheets can be printed on demand.

**Traffic Control** provides methods of identifying floor traffic and showroom performance such as

- Number of prospects by salesperson.
- A repeat, a referral, or the result of personal prospecting.

- First time in or be-back.
- Offer written.
- Sale finalized.

Using the above data, it may be possible to develop some sales statics such as

- Percentage of traffic that returns more than once.
- Percentage of offers written to volume of traffic.
- Percentage of sales closed to offers written.
- Percentage of total traffic from repeat, prospecting and other activities.

**Customer Follow-up** uses the customer master file and a label printing procedure to provide selected mailing lists for promotional campaigns and quality of service questionnaires. A list of parameters can be selected for the labels such as salesperson number, make of vehicle or financed vehicle. An identification code can be entered to identify returned mail, responses or customer interest.

*Follow-up lists* can be produced and sorted by salesperson. *Customer follow-up lists*, identified by salesperson, can be reassigned to a different salesperson. A *regular follow-up list* is provided for vehicles repaired in the dealer's service department. A *service solicitation list* is produced for vehicles that have not been serviced within a specified time (this may be valuable if the Service Merchandising application is not installed).

**Contract Preparation** provides:

- Sales documents:
  - Bank and finance company contracts.
  - Extended warranty.
  - Rust inhibiting.
  - Insurance forms.
- After-sale merchandising.
- Payment calculation, and permits tailoring to customer's payment terms.

**Management Reports** links with the other applications and provides composite analyses. Some of the on-demand reports are:

- A/R priority list (Lists amounts owed in all controls in order of amount and age of receivable).
- Customer credit list—shows credit status as determined by credit department.
- Management report—prints one six-column page for department revenue and one page for department expense and ends with a company summary in this format:
  - Two years ago
  - Last year
  - Forecast this year (current month)
  - Actual this year (current month)
  - Prorated annual forecast

- Year-to-date actual.
- Sales analysis by model number.
- Gross analysis by salesperson.
- Salesperson sales analysis.
- Vehicle stock and order analysis.
- Vehicle on-hand report and analysis.
- Expected trade-in listing.
- Service advisor productivity report.
- Customer service activity.
- Customer service sales analysis.
- Vehicle service history report.
- Service and parts sales analysis.
- Analysis of leased vehicles.
- Expired lease analysis report.

### **Potential Benefits**

Purchasing a computer system involves a large investment for a dealer. The benefits realized through the System/36 and the Auto Dealership Management System enable the dealer to cost justify this investment. Here are some of those benefits:

#### **Benefits to the Dealer**

- Current financial data is available.
- Exception reporting identifies problem areas.
- Comparisons with budget and previous years performance.
- Asset control.
- Customer contact and follow-up simplified.

#### **Benefits to Managers**

- Uses facts to manage instead of trying to discover the facts.
- Current data is available for decision making.
- Better management tools develop better managers.
- More accurate forecasting is provided.
- Objectives and achievements are compared consistently.

#### **Benefits to Staff**

- Increases the richness of the professional's work environment.
- Edits increase employee productivity and the satisfaction of the task environment.
- Good people will respond positively to a well architected application.

#### **Financial Benefits**

- Increased revenue.
- Control of overhead.
- Reduced accounts receivables.
- Staff is responsive to changes in volumes.



- Reduces the cost of taking physical parts inventory.
- Reduces time required by the accounting firm performing audit.
- Ensures that all technician's times are billed.
- Decreases depth and increases breadth of parts inventory.
- Controls vehicle inventory mix and value.
- Improves customer and prospect management.
- Performs accurate commission calculations.
- Lease billings are expedited.
- Control of factory receivables.
- Fast end-of-period closes.

### **Results**

- Improved use of time of both staff and outside professionals.
- Greater efficiency and productivity.
- Improved staff and management skills.
- Increased revenues, reduced costs and increased profits.

## **Batch Terminal Simulator 5668-948 \$9,662 or \$1,030 plus \$394 monthly**

**BTS** is a productivity aid that allows the execution of IMS/VS applications in a batch or TSO environment. This facilitates the testing and debugging of IMS/VS application programs.

### **Highlights**

- A means of accessing DL/1 data bases from a TSO terminal.
- Increased application programmer productivity through comprehensive interaction with an application during testing, producing information that is not available from an online execution.
- Flexible application test periods making them easier to schedule and execute.
- A regression test tool for testing modifications to applications as well as modifications to the system, including new releases.
- A more stable online system in both test and production environments. After applications have been shown to execute properly with the Batch Terminal Simulator, they are much less likely to cause serious problems to the system when they are put into production.
- A natural addition to a program's documentation because it traces all IMS/VS application interaction and prints 3270 input and output formats.

- A tool for training personnel in the internal and external operation of an application.

BTS operations are transparent to the application. No changes to IMS code, control blocks, libraries, or application load modules are necessary. BTS utilizes the IMS/VS ACB or PSB and DBD, and PGM libraries (ACBLIB, PSBLIB, DBDLIB, and PGMLIB) directly or through IMS.

BTS intercepts each application program call to IMS/VS and reports pertinent details related to the call, such as Segment Search Argument, Scratch Pad Area, Key Feedback Area, and I/O Area. It can supply statistics that are useful in uncovering system resource contention problems and in evaluating the impact of new applications on an IMS/VS system. These statistics include the number of each type of DL/1 call made against each PCB. Thus BTS facilitates the testing and debugging on IMS/VS application programs.

### **Machine Requirements**

- At a minimum, BTS requires an IMS/VS batch system machine configuration.
- BTS and application program load modules must reside on direct access storage.
- When used with IMS/VS V1 R3 terminal formatting is supported for the 3290 Information Display Station and the 5550 Multi-Station.
- When 3270 formatting is used, tape or direct access storage is required at execution time for work data sets.
- BTS program modules execute in 128k of virtual storage. This virtual storage is in addition to that required by
  - IMS/VS.
  - The amount of virtual storage BTS has to acquire dynamically by issuing GETMAINS.
  - The amount of virtual storage required by the application programs.

### **Software requirements**

- BTS is written in Assembler Language.
- BTS is designed to work with IMS/VS Version 1 Release 1.5 (5740-xx2) and subsequent releases and modification levels and the operating environments within which that version and release of IMS/VS will operate. (VS1 and MVS)

- When used with IMS/VS V1 R3 in an on-line environment an optional trace for DB2 SQL calls issued by an application program is available.
- Support is available for the Graphical Data Display Manager(GDDM) program product under BTS Full Screen Support (FSS).
- Prerequisites:
  - A current version of IMS/VS DB system
  - The IMS/VS DC feature for the use of the 3270 formatting function
  - An IMS/VS DB/DC system is required to execute BTS in an online environment.
  - Operating System requirements are the same as those required by the corresponding IMS/VS release.
  - The Time Sharing Option (TSO) is required for BTS full screen support of 3270 simulation.
  - SMP4 is required to install the BTS Program Product. No IBM Utilities or Service Aids are required during the execution of BTS. SMP/E can be used in place of SMP4.

## **Business Management Accounting System**

**BMAS** for the System/36 PC provides integrated accounting programs that are applicable to a wide range of industry classifications. They are written in enhanced BASIC to provide the ease of use required for the first time user. There are six modules: General Ledger, Accounts Payable, Accounts Receivable, Payroll, Inventory and Billing.

With all the paperwork handled today, these six applications make good sense. You'll find that they are flexible and able to handle the variety of accounting tasks.

### **General Ledger provides**

- Accurate totals for all account balances.
- Automatic balancing of the ledger.
- Reports showing summary and detail of the ledger.
- A means for transferring transactions from other applications so that transactions don't need to be entered but once.

### **Accounts Payable provides**

- A method for keeping track of open invoices and unapplied credit memos.
- Up to date reports to help you manage your cash flow and take advantage of discounts.
- Purchase and discount totals summarized for each vendor, this year and last year, to help you analyze payables activity.
- An audit trail of purchase and cash disbursement activity.
- A simple means to transfer accounts payable distribution data to the general ledger.

### **Accounts Receivable provides**

- Printed statements and delinquency notices.
- Accurate records for your accountant.
- Reports showing summary and detailed data of receivables.
- A means to transfer data to other departments of your business.

### **Payroll provides**

- An easy means to calculate each employee's gross to net earnings.
- Checks, earnings statements and W-2s.
- An audit trail of payroll activity for your accountant.
- Summary and detail data about the payroll.
- An easy means to transfer payroll distribution data to the general ledger.

### **Inventory Accounting provides**

- Totals showing how many of each item are on hand in as many as three warehouses.
- Cost and price data for each item.
- Notification when an item is under or overstocked.
- Reorder data suggesting reorder point and quantity.
- Sales and profit amounts and ranking of each item in terms of sales and profit amounts.
- Records of inventory transactions for audit purposes.

### **Billing provides**

- Printed invoices.
- Accurate records for your accountant.
- Sales tax totals for up to fifty taxing jurisdictions.
- A means to transfer billing data to other departments.

## Highlights

- Master menu displays all applications installed.
- Applications feature either standalone or co-resident installation with other S/36 BMAS applications.
- Program and procedures required to run the applications will reside in the application library on disk. Master files, interface files, data entry files and work files are disk resident.
- Auditability and control is through five-column journals, sequential journal numbering and inter-application data integrity.
- Program documentation is designed to promote customer self-sufficiency during installation and operation.
- Ease of use is provided by
  - Task selection from a menu.
  - Consistent and similar data entry procedures for all applications.
  - Common file maintenance techniques including user defined field defaults.
  - Use of generally accepted accounting terminology.
- Installation-time tailoring options allow selection of functions and perform file sizing. BRADS file definitions are provided with the applications for selected master files.
- Optional security code by application is available for each company.
- File sharing permits concurrent operations from any workstation signed on to that company.
- A file load facility will load selected large volume master files from multiple workstations.

## Environment

- 256k, 40MB disk, one diskette drive, System Support Program and S/36 PC BASIC.
- Printer with fourteen inch carriage, 132 positions at ten cpi.
- PC, XT or AT directly attached with DOS 3.1 up

## **General Ledger 6201868 \$995**

This application is designed to accomplish the basic accounting functions of posting journal entries to the ledger, generating financial statements, and producing special journals. The programs are based on generally accepted accounting practices. Transactions may be entered directly as journal entries or received as summary entries from the other BMAS applications.

- Calendar driven one to thirteen period support
- User defined fiscal year
- Optionally combined financial statements for multiple companies
- User defined statement formatting
- Special journal capabilities allow the user to tailor journal formats.
- Previous year history maintained for comparative statements.
- Budget and encumbrance accounting supported.
- Annual ledger capability
- Page width option allowing statements on 8-1/2 x 11" paper.
- Future fiscal year posting
- Automatic year-end closing

## **Accounts Payable 6201869 \$995**

This application is designed to assist the user in controlling outflow of cash. Payable items are handled on the accrual basis and vendor analysis reporting allows the user to determine key purchase volumes and discounts taken or lost for the current and previous year. Summarized journal data can be passed to General Ledger.

- Allows one-time vendor checks
- Provides cash discount by percent or amount on invoice total or line items.
- Supports multiple general ledger distribution by vendor.
- Payment selection is by due date and/or vendor or invoice.
- Supports partial payment.
- A user defined excessive check warning is provided.
- Debit memos are available.
- Vendor open-item data is available upon inquiry.
- Manual check are processable.
- The five-column purchase and cash disbursements journals are tailorable.
- A default general ledger distribution is obtainable by vendor.
- Default vendor cash discount percent is an option.
- Check reversals are supported.

## **Accounts Receivable 6201867 \$995**

This application is designed to manage money owed by customers and other debtors. It provides timely data to improve cash flow and reduce bad debts. Invoice transactions can be entered online or received from the Billing application. Cash receipts and adjustment transactions are entered online using a data entry menu. Summarized transaction data is passable to the General Ledger application.

- Supports entry of receipts for accounts other than accounts receivable.
- Open item or balance forward account is a user selection.
- Cash and CODs are supported.
- Invoice partial or overpayment is supported.
- Statement selection is provided.
- Invoices may be postdated.
- Current plus four past due periods supported.
- Optional late charges are assessable by customer.
- Consolidated statements for multibranch companies are supported.
- Cash entry for open item customers is interactive.
- The five-column sales, cash receipts and adjustments journals are tailorable.
- Full screen file load is provided to support loading a large customer master file.

## **Payroll 6201871 \$995**

This application provides the computations and prints checks, statements and supporting reports. Hourly and salary processing is supported. Individual earnings may be taxed for up to three taxing jurisdictions. Transactions can be transferred to the General Ledger application.

- Weekly, biweekly, semimonthly and monthly periods
- Shift differentials as a percent of hourly rate or a fixed amount
- Hourly, exempt and non-exempt salaried employees
- Calculations provided for
  - Gross pay
  - Federal income tax
  - Federal Insurance Contributions Act
  - State and local taxes
  - State disability insurance
  - Federal Unemployment Tax Act
  - Earned Income Credit
  - Net pay
- Taxable and non-taxable adjustments
- Automatic deduction based on
  - percent of taxable gross.
  - rate per hour worked.
  - flat dollar amount per pay period.
- Resetting deductions, i.e. bonds

- Automatic benefits, with optional maxima can be calculated using the same formulas for automatic deductions.
- Separate checks available for vacation and bonus payments
- Workmen's compensation worksheet
- Detailed earnings and deductions shown on earning statement

### **Inventory Accounting 6201870 \$995**

This application produces management reports to support the manager's choice of inventory optimization. They reflect stock movement, onhand positions, sales and cost data. It can process transaction data exported from the Billing application.

- Support for up to three warehouses per item
- Broken case handling
- Processes returns and allowances
- Pricing conversion
- Average and last cost per item maintained
- Stock movement and financial data maintained
- Suggested reorder quantities based on: min/maximum balance, leadtime, pack size and vendor minimum.
- Item inquiry including item master and item balance data.
- Full screen file load to support loading large item master and item balance files

### **Billing 6201866 \$995**

This application provides for the generation of invoices for customer orders already picked and shipped and shipped. Customer and item names, prices and tax data are automatically retrieved from master files during the entry of an invoice. Summary data is exportable to the Accounts Receivable, General Ledger and Inventory applications.

- Post billing
- Selective printing of invoices
- Five standard prices
- Pricing conversion
- Broken case pricing
- Flexible terms and discount processing
- Federal excise tax
- Special charges and comments
- Credit memo support with returns and allowances
- Billing of non-inventory items
- Cash and COS sales
- Invoices for one-time customers
- Up to three sales taxes per invoice, max of fifty taxing bodies
- Optional profit tear strip on invoices
- Tailorable five column sales journal
- Data entry overrides of master file data



- Full screen file load to support loading large customer master and item master files.

## **Business Report/Application Development System**

6201872 \$1,250

With BRADS, the System/36 PC user can develop additional applications and extend existing ones without depending on formal programming. BRADS also contains a spreadsheet as a decision support tool. It is functionally compatible to BRADS on a System/36 with the exception of the interface to Business Graphics Utilities. An operator should have no difficulty moving to the PC version.

BRADS provides a facility to the non-programmer to define files, load them with data, maintain and update them, inquire and generate reports from the file data. Selected S/36 BRADS file definitions are provided with the application. As an application generator, BRADS is well suited to

- Create, maintain and update files
- Develop programs for data entry on the screen
- Retrieve data from files with query
- Create formatted reports using prompts on the screen.

BRADS is suitable for the development of complete applications.

- The facilities used singly or in conjunction with BASIC can create applications that execute under control BRADS.
- Standalone programs generated by BRADS can be added to other BASIC programs to create applications that execute independently or in conjunction with BRADS.
- Addition queries and reports for applications may be produced by

BRADS may be applied to existing data in files including alternate index files created for other BRADS PC applications simply by defining those files with BRADS file definitions. Files may be shared among workstations while executing query, report or copy commands.

As a spreadsheet generator, BRADS may

- Produce forecasts showing expected revenues, operating costs, capital expenditures, taxes and other expenditures.
- Try a variety of what-if iterations on the original data to compare alternative plans.

- Produce reports that display the differences and variances between plans or between plans and an actual case.
- Produce reports showing percentage relationships between rows or between column, e.g. growth from month to month.
- Consolidate or separate plans and evaluate the performance of separate operating entities, e.g. departments, companies, products.
- Combine historical and predictive data to produce numerous combinations of data.

The spreadsheet generator contains a set of operations particularly suited for

Cash requirements and forecasting  
 Commercial loan evaluation  
 Common sizing analysis  
 Comparative analysis  
 Consolidation and separation  
 Investment analysis  
 Material and labor requirements  
 Manpower projection  
 Merger and acquisition analysis  
 Product planning  
 Profit and loss statements  
 Real estate investment

**Environment:** 256k, 40MB disk, diskette drive, 132 print positions and one PC, XT or AT

## Career School Administration System

This is a family of nine integrated System/36 programs designed to assist administrators organize the student record keeping process and reduce redundant administrative activities within post-secondary vocational/career schools. The user interface is interactive.

<b>Student Recruitment</b>	<b>5796-TCD</b>	<b>\$6,000</b>
<b>Registration/Attendance and Grading</b>	<b>5796-TCJ</b>	<b>\$6,750</b>
<b>Guaranteed Student Loan/Pell Grant Tracking</b>	<b>5796-TCG</b>	<b>\$1,500</b>
<b>Graduate Placement</b>	<b>5796-TCC</b>	<b>\$2,250</b>
<b>General Ledger</b>	<b>5796-TCB</b>	<b>\$3,000</b>

Vendor Accounts Payable	5796-TCH	\$1,500
Student Accounts Payable	5796-TCF	\$1,500
Projected/Actual Payment Tracking	5796-TBY	\$1,500
Student Financial Tracking	5796-TCA	\$6,750

### Highlights

- **Student Recruitment** is an interactive sales analysis tool to track the marketing efforts of a school.
- **Registration/Attendance and Grading** provides an organized, efficient method of recording and analyzing student attendance and progress. This application can be used by schools with students who attend one class per day or multiple classes per day.
- **Guaranteed Student Loan/Pell Grant Tracking** helps insure timely processing by tracking GSL loans and grants from student application to receipt of funds.
- **Graduate Placement** is designed to track placement statistics of graduates to allow analysis of the job placement effectiveness of a school.
- **General Ledger** provides comprehensive financial reporting with automatic updating from other applications in the Career School Administration System family.
- **Vendor Accounts Payable** handles the processing of vendor invoices, checks to vendors and check reconciliation and will automatically update General Ledger.
- **Student Accounts Payable** provides the ability to produce student stipend checks and refund checks to the student or the bank.
- **Projected/Actual Payment Tracking** provides a system to track timely payment of tuition by the student, parent, and/or agency.
- **Student Financial Tracking** is designed to track student accounts receivable information, in addition to providing tuition earnings, refund calculations and billing.

Each application has

- Flexible user defined master files.
- Multiple school processing.
- Extensive audit trail.
- Help text for menus.

- Online edit of data entry.

#### Potential Benefits of **Student Recruitment**

- Save dollars by using the advertising analysis. Find out which advertisements bring in the greatest number of enrollments.
- Reduce lost leads that can result from a turnover in sales representatives.
- Current lead lists give sales representatives a followup tool.
- Followup mailings to college leads after the first semester bring in additional students.
- Trends in courses can be analyzed to emphasize areas of interest in future curriculum development.

#### Potential Benefits of **Registration/Attendance and Grading**

- Save clerical time by reduction of redundant activities.
- Exception posting of attendance saves time.
- Transcripts are created automatically.
- Student records meet compliance of federal regulations.
- Student scheduling is simplified using multiple period or single period attendance.
- Helps standardizes your school's record keeping.
- Helps balance employee workload.
- "Satisfactory progress" reporting allows timely evaluation of students status. This gives you the ability to provide timely feedback on progress to students.

#### Potential Benefits of **Guaranteed Student Loan/Pell Grant Tracking**

- Helps eliminate lost revenue for student drops with timely processing of Guaranteed Student Loans.
- Provides compliance information for your program preparation and reviews.
- Help increase cash flow by more timely receipt of funds.
- Provides management focus on funding programs.
- Helps track lender turnaround time.

#### Potential Benefits of **Graduate Placement**

- Provides compliance information preparation with starting salaries, placement statistics and placement followup.

- Provides placement statistics which can be used as a sales tool.
- Graduate placement directory provides a useful tool for high school recruitment.

#### Potential Benefits of **General Ledger**

- Timely financial statements printed on demand.
- Automatic reversal of accruals.
- Multiple period processing using thirteen, twelve or four periods.
- Provides comparison statements.
- Statement consolidation by region, corporation, or school type

#### Potential Benefits of **Vendor Accounts Payable**

- Tracks invoices to insure discounts are taken.
- Option to force discounts
- Saves time in check reconciliation.
- Handles recurring disbursements.
- Provides vendor history for discount negotiation and invoice inquiry.
- Payment selection by vendor, due date, invoice, or partial invoice

#### Potential Benefits of **Student Accounts Payable**

- Produces checks, check register and journal.
- Updates the Student Ledger Card.
- Save time in check reconciliation.
- Handles recurring disbursements.
- Helps insure timely refunds in compliance with regulations.

#### Potential Benefits of **Projected/Actual Payment Tracking**

- Assists in tracking and increasing cash flow.
- Helps identify fund shortages.
- Projects future cash flow.
- Provides followup on students with unpaid balances.

#### Potential Benefits of **Student Financial Tracking**

- Provides automatic billing.
- Automates tuition earnings.
- Automates tuition refunds.
- Calculates tuition refunds based on your refund policy.
- Assists the management of cash flow.
- Updates General Ledger, Student Accounts Receivable card, Projected/Actual Payment Schedule and Guaranteed Student Loan inquiry.

Look for the Career School Administration System family of programs to be featured at the Association of Independent Colleges and Schools convention October 22-25, 1986, in Colorado Springs. Also see it at The American

Vocational Association (AVA) Convention December 5-9 in Dallas and the Southern Association of Colleges and Schools (SACS) Convention in Atlanta, December 7-10.

## **CICSPARS/MVS 5665-355 \$900 monthly**

This is the successor to CICSPARS. It maintains the outstanding features and benefits while incorporating capabilities that exploit the enhancements of the latest version of CICS:

- Online data display including an alert monitor
- Color display and graphics
- User friendly screens and menus
- Expanded batch reporting capabilities
- Support for 31-bit addressing
- Optional support for 3279 and GDDM

Online displays and batch reports provide the current status of key performance indicators so you know how specific resources are being used. The program contains a monitor to alert you if a performance problem is occurring. You can specify indicator thresholds for key variables in the CICS/MVS system.

If a problem occurs it can provide the facilities to help you identify and resolve it, so you can maintain productivity and user satisfaction.

The program assists you in identifying future requirements. It focuses your observation on the effects of increased transactions and variations in resource utilization that may result when users or applications are added. With this data you can incorporate changes without abrupt changes to response time or other specified performance indicators.

**Potential Benefits:** CICSPARS/MVS can provide the data to analyze and tune your system. It can provide the data to account for and distribute the cost of using the system. It increases analytical depth and understanding from a systemwide as well as a specific application. Thus it is a valuable aid in achieving high performance from your capital investment in the CICS system.

## **CMAS/36**

To the construction executive . . .

Your success in business is the result of your ability to solve day-to-day problems that make the difference between profit and loss.

In order to make sound decisions, you must be able to review the current status of any facet of your business. This is precisely where an information processing system makes a major contribution.

Thousands of construction companies are using information processing systems. They provide controls, cost reductions, improved customer service, time- and money-saving advantages, accurate operating data and profitability analyses and projections.

With the introduction of the general purpose digital computer has come the development of new programs to meet the varied needs of contractors. They are designed specifically designed to provide cost-effective solutions to accounting and management information requirements.

This article describes the features and functions of the Construction Management and Accounting System for the IBM System/36. CMAS/36 is based on the highly successful IBM offering to the construction industry, with improvements based on IBM's experience in working with contractors and the implementation of a new standard of computer technology with the IBM System/36. This multiple task workstation system provides the contractor with a flexible and timely solution to his information processing requirements.

CMAS/36 often can be justified through the tangible savings of direct displaceable costs and increased productivity. However, there can be value obtained from timely, accurate management information. The value of an effective management information system is also intangible. Most contractors choose to install a complete system, tailored to their needs, which provides flexibility for future growth and changing requirements. To aid you in determining the applicability of CMAS/36, your IBM marketing representative is prepared to discuss the benefits achieved by contractors with the programs outlined in this article.

### **Built-in control features . . .**

The system/36 and its applications IBM have many built-in features that control the accuracy of the information stored in the System/36 and the access people have to it.

- General controls

A program monitors the sequence of certain procedures used by the operator. This ensures that these procedures are executed in the proper order.

All transactions are edited for validity. The operator must correct errors before files can be updated.

Through a set of tailoring questions, you specify the sizes of your master files (number of vendors, number of employees, and so on). If a master file becomes nearly full (because you add new vendors or new employees), the application displays a message to notify you. You can then enlarge the master file by giving new answers to the appropriate questions.

- Accounting controls and audit trails

The applications generate control totals for each batch of information and show them on the display screen. The operator can balance these totals to manually-derived totals.

As the batch of data is processed by the applications, the same control totals are derived at each step for balancing back to the original control totals.

After the application is installed, financial data in the files cannot be accessed or modified by the file maintenance programs without proper security clearance.

Only valid transaction entries that leave audit trails can be used. Thus, your financial data is secure.

- System security

Because workstations increase the number of people that have access to your system, you may want to restrict access to your information. You can do this in the following ways:

- Order a keylock feature on your display stations. This allows you to lock a display station so that no one can use it without a key.
- Use the SSP-provided password security system, which restricts access to display stations.
- Use the password security system that is provided with the application. This restricts access to certain procedures and functions within an application.

- Backup and restart procedures

To protect your installation against accounting and system errors that can occur in even the most carefully managed operation, a set of programs and procedures is provided to assist you. These procedures, implemented at your option, include:



- Periodically saving your master files on diskette (backup)
- Retaining all transactions on disk between saves of master files

Should you encounter system problems, such as a power failure, there is a procedure that analyzes the status of your system to determine whether you can safely restart any programs that were being run when the problem occurred. If restart cannot take place, the system tells the operator what steps to take.

Should you need to reprocess transactions, you can load the master files that you had saved on diskette, and reprocess the transactions without rekeying them.

**Payroll and Labor Costing** improves productivity by supplying timely labor cost information.

This hourly/salaried/distributed payroll provides for regular, overtime, premium, vacation, holiday, sick, and travel pay (taxable and nontaxable). It may be run weekly, biweekly, semimonthly, or monthly. Exception hours provide for time-and-a-half, double-time, double-time-and-a-half, and triple-time compensation. Rate selection may be standard (by employee), selected by craft (job class code), or entered as an exception rate by the work station operator.

The payroll application handles taxable and nontaxable adjustments, bonus pay, and employer-paid union benefits (taxable and nontaxable).

After the gross earnings are calculated, deductions are automatically taken to reach net pay. In addition to calculating federal and FICA taxes, standard tax algorithms calculate state income taxes based on table data you provide. Local taxes may also fit the standard algorithms. Miscellaneous deductions can be taken by percent, fixed amount, or hourly rate on a continuous basis or until a fixed upper limit is reached. The frequency of when the deduction is to be taken can be weekly, semimonthly (the first and third week or the second and fourth week of the month), or monthly (with week 1, 2, 3, or 4 specified as to when the deduction is to occur). Employee-paid union deductions can be taken by a percent of gross earnings or by an hourly rate.

A flexible union calculation and reporting approach is designed to address most union reporting requirements. The CMAS/36 Payroll and Labor Costing application provides three reports to aid the contractor in controlling and reporting deductions and benefits to each of the unions representing the contractor's labor force. These include a weekly stamp report and two monthly union reports; one showing deductions and benefits for each employee and the other showing employees within each deduction type. The two monthly reports can be produced with the detail information summarized by employee or by deduction/benefit type. Union benefits can also be included in the employee's paycheck net amount.

The application also handles payoffs (hand-written checks) with special routines to help ensure that an employee is not over or under paid during the normal payroll cycle as a result of being laid off and possibly rehired in the same week.

An additional feature of the CMAS/36 Payroll application is the production of labor cost reports as a by-product of the payroll input. You may define the cost breakdown as summarized or detailed as required. Costs may be itemized by job, pay item, cost code, cost type, and job classification within a given company. Costing reports may be tailored via run-time options that, for example, specify detail or summarization, certain jobs, priority records, or items with overages only. To help in setting up new jobs in the Labor Cost file, a standard Labor Cost file is provided for commonly constructed plans, such as a house plan that can be created once and then copied into the Labor Cost file when the house is to be built. Modifications can be made to the estimated costs and quantities as they are transferred to the Labor Cost file.

**The CMAS/36 Job Costing** application automatically incorporates the labor costs maintained by the payroll application if both applications are installed.

Another feature of the CMAS/36 Payroll and Labor Costing application is the ability to charge labor hours expended repairing equipment to the piece of equipment rather than charging the job. An Equipment Cost Report is a by-product of this distribution of labor. In addition, when the Accounts Payable application is installed, equipment repair charges and replacement parts processed through Accounts Payable can be automatically costed to a given piece of equipment.

Optional features reduce the time and improve the accuracy of calculating and distributing employer-paid burden--union benefits, FICA, FUTA (FUI), SUTA (SUI), and workmen's compensation premiums. You can choose between several methods commonly used to automatically calculate workmen's compensation. The results of these calculations are automatically reported and distributed to the labor cost file and the appropriate general ledger accounts. This same holds true for employer-paid union benefits, FICA, FUTA, and SUTA. You should review your particular requirements with your IBM marketing representative to determine the applicability of the methods provided.

## **Features**

- Workstation data entry with immediate editing for errors
- Reporting and updating by company for up to 99 companies, within the volume capacity of the System/36
- Automatically passes data to the General Ledger application, Revenue Accounting application and the Job Costing application, when they are installed

- Processes hourly, salaried, weekly, biweekly, semimonthly, and monthly pay
- Processes regular hours, time-and-a-half hours, double-time hours, double-time-and-a-half hours, triple-time hours, and negative hours (for correction)
- Processes individual rates, special rates, taxable adjustments, and non-taxable adjustments
- Takes care of miscellaneous deductions, whether they are fixed amounts, based on hourly rates, or percentages, while recognizing upper limits. Such deductions can be scheduled as one-time only or automatic every week, once a month, or twice a month.
- Handles handwritten paychecks (payoffs)
- Handles union deductions and reports them by union
- Calculates and reports statutory deductions such as federal income tax and FICA. Also handles state income taxes, local income taxes, and state disability insurance, from tables you supply.
- Writes checks in one of two standard check formats with an earnings statement stub. Optionally, reconciles canceled checks.
- Includes labor cost management reports reflecting labor costs by job, pay item, cost code, cost type, and job classification
- Prints required government reports (941a and W-2 forms)
- Input and batch editing by 3740 Data Entry System
- Prints optional equipment cost reports
- Permits inquiry into the labor cost file
- Optionally, distributes employer-paid burden
- Optionally, calculates and reports workmen's compensation premiums

## **Reports**

**The Current Hours Proof**, which consolidates all hours by employee, is the first step in completing the payroll cycle and printing the paychecks. The hours worked by each employee are totaled and printed. This report is used to check and reconcile the payroll input prior to the calculation of the payroll. Time spent at this point saves time correcting errors later.

**The Payroll Register** shows, by employee, the gross pay, all system-calculated taxes, miscellaneous and union deductions, and net pay. This one document allows most payroll questions to be answered easily.

**The Payroll Check** and check stub contain all pertinent information about the employee's pay.

**The Year-To-Date/Quarter-To-Date Earnings Register** lists all employees or only those active in this payroll period. The register prints total year-to-date and quarter-to-date gross amounts and amounts subject to federal and FICA taxes.

**The State and Local Register** identifies tax withholdings for each employee for the year, quarter, and pay period.

**The Employee Deduction Register** lists all deductions for each employee. Detailed on the report are all deductions taken for this payroll period and deductions that were not taken because they would have caused net pay to go negative. One-time miscellaneous deductions are also printed on the report.

**The Labor Cost Register** shows the labor distribution broken down by job and cost code.

**The Payroll Distribution Journal** shows the distribution of payroll information to the general ledger. If the CMAS/36 General Ledger application is installed, the distribution is automatic.

**The Job/Equipment/Employee Report** details the hours and associated pay for each employee who worked within each job cost code or equipment code category.

**The Workmen's Compensation and Insurance Report** shows the actual premiums based on earnings or hours subject to workmen's compensation, property damage, and bodily injury, by employee within insurance policy within state worked. This report can be used by many firms to substantiate (for their insurance auditors) what premiums are due, and thus avoid excessive payments while the job is in progress.

**The Certified Payroll Register** (federal payroll report) is automatically prepared for jobs requiring federal reporting.

**The Field Report Worksheet** is a turnaround document used by field personnel to report quantities put-in-place or percentage completed during the pay period.

**The Labor Cost Report** highlights the hours and dollars charged to the job in the cost breakdown you have selected.

**The Labor Cost Report by Period** shows the hours and costs distributed to each job cost category within a job this week, period, or job-to-date.

Estimates, including change orders, and projected remaining hours and costs are also shown.

**The Labor Cost Report by Percent Reported** projects hours and costs based on current work productivity. The program uses percent complete as reported from the field or, if the percentage is not available, it calculates the percent complete.

**The Labor Cost Report by Quantity/Percent Reported** shows projected hours and costs based on quantities put-in-place (units) or percent complete as reported on the field report worksheet.

**The Labor Productivity Report** utilizes data from the field report worksheet to calculate unit cost-to-date. This report also shows projected over or under figures by cost category.

**The Union Stamp Register** is printed by employee for those union deductions requiring payment in stamps.

**The Local Union Report by Employee** shows wages and deductions for the time cards being processed. The report can be printed in summary (one line per deduction type) or in detail (one line per time card, per deduction type).

**The Local Union Report by Deduction Type** lists the wages and deductions for each employee in sequence by deduction type. The report can be printed in summary (one line per deduction type) or in detail (one line per time card, per deduction type).

**The Check Reconciliation Register** aids the operator in reconciling checks and determining whether all entries are correct. This optional register can be the permanent accounting document listing the current status of all checks.

The 941As are printed using government preprinted forms.

The W-2s are printed for federal, state, and local income taxes, using government preprinted forms.

**Accounts Payable** helps you maximize your cash position.

This application handles open payables, cash disbursements, and subcontract accounting. Invoices and credit memos can contain multiple detail lines, each of which can be distributed by general-ledger account number, job, cost code, and cost type, as well as by subcontract. Entries can be for standard or one-time vendors and can be open, prepaid, or anticipated. Credit memos can be entered manually by work station operators or initiated automatically based on previously entered invoices. Discounts can be a set amount or a percent of the gross amount. Retention payables are distributed to the subcontract status file for tracking and control.

A Purchase Journal provides an audit trail for cost transactions being entered into the general ledger system and into the open payables file.

An Open Payables Report is printed in due-date, vendor, or job sequence. This turnaround document indicates payment by date, vendor, or invoice, including partial payments, for cash disbursements. Invoices can be entered or placed in hold status to prevent payment of invoices in question.

A Subcontract Status Report shows the status of all subcontracts by job or by vendor.

A Cash Requirements Report helps the controller ensure that sufficient funds are available and that proper invoices were selected before beginning the check-writing procedure.

The Cash Disbursements journal provides an audit trail for its transactions being entered into the General Ledger application and acts as the Check Register.

Check writing and optional reconciliation are provided.

A vendor Analysis Report indicates key business volumes and discounts lost and taken for the current year.

- Workstation data entry with immediate editing for errors
- Reporting and updating by company for up to 99 companies, within the capacity of the System/36
- Accepts prepaid invoices, miscellaneous invoices and credit memos with multiple detail lines, and partial payments
- Anticipated payables can be entered to reflect job costs for which invoices have not been received. The automatic credit memo feature backs out an estimated payable when the actual invoice is received
- Reports open payables by due date and by vendor sequences for selection of payments
- Selection for payment can be done by:
  - Invoice
  - Due date
  - Job
  - Vendor
- Prints a Cash Requirements Report, listing items selected for payment. These items can be reviewed and paid in full, partially paid, or bypassed. Questionable items can be placed in a hold status
- Warns against exceeding maximum check amount

- Writes checks and includes a standard check format with a remittance advice stub. Amount of the check can be printed in words for check protection
- Handles remittance advice overflow
- Reconciles canceled checks
- Prints a Vendor Analysis Report to indicate dollar volumes
- Inquiry into the accounts payable files to see total payables due on specified due dates or for a specific job or vendor
- Recurring expenses can be retained on diskette and entered into the system when desired
- Automatically transfers data to the General Ledger, Job Costing, and Revenue Accounting applications, when they are installed
- Input and batch editing by diskettes prepared on a 3740 Data Entry System
- Subcontract status accounting:
  - Accounts for retention payables
  - Shows status of subcontracts by vendor and job
  - Nets change orders against original contract, either as summary or by specific detail

## Reports

**The Purchases Journal** details all purchase distributions being transferred to general ledger and credits the accounts payable general ledger number with the total of the purchases. It is at this time that the application actually adds the invoices and credit memos to the open payables file. In addition to posting to the general ledger, Accounts Payable also posts the costs to the appropriate job costing records, when Job Costing is installed.

**The Subcontract Status Posting Register** shows the total gross amount, retention amount, and retained taxes of all invoices to be posted to existing subcontracts.

**The Open Payables Listing by Due Date** shows invoices in chronological sequence by due date. Payment selection cues, located to the right of each invoice line, can be used as a checkoff list by the person who reviews the list.

**The Open Payables Listing by Vendor** lists invoices in sequence by vendor or due date. You can use the listing to determine invoices to be paid.

**The Cash Requirements Report**, printed after payments are selected, tells how much is needed to cover the checks. Notations can be made directly on the report for any changes or negations of specific invoices.

**The Cash Disbursement Journal** indicates each invoice being paid and invoices that have been prepaid. If General Ledger is installed, records are transferred to General Ledger. Normally, these entries are debits to accounts payable general ledger accounts and credits to the cash-in-bank general ledger account. If discounts are being taken, credits are made to the discount general ledger account.

**The Accounts Payable Checks** are printed and a record is added to a check reconciliation file to aid in balancing a bank statement. As each check is printed, a statement of remittance is also prepared that lists all invoices paid by this check. If the number of invoices being paid exceeds the number that can be printed on one remittance advice stub, the excess invoices are stored for later printing on a continuous-form remittance advice stub. This means the checks do not have to be voided by the system when more invoices are being paid than can fit on a remittance advice stub attached to the check.

**The Temporary General Ledger Listing** shows distribution by general ledger account number. It is printed if the General Ledger application is not installed. If General Ledger is installed, these distributions are printed through that application rather than Accounts Payable.

**The Check Reconciliation Register** aids the operator in reconciling checks and determining whether all entries are correct. This register is the permanent accounting document listing the current status of all checks.

**The Vendor Analysis Report** lists, for each vendor, the total dollar amount paid to the vendor, and discounts taken and discounts lost this year.

**The Aged Open Payables Report** shows the open payables due on each of four aging dates that you supply. The report can show each invoice with totals by vendor, or it can show the vendor totals only.

**The Subcontract Status Report** shows the status of all subcontracts by vendor or by job. The report can show each detail transaction affecting a subcontract. Information shown includes the subcontract amount, amount paid and retained to-date, change orders, and the current balance. Most questions regarding subcontract status can be answered with this report.

### **Committed Cost/Cost History Feature**

This optional feature to Accounts Payable adds the capability to enter and track purchase order activity and pass the information to the Accounts Payable data entry function when the invoice is received. It provides an analysis of future cash requirements for committed purchase orders. Inquiries can be made into the Open Purchase Order file to check the status



of any purchase order or purchase order line item. Reports can be run in Purchase Order, Vendor or Job sequence.

Also, this optional feature (CC/CH) will allow you to include committed costs on the appropriate Job Costing Reports if the Job Costing application (5726-M66) is installed.

- Allow the contractor to track outstanding purchase orders by line item
- Aid the contractor in avoiding double billing of line items by vendors
- Provide an analysis of future cash requirements for committed purchase orders
- Inquiry into Open Purchase Order file to check the status of any purchase order line item
- Optionally include committed costs on applicable Job Costing reports
- Reduce key strokes in Accounts Payable Invoice Entry by selecting line items from the Open Purchase Order file and passing them to the Open Payables file when the invoice is received
- Save selected job detail records for the life of the project in order to analyze cost overruns and contested items
- 3740 Diskette Data Entry is not supported

## Reports

**A Purchase Order Register** shows you all the purchase orders added to the Open Purchase Order file. The register contains vendor name and number, a description of the line items ordered, the job cost distribution information (if applicable), quantities ordered, scheduled or requested delivery date, and the committed dollars.

**An Open Purchase Order Report** by job, vendor or scheduled date is available which will show you the open items in your purchase order file along with the dollars already invoiced, new dollars remaining, quantities received and quantities remaining to be delivered. You determine the sequence when you request the report.

**An Aged Purchase Order Report** lists a summary of all open purchase orders by the aged period dates which you select when you request the report.

**A Purchase Order Status Report** will list all open and closed items in your purchase order file. It will list all invoices received from the vendor and show the dollars invoiced and the quantities received on the order.

**Job Costing** accurately depicts project costs in a timely manner.

This application provides multiple management reports for the contractor. Important information on costs to date, comparisons of actual to estimated costs, unit cost changes, quantities in place and percentage completed to date by job, costs compared to billings to date, and cash flows by job and work item--all of this information is available on demand. Many of the reports offer options which allow you to specify the level of detail in the reports. For example, you may specify that a job productivity report be prepared for a specific job, or for designated priority jobs, or to provide summary information only. In addition, you can use a work station to review summarized or specific job costs, without waiting for a printed copy of the information to be produced.

This flexibility allows you to choose the reports and the level of detail which best suits the company's unique requirements, and to change them as your requirements change.

The CMAS/36 Job Costing application can function independently or be integrated with other applications of CMAS/36. The Payroll and Accounts Payable applications automatically provide the labor, material, and subcontract expenses for the job cost reports, if originated through these applications.

The Cost History file, which is available when you have the Committed Cost/Cost History optional feature installed, allows you to capture the detailed expense and income records of any job. You can then print out a detailed report which can cover any period of time, up to and including the entire length of the job. See Accounts Payable for more information on this optional feature.

The field report worksheet (identical to the one supplied with the Payroll application) serves as a turnaround document for field personnel to report progress in quantities put-in-place or percentage completed. Additionally, this worksheet reports to the field on its progress to date.

The ability to accurately depict project costs in a timely manner is one of the most important features of CMAS/36. Although the requirements for cost information differ from contractor to contractor, and frequently change as the contractor's business changes, the Job Costing application allows contractors to choose the reports which meet their requirements at any given time.

There are three levels of reports within the Job Costing application: cost accounting, cost analysis and profit projection.

### **Cost Accounting**

Cost accounting provides basic cost reports which account for costs incurred and billings to date. The Job-Cost-to-Date Report and the Job Cost Status Report contain basic cost accounting data. These reports are used by contractors who neither need nor desire field reporting or profit projection in their management reports. Many contractors who install a job

costing application begin at this level and add cost analysis and profit projection levels as their needs dictate.

The CMAS/36 Job Costing application has two different ways of accessing the current costs for the Job-Cost-to-Date Report. One method reflects all costs posted to a job from the moment those costs are journalized and is mainly used as up-to-the-minute information on job progress. The other method reflects the job costs as of the previous accounting month-end closing to the general ledger, plus any period-to-date information you ask for. This report is used by the controller or the CPA to tie out the job cost subsidiary to the general ledger. The first method is referred to as a management report, while the second is referred to as an accounting report. You have the option of specifying which type of report you want when you request the Job-Cost-to-Date Report.

### **Cost Analysis**

By reporting weekly progress on quantities put-in-place and percentage of completion, the application enables you to analyze job costs. The Job Costing application includes a field report worksheet used as a turnaround document to the field to report this information. Using this information (cost-to-date, and estimated cost), the application provides a Job Productivity Report, Job Cost Analysis by Quantity/ Percentage Completed Report, and a Job Cost Analysis Summarized by Job Report.

These reports enable the contractor to determine projected total cost, unit cost, and productivity based upon units per hour. With cost analysis reports, the contractor not only accounts for job costs as they are incurred, but he is also able to control costs better if they get out of hand. Profit projection

Cash flow is of particular significance to the construction industry. The ability to report cash flow by job and for all jobs is an important feature of CMAS/36. The profit projection costing level uses percentage completed as reported from the field or a calculated by using actual cost as a percentage of estimated cost to project gross profit at job end. The Job Cash Flow Analysis Report shows the projected gross profit (or loss) for each job and totals the projections to summarize cash flow for the contractor.

- Workstation data entry and immediate editing for errors
- 40 Data Entry System diskette input and batch editing
- Reporting and updating by company for up to 99 companies; within the capacity of the System/36
- Automatically accepts transactions processed through the Payroll, Revenue Accounting, and Accounts Payable applications when they are installed

- Automatically posts entries to the General Ledger application when installed
- Special change order file permits up to 99 change orders per cost item within a job to be maintained and reported. The contractor can specify that change orders be shown in detail or netted against original estimate fields on any of the detailed cost reports available from the Job Costing application
- Costs reflected as of month-end closing or as of last posting from any CMAS/36 application affecting job costs
- Report options allow the contractor to specify the level of detail desired in the reports
- A standard costing file can be created to assist in setting up new jobs in the costing files
- A time and material indicator provision for cost items that do not have estimates. This will suppress cost projections and percentage calculations for those cost records so indicated
- Cost distributed by company, job, pay item, cost code, and cost type with up to 99 change orders per distribution
- Complete audit trail of all transactions affecting job costs and general ledger accounts
- Inquiry into the job cost file permits displaying of current costs at the work station without having to wait for printed output

## Reports

**The Job Cost Proof** lists all transactions entered since the preceding Job Cost Journal was run. It is the final check to verify balancing and to verify that all the transactions are correct.

**The Job Cost Journal** shows all the transactions affecting job costs that were not entered through the CMAS/36 Payroll or Accounts Payable applications. It includes all job cost journal transactions entered since the last journal was printed.

**The Job-Cost-to-Date Report** shows the current status of cost by week, designated period, year, and job to-date. Projected cost-remaining forecasts indicate whether estimated costs will be exceeded.

**The Field Report Worksheet** reflects job completion to-date. It is used as a turnaround document by field personnel to report quantities put-in-place and/or percentages completed.

**The Job Cost Analysis by Quantity/Percent Reported Report** helps you to determine the projected cost for each cost code, based on current work rate. It highlights possible cost overruns.

**The Job Productivity Report** measures actual item cost and quantities against the estimated cost and quantities, calculating to-date and projected cost over or under on each work item. It highlights changes, trends, and cost per unit.

**The Job Cost Analysis Summarized by Job Report** provides a one-line summary of the current cost of each job currently underway.

**The Job Cost Status Report** summarizes the billings by job and calculates whether the billings exceed the cost--or the cost exceeds the billings.

**The Job Cash Flow Report** shows cost and billing items for each job. Projected profit or loss is shown for each cost code (if requested), each pay item, each job, and each company.

**General Ledger** helps you monitor profitability and financial progress.

This application combines transactions affecting the financial status of your company during each accounting period. The transactions can be entered directly by an operator as general journal entries any time during the course of the period, or they can be entered automatically from the Accounts Payable, Revenue Accounting, Payroll, and Job Costing applications.

After all entries have been made for an accounting period, the Trial Balance and Financial Statement Worksheet help you make certain that the data is in balance before you proceed to the closing.

After the closing entries have been made, the actual closing is performed. A Statement of Income and a Balance Sheet are standard reports that show your current financial data as compared to either budget or historical information. You define the format of these reports.

- Workstation data entry with immediate editing for errors
- Reporting and updating by company for up to 99 companies; within the capacity of the System/36
- Can automatically accept transactions from the Accounts Payable, Payroll, Revenue Accounting, and Job Costing applications, when they are installed
- For each company, prints the Balance Sheet and Statement of Income in any of 99 formats
- Double-entry accounting throughout

- Statement of Income compares this year to last year or to budget
- Balance Sheet compares this year to last year or to budget
- Journal reference numbering system provides clear audit trails for all transactions from source of entry to period-end closing
- Accounting year established by each company's choice of first fiscal month
- Account balances stored for twelve accounting months
- Recurring journal entries can be retained on diskette and entered into the system each period
- Multiple financial-statement formats can be created for each company
- Transactions can be entered by 3740 Data Entry Systems diskettes

## Reports

**The General Ledger Proof** lists all transactions entered since the preceding General Journal was run. It is the final check to verify balancing and that all transactions are correct.

**The General Journal** shows all miscellaneous general ledger transactions not entered through any other application. It includes all general journal transactions entered since the last General Journal was printed.

**The General Ledger Monthly Audit Listing** helps you examine out-of-balance or other questionable conditions on the Financial Statement Worksheet. Normally, this audit listing is not printed unless you need to investigate potential errors. This audit listing shows all general ledger transactions entered during the month in journal reference number sequence.

**The Financial Statement Worksheet** is the first step in the general ledger monthly cycle. Each general ledger account is listed, and its balance printed. The worksheet, an accountant's working paper, is used to prevent errors in preparing management reports.

**The Monthly General Ledger Trial Balance** shows all detailed transactions in general-ledger-account-number sequence for the period. Included are account balances and entries distributing the net profit (loss). Because it is the official accounting document, it is retained for the year-end audit. It is an important document in the audit trail. The journal reference number identifies each transaction by its book of original entry.

**The General Ledger Listing** prints one line per general ledger account, summarizes the transactions for the month, and prints the month and year-to-date balances. If you use comparative reporting, this information is

also printed on the General Ledger Listing. Budgeted monthly totals and budgeted year-to-date totals are printed to provide a comparison with actuals.

This provides an important cash-management yardstick. The previous year-to-date totals can also be printed to compare with the current year-to-date totals.

**The Statement of Income** shows income, expenses, and the net income (loss) for the fiscal period. (It is prepared from information summarized on the Financial Statement Worksheet). The Statement of Income is prepared in the format you specify. It can be prepared as a comparative statement comparing this period's figures either to budgeted figures or to last year's figures for the same period. This comparison provides meaningful information in measuring the progress of your company.

**The Balance Sheet** can be printed monthly, quarterly, annually, or on demand. It lists all assets, liabilities, and capital as of a specific date. Printed according to the format you specify, the Balance Sheet can be used to compare current-to-budget or current figures to last year's figures. This gives an added perspective to the Balance Sheet and allows you and your financial advisors to draw meaningful conclusions.

**The Fiscal Year-End Audit Listing** lets you compare account totals and report totals with totals for any included months. This information helps you answer questions regarding account balances before you produce year-end financial statements.

**Revenue Accounting** helps keep track of revenue and financial status of job.

The management of accounts receivable is important to almost all companies, regardless of industry. But most contractors have an additional need that relates to receivables--the tracking of revenue and financial status by job.

The CMAS/36 Revenue Accounting application helps you manage open receivables, track revenue against contracts, and helps present a picture of the overall financial status for each job. Classical accounts receivable aids such as customer statements, delinquency notices, credit limit flags, and late charge procedures are also available for companies who have non-contract as well as contract receivables.

A Sales Journal shows all the information entered by the operator during invoice entry. It shows postings made to the Contract Status file, Open Receivables, and the billing records in the Job Cost file. You can trace all postings made by the application, back to this document.

A Cash Receipts Journal shows all postings of cash entered by the operator. The journal reflects the updates made to the Open Receivables file and the Contract Status file. You can trace all cash receipts back to this document.

A Contract Status Report helps management track billings, cash receipts, and retention amounts against a contract for a given job.

A Summary Job Financial Report summarizes the expenses, cash outlays, billings, and cash receipts for a job to help you understand and manage your cash flow on a job.

A Progress Billing Report helps to establish that portion of a contract which you can bill to the owner, based on the progress of the job. This is a key report which sets CMAS/36 Revenue Accounting apart from a manual Accounts Receivable application.

A Retention Due Listing helps you determine the amount of retention on a contract that can be billed as of a given date.

- Workstation data entry with immediate editing for errors
- Reporting and updating by company for up to 99 companies, within the capacity of the System/36
- Accepts invoices with multiple detail lines which updates the billing records within a job
- Reports open receivables by customer, job, or invoice number
- Cash receipts can be entered by customer, job, or invoice number
- Inquiries can be made into the Open Receivables, Contract Status, and Customer Master files
- Automatically transfers data to the Job Costing application, and to the General Ledger application, if installed

## Reports

**The Sales Journal** details all billing distributions being transferred to general ledger and debits the Open Receivables General Ledger number with the total billings. It is at this time that the application actually adds the invoices to the Open Receivables file. In addition to posting to the General Ledger, Revenue Accounting also posts the income to the appropriate Job Costing records via the Temporary General Ledger file.

**The Contract Status Report** shows the total billings, retention billed and unbilled, and cash receipts posted to existing contracts.

**The Open Receivables Aged Trial Balance** shows which customers owe money, how much they owe, and the age of each invoice. By using an "as of date" that coincides with the general ledger closing date, you can print a report which "proves" the accounts receivable balance in the general ledger.



**The Customer Open Receivables Analysis** lets you get very specific about what you want to see on the report. It can show one or all companies, all customers, delinquent customers, or up to ten specific customers.

**Job Open Receivables Analysis** includes open receivables for job related invoices only. It can show one or all companies, all jobs or up to ten specific jobs, summary, or detailed invoices.

**Non-Jo Open Receivables Analysis** includes non-job related open receivables. It can show one or all companies, all non-job invoices or specific types of non-job invoices (cash sales, employee, material, equipment), detailed, or summary information.

**The Retention Due Listing** helps you determine the amount of retention on a contract that you can bill as of a given date. The listing can be for one or all companies, have a "from and to" date range to cover the retention that you consider billable, on all jobs or up to 10 specific jobs.

**The Summary Job Financial Position Report** gathers the expense, cash outlays, billings, and cash receipts for a job, into one place, to help you understand and manage your cash flow on a job. The report compares "cost to date" to billings, based on percentage complete, to determine if the job is over- or under-billed. It also shows you a summary of open payables and open receivables for a job, so you can analyze potential cash flow problems.

## **Extension Programs**

IBM has announced the following applications to aid the contractor in managing.

**The Construction Inventory module** (5796-ZPP \$3,000) helps contractors to manage their inventory investment. One of the most essential elements of a contractor's inventory is having the correct items on the job site at the time they are required to be put-in-place. This comprehensive set of programs allows the contractor to monitor each facet of this process from allowing sufficient lead-times when ordering items to marking up the cost of these items when they are moved from the warehouse to the job site.

This feature allows the contractor to take full advantage of single-source entry of costing and accounting information through automatic update of Job Costing and General Ledger modules, if they are installed. Multiple company as well as multiple location is supported.

**The Time and Material Billing module** (5796-ZPK \$3,500) helps contractors or architects to properly bill their clients for services. An actual invoice is produced and this information is transferred to Construction Management Accounting System (CMAS) Revenue Accounting for tracking in the Accounts Receivable System. Costing information is maintained in the Time

and Material Billing module from Payroll, Accounts Payable, and Job Costing if all modules are installed.

This program allows the user to create invoices for time and material jobs as well as service contract work or jobs. Labor and equipment hours may be automatically extracted from the CMAS Payroll and Labor Costing module. The user can use multiple options of markup of hours with company or job default values. Material or subcontract cost may be automatically received from the Accounts Payable and Job Costing modules. Flexibility is designed in the module to allow for many methods and philosophies of billing.

Refer to CMAS in Section One for a listing of the members of this family.

## **COBOL Structuring Facility 5668-786 \$125,000 or \$12,500 monthly**

**COBOL/SF** is a new software approach that automatically re-engineers a COBOL program of unstructured monolithic code into structured, modularized, modern code which is easier to understand, audit and modify. Programmers working with the new program have increased productivity when working with the new clear single entry, single exit top-down code.

COBOL/SF uses the new COBOL structuring facilities introduced with the 1985 ANSI COBOL standard.

### **The Problem**

Data processing in the United States depends on the huge national inventory of operational programs which run to billions of lines of code supported by specifications, design documents, user guides and operational manuals. This enormous capital investment is preserved and enhanced by maintenance.

Software maintenance is a major problem for business, industry and government today. Some enterprises report over seventy percent of programming resources are devoted to maintenance and fifty percent is not uncommon. This commitment of programmers means that new software development runs a poor second to efforts to keep existing software on the air. Unfortunately, little has been offered that increases the productivity and quality of software maintenance. The trial and error process is the predominant approach when maintaining code. Two mutually reinforcing reasons for this are fewer than ten percent of the national inventory of programs are structured and the majority of programmers are unfamiliar with the valuable patterns of recognition and analysis which structured programs offer the maintenance programmer.

## **The Solution**

COBOL/SF offers an alternative to the scenario described above. The COBOL Structuring Facility re-engineers the spaghetti logic which is common in unstructured programs into modern top-down, single-entry, single-exit code. It turns monolithic monster programs into easy to follow modularized programs. It identifies endless loops, unreachable 'dead' code and program 'time bombs' where control flow modifications cause abnormal exits during execution of the program. The resulting code is much easier to maintain thus raising the productivity of the programmers while lowering the job frustrations raised by attempting to modify code that is beyond understanding. The best news is that COBOL/SF can structure any VS COBOL II program which can compile error free automatically without requiring programmer assistance. COBOL/SF is also there to reprocess any program after maintenance to insure that it remains modifiable forever. The net effect is that the cost of maintaining a line of code is reduced over the life of the program. Estimates have been made that the reduction can be as high as fifty percent.

## **Highlights**

- The solution to a pervasive problem of the DP professional—program maintenance absorbing an increasing portion of development resource.
- Gives the buyer 'free programmers' by reducing current maintenance time and freeing some staff for new development.
- Re-engineers spaghetti logic into modern top-down single entry, single exit structured programming code.
- A tool to assist management in keeping the program inventory from becoming a maintenance nightmare.
- The restructured code is cheaper and easier to maintain.
- Auditable programs can be produced from incomprehensible programs that can satisfy the financial and security requirements of the business.
- Extends the life of existing COBOL programs.
- Logical modules are identified and can form the basis for reusable code in future development.
- Identifies unreachable code, endless loops and program errors.
- Provides new information such as the control flow report with which to document and maintain programs.
- Reduces maintenance programmer frustration.

- Output can be re-processed after maintenance.
- Structured programming education for programmers. Old code is converted to structures and they validate new development.
- Reduce redevelopment costs of large programs by allowing identification and isolation of the code that must be modified while preserving large parts of the code ready for integration and implementation.

### **How it Works**

Using artificial intelligence techniques, the COBOL Structuring Facility processes VS COBOL II compilable programs in two modes. The Analysis mode can report if any logic knots exist in the processed program that the programmer may review, in order to reduce complexity of the final structured code. An investment of one hour to recode identified logic knots which are reported with the detail necessary to remove them will be repaid by an improved final program.

The Restructure mode creates the same reports as the Analysis mode but also produces the structured code which can be inputted to the VS COBOL II compiler. The user can process a large set of maintenance problems from his inventory of programs over a relatively short period of time. The maintenance staff soon can be working with clear, easy to use structured programs and so have an environment that will promote high levels of productivity.

Management can enforce the restructuring of new maintenance and development as a means of maintaining code at the installation standard. The resulting code always would be structured and modularized by the same 'programmer', so that stylistically, the resulting programs would appear designed by one chief programmer. This doesn't place any restriction on the actual programmer as COBOL/SF will restructure any program as long as it compiles without errors.

COBOL/SF can find and extract functional modules from the existing operational monolithic programs it processes. These operational functions can be cataloged and be used as building blocks for new development.

### **What Is Structured Programming?**

Structured code is the use of a defined set of programming forms which are used in a hierarchy to segment and control the logic flow of the program.

Structured code in software maintenance provides rapid and precise understanding of program structure and operation. It permits program changes to be designed and verified in a systematic manner. The software engineering concepts evolved over the last decade for software development can be applied to maintenance only if the program can be

converted to a structured format. Since this is usually impossible without completely rewriting the program, old programs stay unstructured while new development tends to contain the same influences as the maintained code.

Programmers often invest weeks studying large unmanageable programs before any attempt can be made to change them. In those cases where the program is critical to his business, changes just are not made. Millions of lines of code have been frozen because modification would be extremely expensive if not impossible in time and programmer resources. Redeveloping a new version sometimes is the only way to make a critical program available for maintenance again.

The costs of maintaining programs during their life cycle is approximately 75 percent its total cost. Structured programs can be maintained for less than unstructured ones because the programmer can identify and design change more easily. Some estimates have placed this difference at fifty percent less, thus emphasizing the value of converting to structured standards.

With the announcement of VS COBOL II, the estimated 400,000 COBOL programmers in this country now have a structured programming language available for the largest existing body of programs. With the announcement of COBOL/SF they have the means to have all of their programs structured and documented. They can then use COBOL/SF to create automatic enforcement of standards to keep them that way.

### Applications

- **Re-engineering to extend the life** of the programs. The modernization of software into structured form is an important step in extending the operational life of programs that have become difficult to maintain.
- **Re-engineering for program redevelopment** Portions of poorly structured programs, which must often undergo redevelopment to incorporate major new functions, can often be salvaged for use in redeveloped versions.
- **Re-engineering for standards** enforcement in new programming development. COBOL/SF defines a standard for structured programming practice in new program development that can be enforced automatically.

### Education

IBM's Professional Services offers a Workshop that gives users two days of intensive coverage of features and function. Class schedules are published and special classes can be requested. This organization offers experienced people to assist in estimating, planning, managing and performing conversion projects. They offer on-site workshops to train customer

personnel in all aspects of conversion. Their COBOL/SF offerings include both workshops and professional assistance.

Service Research Associates offers IBM VS COBOL II Facilities - (32301) - a self-study course featuring the difference between OS/VS COBOL and VS COBOL II and includes a videotape overview of the new features.

SRA offers eleven self-study courses for COBOL programming including structured COBOL.

The VS COBOL II Migration Guide (G320-0562) aids in the understanding of the level of effort required to migrate from OS/VS COBOL to VS COBOL II.

A Competency Center has been established to answer marketing and technical questions: 1-800-527-5068.

**IBM Network** In addition to licensing COBOL/SF from IBM, an alternative to accessing it is use of the IBM Network. Users may remotely process their programs using the IBM Network facilities. See your IBM Network representative for details.

### **Justification**

The quick cost justification can be done by using the following formula as a rule of thumb to determine the payback period your organization can receive on investment in COBOL/SF.

A. # Programmer years \_\_\_\_\_ x \$60K = \_\_\_\_\_

B. # Programmer months \_\_\_\_\_ x \$5K = \_\_\_\_\_

C. # Programmer hours \_\_\_\_\_ x \$28 = \_\_\_\_\_

## II. ESTIMATED PRODUCTIVITY IMPROVEMENT USING COBOL/SF

(as a %) \_\_\_\_\_%

## III. ANNUAL MAINTENANCE SAVINGS

(I x II) \_\_\_\_\_

IV. COBOL/SF INVESTMENT (One-Time Charge)                      \$125,000

V. PAYBACK PERIOD (IV divided V)                      \_\_\_\_\_

\*ASSUMPTIONS (Substitute your data if available):

1 Programmer = \$60,000/year including fringe

176 person hours/mo. = \$5,000/mo.

1 person hour = \$28/hour

NOTE: This worksheet does not take into account project management or educational costs associated with the conversion effort or the re-structuring activity.

**Operating Environment** MVS or XA, VS COBOL II (5668-958), PL/I (5734-LM5) and ISPF Version 2.

- MVS/SP Version 1 or 2 (XA)
- VS COBOL II Release 1.1 (5668-958)
- PL/I Transient Library Release 5 (5734-LM5)
- ISPF Version 2 (5665-319)

The following are required to install and operate COBOL/SF under VM:

- VM/SP (5664-167) or VM/HP (5664-173)
- VS COBOL II Release 1.1 (5668-958)
- PL/I Transient Library Release 5 (5734-LM5)

- ISPF Version 2 (5664-282)

Two additional products that should be considered are ISPF/PDF Version 2 and CICS/COBOL Conversion Aid (5785-ABJ), which requires ISPF/PDF Version 2. The CCCA product can be useful in the mechanical conversion of OS VS COBOL and CICS Commands to the new syntax of VS COBOL II.

## **Publications**

The following publications are available:

Re-engineering Concepts	SC34-4079
User's Guide and Reference	SC34-4080
Master Index	SC34-4108
Binder and Tabs	5X66-0201
Licensed Program Specifications	SC34-4078
Software Update Brochure	G320-9391
Slide Set & Script	GV26-1001
Presentation Guide-Foils	GC34-4087

## **COPICS**

IBM's Communications Oriented Production Information and Control System takes a practical, online approach to purchasing, customer order processing, material planning, inventory control, shop order release, shop reporting and other manufacturing functions. Start with one application and expand into a complete system. It permits tailoring to present needs and allows growth and change. The architecture is integrated among all functions.

COPICS includes more than just the application. There is a complete data base design, an "action message" system for exception handling, documentation, a customer support and education program, and a customer hotline.

### **Benefits**

More accurate bill-of-material information and control of engineering changes

Improved inventory control

Reduced work in process

Valid order priorities and schedules



## Better control of material receipts and movements

### Engineering and Production Data Control

- Bill of Material Online II 5785-GBA \$4,725 or \$142 monthly
- Bill of Material Batch Utilities II 5785-GBC \$2,490 or \$75 monthly
- Online Routing for VSE: 5746-XY1 \$13,560 or \$411 monthly  
for MVS: 5740-XYX \$13,560 or \$411 monthly
- Facilities Data Management 5668-907 \$9,765 or \$297 monthly

### Customer Order Servicing

- Data Management 5785-DCN \$9,710 or \$294 monthly
- Order Management 5785-DCP \$9,710 or \$294 monthly
- Shipping Management 5668-906 \$14,070 or \$428 monthly

### Forecasting

- Inventory Planning and Forecasting 5798-DCR \$8,575 or \$259 monthly
- Master Production Schedule Planning 5668-898 \$31,500 or \$1,380 monthly
- Inventory Accounting II 5785-GBE \$3,475 or \$105 monthly
- Advanced Function Material Requirements Planning II 5785-GBF \$5,215 or \$158 monthly

### Manufacturing Activity Planning

- Shop Order Load Analysis and Reporting 5668-908 \$15,430 or \$469 monthly
- Capacity Requirements Planning 5668-829 \$18,000 or \$900 monthly
- Shop Order Release II 5798-DCQ \$11,490 or \$372 monthly
- Plant Monitoring and Control Host Interface 5798-DFR \$5,705 or \$173 monthly
- Plant Monitoring and Control 8100 5798-DFT \$21,500 or \$653 monthly
- Purchasing 5785-GAX \$12,470 or \$379 monthly
- Receiving 5785-GAZ \$8,690 or \$264 monthly
- Product Cost Calculations II 5785-GBD \$5,705 or \$173 monthly

### Decision Support

- Management Information 5798-RTG \$3,600
- Executive Data Link 5785-DFW \$10,000 or \$500 monthly

**CORMES** (Communications Oriented Message System, VSE 5746-XXM or MVS 5668-007), sends messages to users about situations requiring special attention, such as the need to expedite a shop order, change a material plan, or create a new routing.

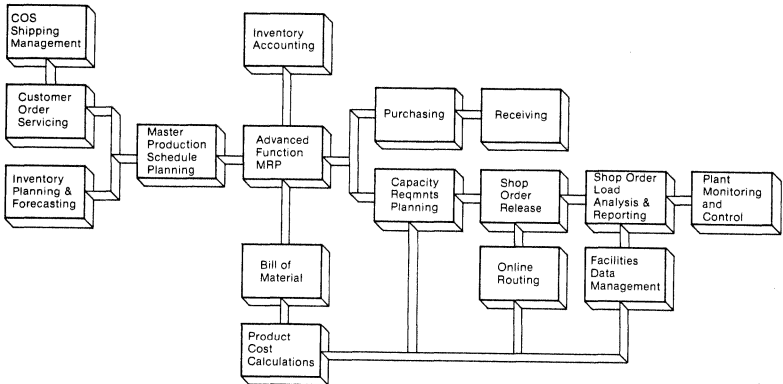
COPICS and CORMES provide realtime assistance in solving operational problems facing material planners, engineers, shop supervisors, production

planners and others responsible for the creation and transmission of information.

**Environment** CICS/VSE or CICS/MVS plus DL/1 or IMS.

**Information Flow**

**COPICS**



**Bill of Material Online II** brings the data base directly to user departments. Using display terminals, users can maintain the product definition data base and make inquiries.

- Provides functions to create and maintain descriptive information about production and supply items, and to create and maintain product bills of material.
- Provides online processing for:
  - Creation and maintenance of item, bill of material, engineering change data and related bill of material changes
  - “Same-as-except” bill of material creation
  - Deletion and/or replacement of a component based on the effective date of an engineering change
  - Validity checking of input data
  - Continuity checking and low level code maintenance
  - Creation and maintenance of responsibility data used to send action messages
- Product structuring supports:
  - Sequencing of bills of material other than by component item number
  - Phantom codes
  - Options and variants within a bill of material with a related usage probability percentage

- Provides inquiry on:
  - Individual item data
  - Bill of material explosions
  - Bill of material implosions
  - All engineering changes for an item or detail information for a specific engineering change
  - A list of functions available to the terminal user
- Interfaces with Advanced Function Material Requirements Planning II, which ensures recalculation of the material plan when bills of material are created or modified
- Interfaces with CORMES to create action messages

**Bill of Material Batch Utilities** provides the user with utilities that load, unload and perform basic retrievals against the COPICS product definition data base. This program is to be used in conjunction with Bill of Material Online.

- Prints bill of material explosions and implosions
- Checks the validity of input data
- Checks continuity and maintains low level code
- Provides unloading and reloading of the data base for maintenance and recovery purposes
- Includes programs for:
  - Bill of Material Load
  - Bill of Material Low Level Code
  - Bill of Material Data Base Unload
  - Product Definition Data Base Unload/Reload
  - Customer Order Servicing to Bill of Material Data Base Unload/Reload

**Online Routing** organizes information defining an item's manufacturing process (routing) within a COPICS data base architecture. The routing information can then be used in cost planning, shop order release and shop order tracking systems.

- Provides the basic functions required to collect and compile data, statistics and information used in preparing routing documents, modify and revise those documents, and handle the administrative aspects of the process
- New routings can be created by copying data from existing ones
- Standard time values can be maintained by the system
- Where-used information on tools, materials, facilities and master operations available online

- Extensive data editing using product definition, resource/facility and tool data bases
- Online messages report exceptional situations
- User exits provided for application modification
- Features involving application housekeeping
- Interfaces with CORMES

**Facilities Data Management** allows manufacturing, engineering, and production engineering departments to effectively manage changes that affect work centers, machines, tools and tool kits. Using display terminals, users can create and maintain work center, machine, tool and tool kit data, and make inquiries against the resource/facility data base.

- Online creation and maintenance of the resource/facility and tool data bases, including validity checks of the input data
- Sequencing of machines contained within a work center
- Sequencing of the alternates to a work center or machine
- Specification of variation of standard cost rates of a work center or machine, by time
- Specification of the variation of capacity of a work center or machine, and variation of the number of machines within a work center, by time
- Sequencing of tools or the alternates to a tool or tool kit
- Online inquiries on all data created
- Provides an interface to CORMES

**Customer Order Servicing - Data Management and Order Management** expedite order entry by providing central control of customer orders at every stage of processing; and they supply correct order status information. Master Production Schedule Planning (5668-898) is a companion product.

Data Management is a prerequisite for Order Management. It consists of all the programs needed to store product, customer and text data. Order Management contains the programs needed to process customer orders and make customer order data available.

Order Management provides:

- Online entry

- Display and maintenance of order header and line item data with pricing, discounting, allocation and entry of text associated with the line item
- Display of order status by order number, customer number or item
- Order analysis on the basis of many different criteria
- Support of four types of orders: single, blanket, release against blanket and quotation
- Interfaces to CORMES

**COS Shipping Management** provides the functions required to control the shipping process, from the selection of customer orders for shipment through the preparation of invoices. It addresses the needs of companies that need to keep close control of orders at all stages of the shipping cycle. Though integrated into COPICS (COS Order Management, COS Data Management and COPICS Inventory Accounting), shipping management can be implemented without any other COPICS product.

Shipping Management uses the order data generated to control:

- Selection of customer orders for shipment
- Planning deliveries
- Picking material from stock
- Packing orders
- Planning loads
- Daily closing of data bases
- Bulk printing of invoices
- Processing of shipping results and reporting to management
- Provides an interface to CORMES

**Inventory Planning and Forecasting II** provides manufacturers with comprehensive tools for inventory management.

The Inventory Planning portion provides analysis and order planning capabilities. The Forecasting Portion allows the user to analyze demand history, select a forecast model and project future demands.

It provides batch processing for:

- Analysis and classification of inventory items based on annual usage and cost
- Calculation of economical order quantities for order point and MRP-controlled items
- Calculation of safety stock quantities for order-point and MRP-controlled items

- Calculation and notification of order points for non-MRP controlled items
- Selection of forecast models for independent demand items based on historical data and projection of demand based on the model and current demands
- Provides online processing for inquiry and modification of data calculated by the batch programs and inquiry of inventory status data
- Interfaces with COPICS Advanced Function Material Requirements Planning II, which ensures recalculation of the material plan when the quantity is recalculated for an MRP-controlled item
- Interfaces with CORMES to create action messages when the demand for a forecast item is unexpectedly large or small

**Master Production Schedule Planning** provides online and batch functions to manage the master schedule, from analysis of demand through communication of the master schedule, to material requirements planning. It enables a master scheduler to enter an aggregate production plan, analyze the current demand for a master item, check that resources are available to achieve the plan, and verify that the master schedule will satisfy demand. COS Data Management is a companion product.

- Supports these production environments: Make to Stock, Assemble to Order, Build to Order
- Supports two-level master scheduling through planning bills of material and option bills of material
- Allows alternative implementations of a master scheduling process within the following framework: production planning, demand analysis, master schedule planning and final assembly order planning
- Other MPSP features allow the user to:
  - Process multiple sets of planning data
  - Enter and maintain item production plans
  - Enter and maintain plan adjustments
  - Calculate cumulative lead times
  - Maintain master scheduling item planning parameters
- Uses CORMES to manage exception messages

**Inventory Accounting** addresses the administrative or record keeping aspects of inventory control. The application program supports online entry, editing and processing of COPICS inventory transactions with batch transaction history and audit trails.

The program communicates unplanned inventory transactions to Advanced Function MRP to replan those items in the next selective replanning run.

- Provides online processing for reporting a variety of inventory transactions including receipts and issues, stocks transfers from one location to another, cycle count quantities and adjustments up or down for on-hand and on-order quantities
- Checks for negative on-hand balances
- Logs all transactions to a history data base
- Displays summary inventory status, location inventory status and transaction history
- Provides batch processing for calculating and reporting on-hand inventory valuation
- Provides for initial loading of the product definition data base in which the inventory status is maintained
- Reconciles summary status data to the sum of the corresponding location balances
- Prints an inventory transaction journal
- Deletes old transaction history data and saves it on tape
- Supports multiple stocking locations for each item. For each location, on-hand and reserved quantity records are controlled either by Advanced Function Material Requirements Planning II or COS programs.
- Interfaces to Advanced Function Material Requirements Planning II, via the Activity data base
- Interfaces to CORMES for action messages when a negative on-hand balance occurs or the order point is reached

**Advanced Function Material Requirements Planning** uses inventory balances and product structure information to determine time-phased net material requirements for both manufactured and purchased items.

- Calculates an items material plan based on
  - Planning by date
  - Net requirements determination considering on-hand, safety stock, scheduled receipts, requirements, allocations, and shrinkage
  - Planned order determination considering lot sizing policies, order quantity modifiers and lead times

- Dependent requirements determination considering phantom item codes, engineering change date, usage probability, assembly scrap factor and lead time offset
- Planning is performed in a selective (net change) mode based on changes to independent requirements, planning factors, orders, dependent requirements and bills of material
- Regeneration of the plan is optional
- Independent requirements can be identified as planned, firm, open or released
- Single level pegging is maintained for all independent and dependent requirements
- Orders can have a status of planned, firm, open and released
- Allocations for both end items and components are maintained by date (rather than a single quantity)
- Provides online processing for
  - Maintaining material management planning factors
  - Reviewing, analyzing and controlling the material
- An interface to CORMES facilitates the creation of action messages

**Capacity Requirements Planning** is a medium-term planning system that assists production planners in producing a balanced material and capacity plan that is realistic and achievable when released in the plant. The program takes the material plan, such as that produced by Advanced Function/Material Requirements Planning II, and schedules it against the available manufacturing resources, calculating their expected load. Load profiles are produced for selected work centers so potentially overloaded areas can be identified and corrective action taken. COPICS Advanced Function/Material Requirements Planning (5785-GBF) is a companion product.

- Extract planned, firm-planned and (optionally) open manufacturing orders from the COPICS planning data base, and routings from the COPICS routing data base
- Schedule the extracted orders, operation by operation, forward from the release date and, optionally, backward from the due date
- Build load profiles against selected or all work centers, based on operation start and finish dates, as calculated
- Prepare load detail information for work centers based upon the forward or backward schedule



- Display transactions that present the calculated load profiles in color, graphical form, highlighting possible bottlenecks in production capacity
- Online transactions that permit individual orders and operations within those orders to be reviewed
- Batch reports containing load profiles and operational detail information for all or selected groups, departments or work centers
- Identify selected work centers and maintain order scheduling parameters
- Create and maintain basic work center data needed by the scheduling function
- Create and maintain alternate routing information for planned manufacturing orders
- Help facility to assist new users
- Interfaces to CORMES

**Shop Order Release** provides a tool that takes a portion of the material plan, such as that produced by Advanced Function/Material Requirements Planning, establishes and maintains records to track the progress of manufacturing orders. It also releases those orders to the shop floor, processes inventory transactions against the component material and reports completed production. Other COPICS products (Plant Monitoring and Control or Shop Order Load Analysis and Reporting) report manufacturing activity by operation to the records established and maintained by Shop Order Release.

- Creates open shop orders from planned, or firm planned orders
- Released orders are created from open orders that are ready for work and have satisfied component availability criteria
- Order status, due date, quantity and other shop order data is maintained online
- Online inquiry and file maintenance is provided, including the ability to close, cancel and delete shop orders from the file
- Online capabilities that support pick list preparation, displaying component inventory, preparing a move list for components not issued from stores, reporting transfers of components on a move list, and returns of components that were not used
- Interfaces to Advanced Function Material Requirements Planning II via the Activity data base. Also interfaces with CORMES for message processing

**Shop Order Load Analysis and Reporting** is a tool for scheduling start and end dates for shop orders, and comparing their load to available capacities. It maintains and compares records of planned and actual work load input and output for each work center.

- Schedules open and released shop orders, operation by operation, backward from the due date and forward from the order release date
- Provides a load profile against each work center based on the forward schedule dates
- Provides an input/output control system by maintaining historical and projected loads and comparing the actual throughput of work with the planned input
- Highlights deviations in planned manufacturing lead times
- Prepares suggested job dispatch lists for each work center based on the dates derived from backward scheduling
- Reports the work done against individual operations and orders by quantity and/or time
- Reschedules online single or multiple orders that have changed since the last batch regenerative scheduling run
- Maintains basic work center data
- Displays color graphics for quick assimilation of complex data
- Sends schedule changes to COPICS Plant Monitoring and Control
- Interfaces with CORMES

**Product Cost Calculations** analyzes and simulates the impact of changing component material, labor and burden costs. Sitting at a terminal, the user can change cost factors or simulate cost factor changes and quickly review the impact on the end item's profitability.

- Batch and online programs provide a connection between production management and financial management
- Creates and maintains six types of costs: material, setup, internal labor, external labor, fixed burden and variable burden
- Calculates standard elementary costs using routing and resource/facility data
- Maintains multiple versions of standard and actual elementary costs by date

- Provides online entry and update of elementary costs
- Provides for the buildup of accumulated costs
- Displays a list of available functions, cost history data and variance of current actual costs to current standard costs
- Calculates accumulated costs
- Simulates the effects of bill of material changes on a product

**Purchasing** provides buyers with timely information on requirements for purchased items. It helps buyers to effectively evaluate and select suppliers, reduces clerical effort, and provides more time for negotiations with suppliers.

- Purchase orders can have the following formats: single or multiple item, single or multiple delivery, blanket order or a release against a blanket order, and orders with consigned material
- Orders can be created from a planned, or firm planned purchase order in the Purchase Order data base
- Provides for online inquiry and the maintenance of requisitions
- Prepares orders online and provides for splitting a requisition, grouping requisitions and items into a single order, splitting deliveries by date and location, and routing receipts to required destinations
- Provides support for printing purchase orders
- Manages supplier information
- Displays and maintains information that can be used to evaluate a supplier's workload, and can help with supplier selection
- Interfaces to CORMES

**Receiving** assists receiving and inspection personnel in controlling materials from the time they are received at the dock, until they are moved to their final destinations (such as stores or requesting department). It enables the user to process all types of receipts directly on a display terminal, to call for any supporting data, and to identify and track the received material.

- Status of receipts is identified
- Provides online display of receipts
- Creates receipts from open purchase order data

- Provides online identification and entry of receipts, including:
  - Validating and accepting/rejecting receipts
  - Entering unplanned or unidentified receipts
- Provides online splitting of receipts-in-process into lots for inspection and/or routing to multiple destinations
- Provides online tracking of receipt lots with the reporting of quantities
- Allows users to save the contents of a display and retrieve the saved display for continuation of processing
- Interfaces to CORMES to facilitate the creation of action messages

**Plant Monitoring and Control** provides labor reporting, tracks shop orders, with information on their status at any given time, and reports results of production to the planning system.

**PM&C 8100 5798-DFT \$21,500 or \$653 monthly**

#### Attendance and labor reporting

- Attendance reporting transactions
- Labor reporting transactions
- Display and maintenance of an individual employee's daily work activity
- Departmental reports of tardy and absent employees
- Reports listing employees who have not started a job
- Displays all employees in the department showing the last activity reported

#### Shop order tracking

- Create, display and maintain shop order and routing information online
- Create magnetically encoded shop order cards
- Display all open shop orders for a part number
- Display of shop order operations with standard hours, schedules and pieces completed and scrapped
- Report job move and receipt transactions

#### Administrative

- Define and change employee access security
- Print reports of assigned temporary badges, security assignments, departmental list of employees and departmental work schedules
- Authorize vacation and leave requests
- Add, remove and change employee information

#### System control

- Utility programs and CLISTs to prepare interface transactions from the 8100 daily collection information for processing by the PM&C Host Interface or a user-written host interface program
- Use CLISTs to load, unload and maintain 8100 data bases

**PM&C Host Interface 5798-DFR \$5,705 or \$173 monthly**

- Extract new released shop orders from the Shop Order data base, and prepare a transaction file of records to be inserted into the 8100 Shop Order file
- Create a transaction record to update the 8100 Shop Order file when due dates at the host are changed
- Create a transaction record to delete closed orders from the 8100 Shop Order file based on deletion of the shop order at the host
- Update the host Shop Order data base with feedback from the 8100 Transaction file
- Transaction exits for additional user processing of feedback (for example, payroll and labor distribution applications)
- Create CORMES action messages for the material planner and/or production scheduler when shop order maintenance is performed at the 8100, and when the last operation is reported complete

**CORMES** can build a paperless, central message exchange system in an organization, connecting terminal users and programs with different functions. It creates action messages accessible online to users concerning conditions that require attention, such as the need to expedite a shop order, change a material plan, or create a new routing.

Provides communication links:

- For the exchange of information between terminal users (action messages)
- For interaction between programs and terminal users (action messages)
- For triggering the execution of online application programs based on the occurrence of prespecified events (trigger messages). CORMES supports two communication principles, the action file concept and the trigger concept.
- Action messages can be issued by application programs or terminal users on the occurrence of prespecified events, whenever human action must be taken or decisions made
- Action messages comprise formatted and unformatted data and can be manipulated and distributed via the CORMES functions, or routed from one terminal to another
- These functions are available:
  - Display an action message, detail or summary data

- Select action messages meeting specific criteria
- Cancel an action message
- Change an action message
- Enter a new action message
- Distribute/reroute an action message
- Start a transaction directly from CORMES to invoke an application program that can process an action message
- Initiate programs in response to an action message

**Management Information** encourages the user to extract operational data from COPICS data bases and display it for analysis. Information is extracted, summarized, costed (if appropriate) and sorted by time periods in a separate file. It may be displayed in an inquiry format or color graphic.

- Provides online management information in five areas: inventory, purchasing, material planning, work in process, and customer orders and sales
- Provides seventeen color graphic displays of summarized management information, accompanied by five inquiry screens that show the data charted
- Creates extracts of live, operational COPICS data, with information as complete as the source data base
- Performs inquiries to determine whether or not the operational COPICS system is online
- Displays information as current as the most recent extract run
- Two-screen help menu makes it easy to select the appropriate display of the MI-COPICS data in either detail text format or graphics format
- Allows the user to move between help screens and graphic displays with a minimum of keystrokes

**Executive Data Link** extracts data from DL/I, IMS and VSAM to user specifications. The information is formatted for the PC in either *Data Interchange Format* or basic sequential format. EDL can be used with many PC programs, such as spreadsheet analysis, graphics and other management support applications, and is designed for professionals have no programming knowledge.

- Data may be requested by a specified information type in specific sequence and arranged in a specified order
- The PC file may be a sequential file or a data interchange file and may be built immediately or while the PC is performing other tasks
- A personal set of extraction parameters may be set up when the same information is requested frequently

- Menus and screens guide the user through each EDL task
- Help screens and error messages provide additional information and examples
- Standard extraction parameters may be set up by the data processing department for different groups of users
- PF keys or function codes may be assigned dynamically by the administrator
- Limited access to specific information may be defined by the administrator

## **Cooperative Viewing Facility 5664-296**

\$5,280 or \$330 monthly

There's a more efficient way to connect the data, ideas and output of professionals and their support staff. CVIEW adds the visual dimension to voice communication. With CVIEW, twelve CMS users can see and control the same information at the *same* time—across the hall or across the nation.

### **Highlights**

- CVIEW connects you with a valuable software development technique. Developers in different locations can be teamed to create related modules of a new application or test and debug the same one. You can walk your colleagues through your program. Each of you can observe a remote test—as it is executing!
- CVIEW provides a high-tech training tool with a personal touch.

Teacher and student view the same application, so the session is totally interactive. The ease of use and proximity to help encourages the student to persevere. You can add a projection system, which can improve the visual impact to a large meeting

- CVIEW shortens report preparation time, when data are gathered from several sources. It is a very efficient technique when the data are scattered. It can save large amounts of time when several analysts must discuss the processing of the same set of data.
- Sharing of large amounts of data can produce large savings in professional's time, computing and communication costs. You don't need all those duplicate files; the greatest cost of which is the

(people-time) sending them, then filing and keeping track of them — and getting a refresh copy every month.

- CVIEW enhances productivity of the trainee and the expert. It is applicable in many end user oriented disciplines, most notably in the Information Center and Development Center environments. As many experts as are required to solve a particular user's problem may join a single CVIEW session, interacting with the user to solve the problem. In the Information Center, end users often are professionals--along with expert counselors at the 'help' desk. In the Development Center, the users are DP professionals and *their* experts are members of technical support groups.
- CVIEW was designed for the convenience of the principal and the professional. It is equally useful to the data processing specialist, and the professional's support staff. You can prearrange an 'appointment' or phone your session partners as needed. After signing on to the computer, follow the easy steps to start a session.
- CVIEW provides a facility to aid you in establishing a directory of advisors and correspondents, along with their functions.

This is an intimate and versatile teleconferencing technique; its principal design characteristic is to improve the quality of problem solving and communications between professionals in a workteam. Secondly, it offers value by reducing the professional's time spent in phone conversations, and the disruption caused by travel. With CVIEW, up to twelve people or groups can participate in the identical session, without having to rekey the commands of the other. As the application is running for one user, his partners see it—making possible the true sharing of data and cooperative problem solving. Joint efforts are easily undertaken and are more productive. Workteams are effective even when they are international in scope.

## **Environment**

- VM Release 2, HPO Release 3 or later
- Many terminals are supported. Some of the most commonly used are 3277-II, 3278-II, III, IV, or V, 3279 in four-color mode, 3178, 3179, 3180, 3290, 3270-PC (host session), 3270-PC/G (host session), 3270-PC/GX (host session), XT/370 (remote session).
- The power of CVIEW network applications can be enhanced by using IBM Pass Through Facility or Native SNA under VM Release 4.

For more information use the Order card for General Information (GC34-4005); the User's Guide (SC34-4006, \$2.15 plus tax) is recommended.

A one-time upgrade charge of \$1375 is available to licensees of version 1.



## Cross System Product Set

Cross System Product/Application Development	5668-824
Cross System Product/Application Execution	5668-825
Cross System Product/Query	5668-918
Cross System Product Set EZ-PREP	6317-011
Cross System Product Set EZ-RUN	6317-010
CSP/Application Development for DPPX/SP	5660-284
CSP/Application Execution for DPPX/SP	5660-285

**CSP** is an application development and execution system that integrates these functions into one set of tools:

- Structured program design
- Program editing
- Definition librarian
- Screen definition
- High level language processing
- Prototyping
- Online testing and debugging
- Query and report generation for files
- Cross system program portability

Cross System Product Set support for application definition, execution and query functions is available in the environments shown in the following table:

Environment:	Definition	Execution	Query
CICS/OS/VS	Yes	Yes	Yes
CICS/DOS/VS	Yes	Yes	Yes
SSX/VSE	Yes	Yes	Yes
VM/SP CMS	Yes	Yes	Yes
MVS/TSO	Yes	Yes	
MVS Batch		Yes	
IBM PC/DOS		Yes	
8100 DPPX/SP	Yes	Yes	

### Cross System Product/Application Development

AD is an interactive application development system that allows you to define and test application programs and then generate them for execution in a production environment under AE.

**Defining Applications Using AD** AD encourages you to think of an application design in terms of

- The formatted data (called maps) that the user sees on a display screen or in a printed report.
- The file or data base records processed by the application.
- The order in which maps are displayed and records are processed.

Map Definition lets you enter screen and report formats from the terminal exactly as they will appear in a production environment. During this step, you select validation checks to be made when users enter actual data in the fields at execution time. You also specify attributes for input and output fields on the map including highlighting and color.

Data Definition lets you describe the data to be used in the application. Data definitions for structures (called records) and fields (called items) are stored as separate members in the Member Specification Library and can be used in multiple applications without requiring redefinition. Records can be in sequential, relative record, or indexed files, in DL/I data bases, or in application working storage. VSAM is the access method used for relative record and indexed files.

Application Definition lets you define application logic in blocks called processes and statement groups. Each process block performs a single input/output operation called a process option. The nine process options are

Inquiry	Read a record
Scan	Read the next record
Update	Read a record for update
Replace	Write a record back
Delete	Erase a record
Add	Write a new record
Display	Display or print a map
Converse	Display a map; read and verify data entered
Execute	Execute statements (no I/O operation)

You enter AD processing statements for each process block to define the logic executed before or after the process option and to control the flow of control between processes. The simple programming language supports data movement and calculations, loops and conditional processing, and calls to statement groups and other programs. Calls to other programs use a standard COBOL parameter list so that applications can be used with programs written in other languages.

A statement group simply is a block of processing statements you can call from a process or other statement group. Each process and statement group is stored as a separate MSL member and can be reused in other applications.

DL/I application development uses a few additional features of data definition and application definition. In a DL/I environment, the data base administrator uses the PSB definition facility to define the hierarchical structures that the application can access. The DBA also defines the layout of each segment in the hierarchy using the record definition facility. The PSB and segment definitions are stored as separate MSL members and can be used in different applications.

The application developer accesses DL/I segments using the standard process options (Inquiry, Update, Scan, Add, Replace, Delete). AD builds a default DL/I parameter list to access the segment. The developer can use the default list or edit the list to modify the search arguments. The default parameter lists are sufficient for the most commonly used DL/I functions.

**Prototyping and Testing Applications Using AD** Several components of AD support online prototyping and testing.

Map Definition displays screens as they would be seen at execution time. End users can evaluate the screen layout before the rest of the application is defined. The maps can be corrected online and redisplayed to the user without waiting for a batch compilation.

Data Definition and Application Definition catch most syntax errors and invalid definitions at the time the information is entered. You are prompted to correct the definition before it is stored in the library.

The Preprocessor checks for inconsistencies in the set of definitions that make up the application. Error messages are displayed on the screen or written in a printed report.

The Test Facility executes an application directly from the source definition of the application in the MSL without requiring a batch compilation. The application definition does not need to be complete or correct before the test begins. The test will execute until an error is discovered and reported to the user. The user can fix the problem immediately and restart the test without leaving AD. Test facility trace options include instruction stepping and display of selected data fields when modified.

**Generating Applications Using AD** Generation prepares applications for execution in a production environment using the AE product.

Applications can be defined and tested on one system and generated to be executed on another system. The definition environments are MVS, VM, CICS and SSX. The application can be generated in any of the definition environments for execution under CICS SSX, VM, TSO, MVS Batch, and 8100/DPPX/SP.

### **Cross System Product/Application Execution (AE)**

Once an application has been defined, tested, and generated using AD, it is ready for execution on a production system using AE. The generated application is a system independent program. AE interpretively executes the application, providing a machine and system independent interface to files, data bases and terminals.

AE is packaged as a separate program product so that application can be defined on a central development system and executed on multiple production systems without charging for AD functions on the production

systems. AE includes utilities for transporting generated applications from system to system.

AE is prerequisite to AD since it provides system independent file and terminal services for AD.

### **Cross System Product/Query**

CQ is an interactive query and report writer for both non-data processing users and data processing professionals. Query supplements IBM's other query products for data base systems with a query product for files.

Users can select information from VSAM or CMS files through easy-to-use menus and dialogs or through a subset of the Structured Query language. In either mode, the program allows the user to view text and data in the form of tables or graphs.

The selected information can be printed or stored in a file for access from application programs. The query selection conditions can be stored along with report formatting requirements and rerun at a later date. This makes CQ a productive tool for building report programs.

Both AD and AE are required for CQ. Query accesses files and terminals using AE services. Query uses the record definitions from AD to determine the structure of the files it is accessing.

CQ is available for CICS, SSX, and VM environments.

### **Cross System Products for the IBM PC**

EZ-PREP and EZ-RUN were developed using AD on an IBM mainframe. EZ-PREP takes an application exported from the MSL on the mainframe and prepares it for execution on the PC. EZ-RUN executes the prepared application.

EZ-PREP and EZ-RUN support all I/O functions except DL/I data base access. EZ-RUN uses its own indexed access method to support indexed files on the PC.

### **Cross System Products for the 8100**

AD for 8100/DPPX/SP supports development and execution of applications on 8100. The applications are developed using AD on the 8100 or on a mainframe.

## **IBM Database 2 5740-XYR \$16,050 plus \$2,675 monthly**

**DB2** is IBM's relational data base management system for the MVS and MVS/XA environments. It may coexist with and complement an IMS/VS data base. It is accessible via the IMS/VS Data Communications feature, CICS, TSO or batch jobs. Programs executing under IMS/DC, CICS, TSO or JES may access data stored in IMS/VS and DB2 data bases.

DB2 operates as an MVS subsystem capable of utilizing thirty-one-bit architecture and up to sixty-four billion byte data base tables. It uses state of the art technology such as hardware cross-memory services, provides complete support for multi-engine processors, and is integrated with strategic IBM systems software.

### **Highlights**

*The Relational Data Model* is easy to learn and work with. Users of spreadsheet programs will grasp the concept at once; data is viewed as tables made up of rows and columns. A data base can contain many tables. The user does not need to know anything about the physical storage of data in the computer. All relationships are represented as tables to users, with DB2 automatically navigating through data structures; in other words, users specify *what* they want, not how to access it.

Automatic selection of a proper path to a data item (navigation) allows the programmer to concentrate on the logic and data of the application itself, instead of details of data representation and access paths. Since DB2 operates on *collections* of data, (or does 'set processing'), the processing within the application program is simplified. So, for example, a complete list of people working in the same department might be retrieved from a personnel data base with a single simple Structured Query Language (SQL) query, without a programmer having to process the list one row at a time.

In many data base management systems the programmer must determine whether to scan data sequentially or to use one of several indexes to 'look up' data. DB2's 'optimizer' makes these decisions and the outcome is transparent to the programmer. After the application is written, the DB2 optimizer selects the best path available. This automatic navigation shortens a developer's learning time and lowers data base maintenance requirements. If a seldom used index is eliminated, programs that used it are reoptimized automatically, with no change needed to the SQL statement or application program.

*The DB2 Catalog* is a set of tables that contains explanatory information about the items within the DB2 data base: table characteristics, storage, programs and authorization. Authorized users, e.g., administrators can access, but not change, the catalog. The catalog contains an accurate description of all data bases at all times.

A *View* is an alternative way of looking at the data items in a table. Sometimes, you don't want to allow someone to see all of the data items in a table. Other times you would rather combine data items from several tables, and present the data as if it were a single table. A view is like a window through which you access just the data specified. You can generally use a view interchangeably with a table. It's a flexible structure that provides another layer of logical independence from the physical storage of data.

*Structured Query Language* is DB2's powerful, high-level, non-procedural language. Users specify *what* they want to do, not how to do it. A single statement expands to perform many lines of conventional program code:

- The same language is used to define, retrieve and manipulate the contents of the data base.
- The same language is used for both end user queries and application programs.
- Its syntax is fairly obvious and very consistent. Once basic familiarity is gained, even the occasional and casual user will find it comfortable.
- Math and logical operations can be performed. This does not require writing of a conventional program.
- It is based on mathematical set-level operations.
- SQL statements may be inserted into programs in many languages, including COBOL, FORTRAN, PL/I, BASIC, APL and Assembler.
- Data base administrators use SQL to define or change data base descriptors (characteristics). New data bases are definable; others may be partly or entirely deleted.
- System administrators use SQL to grant or revoke authorized access to data users. Authorized personnel may employ SQL to read from or write to the data base from a terminal.

*DB2 Interactive* uses ISPF to provide services to terminal users. Users may submit SQL statements. Online 'help' from five hundred panels requires pressing one key. TSO 'help' also is provided and the user may execute TSO applications. The DB2 commands can be entered interactively and DB2 utilities also may be initiated. DB2I is the complement to the Query Management Facility. QMF is preferred by users with less computing familiarity; DB2I will be used by programmers and information systems professionals. Both DB2I and QMF allow application developers to test their SQL statements before imbedding them in programs.

*Integrity and availability* are supported by a comprehensive, integrated architecture.

- DB2 has disk logging, automatic recovery on restart and utilities to recover data. After an outage, a restart automatically restores data by backing out uncommitted changes and completing the processing of committed changes.
- Recovery is coordinated with the transaction managers, IMS/DC or CICS, so that a problem in any part of the system is isolated and resolved with data integrity preserved.
- DB2 will operate for *long* periods without interruption. Events that require the stopping of other data bases don't require stopping DB2. While DB2 is running, most utilities may execute and data definitions may be changed interactively.
- DB2 is independent of transaction managers. It is a separate MVS subsystem and can operate even if CICS or IMS fails.

*New applications, new users* The ease of use and rich functions of DB2 will attract new data base users and information center users. Application areas that are particularly suitable are:

- New operational data base applications
- Decision support systems, applications with modeling characteristics
- Environments in which changing requirements make preplanning difficult
- Applications involving exhaustive search for data items
- Ad hoc, unanticipated queries
- Analysis of data extracted from existing file systems
- Temporary or prototype applications—where only minimal design and development can be expended
- Applications that must access both hierarchical and relational data structures
- Programs that are designed to read IMS, then write data items in a relational structure
- Very large data files
- Engineering and scientific data management

### **Primary Users**

- Application developers
- End users
- Data processing professionals, data base developers, data administrators
- Corporate audit and security

## **Potential Benefits**

- Addresses traditional data base applications and decision support needs.
- Provides rapid application implementation through ease of use and installation characteristics.
- Reduces application maintenance activity.
- Brings consistency in procedures and communications to a department or corporation through shared data and similar protocols for its usage.
- Allows some SQL users to 'administer' their own data bases with little or no application programming or formal data base administration.

SQL/DS for VSE is an analogous relational data base.

For more information, use the Order card in back to request GC26-4073 and GC26-4082.

## **DB2 Performance Monitor 5665-354 \$29,000 or \$975 monthly**

**DB2PM** will assist you in managing the performance of DB2. It interactively provides multicolor graphic information and a comprehensive set of background, tabular reports based on DB2 performance data.

It processes the performance data added by the enhancements to the DB2 Instrumentation Facility in Releases 1 and 2.

### **Highlights**

DB2PM's graphic information and comprehensive set of tabular reports provide DB2 performance information, which will aid in

- Determining system performance and efficiency.
- Tuning DB2.
- Identifying and removing potential bottlenecks.
- Maintaining a satisfactory service level to users.
- Identifying exception conditions.
- Measuring an application's performance and resource cost.
- Measuring an application's impact on other applications.



DB2PM's interactive environment for requesting reports, specifying control information, and providing online help makes the product easy to use and increases user productivity.

DB2PM has the capability to save results of the input data reduction process for later use so that you can restore that data and generate reports. This may eliminate the need for processing the original input data several times. This is important when processing large amounts of performance data.

DB2PM operates in an interactive environment. A dialog is established so that you can select the desired reports from menu lists. As reports are selected, additional panels are presented giving the many reporting options, such as limiting reporting periods, inclusion or exclusion of specific users or applications, report ordering, etc., available for tailoring the reports to your needs. At the same time, defaults are assigned for most options providing ease of use in requesting reports.

Once all reports are requested, DB2PM interactively generates for you the commands and JCL necessary to produce the requested reports. The resulting command/JCL file then is available so that you can edit it, or submit it for background processing and save it within DB2PM for reuse or modification.

A comprehensive online help facility is available in this interactive environment.

**Multicolor graphics** are generated of selected system and DB2 application performance data in an interactive environment using Graphical Data Display Manager. For the system and application data, you can plot multiple data items on a single graph to show relationships. For the application data, you can plot the same performance data for multiple users and applications allowing comparisons to be made easily. (The graphics system requires DB2 performance data that has been previously processed in the background environment.)

**Comprehensive report sets** are generated in tabular format, in a background environment, based on DB2 performance data collected by the DB2 Instrumentation Facility. With DB2PM, you can obtain reports in various levels of detail:

- System performance statistics
- I/O activity
- Locking activity
- DB2 application activity by user or application
- DB2 application transit time
- SQL Statement activity details
- Formatted DB2 trace records

Many options, such as limiting reporting periods, inclusion or exclusion of specific users or applications and report ordering, are available for tailoring

the reports to your needs. At the same time, defaults are assigned for most options eliminating the need to specify each option available.

## DisplayWrite/370

5665-382 CICS/MVS	\$14,000 or \$665 monthly
5666-338 CICS/VSE	\$6,000 or \$285 monthly
5664-370 VM/SP	\$14,000 or \$665 monthly

DisplayWrite/370 provides word processing to the professional. It includes a full-screen text editor/formatter that provides basic and advanced text functions for creation and revision of documents. Document printing will be supported by creating print data streams. In addition, DisplayWrite/370 provides multilanguage linguistic support for automatic hyphenation, spelling verification, spelling correction assistance, grade level analyzer and synonyms. (The grade level analyzer and synonyms support are only for English.)

DisplayWrite/370 processes both revisable form text (RFTDCA) documents and final form (FFTDCA) documents. These documents can be exchanged in both revisable and final form between IBM office systems products and applications supporting Document Content Architecture.

DisplayWrite/370 includes an application programming interface and can be invoked by a CICS application that provides the appropriate interface and maintains a document library. It can be invoked by any VM application or from the CMS command line. It is designed to work with Personal Services/370, with PROFS and with Document Management/VSE.

### Highlights

- Full screen interactive text editor/formatter supporting the 3270 and 3270-PC
- Optional support of the 3270 extended data stream
- Easy-to-learn and easy-to-use operating characteristics
- Context dependent help and tutorial.
- User ability to set own defaults
- Command lists to perform special tasks
- Split Screen for viewing another or the same document
- 'Undo and redo' of commands and local editing
- Basic text entry and editing capabilities
- Advanced text editing capabilities
- Support for variable specification and merging
- Support for pattern letters

- Support of RFTDCA and FFTDCA document interchange
- National language support
- Multilanguage linguistic aids

DisplayWrite/370 is a text processing application that includes functions for document creation and revision, interactive document formatting, printing, and linguistic support. It is designed to be used without the need for extensive user training. For casual professional users who are unfamiliar with text processing, this editor is easy to learn and easy to use. It provides full-screen support for a minimum of 24 x 80 to a maximum of 62 x 160 screen sizes.

**Extended Attributes** The editor provides optional support to the 3270 extended attributes featuring seven display colors (blue, green, pink, red, turquoise, white and yellow), blinking, reverse video and underscore options.

**Document Representation** For the 3270, the devices are capable of displaying mono-spaced characters only. Consequently, the screen will display the text in correct relative horizontal position only if the text is in 10/12/15 pitch uniformly. Mixed text in different pitches and/or proportional space fonts will not be displayed accurately but will be printed properly.

**Cursor Movement** The editor uses the cursor to indicate the screen and/or the text location where the editing operation should take place. When the commands to be issued are not on a PF key, the command line has to be used. To make using the command line quicker and maintain the cursor position in the text, a "floating" command line can be used. When a specific PF key is pressed, DisplayWrite/370 displays a command line in the text area of the screen.

### **Window Techniques**

Some of the DisplayWrite/370 functions require interaction with the end user. In such instances, the editor will overlay a small display area on the screen prompting the user to key a new value. By issuing the END or CANCEL command, the window disappears, and the original contents of the screen are redisplayed.

### **Although DisplayWrite/370**

is designed for occasional users, users of different skill levels are also accommodated. The most common approaches make use of the PF key and menu/prompt mechanism that lead the infrequent user by the hand without the need for extensive operator training. A mechanism is provided for the more experienced text processing user to enter the editor commands directly at the command line.

### **Editor Commands**

The editor is command driven internally. All commands are written to a log-file for UNDO, REDO and recovery purposes. A command can be issued ...

- From menu windows. Many commands need additional specifications. These specifications can be selected using the command selection menu. This input is then used to construct the command.
- From a PF key. Any command string may be assigned to a PF key. This is most useful for frequently used commands and when the cursor is used to identify the position in the text where the command should be executed. The editor will be shipped with a set of default PF keys. These may be changed by the user.
- From the command line. The user may select any editor command by typing on the command line.
- Using the floating command line. If the user wants to enter a command and keep the cursor position in the text, the appropriate PF key can be pressed and a command line will be displayed in the text area of the screen.
- From a command list. If a set sequence of commands is to be processed repetitively, they can be grouped together by one name. During the editor session, the user may just enter this name.

**'Undoing and redoing' changes** DisplayWrite/370 enables the user to revoke changes of commands and text that he made before; that is, the user can undo them. This is applicable to every change since the last SAVE command, or since the user started the editing session. On the other hand, the user can redo some or all of these undone changes.

**The help facility** presents information on a specific subject in one or more help frames, using the window display technique. The editor supports a maximum of two windows on the screen at any given time. When help alone is requested, the menu panel is displayed, allowing the user to select the area in which assistance is needed. DisplayWrite/370 provides different levels of help. Help on selected menus and Message help facilities are provided.

**Tailoring** Most features of DisplayWrite/370 can be modified by the user. For example the PF key setting or the colors of the screen may be changed. These features are defined in profiles. Profiles can be changed, or new profiles can be created.

**Split screen** is supported for viewing two different documents or two versions of the same document at the same time. The document to be edited will appear in the top half of the display. The document in the bottom half of the display can only be viewed or copied. If it is the same document, the view display will show the document with the current edit changes per the last SAVE.

**Compatibility with Document Composition Facility** DisplayWrite/370 provides an interactive formatting function, whereby the 'finished' view of the document is presented directly to the user. Formatting functions which

require two-pass processing, such as table of contents, indexing, or footnote references will not be supported. These functions may be handled by Document Composition Facility.

Under VM, DisplayWrite/370 enables the user to convert most of the RFTDCA controls into SCRIPT controls. This could be useful to combine a DisplayWrite/370 document with a Document Composition Facility document, or to print the document on all-points-addressable printers, such as the IBM 4250. Note: There is no automatic invocation of Document Composition Facility. SCRIPT controls cannot be converted to RFTDCA controls.

### **Document Processing Options**

- Create a new RFTDCA document.
- Revise an existing RFTDCA document.
- View any RFTDCA or FFDCA document.
- Interactively paginate a document.
- Transform a RFTDCA document to a print data stream.
- Specify line format and page format.
- Insert and delete text.
- Underline or emphasize text.
- Block move, insert, copy and delete.
- Tab (left, right, center, decimal, comma, colon).
- Subscript and superscript (cannot be displayed).
- Overstrike.
- Headers and footers
- Automatic line adjust (without Entry Assist).
- Auto hyphenation
- Global search and replace
- Find and change text (multi-directional).
- GoTo (page number, line number).
- Change font.
- Instructions (Insert Controls)
- Define and enter escape sequence.
- Multiple formats (line, page, document, alternate)

### **Linguistic support**

- Spelling verification
- Spelling correction assistance
- Automatic hyphenation
- Synonym support (English only)
- Grade level analyzer (US English only)

**Language dictionaries** provide spelling verification, spelling correction assistance, automatic hyphenation, synonym support and grade level analyzer.

- US and UK English, legal, and medical

- French and Canadian French
- German (Spelling correction assistance is limited at this time to non-compound words.)
- Italian
- Spanish
- Danish (Spelling correction assistance is limited at this time to non-compound words.)

Synonym information is based on the American Heritage Dictionary Database, Roget's II, The new Thesaurus, owned by Houghton Mifflin Company and used with permission. (c) Copyright Houghton Mifflin Company 1982

**National language support** for all menus, help screens and user messages is provided. Brazilian Portuguese, Canadian French, Danish, Dutch, English, French, German, Italian, Norwegian, Spanish, and Swedish are supported. Support of extended character sets (up to 192 characters) is provided through the customization functions performed by each customer at installation time. This support includes both workstation character set support and printer character set support for all above listed languages including US English and UK English. National language support will become available October 1986. An announcement for each national language version will be made two months prior to its availability. Note: The 3270-PC does not provide support of all listed languages at this time. Please consult your IBM marketing representative.

**Invoking DisplayWrite/370** Under MVS and VSE, DisplayWrite/370 provides an application programming interface and can be invoked by a CICS application that provides the appropriate interface and maintains a document library. This application programming interface allows the calling application to request the creation of a document, viewing of a document, printing of a document on an SCS printer, and the transformation of a document into a 1403 data stream, a 3800-1 data stream, or Document Composition Facility, which is processed so that the transformed document is returned to the calling application via the application programming interface.

In addition, a sample is provided to demonstrate independent invocation and operation of DisplayWrite/370. This sample can be used to demonstrate the invocation of DisplayWrite/370 by the Integrated Processing of Data and Text (IPDT) licensed program. Under VM/SP and VM/SP HPO, DisplayWrite/370 is invoked from the CMS command line.

**Document Interchange** DisplayWrite/370 documents can be interchanged in either RFTDCA or FFTDCA by all products supporting the Document Content Architecture.

- DisplayWrite/370 makes no distinction between the document origination and document types. The same mode of operation is provided whether it is created by DisplayWrite/370 or it is received

from other systems or products using the Document Content Architecture standard set of controls.

- Any RFTDCA-defined structure fields, structures, single/multi-byte controls, and/or the parameter setting in these controls, if not supported by DisplayWrite/370, will be kept intact in the data stream to preserve the data stream integrity as required by the Document Content Architecture.
- Compatibility documentation describing the level of interchange between DisplayWrite/370 and other IBM products will be available at availability of DisplayWrite/370.

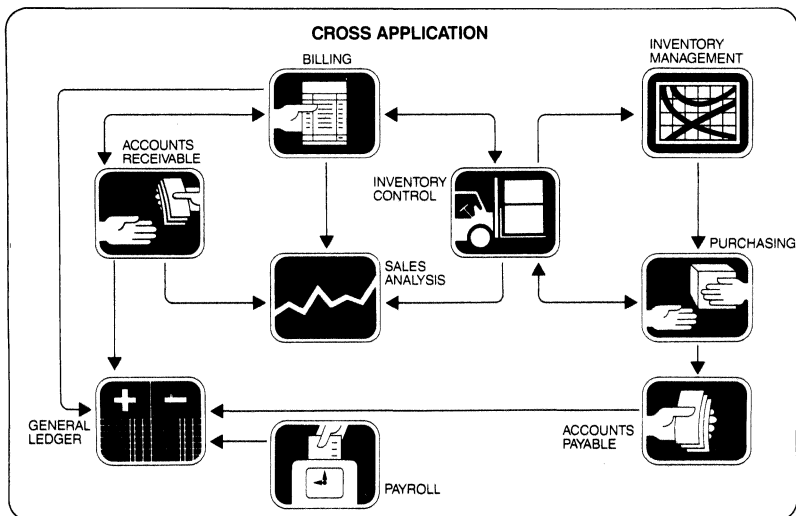
These publications may be obtained; contact your marketing representative.

- Introducing DisplayWrite/370 - An information manual for general readers, including customer executives, data processing personnel, and professional end users. It contains short descriptions and example panels illustrating the functions provided by DisplayWrite/370.
- Getting Started with DisplayWrite/370
- Using DisplayWrite/370
- DisplayWrite/370 Installation and Administration
- DisplayWrite/370 Diagnosis Guide

## Distributors Management Accounting System

**DMAS** is a family of ten integrated applications that can handle the business requirements of a distributor or other company with similar needs.

Billing	5727-D41	\$4,070 or \$233 monthly
Accounts Receivable	5727-D42	\$2,805 or \$163 monthly
Inventory Control	5727-D43	\$3,685 or \$214 monthly
Sales Analysis	5727-D44	\$3,685 or \$214 monthly
Purchasing	5727-D45	\$7,810 or \$447 monthly
Inventory Management	5727-D46	\$6,435 or \$371 monthly
General Ledger	5727-D47	\$2,805 or \$163 monthly
Accounts Payable	5727-D48	\$2,805 or \$163 monthly
Payroll	5727-D49	\$3,795 or \$220 monthly
Cross Application System Support	5727-D4A	\$1,815 or \$106 monthly



**Environment:** DMAS can be used with any model System/36 with capacity for a company's expected business volumes, data base size, and operating requirements. A file sizing program is available for guidance in selecting the most appropriate configuration.

The minimum system configuration

- 128k of main storage
- 29.1 megabytes of disk
- At least one work station with 1920-character display screen, 83-key conventional keyboard, and ten-key numeric pad
- A system printer (line or serial)
- Cross Application System Support

### Potential Benefits

DMAS is a full set of functionally rich applications that can be used by inexperienced computer users. It is a proven product that has evolved through use on the System/32, System/34, and is now being used by over 1000 customers on the System/36.

- Can be tailored at installation time.
- Can add function through file maintenance and re-tailoring.
- Source code (at additional cost) and logic manuals are available to facilitate modification using RPGII.

Easy To Use

- Installation is guided by the Installation Made Easy manual.



- Operator education is provided by a manual and practical exercises that are part of the application.
- User Guides provide task oriented instructions for using the menu procedures.
- Online 'help' is provided for each application.
- Response line support is available through an 800 number.

#### Safe To Use

- Accounting controls ensure accuracy.
- Back-up and recovery procedures protect files.

#### What to do next ...

- Review the application highlights.
- Order General Information GH30-0741 on the Order Card in back.
- Order DMAS from your IBM Branch Office.

**Cross Application System Support** The group of procedures and programs required to install and support the other applications.

- Protect against possible accounting and system errors by periodically saving master files on diskette or tape and storing all transactions on disk between backups of master files.
- Determine whether a program can be safely restarted after a problem such as a power failure. If restart cannot take place, the system tells the operator what steps to take. If it is necessary to reprocess transactions, the master files saved on diskette or tape can be reloaded and the transactions can be reprocessed without rekeying them.
- Activate applications and choose from certain application functions.
- Allocate or resize file space, within the limits of disk storage capacity, to accommodate increases in business volumes.
- Delete inactive records and compress information on disk to free up space on the system.
- Keep the system up-to-date by displaying the modification level of the current application set and providing capability to apply appropriate updates.
- Restrict access to certain procedures and functions within the financial applications for security reasons. Available for General Ledger, Accounts Payable and Payroll only.

## **Billing**

- Interface with other applications: Accounts Receivable, Inventory Control, General Ledger, and Sales Analysis, if installed
- Entry of customer orders for up to twenty companies at a printer
- Order acknowledgements and picking lists
- Order status inquiry
- Flexible pricing, including price and cost conversions
- Cost and profit information calculation
- Credit limit checking
- Broken-case accounting
- Cash and C.O.D. sales tracking
- A full range of Billing reports
- Over-the-counter order entry for rapid invoice preparation
- Billing Sales Data detail records available for use with your own programs for things such as warranty tracking, commission accounting, or special analysis

## **Accounts Receivable**

- Interface with other applications: Billing, General Ledger, and Sales Analysis, if installed
- Entry of customer charges, payments, and adjustments for up to twenty companies
- Balance-forward and open-item accounting
- Two accounts receivable cycles of any length, such as weekly and monthly
- Accounts receivable aging, with four past due aging periods
- Late charge calculation
- Multiple and combined statements for consolidated companies
- Aged Trial Balance on demand
- Deferred statement printing
- Credit limit checking
- A full range of accounts receivable reports

## **Inventory Control**

- Interface with other applications: Billing, Purchasing, Inventory Management, and Sales Analysis, if installed
- Entry of inventory transactions
- Support for up to forty warehouses
- Item costing
- Handling of broken-case quantities
- Exception flagging
- A full range of Inventory Control reports

## **Sales Analysis**

- Interface with other applications: Billing, Accounts Receivable, Inventory Control, and Inventory Management, if installed
- Profit reported by customer, item, item class, and sales representative
- Daily sales by invoice for each salesrep
- Monthly summary of sales by salesrep, item, item within item class, and customer within salesrep
- Extended sales analysis showing sales by item class for each customer for each salesrep
- Inquiry into item and customer sales and profit history

## **Purchasing**

- Interface with other applications: Inventory Control, Inventory Management, and Accounts Payable, if installed
- Entry of purchase orders for up to twenty companies
- Browse feature for ordering by scanning a vendor's product line
- Accepts suggested orders from Inventory Management
- Allows orders for items and vendors not on file
- Purchase order printing and tracking
- Messages for buyer, receiver, vendor, and approver kept with an order
- Records receiving activity with automatic posting of receipts to Inventory Control files
- Purchase order status inquiry
- Partial-receipt processing
- Approval and closing processing
- A full range of purchasing reports

## **Inventory Management**

- Interface with other applications: Inventory Control, Sales Analysis, and Purchasing, if installed
- Calculation of forecasts, order points, and suggested order quantities with highlighting of out-of-bounds conditions
- Evaluation of discount structures and other savings opportunities
- Forecast of item demand for regular as well as seasonal, promotional, and trending items based on demand patterns and trend factors you set
- Builds suggested purchase orders
- Calculates yearly costs for each vendor line at various ordering intervals from which you can select an optimum ordering frequency
- Compares the amount of theoretical average inventory investment required to operate at specified service levels with the actual inventory investment
- Various ranking reports help you pinpoint potential profit opportunities and problems. They highlight items with extraordinarily high or low stock levels and help isolate profit winners and loss leaders. With this information you are better able to determine which items or vendor lines should be monitored closely.

## **General Ledger**

- Interface with other applications: Accounts Receivable, Accounts Payable, Billing, and Payroll applications, if installed
- Separate general ledger records for as many as twenty companies
- Twelve-month or thirteen-period fiscal year
- Departmental and company income statements
- Assignment of unique journal reference numbers to transactions
- Accounting controls and balances, including audit trails
- Current and year-to-date income statements plus balance sheets as a by-product of your routine bookkeeping
- Compares current data with previous fiscal periods or with budget, showing the percentage of variance
- Separates month-end reporting and file updating to simplify closing procedures
- Security safeguards for protection of records

## **Accounts Payable**

- Interface with other applications: General Ledger and Purchasing, if installed
- Entry of payables transactions
- Support for up to twenty companies
- Online inquiry into the Open Payables file
- Entries for Cash Disbursement Journal and Purchase Journal
- Cash or accrual accounting method
- Multiple distribution of invoice charges
- Compares invoice totals with distribution totals for accuracy
- Selects invoices for payment by date, vendor number, and for a particular invoice
- Invoice payment held until release is requested
- Check reversal corrections
- Display totals and aging of open invoices
- Credit memos and check reconciliation
- Summary of cash requirements showing items selected for payment and funds needed

## **Payroll**

- Interface with General Ledger
- Entry of payroll data to produce weekly, biweekly, semi-monthly, and monthly payrolls
- Support for up to twenty companies in a multi-company organization
- Calculates gross and net pay for hourly, salaried, and executive employees applying various pay rates
- Calculates FIT, FICA, and most state and local tax deductions
- Prints 941-As and W-2s
- Deductions for employees working in several states, counties, cities, unions, jobs, or daily shifts
- Application of shift pay as either a direct or an indirect expense

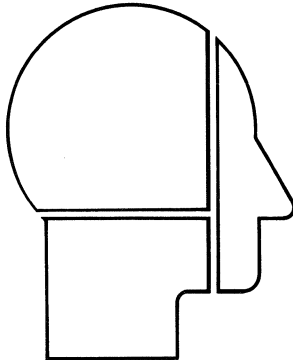
- Identification of checks above a maximum you specify
- Security clearances to protect payroll data
- Calculation of most state disability insurance deductions based on your data
- Calculation of miscellaneous deductions by percentage, fixed amount, hourly rate, upper limit, and cycle at frequencies you specify
- Adjustments for taxable and non-taxable payroll amounts

See DMAS in the Keyword section for additional pricing detail.

## **Expert System Environment 5798-RWP \$25,000 or \$1,250 monthly**

### **Description**

Expert System Environment is the generic name for a family of complementary programs. The Environment provides the facilities for developing and executing expert systems. Since this is a new area of data processing, a brief explanation of expert systems is a good idea.



Expert systems is a new and emerging area of computing that offers great promise for the future. In the short time that the concept has been under research and development (mostly in the academic community), it has demonstrated the potential for addressing problems that have been, up to this point, unapproachable. This class of problem has not been undertaken because:

- The amount of effort (cost) required was too great.
- The amount of time required was too much to be useful.
- The risk of the undertaking was too large.

- The scope of the problem to be solved was simply too enormous to undertake using conventional programming concepts.

The expert system concept introduces some different ideas about applying human knowledge to computers. Using traditional programming development facilities, human knowledge was coded into programs using the environment of the chosen programming language. This was a labor intensive practice and resulted in an arrangement of software and user procedures that were complex, unfriendly and difficult to modify.

The expert system approach keeps the specification of human knowledge separate from its execution so it's understandable, changeable and manageable. This encourages the introduction of expert human knowledge in human language so that it is understandable to one versed in the area of expertise.

This Environment provides the tools to realize many of the benefits of an expert system. It results in a potential reduction in time, cost and risk in the development and maintenance of expert system applications. It offers the opportunity to attack some of those problems that have accumulated on the backlog that have defied implementation.

For each operating environment (VM or MVS), Expert System Environment supplies two complementary programs: Consultation and Development. The Development Environment is used to build knowledge bases, and the Consultation Environment is used to consult (query and retrieve) them.

The **Development Environment** is used by human experts and associates to introduce expert knowledge and reasoning into the environment. Remember—expert is not the same as genius. Rather, expert is intended to include anyone with valuable or useful knowledge:

- Statisticians
- Doctors
- Lawyers
- Engineers
- Scientists
- Educators
- Analysts
- Businessmen
- Clerks
- Tradesmen

The **Consultation Environment** is used by a non-expert to obtain expert knowledge and analysis. The use of non-expert here is somewhat misleading because it is interesting to note that the list of potential experts above (with the exception of the last) would make a perfect list for the consultation product users. This should indicate that an expert in one field is a candidate to use the consultation facility in another, or, of course, in one's own field in an area of less familiarity.

Expert systems have many appearances. One is identified as Structured Selection. Expert System Environment in its natural appearance is a structured selection expert system tool. After the consultation user selects a domain of interest, the expert system leads in the discovery.

## Highlights

- **Interchangeability of Knowledge Bases** Knowledge bases developed in one environment (VM or MVS) can be ported to the other for development or execution (consultation). This means complete interchange of knowledge base contents and application logic. If external procedures are used and operating system services employed, this non-knowledge base part of the application will not interchange without intervention.
- **English-like Rules** The rules are entered into the knowledge base using an English-like syntax rather than programmer-eze. This means that training non-programmers to develop solutions to complex problems is practical. Experts themselves can interact with the system. Knowledge base builders can concentrate on actually solving the problems, rather than spending their time trying to learn a new programming language.
- **Special Editors with Automatic Checking** Specialized editors have been provided to facilitate the entry and modification of knowledge base items and contents. The editors are tailored for the specific objects being examined, and have built-in error checking to notify the builder of errors that might occur. This results in high productivity during the development process.
- **Explanation During Consultation** During a consultation session, the user can request explanations to clarify requests for information, or to understand how the system arrived at a particular solution. During a dialog the user can ask "Why?" before answering any question, and the system will construct a logical explanation for its request. The user may ask "What?" to receive a more detailed explanation of the question being asked. After a result has been computed, the user can ask "How?" and will receive a detailed logical explanation of the reasoning behind the computer's solution.
- **Debugging Support** During the testing of a knowledge base the builder can request a trace, which will provide a roadmap through the reasoning process to aid in making corrections and iterations. The knowledge base can be printed for offline checking.
- **Two Inference Processes** The system supports backward chaining, which is a process of deductive reasoning from a goal to determine what facts must be determined (e.g., be asked the consultation user) before the result can be established. This is especially useful for selection, configuration, diagnosis, classification or evaluation problems.

- It also supports forward chaining, which is a data-activated reasoning technique. In forward chaining the discovery of a fact initiates the processing of a rule(s), which points to other facts causing the initiation of more rules, etc. This is especially useful for monitoring processes.
- **Incremental Compilation of the Knowledge Base** The objects entered into a knowledge base are compiled into a form that reduces the amount of space required for storage and improves processing performance.
- **Problem Decomposition** Expert Environment disassembles a complex problem into more manageable subproblems. These can be solved independently, which improves productivity and the quality of the resulting application. This is known as interactive development.
- **User Profiles for Defaults** The use of profiles allows defaults for many builder and consultation attributes to be invoked automatically. This reduces the need for specific designation each time, without reducing flexibility.
- **Rerun and Undo Capabilities** A consultation can be stored and rerun. During the rerun any answers previously given can be changed. It is possible during a consultation to undo or replace a previously entered response.
- **Access to External Procedures** The developer of a knowledge base can invoke an external procedure to acquire facts from an external source such as a CMS file or data base, to store results in a file for subsequent processing, or to actually perform intermediate processing.
- **User Designed Screens** The system creates default screen formats for all dialog and presentation of results to a user during a consultation. The knowledge base builder interactively designs formats to override the screens provided by the system.
- **Online help** is available in both environments.

## Operating Environment

**Programming considerations** for the two products are very similar and will be treated together. Expert System Consultation Environment and Development Environment operate under VM Release 3 or later, or under MVS Release 3.8 or later. They require the Graphical Data Display Manager Release 3 or later (5748-XXH), and the Pascal/VS Compiler Release 2.2 (5796-PNQ). Expert System Consultation is prerequisite to Expert System Development.

Display terminal device support is the same for both products—through GDDM. The systems have been developed and tested with the 3277, 78 and 79 display terminals, and IBM PC with the 3278/79 emulation card, but



should operate with other display terminal devices supported by GDDM that have these capabilities (or equivalent):

- 24 (or more) line by eighty (or more) column display
- Twelve program function keys
- English EBCDIC keyboard

### Publications

General Information Manual	GH20-9597
Consultation Environment User Guide	SH20-9606
Development Environment User Guide	SH20-9608
Reference Manual	SH20-9609

#### For VM

Consultation/Development Availability Notice	G320-0828
Consultation Environment Installation Guide	SH20-9605
Development Environment Installation Guide	SH20-9607

#### For MVS

Consultation/Development Availability Notice	G325-0040
Consultation Environment Installation Guide	SH20-9618
Development Environment Installation Guide	SH20-9619



## VS FORTRAN Version 2 Compiler, Library and Interactive Debug

5668-806 \$750 monthly

VS FORTRAN Version 2 Library 5668-805 \$200 monthly

Version 2 is an enhancement and extends the capabilities of Version 1. Version 2 Release 1 supports the 3090 Vector Facility, provides improved Library math routines and enhanced full-screen interactive debug support.

### Highlights

- Contains all of the function and usability available in Version 1.4.1 Compiler and Library (5748-F03).
- Supports the 3090 Vector Facility by:
  - Identifying vectorizable source statements.

- Selecting from among the vectorizable source statements, those most likely to optimize performance.
  - Compiling highly optimized vector object code for those source statements selected.
  - Compiling highly optimized scalar code for the remaining unvectorized source statements.
  - Performing all of the above without requiring modification of the original source program.
  - Providing a report summarizing vectorization performed.
- Provides new mathematical routines, yielding improved accuracy and performance.
  - Contains all of the function and productivity assistance in Version 1.2 Interactive Debug (5668-903).
  - Provides enhanced full-screen interactive debugging support with a source listing window capability, animation of statements being executed, several new and modified commands, batch debugging support and enhanced hook support.
  - Enhances the multitasking facility to provide execution of vector and scalar tasks under the supported operating systems.
  - Eases compile-time restrictions on size and complexity of programs.
  - Supports the Engineering and Scientific Subroutine Library (5668-863), providing further utilization of the 3090 Vector Facility.
  - Supports programs which have been converted by the FORTRAN Language Conversion Program (5668-864).
  - Provides FORTRAN programmers with the ability to specify additional information to the Compiler as to which segments of the program should be vectorized.

**Environment:** Version 2 can compile scalar and vector code, and execute scalar code under:

- VM with or without HPO (5664-173) Release 3 or later.
- MVS all releases, with or without TSO/E.
- XA all releases, and Data Facility Product (DFP) Version 1 (5665-284) or Version 2 (5665-XA2), with or without TSO/E.

Version 2 can execute vector code under:

- XA 2.1.3 Vector Facility Enhancement (5665-291 or 5740-XC6) and DFP Version 1 (5665-284) or Version 2 (5665-XA2), with or without TSO/E.
- VM HPO 4.2 with Vector Facility Support.

Order the General Information GC26-4219 by sending in the Order card in the back of this book.

## Hospital Information System/36



**Hospital Information System/36** is an online communications and information system designed specifically for small to medium sized hospitals. It is highly specialized to provide hospital administrators and their staff with communications services and tools similar to those used in larger institutions.

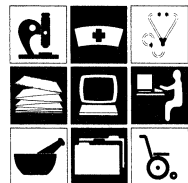
A network of workstations and printers links admissions, outpatient areas, ancillary departments, nursing stations, medical records and the business office. The interactive, user-oriented system assists hospital personnel in performing information processing and communications tasks. Nurses, technicians, admitting office, business office, and medical records personnel use workstations to enter patient information such as service orders, test results, payments, etc.

Once the patient information is entered, all authorized users have ready access to it and it can be communicated to other departments. The patient's information, including current diagnosis, Diagnosis Related Group, and prospective payment is updated online and made available to authorized personnel.

Information entered at the departmental level is used to produce patient care and financial operational reports. These reports enable management to analyze profits, losses and costs by such categories as DRG, procedures performed, patient diagnosis, physician and average length of stay. They enable close monitoring of cost and revenue trends and potential problems.

There are four modules:

- Admissions, Discharge, Transfer/Census, Patient Billing, and Accounts Receivable (ADT/PBAR)  
5727-AB1 \$16,500 or \$750 monthly
- Order Communications/Results Reporting (OC/RR)  
5727-AB1/01 \$15,000 or \$750 monthly
- Medical Records Abstracting (MRA)  
5727-AB1/02 \$14,300 or \$650 monthly
- In-Service Training (IST)  
5727-AB1/03 \$5,000 or \$750 monthly



The ADT/PBAR, OC/RR and MRA applications are integrated and use the same data base, so staff only has to enter the data for each patient once. These features can save your employees a lot of time and increase their productivity. The In-Service Training module offers ongoing training

capability to your staff without affecting the integrity of your production data base.

The applications are designed to be modular, so you don't have to implement the entire system at once. You can introduce more functions according to your individual priorities. The Admitting and Patient Billing module serves as a base and must be installed first. You may then install the other applications as you need them.

HIS/36 is designed for non-data processing personnel to help them be more productive in their jobs. The system is table-driven with codes that let you tailor operations without modifying the programs.

Security controls prohibit unauthorized entry, or access to sensitive information. No function in the system can be used without a proper security code assigned by management.

A hard copy audit trail at the end of each day shows all transactions entered and maintenance functions performed. These transactions are identified with the initials of the person who performed them. And the system has backup and recovery procedures to protect your data in the event of a power failure or natural disaster.

**Benefits** to your hospital include reduced clerical tasks and increased employee productivity, improved revenues and cash flow, decreased costs, tighter management control and most importantly quality patient care.

## **ADT/Patient Billing and Accounts Receivable**

### **Highlights**

#### Online Admissions and Registration

- Access to previous patient and guarantor information by name or number
- Inpatient pre-admission and admissions
- Outpatient/Emergency registration
- Printing and reprinting of admission/registration forms
- Ability to change an emergency registration to an inpatient registration
- Room transfer and bed swap processing
- Discharge processing for inpatients and outpatients
- Census inquiries by nursing station, religion, doctor and patient name
- Daily generation and automatic posting of inpatient room charges
- Room availability inquiries
- Ability to cancel admissions or discharges entered in error
- ADT statistical recaps and reporting
- Demand bill inquiries

#### Online Patient Billing and Accounts Receivable

- Posting of charges, payments and adjustments to patient accounts at time of entry
- Entry of insurance verification information
- Insurance proration with coordination of benefits
- Demand, cycle and final billing based on user-defined parameters
- Insurance claim form preparation (UB 82)
- Patient and guarantor receivables inquiries by name or number (summary or detail)
- Daily and monthly revenue and statistics reporting
- Accounts Receivable statement preparation
- Aged receivables reporting
- Bad debt processing and reporting

## **Order Communications/Results Reporting (OC/RR)**

### **Highlights**

#### Online Order Communications

- Order entry via hospital-defined menus of ancillary services
- Regeneration of repeat orders
- Automatic posting of patient charges as a by-product of order entry
- Routing of patient orders to printers in ancillary departments (order form with label)
- Reprint capability for patient orders
- Order status inquiry by patient, nursing station, department
- Option to hold all orders for verification before transmission to ancillary departments
- Hospital defined result formats for printing of orders
- Hospital defined destination of order printing for each item (e.g., print at nursing station or print at ancillary department)
- Message switching between hospital departments

#### Online Results Reporting

- Reentry of results or acknowledgement of services performed via hospital defined result formats
- Routing and printing of results at nursing station where inpatient is currently located (or designated printer for outpatients)
- Reprint capability for patient results
- Option to post patient charge for a service at time of order entry or at result/acknowledgement time
- Result inquiry by patient
- Daily and post-discharge result recap reporting for insertion in patients' charts
- Patient flowsheet displayed or printed showing user-defined result categories for a patient for over a period of time (trend analysis)

## **Medical Records Abstracting (MRA)**

### **Highlights**

- Profile driven
- Concurrent DRG utilization review
- All data entry, editing for valid codes, and verification is done online
- Can interface with the ADT/PBAR module or stand alone
- Allows online entry of key elements/indicators relating to the patients' stay
- Supports the entry or correction of admitting diagnosis
- Calculates the DRG as well and major diagnostic category utilizing the HCFA (Yale) grouper
- Validates diagnosis or procedure with compatibility of patient's age and sex as well as compatibility of diagnosis and procedures
- Supports primary diagnosis and up to 9 additional diagnoses with a modifier
- Store up to 99 operating room encounters per patient, with as many as 7 procedures (1 principal and 6 additional) per encounter
- For each procedure the system supports 1 principal surgeon and up to 5 assistant surgeons
- Provides the ability to enter additional physician data such as consulting physician
- Protects against duplicate abstracts
- Monitors the abstract completion process allowing corrected, additional or missing information to be entered directly on the screen
- Completed abstract information automatically updates the Medical History file and is available for inquiries and reporting
- Supports abstracting for ambulatory surgery patients
- Patient abstracts with "expired" as a discharge status code automatically prompts an optional screen for supplemental information to be added for the Medical History file
- Medical History file supports online inquiry by patient name, medical records number, discharge date, abstracting status, ambulatory surgery date or patient billing number
- Patient charge data captured by ADT can be merged with medical record abstracting information in the Medical History file to prepare various statistical, clinical and financial reports for internal and external reporting to third parties, PSRO, etc.
- Abstracts unsuccessfully processed by the grouper will be printed on a report and flagged and displayed immediately
- Supports the ability to rank multiple diagnosis according to financial significance
- Monitors and reports the abstracting activity by abstractor
- Supports storing of nursing acuity point values for comparisons based on acuity (for historical purposes)

## **In-Service Training (IST)**

### **Highlights**

- Implementation tool for the ADT/PBAR and OC/RR modules
- Executes concurrently with the ADT/PBAR and OC/RR modules
- Provides ongoing training capability

### **Publications**

Software Update	GB30-2494
Report Display Brochure	GB30-2496
Program Description/Operations Manual	SB30-7016
Medical Records Abstracting Reference Guide	SB30-7018
Medical Records Abstracting User's Guide	SB30-7017
In-Service Training User's Guide	SB30-7049



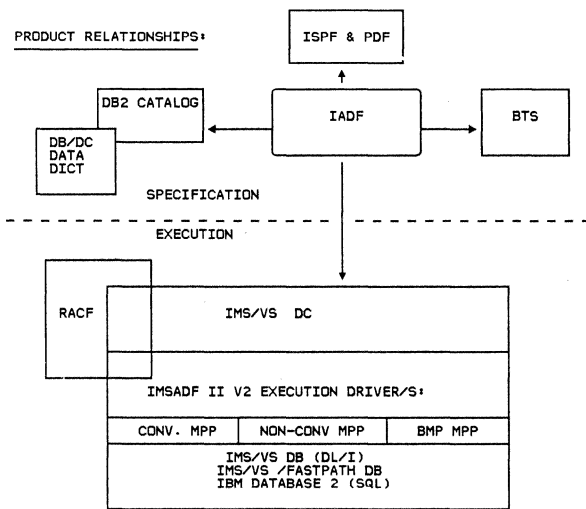
## **IMS Application Development Facility II**

5665-348 \$54,890 or \$2,750 monthly

**IMSADF** is a general purpose programming system for generating and executing DB/DC applications. It provides facilities for developing, maintaining and extending IMS online or batch data base/data communication applications.

It supports three IMS online message processing modes: conversational, non-conversational and batch. It supports batch DL/I processing.

Primary users of IMSADF are data processing professionals, such as application analysts, application programmers, systems programmers, data base administrators and those involved in developing complex IMS online DB/DC applications.



## Highlights

- Application definition with ISPF
- Interactive application prototyping
- Interactive screen definition
- Interactive test and debug (BTS/Trace facility)
- Default and user defined screens support
- Easily developed data base maintenance transactions
- Standard transaction architecture
- Common execution modules
- Common session manager
- IMS message processing (conversational, non-conversational, batch)
- Full data base access support
- IMS Fast Path
- Data dictionary support
- Database 2 catalog support
- RACF sign-on
- Secondary transaction support
- Data base partitioning
- Shared data base support
- Data independence extensions
- Security extensions

## Potential Benefits

- Increased application developer productivity
- Decreased application developer IMS skill level and investment
- Shorter development schedules
- Increased user organization participation and satisfaction
- Reduced application maintenance
- Increased application flexibility for change and maintenance
- Reduce or eliminate conventional language programming



IMSADF includes facilities for (1) Entering, storing, updating, displaying and reporting application definitions. (2) Executing the defined application. (3) Data dictionary support. (4) Sending and receiving messages among users and groups of users. (5) Simple text processing.

Using IMSADF involves two phases: generation and execution. During generation, applications are defined by entering specifications. These specs are stored in program libraries or DL/I data bases. During execution, the supplied application drivers interpret the specs and execute the application according to them.

Applications are implemented by defining and generating the application's specifications. Static specifications describe data base access paths, data base segments, fields, transaction processing flow, input screen and application logic. Dynamic specifications include descriptions of user transaction authorization (user profile), user mailbox, message text, application logic, data editing and validation.

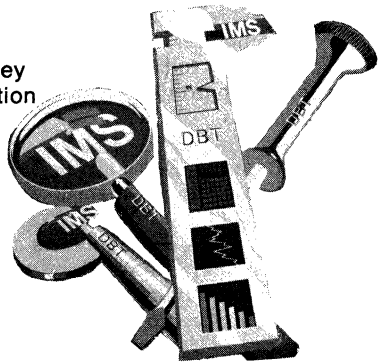
The IMSADF standard processing functions allow users to develop many applications free of procedural language code. Standard processing is extendable through exits, to handle very complex application processing requirements or to meet installation specific requirements. Generalized functions used by the drivers to perform applications may be used as services by user extension routines. User extensions (exit routines) may be written in COBOL, PL/I, or Assembler. The following exits for user extensions are supported:

- Transaction specific application logic exit
- Audit exit for installation supplied generalized routines to support multiple applications
- Sign-On (lockword) exit for session initiation processing
- Sign-Off exit for session termination processing
- DL/I exit routine invoked before and after IMSADF application data base DL/I calls

## **IMSADF II Version 2 Enhancements**

- ISPF interactive application definition dialogs
- Static rules definition
- Message and profile definition
- Screen image definition
- Entering high level audit language statements
- Invoking high level audit language processor
- Invoking rules generator
- Invoking rules documenter
- Prototyping
- Testing using BTS
- Test to production migration
- Invoking data dictionary extension ADFin and ADFout utilities
- Invoking DB2 RGLGEN utility
- DB2 support

- Help screen facility
- Data dictionary extension enhancements
- Auditor performance improvement
- RACF sign-on enhancement
- High level audit language table definition
- Automatic twin processing
- IMS 1.3 Fast Path data base access
- National language support
- Dynamic multilingual application support
- Kanji support
- Partition composite rules load module by TRXID
- Inverse clustering of TRXID
- Reduce logging
- Trace control by TRXID and LTERM
- Sign-on common communication area
- Entry and mapping of TSEG keys
- Key audit date validation
- Enhanced audit exit support
- PLITDLI support
- A Single path 255 byte concatenated key
- SPA user communication areas definition
- Switch transaction mode on SOM
- ISPF install dialog
- Terminal default installation options



## **Data Base Tools 5668-856**

**IMS System Utilities/Data Base Tools (DBT)** is a combination of utilities in a single package. It includes predecessor product functions plus improvements to those functions and enhancements including Fast Path Data Entry Data Base support.

Predecessor programs that form the base of DBT are SMU II, IMSMAP, VSAMZAP and High-Speed Sequential Retrieval. DBT is designed to assist system programmers and data base administrators in the management, monitoring, tuning and repair of IMS/VS and Fast Path Data Entry Data Bases.

### **Full Function Space Management Utilities**

- **HD Pointer Checker** This monitors space utilization and detects and reports physical or logical direct pointer problems. It runs as an OS batch job and can use as input either an image copy of the data base or actual VSAM, OSAM or ISAM data sets. Printed dumps of data base blocks can be provided and formatted in a way that will be easy to use while debugging data base errors. Each dump includes a map of all

segments and free space detected in the block. The Checker also provides reports that describe the condition of your data bases. You can use them for tuning and performance analysis

- **HD Tuning Aid** This program produces reports that are useful when you are tuning HDAM data bases and provides information that is helpful for converting a HIDAM to HDAM. Using this information along with the statistics from the Pointer Checker suggests when the data base needs reorganization. Before reorganizing you can use this data to evaluate how DBD changes would affect randomization.
- **HDAM Physical Sequence Sort/Reload** This utility takes the output from HD Reorganization Unload utility, or one of the HSSR Unload utilities, and passes the root keys through the user's randomizing routine. It then sorts on the randomized address. The sorted file is used as input to the HD Reorganization utility, and reload is done in physical sequence. HDAM Physical Sequence Sort/Reload is most effective during a reorganization in which the physical sequence of the data is changing, i.e. the DBD is being changed. Conversion from non-HDAM data bases to HDAM data bases is made easier via this utility. This utility can produce some of the reports that the HD Tuning Aid produces.
- **DB Segment Restructure** This utility unloads and reloads data bases in order to change the structure (format) of an existing data base. When a data base design changes, the DB Segment Restructure utility can eliminate the need to write a program to reformat the segment data. The Segment Restructure program unloads a hierarchically contiguous portion of a data base to a sequential file. You can unload the entire data base, or you can specify a start SSA and an end key feedback compare string to determine a subset of the data base. A new data base can be created using the sequential file produced by the unload program as input, and structural changes can be made using the reload program.

## **High Speed Sequential Retrieval**

This feature's advanced buffering techniques and shorter path length improve performance and decrease processing time for some IMS applications. When using HSSR to sequentially retrieve data from large data bases, significant reductions in CPU, I/O and elapsed time can be achieved. You can use HSSR application programs that are supplied with DBT, and write your own HSSR batch application programs. HSSR calls yield the same results as DL/I calls.

## **Fast Path Utilities**

- **DEDB Pointer Checker** This feature scans all areas of a DEDB and reports all orphan segments, invalid pointer values and broken pointer chains. The Checker can be used with a very fast hashing algorithm or it can do slower 'full checking' to verify integrity. It also provides reports that describe the condition of your data bases. The reports are particularly useful for performance analysis and tuning.
- **DEDB Tuning Aid** This feature uses the data extracted previously by the DEDB Pointer Checker through a shared common report generation module. With the DEDB Tuning Aid you can iterate the data base modeling process, then select the physical data base attributes that meet your performance and space utilization needs. you can change such things as UOW parameter values, root parameter values, control interval sizes, number of data base areas and randomizing module.
- **DEDB Unload/Reload** This feature is capable of concurrently unloading and reloading multiple areas of an IMS DEDB. It operates independently of the IMS control region. The unload processor also can be used to unload an area a DEDB for subsequent read-only sequential processing. This approach can reduce resource requirements and elapsed time by allowing activities such as offline report generation.

## **DBD/PSB Mapper**

This is a documentation aid that produces diagrams of data base structures. It can be run with no additional user data or involvement each time an IMS DBD or PSB is changes. This procedure ensures that a current picture and description of the data base is produced each time the structure is changes in any way.

## **VSAM Zapper**

This feature can be used to verify and replace any data in any type of VSAM data set without modifying the VTOC. It can be used for both IMS and non-IMS data sets. It operates in the same manner as AMASPZAP (Superzap) and supports these VSAM data sets: KSDS, ESDS, and RRDS.

## **Who will use these tools, and why?**

These tools enable system programmers and data base administrators to provide improved performance, increased programmer and analyst productivity. This new toolkit provides ease of installation and maintenance and a comprehensive package of utilities to increase efficiency while:

- Repairing broken data bases.
- Retrieving data and reorganizing data bass rapidly.
- Zapping (modifying) data bases.

- Analyzing performance and tuning data.
- Understanding physical and logical views of data bases.

These tools provide enhanced operational improvements through ease of use and improved consistency in report formats, documentation and message handling so that you may expect:

- Better data integrity.
- Improved data base performance.
- Increased availability of data bases.
- Increased programmer and analyst productivity.

**Options** Customers may order whichever DBT features they need:

Full Function Space Mgt Utilities	\$5,555
High Speed Sequential Retrieval	\$8,645
DBD/PSB Mapper	\$957
VSAM Zapper	\$709
DEDB Pointer Checker	\$2,845
DEDB Tuning Aid	\$836
DEDB Unload/Reload	\$2,445

## Inventory Forecasting and Replenishment Modules-II

INFOREM-II Base 5798-DDR	\$15,110 or \$687 monthly
INFOREM-II Allocation 5798-DDT	\$13,550 or \$616 monthly
INFOREM-II Online Processor 5798-DET	\$15,480 or \$704 monthly

The INFOREM-II system provides solutions for a wide variety of inventory management problems that exist in many business operations. Grocery, wholesale distribution, retail, drug, manufacturing, utilities and other industries have large investments in merchandise, spare parts, maintenance materials and other types of inventories.

INFOREM-II maintains the proper quantities of these inventory items while balancing the two basic (and conflicting) inventory goals— to provide the maximum service level with the minimum inventory investment.

It is designed to be used with an existing or planned customer stock status system, which is responsible for maintaining on-hand and on-order balances plus historical sales data. The Base program may be installed independently or in conjunction with *Allocation* or the *Online Processor*.

## Highlights

- INFOREM-II uses proven forecasting techniques, which provide high levels of forecast accuracy and rapid response to demand curve fluctuations.
- INFOREM-II uses techniques that have managed inventories containing more than a million unique items, spread over hundreds of inventory locations.
- INFOREM-II requires no item history data collection or lengthy start up process.
- INFOREM-II provides a wide selection of order decision rules, from the very simple to the most comprehensive.
- INFOREM-II provides an extensive simulation capability to enable the user to evaluate how INFOREM-II would manage present inventories; to establish costs and benefits prior to installation; and to evaluate planned changes in inventory management strategy prior to their implementation.
- INFOREM-II's simulator also can be used to develop seasonal sales plans in distribution industry firms.
- INFOREM-II Allocation offers a comprehensive solution to the allocation (joint ordering) problem—the ability to order the proper quantities for every one of up to 1,000 items, while operating within as many as three unique constraints, (e.g., order dollar amount, order weight).
- INFOREM-II Allocation will analyze joint orders and determine which ones should be expedited and which ones can be delayed in order to optimize best specified service objectives.
- INFOREM-II's Online Processor provides easy access to all system administrator facilities via CRT display.
- INFOREM-II's Online Processor enables the buyer, purchasing agent or inventory manager to review each suggested order, both individual and joint orders; and gives the user final control over release of the order.
- INFOREM-II's reallocation capability, a feature of the Online Processor program enables the user to review any suggested joint order; to change Allocation parameters; to change, delete, or 'freeze' specific item quantities; and then to request an immediate reallocation, based on these changes.
- INFOREM-II is designed to interface with a user's COBOL, Assembler or PL/I control system.
- INFOREM-II is modular, and operates independently of the user's file design.

The INFOREM-II Base Performs these functions:

- Develops weekly and monthly seasonal demand models from historical data.
- Monitors and measures current average demand on a weekly, monthly or period basis at the individual item level, or for item groups or departments.
- Produces forecasts of future demand with allowances made for both seasonality and trend.

- Incorporates a standalone forecasting subsystem, which can be used for demonstration, training and planning.
- Develops ordering decisions on a daily, weekly or multi-week basis for restocking various types of merchandise, including the calculation of order points, order-up-to-levels and specific order quantities.
- Maintains an accurate and updated measurement of lead times at the item or vendor level, based on current experience.
- Provides a standalone simulation program.
  - Simulates the performance of an inventory system for a week, a month, a season or a full year.
  - Simulation shows the expected performance for a group of items in terms of sales, level of service and inventory requirements for the duration of the simulation.
  - Users may experiment with different policy decisions such as desired service level objectives, review time frequency etc., and observe the changes that would result from such actions.

The INFOREM-II Allocation program performs the functions of ordering a group of items (i.e., a vendor's line of merchandise) to achieve ordering constraints; while maintaining specified item and/or group service level objectives. The user can select one, two or three allocation constraints (such as weight, volume and pallet size) to control order size and monitor an additional three constraints. The group may contain up to a thousand items.

Allocation will build an order for multiple trucks (or multiple purchase orders) with a choice of priority rules to determine which items are needed on the first truck, second truck, etc.

INFOREM-II Allocation is a collection of powerful algorithms and logic designed to solve most problems involved in building a group of individual item orders while meeting various group constraints. Its features include:

- Comprehensive Level of Service Options.
- Group Service Option—Order the group based on total group service objectives, but accommodate different item service levels when building the order.
- Item Service Option—Order the group as soon as any one item needs to be reordered.
- Mixed Service Option—As in group service, order the group based on group service objectives, but when no group order is needed, show suggested item order quantities for any items that fall below item service objectives.
- Forced Order Option—Create an order, upon user demand, even though service calculations do not indicate that an order is needed.
- Complete Expedite/Delay Options
  - Estimate the number of days a group order should be expedited, or the number of days it may be delayed, in order to meet service objectives.
  - Highlight individual item expedite days for buyer review.
  - Group Orders optimizing one, two or three Variables.

- Handles constraints such as weight, volume, cube, pallets, cost, etc.
- Each constraint has a group limit (minimum/maximum) plus tolerances.
- Develops a prioritized optimization to find the best solution.
- Three additional constraints may be specified for reporting or monitoring purposes.
- Either a high or low solution can be selected for the primary constraint; e.g., weight-solve high; dollars-solve low.
- Creates up to eleven forecasts for different time supplies to develop the trial amounts to be ordered. (User has ability to customize number and size of time intervals for even greater accuracy and speed.)
- Generates all forecasts and order quantities simultaneously via high speed forecasting module.
- Selects the time supply that most closely meets the constraints, and then scales and rounds each item to develop the optimum solution.
- Provides optional maximum time supply limit by item or group.
- Provides ability to manage time supplies for perishable goods.
- Pack, Tier and Pallet Rounding.
  - Rounds orders by pack, tier and/or pallet.
  - If pallets are specified as a constraint, will optionally round to whole pallets.
  - Provides a fixed pallet option, to produce an order for exactly  $n$  pallets.
- Production of orders for multiple trucks (or multiple purchase orders) with a choice of priority rules to determine which items are to be loaded on the first truck, second truck,  $n$ th truck.
  - Used where one order at one review time would fill more than one truck.
  - Produces multiple purchase orders or recommended order quantities; one for each truck.
  - Provides for optional rounding of orders to full truck loads.
  - Includes capability for user modification of truck rounding rules.
- Selective truck loading priority criteria.
- Items can be assigned automatically to multiple trucks in one of these sequences:
  - User's master file sequence.
  - Balanced assortment; approximately equal item order quantities on all trucks.
  - Pallet order-size sequence; largest pallet orders loaded first.
  - Order quantity (units) sequence; largest item order quantities loaded first.
  - Expected stockout sequence; items with largest item order quantities loaded first.
  - Expected stockout sequence; items with largest potential value of stockouts loaded first.
  - In order of relative need; items with largest need ratios (expected stockouts/forecast) loaded first.



- In order of expedite days, items with greatest need to be expedited loaded first.
- Flexible item control within a group (vendor).
  - Allows different forecast types by item.
  - Service level and all forecasting controls are specified by item.
  - User may specify an exact item order quantity to be retained unchanged throughout the allocation or reallocation.
  - Performs correct application of item seasonality and trend in allocation.
  - Flexible review cycles.

Allocation, in conjunction with INFOREM-II Base, offers multiple review cycles that can vary by user, or by vendor. Cycles may be daily (7/week or 5/week), 3/week, 2/week, weekly, multiple weeks etc. Allocation is an optional program. INFOREM-II Base is a prerequisite.

The INFOREM-II Online Processor provides users of the Base and Allocation programs with online processing support. INFOREM-II users can improve their implementation schedules and operational capabilities by using the Online Processor. This program supports the 3279 Color Display Station through the 3270 data stream. This default mode color support significantly enhances display panel usability. The Online Processor provides three functions:

#### **Online Control File Processing**

- Fifteen display panels are provided to maintain the INFOREM-II Transfer records. These display panels provide the systems administrator and merchandisers with the ability to provide any Transfer record data fields that may not exist in the user's master file. Data may be submitted at various hierarchical business levels (e.g., lead time may be defined once for a vendor and the system will incorporate this in every appropriate item record) to minimize data entry requirements.
- Three display panels are used to manage group allocation records, providing users with the ability to create and maintain these data records, which are used by the Allocation program.
- One display panel manages effective dates and expiration dates for each type of control file record.
- One display panel establishes user access limitations (security) over all of these functions, controlling user access to specific data fields in each record.
- A display panel maintains installation and production parameters in a System Control record, which manages user label processing, transfer record overrides, and parameters required to execute the INFOREM-II production modules.

#### **Transaction Processing**

- Provides COBOL modules designed for convenient interface to existing user master files.

- Builds a valid transfer record for each item, combining user data with control file data.
- Provides an interface to and controls execution of the INFOREM-II production modules—managing one item or one group at a time and providing batch throughput efficiency.
- Creates recommended orders for online review.
- Produces a transfer record file for use in simulator runs.
- Produces a buyer worksheet to facilitate order review and recommendation adjustments.

**Online Results File Processing** Twelve display panels are provided, which perform these functions:

- Display status of all recommended orders.
- Display and modify single item or group orders.
- Display line item order detail.
- Change group item and allocation parameters.
- Order disposition management including the capability to change a group or item allocation values, and then recompute the allocation.

Online Processor is an optional program. The INFOREM-II Base is a prerequisite for this product. The Online Processor supports the Allocation program offering, but is not dependent on its installation.

The INFOREM-II Base and Allocation programs are written in PL/I. The Online Processor program offering is written in COBOL and Assembler under CICS and DMS. They are designed to operate under VSE, VS1 or MVS.

A free brochure GB21-2695 is available.

Program Description and Operations manuals are priced at

Base SB21-2696	\$34
Allocation SB21-2699	\$19
Online Processor SB21-2751	\$29

You can order publications on the Order card in back.

## Information/System

MVS Version 5665-952	\$2,705 plus \$311 monthly
VM Version 5664-952	\$2,705 plus \$311 monthly
Information/MVS 5665-955	\$305 monthly
Information VM-VSE 5668-919	\$150 monthly
Information/Management(MVS) 5665-953	\$2,950 plus \$363 monthly
Information/Management(VM) 5664-953	\$3,155 plus \$363 monthly
Information/Access 5665-267	\$3,550 plus \$747 monthly

Information/System is the base prerequisite to the other programs. They assist data processing management and technical support by providing an interactive facility for collecting, managing, displaying and reporting frequently used information. They are among the very best tools and aids for the problems associated with integrating systems management. By providing information and 'change control,' they assist the management of systems programming, central site operations and network operations.

Information/System provides the mechanism for loading, searching, reviewing and reporting user data. Its functions, utilities and reports are used by Information/MVS and Information/VM-VSE. It requires MVS and ISPF or VM.

## **Information/Management supports**

- Problem management reporting and tracking.
- Management change requests.
- Configuration management.
- Interactive inquiry and report capabilities for the above.
- Input validation to reduce data entry errors.
- Journaling of data base changes to provide an audit trail.
- Data base integrity and recovery facilities.
- Network Problem Determination problem entry.
- Integrated applications relating problem, change and configuration management information.

**Information/MVS** is an IBM-supplied data base that contains a wide range of technical information to assist the management of MVS, VM, VSE and VS1. With the Information/System's capabilities, the user can search the data base, browse retrieved records and print selected information covering many aspects of the operating systems and related subsystems, programs, components and documentation.

**Information/VM-VSE** is an IBM-supplied data base that provides information on IBM products and programs operating in VM and VSE environments.

- Users communicate with the data base via Information/System.
- Provides capabilities to inquire into the data base using keyword searches to browse retrieved records, and to print selected data.
- Information is compiled from a variety of sources, including Support Centers, Field Engineering locations and Product Development groups. Updates are sent to users monthly.

**Information/Access** extends the function of both Information/MVS and Information/Management by providing direct teleprocessing access to the most current source of information for both corrective and preventive service of IBM software products. This service data base is known as the IBM Customer Software Support Facility (CSSF). Information/Access extends Information/MVS by providing more up-to-date corrective service information and extends Information Management by enabling a customer to follow installation reported problems from occurrence to fix installation, with little or no interaction with IBM.

## **Potential Benefits**

- Increased amount of technical information available online to users.
- Less time needed to answer technical questions.
- Easy-to-use organized approach to locate technical documents.
- Centralization of problem and change management activities.
- Increased problem/change awareness and faster problem resolution.
- Easy access to current planning information and corrective service.

- Online, up-to-date configuration information for improved problem and change management.

You can request more information, GC34-2096, on the Order card in back.

## **Information System for Attorneys**

This is a set of programs that executes on the IBM System/36 in an online and interactive environment.

It is divided into four sections: Financial Management, Legal Practice, Administration Support, and Integrated Office. There are twenty applications.

The system is designed to manage and retrieve information relevant to the business management and practice management aspects of the law firm. It is modular and permits adaptation to the particular requirements of each law firm as well as preferences of individual lawyers. The impact of data relative to cash flow and the profit picture allows the lawyer to devote more time to practicing law.

The system consists of interactive user friendly modules designed to be operated by existing staff familiar with the law firm operation who may have no previous experience with computerized data processing methods; they require no programming expertise.

It is available in four different series with different capabilities:

Series 1000 and Series 800 for the System/36 (5360 and 5362)  
Series 900 and Series 700 for the System/36 PC (5364)

The following description pertains to the Series 1000. Not all of the features and application programs described here are available in the other three series. Please call your local IBM Marketing Representative for more information regarding features and functions.

### **Financial Management**

This offering is comprised of seven applications: Client Financial Management, Client Statements, Law Firm Financial Management, Lawyer Financial Management, Accounts Receivable Collections, Accounts Payable and Controller System. These are applications designed to manage and retrieve information relevant to the business management aspects of the law firm. The applications are modular and permit adaptation to the particular requirements of each law firm as well as the preferences of individual lawyers. The system control and management of vital law data

allows the lawyer to devote more time to practicing law. This comprehensive information system allows the lawyer to devote more time to the main task of practicing law.

It is designed so that data entered only once will flow between applications. This allows simple and efficient operation. The Controller System, which acts as a program monitor and bridge, is a prerequisite to all other applications. Installed only once with the first application program, it provides a base upon which all other applications are installed.

**Client Financial Management** enables the lawyer to keep track of the work performed and disbursements made for clients, to bill clients on a timely basis and to collect the accounts promptly. Potentially, write-offs and age of receivables can be reduced and cash flow and income can be increased. It addresses

- Clients and Matters
- Time
- Client/Matter Disbursements
- Client/Matter Billing Preparation\*
- Accounts Receivable
- Trust Accounting Transactions
- Client/Matter Inquiry
- Client Management Reports

Client Financial Management prepares a draft bill from which a final bill can be typed on to the firm's letterhead or statement paper. As an option, the firm can elect to use Client Statements which automatically prints final bills on the System/36 printer or on a Displaywriter.

#### Client Management Reports

- Available on demand with sequence options including:
  - Client and matter name
  - Client and matter numbers
  - Type of matter
  - Lawyer responsible for client
  - Lawyer responsible for matter
  - Lawyer assigned to the matter
  - Client files for specific lawyer
- Client and Matter Files Directory, detailing all client and matter descriptive data for open and closed client files
- Client Work in Progress Report
- Pre-billing statements, called Draft Statement of Account
- Accounts Receivable Report with aging
- Client Fee Report

#### Client Accounting Reports

- **Systems Control Totals**, used to balance the system daily and also to enable the lawyers and administrator to review the financial status of the law firm
- **Statement Register** lists all client statements, credit notes and write-offs.
- **Cash Receipts Register**
- **Client Disbursement Register**
- **Trust Account Reports**, including opening and closing balances, and transactions
- **Term Deposit Report**, including location, due dates, and interest earned

**Client Statements** was designed to give the firm the ability to edit and automatically print final billing statements from data prepared by the Client Financial Management application.

**Client Statements on System/36:**

- Edit and format statement data
- Print client statements on continuous form letterhead
- Take advantage of high speed line printing (all upper case with higher speeds)

**Client Statements to Displaywriter:**

- Edit and format data
- Provide communication path from the System/36 to Displaywriter
- Print correspondence-quality statements on standard letterhead.

If the System/36 printer option is selected for output, no additional equipment is required to print statements. If the Displaywriter option is selected, then a properly configured Displaywriter with communications features, plus a modem (or modem-eliminator), is needed in order to retrieve the prepared billing data from the System/36.

**Law Firm Financial Management** provides timely information to help control law firm overhead and cash flow, and to manage the financial status of the law firm, partnership or professional corporation. The details of all expenses and income can be recorded as they occur. Comparisons can be made to monthly budgets and previous year's figures to assist in controlling expenses and meeting billing targets.

Journal entries generated from Client Financial Management automatically integrate client data into the general ledger. A flexible general ledger account structure accommodates the law firm chart of accounts. The following traditional financial reports are available:

- Income Statement, including comparisons to prior year and budget
- Balance Sheet
- Trial Balance
- Chart of Accounts
- Expense Register
- Journal Register
- Year-to-date Analysis reviews a specific general ledger account with all related journal transactions.

**The Lawyer Financial Management** utilizes lawyer time, billing, accounts receivable and cash receipt activity to analyze lawyer productivity and fee allocation. Information is fed automatically from the Client Financial Management application. Lists of lawyer names, numbers and initials are available for references.

Reports detailing lawyer activity provide information on hours worked, effective rates, fee billing targets, fees billed and cash received. Missing Lawyer Time reports help to ensure that all time sheets are submitted and revenue is not lost when billing clients. The application also is designed to handle the time accounting of secretaries and paralegals.

These reports are available:

- Lawyer Time and Fee
- Summary Time and Fee
- Missing Time
- Lawyer Fee Allocation
- Lawyer Receipt Allocation
- Client Responsibility

**Accounts Receivable & Collections** follows up client accounts in order to reduce overdue accounts. The application has the facility to charge interest to all or selected clients on a compound or simple basis. Reminder statements printed on the law firm's letterhead may be sent on demand. Window envelopes may be used or envelope labels may be printed. Accounts Receivable Collections reports assist the lawyer in collecting client accounts. They include:

- Interest Register
- Aged Accounts Receivable
- Reminder Statements
- Envelope Labels

This module is supplemental to the Accounts Receivable portion of the Client Financial Management application. It can enhance the collection capabilities of the firm and enables the charging of interest on outstanding sums. Reminding clients of unpaid balances is a simple task. Law firms using this application may potentially reduce bad debts and increase cash flow.



**Accounts Payable** assists the firm in managing cash and helping to maintain accurate records of liabilities to vendors. Payables are recorded on an accrual basis and are fully integrated with the Law Firm Financial Management Application (G/L) and the Client Financial Management Application. Additionally, it will distribute charges by office, department, and sub-account. These features will be attractive to firms that prefer to use a more detailed financial structure. In addition, it provides the law firm with the ability to produce aged Accounts Payable reports with which the Firm can manage and control its cash flow. Some of the features of this application are:

- Vendor data entry records description data. Transaction list of all additions and changes made to the vendor data may be printed.
- Inquiry option is available to display vendor descriptive data on demand.
- Directory of the law firm vendors is available on demand.
- Vendor statistics for amounts paid and discounts taken by period may be maintained.
- Inquiry option is available which displays the amounts paid and discounts taken. Up to 999 distributions and client charges may be specified for each payable.
- Journal may be automatically posted to the General Ledger from each payables data entry job. As payables are posted the vendor amounts payable statistics are updated.
- payables due may be listed on demand. G/L and disbursement type summaries may be listed at the end of the report.
- Payments may be selected by due date, vendor or invoice number.
- Up to 998 invoices may be included in a check.
- Demand checks may be processed with or without printing a check.
- Up to 999 distributions and client charges may be specified for each check. Checks are requested from the demand check or payables options.
- Check register lists all checks issued during the selected period.
- Aged accounts payable report lists payables due, aged in periods specified by the Law Firm.
- Cash requirements report lists the payables that are due for the selected period.

- The bank-check reconciliation option is used to reconcile the demand and accounts payable checks on the bank statement. Checks that have cleared the bank and are listed on the bank statement are recorded with the date they cleared the bank.
- A bank-check reconciliation report is available which lists checks that have cleared the bank and/or checks that have not cleared the bank.

**The Controller System** is a prerequisite for all program modules. It schedules, balances, and controls the system to help ensure integrity of the data and provides detailed back-up of all information submitted. It is the program monitor and the bridge that integrates all other application modules. It is installed only once with the initial application.

**Legal Practice** is comprised of five separate applications: Statutory Dates (Docket), Research and Retrieval, Conflict of Interest, Library Management, and Litigation Support. These individual applications are each designed to manage the information relevant to a particular aspect of the law firm. The applications are structured with sufficient flexibility to permit adaptation to the requirements of each law firm as well as the preferences of individual lawyers, thus allowing the lawyer to devote more time to the main task of practicing law.

**Statutory Dates (Docket)** records and monitors important dates such as litigation, prescription and court procedural date deadlines in the law firm. Many of these dates are deadlines that require filing a document or an appearance by the lawyer.

The most frequent single cause of legal malpractice is the failure to meet statutory or procedural deadlines. With this application, the law firm is no longer dependent on a manual system or a secretary who may be absent when a statutory date becomes due. The lawyer can be automatically notified when a due date approaches.

Statutory dates may be recorded for each client file. Each statutory date is recorded with a description of the action required, a due date, a target date, the court or document number, and the lawyers responsible for and the lawyer assigned to the date.

The application prints reports listing pending dates and automatically issues special action reminders to the lawyers as the due date approaches.

Recorded statutory dates pending in the firm may be reviewed on demand by the partner in charge, to help ensure that all court and filing dates in the law firm are being met on a timely basis. This application can significantly assist in reducing the risk of professional embarrassment or legal malpractice suits due to missed dates.

**Research and Retrieval** classifies, records and retrieves client file research, opinions and precedents. Once recorded, this information is accessible to all lawyers in the law firm.

Client file research recorded in the system includes a description of the matter, the lawyer responsible, relevant subjects and statutes, and an abstract of the matter. If there is a precedent or opinion in the client file, this is also noted.

When a new matter is received from a client, the lawyer, using an inquiry terminal, determines if there is an existing precedent, opinion or research in the system relative to the new matter. The application displays or prints any appropriate file names, precedents and opinions with a description and the lawyer responsible.

The application may also assist the lawyer with a client matter to be referred or a client matter outside their area of expertise. Using an inquiry terminal, the lawyer determines which colleague worked on a similar problem and can then request the individual's assistance.

The use of the Research and Retrieval application to classify and retrieve client file research, precedents and opinions has significant potential benefits for the law firm. It can help reduce duplication of legal work, save time when working on client files and helps to ensure that valuable legal research within the law firm is not lost.

This application can also be used to record and retrieve relevant internal memorandums.

**Conflict of Interest** can record and search the names and relationships of parties involved in client files, such as parties to an action and co-ventures in an acquisition.

When a new file is opened, the conflict, client, and matter names can be registered and also searched against the existing law firm client, matter, and conflict names to help ensure the law firm does not have a conflict of interest.

Numerous conflict names may be recorded for each client file. The conflict name is recorded along with the relationship to the file, for example, co-venture, director. Conflict name information may be searched. The name in question is keyed into a terminal and the client, matter, and conflict names in the system are searched. Any similar names and their related client files display on the screen or print on Conflict Advice and are forwarded to the lawyer requesting the search. In addition, client files and their related conflict names print on a Conflict Advice and are forwarded to the lawyer requesting the search. Also, client files and their related conflict names print on a Conflict of Interest report.

**Library Management** can catalog and retrieve contents of the law firm library, thus making information easily accessible to all lawyers.

Library information traditionally stored on card catalogs can be recorded by the Library Management application. This includes information such as

titles, authors, subjects, holdings, abstract and location of books, periodicals, and conference reports.

Once recorded, library information may be retrieved in many ways. The lawyer may have a list of information available in the law firm library or may inquire via a terminal what is available on a specified subject or written by a specific author.

The application informs the firm's lawyers of recent additions to the library by printing a list of recorded acquisitions received during the current week. It also maintains a distribution list for all library acquisitions, thus assisting in routing to the lawyers information previously requested.

The application controls library services and subscriptions and can record the most recent update received. Thus, the lawyer knows whether the service being used is current.

Traditionally, the firm library is an expensive and under-utilized resource. This application can make the library more accessible to the lawyers in the firm.

**Litigation Support** helps take the struggle out of litigation documentation management.

All case-related data can be collected, organized and indexed. Once recorded, this information may be instantly retrieved as required. The information may be displayed on a terminal or printed.

Characteristics of the Litigation Support application include:

- Provisions for an effective means of control of the case documentation in all aspects from the commencement through appeal
- Central control of documents relevant to the case or supporting major contentions
- Support for lawyers in drafting and editing of briefs and other documents
- Support for effective witness preparation for cross examination
- Key-word and phrase search or index capability in supporting lawyers

Features of the Litigation Support application are:

- Common data base of documents relevant to the case with identification of all documents produced for the opposition
- Ability to retrieve documents through directories, indexes, as well as through key-words and phrase search (author, addressee, subjects, date or document type)

- Ability to identify all documents introduced as exhibits
- Identification of helpful or harmful documents
- Ability to update the document or include lawyer's work product summaries related to each document Summaries of up to 1184 characters
- Rapid retrieval of any information needed in the file during trial stage

### **Administration Support**

This offering is comprised of three separate applications: Client/Matter Records Management, Financial Schedules and Mailings. These individual applications are each designed to manage the information relevant to a particular aspect of the law firm. The applications are structured with sufficient flexibility to permit adaptation to the requirements of each law firm as well as the preferences of individual lawyers, thus allowing the lawyer to devote more time to the main task of practicing law.

**Client/Matter Records Management** provides the information to help administer and locate client files. File description information is available on a Client Directory and the system provides labels for Client/Matter file folders. Lawyers are notified of file bring-forward dates. When closed, the archives number and date-to-destroy are noted. This application reduces clerical tasks and assists in locating of physical files.

**Financial Schedules** prints detailed financial schedules on demand. It prints mortgage or amortization and present value schedules. Effective rates are also available. The factors used in calculating the schedules may be varied including the interest rate, terms of payment, starting date and monthly payment. Multiple schedules may be requested to demonstrate differences that arise from varying interest rate or payment terms.

This application provides excellent services to law firm clients by printing financial schedules instantly when required by the client.

**Mailings** records names and addresses, and prints mailing lists and envelope labels on demand.

### **Integrated Office**

This is a set of application programs that execute on the IBM System/36 in a fully online and interactive environment. It is comprised of five separate applications: Copier and Postage Disbursements; Telephone Disbursements; Disbursements from Displaywriter; Time from Displaywriter; and Time from Optical Character Reader. These individual applications are designed to help streamline the daily procedures and tighten controls for capturing client related charges and expenses, and to provide for more accurate and timely updating of client files. These more

efficient procedures and controls help ensure that client related charges do not become law firm expenses.

The applications are structured with sufficient flexibility to permit adaptation to the requirements of each law firm as well as the preferences of individual lawyers, thus allowing the lawyer to devote more time to the main task of practicing law.

**Time from Displaywriter** provides the capability of capturing time data from the lawyer, one-time entry of time data onto a Displaywriter diskette, and automatic updating of client unbilled time accounts.

The application provides edit controls to help ensure that client and matter numbers, lawyer number, time code, fee rates, and hours are valid. A time edit list prints detailing valid time entries and the corresponding client/matter file charged. Reject time entries print along with the reason for rejection, and job totals print to assist in time entry control. Corrected rejects can later be re-entered using the Time Data Entry program.

When convenient, the time entries are automatically communicated from the Displaywriter diskette to the System/36 and are validated and charged to the client unbilled time accounts.

This application requires the IBM Program Offering 5798-RPL to interface the Displaywriter to the System/36.

**Disbursements from Displaywriter** provides for one-time entry of disbursement charges onto a Displaywriter diskette and subsequent updating of client disbursement accounts.

The application provides edit controls to help ensure that client and matter numbers, lawyer numbers, disbursement codes, and amounts are valid. A disbursement edit list prints detailing all valid charges and the client and matter file charged. Reject disbursement entries print along with the reason for rejection, and job totals print to assist in controlling charges. Corrected rejects can later be re-entered using the Disbursement Adjustment program.

When convenient, the disbursement entries are automatically communicated from the Displaywriter diskette to the System/36 and are validated and charged to client disbursement accounts. 5798-RPL is required.

**Time from Optical Character Reader (OCR)** provides still another efficient alternative for collecting lawyer time data, communicating the data to the System/36, and charging to client unbilled time accounts.

The time data from lawyer time sheets is read by an Optical Character Reader and communicated to the System/36 (or alternatively communicated to a Displaywriter and then to the System/36). The application then edits the data to help ensure that client and matter numbers, lawyer numbers, time

codes, fee rates and hours are valid. A time edit list prints detailing valid time entries and the corresponding client/matter file charged. Reject time entries print along with the reason for rejection, and job totals print to assist in time entry control. Corrected rejects can later be re-entered using the Time Data Entry program. All valid entries are charged to client unbilled time accounts.

Due to the variety of copier, postage, telephone and OCR recording units and their unique specifications, it is the responsibility of the user to provide the program to interface the unit to a work file on the System/36. The format of the System/36 work file is available.

The Copier and Postage Disbursements application provides for recording copier and postage costs from a copier or postage counter device that can communicate directly with the System/36, or from a counter device that produces a System/36 compatible diskette that can be read into the System/36.

This application provides for printing job totals to assist in controlling charges, and edit controls to help ensure that client and matter numbers, disbursement codes, and amounts are valid. An edit list prints detailing valid charges, reject charges, and reason for rejection. Corrected rejects can later be re-entered using the Copier/Postage System Adjustment program.

The validated Copier/Postage charges are recorded into the appropriate client account with the date of the charge and the name of the person who operated the copier or postage meter.

Due to the variety of copier, telephone and OCR recording units and their unique specifications, it is the responsibility of the user to provide the program to interface the unit to a work file on the System/36. The format of the System/36 work file is available.

**Telephone Disbursements** provides for recording long distance telephone costs, reconciliation of telephone bills, and charging of costs to client disbursement accounts on a timely basis. Any telephone system may be used that communicates with the System/36 or produces a System/36 compatible diskette.

This application provides for printing job totals to assist in controlling charges, and edit controls to help ensure that client and matter numbers, disbursement codes and amounts are valid. A telephone edit list prints detailing valid charges, reject charges, and reason for rejection. Corrected rejects can later be re-entered using the Telephone System Adjustment program.

The valid telephone costs are automatically charged to the appropriate client disbursement account with the date of the call, number and area code called, and the person making the call.

Telephone reconciliation reports are available on demand to assist in reconciliation of telephone bills. They may be printed in a choice of sequences: by client/matter name or number, by telephone area code and number, or by date.

Due to the variety of copier, postage, telephone and OCR recording units and their unique specifications, it is the responsibility of the user to provide the program to interface the unit to a work file on the System/36. The format of the System/36 work file is available.

### Potential Benefits... for the lawyer

- Provides current client and financial information
- Reduces time spent billing clients
- Management by exception reports identify problem areas
- Reminds lawyer of time dependent obligations
- Library and client file research is accessible
- Provides more time for practicing law

for the staff

- Reduces tedious clerical tasks
- Reduces month-end work load
- Reduces staff time preparing client statements and reminder letters

for the bottom line

- Encourages prompt billing and helps reduce write-offs
- Helps reduce unbilled time and disbursements
- Assists in controlling overhead
- Helps prevent client expenses from becoming firm expenses
- Helps reduce accounts receivable and bad debts
- Assists in cash flow management
- Improved use of professional and support staff time
- Promotes greater firm efficiency and productivity

This table indicates the numbers of the various programs which are available with each of the four series. The program number is formed by inserting the prefix 5793 in front of the three-character suffix below.

1000	800	900	700	DESCRIPTION
ABZ	ABZ	AEF	ADR	Controller System
AAZ	ACH	AEQ	AED	Client Financial Management
ABA	ACJ	AEP	AEB	Law Firm Financial Management
ABB	ACK	AEN	AEA	Lawyer Financial Management
ABD	ACL	AEL	ADZ	Accounts Receivable Collections
ABE	ACN	AEK	ADY	Client Statements
ABF	ACP	AEJ	ADX	Statutory Dates (Docket)
ABG		AEW		Research & Retrieval
ABH	ACQ	AEH	ADW	Conflict of Interest



ABJ		AET		Library Management
ABK		AER		Litigation Support
ABL	ACR	AEG	ADT	Client/Matter Records Management
ABN				Financial Schedules
ABP				Mailings
ABQ				Time from Displaywriter
ABR				Disbursements from Displaywriter
ABW				Time from OCR
ABX				Copier/Postage Disbursements
ABY				Telephone Disbursements
AFX	AFZ	AFY	AGA	Accounts Payable

## Interactive System Productivity Facility

MVS 5665-319	\$690 plus \$218 monthly
VM 5664-282	\$575 plus \$189 monthly
XT/370 5668-960	\$600
VSE 5668-960	\$960 plus \$96 monthly

**ISPF** is a manager and provider of services for interactive applications. It provides control and services to support processing of interactive applications (dialogs) in the MVS/TSO, VM/CMS, PC XT/370, and VSE/ICCF environments. ISPF and its companion ISPF/Program Development Facility are designed to increase productivity in the development of applications. It is IBM's *only* general purpose dialog manager.

Dialogs are a series of screens and appropriate processing routines which provide a conversational mode of communication between the user and the computer. The major elements of a dialog are selection panels, functions, data entry panels and output display panels. As the dialog manager, ISPF provides:

- A nucleus for an engineering and scientific support system.
- An interface to the engineering and scientific programmer who needs to retrofit an interactive front end (such as data entry or query or text edit) to an existing batch application.
- A base for an information center.
- An interface to the commercial programmer that is operationally friendly.
- Functions designed specifically to construct a prototype or pilot of a desired application.

- Up/downloading from a host System/370 to a PC XT/370.
- An editor, for the purpose of composing and revising text (or programs). (As an editor, alone, ISPF is an outstanding product. However it represents a small fraction of the extensive list of ISPF functions and features.)

Selection panels are designed to allow terminal users to approach an application in a natural, comfortable way without having to learn the specific computer oriented language of the system they are using. A good example of a selection panel is the primary option menu which allows a user to select the desired processing option from a list of available facilities.

Functions perform the processing indicated by the user's option selection. Functions may be written as command procedures using CLIST in TSO or REXX or EXEC2 in CMS. Functions also may take the form of programs written in APL, COBOL, FORTRAN, Pascal or PL/I. One way to create and test these functions is through the related PDF program, which provides a model facility that simplifies the generation of many of the dialog elements for most of these languages and a test facility that helps the developer find problems during function testing.

Data entry panels usually take the form of fill-in-the-blanks screens. The user is prompted to enter information required by the application. Often, selection panels and data entry panels can be combined to reduce the number of panels displayed to the user. Data display panels allow the application to supply information to the user. Additional elements of dialogs are messages, variables, tables, and file tailoring skeletons.

A message provides specific information to the user which may concern the flow of the dialog, an acknowledgement that a request has been processed, or a warning to alert the user that additional data is required or that the entered user data is not in the required form.

A variable is a character string referred to by a symbolic name (e.g. NETSALES) and is the main means of communication between ISPF services and parts of a dialog such as functions, panels, messages, tables, and file tailoring skeletons. Dialog variables also may be used for communication between functions.

A table is an array of data used for temporary storage. Tables also may be retained for use in another dialog session and are shared among different applications.

A file tailoring skeleton is a generalized representation of sequential data that may be customized during dialog processing to produce an output file. The customization consists of the selection of lines to be included in the output, and the substitution of variables obtained from functions, panels, or tables.

When a dialog is commenced, ISPF facilities display a hierarchy of screens based on user selection. The first screen in a dialog could be a menu showing the options available to the user. Based on user selection, appropriate processing functions would be invoked.

Depending on the design of the dialog application, the system would continue a conversation with the user via a predefined series of screens and messages. The messages on the screens could request information from the user or provide information. As appropriate, the application also could provide guidance when the user needs assistance. If the dialogs were written as a data entry application, the system would maintain the user's entered data in tables or file skeletons.

ISPF provides split screen support, permitting the user to run two applications at the same time. A two, three or four-way split is obtainable on a 3290.

The organization of a dialog is determined by the nature of the application. The sequence of screens or functions is flexible and is defined by the dialog designer.

## **Environment**

- These IBM display terminals are supported:
  - 3276 Models 2, 3, 4, 12\*, 13\*, 14\* (\* Requires VCNA when under VM.)
  - 3275 Models 2 and 12\*
  - 3277 Model 2
  - 3278 Models 2, 3, 4, 5
  - 3279 All models in four-color compatibility mode
  - 3290 Information Panel
- XT/370
- VSE/ICCF AF 3.5 or later
- SSX Release 3 or later
- MVS/TSO:
- VM/SP CMS
- MVS and VM format, display and print text using the Document Composition Facility with the foreground environment feature.

## **Options**

- MVS/TSO: TCAM 10 with ACF/TCAM 2.4 or ACF/VTAM 1.2, 2 or later
- VM/SP CMS: To spool output to another VM, RSCS is required.
- Audible alarm feature on 3270 terminals.
- MVS: 3284, 3286, 3287, 3288, 3289 Printers (Requires TSO DSPRINT.)
- Program Function Keys (Although not required, program function keys are recommended to help improve user productivity by reducing the number of keystrokes otherwise required to enter ISPF commands).
- For additional terms and prices, see yellow page 4-4.

- Note: ISPF/PC (EZ-VU) for the Personal Computer although not compatible with host ISPF, provides similar ISPF functions.

### **Who will use ISPF?**

ISPF can be a very effective tool for constructing a prototype of a terminal oriented application regardless of how it will be designed, programmed or installed. The predicted *usage* is simulated (to the user), even though formal design and programming have not begun. The knowledge gained from providing a rapid implementation of applications functions is extremely valuable input to formal design. Often it far outweighs the cost of constructing the ISPF pilot. Experience has shown that the ISPF prototype sometimes is adequate in itself, and very little formal design or programming is required.

ISPF will be used primarily by programmers who are developing applications which will be used by those who are not necessarily data processing professionals. The time required to write these applications can be substantially less than conventional programming. This is because the interface to ISPF is very easy to use. Although not all applications will be appropriate for delivery under ISPF via dialogs (very high transaction rate applications for example), many applications designed for moderate transaction rates are suitable for ISPF development.

A common and desirable use of ISPF is to run the Program Development Facility for programmers developing applications in COBOL, FORTRAN, Pascal, PL/I etc. Programmers may take full advantage of the features of the 3270 Display Terminal and the built-in tool kit to speed program preparation and maintenance.

### **Potential Benefits**

ISPF encourages the creation of dialogs and dialog functions to produce menu applications. Applications produced with ISPF often can be developed in substantially less time than would be required by traditional methods. Results from the prototype almost are certain to improve the quality of design for a conventionally programmed application. An extensive study, recently was presented at GUIDE on the use of prototyping interactive and batch IMS applications, including 'Joint Application Design Sessions'. (Texas Instruments)

A TSO system with ISPF can perform better than a TSO system without it. A performance analysis will show that fewer system interactions occur in a system with ISPF, because the use of the full screen allows multiple actions on a single screen.

Since ISPF provides standardized procedures for screen management and the use of program function keys and interface standards between dialog elements, the use of ISPF dialogs, once learned, is the same for all dialog applications. This standardization not only improves productivity for the application developer, but also improves productivity for the application

user. Finally, for the growing number of installations running various combinations of MVS/TSO, VM/CMS, PC XT/370, VSE/ICCF, and SSX/VSE, ISPF provides common interfaces to these systems and allows dialog applications developed on one system to be executed on another.

Request these free publications on the Order card in back:

GC34-4041	ISPF/MVS General Information
GC34-4036	ISPF/VM General Information
GC34-2078	ISPF/VSE General Information
GC34-2172	What's New in ISPF?
GC34-2169	ISPF Product Reference Booklet

## ISPF Program Development Facility

MVS 5665-317	\$3500 plus \$500 monthly
VM 5664-285	\$3290 plus \$470 monthly
XT/370 5664-172	\$900
VSE 5666-281	\$800 plus \$125 monthly

**ISPF** and its companion PDF can aid development of various types of applications, including dialogs. They use display terminals in an interactive environment to assist with many programming tasks. They are designed to increase user productivity in the development of applications by taking advantage of features of the 3270 display terminals. They contain special functions for development and the use of interactive applications (dialogs).

Some of these functions were in the predecessor program, System Productivity Facility. PDF is an ISPF dialog that can help increase programmer productivity by simplifying frequently performed programming tasks. It also provides browse and edit services that may be invoked from user applications. The PDF application may be used by individual programmers, each working on a separate project, or by a group of programmers working on a common project.

### Highlights

- Multilevel programming library support allows maintenance and tracking of program segments at different versions or levels.
- Full-screen, context editing allows multiple additions and changes to information on a screen with one interaction with the host system. The most frequently used editing functions are invoked using simple, one-character commands.

- Models help a user develop dialog panels, messages, function routines, file skeletons, and tables.
- Scrolling in any direction of source data, text and listings is implemented. Also provided is location of data by character string or line number.
- Utilities, including the Library Management Facilities, to specify and maintain libraries and data sets are available.
- An interface links to standard language processors (compilers, assemblers and linkage editors or loaders. These processors may be invoked interactively or as batch jobs.
- Facilities that assist a user during the test of dialog applications are included.
- Documentation preparation assistance consists of text editing facilities, and an interface to the Document Composition Facility (Script).
- Online tutorial for instruction and reference is provided. This feature is especially valuable for the new or occasional user.

PDF provides interfaces to these MVS programs and object code generated by them for foreground and batch execution:

Assembler	available with MVS
Linkage Editor	available with MVS
TSO Assembler Prompter, foreground only	5734-CP2
COBOL Compiler and Library	5740-CB1
TSO COBOL Prompter, foreground only	5734-CP1
COBOL Interactive Debug, foreground only	5734-CB4
VS/FORTRAN	5734-FO2
VS/FORTRAN Interactive Debug, foreground only	5668-903
PL/I Checkout Compiler, Rel 3	5734-PL2
PL/I Optimizing Compiler, Rel 4	5734-PL1
PL/I Resident Library	5734-LM4
PL/I Transient Library	5734-LM5
PL/I Optimizing Compiler & Library	5734-PL3
PASCAL/VS Compiler	5796-PNQ
Document Composition Facility (Script), foreground only, with the Foreground Environment Feature	5748-XX9

For VM, internal interfaces are provided to the RSCS Networking program (5748-XP1). It is not required to operate PDF, but must be installed if spooled output is to be sent to another node on the network. PDF provides interfaces to these VM programs and object code generated by them for interactive and CMS batch execution:

VM/370 Assembler	available
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	with VM
COBOL Compiler and Library	5740-CB1
COBOL Interactive Debug, foreground only	5734-CB4
VS FORTRAN	5734-FO2
VS FORTRAN Interactive Debug	5668-903
PL/I Checkout Compiler Rel 3	5734-PL2
PL/I Optimizing Compiler Rel 4	5734-PL1
PL/I Resident Library	5734-LM4
PL/I Transient Library	5734-LM5
PL/I Optimizing Compiler & Library	5734-PL3
PASCAL/VS Compiler	5796-PNQ
Document Composition Facility (Script), foreground only, with the Foreground Environment Feature	5748-XX9

PDF provides interfaces to these VSE programs and object code generated by them for batch execution:

Assembler	available with VSE
Linkage Editor	available with VSE
Full ANS COBOL Compiler and Libraries	5746-CB1
VS/FORTRAN Compiler	5748-FO3
PL/I Optimizing Compiler & Libraries	5736-PL3
RPG II Compiler	5746-RG1

ISPF is the only prerequisite to PDF.

Note: The ISPF/PDF PC Editor provides editing functions for the PC that are, in most cases, exactly the same as those provided in the host environment by ISPF/PDF. The screens are identical where possible. Host editing functions can be off-loaded to the PC. See the ISPF/PC article for more information.

### **Who will use PDF?**

Because it was designed to allow a user to take advantage of the features of 3270 display terminals, PDF is especially attractive to application programmers for creation and maintenance of source programs and program libraries. Programmers also would use it to enter and maintain text for program documentation.

PDF provides special features for developing dialogs. Models help a user develop dialog panels, messages, function routines, file skeletons and tables. Dialog test facilities guide the user during the testing of the application.

Finally, a user whose primary job is the preparation and maintenance of documents would use PDF in conjunction with the Document Composition Facility (Script).

## Potential Benefits and Value Areas

The entire menu design and library management facilities are architected for improved programmer productivity. In one customer study presented at GUIDE, the predecessor SPF product produced a forty percent increase in the average number of lines of code produced per programmer. The dialog model and test facilities of ISPF/PDF can reduce the time required to implement dialog applications.

For the growing number of installations running various combinations of MVS/TSO, VM/CMS, PC XT/370, VSE/ICCF, and SSX/VSE, the PDF program provides compatible interfaces to all.

IBM studies have shown that a system with full-screen editing facilities will use less system resources than a system using line editors. The full-screen design of PDF allows multiple lines of code to be entered or changed in a single system interaction that would otherwise require multiple interactions with a line editor.

During application development using traditional techniques, compiler listings and test output must be printed on hard copy to allow the programmer to correct source errors and review test results. Through a combination of the browse and split screen facilities of PDF, compiler and program listings can be reduced, saving not only the cost of the paper involved, but also the direct cost of the printing and distribution of listings to the individuals involved. The availability of listings at the terminal shortly after a compilation or test run without the delay involved in printing and list distribution contributes *significantly* to programmer productivity.

You may request a demonstration from your IBM Branch Office. Use the Order card in back to request these free publications:

GC34-4041	ISPF/MVS General Information
GC34-4036	ISPF/VM General Information
GC34-2078	ISPF/VSE General Information
GC34-2172	What's New in ISPF?
GC34-2169	ISPF Product Reference Booklet

Additional articles have appeared in the IBM Systems Journal: System Productivity Facility, Volume 20, 1, and Full Screen Testing of Interactive Applications, Volume 22, 3. Request reprints from your Branch Office.



## MAPICS II

This family of nineteen applications offers a competitive edge in managing money, machines, material and people. Manufacturers now have the ease-of-use advanced planning and control system necessary to increase productivity and reduce costs.

Each application has a main menu from which you choose the desired function. You will find the highlights of each application, its main menu options, and a brief discussion of information flow later in this description.

### Highlights

- Closed loop manufacturing planning (MRP II).
- Display station data entry with immediate editing and error messages. You correct errors interactively.
- Financial reporting and updating by company for up to twenty companies.
- Save/restore for master files and data entry files on tape, disk or diskette.
- Concurrent online data entry and file maintenance for multiple applications through multiple workstations.
- Online 'help' text for each display screen for all applications on System/36.
- Installation documentation includes questionnaires for each application. The system is tailored to your specific operation.
- Procedure documentation includes detailed runsteps for every menu option.
- Inquiry into master files is concurrent with data entry.
- Security functions and audit trails are built in.
- Batch/lot control and operation yield expand MAPICS II usage to the process industries.

These are the applications for the System/36. Except for those asterisked, they are available for the System/38.

- General Ledger (GL)
- Accounts Payable (AP)
- Payroll (PR)
- Financial Analysis (F/A)
- Accounts Receivable (AR)
- Order Entry & Invoicing (OE&I)
- Inventory Management (IM)
- Inventory Management for Process\* (IMFP)
- Product Data Management (PDM)
- Master Production Schedule Planning (MPSP)
- Material Requirements Planning (MRP)
- Production Control & Costing (PC&C)
- Capacity Requirements Planning (CRP)
- Location/Lot Management\* (L/LM)

- Purchasing\* (PUR)
- Forecasting (FCST)
- Sales Analysis (SA)
- Data Collection System Support (DCSS)

Cross Application System Support ties the other applications together and provides for the common functions.

You can think of MAPICS II as covering four functional areas. While specific applications are usually associated with a certain area, some are associated with more than one area.

**Financial** (GL, AP, PR and F/A) These applications offer a practical approach to the record keeping and analytical requirements. They meet generally accepted accounting practices and management controls. You can fit them into your business environment as a MAPICS II financial accounting system or with other MAPICS II order processing, advanced manufacturing or process applications. You can use them in a decentralized operation with workstations located in various departments, or in a centralized operation where all work is concentrated in a single location.

**Order Processing and Accounting** (AR, OE&I, IM and SA) MAPICS II takes a practical approach to customer order processing, beginning with order entry, acknowledgments, pricing algorithms, and backlog management, and continuing through preparation of shipping documents and invoices. These applications are designed specifically for a workstation system, allowing you to move the power of the computer to the work, rather than vice versa.

**Advanced Manufacturing** (IM, PDM, MPSP, MRP, PC&C, CRP, L/LM, PUR, FCST and DCSS) The use of computerized manufacturing planning and control systems is commonplace for large and small companies alike. Reduction of work-in-process inventories, increased manufacturing productivity, more effective planning of material requirements and work center capacity are but a few of the many benefits of using these advanced manufacturing applications.

**Process** (IMFP, PDM, MPSP, MRP, PC&C, CRP, PUR and FCST) With the addition of such features as inventory batch/lot control and expanded use of yield factors, both for planning and costing, the many benefits of the MAPICS II advanced manufacturing applications are now available to the process industries.

While you can install most applications in any sequence, there are some exceptions:

- Cross Application Support is a prerequisite for all applications.
- Financial Analysis requires GL.
- Material Requirements Planning requires IM and PDM.
- Production Control & Costing requires IM.
- Capacity Requirements Planning requires IM and either PC&C or PDM.

- Location/Lot Management requires IM.
- Purchasing requires IM.
- Forecasting requires IM.
- Sales Analysis requires OE&I or IM or AR.
- Master Production Schedule Planning requires IM, PDM, and MRP; OE&I and FCST are recommended.

Inventory Management for Process satisfies the requirements for IM. L/LM requires IM only, not IMFP. Do not confuse this prerequisite list with interfaces. There are far more interfaces in MAPICS II than indicated here.

### **General Ledger..... The center of your accounting system**

- Accepts transactions from the AP, PR, F/A, and AR applications.
- Accumulates journal history online and archives history to diskette or tape.
- Reports or inquiries obtained from journal history.
- Double-entry accounting throughout.
- Transaction audit trails from source of entry to period-end closing.
- Accounting year established by each company's choice of first fiscal month or period.
- Account balances stored for twelve months or thirteen periods.
- Recurring journal entries can be retained on diskette for entry each period.
- Multiple financial statement formats.
- Both departmental and company financial statement formats.
- Offline diskette data entry.
- Create new chart of accounts by copying from existing companies.

### **Main Menu Options**

- Journal processing
- Demand reports
- Fiscal period close
- Year-end close
- File maintenance
- File listings
- Period status
- Journal history

**Information Flow** You enter General Ledger information through a display station or it can be passed from the AP, PR, F/A, or AR applications. The application produces the various worksheets, audit listings, trial balances, and listings for review. Finally, the Statement of Changes in Financial Position Worksheet and Income Statement are printed.

When all transactions for a period have been entered, the period-end cycle starts. At year end, the Year-End Initialization and Fiscal Year-End Audit Listing are printed.

## **Accounts Payable..... Improved control of cash flow**

- Accepts prepaid invoices, miscellaneous invoices, and invoices and credit memos with multiple detail lines.
- Selects payment by individual invoice, due date, vendor number, or by paging through the Open Payables file at the display station.
- Warns against exceeding a maximum check amount.
- Writes checks and includes a standard check format with a remittance advice stub.
- Reconciles canceled checks.
- Either accrual or cash accounting.
- See total payables due on specified due dates or for a specific invoice or vendor.
- Recurring expenses can be retained on diskette for later entry.
- Transfers data to the General Ledger or to PC&C for transactions from outside operations and miscellaneous charges; or to IM or IMFP for cost adjustment transactions.
- Accepts entry of invoice line items for nonemployee compensation and prints Federal 1099 forms at year end.
- Offline diskette data entry.

## **Main Menu Options**

- Payables processing
- Cash disbursement processing
- Check reconciliation
- Demand reports
- Monthly general ledger entries
- Year-end close
- File maintenance
- File listings
- Inquiry

**Information Flow** You enter invoices and credit memos through display stations. The application produces an open payables listing to aid in payment selection. When the items due for payment are selected, a cash requirements report is printed. If you decide to continue with payment, the application produces checks and the cash disbursements journal.

When you receive the bank statement, you enter the information from the canceled checks to perform check reconciliation. At the appropriate time in invoice entry and check printing, the application passes transactions to the GL, PC&C, and IM applications if they are installed.

## **Payroll..... Faster, simplified processing and productivity measurement**

- Hourly, salaried, weekly, biweekly, semimonthly, and monthly pay.
- Regular hours, time-and-a-half, double-time, double-time-and-a-half, triple-time, and negative hours (for correction).
- Individual rates, special rates, shift differentials, taxable adjustments, and nontaxable adjustments.
- Special pay for bonuses or commissions.
- Miscellaneous deductions, whether they are fixed amounts, based on hourly rates, or percentages, while recognizing upper limits.
- Scheduled as one-time or automatic, every week, every two weeks, once a month, or twice a month.
- Payoffs for terminated employees and reversals (paychecks never cashed).
- Union deductions reported by union.
- Attendance time balanced to hours actually worked.
- Statutory deductions such as Federal Income Tax and FICA. Also handles most state, county, and local taxes from tables you supply.
- Writes checks and includes a standard check format with an earnings statement stub. Also reconciles canceled checks.
- Displays an employee's personnel data, year-to-date earnings, and tax data.
- Directed deductions and wage garnishee (System/36 only).
- If PC&C is installed, time can be reported in minutes as well as hours; also milestone operations (System/36 only).

### **Main Menu Options**

- Time/adjustment entry
- Payoffs
- Posting
- Calculation
- Checks and reports
- Monthly union report
- Monthly general ledger
- Quarterly/year-end processing
- Check reconciliation
- File maintenance
- File listings
- Inquiry

**Information Flow** You enter payroll information through a workstation; it also can be received from the DCSS application. Costing information can be sent to the PC&C application. At the end of a pay period, you select the employees to be paid. The application then calculates gross earnings, subtracts deductions, prints the paychecks and several reports, and passes transactions to the GL application.

When the bank statement is received, you enter information from the canceled checks to perform check reconciliation. Each quarter and at year end, the required government reports and forms are produced.

## **Financial Analysis..... Ratios and budgeting give you the edge**

- Extends MAPICS from a record keeping system to a financial reporting and analysis system.
- Automatic journal entries simplify creating period-end and recurring journal entries, and redistributing account balances.
- The 23 financial ratios put financial information into a different perspective for year-to-date values, five prior periods, and comparisons to industry averages.
- Automated fixed asset accounting calculates and maintains depreciation for your fixed assets.
- Financial Statement Report Writer helps you define special reports using General Ledger account balances.

## **Main Menu Options**

- Automatic journal entries
- Budget preparation
- Financial ratios
- Fixed asset accounting
- Report writer
- File maintenance
- File listings

**Information Flow** Financial analysis data is entered through the display station or it is retrieved from the GL application. The depreciation journal entries are passed to GL. Also, new budgets are posted to GL when they are approved, and batches of automatic journal entries are passed to GL for further processing. When period depreciation is calculated or when an asset is retired, the appropriate registers and journals print.

At year-end, the Fixed Asset Reset Depreciation Balances print. This resets the depreciation balances and sets up the new depreciation schedule calendar. On demand, you can inquire into fixed asset descriptions and depreciation schedules.

## **Accounts Receivable..... Pinpoint your collection efforts to reduce loss**

- Online application of cash, adjustments, and miscellaneous cash receipts
- Interactive entry, edit, and correction of customer invoice summaries
- Balance-forward and open-item accounting
- Accounts receivable aging including future aging
- Service charges for open item and balance forward customers
- Credit limit checking
- Aged Trial Balance on request
- Month-end closing selectively by company

## **Main Menu Options**

- Transaction processing
- Month-end closing
- Statements
- Delinquency notices
- Aged trial balance
- Customer inquiry
- Master file processing

**Information Flow** You enter invoice summaries for those not produced through the OE&I application along with payments and adjustments into the workstation. The application then prints the Cash Receipts and Adjustment Journal, transaction register, and invoice register.

At month-end, accounts are aged, and statement records are created for later printing. On request, you can print aged trial balances, delinquency notices, paid item lists, and customer account status reports.

## **Order Entry & Invoicing..... Improved customer service**

- Interactive entry, edit and correction of customer orders
  - Standard order and item comments and standard special charges
  - Item availability review with options to allocate
  - Alpha lookup on customer name and item description
- Online file maintenance of master files and customer orders
- Blanket order support with up to 24 releases
- Entry time or invoice time pricing
- Credit limit checking
- Automatic creation of back orders
- Immediate printing of invoices for new orders
- Picking lists for open orders or new orders
- Bills of lading
- Work station printer support for picking lists, bills of lading, and invoices
- Standard options for end items
- Credit memos for returns and allowances
- Pricing structure includes
  - Contract prices selected by contract and item number
  - Quantity-price break discounts
  - Operator-entered special or one-time prices
  - Pricing unit of measure conversion
  - Trade discounts based on customer
  - Discount or markup prices calculated for any item with percentages automatically selected or manually keyed as overrides

## Main Menu Options

- Order processing
- Inquiry
- Reports
- Monthly close
- File maintenance
- File listings

**Information Flow** You enter orders at the workstation. The application can print the results of order processing and invoicing in many forms, including: picking lists, bills of lading, invoices, update registers, order acknowledgments, the inventory transaction register, tax reports, various worksheets, and order reports.

## Inventory Management..... Increase return on inventory investment

Interactive entry, edit, and correction of inventory transactions, including

- Immediate update.
- Multiple transactions per display.
- Shortage checking for entered receipts.
- Simplified component issue transactions.
- Exception flagging
- Cycle count and regular physical inventory
- Multiple warehouse support
- Perpetual inventory record keeping
- Item costing (average, last and standard)
- LIFO/FIFO valuations
- Order release for purchase and manufacturing orders
- Blanket order support for purchase orders
- "Replan" flagging for use by MRP application
- Component backflushing upon production receipt
- Calculated average lead time
- Online component availability checking for manufacturing orders

## Main Menu Options

- Inquiry
- Reports
- Transaction processing
- Order release and closeout - P.O./mfg.
- Physical inventory
- Period closing activity
- File maintenance

**Information Flow** You enter inventory transactions: receipts, issues, shipments, and adjustments. Order release processing is done at a work station. The application output includes inventory transaction register, audit lists, shortage lists, item price lists, stock status, inventory analysis reports,



physical inventory reports, LIFO/FIFO reports, and reorder reports. At month end, month-to-date totals are reset, as well as year-to-date totals at year end.

### **Inventory Management for Process..... Expand inventory control to the process environment**

- Adapts the physical layout of individual warehouses to the location numbering system.
- Records and controls stock by multiple locations within a warehouse.
- Identifies and tracks batch/lots on a per item basis.
- Detail history files by order, item, or specific lot number.
- Up to 99 bulk storage areas.
- Reports empty locations or bulk storage areas.
- Monitors quality control status, regardless of the location of a shipment.
- Specific Quality Control area is built in.
- Helps prevent using unapproved stock by stockroom personnel.
- Stock transfer for both interwarehouse and interlocation movements.
- The goods received note (GRN) system provides a full audit trail of receipts entered against purchase orders and invoices.
- Tracks non-inventoried items, such as office supplies and computer expendables.
- Allocates to a particular batch/lot, as well as location.
- Provides for inspection on receipt items.

*Note:* All the highlights listed for the Inventory Management application apply to this application also.

### **Main Menu Options**

- Inquiry
- Reports
- Transaction processing
- Order release and closeout - P.O./mfg.
- Physical inventory
- Period closing activity
- File maintenance

**Information Flow** The information flow is the same for this application as for IM. The additional function provides for more output, including: GRN reports and item QC and batch/lot controls.

### **Product Data Management..... A uniform data base for product and cost records**

- Standard options for products are maintained.
- Maintains pending bill of material changes by using effective dates.
- 'Same as except' bills of material or routings.
- 'Mass replace' one component with another in every bill of material that uses the original component.

- 'Mass delete' a component from every bill of material that uses the component.
- Automatic notification to MRP so bill-of-material changes can be reflected in the material plan.
- Selective costing to cost new items or items with incomplete costs.
- Bill of material structuring on a batch quantity basis, as well as for a parent item quantity of one.
- Yield loss at the 'per operation' level.

### **Main Menu Options**

- Inquiry
- Reports
- Costing
- File Maintenance

**Information Flow** You can load records to the files from diskette or add, change, or delete them from a work station. The application updates the master files and produces many manufacturing reports, including: routings, where-used lists, bills of material, work center master lists, feature/option lists, item master lists, operation cost sheets, and cost summaries to mention a few.

### **Master Production Schedule Planning..... Good planning supports your business goals**

- Groups and maintains items within a production family.
- Helps identify items to be included in a family.
- Aggregates (summarizes) item planning data to the production family.
- You can interactively develop family plans that reflect desired production and inventory targets by period.
- Develop family plans in either costs or units.
- Test the production targets against critical resources required by the family.
- Provides inquires to measure plan performance against actual production items sold and inventory levels.
- Interactively develop item production plans using family production targets as guidelines.
- Three-year planning horizon based on 12 or 13 periods per year.
- Critical resources profiles by master scheduled item and production family items from the product structure and routing files.
- Resource testing of family production targets and master production schedules.
- Item lead time calculation and exception reporting against the lead times used in MRP.
- Planned orders based on an item's dependent demand and specified source of independent demand.
- Frozen, firm, and free planning zones.
- Cutoff time fence separating strategic and tactical planning prevent planning beyond a specified date.

- Available to promise.
- Master schedule generation interactively or in batch.
- Generation includes time-phased allocations and quantity-based lead time functions.

### **Main Menu Options**

- Production planning
- Master schedule planning
- Resource profile management
- Available to promise
- Change/display horizon dates

**Information Flow** Master scheduling starts from item production plans, forecasts, customer orders, or manually entered firm planned orders from a work station. The application processing includes: summarize demand and inventory information about separate items into production families, create production targets, schedules, and trial plans. The application output includes: master production schedules, planning reports, resource profiles, and exception reports.

### **Material Requirements Planning..... Convert your production schedule into a material plan**

- Can use MPSP's master scheduled orders to plan material for component items.
- Provides a master scheduling function that creates orders based on requirements forecast, if you do not have MPSP.
- Convert forecasts into requirements to meet sales demand.
- Online review and update of planning information.
- Two modes for planning: generation and net change.
- Daily or period requirements.
- Generates requirements for standard product feature/options from planning ratios in the bill of material.
- Includes current and planned bill of material changes.
- Time-phase allocations.
- Standard lead time or quantity-based lead time.
- Several lot sizing formulas.
- Override the application's normal order planning for planned orders, making them firm planned orders.
- Provides a review for only those items with exceptions (order recommendations), only those items that have been replanned, or all items.
- Select data by planner or items and bypass reviewed and trivial exception items.
- Traces material requirements to the planned orders which required them (pegging).
- Tests component availability before an order release (simulated staging).

- Release manufacturing orders matched to customer orders for items using features and options.

### **Main Menu Options**

- Run status display
- Planning run selection and initiation
- Additional planning reports
- Item inquiry - by item
- Item inquiry - by planner
- Order release/review
- Financial analysis
- Master level item schedule
- File maintenance
- MRP assistance menus

**Information Flow** You can manage forecasts, end-item requirements, firm-planned orders, and open orders from the work station, as well as start planning runs and release stock replenishment orders. After you complete a planning cycle, you can review interim reports, make changes, and finally when you are satisfied with the results, start a full planning run to establish the plan for subassemblies, parts, and materials. The application prints various planning reports and order recommendations describing the action to be taken as a result of the planning run.

### **Production Control & Costing..... Gives you a clear picture of plant activity**

- Tracks detailed costs of production scrap.
- Split routings for split orders.
- Allows additions, deletions, and modifications to operations and miscellaneous costs.
- Calculates average times for each operation to build standard routings or to compare to standard routings.
- Status reporting of orders shows overdue conditions and variances from plan.
- Calculates current work load at each work center.
- Monitors queue at each work center and compares current to planned queue size.
- Analyzes work center efficiency.
- Handles outside operation costs as purchase costs.
- Either forward scheduling or backward scheduling of manufacturing orders.
- Plan for yield loss at the operation level.

## **Main Menu Options**

- Inquiry
- Report analysis
- Order release
- Shop packet creation
- Shop activity update
- Order closeout
- File maintenance
- Work list generation

**Information Flow** Released orders, material costs, miscellaneous costs, move transactions, labor transactions, status changes, schedule changes, inventory receipts, and closed orders come from other MAPICS II applications or are entered at a work station.

The application schedules released orders, creates shop packets and other records to be used to track order status. The many output reports include: audit lists, work (dispatch) list, shop activity updates, production and accounting summaries, work-in-process totals, and critical orders. When orders are closed out, the various closeout reports are printed.

## **Capacity Requirements Planning..... Generated workload and online updating**

- Generate workload from any order: open, planned, firm planned, or customer.
- Considers work-in-process for loading actual time remaining for started operations.
- Online review and update of planning parameters.
- Online review and update of up to 36 variable length load periods.
- Separate loads for planned and open orders.
- Accumulate firm planned orders as either planned or open order load.
- Work center capacity for a given day or range of days.
- Backward scheduling of open manufacturing orders.
- Adjust queues for orders ahead or behind schedule.
- Online inquiry of load detail information.

## **Main Menu Options**

- Planning run control
- Inquiry
- Reports

**Information Flow** Before starting a CRP planning run, you should have completed an MRP planning run, and IM order release, and a PC&C work list generation. You enter the planning parameters, select the types of orders to be used as work load during the planning run and start work load extract at a work station. After reviewing the results of this intermediate processing, you can start the CRP planning run. You can analyze the

results of the run using the available reports and inquiries to identify capacity and scheduling problems by work center or by department. You can then make changes in capacity or work load and repeat the process to validate the new manufacturing plan.

### **Location/Lot Management..... Effective batch/lot control**

- Especially useful to producers of food, pharmaceuticals, and chemicals
- Product recallability through lot tracking to meet government regulations
- Stock and control items in multiple locations within a warehouse
- Control of shelf life and first-in-first-out (FIFO) usage of material
- Quality control tracking and recording for manufactured and purchased items, and quality status of items subject to shelf life
- Transactions for non-inventory and service items
- Allocate a specific inventory stock item from a warehouse location or material lot.
- Trace batches of raw material from receipt to finished goods to customer order, and vice versa.
- Adapt your physical layout of individual warehouses to the location numbering system.
- Stock control by multiple locations within a warehouse, and multiple items in a location
- Batch/lot identification and tracking
- History files provide details by order, item, or specific lot number.
- Up to 99 bulk storage areas
- Report empty storage locations or bulk store areas.
- Helps prevent unapproved stock use by stockroom personnel.
- Stock transfer for both interwarehouse and interlocation movements
- Transaction history maintained online.
- The goods received note (GRN) system provides a full audit trail of receipts entered against purchase orders and invoices.

### **Main Menu Options**

- Inquiry
- Reports
- File listings
- Transaction processing
- File maintenance

**Information Flow** In the L/LM transaction and allocation processing cycles, you enter the order allocations, QC and non-inventory transactions, and GRN data at the work station. The application assigns the items to locations and prints the audit lists and transaction registers.

At month end, the month-to-date totals are reset and the stock status is printed. The reports you can have printed include: items waiting inspection, physical/cycle counts, transaction analysis, batch/lot review, GRN report, and inventory valuation.

## **Purchasing..... More value and productivity from the purchasing department**

- Requisition entry and control
- Purchase order history inquiry
- Purchase order revision printing
- Extensive dock-to-stock transaction editing
- Validation of vendor and freight invoices
- Debit memos
- Purchase order status reporting and inquiry
- Purchased item receiving routing
- Prioritized dock-to-stock work lists
- Quotation control system
- Vendor analysis
- On-demand cash requirements analysis
- Buyer worksheet reporting

### **Main Menu Options**

- Reports
- Inquiry
- Purchase order processing
- Accounts payable processing
- File maintenance

**Information Flow** You enter requisitions at a workstation or they may be created with information from the MRP application. The Purchasing application prints requisition analysis reports to help you make and prioritize purchasing decisions. You can enter the purchase orders at a work station, or they can be drawn from open requisitions or from the planned order file in the MRP application.

Material received through the Purchasing system updates IM with the on-hand and on-order status, either in an interactive or batch mode. Once material has been received, the Invoicing programs compare what has been invoiced against what was ordered and received before passing the information to the Accounts Payable application.

As purchase orders are closed out, the appropriate information is sent to a history file for future analysis. In addition, vendor performance statistics are updated with the latest calculation based on timeliness of delivery, quality, and quantity received.

### **Forecasting.... Use the latest sophisticated statistical techniques**

- Advanced statistical forecasting methods
- Variable reporting frequency, 12 or 13 periods per year
- User forecast override
- Monitor forecast model
- Forecast error measurement
- Inventory parameter calculation

- Multiple selling warehouse (distribution point) support
- Seasonal parameters for items and groups
- Interactive file maintenance
- Mass parameter maintenance
- Flexible reporting
- System internal controls
- Strategic forecasting
- Life cycles

### **Main Menu Options**

- Inquiry and file maintenance
- Period update
- Forecast reporting (year 1)
- Projection reporting (years 2 & 3)
- Seasonal update

**Information Flow** Forecasting provides two processing cycles: Periodic recalculation of forecasts, projections, and inventory parameters; and annual updating of the demand history data base and the recalculation of seasonal parameters.

The periodic recalculation cycle begins with order data (product demand) from the OE&I application. You review the results of this cycle before loading the results into the master schedule. At the end of each year, an additional year of history is added to the Demand History file and the application calculates new seasonal profiles.

### **Sales Analysis.... Better decisions mean higher productivity**

- Twelve-month or thirteen-period processing
- System tailoring report selections
- Critical period data and historical information on demand
- Provides information on product line coverage
- Track and evaluate customer purchasing statistics, salesman productivity, and sales organization effectiveness

### **Main Menu Options**

- Current period reports
- Comparative reports
- Inquiry
- Reporting period close
- Year-end close
- File maintenance
- File listings

**Information Flow** The application automatically receives data from its interfacing applications (IM, OE&I, AR), one of which must be installed. At month end, sales statistics are printed showing customer item, and



salesman performance. You can also get reports for customers, items, and salesmen showing current period, year-to-date, and period-to-date information

#### **Data Collection System Support.... Gather data at the source for accuracy**

- Warehouse and shop transactions that you define for your company
- Disk turnaround records that map turnaround numbers to production jobs for activity reporting
- Elapsed-time calculations for labor transactions
- Data entry from the IBM data collection system or directly through a display station
- Data reformatted to pass to inventory, payroll, and production control applications

#### **Main Menu Options**

- Data collection processing
- Error correction
- Attendance/absentee reports
- Teleprocessing
- File maintenance and listings

**Information Flow** The input to this application comes from a data collection system entry station in a warehouse or shop, at the place and time of the action. The data being entered falls into one of three categories; labor, move, or inventory.

For labor data, the application creates elapsed time records for each employee by job and passes this information to the PR application. For move and inventory data entered, the application passes the information to the IM or PC&C applications.

## **Multi-User System for Interactive Computing/System Product**

5664-197 \$850 monthly

**MUSIC/SP** can help to efficiently and equitably share resources among a large number of simultaneous users in a manageable and secure manner, using minimal support staff.

This package combines capabilities that would normally be available only through the use of different systems. Users can concurrently perform such

diverse activities as Electronic Office Support, Program Development, Personal Computer Support, Application Prototyping and Problem Solving.

## Highlights

- **Tailored user-views** provide full-screen 3270 selection menus. Each user can tailor his own view, use one provided with the system or designed by your installation. Fast path support allows experienced users to bypass selection menus and go directly to one of the selections.
- **Subset user-view** provides a facility to limit the functions available to users of the system.
- **Eliminate DASD management** with a common-space pool concept—this relieves the need to manage individual user's space requirements. The common file system, available to all users, features automatic file compression, space allocation limits and file sharing controls.
- **Electronic office support** is provided via the Time, Office and Documentation Organizer facility.
  - Authorize view, add and update access to your calendar, schedule conference rooms and equipment, have the system find times when several users can meet. Identify conflicts, resolve conflicts and send out notification for the meeting.
  - Electronic mail exchanges messages between MUSIC/SP users, and MUSIC/SP and CMS users. Controls can be established to limit who can use the facility as well who each user can send to.
  - Write and edit letters, memos and other formal documents using MUSIC/SP Script. Print them, store them electronically, and send them to other users. Use spelling verification to locate and correct spelling errors.
- **Personal Computer Workstation Support** is included to interface with the PC.
  - Perform file transfer with the PC for character and binary files. Use the system as a repository for PC data and programs.
  - As an intelligent terminal, it presents a screen environment similar to a 3270 terminal with full program function key support. Using the local power of the PC, scroll through recent non-full screen output.
  - Utilize pre-programmed command sequences (scripts) to automate almost any communications procedure. An unattended PC can be used to connect to MUSIC/SP at a specified time, transfer and receive files and disconnect.
- **Application prototyping** uses the power of the REXX language and the PANEL facility for development with minimal effort. REXX is well suited to structured programming and its functions for command parsing,

character handling and data conversion make it an excellent tool. PANEL is used to create full screens, which can be used by high-level languages (i.e., REXX).

- **Program development** is done via the standard language processors (compilers, assemblers and linkage editors or loaders) to develop, test and run programs.
- **Computer Aided Instruction** support is provided through the Interactive Instructional Presentation System/Authoring System (IIPS/AS). Some MUSIC/SP CAI courses are included.
- **Support for other systems** generally available in academic and other environments, for example, WATCOM, Inc. and SPSS, Inc.

MUSIC/SP provides interfaces to enable installations to run many IBM programs that are an asset to the interactive system. They include:

- FORTRAN IV (G1) Compiler (5734-FO2)
- FORTRAN IV Mod II Library (5734-LM3)
- VS FORTRAN (5748-FO3)
- VS BASIC (5748-XX1)
- PL/1 Optimizing Compiler and Libraries (5734-PL3)
- OS/VS COBOL Compiler and Library (5740-CB1)
- VS APL (5748-AP1)
- Pascal/VS Compiler (5796-PNQ)
- OS GPSS (5734-XS2)
- OS RPG II (5740-RG1)
- Interactive Instructional Presentation System (5668-012)
- Interactive Instructional Authoring System (5668-011)

### **Potential Benefits**

The system provides facilities to:

- Deliver computing resources to a large number of users in a cost effective environment.
- Present the user with a "padded environment" to protect them from themselves and each other.
- Support thousands of authorized users without having to pre-allocate and manage disk space for each user.
- Utilize the many built-in applications that are part of the environment.

### **Environment**

MUSIC/SP operates as a guest operating system under VM or VM High Performance Option and runs on 43XX to 30XX processor complexes.

## Publications

You may request a demonstration from your IBM Branch Office. Use the Order card in back to request these free publications:

MUSIC/SP General Information Manual  
MUSIC/SP Software Update

G320-0805

## Network Design and Analysis 5664-202 \$15,000 or \$750 monthly

Here at last, is a tool that will help you design, analyze and optimize SNA telecommunication networks...interactively. You can use NETDA to plan a new network from scratch or modify the design of an old network. Use it to perform your own what-if experiments.

### Highlights

- With NETDA you input all the components of your network; then you can change or modify the data in any way you want, or allow NETDA to do it for you.
- NETDA can generate explicit route numbers, virtual route numbers and class of service tables.
- NETDA enables you to change routes, view specific subsets of routes, redistribute traffic, move applications from one host to another and more—all online, interactively, without costly physical experimentation.
- Using NETDA is an interactive process. You can employ the results of the optimization process, and make changes to the network elements based of the optimal routing scheme. Then you can view the results of the changes.
- NETDA is easy to use and menu-driven. It leads and guides the network designer through the task of developing a network.
- NETDA works like a network design spreadsheet allowing you to input all the variables of the equation, then it does the work of network design and analysis for you.
- It's colorful and clear, with a consistent color scheme to distinguish input and output fields, messages and important results.
- The User's Guide includes explanations of all the NETDA screens and a step-by-step example of how to input and optimize a network.

Because you operate upon it like a spreadsheet, it reduces the time, expense, uncertainty and repetitive calculations involved in network design. Whether you are designing a new network, or enhancing an existing one, NETDA provides you with the tools to

- Define the elements of the network (nodes and transmission groups), with all their individual characteristics.
- Define the traffic the network will carry, including application to host assignment, class of service table and traffic table.
- Generate hundreds of possible routes for the network traffic.
- Use NETDA's powerful, flexible route ordering and selection commands to arrange routes in any sequence you desire, and eliminate undesirable routes from consideration.
- Select optimal routes.
- Create multiple versions of the same network, so you can store and re-analyze one of several alternatives.
- Analyze network availability and performance.
- Input the network topology and traffic from a tape or disk file.
- Output valid, usable, real-world RTG statements incorporating the results of your work with NETDA.

**Environment:** VM, APL2 or VSAPL and GDDM. NETDA was designed for use with a 3279-S3G Display Station, or equivalent. This terminal is recommended for color coded screen presentation, drawing and other notational characters. However, NETDA will operate with an IBM 3279-S2A or 3278-002 Display Station, but underscoring, color, box characters and subscripting may not be supported.

## **Network Performance Monitor 5665-333 \$3210 plus \$535 monthly**

**NPM** measures the components of response time (host, network and total) and network traffic volume to help you approach optimum network performance. It helps you understand your system, speeds problem determination, achieves precise tuning and enhances the planning process. NPM provides data on

- Application performance.

- Functional performance.
- Network status.
- Network component performance.

NPM reports data by physical unit, logical unit, line, virtual route, logical unit group and application. You have the flexibility to select the type of data and time frames for your displays.

NPM collects and stores data from the host and from NCPs. NPM can store and process RTM data collected by NLDM so you can have a central source for analyzing performance management information. These subsystems are employed:

- Network Data Collection and Analysis collects, monitors and displays data in the host.
- Graphic subsystem allows you to view the data with charts.

As you collect data, you can indicate the exact network resources on which you wish to collect, the time intervals for collection and the period over which it is to be collected. This helps you obtain the data for pinpointing and resolving problems, tuning the system and planning for growth.

To help you manage network performance, you are able to specify low and high threshold boundaries for network performance. If data is out of bounds NPM notes it.

The optional Graphic subsystem encourages you to construct graphic representations of collected data, including RTM data collected by NLDM. You have wide flexibility in the type of graphics you can display, including line, bar, and surface charts. And now, you can display up to ten different graphic displays in sequence on the same terminal. Thus you can monitor many resources from the same CRT.

The new capability to handle RTM data means you can analyze physical response time as well as logical response time without exiting NPM. This saves time and presents additional data on network performance.

There are several features that enhance the usability of NPM:

- A monitor resource exclusion/inclusion feature allows you to enter resource names you want to exclude/include when analyzing a set of resources.
- A graphics data scan that scans for graphs produced from the 'online' and 'archive' files.
- An NM4PM start time synchronization which allows intervals to be synchronized with the Time of Day clock.

## Potential Benefits

NPM collects, monitors, analyzes and displays vital data relevant to the network. This data helps your staff

- Identify and resolve problems which results in enhanced reliability and increased user satisfaction.
- Tune the network based on data to achieve improved performance and response time.
- Improve capacity planning and manage network growth to optimize the capital investment in the computing-communications installation.

**Environment:** MVS or XA

**Options:** GDDM and PGF, NPA Controller and NLDM

## Office/38 Applications Made Easy 5714-XE1 \$4,400

This program is designed with the nonprogrammer in mind. Users, ranging from administrative staff to business professionals, can use this application to enter and change data in the System/38, format new reports, do calculations, process daily transactions, send messages, create screen formats and much more by simply using the presented menus and options.

## Highlights

- The user employs menus, selections from lists, and the answering of clear English questions.
- Included with the application is a one-day user training session with a Learning Guide and computer-assisted training.
- Includes both 'help' text and error messages in plain English.
- Automatically documents all applications created by this program.
- Automatically generates all maintenance programs and screens and a report program for each data file.
- Offers the ability to produce a new application similar to a previously created application, permitting the user to insert his own names and screen formats.
- Includes the application and data file security control by department and user name, not by code or an abbreviation.
- Offers a message sending ability operated by user name, not by workstation address.
- Defines and creates physical and logical files without having to code data description specifications.
- Allows the user to create new screen formats and reports without having to code in RPG III or Control Language.

- Creates reports with
  - Record selection at execution time.
  - Calculations—add, subtract, multiply and divide.
  - Average, standard deviation and variance calculation.
  - Field totals and subtotals.
- Includes transaction processing that allows field update via replacement, and fields totals and subtotals.
- Is flexible enough to produce reports ranging from resume tracking, tuition refunds and expense records, to sales reports and commission calculations.

AME extends the usefulness and accessibility of the System/38 and its data base. It can increase productivity of business professionals by giving them access to the power of a computer. It offers unprecedented ease of use intended for utilization by those absolutely unfamiliar with computer operation. It can decrease demands on data processing professionals because the non-DP professional may be more inclined to implement his own application.

Use the Order card in back to send for brochures GB30-1952 and G580-0370.

## PARIS The Retail System

MVS Base 5665-320	\$4,708 plus \$1,350 monthly
VSE Base 5666-294	\$22,275 or \$2,775 plus \$747 monthly
MVS POMIS 5796-PXP	\$47,300
VSE POMIS 5796-PTE	\$3,095 plus \$891 monthly
MVS RCDS 5796-PXQ	\$20,350
VSE RCDS 5796-PTD	\$995 plus \$287 monthly
MVS IPS 5796-TCL	\$40,000
VSE IPS 5796-TCN	\$28,000

Now, there's an integrated retail information system that can put you on top of retail events. And help you make the decisions necessary to keep you there. We call it PARIS: A Planning Aid for Retail Information Systems. PARIS is a managerial tool to aid merchandising, operations and financial management at all levels.

PARIS is broad in scope and purpose—because it was designed that way by specialists who understand retail operations and problems; and know how IBM computers and software can be used to solve them.

**The heart of the system** Four programs form the nucleus:

- PARIS/Base defines and generates a comprehensive retail data base.



- PARIS/Purchase Order and Merchandise Information System generates purchase orders and tracks sales performance in a multi-store environment.
- PARIS/Receiving, Checking and Distribution System manages online receipt and distribution processing applications.
- PARIS/Invoice Processing System is used to match invoices to receipts, process overages and shortages, and initiate accounts payable transactions for payment of vendor invoices.

**Accurate information from the start** PARIS helps you work as you always have. Only faster and more accurately. For example, you can enter data quickly via screen formats that can be made to resemble standard operating forms. Known information, such as a vendor address, can be automatically inserted. And data can be checked for errors and corrected on the spot. In short, jobs can be accomplished faster—with less writing and filing of time-consuming paperwork.

**Building your foundation** PARIS/Base gives you the function and the means to define and generate the data bases for a retail information system. It also provides the capability to modify, add and/or delete information online from the data bases— whether changes result for maintenance to current programs, application growth, or requests for new information. PARIS/Base is designed to:

- Yield significant savings in new program development and reduce program maintenance costs.
- Accommodate organized and procedural changes in a shorter time, and at less cost.
- Reduce storage costs by eliminating redundant data.

**Buying the right merchandise—in the right way** PARIS/Purchase Order and Merchandise Information System offers a better way to control the functions and processes of ordering and handling merchandise information. The purchase order segment, in conjunction with the PARIS/Base program, for example, can be used to capture and validate purchase order information on an online terminal. And to print out the actual purchase order. The system also stores size and location ordering information, thus saving hours of tedious, manual steps.

The purchase order segment also gives you the capability to cancel or change open purchase orders. And to update the item file with on-order information as it occurs.

Sales information from your point-of-sale network, as well as purchase orders, can update the SKU data base. And this information can be made available by department, classification, vendor, style, color and size.

**In the right place—at the right time** The PARIS/Receiving, Checking and Distribution System is designed to speed the flow of merchandise from the receiving dock to store shelves.

The online receipt processing portion, for example, updates the order, checks for discrepancies, and enters the results into the system with a minimum of clerical effort. Advantages to this approach include:

- Avoiding delays in locating an order authorizing receipt.
- Highlighting special handling situations for orders that are early, late, canceled or require expedited action.
- Checking merchandise shipments against only the most current and accurate information.
- Establishing a base for processing traffic claims and vendor invoices.
- Reducing calls concerning discrepancies to and from management and buyers.

The distribution processing module deals with the actual movement of merchandise from the distribution center to the selling floor. Use of the merchandise distribution processing module can:

- Give management up-to-the-minute access to information on merchandise status and movement.
- Reduce merchandise movement documents to reduce clerical costs and delays.
- Reduce the amount of lost or delayed merchandise.
- Identify shrinkage sources through the requirement for positive acknowledgement of merchandise passage through control points.
- Provide more accurate and current information for an individual store's inventory and stock ledger.

**Paying for received merchandise—according to agreed terms** The PARIS/Invoice Processing System aids the retailer in assuring that merchandise is paid for according to the terms previously agreed upon with the vendor. To aid in the invoice entry, matching and reconciliation process, all invoice and receiving information in the system may be viewed online.

PARIS/IPS in conjunction with PARIS/POMIS, PARIS/RCDS and PARIS/Base provides many financial benefits for the retailer:

- All trade and cash discounts, allowances and charges are automatically computed and checked for accuracy.
- Payment due and freight terms are reviewed comparing the vendor's normal terms to the terms on the purchase order and invoice, and the most favorable are displayed.
- When any shortages are revealed, a chargeback may be generated and a debit memo produced.
- Duplicate invoices are identified.

## Potential Benefits

The PARIS process is integrated, interactive, interdependent...and continual. Its cumulative results can give you complete, accurate and timely information to:

- Increase the productivity of merchandising personnel.
- Improve profit potential through early identification of trends.
- Speed the flow of merchandise to the selling location.
- Accurately assess vendor, classification, and item profitability.
- Identify the fastest and slowest movers.
- Decrease distribution center operations costs.
- Assure accurate and prompt payment of invoices.
- Provide a data base for implementing retail information systems.

**Proven products to help you compete** PARIS is a family of low cost, easy to use and easily implemented programs that can help you capture, maintain and utilize your valuable information. And put it to work in a timely, effective fashion.

Combined with IBM point-of-sale terminals and computers running under MVS or VSE, PARIS offers a decision support capability. And, because it permits economical application growth, it's a proven retail solution for growth in the 1980s.

For more detail characteristics and prices look up the PARIS entry in the Keyword Index. You can request a free packet of PARIS publications; specify these numbers on the Order card in back: G520-0010, GE20-0758, G320-9145, G320-9146 and G320-9487, plus the General Information Manual (MVS is GH20-6222; VSE is GH20-5611).



## Patient Care System

Managers of successful hospitals are very much aware this decade is one of transition; operating successfully is more difficult than ever. Reimbursement methodology is becoming very complex and competition is increasing.

In order to continue quality service to the community, hospitals must contain costs, raise productivity and increase efficiency. These always have been worthy goals, but now they acquire new meanings—staying in business, for example. These sound business practices have become essential to the success of the institution.

Hospital management must have access to timely, accurate and complete information. IBM has developed a solution: an integrated information

system with potential to increase employee productivity and utilization, and improve cost control.

**Patient Care System** is an integrated communication and information system that assists personnel with the administrative, clinical and financial aspects of patient care. PCS is an online, user-oriented system with a comprehensive patient data base linking the major service areas of the hospital.

With PCS your information is timely, accurate, accessible and easier to update. For example, when a patient arrives at Admissions, your staff enters the necessary patient information. It is stored in the data base.

Once entered, authorized users have access to it plus other information such as patient orders and results. Patient information, including current diagnosis and Diagnosis Related Group (DRG) is updated in real time and made available to all authorized personnel.

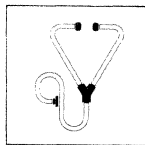
The system produces working documents that assist hospital personnel in the execution of their work. PCS produces patient treatment plans and medical record abstracts that can replace handwritten documents.

Information entered at the departmental level is used to produce patient care and financial operational reports. They enable management to analyze profits, losses and costs by categories such as DRG procedures performed, patient diagnosis, physician and average length of stay.

PCS offers your hospital many benefits. It minimizes clerical tasks, increasing employee productivity, improves your revenues and cash flow, decreases costs and improves the quality and morale of management. A more efficient hospital improves the decision process. The results are financial success and quality patient care.

There are four components:

- Patient Management 5796-BBF \$5,135 plus \$1,050 monthly
- Patient Accounting 5668-913 \$165,000 or \$7,500 monthly
- Medical Records and Concurrent Review 5796-TBH \$90,000
- Application Component-Order Communications  
5796-ANY for MVS \$2,900 monthly  
and 5796-ATZ for VSE \$3,190 monthly



Extensions for additional departmental functions include:

- Nursing Care Plans 5796-PQC \$8,250 or \$1,500 plus \$575 monthly
- Infection Data Management 5796-BCC \$7,125 or \$540 monthly
- Surgery Reporting 5796-PRJ \$9,130

Additional productivity aids are available:

- PCS-Application Development System/Crossreference 5796-AYP \$4,950

- ADS/Automated Directory Generator 5796-BTR \$2,475
- PCS-Online Text 5796-PZR \$9,000



PCS-Application Development System was used to write the program.

All of these components are integrated and use the same patient data base. What does this mean to you?

**Integrated Data Base** Typically, each department uses its own separate 'filing cabinet,' with a file for each patient. One patient may have a separate file in each department containing different data. The integrated data base eliminates redundancy by putting all the data into one big 'filing cabinet' that all authorized personnel can use. This feature will save your employees a lot of time and give their productivity a healthy boost.

**Room to Build** The PCS family is modular, meaning you don't have to implement the entire system at once. Instead, you can phase the individual components according to your needs. For example, one institution may have a pressing need to implement a new patient accounting system, while another may be in greater need of a medical records system. PCS allows you to prioritize your needs and deal with them one at a time.

ADS and Patient Management are installed first, because they provide the foundation for the entire Patient Care System. ADS supplies the system architecture and Patient Management creates basic patient biographic, demographic and account information for the whole of PCS.

Because the components share the same integrated data base, and PCS is compatible with other IBM programs, the same data becomes the foundation for a management information system to make all types of information available throughout your organization. From the same workstation, you can access patient data through ad hoc queries and reports, route messages using electronic mail, schedule a meeting and have it added to the attendees' calendars and do some planning using *what-if* modeling. PCS contributes to effective information processing throughout the organization. It provides management with the tools to run the business.

PCS is easy to use. Your employees don't have to be computer experts. In fact, a standardized menu screen guides the user through each operational step. Menus are selected by keyboard or light pen, as appropriate.

**Help Available** When the user is stuck, a special help screen comes to the rescue. The help text may include instructions about using a function or how to resolve an error.

Color highlights the differences between various types of data. The use of color makes it easier to train users. And, once trained, they should be more productive.

**Security and Auditability** Each user is assigned a security code authorizing him to perform specified functions. Therefore, hospital management controls not only who accesses the system, but which functions they can perform. Audit trails are printed and displayed to track the use of the system.

**Flexibility** Because the health care industry is changing so rapidly, you must have an information system you can adapt easily as your needs change. PCS is table-driven so you can customize it by modifying the tables; you don't have to change the programs themselves.

Architecture of the system makes it easy to tailor your operation. You can tailor your admitting forms or customize menu screens for each nursing station.

As your needs change, PCS can change with you, without heavy investments of time or money. Modification and migration are integral to its architecture.

ADS is the language the applications are written in. It is based on standard architecture so PCS is in the mainstream of IBM products. You don't have to worry that your information system will become obsolete as information technologies change. You'll have a flexible product that can grow as you expand.

Patient Care System is a comprehensive hospital information system. You won't have to waste valuable time and resources searching for just the right combination of hardware, software and services. It is a complete package.

IBM offers you a range of compatible systems, such as telephone management systems, to assist you in controlling network costs and managing your business information system.

### **Benefits**

- Create fast, accurate communication between your departments.
- Make patient information available more quickly to the people who use it.
- Ensure the security of confidential information.
- Assist the management of the institution's financial position.
- Raise your level of employee productivity and utilization.

By providing the tools to accomplish these goals, the system can help you remain viable in today's challenging health care environment. And, in so doing, PCS can assist you in accomplishing your most important objective—to deliver quality medical services.

## **Patient Management**

### **Highlights**

- Online registration, preadmission and admission
- Optional automatic assignment of medical record and account/case number
- Capability to enter DRG, severity of illness and diagnosis code
- Bed control, including transfer, bed swap, discharge and leave or absence
- Guarantor processing
- Insurance processing
- Online data base entry, inquiry and update
- Census and daily activity reports
- Special handling of recurring outpatients
- Multiple hospital support through the use of separate data bases
- Optional use of selector light pen or keyboard for data entry

Patient Management provides the foundation for the other PCS functions by capturing essential patient data, maintaining it and making it available to operating units of the hospital. It also benefits patients. Streamlining the admitting procedures and reducing clerical errors will make the admissions process pleasant, and much less time consuming.

Patient Management supports the Inpatient, Outpatient, and Emergency Room operations of the hospital. Automating their operations results in:

- Streamlining admission process.
- Making bed assignments more efficient.
- Lowering the volume of paperwork.
- Managing patient records faster and accurately.

### **Application Component (Order Communications)**

#### **Professional Services Offering**



#### **Highlights**

- Orders are transmitted to the performing department and made part of the patient's record.
- Results become part of the data base and are transmitted to the appropriate area.
- Charges for patient services are collected and made available to an accounting system.
- Authorized users may inquire to determine order status and/or results.
- Service departments may display work to be done.
- Nursing Care Worksheets are provided by shift for each patient on a nursing station.
- Medication Plans for scheduled and unscheduled drugs are produced for each nursing station.

- Security and audit features help protect sensitive data.
- Display screens, print formats and procedures are added easily or modified without programming.

This program services one of the vital activities in the hospital: management of orders for medications, treatments and services.

Application Component manages and tracks requests from their initiation through stages of processing and reporting of results. Orders are entered from menus of services and transmitted to the performing departments. They can be activated automatically or held for verification by authorized personnel. Departments can display lists of work to be done and enter completion and result data for each order. The status and results of orders are available for inquiry.

The system allows personnel to record a profile of clinical summary data. Working documents and reports are produced automatically, and charges for ordered items are captured to be sent to the accounting system.

Application Component can:

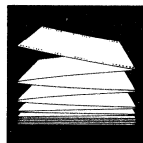
- Make order processing faster and more accurate
- Speed up turnaround time on medical tests
- Improve productivity at nursing stations, ancillary, and service departments
- Promote better communication between departments
- Capture and report charges for each service automatically, minimizing the number of lost or late charges
- Reduce the volume and cost of paperwork

Order communications can be beneficial to your hospital in terms of efficiency and productivity. It can produce improvement in the quality of the delivery and the quality of the service.

## **Patient Accounting**

### **Highlights**

- Online entry of financial transactions
- Reclassification of revenue
- DRG financial reporting
- Revenue analysis
- Uniform Bill (UB 82) claims preparation
- Third party logs
- Automated statement preparation
- Proration of detailed charges for up to five insurance plans
- Payment analysis by service code
- Bad debt recovery processing and reporting
- Recurring outpatient account processing
- Consolidated statement processing by guarantor
- Exception reporting by responsible account representative





- Multiple hospital support through the use of separate data bases
- Customization of accounting and processing options

This program is designed to streamline accounting functions with speed, accuracy and minimum paperwork. It supports:

- Patient charges.
- Billing of patients and third parties.
- Collection and posting of payments.
- Generation of reports for management, third parties and regulatory agencies.

Patient Accounting tends to reduce manual effort expended in accounting tasks. That means improved efficiency and productivity for the hospital.

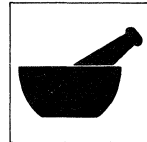
Benefits for the hospital are:

- Billing is timely and accurate.
- Collections process is compressed.
- Reduces bad debt potential.
- Improves cash flow.
- Reports help you understand your financial position and improve the quality of management planning.

## **Medical Records and Concurrent Review**

### **Highlights**

- Single data source for clinical and financial data
- Eliminates data redundancy
- Eliminates outside abstracting expenses
- Improves accuracy, quality and integrity of data
- Online, interactive data entry
- Simultaneous editing and data entry
- ICD-9-CM and DRG support
- Extensive reporting, including ad hoc reporting, under control of hospital
- Supports DRG reanalyzing, including automatic prompts
- Supports DRG optimizing, including automatic prompts
- Automatic DRG grouping
- Provides reporting for outside agencies, including malignant neoplasms, congenital malformation and open biopsy reports
- Concurrent review identifies and generates reports of patient treatment delays
- Tracks referrals for discharge planning
- Collects alternate care data
- Tracks patient reviews by hospital defined norms (by DRG, financial class, etc.)
- Manages review process via online tickler file
- Collects diagnostic and procedural information for automatic assignment of working DRG



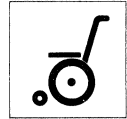
This recently announced program could be crucial to your financial stability. It supports the Medical Records and Utilization Review Departments by using records from your data base. It helps you manage the complexity of prospective reimbursement effectively, and helps you develop planning strategies and tactics.

This module abstracts the patient record, analyzes clinical data and calculates the DRG, resulting in quicker reimbursement. But it does more than that. It also provides reports to help you develop case-mix analyses and projections.

### **Benefits**

- Improve the accuracy of patient records.
- Reduce manual effort.
- Assist you in obtaining maximum reimbursement for DRG cases.
- Perform the DRG assignment early in a patient's stay; even immediately after admission. This will give you the information you need before it's too late to act on it.

### **Nursing Care Plans**



### **Highlights**

- Initial entry of patient care plan including nursing diagnosis, related factors, patient goals, outcome criteria, assessments and interventions
- Care plan structured around the nursing care process of assessment, planning, intervention and evaluation
- Standards of care based upon the experience and expertise of professional nurses from varied backgrounds
- Online modification, and retrieval of care plans
- Audit trail identifies each care plan entry by person, date and time
- Conforms to medical record and hospital accreditation standards

Nursing Care Plans, an extension of Order Communications, provides an online connection to assist the nursing staff maintain care plans (based on nursing diagnoses) that are standardized and individualized. It can:

- Increase nursing productivity.
- Teach and reinforce the nursing process.
- Provide online data to make treatment-related decisions.
- Lend greater continuity to delivery of patient care.

## **Infection Data Management**

### **Highlights**

- Collects information on infections and related organisms.
- Computes endemic infection rates for services, departments and nursing units.
- Identifies potential epidemics.
- Integration with surgical data enables analysis of surgically related infections.
- Generates lists of reportable diseases.
- Generates detailed measurements of antibiotic sensitivity values and long range trends for all nosocomial organisms.

Infection Data Management provides online recording and tracking of nosocomial and community acquired infections. It also generates statistical reports on infection rates, potential epidemics and antibiotic sensitivities. It can:

- Improve tracking of infections
- Provide information to assist in prescribing effective antibiotics
- Minimize excessive patient stay

## **Surgery Reporting**

### **Highlights**

- Online entry of data from the Record of Operative Procedure, including primary and secondary procedure codes, location, date services, times, personnel, anesthesia, incidents, wound class, implants and supplies
- Automatic computation of charges for room, equipment, anesthesia, implants and supplies
- Reports of procedures performed and supplies used
- O.R. utilization analysis reports, including procedure duration and activity by service

This module automates the standard Record of Operative Procedure and provides for input of surgical times, personnel information, and a record of implants and supplies utilized. Surgery Reporting gives you statistics that are essential in developing reports and analyses of your surgical procedures. It can:

- Provide better, more accurate tracking of surgical infection rates.
- Reduce the number of late and lost surgical charges.
- Improve your analysis of operating room use.

## **ADS/Crossreference**

This component is a productivity tool for applications built on PCS-ADS architecture.

Crossreference is a help in design, coding, documentation and maintenance of PCS applications. It assists application developers and maintenance personnel by providing a crossreference of both data names and modules. Data can be displayed via online inquiries and printed.

## **ADS/Automated Directory Generator**

The data management function of PCS-ADS allows the user to be independent from the data bases being accessed using data directories. These are sets of tables that define all aspects of the data and its access.

The Automated Directory Generator provides a method for generating these directories directly from IBM DB/DC Data Dictionary. This eliminates the need to maintain duplicate data in both products and simplifies the production of directories.

## **Online Text**

This is a page oriented, text management system designed to enhance the online documentation and instruction delivered with PCS-ADS based application systems. Its facilities allow users to interrupt a current PCS-ADS application screen flow, review one or many pages of textual information conveniently and effectively, and return to the original application screen flow. Online maintenance and a multilevel security systems encourage end user departments to create and update text without Management Information System involvement.

Users can make the system 'friendlier' by incorporating procedural instructions, written in their own terms, directly into the application screen flow. Large quantities of general information, not directly related to an application screen flow, can also be created. Online update allows users to maintain relatively volatile information online (e.g., lists of lab tests available at night).

## **Highlights**

- Text pages can be linked in several sequences: page forward, page back, table of contents and footnote reference.
- While displaying information, a user can
  - Go directly to a referenced page or set of pages.
  - Set a 'bookmark' on a page to refer to it. Up to fifteen different pages can have bookmarks.
  - Display currently set bookmarks.
  - Page forward and backward.
  - Return to the application screen.

- Only an authorized author can create or update pages.
- Full upper/lower case support enhances text presentation and operator acceptance.
- No limit to the number of pages that can be displayed in a single session (between any two normal PCS-ADS application screens).
- Multi-hospital support.
- Separate draft (test) and final (production) versions of each page are maintained.

### **PCS-Application Development System**

PCS-ADS is architecture for PCS that provides tools for creating and maintaining the building blocks of an information system:

- Display screen and print formats
- Data specifications
- Application logic

It also contains an engine for processing these building blocks in real time.

With PCS-ADS, users are involved in customizing applications to meet changing requirements of the environment. For example, admitting forms can be tailored to the institution and menu screens can be customized for each nursing station. New applications are more easily developed with these tools.

### **Highlights**

- User oriented architecture encourages participation in the development, tailoring and customization of applications
- Comprehensive set of programming tools facilitates screen and report formatting, application logic definition and editing of data
- Data management enables centralized control, access and definition of all data
- Interactive testing and debugging
- Security and integrity of data and applications
- Use of CICS for data communications and management
- Use of DL/1 or IMS for data management
- VSAM support for system and user files



## Professional Office System 5664-309

**PROFS** can help executives, managers, professionals, secretaries and administrators in the personal services aspects of their daily work. PROFS also serves as a communications building block of an integrated office automation system.

**IBM's strategic office system product in the VM environment** Since the 1984 IBM Corporate Announcement that positioned the Professional Office System as the IBM Strategic Office System Product in the VM environment, a tremendous amount of development activity has taken place. With the latest announcement of PROFS Version 2 Releases 1 and 2, IBM has delivered all the content of the PROFS 1984 'Statement of Direction'. PROFS now will have full Document Content Architecture (DCA) support and, with DISOSS in the network, will support Document Interchange Architecture (DIA).

Since its beginnings as an IBM internal system in 1972, PROFS has become an integral part of the daily work of over a half a million users, and it remains a strategic office system product in the IBM VM environment.

### Highlights

**Processing schedules** Authorize view, read and write access to your calendar, keep and update your personal calendar, schedule conference rooms and equipment, have PROFS find the times when several PROFS users can meet. Identify conflicts; resolve conflicts; and send out a notification for the meeting. A PROFS user can accept a meeting notice from a note and place it on his calendar.

**Adding automatic reminders** Have PROFS remind you about upcoming meetings, appointments, and any other important things to do.

**Opening mail** Read and process your incoming mail (electronic correspondence, documents or notes) received from other PROFS or DISOSS users, send replies, file, or erase as you please.

**Processing messages** Send messages to and receive messages from other PROFS and CMS users.

**Processing notes** Send notes to and from other PROFS, CMS and DISOSS users and work with notes in your personal PROFS logs. A PROFS user may imbed a day(s) note logs of detailed calendar information into a PROFS note.

**Preparing documents** Write and edit letters, memos, and other formal documents utilizing DisplayWrite/370 or DCF. Print them, store them electronically, and send them electronically to other PROFS or DISOSS users.

**Proofreading notes and documents** Locate and correct spelling errors, contextual misspellings and awkward phrases. Select synonyms for overused or misused words. Perform a grade level check for reading comprehension purposes.

**Searching for documents** Locate documents that you have sent to or received from other PROFS or DISOSS users; you can even make file entries for paper documents from outside of PROFS or DISOSS.

Note: Some of the features and functions above will not be delivered until Release 2.

### **Here's how to get the most out of PROFS**

To capitalize upon the rich functions of Version 2, an implementation plan should be carefully outlined, documented, and of course executed. The purpose is to ensure that these important matters are in place:

- Top to bottom management commitment
- Necessary company technical resources available
- Necessary system administrator skills in place
- Well planned initial, on-going, and expert level education
- Selection of the best pilot location
- Replication of the pilot throughout subsequent workgroups

How significant productivity improvements will be and how quickly your enterprise will benefit from them, are related to the 'up-front' plan and commitment to PROFS.

The implementation plan is followed by a pilot installation. The placement of the pilot is important. Place it in an environment where there is a need for the constant exchange of information and ideas. There should be some existing common communication problems such as

- Availability restraints - meetings, conferences, briefings, traveling, etc.
- Physical limitations - workers unable to communicate face to face.
- Location restrictions - different department, division, floor, building, city, country, etc.
- Time zone constraints - national and international

A successful pilot will help provide you with the data to indicate the best way to expand PROFS to the total employee population. The installation of PROFS on every executive's, manager's, professional's, secretary's and administrator's desk can serve as the foundation of a broader system which provides a total enterprise decision support solution.

### **Why Purchase?**

Purchase can be the most cost effective financial alternative to pay for the licensed functions of PROFS. This can be illustrated with a simple cost justification exercise. The variables you will need to supply are the period of time you foresee using PROFS features, functions and benefits to fulfill your company's communications needs (24, 36 or 48 months) to divide into the one-time-charge cost per number of concurrent signed-on terminal users (CSTUs). After completing this simple payback calculation, you will have a preliminary snapshot of the feasibility of the OTC financial alternative.

IBM has protected the purchase investment for those customers who have previously licensed (OTC) Version 1 by charging a nominal fee of \$1000 to upgrade to Version 2 (OTC) at the 100 or fewer CSTU level. (See pricing for option permitting more than 100 CSTUs in Version 2.) PROFS may be licensed for a one-time charge or a monthly license charge. These individual charges are based on the number of Concurrently Signed-on Terminal Users (CSTU'S). Version 2 pricing is:

	100 or fewer CSTU's	Over 100 CSTU's
Basic OTC	\$22,000	\$32,000
Basic MLC	995	1,195

Note: There is no ILC for Version 2.

Version 1 pricing

Basic OTC	\$22,000
Basic ILC	5,000
Basic MLC	895

Note: There is a \$1000 upgrade charge for those who have licensed (OTC) Version1 to move to Version 2 (OTC) at the 100 or fewer CSTU level.

## Lease vs Purchase Analysis for PROFS

Number of months to be installed x MLC \$ \_\_\_\_

Estimated number of users \_\_\_\_ users

Divide total cost by est. users by \_\_ mos. \$ \_\_ per user

OTC \$ \_\_\_\_

Estimated number of users \_\_\_\_ users



Divide OTC by est. users by\_\_ mos.

\$\_\_\_per user

Note: Apply any VLA or special bid discounts where applicable. Remember that all discounts can be applied against the \$10K upgrade cost to move from Version 2, less than 100 CSTUs to Version 2, more than 100 CSTUs, (\$22K to \$32K).

## **Retail Applications System/36 5798-RAS \$19,900**

This collection of programs provides software to automate the merchandise control, accounts receivable, accounts payable, and general ledger functions of a retail operation. Teamed with the System/36 and optionally with IBM 5260 series point-of-sale terminals, it provides merchandising and financial information the retailer needs.

### **Highlights**

Includes four completely menu-activated applications:

- Merchandise Control
- Accounts Receivable
- Accounts Payable
- General Ledger

Multiple companies can be installed on the same system, and the system provides separate or combined reporting for multiple stores within a company. Meaningful reporting is provided to display important information in a simple and concise format. A sample 'training company' and Learning Guide is provided to continue hands-on operator training.

### **Merchandise Control**

- Allows entry of sales transactions either on the System/36 or by using 5260 series point-of-sale terminals, which record the transactions on diskettes.
- Provides salesperson reporting for each salesperson and for each store.
- Provides sales history reporting to help determine changes in demand.
- Provides sales and profit analysis summarized by vendor, item, class and department for each store or in detail for every item sold.
- Provides a variety of on-hand and on-order inventory reports to help track inventory performance.

- Measures item performance and recommends reorders, markdowns and transfers to balance inventory levels between stores.
- Provides the option to automatically print merchandise tickets to minimize errors made at the point of sale.

### **Accounts Receivable**

- Maintains all the customer sales and payment records necessary to support in-house charge accounts.
- Provides customer statements that can show each item purchased or just the total of each transaction.
- Allows several types of messages to be printed on customer statements and accrued finance charges to be printed on the December statement.
- Provides four types of charge accounts and a variety of methods for calculating finance charges.
- Provides aging and exception reporting to assist in authorizing sales and collecting past due accounts.

### **Accounts Payable**

- Provides open payables reporting to take maximum advantage of available vendor discounts, terms and credits.
- Provides vendor history of purchase and return information for every vendor.
- Provides a trial disbursement journal to assist in optimizing discounts and to verify the accuracy of vouchers to be paid prior to printing checks.
- Provides checks and remittance advice for all invoices selected for payment.
- Provides a check reconciliation register to balance the bank statement.

### **Retail General Ledger**

- Provides comprehensive financial reporting such as profit/loss statement, balance sheet, general ledger.
- Accepts input directly from Merchandise Control, Accounts Receivable, and Accounts Payable to minimize the effort needed to produce accurate reporting.
- Provides general journal reports, financial statement worksheets and general ledger audit trails to support system integrity.

**Potential Benefits:** The Merchandise Control application can manage your investment in merchandise by

- Reducing the clerical effort in tracking merchandise.
- Spotting sales trends earlier, thereby allowing you to reorder fast sellers and mark down slow sellers earlier.
- Increasing sales volume with the same level of inventory.
- Balancing stock by analyzing the sales by location and transferring merchandise to where it needs to be.

- Improving buyer productivity by providing consistent, accurate information.
- Providing vendor performance measurements for guidelines in making subsequent seasonal purchases.

The Retail Accounts Receivable application helps you manage the investment in A/R by

- Capturing and balancing charge transaction data. If Merchandise Control is in use, then a single entry updates both systems.
- Supporting several account types, thereby providing flexible credit terms for customers of varying credit potential.
- Calculating and applying finance charges using a consistent method as part of the statement process.
- Printing customer statements timely and consistently, ensuring that all transactions through the cutoff date are billed on time.
- Providing an aging report, an exception report and a 5260 negative credit file that assists in authorizing sales and collecting past due accounts. The customer inquiry screen is available for online evaluation of a customer's status.
- Providing selective mailing labels and customer master lists that allow you to contact your best customers selectively.

Retail Accounts Payable helps you to

- Capture both expense and merchandise payables in a consistent and controlled manner.
- Monitor and control the cash flow.
- Take advantage of available vendor discounts, terms and credits.
- Create an audit trail for all expenses, and provide input to your general ledger system.

You may request these publications on the Order Card in back. The first three are free; the last seven are chargeable.

GB30-2487	Software Update
GB30-2491	Reports and Displays Brochure
GB30-2497	Product Overview
SB30-7006	Retail Accounting System Learning Guide
SB30-7007	Retail Accounting System Installation Guide
SB30-7008	Retail Accounting System Operations Guide
SB30-7009	Financial Accounting System Learning Guide
SB30-7010	Financial Accounting System Installation Guide
SB30-7011	Financial Accounting System Operations Guide
SB30-7012	Retail Accounting System 5260 Guide

## **Retrieval/36 5798-RPX \$1,320**

Retrieval/34 5798-RND \$1,320

This program relieves the workload of the data processing department by making it easy for inexperienced System/34 and 36 users to create and execute reports suited to their own special needs.

### **Highlights**

- Prompts the user through display screens, each accompanied by associated 'help' text, to minimize learning time.
- Permits the user to:
  - Choose the desired working area by selecting the appropriate category, or data dictionary, from the category menu screen.
  - Choose from a list of simple descriptions, the information to be included in a report, either in summary or detail.
  - Execute multiple user-defined calculations with totals and subtotals, sorted into as many as five levels of ascending or descending order.
- Displays reports on the display station screen and/or prints them out.
- Provides for three levels of user-defined security to restrict access to sensitive information.
- Stores reports and lists them on a report menu to be rerun or changed, as desired.
- Includes as many as nine data dictionaries, each of which may describe up to five files and/or record types linked together, and contains up to 99 categories.
- Provides for use with the following predefined data dictionaries: MAPICS File/Record Definitions, CMAS File/Record Definitions and DMAS File/Record Definitions.

Send for a free brochure on Retrieval/36 (GB30-2069) or Retrieval/34 (GB30-2083), using the Order card in back.

## **Routing Table Generator 5668-815 \$6,000 or \$300 monthly**

**RTG** is a tool designed to assist in network definition and generation. It aids medium to very large network users in generating network routes and ACF-required 'path' macros. It selects routes, and assists in adherence to the routing characteristics of a particular ACF release. It provides these functions based on the topology of the network, defined by the user's input statements. The user may specify all or some of the routes available in the network. RTG will select any remaining routes and validate the ones selected. In addition, RTG will generate 'path' macros for TCAM, VTAM and NCP.

### **Highlights**

- Online access to RTG functions from ISPF
- Improved use of memory and processing execution time
- Algorithmic selection of a reliable collection of explicit routes
- Generation of 'path' macros for NCP and host network nodes
- Algorithmic resolution of explicit and virtual route numbering
- Inclusion of virtual route pacing window specifications on VTAM and NCP 'path' statements and transmission group threshold specifications on NCP 'path' statements
- Capability to select alternate routes that are most unlike the physical path of the primary route
- Optional assignment of the same forward and backward explicit route numbers to a route
- Validation of user selected routes

RTG executes as a batch program under MVS or VM, or interactively under MVS/ISPF. The batch portion is written in PL/I and consists of three tasks.

- **Input.** Reads, parses and diagnoses the RTG input statements.
- **Algorithm.** Selects explicit routes and assigns the explicit route numbers and virtual route numbers. It constructs transit routing tables used in the output task to create 'path' macros.
- **Output.** Generates a report listing path macros and route statements that can be used in a later execution as input.

The RTG dialog facility executes as an ISPF application and uses its facilities for dialog management. It consists of panels (menu, data, selection and tutorial), table and message libraries, Clists and PL/I programs.

The dialog provides an interactive interface to the user when defining network topologies, generating routes and creating path macros for sysgen. It consists of full screen panels that provide an improved interface to functions available in RTG. The dialog facility has these features:

- A step-by-step process to aid network design and route definition.

- A full screen interface, including help tutorials that provide detail information about each panel.
- Means for running RTG through menu and data entry panels.
- RTG input file created automatically and executed accordingly.
- Transfer information from existing RTG input files into the dialog.

An Exec is provided to run RTG under VM or its HPO. The MVS batch features are available to VM.

Terminals supported: 3178, 79, 80, 3270-PC, 3275, 6, 7, 8, 9, 3290.

PL/I Resident and Transient Libraries, Release 4 is required.

### **Potential Benefits**

Manually designing a network and determining optimum routes for components is an enormously time consuming and error prone task. As your network grows, the number of possible routes multiplies. For example, if it includes ten hosts and twenty NCPs, there are suddenly over 6700 possible routes. Think of the time this can involve and the number of errors that can occur, especially when new users and new stations are added to the network frequently.

Now, with RTG, a programmer can describe the network with input statements. What happens next is:

- RTG selects optimized routes including those you specify.
- Path macros are generated.
- The user's routes are validated.
- In performing the above, RTG considers: The most direct route, the number of subareas and nodes the route traverses, transmission speed and quality.

This means faster and more accurate network design and generation so you can respond comfortably to a changing communications environment.

**Environment:** MVS, XA or VM and PL/I. You also will want to read the article 'Network Design and Analysis' in this section.

## **RS/1™ 5664-316 \$23,000**

Experience the cutting edge. Perfect for the technician and professional, RS/1 provides vast data analysis capabilities. All the functions including statistics and graphics are simple to use and produce impressive results. And with files managed automatically, RS/1 virtually runs itself. Integration from input to output ranks this as a superior data analyzer.

### **Highlights**

- Runs on a PC, RT or VM.
- Data needs no setup or data base design and can be accessed and edited easily.
- Data types include numeric, text, date/time and instructions.
- All operations are called with English-like commands. If unsure of a command or response, you get help with a single entry.
- Arithmetic, logic and relational operators are extensive.
- Statistical routines include analysis of variance and most major statistical calculations.
- Graphics options include line graphs, bar graphs, three-dimensional plots and pie charts. All graphics can be produced from tables, functions or data entered at the keyboard, and can be viewed on a terminal, plotted or printed.
- RPL, the programming language of RS/1, extends use of the program to esoteric applications. RPL procedures are easy to use and consistent, processing similar data from day-to-day and month-to-month.
- Using tables containing data, equations or procedures, models can be created for forecasting sales, predicting chemical reactions and constructing budgets.
- Each version can communicate with other versions via PC, RT-PC and VM/CMS. Data passed from one version to the next is translated without user assistance. Appropriate communication hardware and software must be provided.

### **Potential Benefits**

RS/1 will save time and effort in analyzing data. With minimal work, complete analysis of data can be achieved. No more time wasted transcribing numbers from a calculator—it does all the calculations and stores the results.

The program improves the quality of your work. Calculation errors need no longer be a worry. Moreover, plotted tables and graphics are professional looking and can give your presentations a real boost.

## **Using RS/1**

RS/1 is perfect for storing data to be statistically or graphically analyzed, manipulated or modeled. Guided by a dialog, the user enters data into tables. Once entered, the tables are filed for future use. New columns or rows can be created from the existing ones.

To analyze statistically a portion of a data table, the command MEASURE is entered. Output includes standard statistical measurements such as mean, variance, range, kurtosis, standard deviation and skewness.

Graphical analysis of a data table is done by entering commands such as MAKE GRAPH, MAKE PIECHART, and MAKE THREED (for three dimensional graphics). All graphics are automatically filed and can be edited in such areas as colors, symbols, key location and height/width.

Simple and multiple regression are performed through the commands FIT LINE and FIT MULTIPLE. The user is prompted with options to view the correlation table, remove and add variables and save various tables generated by regression. Curve fitting works much the same way, but uses the commands FIT POLYNOMIAL and FIT FUNCTION.

Tables for modeling are developed the same as data except computational formulas may be entered as data. Modeling is performed by entering the command MAKE MODEL. RS/1 prompts the user to enter the table data through a dialog. Upon completion of the table, the command COMPUTE MODEL is used. A results table with formulas replaced by their computed values is displayed and filed.

## **PC Environment**

PC, XT, XT/370, 3270-PC or AT. The program requires 512K, 10MB drive and one diskette. DOS 2.0, 2.1 or 3.0 is necessary for the PC, XT or XT/370; DOS 2.0 or 2.1 for 3270-PC; DOS 3.0 for the AT. Printers and plotters are optional. Supported printers are 5152 model 1 matrix printer, 5152 model 2 graphics printer and 4201 Proprinter. Supported plotters are 7371 two-pen plotter or 7372 six-pen plotter. The Math Coprocessor (8087, 80287) is recommended.

## **VM Environment**

- Release 3 (5664-167) with or without HPO.
- GDDM Release 3 (5748-XXH). Release 4 is required for support of 3270 PC-AT/G or 3270 PC-AT/GX and is recommended for support of 3287 printers.

Included is a snap-on capability for use with VM/SP ES(3). To take advantage of this, one of the following licensed programs or their subsequent releases is required:



- VM/SP-System Base Release 2.0 (5750-ES1) or Engineering Scientific Support System (E/S(3)) Release 1.2 (5750-ES1).
- E/S(3) Productivity Facility Release 1.2 (5664-283).
- Printers and plotters supported by GDDM are optional.
- System Consideration: RS/1 requires 15MB of virtual storage.

## **RT Environment**

### **6151 Model 10 System Unit and Keyboard**

- One of these terminals:
  - 5151 PC Display with Enhanced Graphics Adapter
  - 5151 PC Display with Mono Display and Printer Adapter
  - 5154 PC Enhanced Color Display with EGA
  - 5154 PC Enhanced Color Display with EGA and Graphics Memory Expansion Card
  - 6153 RT PC Advanced Color Graphics Display with APA 8C Adapter

### **Optional printers:**

- 5152 Graphics Printer
- 4201 Proprinter
- 5201 Quietwriter Model 1

### **Optional plotters:**

- 7371 Color Plotter
- 7372 Color Plotter
- 7375 Color Plotter

### **Optional terminals:**

- 3161 ASCII Display
- 3163 ASCII Display (in VT100 emulation mode)
- ANSI X3.64 protocol as implemented by the DEC VT100, or equivalent
- ReGIS protocol as implemented by the DEC VT125, DEC VT240 and DEC VT241, or equivalent
- Tektronix 4100 protocol as implemented by the Tektronix 4105, Tektronix 410 6 and Tektronix 4107, or equivalent

IBM RT PC Floating Point Accelerator (recommended).

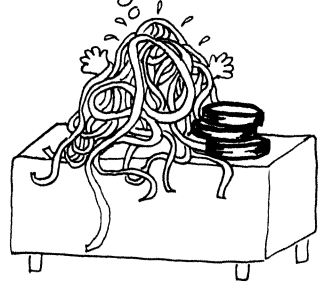
An educational allowance of twenty percent is available to qualifying educational institutions. It is not additive to any other discount. Quantity discount applies also.

# System Modification Program/Extended

HELP!

## MVS Custom-Built Offerings

SMP/E	5668-949
CBIPO	5751-CS1
CBPDO	5751-CS3
Process Aids	5751-CS2
Drivers	5665-343



**SMP/E** is IBM's answer to the 'tangled tapes' syndrome. It includes the MVS Custom-Built Installation Process Offering (CBIPO) and the MVS Custom-Built Product Delivery Offering (CBPDO). Together they reduce the complexity of ordering, distributing, installing, customizing and servicing your MVS systems and subsystems. With this software you order a system tailored to your needs; and you install and maintain it efficiently.

When you order CBIPO or CBPDO, choose from four separately orderable features:

- **MVS**—includes MVS/XA or MVS/370 and the associated IBM system control program and licensed programs
- **NCP**—includes ACF/NCP and associated programs
- **Data Base Systems**—includes IMS, Database 2 and associated programs
- **CICS**—includes CICS and associated programs

SMP/E is used to install and manage changes to MVS systems and subsystems. These changes may mean an entirely new system (such as a CBIPO), or upgrades of function and service to your system or other software, such as one of your own programs. As long as the software is packaged as an SMP/E system modification, or *SYSMOD*, SMP/E can install it. You can get information on how to package software as a *SYSMOD* from the *SMP/E Program Packaging Guide*.

## Highlights

- Selects the correct level of change from many potential changes.
- Invokes utility programs to install the changes automatically.
- Maintains records of the changes, and the function and service level of every element within the system.
- Manages Program Temporary Fixes in error.

- Can be used to install both IBM and customer programs.
- You can use interactive or batch modes.
- Enables installation of the Custom-Built Offerings.

### **Custom-Built Offerings**

Whether you are installing a new system or updating an existing one, you can order one of these:

- **CBIPO** is a package that helps you create or replace an MVS system or subsystem. It consists of distribution libraries customized to the programs you select and related installation materials (RIMs), which include task-oriented documentation, jobs, sample exit routines, procedures, parameters and examples developed by IBM. PTF service arrives integrated.

You can order CBIPO Process Aids, which are RIMs for a model MVS system without any product code, and the MVS CBIPO Driver, which is a load-and-go MVS system designed to help you install a CBIPO system if you don't already have an MVS system to use.

- **CBPDO** helps you add or update products and service on an existing MVS system or subsystem. The package may consist of products and service, or just service. It includes the basic machine-readable documentation needed to install the products.

Your CBPDO order will include service for all the products for which you are licensed under a single customer number. Also, any service that has been approved but has not been distributed yet on a PUT tape will be included in the order.

### **SMP/E Dialogs**

The dialogs allow you to run SMP/E as an application under ISPF/PDF. They can help you accomplish:

- Administration. Helps you set up the SMP/E data sets.
- SYSMOD Management. Provides a step-by-step path through the installation and service processes. The dialogs generate and submit the SMP/E background jobs for you.
- Query. Supplies information from the SMP/E data sets, such as:
  - Status, contents and attributes of a SYSMOD
  - Function and service level of a module or macro
  - Values established for use by dynamic allocation
  - Other user-defined control information

- **Command Generation.** Generates batch jobs containing SMP/E commands and submits the jobs for processing.

The dialogs include an extensive tutorial and overview on how to use the panels.

### **Potential Benefits**

- **Increases productivity:**
  - A new or occasional user can use the dialogs to install and maintain software without knowing a great deal about the SMP control language and the system's library structure.
  - An experienced user has more control over SMP/E operations, more ability to manage the control data and extensive resources for research and planning for system updates.
- Automatically manages exception conditions such as PTFs in error.
- Provides flexibility that enables MVS and the subsystems to be installed on independent schedules.
- Enhances the MVS system generation process with the GENERATE command, which helps to install programs that do not have SYSGEN support.

### **Converting to SMP/E**

You can convert your system in one of two ways:

- **Install a CBIPO.** When you order a CBIPO, your order automatically includes SMP/E. The installation process for MVS makes SMP/E available to the driving system as part of the installation.
- **Update your system.** Initially, SMP4 is used to install SMP/E into a system. Installation consists of allocating data sets and running SMP4 RECEIVE, APPLY and ACCEPT commands. This incorporates the SMP/E executable code and dialogs into target system libraries and distribution libraries.

After you have installed SMP/E into your system, other SMP/E commands are used to initialize the required SMP/E CSI data sets and to convert the SMP4 data sets to the VSAM CSI format.

### **Environment**

- SMP/E operates with MVS/370 and MVS/XA.
- If you want to use the SMP/E dialogs use ISPF, Version 1 or 2 and ISPF/PDF, Version 1 or 2.

## Publications

There is no charge for general information in reasonable quantity; other publications are billable. Use the Order card in back.

GC23-0351 Software Manufacturing General Information  
SC23-0352 MVS Custom-Built Offerings Planning & Installation  
SC23-0221 SMP/E Program Packaging Guide



## System/36 Computer-Assisted Training 5710-CAT \$990

This program is a training aid for persons responsible for operating, programming or managing a System/36 installation. Training courses are tailored for workstation operators, system console operators, beginning programmers, advanced programmers and experienced data processing users.

### Highlights

- 'Help' text is available for menus and screens.
- Course material may be selectively printed.
- Course progress is maintained for each student and may be displayed or printed.
- Security features enable only a specified password to enroll, display or view a student's record.
- Provides search facilities in reference and lesson mode.
- Concurrent use by multiple students is permitted.

- Uniformity and consistency of training is provided for operators and operations personnel.
- Course reference materials, glossary and bibliography are online.

Students may take these courses on a scheduled or time available basis. They may repeat, interrupt and resume all lessons and exercises. Each course provides hands-on training through a series of lesson text screens, a review quiz and practical exercises.

Send for the free brochure GB30-2233 on the Order card in back. A user's guide SB30-2234 is available for a small charge.

## **UCC TWO™ 5796-PWW \$49,500**

This program reduces the time, effort and expense of migrating batch application programs from a VSE operating system to MVS or XA. The program bypasses conversion of source programs by adapting the code to execute under MVS. The adapted program has access to the full capabilities of MVS, as well as to the UCC TWO service subroutines. Many conversions also will use the companion program, VSE JCL Conversion Aid 5798-DPH, \$11,000 or \$500 monthly.

- Supplies the interface to execute and maintain adapted VSE programs under MVS.
- Provides these programs with available MVS facilities.
- Supports VSE facilities not available in MVS.
- Requires no additional or special hardware.
- Allows either adapted VSE or MVS programs to be executed on a program-by-program basis in a multistep job.
- Enhances productivity through the use of MVS features such as Generation Data Groups, MVS cataloging and Library facilities, and dynamic allocation of data sets.

### **Potential Benefits**

- Reduces the time, effort and expense of the migration.
- Increases productivity through use of MVS features.
- Supports existing VSE facilities not available in MVS.
- Requires no additional or special hardware to function.

Use the Order card in back to request brochures G320-9190, G320-0440 and G320-0324.

## Videotex/370 5798-DTW \$75,000 or \$4,000 monthly

This program permits the user to implement a videotex service. Videotex/370 supports NAPLPS and ASCII standards. The basic premise of videotex technology is that it requires no training to use and permits information and transactions to be exchanged with a host System/370 through a two-way (switched) system, such as a public telephone network. This interactive technology uses the PC to display information with color and graphics.

Videotex/370 delivers data-based information to terminals in the communications environments of Systems Network Architecture or X.25 packet switching. Videotex/370 operates with: PC/Videotex-Graphic Artist Facility (VTXGRAF), PC/Colorview and PC/Videotex to provide a videotex system solution. See the article on Videotex in the Rose pages.

### Highlights

- **Standards** support NAPLPS and ASCII data bases. These protocols offer many videotex capabilities, from simple color text to sophisticated alpageometric graphics for higher resolution.
- **Information Services** allow an information service to be set up without programming. The information provider needs to create the frames and define the tree structure, and little else.
- **Transactional Services** interface allows users access to existing data bases. CICS applications can be adapted or written for display in videotex format.
- **Remote Host Gateway Service** interfaces via an X.25 packet switched data network to send and retrieve data from remote hosts.
- **Search Methods** of keywords and mnemonics enable users to move more rapidly within a service, to move directly to the desired frame or to move to another service.
- **NAPLPS** provides host support to the information provider using the IBM PC, VTXGRAF and a 3277/78/79 terminal, and to the user of PC/Videotex.
- **ASCII** provides host support to the user using PC/Colorview, and to the information provider using a 3277/78/79 terminal, a PRESTEL® editor for creation of non-graphic color ASCII text, or a PC editor and the 3101 Emulation Program for monochrome ASCII.
- **Business Graphics** provide an interface for the user's own program to supply data extracted from existing data files. Online graphic

representations in NAPLPS format can be displayed in bar, line, pie, line surface, or line and bar charts.

- **Messaging** allows users of the system to exchange messages.
- **A set of utilities** stores frames of information transferred to the host, defines frames for display and defines new services available to users.
- **Security** controls access to the Videotex/370, page files and to types of services.
- **Statistics** logs user interactions with the system. Date, time and length of sessions can be recorded for planning purposes.

**Potential Benefits** An extensive videotex system can be implemented rapidly with little or no user programming.

**Environment** MVS or CICS

Send for the Availability Notice G320-9388 by using the Order card in back.

## **Voice/Text Messaging System 5796-PZB \$10,560 or \$480 monthly**

**Voice/Text Messaging System** is a VM-based product that provides full text messaging services through a proper name and telephone number directory.

**PhoneMail** is a voice messaging system for use with a Rolm CBX, non-Rolm PBX or Centrex system. PhoneMail provides voice store and forward, telephone answering, call processing, message waiting notification and communication with VM/VTMS. PROFS users also benefit from the integration of VTMS and PhoneMail.

### **VTMS**

This program is designed to assist message center operators. It provides a directory service, keyed by proper name or phone number, for entry and delivery of text messages. The casual data processing user does not need information such as network node and virtual machine IDs to send a simple message. A VTMS user can send and receive messages, perform message filing functions and broadcast a message to multiple users.



## **Message Center Support**

Message center personnel work with an easy-to-use, text message entry facility that includes the receiver's work profile and signout status. Message taking is done using function keys for frequently used messages (i.e., Urgent, Please Call, Will Call, Return Call).

## **Message Delivery**

Messages are formatted and delivered according to profile information in the VTMS directory. They may be delivered anywhere in the network, to personal VM or MVS IDs or to dedicated VTMS public messaging workstations. Users may choose to have their messages archived by the system or copied and sent to another user while they are away from their office.

## **VTMS and PROFS**

PROFS is IBM's strategic office system product for VM. It provides many office functions, one of which is note preparation and delivery. VTMS was designed to complement PROFS by providing telephone messaging services. A message received by an attendant is sent to a user with a VM ID and formatted as a PROFS note. The PROFS "open mail" facility receives VTMS messages as if they were notes from another PROFS user. With PhoneMail connected to VTMS, voice message notification and identification is added to the rich selection of communication options.

## **PhoneMail**

PhoneMail configurations range from four to 128 channels to provide voice messaging and telephone answering for forty to 8,000 subscribers. These configurations may be integrated with the Rolm CBX or to non-Rolm PBX and Centrex systems.

It offers four capabilities:

- Voice messaging for subscribers
- Telephone answering and call processing for callers
- System usage and monitoring for system administration
- Integration with IBM office systems through VTMS

## **Voice Messaging**

Voice messaging is based on PhoneMail's capability to compress and store digitized speech on disk. PhoneMail subscribers record and send voice messages to other subscribers using any tone-generating (dual tone multi-frequency) or rotary telephone with a tone-dialer. PhoneMail subscribers can address voice messages by entering the recipients' names or extensions. The system stores the messages in voice mailboxes, and

directs the Rolm CBX to notify the subscribers of waiting messages. Subscribers can call the PhoneMail system to access their mailboxes and listen to their voice messages.

### **Telephone Answering and Call Processing**

PhoneMail offers telephone answering services too. When a subscriber's telephone is busy, unattended or set on Do-Not-Disturb, calls can be forwarded to the system.

Some PBXs, when appropriately configured, will notify PhoneMail of the extension of the person being called. Because it is integrated, the Rolm CBX will always indicate the extension of an internal call. PhoneMail plays the called party's personal greeting and allows callers to leave a message in the appropriate voice mailbox. Callers can leave detailed, even confidential messages.

### **Transfer Out of PhoneMail**

Once callers are on the system, they can transfer to another extension by entering the desired party's name (if they are a subscriber) or extension.

### **Attendant Assistance**

PhoneMail assists telephone attendants by automatically answering and routing incoming calls for departments or organizations. This increases their time to concentrate on other tasks. This assistance also provides an inexpensive alternative to direct inward dialing, by answering incoming central office calls and transferring them to specified parties.

Information mailbox services are also available. PhoneMail answers incoming calls with a greeting that instructs the caller to transfer to a selection of information mailboxes.

### **System Administration**

This allows system administrators to create and modify system and individual user parameters. Performance and activity reports help monitor usage and plan for future growth.

### **VTMS, PROFS and PhoneMail**

With the PhoneMail/VM host link option, subscribers of PhoneMail and VTMS only need to check one place for notification of all incoming mail—their phone or VM terminal. A PROFS user may 'open the mail' to find all text messages, and voice message notification. The VM link represents the first integration of PhoneMail with IBM office systems.

## **Voice Message Notification on VM**

PhoneMail systems with optional VM host link software can now communicate with IBM hosts running VM, VTMS and PROFS (optional). VM notifies VTMS and PROFS users of new PhoneMail messages. If a new voice message is left with PhoneMail, it will send a message to VTMS to notify the user of the waiting voice message. This notification is sent only if the user has no other new PhoneMail messages.

A VTMS/PhoneMail user is first notified of the new voice message with a message on his VTMS menu. The VTMS in-basket processor may be used to receive/view the text notification of the voice message. Under PROFS, a "new mail waiting" message will appear to indicate that the PROFS in-basket should be viewed. The user then calls PhoneMail to pick up new messages.

## **Identification of Caller**

If you want to know who the voice messages are from, without calling PhoneMail, a facility can be activated from the VTMS menu or a PROFS screen, that will forward a request to PhoneMail to send voice message header information. PhoneMail will send information to VTMS that includes message source (i.e., internal/external) and time received, plus the calling extension for internal calls. These headers also include caller name for messages received from other subscribers.

## **Text Message Notification on PhoneMail**

PhoneMail also notifies subscribers when new text messages are received by VTMS. Subscribers hear a special prompt informing them that new VTMS messages are waiting and the time and date that the last new message was received. On systems integrated with the Rolm CBX, notification is also made by activating telephone message waiting lights and initiating interrupted dial tone. There is no notification of new PROFS notes or messages to PhoneMail.

## **Potential Benefits**

With PhoneMail and VTMS installed and integrated, a business can choose to have calls forwarded to a message center attendant, using VTMS to record messages, or have PhoneMail record voice messages. The caller can select whether to use PhoneMail or transfer to an attendant. Through configuration of the Rolm CBX, individuals may specify which messaging system should handle outside or inside calls, and whether it should be done on no-answer or busy. For either voice or text messages, a user is notified on both his terminal and telephone of new messages.

PhoneMail cuts down on telephone tag and can be a productivity tool for all office workers. It is especially effective for relaying messages to people travelling and communicating between different time zones.

## **Highlights**

### **VTMS**

- Directory services, available through proper name and phone number, allow users to determine where a person is and prompts them to send a text message.
- Message delivery throughout the enterprise network.
- Signout status facilities, including an option to send copies of messages to another user.
- Note compatibility with PROFS, and in-basket processing for VTMS and PROFS messages, allows users on the same network to communicate as if they were using the same system.
- Message taking is facilitated through the use of PF keys.
- Directory maintenance supports networking of directory changes. This allows a systems administrator on one VM node to maintain multiple VTMS directories through one maintenance operation.
- Number of users is limited only by disk and storage space on one disconnected VM ID, which owns the VTMS directory.

### **PhoneMail**

- Parties can still communicate even when they are not available at the same time.
- Allows subscribers to leave and retrieve stored voice messages at any time from any tone-generating telephone by entering the recipients' name or extension.
- Automatically answers a subscribers' telephone (if desired), plays a personal greeting, and allows callers to leave detailed messages in their own voice.
- Delivers voice prompts over the telephone for easy operation.
- Answers and transfers incoming calls as a supplement to the attendant or message center.
- Expandable to support from forty to 8,000 subscribers with configurations of:

- Four 128 channels
  - Five-392 hours of message storage
- Provides enhanced capabilities through integration with the Rolm CBX :
    - Notifies subscribers when messages are waiting
    - Allows multiple personal greetings based upon selected call conditions (e.g., busy, ring-no-answer, internal call, external call)

### **VTMS/PhoneMail**

- Networked VTMS or PROFS notification of new voice messages.
- PhoneMail notification of new VTMS text messages from anywhere in a VM network.
- Current voice message status shown on VTMS menu.
- Ability to access PhoneMail message header information on VM showing time/date for all calls and name/number of subscribers who leave voice messages.

### **Environment**

VTMS runs on VM Release 3 or later. Networking is accomplished through Remote Spooling Communications Subsystem (RSCS). Installation requires one disconnected ID with at least 3M of storage and 15 cylinders of 3350 disk space.

PhoneMail Release 3.0 is designed to operate with any Rolm PhoneMail system with Release 2.0 (or later) hardware.

PhoneMail/VM Host Link is a software option available only with PhoneMail Release 3. A dedicated BSC point-to-point line defined to the host as 2780 protocol is required.

The connection between PhoneMail and VM also requires an asynchronous-to-2780 bisynchronous protocol converter, which is sold and serviced through Rolm.

### **Publications**

PhoneMail Release 3 Product Description for systems integrated with the Rolm CBX (G520-6192)

PhoneMail Release 3 Product Description for non-Rolm PBX or Centrex systems (G520-6193)



## Section Two

## Personal Computer







## Personal Computer

Although the PC was unveiled in 1981, IBM has marketed single workstation processors for over two decades! The immediate progenitors of the PC are the 5100, 5110 and 5120. Presently the family includes: PCjr, PC, XT, Industrial PC, RT, Convertible, XT/370, 3270-PC with its graphics models PC/G and PC/GX, AT and AT/370, Series/1 PC and the System/36 PC. Personal computers seem destined to produce permanent change in our society.

A PC catalog is available by writing the form number GBOF2777 on the Order card. This is *must* reading for serious PC owners. IBM customers should use the yellow Subscription card instead, checking the PC box.

An alphabetic listing of programs bearing the IBM logo follows on page 2-1. Most are orderable from your IBM Branch Office; most are carried by IBM authorized dealers. The following are orderable from IBM Direct—PC Order Department. You can phone your order to them at 1-800-IBM-2468 or send in the Order card in back:

- Business Management Series
- PC Instructional System (PCIS)
- PC Interactive Executive (PC/IX)
- Personal Decision Series
- PILOT
- WESTLAW™
- IX WORD/MATH
- IX RM/COBOL™
- RS/1™

A listing of vendor logo programs (service class Y, see Glossary) begins on page 2-15.

These are ordered from your IBM Branch Office. Many are available from authorized dealers.

Programs with a service class R (defined in Glossary) are designated 'Personally Developed Software'. They are contributed by IBM employees and others. They are affordably priced. They may be ordered from IBM according to the provisions specified in the rose tinted Order Form in back. Payment must accompany all orders. Applicable sales taxes must be added to order charges. They are offered under the terms and conditions of the IBM Program License Agreement. Also, they are available from participating IBM Personal Computer dealers or by phoning 1-800-IBM-PCSW.

The programs (listed in this section) bearing the IBM logo are offered under the terms and conditions of the IBM Program License Agreement, reproduced in Appendix C and included in each program package. This Agreement contains a limited warranty. The Agreement states that programs are provided "as is" without warranty of any kind, express or implied except that program diskettes are warranted to be free from defects in material and workmanship for a period of ninety days from date of delivery. IBM may discontinue offering programs covered by this Agreement at any time.

Following the two listings are descriptions of programs featured in this edition. They are selected due to their significance or current interest in the PC market. These descriptions usually suggest a minimum configuration required to operate the program.

**Note: Programs with 'Demo'** in the short name column of the listing are for use by IBM only. They are listed so you can be aware of programs that may be demonstrated. Some have been modified to limit their use to demonstration only.

Four *important* PC directions are noted in this edition:

- **Networking** to other PCs and connectivity to the S/370. The PC Local Area Network 1.1 and the IBM Token-Ring Networks recently are announced and are carried in the listings. The principal software connection to the System/370 are Attachment/370 + and PC/VM Bond.

- **The PC Interactive Executive**—a multitasking operating system of enormous flexibility and power. It is intended for scientists, academics, writers, professionals, application developers and low-level systems research and construction. It is an implementation of UNIX™ System III. It merits familiarity by all but the casual PC owner.
- **Accounting Assistant, Business Management and Business Adviser** Each Series is a family of basic business applications one that may be used stand-

alone or with each other. Connectivity to the Personal Decision Series is optional. The functions are similar but represent three degrees of depth, richness and sophistication.

- **The Personal Decision Series** High powered productivity tools for the professional and power user. A common data base is used for all modules, each of which is selectably optional.





Program Title	Short Name	Number	OTC	ILC	MLC	DSO	DSI	DSM	MLP	HML	Mo	MoreInfo	Environment	TPLS
A Departmental Reporting System	ADRS/PC	6428-092	355									.GH20-0023	PC	OSX
*Academic Information System 4.2	BSD 4.2	5799-CG2	1715										RT	OSC
Accounting Solutions		6024-152	89									.G520-3917	PC,XT,PCjr,PPC	OSZ
Accounts Receivable by BPI tm		6024-027	425									.G520-3917	PC	OSZ
*Acctg Assistant Series - A/R and Billing		6317-051	595										PC,XT,AT	OSZ
*Acctg Assistant Series - A/R and Billing		6467-006	595										3.5" disk	OSZ
*Acctg Assistant Series - Accounts Payabl		6317-050	595										PC,XT,AT	OSZ
*Acctg Assistant Series - Accounts Payabl		6467-004	595										3.5" disk	OSZ
*Acctg Assistant Series - General Acctg		6317-049	595										PC,XT,AT	OSZ
*Acctg Assistant Series - General Acctg		6467-003	595										3.5" disk	OSZ
*Acctg Assistant Series - Inv Ctl & Purch		6317-053	595										PC,XT,ATk	OSZ
*Acctg Assistant Series - Inv Ctl & Purch		6467-007	595										3.5" disk	OSZ
*Acctg Assistant Series - Inventory Contr		6317-052	595										PC,XT,AT	OSZ
*Acctg Assistant Series - Job Costing		6317-054	595										PC,XT,AT	OSZ
*Acctg Assistant Series - Job Costing		6467-008	595										3.5" disk	OSZ
*Advanced Program-to-Program Communicatn	APPC	6467-038	150										PC,PPC,XT,AT+adapter	OSH
Adventures in Math (Feature 4112)		6024-112	39									.G520-3917	PC,PCjr,XT	OSZ
*Aeromathics		6276-582	20										PC,XT,AT,PCjr,3270PC	OSR
*Algebra Drills		6276-598	20										PC,XT,PCjr,AT,3270PC	OSR
Algebra Tutor		6276-529	30										PrivTutor or 6276602	OSR
Alley Cat tm		6276-621	25										PC,XT,jr,PPC	OSR
Animation Creation (Feature 4082)		6024-082	45									.G520-3917	PC,PCjr,XT	OSZ
*Answer/DB (R) for PC Products		5798-DWG	35000									.GH20-9244	CICS/05 or IBM/DC	15H
*Answer/DB (R) for PC Products		5798-DWG/01	20000									.GH20-9244	CICS/VSE	15H
API		6024-077	195									.G520-1107	PC,XT	OSZ
API Data Interface	APLDI/PC	6410-978	355									.G520-3917	PC,XT+8087+6024-077	OSH
APL2 for XT/370, AT/370		5668-899/01	735		49								3020,3021	OSZ
APT Advanced Contouring XT/370 Feat		5740-M53/01	1500		75								3013,3014	OSC
APT Advanced Contouring Release 4	APT-AC	5740-M53			1185							.GH20-1423	OS/V5,XT/370	15E
APT Intermediate Contouring	APT-IC	5740-M52			713							.GH20-1424	OS/V5	15E
APT Intermediate Contouring XT/370		5740-M52/01	1000		50								3011,3012	OSC
Arithmetic Games Set 1		6024-024	60									.G520-3917	PC,PCjr	OSZ
Arithmetic Games Set 2		6024-025	60									.G520-3917	PC,PCjr	OSZ
Assembler H XT/370		5668-962/01	432		9								3002,3011	OSC
Assistant Home Solutions		6024-150	69									.G520-3917	PC,XT,PCjr,PPC	OSZ
Asynchronous Communication Support		6024-032	65									.G520-3917	PC	OSZ
*Asynchronous Server for Token & PC Netwk		1642-003	495										Token-Ring NETBIOS	OSZ
+Attachment/370+		6317-047	300									.GH30-0760	PC,XT,AT,3270-PC/AT	OSG
+Attachment/370+ Upgrade from 6316971		6467-046	101									.GH30-0760	Attach 370 Edition	OSG
Augmented Phone Services		6280-740	149										PC,XT,AT+VoiceComOpt	OSZ
Automated Information Management		6410-974	429									.G320-9214	PC,XT,PPCcolorD052+	OSH
Backgammon		6276-502	20										PC,XT,PPC,jr,3270-PC	OSR
+BANCSar tm 4700 Account Opening		6430-784	750										PC,XT,AT+4700	OSE
+BANCSar tm 4700 Consumer/Consumer Loan		6430-786	1995										PC,XT,AT+4700	OSE
+BANCSar tm 4700 Mortgage Loan		6430-785	1995										PC,XT,AT+4700	OSE
+BANCSar 4700 Generator		6430-788	4500										PC,XT,AT+4700	OSE
+BANCSar 4700 Mtg.Consumer/Consumer Loan		6430-787	2995										PC,XT,AT+4700	OSE
BASIC - A Private Tutor		6024-081	39									.G520-3917	PC	OSZ
*BASIC Compiler Upgrade from 1.0 to 2.0		6024-215	209									.G520-1107	DOS 2.1 or later	OSZ
*BASIC Compiler Version 2		6280-078	539										3.5" drive	OSG

Program Title	Short Name	Number	OTC	ILC	MLC	DSO	DSI	DSM	MLP	MML	Mo	Program Info	Environment	TPLS
BASIC Compiler 2.0		6024-216	539									G520-1107	DOS 2.1 or later	0SZ
BASIC Interpreter (Feature 4101)		6024-101	75									G520-3917	PCjr+DOS 2.1	0SZ
Basic Number Concepts (Private Tutor)		6024-297	55									G520-1107	PC,PCjr,XT,AT,PPC	0SZ
BASIC Primer		6024-053	65									G520-3917	PC	0SZ
BASIC Primer Version 2		6024-129	65									G520-1107	PC,XT,PCjr	0SZ
BASIC Processor and Library XT/370		5668-996/01	1008		22								3003.3012	0SC
+BASIC 3.2		6280-075	45										PC,XT,AT,PPC,PCjr	0SZ
Batch SNA Communications		6428-147	385									G320-9186	PC	0SH
Beyond basic BASIC		6276-532	20										PrivTutor or 6276602	0SR
BlackJack		6276-503	20										PC,XT,PPC,PCjr	0SR
+Bouncy Bee Learns Letters		6024-137	70									G520-1107	PC,XT,AT,PPC,PCjr	0SZ
+Bouncy Bee Learns Words		6024-139	70									G520-1107	PC,XT,AT,PPC,PCjr	0SZ
BRANCHBANKER tm 4700		6430-783	500									0B20-2037	PC AS (6934406)	0SE
Bridge Break 200		6276-605	25										PC,XT,jr,AT,PPC	0SR
Bumble Games tm (Feature 4094)		6024-094	45									G520-3917	PC,PCjr,XT,color	0SZ
Bumble Plot tm (Feature 4096)		6024-096	45									G520-3917	PC,PCjr,XT	0SZ
Bus Mgt Extended Support Annual Subscript		6410-950/01	225								12.	GH30-9017	See Program Descriptn.	0SG
+Bus Mgt Series Local Area Network Access LANAE		6410-965	245									G580-2002	PC Network	0SG
+Business Adviser - Accounts Payable		6466-989	995										6466988	IO5G
+Business Adviser - Accounts Receivable		6466-990	995										6466988	IO5G
+Business Adviser - General Accounting		6466-988	995										XT,AT,LAN,TokenRing	IO5G
+Business Adviser - Information Mgt Editi		6466-995	525										LAN or TokenRing	IO5G
+Business Adviser - Inventory Control Edi		6466-993	995										LAN or TokenRing	IO5G
+Business Adviser - Network Extension		6466-992	245										LAN or TokenRing	IO5G
+Business Adviser - Order Entry Edition		6466-994	995										LAN or TokenRing	IO5G
+Business Adviser - Payroll		6466-991	995										6466988	IO5G
Business Management Series Acctg Extend		6410-958	275										PC+10MB	0SG
Business Management Series Accts Payable		6410-951	775									.GH30-9013	Data Edition	0SG
Business Management Series Accts Receive		6410-952	775									.GH30-9013	PC+10MB	0SG
Business Management Series AP Training		6410-960	95									.GH30-9016	General Ledger	0SG
Business Management Series AR Training		6410-961	95										Accounts Receivable	0SG
Business Management Series Finance Exten		6410-957	275										PC+10MB	0SG
Business Management Series Gen Ledg Trng		6410-959	95									.GH30-9016	General Ledger	0SG
Business Management Series General Ledgr		6410-950	775									.GH30-9013	PC+10MB	0SG
Business Management Series Inv Training		6410-964	95										Inventory Accounting	0SG
Business Management Series Inventory		6410-955	775									.GH30-9013	PC+10MB	0SG
Business Management Series OE Training		6410-963	95										Order Entry	0SG
Business Management Series Ord Entry/Inv		6410-954	775									.GH30-9013	PC+10MB	0SG
Business Management Series Payroll		6410-953	775									.GH30-9013	PC+10MB	0SG
Business Management Series Payroll Trng		6410-962	95										Payroll	0SG
C Compiler		6280-072	495										PC,XT,AT	0SZ
+C Compiler		6280-081	495										3.5" drive	05G
Cable Data Management System		6317-002	450									G570-2040	PC+IBM Cabling Systm	0SX
+CADAM (R) DRAWING Viewing Program - Host		5796-TBP	1250									G320-0898	VM,MVS+5796-TBQ	1SH
Capitalization Skills		6024-085	55									G520-1107	Private Tutor 2.00	0SZ
Cell Functions: Growth & Mitosis		6024-316	65									G520-1107	PC,PCjr,XT,AT,PPC	0SZ
Cell Functions: Growth & Mitosis (BioSer School Pkg		6024-391	295									G520-1107	PC,PCjr,XT,AT,PPC	0SZ
Checkbook I/O		6276-616	30										PC,XT,jr,AT,PPC	0SR
Chemicals of Life I: Structure of Matter Biolog Ser		6024-317	65									G520-1107	PC,PCjr,XT,AT,PPC	0SZ
Chemicals of Life I: Structure of Matter School Pkg		6024-397	295									G520-1107	PC,PCjr,XT,AT,PPC	0SZ

Program Title	Short Name	Number	OTC	ILC	MLC	DSO	DSI	DSM	MLP	MML	Mo	MoreInfo	Environment	TPLS
Chemicals of Life II: Water, Carbo Lipid	BiolSeries	6024-344	65									0520-1107	PC,PCjr,XT,AT,PPC	05Z
Chemicals of Life II: Water, Carbo Lipid	School Pkg	6024-394	295									0520-1107	PC,PCjr,XT,AT,PPC	05Z
+Chemicals of Life: Proteins & Nucleic Ac		6024-409	65									0520-1107	PC,PCjr,XT,AT+color	05Z
+Chemicals of Life: Proteins & Nucleic Ac	SchoolPack	6024-439	295									0520-1107	PC,PCjr,XT,AT+color	05Z
<u>Chi Sperry Emulation</u>		1596-B02	795									0570-2231	PC,XT	05F
CICS to 3270-PC File Transfer Program		5798-DQH	660									.0320-0369	CICS+3270-PC CP	15H
Cluster Program		6024-107	99									0520-3917	PC,PCjr,PPC,XT	05Z
Cluster Program - Five Pack		6024-182	439									0520-3917	PC,PCjr,PPC,XT	05Z
CMS Sort Plus Extensions XT/370		5798-BDM/02	132										3037	05C
<u>COBOL Compiler</u>		6024-011	700									0520-3917	PC	05Z
COBOL Interactive Debug XT/370		5734-CB4/01	1008	22									3003,3004	05C
COBOL OS/VS Compiler & Library XT/370		5740-CB1/01	912	20									3006,3008	05C
COBOL OS/VS Library XT/370		5740-LM1/01	288	6									3007,3009	05C
COBOL VS II Compiler and Library 1.1		5668-958/01	3840	80								GC26-4042	XT/370,AT/370	05C
<u>COBOL VS II Library Only 1.1</u>		5668-940/01	1200	25								GC26-4042	XT/370,AT/370	05C
+Color Graphics Charting	GOXC	4421-519	395									SC33-0223	3270-PC Graphics CP	05M
Color Graphics Editor and Picture Plot		4421-760	385									GA33-3141	3270-PC/G or GX+GCP	05H
Color Paint		6024-299	99									0520-1107	PCjr+color	05Z
Colorview		6410-982	115									0320-0387	All	05H
<u>Comma Cat</u>		6024-293	49									0520-1107	PC,XT,PCjr,PP,At	05Z
+Computer-Integrated Electrical Design	CIEDS tm	5669-191	6000										AT	05G
Computers and Communications		6024-069	39									0520-3917	PC,XT,PCjr,PPC+60	05Z
+Concept Devt: Heat, Temperature & Graphs		6024-474	75										128k+color	05G
Corporate Cash Manager	CCM	5601-006	4400									.GH20-0391	PC,XT	05H
+Countries, Capitols and More!		6276-559	25										PC,XT,AT,PCjr,3270PC	05R
CP/M-86 tm Operating System		6024-035	259									0520-3917	PC	05Z
Cross System Product / Application Exec.	EZ-Run	6317-010	135									.0520-6004	PC,XT,AT,XT/370,3270	05G
Cross System Product/Application Generat	EZ-Prep	6317-011	1319									.0520-6004	EZ-VU Runtime	05G
Crossfire (Feature 4091)		6024-091	35									0520-3917	PCjr+DOS 2.1	05Z
<u>Crypto-Mania</u>		6276-535	20										PC,XT,PCjr,AT	05R
Crypto-Mania Puzzle Pac		6276-577	15										Crypto-Mania	05R
+Cytology & Histology: Cells & Tissues		6024-407	65									0520-1107	PC,PCjr,XT,AT+color	05Z
+Cytology & Histology: Cells & Tissues	SchoolPack	6024-437	295									0520-1107	PC,PCjr,XT,AT+color	05Z
+Daily Organizer		6276-557	20										PC,XT,AT,PCjr,3270PC	05R
<u>Data Acquisition and Control Adapter</u>		6024-202	175									0520-1107	DACS_adapter+DOS2+	05Z
Data Encoder		6024-149	109									0520-1107	PC,XT,PCjr,PPC,AT	05Z
DB/Editor/Writer		6276-554	50										PC,XT,jr,AT,3270-PC	05R
+dBASE tm / Answer		6205-238	550									0B20-2037	Answer/DB 5798-DWG	05H
Dictionary Dog		6024-067	49									0520-1107	PC,XT,PCjr,PPC,AT	05Z
<u>Disk Operating System Version 2.1</u>	DOS	6024-120	85									0520-3917	PC,XT,PCjr	05Z
+Disk Operating System 3.2 3.5"	DOS 3.2	6280-058	95										PC,XT,PPC,AT,PCjr	05Z
+Disk Operating System 3.2 5.25"	DOS 3.2	6280-057	95										PC,XT,PPC,AT,PCjr	05Z
DisplayComm Binary Synchronous Communica		6024-187	409									0520-3917	PC,XT,PPC	05Z
DisplayComm Bisynch Communications V1.1		6024-210	409									0520-1107	PC,AT+DOS 2.1 or 3.0	05Z
<u>DisplayWrite Legal Support</u>		6024-190	179									0520-3917	DisplayWrite 2	05Z
*DisplayWrite Medical Support		6024-197	179									0520-1107	DisplayWrite 2 V1.1	05Z
DisplayWrite 1		6024-188	99									0520-3917	PC,XT,PCjr,3270-PC	05Z
DisplayWrite 2 Computer-Based Training		7732-281	250									0320-1244	PC,AT+DisplayWrite 2	05C
+DisplayWrite 3 1.1		6489-766	450										PC+384k	05G
*DisplayWrite 3 Computer-Based Training		7732-284	300											05C

Program Title	Short Name	Number	OTC	JLC	MLC	DSO	DSI	DSM	MLP	MML	Mo	MoreInfo	Environment	TPLS
DisplayWrite 3 Version 1.1		6280-845	450										PC,XT,AT,3270-PC	05Z
Displaywriter/PC Attach Convenience Kit		6403-728	495									G544-2280	Textpack4+6024107	05E
DMS/CMS XT/370		5748-XXB.01	144		4								3005,3009	05C
Doctor's Office Demo & Tutorial		6360-486	nc									G520-3917	IBM Internal	N05Z
+Doctors Office Manager II		6467-055	2749										PC,XT,AT+10MB	05Z
Document Composition Facility XT/370	Script	5748-XX9/02	864		19								3003,3008	05C
Document Retrieval Assistant		6024-306	149									.G520-1107	PC, PCjr, XT, AT, PPC	05Z
DOS Enhanced Debug		6276-594	25										PC, XT, jr, AT, PPC	05R
DOS File Tracker		6276-518	20										PC, XT, jr, AT, PPC	05R
DOS File View -		6276-593	20										PC, XT, jr, AT, 3270-PC	05R
DOS Memories		6276-607	35										PC, XT, jr, AT	05R
DOS Tech Ref (Book) Upgr from 2.1 or 3.0		6279-935	65									G520-1107	DOS 3.1	01Z
DOS Technical Reference (Book)		6024-213	109									G520-1107	DOS 3.1	01Z
DOS 2 Learning to Use		6024-080	15									G520-3917	PC	05Z
DOS 3.1 (PC Network)		6024-211	85									G520-1107	All PC	05Z
DPPX/SP to 3270-PC File Transfer		5799-BRP	nc										DPPX and 3270-PC	N05E
Drawing Assistant		6024-089	169									.G520-1107	PC, PCjr, XT, AT+color	05Z
Dynamic Simulation Language XT/370		5798-PXJ.01	1000		45								3044,3045	05C
Dynamic Simulation Language/VS	DSL/VS	5798-PXJ	10000		454							.G320-0357	VM, MVS, XT/370	15H
Earthquakes (Earth Science Series)		6024-322	55									G520-1107	PC, PCjr, XT, AT, PPC	05Z
EDX Department Office Control System		5798-DQG	1980									.G320-0367	Series/1	15H
Electric Poet		6024-172	75									G520-1107	PC, PPC, PCjr, AT, XT	05Z
+Electronic Grammer (Parts of Speech)		6276-552	25										PC, XT, AT, PCjr	05R
Elementary Math Library XT/370		5799-BTB.01	30										3035	05C
Energy 2.0 (c)		5793-AGF	6000										5531,7531,7532	05Z
Engineering Simulation Program		6317-031	439									.G320-0821	PC, XT, AT+8087+FORTRA	05H
+Environment: Habitats & Ecosystems		6024-412	65									G520-1107	PC, PCjr, XT, AT+color	05Z
+Environment: Habitats & Ecosystems	SchoolPack	6024-442	295									G520-1107	PC, PCjr, XT, AT+color	05Z
Event Driven Executive Version 5.2	EDX	5719-XJ5	750									GC34-0099	Series/1-PC (4950)	15M
Executive Data Link to PC	MAPICS	5798-RRQ	2750									.GB30-2392	System/36+PC	15X
Executive Data Link to PC	MAPICS	5798-RRR	2750									.GB30-2393	System/36+PC	15X
Executive Data Link to PC (5250 Emulate)	CMAS	5798-RRP	2750									.GH30-9029	CMAS/34	15X
Executive Data Link to PC (5250 Emulate)	CMAS	5798-RRZ	2750									.GH30-9030	CMAS/36	15X
Executive Phone Directory		6276-528	35										PC, XT, jr, AT, 3270-PC	05R
Executive Phone Directory + Message Feat		6276-533	40										PC, XT, jr, AT, 3270-PC	05R
Executive Phone Directory Build Your Own		6276-524	150										PC, XT, jr, AT, 3270-PC	05R
Executive Solutions		6024-151	69									.G520-3917	PC, XT, PCjr, PPC	05Z
+Extended BASIC Programming		6276-625	35										IBM BASICcompiler1.0	05R
FACT TRACK tm		6024-023	90									G520-3917	PC	05Z
+File Conversion Utility		6276-629	30										PC, XT, PCjr, AT, 3270PC	05R
File Facility		6276-530	20										PC, XT, jr, AT, 3270-PC	05R
File Support Utilities for PC & XT	RPQ-P84058	5799-BKP	300									GC21-7995	System/38	05Z
File Support Utilities for PC & XT	RPQ-P84059	5799-BNY	300									GC21-7999	Replaced by 5727-WS1	05E
File Support Utilities for PC & XT	RPQ-P84057	5799-BNZ	300									GC21-7994	System/34	05X
File Transfer Express		6317-001	79									.3209-242	3270-PC CP+DOS 2.0	05H
FileCommand		6024-062	39									G520-3917	PC	05Z
FileCommand II		6276-558	20										PC, XT, jr, AT	05R
Filing Assistant		6024-145	165									.G320-3917	PC, XT, PCjr, PPC	05Z
Fixed Disk Organizer (Feature 4111)		6024-111	55									G520-3917	PC, XT	05Z
FORTRAN Compiler Version 2		6024-127	385									G520-3917	D052+	05Z



Program Title	Short Name	Number	OTC	ILC	MLC	DSQ	DSI	DSM	MPL	MHL	Mo	MoreInfo	Environment	TPLS
FORTRAN Elementary Math Library	RPQ P81005	5799-BTB	300									GH20-5370	VM,MVS+FORTRAN	1SE
FORTRAN Tutor		6276-567	20										PrivTutor or 6276602	0SR
FORTRAN VS Compiler & Library XT/370		5748-F03/01	816										3000,3006	0SC
FORTRAN VS Interactive Debug XT/370		5668-903/01	1152										3006,3010	0SC
FORTRAN VS Library XT/370		5748-LM3/01	192										3001,3007	0SC
FORTRAN 77 Interactive Compiler	INfort	6410-971	275									.G320-0345	PC/IX	0SH
FORTRAN 77 Professional ANSI ComptLibr		6024-200	649									G520-1107	8087/80287+DOS 2.1+	0SZ
Freddy's Rescue Roundup		6276-511	20										PC, XT,PCjr,PPC	0SR
General Accounting by BPI tm		6024-026	425									.0520-3917	PC	0SZ
General Purpose Interface Bus Adapter	GPIB	6024-201	89									G520-1107	GPIB+DOS2+	0SZ
Gertrude's Puzzles		6024-098	49									G520-1107	PC,XT,PCjr,PPC	0SZ
Gertrude's Secrets		6024-097	49									G520-3917	PC,XT,PCjr+Color	0SZ
+Get Set for Writing to Read		6024-468	295										PCjr+Speech attachmt	0SZ
Get Set for Writing to Read - Book Set		6024-469	6										6024468	0SZ
Graphical File System	Metafile	6024-205	189									G520-1107	Graphics/Prof CRT	0SZ
Graphical Kernel System	GKS ANSI	6024-203	319									G520-1107	PC,XT,PPC,AT+DOS 2.1	0SZ
Graphics Control Program Upgrade to V3		1887-970	100									GA33-3157	3270-PC GCP Ver 2	0SH
+Graphics Control Program 3.2		6243-245	550										3270-PC	0SM
+Graphics CP 3.2, Addl update from 3.1		1887-962	55										GCP 3.1	0SM
+Graphics CP 3.2, Single update from 3.1		1887-961	nc										GCP 3.1	N0SM
+Graphics CP 3.2, Upg from 2.0		1887-959	100										GCP 2.0	0SM
-Graphics Development ToolKit		6024-196	385									G520-1107	Replaced by 6280082	0SZ
+Graphics Development ToolKit 1.1		6280-076	495										PC,XT,AT,PPC,PCjr	0SZ
+Graphics Development ToolKit 1.1		6280-076/01	800										Redistribution licen	0SZ
-Graphics Devt ToolKit 1.1 Upg from 1.0		6280-082	250										6024196	0SZ
Graphics Terminal Emulator		6024-206	319									G520-1107	PC,XT,PPC,AT+DOS2.1+	0SZ
Graphing Assistant		6024-147	165									.G320-3917	PC,XT,PCjr,PPC	0SZ
Ground Water - Earth Science Series		6024-122	55									G520-1107	PC,XT,PCjr,PPC+DOS2+	0SZ
Guide to Operations Version 2.02		6936-810											XT	0SZ
Hardware Maintenance and Service 5150		6025-072	155									G520-3917	PC	0SZ
Hardware Maintenance and Service for XT		6936-809	155									G520-3917	PC	0SZ
-High Level Language Applic Prog Interfce		1753-180	139									G520-1107	3270-PC CP+DOS2	0SH
High-Accuracy Arithmetic FORTRAN Subrout	ACRITH	5664-185/01	150										3002 XT/370+VM/PC	0SC
High-Accuracy Arithmetic Subroutine Libr	ACRITH 1.3	5664-185	2500									GC33-6163	VM+5748-F03,5748-LM3	1SE
Home Budget, jr (Feature 4130)		6024-130	45									G520-3917	PC,PCjr,XT	0SZ
Homework tm (Feature 4090)		6024-090	75									G520-3917	PCjr	0SZ
+Hopping Down the Math Trail		6276-633	20										PC,XT,PCjr,AT+color	0SR
Host Data Base View	HDBV	6466-998	395									G520-1107	MVS/VM+PC,XT,AT	0SZ
+Human Life Processes		6024-411	65									G520-1107	PC,PCjr,XT,AT+color	0SZ
+Human Life Processes	SchoolPack	6024-441	295									G520-1107	PC,PCjr,XT,AT+color	0SZ
Human Life ProcessesI: Cellular Physiolo	Biolog Ser	6024-346	65									G520-1107	PC,PCjr,XT,AT,PPC	0SZ
+Human Life: Development & Differentiatn		6024-414	65									G520-1107	PC,XT,AT,PCjr+color	0SZ
+Human Life: Development & Differentiatn	School pkg	6024-444	295									G520-1107	PC,XT,AT,PCjr+color	0SZ
Hydrologic Cycle - Earth Science Series		6024-121	55									G520-1107	PC,XT,PCjr,PPC+DOS2+	0SZ
I Can Be Anything		6024-304	50									G520-1107	PC,PCjr,XT,AT,PPC	0SZ
IIAS XT/370		5668-011/01	1890			60							3013,3008	0SC
IIPS XT/370		5668-012/01	604			18							3009,3014	0SC
Image Processing System	PCIPS	6466-996	310									G320-0823	All ex PCjr+color	0SH
Info Syst for Attny - Upgr from 5793-ADT Series 900		5793-AEG/01	925										4517	0SH
INFOPC		6276-556	40										PC,XT,jr,AT,PPC	0SR

Program Title	Short Name	Number	OTC	ILC	MLC	DSO	DSI	DSM	MLP	MML	Mo	MoreInfo	Environment	TPLS
Information Systems Mgt Analysis		6316-974	549									.3209-208	PC,XT	05H
Instructional System - Administration	PC/IS	6428-087	439									.G320-0441	PC	.05X
Instructional System - Authoring	PC/IS	6428-072	575									.G320-0441	PC	.05X
Instructional System - Presentation	PC/IS	6428-071	89									.G320-0441	PC	.05X
Insurance Agency System		6024-065	2500									.G520-3917	PC	05E
Intelligent Workstation Support 3101 Emu	RPQ-Pxxxxx	5799-TGC	150									GC34-0545	PC/XT to S/1 to S/370	05X
Interactive Executive for System/370	IX/370	5667-126	10000								495 792	GC33-6207	VM+Series/1	T2SK
+Interactive Executive 3270-PLUS	IX/370	6317-060	995									.G320-0837	AT+Xenix+SDLC adaptr	05H
Interactive Network and Message System	INnet	6410-976	329									.G320-0346	PC/IX	05H
+Introductory Editor		6276-589	20										PC,XT,AT,PCjr,3270PC	05R
Inventory Control by BPI tm		6024-030	425									.G520-3917	PC	05Z
+Investigating Acceleration		6024-403	75									0520-1107	PC,PCjr,XT,AT+color	05Z
+Investigating Conservation of Energy		6024-406	75									0520-1107	PC,PCjr,XT,AT+color	05Z
+Investigating Electric Fields		6024-464	75									0520-1107	PC,XT,AT,PCjr+color	05Z
+Investigating Gravitational Force		6024-404	75									0520-1107	PC,PCjr,XT,AT+color	05Z
+Investigating Models of Light		6024-465	75									0520-1107	PC,XT,AT,PCjr+color	05Z
+Investigating Thermal Energy		6024-405	75									0520-1107	PC,PCjr,XT,AT+color	05Z
+Investigating Wave Interference		6024-466	75									0520-1107	PC,XT,AT,PCjr+color	05Z
IPF XT/370		5748-MS1/01	196								4		3004, 3010	05K
ISPF XT/370		5668-960/01	600										3007, 3015	05C
-ISPF/PC Development Facility	EZ-VU	6410-980	130									.G520-3917	EZ-VU Runtime	05X
+ISPF/PC II Development Facility	EZ-VU II	6317-026	495									.G520-6006	Runtime (6317025)	05G
+ISPF/PC II Development Subscriber Update	EZ-VU II	6265-484	30									0520-6006	6317026	05G
+ISPF/PC II Devt Nonsubscriber Updates	EZ-VU II	6265-485	55									0520-6006	6317026	05G
+ISPF/PC II Runtime Facility	EZ-VU II	6317-025	59									.G520-6006	All except PCjr	05G
+ISPF/PC II Runtime Nonsubscrbr Updates	EZ-VU II	6265-487	55									0520-6006	6317025	05G
+ISPF/PC II Runtime Subscriber Updates	EZ-VU II	6265-486	30									0520-6006	6317025	05G
-ISPF/PC Runtime Facility	EZ-VU	6316-969	55									.GC34-4001	PC,PCjr,3270-PC,AT	05X
ISPF/PDF for XT/370		5664-172/01	990										3001, 3000	05C
ISPF/PDF PC Editor	EZ-VU	6466-974	150										EZ-VU Runtime	05G
IX CONNEXION Compiler (DIBOL tm)		6317-043	850									.G320-0912	PC/IX	05H
IX CONNEXION Compiler (DIBOL tm)		6317-062	975									.G320-0912	XENIX tm	05H
IX CONNEXION Runtime (DIBOL tm)		6317-044	425									.G320-0912	6317043	05H
IX CONNEXION Runtime (DIBOL tm)		6317-063	500									.G320-0912	6317062	05H
IX Integrated WORD/MATH		6316-989	659									.3209-223	PC/IX	05H
IX INword		6316-970	475									.G320-0347	PC/IX	05H
IX RM/COBOL tm Compiler & Runtime Interp		6316-996	825									.3209-234	PC/IX	05H
IX RM/COBOL tm Run Time Interpreter		6316-997	249									.3209-234	PC/IX	05H
IX UltraCalc (R)		6317-039	350									.G320-0975	PC/IX	05H
IX UltraCalc (R)		6317-040	395									.G320-0975	XENIX tm	05H
IX WORD/MATH		6317-038	800									.G320-9223	XENIX tm	05H
Job Cost System by BPI tm		6024-029	550									.G520-3917	PC	05Z
JoyMouse		6276-606	15										PC,XT,jr,AT+Joystick	05R
Juggles' Butterfly tm (Feature 4095)		6024-095	39									0520-3917	PC,PCjr,XT	05Z
+JustEdit		6276-590	20										PC,XT,AT,PCjr	05R
Kaleidoscope		6276-519	15										PC, XT, jr, PPC, 3270-P	05R
Karel the Robot		6024-066	150									0520-1107	PC,XT,PCjr,PPC	05Z
+Landslides 1.0		6024-324	60									0520-1107	PC,XT,AT,PCjr,PPC	05Z
Language Extension System-Assembler		6276-584	25										PC,XT,jr,AT,PPC	05R
Language Skills		6024-084	55									0520-1107	Private Tutor 2.00	05Z

Program Title	Short Name	Number	OTC	ILC	MLC	DSO	DSI	DSM	HLP	MML	Mo	MoreInfo	Environment	TPLS
Leaf Structure & Physiology (Biol Series)		6024-318	65									G520-1107	PC,PCjr,XT,AT,PPC	0S2
Leaf Structure & Physiology (Biol Series)	School Pkg	6024-388	295									G520-1107	PC,PCjr,XT,AT,PPC	0S2
Learning DOS		6024-063	45									G520-1107	PC,XT,PCjr,AT,PPC	0S2
Lights Plants & Photosynthesis (BiolSer)		6024-119	65									G520-1107	PC,PCjr,XT,AT,PPC	0S2
Lights Plants & Photosynthesis (BiolSer)	School Pkg	6024-393	295									G520-1107	PC,PCjr,XT,AT,PPC	0S2
+Lines Plus		6276-636	20										PC,XT,PCjr,AT,3270PC	0SR
Liptocoe		6276-569	20										PC,XT,jr,PPC,3270-PC	0SR
Listen to Learn		6024-165	195									G520-1107	PC,PCjr,XT,AT,PPC	0S2
+Lite Editor		6276-637	25										PC,XT,PCjr,AT,3270PC	0SR
Local Area Network PrintManager		6317-062	800									G520-5102	PC Network, OMNINET	0SH
L000 (R) with Turtle Graphics		6024-076	175									G520-3917	PC,PCjr	0S2
Logo Learner		6024-136	110									G520-1107	PC,PCjr,XT,AT,PPC	0S2
+Lotus tm / Answer		6205-239	550									0B20-2037	Answer/DB 5798-DWG	0SH
M.U.L.E. tm		6276-619	30										PC,XT,jr,PPC	0SR
*Macro Assembler		6280-077	189										3.5" drive	0SG
+Macro Assembler Version 2		6024-193	189									G520-1107	PC,PCjr,XT,PPC,AT	0S2
-Mainframe Comm Asst 1.05 Upgr from 1.0		6024-449	85										6024140	0S2
+Mainframe Communication Assistant		6024-451	199										PC,XT,AT,PCjr	0S2
+Mainframe Communication Assistant		6024-452	199										3.5" drive	0S2
Math Computation Skills (Private Tutor)		6024-305	55									G520-1107	PC,PCjr,XT,AT,PPC	0S2
+Math Concepts Series: Grades 1-2		6024-355	175									G520-1107	PC,XT,PCjr,AT 128k	0S2
+Math Concepts Series: Grades 1-2	School pkg	6024-368	789									G520-1107	PC,XT,PCjr,AT 128k	0S2
+Math Concepts Series: Grades 3-4		6024-357	175									G520-1107	PC,XT,PCjr,AT 128k	0S2
+Math Concepts Series: Grades 3-4	School pkg	6024-369	789									G520-1107	PC,XT,PCjr,AT 128k	0S2
+Math Concepts Series: Grades 5-6	School pkg	6024-417	879									G520-1107	PC,XT,PCjr,AT 128k	0S2
+Math Concepts Series: Grades 5-6		6024-427	195									G520-1107	PC,XT,PCjr,AT 128k	0S2
+Math Concepts Series: Grades 7-8	School pkg	6024-419	879									G520-1107	PC,XT,PCjr,AT 128k	0S2
+Math Concepts Series: Grades 7-8		6024-429	195									G520-1107	PC,XT,PCjr,AT 128k	0S2
+Math Concepts Series: Pre-school		6024-356	150									G520-1107	PC,XT,PCjr,AT 128k	0S2
+Math Concepts Series: Pre-school	School pkg	6024-370	675									G520-1107	PC,XT,PCjr,AT 128k	0S2
+Math Practice: Grades 1-2		6024-353	95									G520-1107	PC,XT,AT,PCjr+color	0S2
+Math Practice: Grades 1-2	School pkg	6024-372	429									G520-1107	PC,XT,AT,PCjr+color	0S2
+Math Practice: Grades 3-4		6024-354	95									G520-1107	PC,XT,AT,PCjr+color	0S2
+Math Practice: Grades 3-4	School pkg	6024-371	429									G520-1107	PC,XT,AT,PCjr+color	0S2
+Math Practice: Grades 5-6	School pkg	6024-421	429									G520-1107	PC,XT,AT,PCjr+color	0S2
+Math Practice: Grades 5-6		6024-431	95									G520-1107	PC,XT,AT,PCjr+color	0S2
+Math Practice: Grades 7-8	School pkg	6024-422	429									G520-1107	PC,XT,AT,PCjr+color	0S2
+Math Practice: Grades 7-8		6024-432	95									G520-1107	PC,XT,AT,PCjr+color	0S2
Matrix Madness		6276-512	20										PC,XT,jr,AT,3270-PC	0SR
+Measurement Process: Distance & Area		6024-470	75									G520-1107	PC,XT,AT,PCjr+color	0S2
Member Services		6276-566	30										PC,XT,jr,AT,3270-PC	0SR
+Memory House		6276-551	20										PC,XT,AT,PCjr	0SR
+Mendelian Genetics: Inheritance		6024-408	65									G520-1107	PC,PCjr,XT,AT+color	0S2
+Mendelian Genetics: Inheritance	SchoolPack	6024-438	295									G520-1107	PC,PCjr,XT,AT+color	0S2
Mine Shaft (Feature 4092)		6024-092	35									G520-3917	PCjr+005 2.1	0S2
Missing Letters		6024-104	50									G520-1107	PC,PCjr,XT,AT,PPC	0S2
Modern Genetics: Chromosomes & Coding	Biolog Ser	6024-345	65									G520-1107	PC,PCjr,XT,AT,PPC	0S2
Modern Genetics: Chromosomes & Coding	School Pkg	6024-395	295									G520-1107	PC,PCjr,XT,AT,PPC	0S2
Moisture in the Atmosphere		6024-124	55									G520-1107	PC,XT,PCjr,PPC+DOS2+	0S2
Monster Math		6024-072	35									G520-3917	PC,PCjr,XT	0S2

Program Title	Short Name	Number	OTC	ILC	MLC	DSO	DSI	DSH	HLP	MHL	Mo	MoreInfo	Environment	TPLS
Morse Code Drills		6276-525	15										PC,XT,jr,AT,PPC	OSR
Mouser (Feature 4087)		6024-087	35									6520-3917	PCjr+DOS 2.1	OSZ
MPSX Including MIP XT/370 Feature		5740-XM3/02	1250		62								3015,3016	OSC
Multimedia Presentation Aid		6276-611	25										PC,XT,jr,AT,3270-PC	OSR
Multiplan (R)		6024-022	250									6520-3917	PC	OSZ
Multiplication Tables		6276-601	25										PrivTutor or 6276602	OSR
+Multipurpose Authoring Language	MPAL	6276-585	100										PC,XT,AT,PCjr,3270PC	OSR
Music 101		6276-600	20										PC,XT,jr,AT,3270-PC	OSR
Object Library Maintenance		6276-543	20										PC,XT,jr,AT,3270-PC	OSR
+Parts of Speech Series: Grades 3-4		6024-333	100									6520-1107	PC,XT,AT,PCjr+color	OSZ
+Parts of Speech Series: Grades 3-4	School pkg	6024-378	450									0520-1107	PC,XT,AT,PCjr+color	OSZ
+Parts of Speech Series: Grades 5-6		6024-334	100									0520-1107	PC,XT,AT,PCjr+color	OSZ
+Parts of Speech Series: Grades 5-6	School pkg	6024-379	450									0520-1107	PC,XT,AT,PCjr+color	OSZ
Pascal Compiler Version 2		6024-128	385									0520-3917	DOS2+	OSZ
Pascal/VS XT/370		5796-PNQ/01	554		11								3025,3028	OSC
Passive Transport, Diffusion and Osmosis	Biolog Ser	6024-320	65									0520-1107	PC,PCjr,XT,AT,PPC	OSZ
Passive Transport, Diffusion and Osmosis	School Pkg	6024-389	295									0520-1107	PC,PCjr,XT,AT,PPC	OSZ
Pathology: Diseases and Defenses	Biolog Ser	6024-343	65									0520-1107	PC,PCjr,XT,AT,PPC	OSZ
Pathology: Diseases and Defenses	School Pkg	6024-390	295									0520-1107	PC,PCjr,XT,AT,PPC	OSZ
Payroll by BPI (R)		6024-028	425									0520-3917	PC	OSZ
PC Bond Release 2		5664-298	2000		135							GH24-5089	VM+VM Bond	2SE
PC CheckBook		6276-617	20										PC,XT,jr,AT,3270-PC	OSR
PC Interactive Executive	PC/IX	1753-369	989									GH20-6247	PC,XT,XT/370,AT+10MB	OSE
PC Interactive Executive Upgrade to 1.1	PC/IX	6317-009	40									GH20-6247	PC/IX 1.0 6428163	OSE
-PC LAN Upgrade from PC Network 6024195	LAN	6280-084	65									6227-6002	PC Network	OSZ
+PC Local Area Network Program 1.1	LAN	6280-083	125									6227-6002	PC,XT,AT	OSZ
PC Morse Code		6276-612	20										PC,XT,jr,AT	OSR
+PC Network Analysis Program		6489-762	1295										PCNetwork+EZ-VU Runt	OSZ
+PC Network Remote Control (single copy)		6276-586	25										PC LAN or NETBIOS	OSR
+PC Network Remote Control (Six-pack)		6276-562	99										NETBIOS+PC,XT,AT	OSR
PC Palette		6276-537	40										PC,XT,jr,AT,3270-PC	OSR
+PC Palette Utility		6276-640	20										PC Palette 6276537	OSR
PC Picture Graphics		6276-508	30										PC,XT,jr,AT,3270-PC	OSR
PC Print		6276-613	25										PC,XT,jr,AT,PPC	OSR
PC Support/36	Token-Ring	5727-H51	700		48	615						6580-0454	5727-1C1+S/36+AT	T11M
PC Support/36	Token-Ring	5727-H56	280			210						6580-0570	5727-1C6+5364	T01M
PC Support/36 Token-Ring Workstatn Feat		5727-H51/01	1500		100	1320						6580-0454	6248	T11M
+PC Support/36 Token-Ring Workstatn Feat		5727-H56/01	600			450						6580-0570	6181	T01M
PC Support/38 1.7.0		5714-PC1	995			876							S/38+PC,XT,AT,PPC	1SA
PC to System/36 Transfer Facility		5799-BRL	950										Replaced by 5727-H51	OSZ
PC to System/38 Transfer Facility		5799-BTZ	950										PC+S/38	OSZ
+PC/Classroom LAN Administration Syst 1.0	PC/CLASS	6024-159	995										Advanced NetWare 2.0	01Z
+PC/HOST File Transfer and 3270 Emulation		6476-052	200									0520-6037	MVS,VM,CICS	OSZ
PCMATCH		6276-603	50										PC,XT,jr,AT,PPC	OSR
PCWriter		6024-179	215									6520-1107	PC,XT,PPC	OSZ
Pers DS Extended Support Annual Subscrip		6316-971/01	125								12.		See Program Descriptn.	OSG
Pers DS Extended Support Annual Subscrip		6316-972/01	125								12.		See Program Descriptn.	OSG
Pers DS Extended Support Annual Subscrip		6410-936/01	125								12.		See Program Descriptn	OSG
Pers DS Plans+ Upgrade Kit (from Plans)		6410-939/01	150								.		.Plans	OSG
Personal Communications Mgr Feature 4100		6024-100	109									6520-3917	PC,PCjr,XT	OSZ

Program Title	Short Name	Number	OTC	ILC	MLC	DSO	DSI	DSM	HLP	MML	Mo	MoreInfo	Environment	TPLS
+Personal Computer Monitor	PECOMON	6467-045	325									.G320-0838	PC+3278,9 Emul adapt	05M
Personal Computer Organizer		6317-027	165									.G320-0650	All ex jr+EZ-VU Runt	05G
+Personal Computer Terminal Support 1.0		5732-019	100									SX34-0173	System/88+PC,XT	15M
Personal Correspondence Manager		6276-615	40										PC,XT,jr,AT,3270-PC	05R
Personal Decision Series - Adviser		6410-941	65										Data Edition	05G
Personal Decision Series - Appoint Clndr		6410-946	75										Data Edition	05X
Personal Decision Series - Asset Catalog		6410-943	75										Data Edition	05X
Personal Decision Series - Attachment/VM		5664-290	17600		800							.GH30-9028	VM+ISPF+6316971	15E
Personal Decision Series - Attachment/36		5727-BRK	1155									.GH30-0757	S/36+6316972	15E
Personal Decision Series - Attachment/36		6316-972	165									.GH30-0257	PC,PPC,XT+Data Editn	05G
Personal Decision Series - Attachmt/MVS		5665-336	22000									.GH30-9028	VTAM+NCP+ISPF+PC,XT	15E
-Personal Decision Series - Attachmt/370		6316-971	219									.GH30-0760	Upgrade to 6467046	05G
Personal Decision Series - Client Time		6410-945	75										Data Edition	05X
Personal Decision Series - Data Edition		6410-936	275									.GH30-9012	All ex PCjr+DOS2 up	05G
+Personal Decision Series - Data Edition		6466-983	275									.GH30-9012	3.5" drive	05G
Personal Decision Series - Data Training		6410-947	79										Data Edition	05G
+Personal Decision Series - Graphs Editn		6403-621	225									.GH30-9012	3.5" drive	05G
Personal Decision Series - Graphs Editn		6410-938	225										Data Edition+color	05G
Personal Decision Series - Mailing Label		6410-942	75										Data Edition	05X
Personal Decision Series - Plans Edition		6410-939	165										Data Edition	05G
+Personal Decision Series - Plans Edition		6466-986	165									.GH30-9012	3.5" drive	05G
Personal Decision Series - Plans+ Editn		6410-972	335										Data Edition	05G
+Personal Decision Series - Plans+ Editn		6466-987	335									.GH30-9012	3.5" drive	05G
Personal Decision Series - Prospect Trac		6410-944	75										Data Edition	05X
+Personal Decision Series - Reports+ Edit		6466-984	165									.GH30-9012	3.5" drive	05G
Personal Decision Series - Reports+ Edtn		6410-937	165										Data Edition	05G
+Personal Decision Series - Reports+ Trng		6410-948	95										Reports+	05G
Personal Decision Series - Words Edition		6410-940	165										Data Edition	05G
+Personal Decision Series - Words Edition		6466-985	165									.GH30-9012	3.5" drive	05G
+Personal Decision Series, Upg to Plans+		6317-004	170										Plans	05Z
Personal Editor		6024-051	109									G520-3917	PC,PCjr	05Z
Personal Editor II		6276-560	50										PC,XT,jr,AT,PPC	05R
Personal Print Control		6276-573	30										PC,XT,jr,AT,3270-PC	05R
Personal Scientific Calculator		6276-513	25										PC,XT,jr,AT,3270-PC	05R
+Personal Services/PC Upgrade to 1.2		6476-053	35										6403826	05M
-Personal Services/PC 1.04		6403-826	275										Upgrade to 6476053	05Z
+Personal Services/PC 1.2		6476-054	275										PC,XT,AT,3270-PC+10M	05M
+Personal Servs/PC 1.04, Upg from 6317013		6403-827	35										PC,XT,AT,3270PC,PPC	05G
Personal Telephone Manager		6429-190	70									G320-9445	PC,XT,AT,3270-PC/AT	05Z
Personal Telephone Mgr/Voice Comm Option		1642-004	70										PC,XT,AT+VoiceCommun	05G
Phone Directory and Print Buffer On-Line		6276-523	35										PC,XT,jr,AT,PPC	05R
Phone Directory On-Line		6276-522	25										PC,XT,jr,AT,PPC	05R
+Picture Draw		6276-628	25										PC,XT,jr,AT+color	05R
+Picture Draw		6276-635	25										PC,XT,PCjr,AT+color	05R
PL/I Optimizing Compiler& Library XT/370		5734-PL3/01	1008		22								3000,3005	05C
PL/I Resident Library XT/370		5734-LM4/01	192		4								3002,3007	05C
PL/I Transient Library XT/370		5734-LM5/01	192		4								3001,3006	05C
+Plan-A-Year		6276-588	20										PC,XT,AT,PCjr	05R
Planning Assistant		6024-148	165									.G520-1107	PC,XT,PCjr,PPC	05Z
Planning Assistant Solutions		6024-135	99									.G520-1107	PC,PCjr,XT,AT,PPC	05Z

Program Title	Short Name	Number	OTC	ILC	MLC	DSO	DSI	DSM	MLP	MHL	Mo	MoreInfo	Environment	TPLS
Plants: Growth & Specialization	Biolog Ser	6024-321	65									6520-1107	PC,PCjr,XT,AT,PPC	0SZ
Plants: Growth & Specialization	School Pkg	6024-392	295									6520-1107	PC,PCjr,XT,AT,PPC	0SZ
Plotting System		6024-204	245									6520-1107	PC,PPC,XT,AT+DOS2.1+	0SZ
+Pollination & Fert: Seeds,Fruits,Embryos		6024-415	65									6520-1107	PC,XT,AT,PCjr+color	0SZ
+Pollination & Fert: Seeds,Fruits,Embryos	School pkg	6024-445	295									6520-1107	PC,XT,AT,PCjr+color	0SZ
Portfolio Management System		6276-558	100										PC,XT,jr,AT,3270-PC	0SR
Preparing for Geometry and Algebra	Priv Tutor	6024-307	55									6520-1107	PC,PCjr,XT,AT,PPC	0SZ
Primary Editor		6024-294	60									6520-1107	PC,PCjr,XT,AT,PPC	0SZ
Print Buffer On-Line		6276-521	20										PC,XT,jr,AT,3270-PC	0SR
Print Screen Utility		6024-186	35									6520-3917	PC,XT+DOS2	0SZ
PrintDM		6276-604	20										PC,XT,jr,AT,PPC	0SR
Private Tutor Presenter 1.1		6276-602	20										PC,XT,jr,AT,3270-PC	0SR
+Private Tutor Series - Spell Facts		6276-627	20										6024113 or 6276602	0SR
Private Tutor Version 1		6024-052	55									6520-3917	PC	0SZ
Private Tutor Version 2		6024-113	55									6520-1107	PC,XT,PCjr,PPC+DOS2+	0SZ
Professional Debug Facility		6024-143	165									6520-1107	PC,XT,PPC	0SZ
Professional Editor		6024-048	139									6520-3917	PC,PCjr	0SZ
PROFS Personal Computer Connection to VM PROFS/PC2		6410-984	219									6320-0652	PROFS+ISPF/PC+DOS2+	0SH
Programmed Eval of Contract Option Strat		6276-614	250										PC,XT,jr,AT,3270-PC	0SR
Programmed Inquiry Learning or Teaching PILOT		6316-973	219									6520-1107	PC,XT,AT,PPC,PCjr	0SH
Project Planning and Scheduling		6276-500	150										PC,XT,jr,AT,3270-PC	0SR
Punctuation Skills		6024-083	55									6520-1107	Private Tutor 2.00	0SZ
+Ratio Reasoning: Crystals and Speed		6024-473	75										128k+color	0SG
Reading Comprehension Skills (Priv Tutor		6024-325	55									6520-1107	PC,PCjr,XT,AT,PPC	0SZ
+Reading for Information: Grades 3-4		6024-358	125									6520-1107	PC,XT,AT,PCjr+color	0SZ
+Reading for Information: Grades 3-4	School pkg	6024-386	565									6520-1107	PC,XT,AT,PCjr+color	0SZ
+Reading for Information: Grades 5-6		6024-359	150									6520-1107	PC,XT,AT,PCjr+color	0SZ
+Reading for Information: Grades 5-6	School pkg	6024-387	675									6520-1107	PC,XT,AT,PCjr+color	0SZ
+Reading for Information: Grades 7-8		6024-360	150									6520-1107	PC,XT,AT,PCjr+color	0SZ
+Reading for Information: Grades 7-8	School pkg	6024-366	750150									6520-1107	PC,XT,AT,PCjr+color	0SZ
+Reading for Meaning Series: Grade 2		6024-330	150									6520-1107	PC,XT,AT,PCjr+color	0SZ
+Reading for Meaning Series: Grade 2	School pkg	6024-384	675									6520-1107	PC,XT,AT,PCjr+color	0SZ
+Reading for Meaning Series: Grades 3-4		6024-336	150									6520-1107	PC,XT,AT,PCjr+color	0SZ
+Reading for Meaning Series: Grades 3-4	School pkg	6024-374	675									6520-1107	PC,XT,AT,PCjr+color	0SZ
+Reading for Meaning Series: Grades 5-6		6024-337	150									6520-1107	PC,XT,AT,PCjr+color	0SZ
+Reading for Meaning Series: Grades 5-6	School pkg	6024-375	675									6520-1107	PC,XT,AT,PCjr+color	0SZ
+Reading for Meaning Series: Grades 7-8		6024-338	150									6520-1107	PC,XT,AT,PCjr+color	0SZ
+Reading for Meaning Series: Grades 7-8	School pkg	6024-364	675									6520-1107	PC,XT,AT,PCjr+color	0SZ
RealEstate Investment Package		6276-597	20										PC,XT,jr,AT,PPC	0SR
Realtime Programming System Version 7.2		5719-PC7	7000			500						GC34-0615	Series/1	1SM
Realtime Programming System Version 7.2		5719-PJ7	2800									GC34-0614	Series/1-PC (4950)	1SM
+Regulation & Homeostasis		6024-410	65									6520-1107	PC,PCjr,XT,AT+color	0SZ
+Regulation & Homeostasis	SchoolPack	6024-440	295									6520-1107	PC,PCjr,XT,AT+color	0SZ
Reporting Assistant		6024-146	145									6320-3917	PC,XT,PCjr,PPC	0SZ
Response Time Estimator (Feature 9231)		6316-968	275									6320-6334	PC,PCjr,XT,3270-PC	0SH
RJE File Transfer - DPPX to PC 3270 Emu		5799-BRQ	1010									GC23-0630	6024-036	0SE
Rocky's Boots		6024-099	50									6520-1107	PC,XT,PCjr,AT+color	0SZ
RS/1 tm		6317-003	2159									63209-240	PC+10MB,3270-PC,AT	0SG
Scattergrams		6276-553	20										PC,XT,jr,AT,PPC	0SR
+Scientific Models: Batteries&Bulbs&Famil		6024-472	75										128k+color	0SG

Program Title	Short Name	Number	OTC	ILC	MLC	DSO	DSI	DSM	MLP	MML	Mo	MoreInfo	Environment	TPLS
ScubaVenture (Feature 4088)		6024-088	35									G520-3917	PCjr+DOS 2.1	OSZ
Select-A-Font		6276-514	20										PC,XT,jr,AT,3270-PC	OSR
Series/1 Input/Output Executive Ver 1.1		5719-EM1	650									SC34-0726	EDX or RPS+S/1-XT/AT	1SM
Series/1-PC Connect		5719-CN1	400									G520-0102	RPS and DOS	1SL
Short Hand		6276-572	15										PC,XT,jr,AT,3270-PC	OSR
+Side-Swipe		6276-563	15										PC,XT,AT,PCjr,3270PC	OSR
SlideWrite		6317-034	225									G520-1107	All except PCjr	OSZ
+SOLITAIRE		6276-565	15										PC,XT,AT,3270AT	OSR
Solving Math Word Problems (Priv Tutor)		6024-308	55									G520-1107	PC,PCjr,XT,AT,PPC	OSZ
Sort Version 1		6024-138	189									G520-3917	PC	OSZ
+Source Maintenance System		6276-568	25										PC,XT,AT,PCjr	OSR
+Special Effects with Slides		6276-631	25										PC,XT,PCjr,AT+color	OSR
+Spelling Series: Grades 1-2		6024-347	110									G520-1107	PC,XT,AT,PCjr+color	OSZ
+Spelling Series: Grades 1-2	School pkg	6024-380	495									G520-1107	PC,XT,AT,PCjr+color	OSZ
+Spelling Series: Grades 3-4		6024-348	110									G520-1107	PC,XT,AT,PCjr+color	OSZ
+Spelling Series: Grades 3-4	School pkg	6024-381	495									G520-1107	PC,XT,AT,PCjr+color	OSZ
+Spelling Series: Grades 5-6		6024-349	110									G520-1107	PC,XT,AT,PCjr+color	OSZ
+Spelling Series: Grades 5-6	School pkg	6024-382	495									G520-1107	PC,XT,AT,PCjr+color	OSZ
Spelling Skills		6024-086	55									G520-1107	Private Tutor 2.00	OSZ
Sports Trivia from Billiards to Baseball		6276-608	20										PC,XT,jr,AT,3270-PC	OSR
STAIRS XT/370		5664-189/01	660		30								3003,3004	OSZ
StarProof Bridge		6276-536	15										PC,XT,jr,AT,3270-PC	OSR
STATLIB 1		6276-501	150										PC,XT,jr,AT+APL	OSR
STATLIB 2		6276-539	150										PC,XT,jr,AT+APL	OSR
Storage & Information Retrieval System	STAIRS	5664-189		1650	575		1235	375				GH12-5147	VM+ISPF,XT/370	1SM
Storyboard		6316-998	275									.0580-2001	PC,PCjr,PPC,AT,XT370	0SG
Structured Assembler Translator		6276-550	35										PC,XT,jr,AT,3270-PC	OSR
Structured BASIC Facility		6276-618	55										PC,XT,jr,AT,PPC	OSR
SuperC		6276-575	20										PC,XT,jr,AT,3270-PC	OSR
Surface Water - Earth Science Series		6024-123	55									G520-1107	PC,XT,PCjr,PPC+DOS2+	OSZ
+System/36 Local Area Network Communicatn Token-Ring		5727-1C1	925		75	8143							S/36+AT in a T-R net	1SA
+System/36 PC Local Area Network Communic Token-Ring		5727-1C6	695			521							5364+AT in a TRN	1SM
+Taxonomy: Classification & Organization		6024-616	65									G520-1107	PC,XT,AT,PCjr+color	OSZ
+Taxonomy: Classification & Organization	School pkg	6024-446	296									G520-1107	PC,XT,AT,PCjr+color	OSZ
Telephone Access to Office Systems		6467-039	250									GJ320-9154	PROFS,PS/36,PS/38	0SE
The Combined Adventures with Numbers		6276-609	40										PC,XT,jr,PPC,AT	OSR
+The Environment: Cycles & Interactions		6024-613	65									G520-1107	PC,XT,AT,PCjr+color	OSZ
+The Environment: Cycles & Interactions	School pkg	6024-443	295									G520-1107	PC,XT,AT,PCjr+color	OSZ
The Information Facility XT/370	TIF	5798-DLK/01	2400		53								3038,3039	OSZ
The World's Greatest Baseball Game tm		6276-620	25										PC,XT,jr,PPC	OSR
+Theory Formation: Reflections & Patterns		6024-471	75									G520-1107	PC,XT,AT,PCjr+color	OSZ
These United States		6276-509	20										PC,XT,jr,AT,3270-PC	OSR
+Token-Ring Network Bridge Install Kit		6476-041	3285									GA27-3677	2 TR Nets+AT,AT-Ind	OSM
+Token-Ring Network Bridge Program		6403-831	1495									GA27-3677	2 TR Nets+AT,AT-Ind	OSM
+Token-Ring Network Manager		6476-046	1495									GA27-3677	PC,XT,AT+TR Net adpt	OSM
+Token-Ring Network NETB10S		6467-037	35										PC,PPC,XT,AT+adapter	OSH
+Token-Ring Network/PC Interconnect		6467-036	495										Token-Ring NETB10S	05H
+Token-Ring/PC Network Interconnect Progr		6476-036	495									GA27-3677	PC,XT,AT+Net adaptrs	OSM
-Topview Upgrade from 1.0		6024-455	87										6024131	0SG
-Topview Prog's Toolkit 1.1, Upg from 1.0		6024-456	132										6024133	0SG

Program Title	Short Name	Number	OTC	ILC	MLC	DSO	DSI	DSH	MLP	MML	Mo	MoreInfo	Environment	TPLS
+Topview Programmer's Toolkit 1.1		6024-454	429										Topview 1.1	05G
+Topview 1.1		6024-453	175										PC,XT,AT,PPC	05G
+Touch Typing for Beginners		6024-339	85									G520-1107	PC,XT,AT,PCjr+color	05Z
+Touch Typing for Beginners	School pkg	6024-363	385									G520-1107	PC,XT,AT,PCjr+color	05Z
Trivia 102		6276-599	20										PC,XT, jr,AT,3270-PC	05R
Trivia 103 (Challenges for Young People)		6276-610	20										PC,XT, jr,AT,3270-PC	05R
TSO Host Server for PC XT/370 (VM/PC)	TSOSERV	5798-DTL	2420									G520-3917	MV5+VTAM	13H
Turtle Power (Feature 4109)		6024-109	55										PC,PCjr,XT	05Z
Turtle Power Activity Book		6024-079	15										G520-1107 Turtle Power PC,AT	05Z
Turtle Power Thinker's Guide		6024-167	11										G520-1107 Turtle Power	05Z
Typing Tutor (Diskette Version)		6024-013	29										G520-3917 PC	05Z
+Upg XENIX or PCIX Devt Sys to 59X9939		59X9-934	299										SoftDev 1.0 or 1.1	05Z
+Upg XENIX or PCIX Text 1.0 to 59X9941		59X9-935	99										Text Form 1.0 or 1.1	05Z
Utilities I		6276-517	20										PC,XT, jr,AT,3270-PC	05R
Utilities II		6276-520	20										PC,XT, jr,AT,3270-PC	05R
Utilities III		6276-574	20										PC,XT, jr,AT,3270-PC	05R
Videotex-Graphic Artist facility	VTXGRAF	6317-012	2500									G320-9394	Videotex (on PC)	05H
Videotex/PC (Feature 9230)		6316-967	239										G520-3917 PCjr	05H
Videotex/PC Ext Sup Updt B1.0 to B1.1	Videotex	6265-471	30										G520-3917 PC,XT,AT+ACA+modem	05H
Videotex/PC Updt B1.0 to B1.1	Videotex	6265-472	55										G520-3917 Non-subscriber	05H
Videotex/PC Version B1.1 (Feature 9229)	Videotex	6410-985	275										G520-3917 PC,XT,AT+ACA+modem	05H
+Videotex/370		5798-DTH	75000			4000							G320-9388 CICS/MWS	25H
Virtual Device Interface Drivers		6168-460	nc										S126-0094 Toolkit (6024196)	N05Z
Virtual Machine / Personal Computer 1.1	VM/PC	6024-175	1150										G520-1095 XT/370,AT/370	05H
+Virtual Machine / Personal Computer 1.2	VM/PC	6467-040	1150										SC24-5254 5664-319+AT/370	05M
VM Bond Release 1		6317-007	125										GH24-5089 PC, XT,XT/370+PCBond	05H
+VM Bond Release 2		6467-022	250										GH24-5089 PC,XT,AT,XT/370,AT/3	05M
+VM Bond Tech Coor Support Release 2		6467-043	400										GH24-5089 VM Bond Release 2	05M
+VM Bond Upgrade Release 1 to 2		6467-044	175										GH24-5089 VM Bond Release 1	05M
VM/PC Bond Technical Coordinator SuptPkg		6316-143	275										GH24-5089 PC_Bond+PC,XT,XT/370	05H
+VM/PC Host Server		5644-319	2000			135							VM+VM/PC on AT/370	15X
+VM/PC Upgrade from 1.1 to 2		6467-042	150										SC24-5254 Release 1.1	05M
Vocabulary Building Skills (Priv Tutor)		6024-326	55										G520-1107 PC,PCjr,XT,AT,PPC	05Z
+Vocabulary Series: Grades 3-4		6024-350	110										G520-1107 PC,XT,AT,PCjr+color	05Z
+Vocabulary Series: Grades 3-4	School pkg	6024-376	495										G520-1107 PC,XT,AT,PCjr+color	05Z
+Vocabulary Series: Grades 5-6		6024-351	110										G520-1107 PC,XT,AT,PCjr+color	05Z
+Vocabulary Series: Grades 5-6	School pkg	6024-377	495										G520-1107 PC,XT,AT,PCjr+color	05Z
+Vocabulary Series: Grades 7-8	School pkg	6024-352	495										G520-1107 PC,XT,AT,PCjr+color	05Z
+Voice Communication Operating Subsystem		6280-708	65										PC,XT,AT	05Z
Voice Communications API Reference		6280-743	149										PC,XT,AT+VoiceComOpt	05Z
Voice-Activated Keyboard Utility		6280-742	99										PC,XT,AT+VoiceComOpt	05Z
Voice/Phone Assistant		6280-741	149										PC,XT,AT+VoiceComOpt	05Z
Volcanos (Earth Science Series)		6024-323	55										G520-1107 PC,PCjr,XT,AT,PPC	05Z
VS APL for XT/370, AT/370		5748-AP1/01	735			49							3011,3012	05Z
Waterloo and MATCOM Languages		5793-AAP	4950										GB30-2339 D05	05F
Waterloo HOSTCM		5793-AAN/03	330										2003	05F
Waterloo PC Network Channel Attached		5793-AAN/01	nc										GB30-2411 2001	N05F
Waterloo PC Network Standalone Server		5793-AAN	1650										GB30-2411 D05+RPS on Series/1	05F
Waterloo PC Network VM Server		5793-AAN/02	1650										GB30-2411 2002	05F
WESTLAN (R) Communications Session Mar		6428-162	350										G520-3917 PC	05X



Program Title	Short Name	Number	OTC	ILC	MLC	DSO	DSI	DSM	MLP	MML	Mo	MoreInfo	Environment	TPLS	
Word Knowledge Skills (Private Tutor)		6024-327	55									G520-1107	PC,PCjr,XT,AT,PPC	05Z	
Word Proof		6024-071	65									G520-3917	PC,PCjr,XT	05Z	
Word Proof II		6276-564	40										PC,XT,jr,AT,PPC	05R	
Word Seeking		6276-534	20										PC,XT,jr,AT	05R	
Writing Assistant		6024-144	165									G520-3917	PC,XT,PCjr,PPC	05Z	
Writing Private Tutor Courses for the PC		6024-078	14									G520-1107	PC,XT,AT,PCjr,PPC	05Z	
Writing to Read		6360-700	725									G520-1107	PCjr+Speech attachmt	05Z	
+XENIX tm Extensions 1.0		59X9-945	475										XENIX 2.0	05Z	
+XENIX tm Software Development System 2.0		59X9-939	599									SV21-8078	XENIX 2.0	05Z	
+XENIX tm Text Formatting System 2.0		59X9-941	199									SV21-8080	XENIX 2.0 on AT	05Z	
+XENIX tm 2.0		59X9-932	599									SV21-8074	AT+20MB	05Z	
+XENIX 2.0, Upg from PCIX/XENIX 1.0, 1.1		59X9-935	299										XENIX/PCIX 1.0, 1.1	05Z	
Zuran		6276-515	20										PC,XT,jr,PPC	05R	
+1985 Tex Template		6276-561	20										PC,XT,AT	05R	
3-K Trivia		6276-516	20										PC,XT,jr,AT	05R	
3101 Emulation Program		6024-042	149									G520-3917	PC	05Z	
3270 Binary Synchronous Emulation		6024-037	769									G520-3917	PC	05Z	
-3270 Emul Upgrade from 8665780		59X9-904/01	75										3278/9 Emul Adapter	05Z	
3270 Emulation & SNA RJE Support		6024-036	769									G520-3917	PC	05Z	
+3270 Emulation Program Entry Level		59X9-904	185										3278/9 Emul Adapter	05Z	
-3270 Emulation Program Version 2.0		59X9-951	425										SC23-0892	PC,XT,AT,LAN	05Z
+3270 Emulation Upgrade from 59X9904		59X9-951/02	240										SC23-0892	9953	05Z
-3270 Emulation Upgrade from 6322526		59X9-951/03	75										SC23-0892	9954	05Z
-3270 Emulation Upgrade from 8665780		59X9-951/01	190										SC23-0892	9952	05Z
+3270-PC AT/GX 3277GA Emulator		6476-047	1000										3270-PC AT/GX	05H	
+3270-PC Control Program Version 3.0		59X9-968	450									GA23-0179	3270-PC,3270-AT	05M	
3270-PC Control Program Ver 2.1		6217-355	329									GA23-0232	D05 2.0, 2.1 or 3.0	05H	
3270-PC Control Program Version 2		6423-236	329									GA23-0232	D05 2.1 or 3.0	05M	
3270-PC Control Program 1.2.2		1837-434	329									G520-1107	D05 2 or 3	05M	
+3270-PC CP 3.0, Workstation Upgrade Pkg.		59X9-968/01	200									GA23-0179	Versions 1 or 2	05M	
+3270-PC Emulation Program Version 3.0	Token-Ring	59X9-969	475										PC,XT,AT	05Z	
+3270-PC Emulation Upgrade from Entry Lev	Token-Ring	59X9-980	240										59X9904	05Z	
-3270-PC Emulation Upgrade from SNA 3270	Token-Ring	59X9-981	75										6322526	05Z	
-3270-PC Emulation Upgrade from Ver 2.0	Token-Ring	59X9-995	75										59X9951	05Z	
3270-PC File Transfer Program		5664-281	600									G520-3917	VM+3270-PC CP	15E	
3270-PC File Transfer Program		5665-311	600									G520-3917	1837-434	15E	
3270-PC Graphics Control Program (1507)		1887-697	450										3270-PC/G or GX	05H	
+3270-PC HighLevel Applic Prog Interf 3.0 HLLAPI		59X9-959	195										3270-PC,3270-AT	05E	
+3270-PC HLLAPI Upgrade from Versions 1.2 HLLAPI		59X9-959/01	95										3270-PC,3270-AT	05E	
3270-PC Upgrade Kit - from 1.2		6217-355/01	60										3015	05H	
3278/79 Emulation Control Program		6024-134	235									G520-3917	Personal Computer,XT	05E	
3812 Fonts - Pi and Specials		5669-163	480										3812 Font Mgt System	05H	
3812 Fonts - Sonoran Sans Serif		5669-162	640										3812 Font Mgt System	05H	
3812 Fonts - Sonoran Serif		5669-161	640										3812 Font Mgt System	05H	
3812 Pageprinter Driver		6466-981	49									G320-0810	PC,XT,AT+256k	05E	
3812 Pageprinter Font Management System		6466-982	375									G320-0817	XT,AT+10MB	05H	
4700 PC Application Services		6934-406	300									G221-2493	PC,XT	05H	
5218 Printer Attachment Convenience Pac		6113-651	220									G570-2063	PC,XT	05Z	
5218 Printer Driver		6293-576	175									G570-2063	PC,XT,3270-PC,PPC	05Z	
5218 Printer Sharing (Feature 4471)		6113-650	625									G570-2063	PC,XT	05Z	

<u>Program Title</u>	<u>Short Name</u>	<u>Number</u>	<u>OTC</u>	<u>ILC</u>	<u>MLC</u>	<u>DSO</u>	<u>PSI</u>	<u>DSM</u>	<u>MLP</u>	<u>MML</u>	<u>Me</u>	<u>MoreInfo</u>	<u>Environment</u>	<u>TPLS</u>
5250 Emulation Convenience Kit		6092-656	745									G520-1107	PC+S/34,38	05X
5250 Emulation Prog for PC or XT		6092-651	164									G520-3917	PC,XT+S/34,36,38	15X
+5250 Enhanced Emulation Program 2.1		6386-354	160									G570-2221	PC,XT,AT,PPC	05Z
-5250 Enhanced Emulation Upgrade to 2.1		6386-352	50									G570-2221	PC,XT,AT,PPC	05Z
+5250 Enhanced Emulation 2.1 Convence Kit		55X3-364	845									G570-2221	PC,XT,AT,PPC	05Z
5250 Remote Emulation Program		6403-685	195									G520-1107	PC,XT,PPC,AT+S/36,38	05Z
5520 Attach Kit V3 (Feat 2896) Incl 289		6403-724	875									G520-3917	All except PCjr	05C
5520 Attach Version 3 (Feature 2895)		6403-725	384									G520-3917	All except PCjr	05C
5520 Installation Convenience Kit		6109-558/01	729										2882	05E
5520 PC Attach Installation Kit		7033-703/01	893									G570-2026	2890	05Z
5520 Personal Computer Attachment Ver 1		7033-703	164									G570-2026	PC	05Z
5520 Personal Computer Attachment Ver 2		6109-558	284									G520-2045	PC, XT	05E



Program Title	Short Name	Number	OTC	ILC	MLC	DSO	DSI	DSH	MLP	MML	Mo	MoreInfo	Environment	TPLS
+!BARSOFT (Manual)		5793-AGN/01	75										GB30-2027 Industrial PC	05Y
+!BARSOFT tm		5793-AGN	895										GB30-2027 Industrial PC	05Y
Advanced Netware tm / C		6404-010	1595										GB30-2037 PC,XT,AT	05Y
Advanced Netware tm / PCN		6404-009	1595										GB30-2037 PC,XT,AT	05Y
+Advanced NetWare tm/86 2.0a		6476-230	1595										GB30-2037 PC,XT,AT,3270-PC,jr	05Y
+Allen-B PLC-2 Ladder Up/Downline Loading		5793-ACX/01	350										Industrial PC	05Y
+Allen-Bradley PLC-2 Draftec		5793-ACX/03	950										Industrial PC	05Y
+Allen-Bradley PLC-2 Ladder Logic Documen		5793-ACX	2500										Industrial PC	05Y
+Allen-Bradley PLC-2 Offline Programming		5793-AHH	1250										Industrial PC	05Y
+Allen-Bradley PLC-2 Wiring Diag Generatr		5793-ACX/02	500										Industrial PC	05Y
+Allen-Bradley PLC-3 Draftec		5793-AGC/02	950										Industrial PC	05Y
+Allen-Bradley PLC-3 Ladder Logic Documen		5793-AGC	2500										Industrial PC	05Y
+Allen-Bradley PLC-3 Wiring Diag Generatr		5793-AGC/01	500										Industrial PC	05Y
+Allen-Bradley 1774PLC Ladder Logic Docum		5793-AHC	1250										Industrial PC	05Y
Andrew Tobias' Managing Your Money		6187-279	199									GB30-2037	PC,XT,AT,PCjr	05Y
Assessing Personal Management Skills	Demo	6871-527	88										PC	05Y
ATI (R) Training for VisiCalc (R)		6071-282	75									GB30-2037	PC	05Y
BL Accounting Kit		6187-293	2995										PC	05Y
BPI (R) Accounts Payable		6187-163	595										PC	05Y
BPI (R) Accounts Payable	Demo	6871-210	50										PC	05Y
BPI (R) Accounts Receivable		6187-164	595										PC	05Y
BPI (R) Accounts Receivable	Demo	6187-211	50										PC	05Y
BPI (R) General Accounting		6187-165	595										PC	05Y
BPI (R) General Accounting	Demo	6187-212	50										PC	05Y
BPI (R) Information Management		6187-166	425										PC	05Y
BPI (R) Information Management	Demo	6187-213	50										PC	05Y
BPI (R) Inventory Control		6187-167	795										PC	05Y
BPI (R) Inventory Control	Demo	6187-214	50										PC	05Y
BPI (R) Job Cost		6187-168	795										PC	05Y
BPI (R) Job Cost	Demo	6187-215	50										PC	05Y
BPI (R) Payroll		6187-169	595										PC	05Y
BPI (R) Payroll	Demo	6187-216	50										PC	05Y
BPI (R) Upgrade Kit 195		6187-260	195										PC	05Y
BPI (R) Upgrade Kit 195		6187-261	295										PC	05Y
BPI Self Training Series - Accounts Paya		6187-256	70										PC	05Y
BPI Self Training Series - Accounts Rec		6187-257	70										PC	05Y
BPI Self Training Series - General Acctg		6187-258	70										PC	05Y
BPS Business Graphics tm		6871-470	350									GB30-2037	PC,XT	05Y
BPS Graphics tm (Feature 9079)	Demo	6871-321	100										PC	05Y
Business Analyzer		6187-294	395										PC	05Y
C (programming language compiler)		6871-466	350									GB30-2037	PC,XT,3270-PC	05Y
+CADAM (R) DRAWING Viewing on PC		5796-TBQ	750									G320-0898	5796-TBP+EGA+8087	05Y
CAMM Allen-Bradley Controller Offline		5793-AEY/05	500										6509	05Y
CAMM Allen-Bradley Controller Online		5793-AEY/11	1750									GB30-2037	6513	05Y
CAMM Analogic Controller Online		5793-AEY/12	1750									GB30-2037	6514	05Y
CAMM Analogic tm Controller Offline		5793-AEY/06	500										6510	05Y
CAMM DSE Analytical Mod, Enhanced Graphi		5793-AEY/02	950									GB30-2037	6506	05Y
CAMM DSE Analytical Mod, Std Graphics		5793-AEY/01	500									GB30-2037	6505	05Y
CAMM General Electric Controller Online		5793-AEY/13	1750									GB30-2037	6515	05Y
CAMM General Electric tm Contlr Offline		5793-AEY/07	500										6511	05Y

Program Title	Short Name	Number	OTC	ILC	MLC	DSO	DSI	DSM	MLP	MML	Me	CoreInfo	Environment	TPLS
CAMM Modicon Controller Online		5793-AEY/14	1750									GB30-2037	6527	05Y
CAMM Modicon tm Controller Offline		5793-AEY/08	500										6525	05Y
CAMM TIWAY Controller Online		5793-AEY/15	1750									GB30-2037	6528	05Y
CAMM TIWAY tm Controller Offline		5793-AEY/09	500										6526	05Y
CAMM tm System Kit		5793-AEY	200									GB30-2037	5531, 7531, 7532	05Y
CAMM Turnbull Controller Offline		5793-AEY/10	500										6512	05Y
CAMM Turnbull Controller Online		5793-AEY/16	1750									GB30-2037	6516	05Y
CAMMGraph Build/Display Enhanced Graphi		5793-AEY/03	4600									GB30-2037	6507	05Y
CAMMGraph Display Enhanced Graphics		5793-AEY/04	2600									GB30-2037	6508	05Y
CBASIC Compiler tm		6871-343	600									GB30-2037	PC, XT, 3270-PC	05Y
Chart-Master		6871-432	375									GB30-2037	PC, XT, 3270-PC	05Y
Client & Lawyer Financial System	Manac	6187-248	975									GB30-2037	XT, AT	05Y
Client & Lawyer Financial System	Demo	6187-266	100										PC	05Y
Client Files, Conflict & Dates System	Manac	6187-249	450									GB30-2037	XT, AT	05Y
Client Files, Conflicts and Dates	Demo	6187-267	100										PC	05Y
CLOUT		6187-245	249									GB30-2037	PC, XT, 3270-PC+R;base	05Y
Computer Preparation for the SAT tm		6187-307	79									GB30-2037	PC, XT, PCjr	05Y
Computer Stocks and Bonds tm		6086-016	25									GB30-2037	PC	05Y
Context MBA tm (Feature 9147)	Demo	6871-394	174										PC	05Y
+CRIBHARE tm		5793-AGT	2500									GB30-2027	Industrial PC	05Y
Cross Clues (R)		6092-632	30									GB30-2037	PC	05Y
Crosstalk tm		6871-366	195									GB30-2037	PC	05Y
Data Base Manager II-The Integrator tm		6871-331	295									GB30-2037	PC, 3270-PC, XT, AT	05Y
dBASE II (R)		6086-009	495									GB30-2037	PC, 3270-PC	05Y
dBASE II - Multiuser		6187-188	995									GB30-2037	PC	05Y
dBASE III Plus tm		6187-184	695									GB30-2037	PC, XT, 3270-PC, AT, RT	05Y
Defining Goals and Objectives	Demo	6871-529	113										PC	05Y
+DIAGRAM-MASTER tm		6187-156	345									GB30-2037	PC, XT, AT, 3270-PC	05Y
Digital Research FORTRAN 77 tm		6871-437	350									GB20-2037	PC, ST, 3270-PC	05Y
Dollars and Sense tm		6871-482	180									GB30-2037	PC, PCjr	05Y
+EASYLABEL tm		5793-AGP	2500									GB30-2027	Industrial PC	05Y
+EASYLABEL tm (Manual)		5793-AGP/01	125									GB30-2027	Industrial PC	05Y
Electric Desk tm		6187-242	365									GB30-2037	PC, XT, 3270-PC, AT	05Y
+Electric Desk tm Academic Edition		6205-272	64									GB30-2037	PC, XT, AT, jr	05Y
+Electric Desk tm Academic Edition		6205-273	64									GB30-2037	PCC 3.5" drive	05Y
+Electric Desk tm Academic Edition		6404-014	13									GB30-2037	User's Guidege	05Y
+Electric Desk tm Academic Edition		6476-223	86									GB30-2037	PCjr cartridge	05Y
ENERGRAPHICS tm		6187-234	350									GB30-2037	PC, XT, 3270-PC+color	05Y
ENERGRAPHICS tm Plotter		6187-236	100									GB30-2037	ENERGRAPHICS+Plotter	05Y
Excelsior		6187-282	8400									GB30-2037	3270-PC, XT, AT	05Y
FAST GRAPHS tm		6871-362	140									GB30-2037	PC	05Y
FLEET MAINT tm		5793-ACH	3950									GB30-2037	5531, 7531, 7532	05Y
Flight Simulator tm		6871-290	49									GB30-2037	PC, PCjr	05Y
Framework II tm		6187-185	695									GB30-2037	PC, XT, 3270-PC, AT, RT	05Y
FriendlyWare (R) PC Arcade		6871-361	49									GB30-2037	PC	05Y
FriendlyWare (R) PC Introductory Set		6085-985	49									GB30-2037	PC	05Y
+GEM tm Collection		6205-284	199									GB30-2037	PC, XT, AT, KB/mouse	05Y
+GEM tm Desktop		6205-285	50									GB30-2037	PC, XT, AT, KB/mouse	05Y
+GEM tm Draw		6404-013	249									GB30-2037	PC, XT, AT, KB/mouse	05Y
+GEM tm Graph		6404-012	249									GB30-2037	PC, XT, AT, KB/mouse	05Y

Program Title	Short Name	Number	OTC	ILC	MLC	DSO	DSI	DSM	MLP	MML	Mo	MoreInfo	Environment	TPLS
+GEM tm Wordchart		6404-006	149									GB30-2037	PC,XT,AT,KB/mouse	05Y
+Golden Common LISP (R)		6205-279	495									.GB30-2037	PC,XT,AT	05Y
GOLF'S BEST tm		6187-241	50									.	PC	05Y
Graphwriter tm Basic Set		6871-476	395									.GB30-2037	PC,XT,3270-PC	05Y
Graphwriter tm Combination Set		6871-477	595									.GB30-2037	PC,XT,3270-PC	05Y
Graphwriter tm Extension Set		6871-478	395									.GB30-2037	PC,XT,3270-PC	05Y
Harvard tm Total Project Manager		6871-481	495									.GB30-2037	PC,XT,AT	05Y
+Javelin tm		6086-012	695									.GB30-2037	PC,XT,AT,3270-PC	05Y
LABTECH NOTEBOOK (R)		6187-324	895									.GB30-2037	PC,PC/XT,AT	05Y
Law Firm Financial Management	Demo	6187-268	100									.	PC	05Y
Law Firm Financial System	Manac	6187-250	450									.GB30-2037	PC,XT,AT	05Y
Leading Effectively	Demo	6871-528	113									.	PC	05Y
LetterWriter		6187-296	395									.	PC	05Y
Litigation Support Version B		6187-318	450									.GB30-2037	XT,AT	05Y
+LODPWORKS tm		5793-AGR	2995									.GB30-2027	Industrial PC	05Y
+LODPWORKS tm Manual		5793-AGR/01	105									GB30-2027	Industrial PC	05Y
+Magic Menu Network tm		6187-303	500									GB30-2037	PC,XT,AT,3270-PC	05Y
+Magic Menu tm		6205-283	99									GB30-2037	PC,XT,AT,3270-PC,jr	05Y
MailMerge (R)		6085-982	250									.GB30-2037	PC	05Y
Managing Time Effectively	Demo	6187-154	113									.	PC	05Y
MasterType tm (Feature 9294)		6871-484	39									.GB30-2037	PC,XT,PCjr	05Y
Math Blaster! tm		6871-443	49									.GB30-2037	PC,XT,PCjr	05Y
MATH/PC-LIBRARY tm		6187-270	440									.GB30-2037	PC,XT,AT,RT	05Y
MEDIA-FLEX Inventory Module Upgrade		5793-AGB/01	3000									GB30-2037	6556	05Y
MEDIA-FLEX tm Maintenance Management		5793-AFD	5995									.GB30-2037	5531,7531,7532	05Y
MEDIA-FLEX tm Preventive Maintenance		5793-AGB	3995									GB30-2037	5531,7531,7532	05Y
Metric I - Fundamentals of Decimals		6871-487	49									.GB30-2037	PC,XT,PCjr	05Y
Metric III - Units of Measurement		6871-518	49									.GB30-2037	PC,XT,PCjr	05Y
Metric IV - Linear Units (Feature 9329)		6871-519	49									.GB30-2037	PC,XT,PCjr	05Y
Metric V - Area Density Measurements		6871-520	49									.GB30-2037	PC,XT,PCjr	05Y
MICRO MAINT tm		5793-AFF	4950									GB30-2037	5532,7531,7532	05Y
micro-PROLOG		6205-277	395									.GB30-2037	PC,XT,AT	05Y
MicroLink II tm (Feature 9154)	Demo	6871-401	30									.	CP/M-86	05Y
Microsoft (R) MOUSE (BUS)		6871-347	175									.GB30-2037	PC,XT,3270-PCuse	05Y
Microsoft (R) Project		6086-003	395									.GB20-2037	PC,XT,PCjr,AT,3270PC	05Y
Microsoft (R) WORD		6871-348	395									.GB30-2037	PC,XT,PCjr	05Y
Microsoft Chart		6086-008	295									.GB20-2037	PC,XT,AT,PCjr,3270PC	05Y
Midway Campaign tm		6085-994	21									.GB30-2037	PC	05Y
Milestone tm (Feature 9155)	Demo	6871-402	30									.	PC	05Y
MinuteMan tm		5793-AFC	4990									.GB30-2037	5532,7532,7532	05Y
+Modicon Draftec		5793-AHF/02	950									.	Industrial PC	05Y
+Modicon Micro-84 Ladder Logic Documentat		5793-AHD	1250									.	Industrial PC	05Y
+Modicon Wiring Diagram Generator		5793-AHF/01	500									.	Industrial PC	05Y
+Modicon 484 Draftec		5793-AHE/01	950									.	Industrial PC	05Y
+Modicon 484 Ladder Logic Documentation		5793-AHE	1250									.	Industrial PC	05Y
+Modicon 484 Wiring Diagram Generator		5793-AHE/02	500									.	Industrial PC	05Y
+Modicon 584/884/984 Ladder Logic Documen		5793-AHF	2500									.	Industrial PC	05Y
MSC/case		6187-351	895									.GB30-2037	PC,XT,AT,3270-PC	05Y
MSC/pal 2		6187-350	1995									.GB30-2037	PC,XT,AT	05Y
MultiMate tm		6871-408	495									.GB30-2037	PC,XT,AT,3270-PC	05Y

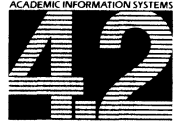
Program Title	Short Name	Number	QTC	ILC	MLC	DSO	DSI	DSM	MLP	MML	Mo	MoreInfo	Environment	TPLS
NAG tm FORTRAN PC50 Library		6187-277	345									.GB30-2037	PC,XT,AT,RT	05Y
Network tm Bridge		6404-011	395									GB30-2037	PCNetwork+PCCluster	05Y
+NetWare tm Bridge 2.0a		6476-229	395									GB30-2037	PC,XT,AT,3270-PC	05Y
Overhead Express tm		6187-191	195									GB20-2037	PC,XT,3270-PC,AT	05Y
Pascal/MT+ tm		6871-352	400									GB30-2037	PC,XT,3270-PC	05Y
PC PicturePak The PC Family		6187-327	195									GB30-2037	PC,XT,PCjr,AT	05Y
+PC Picturepak tm - Eye Openers		6871-340	195									GB30-2037	Storyboard	05Y
PC PicturePak tm - Holidays		6187-323	195									GB30-2037	PC,XT,PCjr,AT,3270PC	05Y
+PC Picturepak tm - TypeStyles		6476-222	195									GB30-2037	Storyboard	05Y
PC Tutor tm		6871-287	59									GB30-2037	PC	05Y
PCCrayon tm (Feature 9290)		6871-480	60									GB30-2037	PC,XT,PCjr	05Y
+PCemas tm		6187-159	4995									GB30-2037	AT	05Y
+PCemas tm Report Generator		6187-160	695									GB30-2037	PCemas	05Y
Personal Investor (R)		6086-015	145									GB30-2037	PC	05Y
Personal Tax Planner		6187-297	295										PC	05Y
Personal Tax Planner	Demo	6187-302	59										PC(Business Library)	05Y
PL/I		6871-350	750									GB30-2037	PC,XT,3270-PC	05Y
Professor DOS tm		6871-423	59									GB30-2037	PC	05Y
Project Scheduler 5000		6871-485	285									GB30-2037	PC,XT	05Y
Project Scheduler 5000 Plus Graphics tm		6085-992	395									GB30-2037	PC,XT	05Y
ProKey tm		6871-526	125									GB30-2037	PC,XT,PCjr	05Y
QualityAlert tm		5793-AFA	795									GB30-2037	5531,7531,7532	05Y
R-B 4000 Extended Report Writer	XRM	6187-246	150									GB30-2037	PC,XT,3270-PC	05Y
R-BASE (R) SERIES 4000		6871-479	495									GB30-2037	PC,XT,3270-PC,AT	05Y
R:BASE SERIES tm 5000		6205-281	700									GB30-2037	PC,XT,AT,3270-PC	05Y
R:BASE 5000 Multi-user		6187-161	1500									GB30-2037	PC,XT,AT	05Y
Rags to Riches Accounts Payable		6187-275	99										PC	05Y
Rags to Riches Accounts Payable	Demo	6187-288	20										PC	05Y
Rags to Riches Accounts Receivable		6187-274	99										PC	05Y
Rags to Riches Accounts Receivable	Demo	6187-289	20										PC	05Y
Rags to Riches Accounts Sales		6187-275	nc										PC	NO5Y
Rags to Riches Accounts Sales	Demo	6187-290	20										PC	05Y
Rags to Riches Dealer Selling Kit	Demo	6187-306	15										PC	05Y
Rags to Riches Ledger		6187-272	99										PC	05Y
Rags to Riches Ledger	Demo	6187-287	20										PC	05Y
REVELATION tm		6187-231	950									GB30-2037	PC,XT,AT,3270-PC	05Y
REVELATION tm Tutorial		6187-262	25									GB30-2037	REVELATION	05Y
SAT Word Attack! Data Disk		6187-238	20										PC	05Y
SID-86 tm		6871-360	150									GB30-2037	CP/M-86 or Concurrent	05Y
SIDEKICK tm		6187-190	85									GB30-2037	PC,XT,AT,3270-PC	05Y
SIDEWAYS tm		6187-192	70									GB20-2037	PC,XT,3270-PC,AT	05Y
Sign Master tm (Feature 9242) Ver 5.05		6187-183	245									GB30-2037	PC,XT,3270-PC,AT	05Y
SmarTerm tm 100 (DEC.VT52,VT100,1,2,EDT)		6871-489	149									GB30-2037	PC,XT,3270-PC	05Y
SPEED READER II tm		6871-441	69									GB30-2037	PC,XT,3270-PC,PCjr	05Y
Spotlight tm		6187-284	75									GB30-2037	PC,XT	05Y
SQCpack tm		5793-AEZ	595									GB30-2037	5531,7531,7532	05Y
STAT/PC-LIBRARY tm	IMSL	6187-271	440									GB30-2037	PC,XT,AT,RT	05Y
States 'n Caps (R)		6871-278	39									GB30-2037	PC,XT,PCjr	05Y
SuperCalc3 (R)		6871-375	395									GB30-2037	PC,XT,3270-PC,AT	05Y
SuperCalc3 (R) (Feature 9431)		6187-170	69									GB30-2037	PCjr	05Y

Program Title	Short Name	Number	OTC	ILC	MLC	DSO	DSI	DSM	MLP	MML	Mo	MoreInfo	Environment	TPLS
SuperProject Plus tm		6871-439	495									.GB20-2037	PC,XT,AT	05Y
Symphony Spelling Checker		6187-251	139									.GB30-2037	Symphony tm	05Y
Symphony Text Outliner		6187-252	139									.GB30-2037	Symphony tm	05Y
Symphony tm (Feature 9448)		6187-187	695									.GB30-2037	PC,XT,PPC	05Y
Tax Decisions tm	Demo	6871-444	25										PC	05Y
Taylor Industrial - Modicon 484/584/884		5793-AGD	2500									GB30-2037	5531,7531,7532	05Y
TCS Client Ledger System tm		6187-208	1695									.GB30-2037	PC,XT,AT	05Y
Telemath Disk 8		6871-383	40									.GB30-2037	PC	05Y
Temple of Apschai (R)		6085-990	40									.GB30-2037	PC	05Y
+Texas Instruments Ladder Logic Documenta		5793-AGG	2500										Industrial PC	05Y
The Business Letterseries		6187-295	195										PC	05Y
The Business Letterseries	Demo	6187-300	39										PC(Business Library)	05Y
+THE FIX BASIC Data Base Access		5793-AGQ/13	395									GB30-2027	6595	05Y
+THE FIX BASIC Data Base Access		5793-AGW/01	395									GB20-2037	6595	05Y
+THE FIX C Language Data Base Access		5793-AGQ/14	395									GB30-2027	6596	05Y
+THE FIX C Language Data Base Access		5793-AGW/02	395									GB20-2037	6596	05Y
+THE FIX Device Driver for ACRO-900 tm		5793-AGQ/06	795									GB30-2027	5793-AGW	05Y
+THE FIX Device Driver for DT 2808		5793-AGQ/08	795									GB30-2027	5793-AGW	05Y
+THE FIX Device Driver for IBM DACA		5793-AGQ/05	795									GB30-2027	5793-AGW	05Y
+THE FIX Device Driver for MODBUS tm		5793-AGQ/09	1095									GB30-2027	5793-AGW	05Y
+THE FIX Device Driver for OPTOMUX tm		5793-AGQ/10	795									GB30-2027	5793-AGW	05Y
+THE FIX Device Driver for PLC-2 tm		5793-AGQ/07	795									GB30-2027	5793-AGW	05Y
+THE FIX Eng Devt with EPROM for C/GA		5793-AGQ/02	2100									GB30-2027	Industrial PC	05Y
+THE FIX Eng Devt with EPROM for EGA		5793-AGQ/03	2100									GB30-2027	Industrial PC	05Y
+THE FIX Historical Trending		5793-AGQ/16	650									GB30-2027	6598	05Y
+THE FIX Historical Trending		5793-AGW/05	650									GB20-2037	6598	05Y
+THE FIX OEM Toolkit		5793-AGQ/11	1250									GB30-2027	5793-AGW	05Y
+THE FIX Online Report Package		5793-AGQ/15	150									GB30-2027	6593	05Y
+THE FIX Online Report Package		5793-AGW/04	150									GB20-2037	6593	05Y
+THE FIX Online Spreadsheet Interface		5793-AGW/03	250									GB20-2037	6597	05Y
+THE FIX Runtime with EPROM for EGA		5793-AGQ/04	2675									GB30-2027	Industrial PC	05Y
+THE FIX tm Runtime w/EPROM for CGA/EGA		5793-AGW	2675									GB20-2037	Industrial PC	05Y
+THE FIX tm with EPROM for C/GA		5793-AGQ	4500									GB30-2027	Industrial PC	05Y
+THE FIX tm with EPROM for CGA/EGA		5793-AGX	2100									GB30-2037	Industrial PC	05Y
+THE FIX tm with EPROM for EGA		5793-AGQ/01	4500									GB30-2027	Industrial PC	05Y
+THE FIX User's Guides Set		5793-AGQ/12	125									GB30-2027	5793-AGW	05Y
The Instructor tm		6871-288	44									.GB30-2037	PC	05Y
The LetterWriter	Demo	6187-301	79										PC(Business Library)	05Y
The Scientific Desk tm		6187-278	420									.GB30-2037	PC,XT,AT,RT	05Y
ThinkTank tm		6187-244	195									.GB30-2037	PC,XT	05Y
Thoughtware (R) Sampler		6187-217	19									.GB30-2037	PC,XT,PCjr+DOS2	05Y
Timberline Accounts Payable		6871-490	990									.GB30-2037	PC,XT,AT	05Y
Timberline Architect/Engineer		6871-516	2800									.GB20-2037	PC,XT,AT	05Y
Timberline Estimating		6871-337	690									.GB20-2037	PC,XT,AT	05Y
Timberline General Ledger		6871-514	990									.GB20-2037	PC,XT,AT	05Y
Timberline Job Cost		6871-524	2390									.GB20-2037	PC,XT,AT	05Y
Timberline Payroll		6871-508	990									.GB20-2037	PC,XT,AT	05Y
Timberline Starter Set		6871-511	100									.GB20-2037	PC,XT,AT	05Y
Timberline TS-Reporter I		6187-230	190									.GB20-2037	PC,XT,AT	05Y
IK!Solver (R) DEMO	Demo	6871-493	50										PC	05Y

Program Title	Short Name	Number	OTC	ILC	MLC	DSO	DSI	DSM	MLP	MML	Mo	MoreInfo	Environment	TPLS
TURBO PASCAL		6187-326	70									.GB30-2037	PC,XT,AT,PCjr	0SY
Tutorial Set		6871-330	94									.GB30-2037	PC	0SY
Type Faces tm		6871-333	95									.GB30-2037	PC,3270-PC	0SY
Typing INSTRUCTOR		6404-005	50									.GB30-2037	PC,XT,PCjr	0SY
<u>I3 tm Scientific Word Processing System</u>		<u>6187-281</u>	<u>595</u>									<u>.GB30-2037</u>	<u>PC,XT,XT/370,AT,RT</u>	<u>0SY</u>
Understanding Personal Interaction Style Demo		6187-155	88										PC	0SY
VisiFile tm		6086-020	300									.GB30-2037	PC	0SY
VisiSchedule tm		6086-021	300									.GB30-2037	PC	0SY
VisiSchedule tm		6871-323	300									.GC30-2037	PC,XT,3270-PC	0SY
<u>VisiSpell tm (Feature 9077)</u>	<u>Demo</u>	<u>6871-319</u>	<u>50</u>										<u>PC</u>	<u>0SY</u>
VisiTrend/Plot tm		6085-988	300									.GB30-2037	PC	0SY
VS CDBOL Workbench		6205-286	4000									.GB30-2037	PC,XT,AT,3270-PC	0SY
VTERM (DEC.VT100 tm, DEC.VT52 tm)		6871-491	125									.GB30-2037	PC,XT	0SY
WORD ATTACK! tm		6871-442	49									.GB30-2037	PC,XT,PCjr	1SY
<u>Word III tm</u>		<u>6086-002</u>	<u>550</u>									<u>.GB30-2037</u>	<u>PC,XT,3270-PC+D052</u>	<u>0SY</u>
Word Perfect tm (Spanish Version)		6205-276	495									.GB30-2037	PC,XT,AT,3270-PC	0SY
WordMARK tm		6187-276	495									.GB30-2037	PC,XT,AT,RT	0SY
WordPerfect tm		6871-456	495									.GB30-2037	PC,3270-PC,XT,AT	0SY
WordStar (R)		6085-980	495									.GB30-2037	PC	0SY
<u>WordStar (R) Version 3</u>		<u>6871-326</u>	<u>495</u>									<u>.GB30-2037</u>	<u>PC,XT,3270-PC,AT</u>	<u>0SY</u>
WordStar Professional tm		6871-407	695									.GB30-2037	PC,XT,3270-PC,AT	0SY
WordStar 2000 (R)		6187-311	495									.GB30-2037	PC,XT,AT,RT	0SY
WordStar 2000 Plus (R)		6187-313	595									.GB30-2037	PC,XT,AT	0SY
WordWhiz (R)		6871-279	39									.GB30-2037	PC,XT,PCjr	0SY
<u>World Geography Facts</u>		<u>6187-201</u>	<u>150</u>										<u>PC</u>	<u>0SY</u>
1-2-3 tm	Lotus tm	6871-325	495									.GB20-2037	PC,XT,AT,RT	0SY
1-2-3 tm	Demo	6871-505	100										3270-PC	0SY



# Academic Information Systems 4.2 Operating System for the RT PC



5799-CGZ \$1,715

Introducing a multiuser, multitask operating system created for the college and university academic community. It is derived from the 4.2 Berkeley Software Distribution version of the UNIX™ operating system.

It has a broad command language, device-independent input/output, extensive communications facilities, a hierarchical file system and program development tools. Because source code is provided, you can modify or tailor it to your needs.

IBM Academic Information Systems 4.2 supports a wide range of environments and application areas. Some of them include: time sharing, batch processing, program development and document preparation. Shipped with the system is a C compiler, a FORTRAN 77 language compiler, an assembler and system source code. The C compiler eases the migration of applications developed for UNIX operating systems to the RT PC.

## Hardware Support

- 6150 Model 25 (floor-standing) processor
- 6151 Model 10 (desk top) processor
- 5152 Graphics Printer (supported—but withdrawn from marketing)
- 6153 Advanced Monochrome Graphics Display
- 6155 Extended Monochrome Graphics Display
- 3812 Pageprinter in text mode
- Proprinter
- RT PC Floating Point Accelerator option

See *Hardware Configurations* for more details.

## Subsystems

- 4.2BSD hierarchical file system
- IBM Token-Ring network support
- Ethernet™
- Asynchronous communications
- 'uucp,' which copies files between systems running UNIX operating systems
- TCP/IP
- Programming tools
- Document preparation tools
- Electronic mail
- System resource accounting

## Software Features

- Shared read-only code
- Demand-paged virtual memory
- C shell and Bourne shell command languages
- Modular utilities
- Support for background and foreground processing
- Optimized Portable C compiler
- FORTRAN 77 compiler
- 'adb' and 'dbx' debuggers
- Source files for 4.2BSD tools and utilities
- Binary files for supported 4.2BSD tools and utilities
- IEEE 754 floating point arithmetic and math library

You can find a complete list of supported functions in *Academic Information Systems 4.2 for the IBM RT PC*, available to licensees of the product.

## Description

The system operates as a single or multiuser system. It uses either a local area network or asynchronous communications lines. With the operating system is support for program development, including a FORTRAN 77 language compiler, C language compiler, adb and dbx debuggers, an assembler and library support.

## Hardware Configurations

IBM Academic Information Systems 4.2 supports the following features of the RT PC, the desk-top 6151 Model 10, and the floor-standing 6150 Model 25. (Some features are supported but are optional, i.e., the RT PC Floating Point Accelerator.)

### 6151 Model 10 Configuration

A processor with:

- 2MB RAM with error correction code.
- AT fixed-disk and diskette drive adapter.
- A monochrome display and printer adapter.
- A local area network adapter (see below).
- RT PC Floating Point Accelerator (optional).

and

- One RT PC 40MB fixed-disk drive.
- RT PC keyboard.
- AT 1.2MB diskette drive.
- RT PC mouse (optional).
- An all-points-addressable display (see below).

### 6150 Model 25 Configuration

A processor with:

- 4MB RAM with error correction code.
- Two AT fixed-disk and diskette drive adapters.
- A monochrome display and printer adapter.
- A local area network adapter (see below).
- RT PC Floating Point Accelerator (optional).
- Two asynchronous (RS232C) serial ports with direct memory access.
- RT PC four-port asynchronous (RS232C) adapter.
- RT PC streaming tape drive adapter.

and

- Three RT PC 70MB fixed-disk drives.
- RT PC keyboard.
- AT 1.2MB diskette drive.
- RT PC mouse (optional).
- An all-points-addressable display (see below).
- 6157 streaming tape drive.

**Other configurations** are available. The system usually will run on these, but may not have been tested.

### **Local Area Network Adapter**

- **Ethernet** The system provides a sample device driver for the Ungermann-Bass Ethernet controllers, numbers 2274A and 2273A, which were tested in the RT. Ethernet controllers are not available from IBM.
- The IBM **Token-Ring** Network RT PC Adapter connects the RT to the Network. The network uses the IBM Cabling System for physical connection and a token-ring access protocol for network traffic control.

The **floating point accelerator** is an optional feature providing high-speed IEEE 754 arithmetic operations. It has single- and double-precision arithmetic and multiple register sets to reduce task-switching overhead. Accompanying system software handles exception conditions and provides an identical user interface when the accelerator is not installed.

The **3812 Pageprinter** is a low-priced, multifunction, non-impact page printer producing cut-sheet, letter-quality text and all-points-addressable graphics at a maximum speed of twelve pages per minute. You can do legal and letter-sized pages, and gummed labels. It is supported in text mode and attaches with an RS232 serial port.

Fast, high-capacity tape backup, restore and data interchange capability is available. The 6157 is a 0.25" tape cartridge unit of 55MB formatted per cartridge, at rates of up to 4MB per minute.

**Device drivers** for supported devices are included with the operating system. As with 4.2BSD, facilities are provided for the programmer to develop additional drivers. They can be compiled into the kernel.

The **kernel** is the basic, resident operating system. It executes system calls, maintains the file system and manages system resources. It contains device drivers, input/output buffers and processor and memory scheduling components. It also gathers accounting and device error information. Logically, I/O is synchronous. The operating system has automatic buffering to make physical records transparent. It also supports the overlapped I/O of the RT.

The **file system** is a tree-like hierarchy of files and directories. With file operations, you can:

- Organize and name files.
- Create files.
- Modify and allot file size dynamically.
- Access one file from multiple directories.
- Move, copy and rename files.
- Allow the file owner to set file protection dynamically.
- Provide file protection independently for reading, writing and executing files.
- Protect each file separately for the file owner, the relevant work group and all others.

**ed** The original editor supplied with UNIX operating systems. It is line-oriented with very strong 'regular-expression' keyword search capabilities.

**vi** The visual editor is a full-screen editor to:

- Correct, insert and delete by cursor positioning and typing.
- Move and copy operations.
- Scroll one or more lines.
- Automatically scroll input.

The **command languages** (C shell and Bourne shell) serve as interactive interpreters with high-level programming language constructs. Shell scripts (command files) are easy to write. They perform tedious or repetitive command sequences to tailor the environment to specific requirements. Shell features are:

- Redirection of standard input and output, permitting a program to run with a file, display, keyboard or other device as input and output.
- Sequential command execution.
- Concurrent parallel command execution with the output of one command connected to the input of another. This command chaining,

called 'piping,' permits the construction of complex operations from sequences of simple programs.

- Program and command execution in the background, freeing the foreground for interactive or high priority jobs.
- Conditional execution, with *if*, *then*, *else*, *for*, *case* and *while* constructs.
- Case selection based on pattern matching.
- String variables, including string and integer operations on those variables.
- Iteration of commands for explicit lists of items, file names or command-file arguments.

**Access** is protected by passwords. The system administrator lets you change your passwords.

### Communications Support

The system is capable of communicating with systems running UNIX, or other operating systems, over asynchronous communications lines (direct connect, leased lines or dialed lines), and over local area networks. The local area networks supported were described previously. The functions provided for asynchronous communications lines include:

- uucp** Copies files between systems running UNIX operating systems.
- uux** Runs a command on a specified UNIX operating system and sends standard output to a file on a specified system.

The functions provided for local area networks are used under TCP/IP protocols and include:

- rlogin** Supports logging into a remote UNIX operating system.
- rsh** Executes a command on a remote host and receives its standard output.
- rcp** Copies files between UNIX operating systems.
- ftp** The user interface to the ARPANET standard File Transfer Protocol, permits files to be copied between systems running UNIX or other operating systems.
- telnet** The user interface to the TELNET protocol.

**File Management Utilities** There are lots of utilities to copy, rename, delete and archive files. Other commands give you flexible access to the directory hierarchy. You can create and remove files and directories you own, list

information about files and directories, or search a directory hierarchy for files having particular characteristics. There are commands to locate particular strings or combinations of strings in files, find line-by-line differences or common lines among files, perform character translations, and sort and merge files based on selected fields.

**Status Inquiry Utilities** Status inquiry commands let you determine what processes are active and obtain various system use statistics. You can also request a disk use summary by directory or for the entire file system.

**Document Preparation** The document preparation facilities of have a full-screen editor, spelling error detection facilities, and text formatting capabilities. The text formatting facilities provide control of formatting features such as pagination, paragraph style, heading and subheading numbers, line justification, hyphenation, multicolumn pages, footnote placement and generating tables of contents. These facilities help automate the production of documents such as letters, memoranda, legal briefs and books.

**Program Development Tools** The system programming language is C, a general-purpose language designed for structured programming. With the portable C compiler is an optimizer that enhances processor throughput.

The FORTRAN 77 language is supported by an F77 compiler; compiled programs are compatible with C compiled programs and with the C runtime libraries.

The major debugging utility, *dbx*, supports debugging of compiled programs in terms of C and FORTRAN source language variables and statements. Programmers can single-step source statement execution, trace function calls, and display or stop on a variety of conditions—notably to modify a designated variable or execute a designated statement.

Additional features are broad runtime libraries, an assembler, and 'lint,' a program to check C source programs to ensure adherence to portable structured programming conventions.

Other support tools include a C cross-referencer, a symbol table lister, and programs to organize and maintain object module libraries.

The 'make' program helps automate program creation and maintenance, and ensure all elements of a set of programs are current. A graph of dependencies, specified in a makefile, controls the re-creation of the target programs. If some elements are modified, only the modules affected by the dependencies are recompiled.

## System Management Functions

- Add, delete and change user accounts.
- Create, mount and unmount file systems.
- Perform consistency checks on the file systems; automatically or interactively repair damaged file systems.
- Dump and restore file systems, with both full and incremental dumps supported.
- Start up and shut down the system.
- Enable and disable system access through selected ports.
- Monitor performance and log errors.

**Commands** You can find out more about the UNIX operating system commands supported by this product in *Academic Information Systems 4.2 for the IBM RT PC* manual available to licensees.

**Customer Support** We're there to help when you need us. IBM Academic Information Systems University Support provides central service to the site support center established by each customer.

Problem reporting, temporary fixes and other communications with IBM Academic Information Systems University Support are transmitted to and from each customer site support center by 'uucp' over switched telephone lines.

**Education** covering the product overview, support procedures and installation procedures is available to all newly licensed customers.

**Compatibility/Conversion** IBM Academic Information Systems 4.2 is not compatible with, does not support, and does not require either the IBM RT PC Virtual Resource Manager or Advanced Interactive Executive (AIX) operating system.

The **publication** provided with the system is the manual: *Academic Information Systems 4.2 for the IBM RT PC*. It describes the differences between IBM Academic Information Systems 4.2 on the IBM RT PC and 4.2BSD, and provides updates to 4.2BSD documentation. As with 4.2BSD, the documentation for IBM Academic Information Systems 4.2 is available online, through use of the man command, on systems with sufficient disk storage.

Each customer site support center should have a copy of the following manuals. If additional copies are required, you can order them from an IBM representative:

IBM RT PC Model 10 Hardware Maintenance and Service	SV21-8026
IBM RT PC Models 20 and 25 Hardware Maintenance and Svc.	SV21-8025
IBM RT PC User Setup Guide	SV21-8020
IBM RT PC Guide to Operations	SV21-8021
IBM RT PC Problem Determination Guide	SV21-8022
IBM RT PC Hardware Technical Reference	SV21-8024

It is the customer's responsibility to obtain copies of the following manuals:

- UNIX Programmer's Manual—4.2 Berkeley Software Distribution, Volumes 1 and 2C
- UNIX Programmer's Manual—AT&T Bell Laboratories, Volume 2

**If you want to order IBM Academic Information Systems 4.2 Operating System**, contact your local ACIS Academic Specialist. Specify program number PRPQ 5799-CGZ. This program is available only to those colleges and universities eligible for an educational allowance. Quantity discounts are available. Operators are standing by.

## **Three Integrated Accounting Solutions—One Is Right for You**

Whether your accounting needs are small or large, basic or complex, IBM offers you a choice of accounting solutions.

Accounting Assistant Series  
Business Management Series  
Business Adviser

Each of these sets of applications has been developed for use with IBM PCs. All three are designed to be functional, expandable and refreshingly simple to use. Each reflects its own level of sophistication and ability to share information.

Each series is modular, so you can add to your accounting capabilities as your business grows. Each series offers a variety of security, auditing, user support and customized reporting features designed to make your job easier.

If your company's bookkeeping needs are basic, the Accounting Assistant Series may be just what you need. It's a low-cost, diskette system designed for low-volume users. It's friendly; you can start using it almost immediately—even if you have very little accounting or computer experience.

If your business requires more extensive financial controls or a higher level of integration, you'll want to consider all that the Business Management Series has to offer. This medium-priced accounting system is designed to meet the functional needs of users in the medium-volume range. The Business Management Series can help provide more comprehensive data entry processing, faster invoicing, broader payroll reporting and more flexible financial analysis than the Accounting Assistant Series. Yet it is still easy to learn and use.



For larger companies, or for companies with a need for more advanced function in an integrated solution, the Business Adviser represents the most far-reaching business accounting system offered for the PC. This series offers very flexible calculating, analyzing and reporting capabilities not available with the Accounting Assistant or Business Management Series.

It provides online information to keep you informed about current financial status. Many advanced features are included to help you simplify your job and reduce the errors.

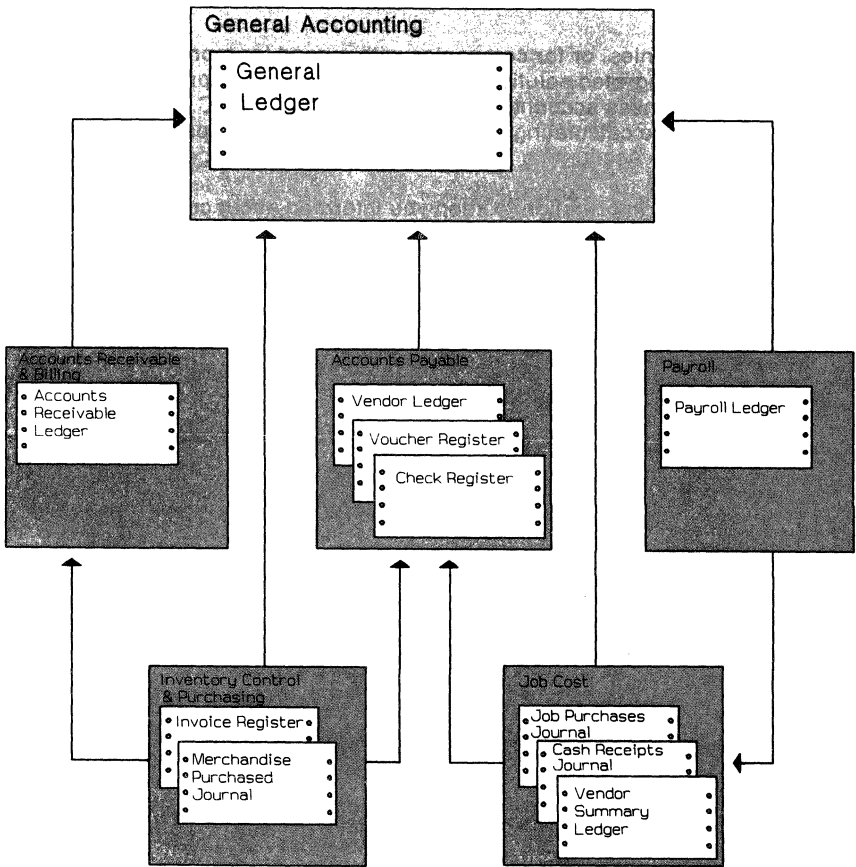
The more you know about all three accounting packages, the easier it will be for you to identify the features and functions that match your accounting needs.

### **Accounting Assistant Series**

Once you see how simple this integrated family of applications is to install, learn and use, you will wonder why you waited so long to automate the bookkeeping system.

The Accounting Assistant Series is designed for owners with little or no experience in accounting or in operating PCs. Each application within the series uses the same standard English-language commands to help make it simple for you to use throughout your business, whether you own one company or several. A set of sample data is also provided as a practical learning aid.

The series is composed of six separate applications: General Accounting, Accounts Payable, Accounts Receivable and Billing, Payroll, Inventory Control and Purchasing and Job Cost.



These applications can work together, by sharing information, or operate independently of each other.

For companies just beginning to automate their accounting procedures, the General Accounting Edition is a great place to start. It offers basic general ledger capabilities, plus Accounts Payable, Accounts Receivable and Payroll subledgers in one package.

By adding the separate Accounts Payable, Accounts Receivable and Payroll editions, you can selectively expand the abbreviated functions of the three General Accounting subledgers, or you can license and use as standalone applications, only those you require.

The Job Cost Edition offers specialized data entry, recording and reporting features for construction firms and other project-oriented companies.

The Inventory Control and Purchasing Edition offers a variety of inventory management and control features. For example, it can help you spot

overstocked situations, reduce your investment in inventory and improve customer service.

Whichever combination of Accounting Assistant Series editions you choose for your business, you will find an accounting solution that covers a broad spectrum of business operations.

### **General Accounting 6317049 \$595**

This Edition enables a professional to take advantage of computerized accounting procedures. It contains subsidiary ledgers for accounts payable, accounts receivable and payroll. Many businesses may find the use of the subsidiary ledgers adequate to meet their bookkeeping requirements. It provides for automatic recurring entries and produces trial balances, chart of account lists, and financial statements by department.

#### **Highlights**

- Produces financial reports; balance sheet, income statement and general ledger.
- Provides departmental and consolidated income statements.
- Maintains customer accounts payable balances, invoice due dates and current activity details.
- Prints checks when the Payroll and Accounts Payable Editions are not installed.
- Allows for fast entry of cash register tape totals.
- Automates recurring monthly entries.
- Operates independent of or in conjunction with other editions of the Accounting Assistant Series.
- Provides for automated entry of transactions from an external source.
- Operates on a single PC or with appropriate compatible hardware and software, in the PC Network or Token Ring environment.

**Environment:** Requires a PC, XT, AT or Convertible with 256k, two diskette drives or fixed disk, printer and DOS 2.0 or later.

## **Accounts Payable Edition 6317050 \$595**

This Edition provides information that can assist the user in paying bills on time, tracking available discounts and taking advantage of credit terms. Cash and accrual methods are available. For accrual accounting, two fiscal periods may be open for flexibility. The features of the accounts payable ledger in General Accounting are replaced and expanded by the ledger in the General Accounting Edition and Accounts Payable Edition when the two editions are integrated.

### **Highlights**

- Allows for entries to two consecutive open periods with the accrual method.
- Prints checks, mailing labels and file cards.
- Processes periodic recurring payments.
- Writes checks from up to ten checking accounts and performs expense distribution.
- Allows bills to be paid according to vendor, voucher, or for all open vouchers as of a specified date.
- Maintains information for checks written by hand.
- Prints detailed vendor status and detailed information on current, open paid, held and next month's vouchers.
- Calculates and takes discounts allowed for early payment.
- Prints on demand over twenty analyses and listings detailing vendor, voucher or check information.
- Operates independent of or in conjunction with the Accounting Assistant Series General Accounting, Inventory Control and Purchasing and Job Cost Editions.
- Operates on a single PC or, with compatible hardware and software, in a PC Network.

**Environment:** Requires a PC, XT, AT or Convertible with 256k, two diskettes drives or fixed disk, printer and DOS 2.0 or later.

## **Accounts Receivable and Billing Edition 6317051 \$595**

This Edition organizes customer accounts, calculating finance charges and producing billing statements. It provides a wide selection of detailed customer analyses containing both current and historical account activity. Accounts Receivable can be used in conjunction with the General Accounting Edition for additional function. The features of the accounts receivable ledger in the General Accounting Edition are replaced and expanded by the ledger in the Accounts Receivable Edition when the two editions are integrated. When the two are integrated, current activity in the accounts receivable general ledger can be transferred easily to the general accounting ledger. As a standalone system, the Accounts Receivable and Billing Edition contains two comprehensive ledgers, the accounts receivable ledger and the accounts receivable general ledger, that maintain information to help manage cash and credit accounts quickly.

### **Highlights**

- Allows the user to select either the "balance forward" or "open item" method of accounting for each set of books.
- Maintains standard charge, revolving, fixed payment and repetitive charge customer accounts.
- Prints customer statements, past due notices and address labels.
- Allows statements to be customized with the company name, address and special messages.
- Prints up to twenty detailed analyses and listings for one or more customer accounts.
- Customizes billing by allowing the user to determine the number of days for up to four aging periods.
- Allows finance charges to be waived for specific customers.
- Operates independent of or in conjunction with the Accounting Assistant Series General Accounting and Inventory Control and Purchasing Editions.
- Operates on a single PC or, with appropriate compatible hardware and software, in a PC Network environment.

**Environment:** Requires a PC, XT, AT or Convertible with 256k, two diskette drives or fixed disk, printer and DOS 2.0 or later.

## **Payroll Edition 6317052 \$595**

The Payroll Edition performs calculations, writes checks and W2s, distributes expenses and maintains detailed pay and tax information for employees in fifty states, plus District of Columbia and Puerto Rico.

The Payroll Edition allows the user to choose over twenty different payroll/personnel reports and analyses which may be printed or displayed on the screen. The Payroll Edition can work on a standalone basis or may be integrated with the General Accounting Edition in order to transfer account balances from Payroll to General Accounting. Labor costs can be transferred from the Payroll Edition to the Job Cost Edition. This Edition requires the use of a Payroll Tax Table Service to keep the payroll tax table current, since the tax tables are not automatically updated.

- Computes payroll for salaried, hourly and commissioned employees.
- Computes federal, state and selected local taxes.
- Prints checks, W2s and over twenty different departmental or consolidated payroll/personnel reports.
- Allows the user to specify three hourly wage rates and four commission schedules, including piece rate.
- Allows the user to withhold federal income tax, FICA, state income tax and some city and local taxes.
- Allows weekly, biweekly, semi-monthly and monthly pay frequency.
- Maintains employer-sponsored IRAs, tips and tips deemed to be wages.
- Allows the user to specify up to six optional deductions for each employee from twenty possible deductions.
- Distributes wages to multiple payroll expense accounts.
- Operates independent of or in conjunction with the Accounting Assistant Series General Accounting and Job Cost Editions.
- Operates on a single PC or, with the appropriate compatible hardware and software, in a PC Network environment.
- The use of a Payroll Tax Table Service is necessary to keep the payroll tax tables current.

## **Inventory Control and Purchasing Edition**

6317053 \$595

This Edition can cost inventory by one of three methods: LIFO, FIFO, or average cost. The customer can create inventory records which detail vendor/product information and adjust inventory overages and shrinkage with little effort. The system writes purchase orders, records receipts of merchandise, prepares price labels and processes sales using regular discounted pricing. It tracks low balance items and creates back orders. Additional bookkeeping functions assist in recording vendor invoices and debiting or crediting the appropriate ledger accounts and in preparing and printing sales invoices, credit memos and packing lists. Inventory Control offers over twenty kinds of reports including: departmental profit and loss statements for up to ten departments, a trial balance, an inventory control general ledger, price lists, journal listings and inventory listings by item numbers, branch location, primary vendor, low balance items and more. This Edition may standalone or interface with General Accounting, Accounts Receivable and Billing, and Accounts Payable Editions, if installed.

### **Highlights**

- Supports up to ten departments and ten branch locations.
- Offers a choice of three inventory accounting methods—FIFO, LIFO or average cost.
- Produces a single income statement or one income statement for each department.
- Prints invoices, packing lists, purchase orders and credit memos on plain paper or on customized purchase order forms.
- Prints inventory lists that can be sorted fourteen different ways.

**Environment:** PC, XT, AT or Convertible with 256k, two diskette drives or fixed disk, printer and DOS 2.0 or later.

### **Job Cost Edition 6317054 \$595**

This Edition reports income either by completed job or percentage of completion. By setting up only general ledger accounts needed to record job cost transactions the user can tailor the system to meet various reporting needs. Job estimates can be updated when necessary. Detailed reports are provided which include job estimation, a job status report, a code and vendor list, monthly consolidated income and expense statement for all jobs or for each job, a retainage profit and loss statement, a cost type analysis, and journal listings. By comparing actual to estimated costs and quantities, the system reports provide cost variances and projected costs for each work code, work code category subtotals and job totals. Labor

costs may be transferred from the Payroll Edition or entered directly into the Job Cost Journal. Job Cost interfaces with the General Accounting and Accounts Payable Editions, if installed.

- Reports job income either by percentage-of-completion or completed job method of job costing.
- Provides job estimates containing rates, quantities, and dollar amounts for each work code and summary information for work code categories.
- Prints job status reports for each job that compare actual cost to estimated cost on a percentage-of-completion basis.
- Provides a profit and loss statement for each job and a consolidated monthly statement for all jobs.
- Maintains a vendor summary that shows the total amount of purchases from each vendor for the month.
- Provides a monthly job cost summary showing totals by cost type for each open job and a summary for all open jobs.
- Supports a cost type analysis showing totals by cost type for each open job and a summary for all open jobs.
- Provides journals that detail cash receipts, job purchases, inventory transfers, labor costs and general journal entries that have been made.
- Operates independent of or in conjunction with the Accounting Assistant Series General Accounting and Accounts Payable Editions.
- Operates on a single PC or, with the appropriate compatible hardware and software, in a PC Network environment.

**Environment:** PC, XT, AT or Convertible with 256k, two diskette drives or fixed disk, printer and DOS 2.0 or later.

## **A Departmental Reporting System 6428092 \$355**

**A program that writes programs!**

Sometimes ADRS is called an application generator. What all this means is that you can write programs in ADRS—even if you have no programming talent. True, you won't get some of the really sophisticated programming tools; and purists may blush at your inefficiencies... But the professional, the analyst, scientist or author can analyze several files and print many reports in the time it takes to locate a programmer and express one's concepts.



## Highlights

- It is compatible to the ADRS superset on the System/370 and can up and download files with it.
- ADRS on the S/370 can be accessed when the PC appears as a TTY terminal.
- It provides low cost, simplified data capture, analysis and report generation.
- Menus containing several selectable functions and 'help' screens and scrolling are provided for ease of use.

## Potential Benefits

- Departments that gather or create their own data can record it easily for numerous functions that don't require programming. Thus, professionals and their support staff can analyze data within minutes.
- Ad hoc reports now are desirable whereas before, their cost and delay ruled them out.
- Programming can be delegated partially to non-programmers. The result is that the numerous rough draft reports do not create the heavy cost burden of formal programming.

**Environment:** Requires a PC with 128k and DOS. Optional connection to MVS or VM is via Asynchronous Communications Adapter (1502074).

## **ANIMATOR™ 6871467 \$800**

**ANIMATOR** is a programming tool designed to help programmers develop and maintain COBOL programs.

## Highlights

- Provides interactive debugging capabilities.
- Speed of statement execution is variable and selectable.
- Displays source listing with cursor moving to each statement as it processes.

Because ANIMATOR shows the programmer a logical program path of the statements in process, it provides more information than a listing or a trace program. It shows the statements that actually process, thereby enabling a

programmer to obtain a correct understanding of a program. It also allows the programmer to concentrate on the structure of a program's paths by making it unnecessary for him to evaluate expressions and trace the logical flow of control. This makes the process of amending or correcting a program efficient.

**Environment:** PC, XT or 3270-PC with 128k, two drives or one plus a hard disk, DOS 1.1 or later and Level II COBOL™ page 2-91.

## **Assistant Series™**

This integrated family of productivity products originally was designed to enable users to begin performing productive work after a short period. Easy-to-understand menus stepped novice and experienced computer users through the functions. Now, improvements have been incorporated into every Version 2.0 Assistant Series program, as well as the new Project Assistant and DisplayWrite Assistant, to make the Series even easier to use.

A *Programs Menu* has been designed to allow you to list all of your Assistant Series programs on one menu. This feature provides a common point where you can easily start, or switch between, programs.

An extensive, online help text feature has been added to provide information to guide you in your work. When you select it, help is displayed on the screen you are working on so you do not have to exit to another screen.

To aid you in working with the Series messages, help panels, and book organization have been standardized throughout the family.

A *Quick Save* function has been provided to allow you, at any point, to save and then continue with your work. You do not have to exit to the main menu each time you want to save your information.

### **New Products**

- DisplayWrite Assistant™ is a text editor you can use to create and revise general office correspondence and to exchange information with IBM Office Systems Family products like DisplayWrite 3.
- Project Assistant™ is a project management program you can use to track projects.

### **Version 2.0**

- Writing Assistant™ is the word processor with built-in spell checker.
- Filing Assistant® lets you design and change files and search for and retrieve information in them.
- Reporting Assistant™ organizes and displays the data in your files as detailed or summary reports.
- Planning Assistant™ is the spreadsheet application for budgeting, planning, predicting, projecting, and forecasting.
- Graphing Assistant™ produces charts that help you understand and analyze information.

### **Version 1.0**

- Drawing Assistant™ is a graphics design tool.
- Document Retrieval Assistant™ locates documents stored on disk quickly and easily.
- Mainframe Communication Assistant™ (Version 1.05) uses a direct or asynchronous connection to help you communicate at your IBM Personal Computer with a host computer or another IBM PC.
- Voice/Phone Assistant™ (Version 1.01) lets you use your PC as a telephone recorder and answering machine.

### **DisplayWrite Assistant Version 2.0 59X9958 \$195**

DisplayWrite Assistant is a text editor you can use to create, revise, display, and print general office correspondence that contains graphics, drawings, and reports from other Assistant Series products. DisplayWrite Assistant is the recommended member of the Series for office environments where document exchange with IBM Office Systems Family products is beneficial. It is an ideal word processor for managers and staff professionals who type casually or occasionally. DisplayWrite 3 is the recommended member of the DisplayWrite Series for production and secretarial typists because of its advanced features.

## Print address on envelope from letter

### Spell Checker

- 1 List possible spellings
- 2 Ignore word, continue scan
- 3 Word correct, remember and continue spell check
- 4 Word correct, remember and return to Type or Edit

John Doe  
123 Middle Ave.  
Palo Alto, CA 94306

### Synonyms

Verb  
- board  
- catch  
- capture  
- catch  
- gain  
- get

John Doe  
123 Middle Ave.  
Palo Alto, CA 94306

Dear Mr. Doe,

I am pleased to inform you that we can reschedule your flight as you requested on the phone. You can take one of these routes:

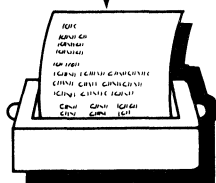
Origin	Stop	To	Dept/Arr
San Jose	New Orleans	Delray	7:00/21:30
San Jose	Dallas	Delray	9:30/ 1:25
San Francisco	Fort Worth	Delray	14:15/ 8:30

### Underlining

### Color

### Typewriter Tab

### Decimal Tab



Printed document  
looks like what you  
see on screen

## Highlights

- Underlining and boldfacing.
- User-selected colors for display and printing.
- Centered text or left and right text justification.
- Ability to switch justification on or off.
- Left, right, center, and decimal tabs.
- Selective indentation from the left margin.
- Move, copy, delete, and reuse block operations.
- Automatic page numbering.
- Allows page breaks to be marked.
- "Go To" function to move directly to a specified page.
- "Find" function to locate a word or phrase.
- Allows you to search for, and replace, text.
- Permits you to repeat a find or search operation.
- Heading and footing text with independent tabbing, centering, left and right margin justification, underlining, highlighting, and color capabilities.
- Subscripting and superscripting.

- Suggests places where words can be hyphenated.
- A built-in spelling checker with a 125,000-word dictionary.
- A built-in synonym dictionary to select synonyms for a specified word.
- Sorts files by names, extensions, sizes, or dates.
- Provides "Cursor Draw" capabilities for horizontal and vertical lines.
- Accepts printer control codes for special print modes and printer specifications.
- User-defined key functions and document format defaults.
- Ability to include Graphing Assistant and Drawing Assistant graphic files.
- Accepts and saves pure ASCII and DisplayWrite Assistant file formats.
- Receives and sends in IBM Revisable Form Text Document Content Architecture format for use with other compatible IBM programs.
- Accepts files saved in Filing Assistant, dBase II, DIF, and SYLK formats.

**Environment:** PC, PPC, XT, AT, PC Convertible, 3270 PC, or 3270 PC AT with 256k, two 5.25-inch or 3.5-inch drives or one drive and a fixed disk, with DOS 2.1 up, or AT or 3270 PC AT with DOS 3.0 up, or Convertible with DOS 3.2.

### **Writing Assistant Version 2.0 6024460 \$195**

Writing Assistant is a word processor you can use to create, store, display, and edit documents such as office memos, letters, articles, financial tables, reports, and even books.

### **Highlights**

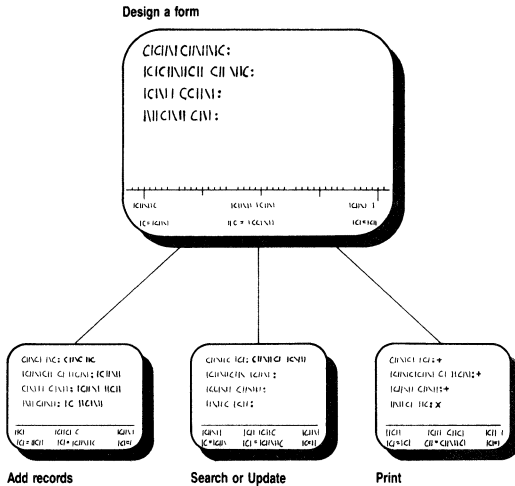
- Underlining and boldfacing.
- User-selected colors for display and printing.
- Text centering.
- Left and right text justification.
- Ability to switch justification on or off.
- Typewriter and decimal tabs.
- Move, copy, delete, and reuse block operations.
- Automatic page numbering.
- "Go To" function to move directly to a specified page.
- Selective indentation from the left margin.
- Heading and footing text with underlining, highlighting, and color capabilities.
- Heading and footing text centering or left and right margin justification.
- A built-in spelling checker with a 125,000-word dictionary.
- A built-in synonym dictionary to select synonyms for a specified word.
- Ability to include Graphing Assistant and Drawing Assistant graphic files.
- Document capacity up to 64k in size if at least 268k of program memory is available for Writing Assistant.
- Accepts and saves pure ASCII code.
- Saves in IBM Revisable Form Text Document Content Architecture format for use with other compatible IBM programs.

- Accepts printer control codes for special print modes.

**Environment:** PC, PCjr, PPC, XT, AT, or PC Convertible with 256k, one 5.25-inch or 3.5-inch drive, with DOS 2.1 up, or AT with DOS 3.0 up, or Convertible with DOS 3.2.

**Filing Assistant Version 2.0 6024457 \$195**

Filing Assistant is a data base manager you can use to design your own forms for entering and storing data. Once the information is entered, you can search for, sort, and print selected information. You can design forms to store information about such things as names and addresses, customer purchases, and parts inventories.



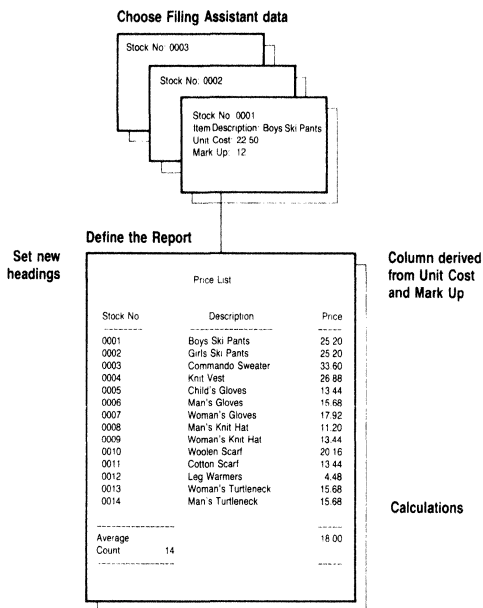
**Highlights**

- Custom form design.
- Single or multiple page forms (up to 32 pages per form).
- Allows form changes after data entry.
- Searches on single or multiple field entries.
- Searches and selects records using exact or partial field matches.
- Performs ascending information sorts.
- "Ditto" function copies information from a previous form's field to the present form's corresponding field.
- Uses a quick-entry function for entering information that is common to two or more forms.
- Calculates values in numeric fields.
- Accepts printer codes for special print modes.

**Environment:** PC, PCjr, PPC, XT, AT, or PC Convertible with 256k, one 5.25-inch or 3.5-inch drive, with DOS 2.1 up, or AT with DOS 3.0 up, or Convertible with DOS 3.2.

**Reporting Assistant Version 2.0 6024459 \$175**

Reporting Assistant is used to design tabular reports from Filing Assistant files. Before printing, it plans the layout of each report page to make the best use of the available space. With Reporting Assistant, you can print such reports as phone lists, personnel rosters, and inventory lists.



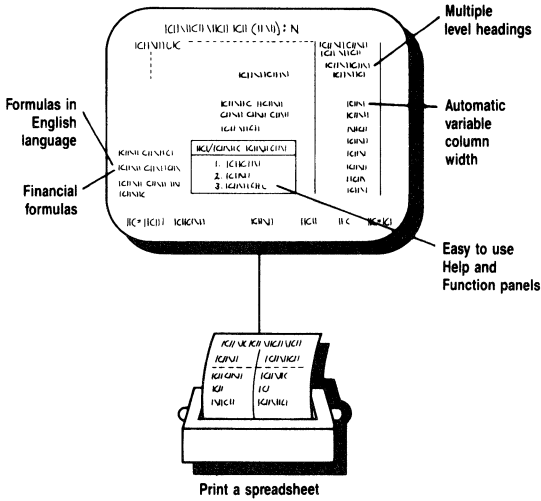
**Highlights**

- Allows up to 20 report columns.
- Permits up to 3 columns to be derived from calculations performed on other columns.
- Stores report designs for future use.
- Performs total, subtotal, count, subcount, average, and subaverage calculations.
- Performs ascending or descending information sorts.
- Performs alphabetic and numeric data sorts.
- Searches on single or multiple field entries.
- Searches and selects records using exact or partial matches.
- Automatically generates report column headings.
- Prints summary reports without listing information from each file form.
- Allows column headings to be changed and stored.
- Accepts printer codes for special print modes.

**Environment:** PC, PCjr, PPC, XT, AT, or PC Convertible with 256k, one 5.25-inch or 3.5-inch drive, with DOS 2.1 up, or AT with DOS 3.0 up, or Convertible with DOS 3.2.

**Planning Assistant Version 2.0 6024461 \$195**

Planning Assistant is an electronic spreadsheet program that is used in numeric planning, tracking, analyzing, and reporting. With it, you can plan and keep such documents as budgets, accounting ledgers, and production cost estimates.



**Highlights**

- Provides column and row editing features like insert, reuse, copy, and delete.
- Performs complex calculations using custom-designed formulas.
- Uses a quick-entry function to duplicate information.
- Creates "views" to make it easier to look at and edit portions of the spreadsheet.
- Automatically recalculates the spreadsheet when entries are changed or updated.
- Permits recalculation function to be switched on or off.
- Allows combining of two or more like spreadsheets.
- Provides a target value function to help in goal-seeking and reverse calculating.
- Allows columns and rows to have longer labels than a single cell (up to 25 characters).
- Provides a special four-function calculator feature for easy calculating while entering values.
- Accepts printer codes for special print modes.
- Accepts and saves DIF and SYLK data formats.

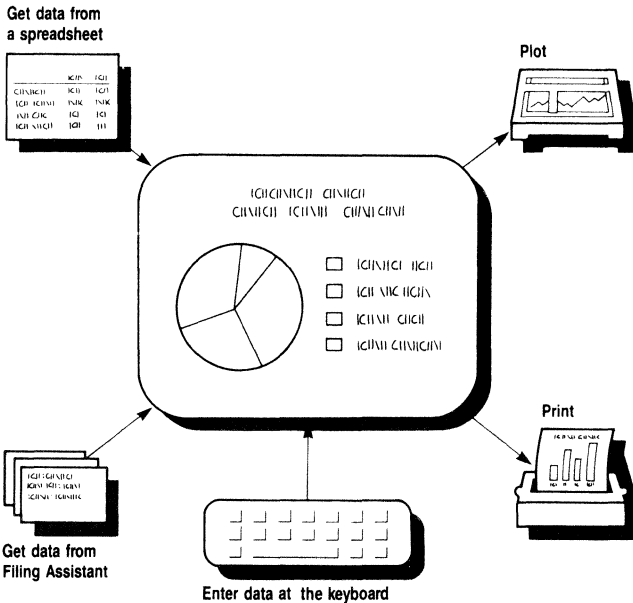


- Contains convenient, ready-to-use home and business spreadsheets.

**Environment:** PC, PCjr, PPC, XT, AT, or PC Convertible with 256k, one 5.25-inch or 3.5-inch drive, with DOS 2.1 up, or AT with DOS 3.0 up, or Convertible with DOS 3.2.

**Graphing Assistant Version 2.0 6024458 \$195**

Graphing Assistant is a graphics program that presents your data from Planning Assistant, Project Assistant, and Filing Assistant files in your choice of bar, line, area, or pie charts. Charts can also be constructed from data entered directly from the keyboard. Using these charts, you can understand and analyze your data more easily. Bar charts are useful for comparing groups of data; line and area charts show trends, relative importance, and changes in data over time; pie charts show quantitative data as parts of a whole.



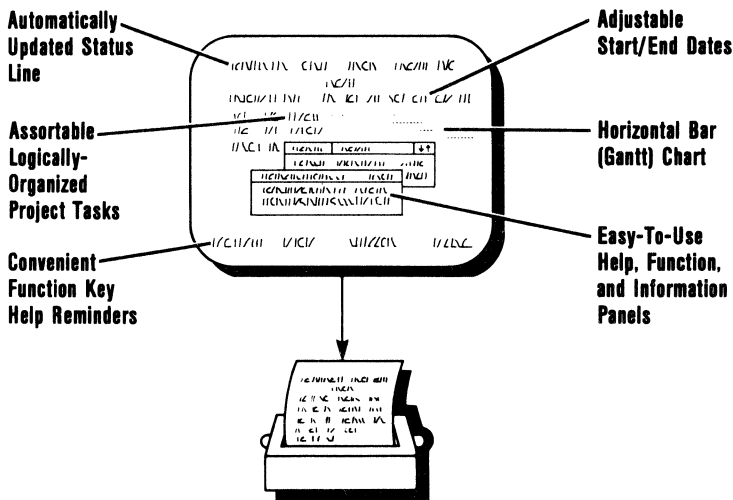
**Highlights**

- Produces bar, line, area, pie, and %pie graphs and charts.
- Mixes up to four bar and line graphs on the same chart.
- Stacks graphs on top of one another to determine how much each graph contributes to the total.
- Displays charts in color or patterns.
- Allows expansion of a chart to fill a page during printing.
- Accepts DIF and SYLK data formats.

**Environment:** PC, PCjr, PPC, XT, AT, or PC Convertible with 256k, one 5.25-inch or 3.5-inch drive, with DOS 2.1 up, or AT with DOS 3.0 up, or Convertible with DOS 3.2.

**Project Assistant 6024462 \$195**

Project Assistant is a project management program you can use to create and track project schedules, costs, and resources. You can display your project using a variety of charts, including a horizontal bar (Gantt) chart, a task chart, a resource level chart, and a Gantt chart "view" of selected tasks. You can also maintain files of calendars, costs, resources, and project relationships.



**Print  
Customized  
Reports & Charts  
Normally & Sideways**

**Highlights**

- Adds, inserts, moves, changes, and reorders project tasks.
- Allows time scales to be changed and entered as hours, days, weeks, or months.
- Permits selection of special task symbols.
- Handles up to 250 tasks per project, depending on the computer system, DOS version, and memory capacity.
- Handles up to 10 dependencies and 5 resources for each task.
- Supports up to 30 different resources for each project.
- Allows critical path calculation to be switched on or off.
- Permits storing of multiple calendar and resource files for later use.
- Links multiple projects together.
- Provides "What if?" analysis for project planning.

- Permits a wide choice of user-definable printed reports and report options.
- Prints sideways (turned 90 degrees from normal) reports, if desired.
- Allows simultaneous item sorts on up to three fields for custom reports.
- Links subprojects and standard sets of tasks (*models*) with the main project's critical path.
- Creates and reads Filing Assistant task information files.
- Permits ASCII files to be added to the end of project charts.
- Accepts printer codes for special print modes.
- Saves projects in DIF and SYLK data formats.
- Supports a variety of plotter options.

**Environment:** PC, PCjr, PPC, XT, AT, or PC Convertible with 256k, one 5.25-inch or 3.5-inch drive, with DOS 2.1 up, or AT with DOS 3.0 up, or Convertible with DOS 3.2.

With PCjr, Project Assistant requires additional memory above 256k to operate with DOS versions above DOS 2.1.

### **Drawing Assistant 6024089 \$169**

Drawing Assistant is a graphics product you can use to create and edit attractive drawings for business, school, and personal use. The use of a "mouse" drawing device simplifies both function selection and drawing. You can use Drawing Assistant to create pictures for a report or presentation, design floor plans, construct colorful charts, and produce interesting diagrams.

#### **Highlights**

- Provides several text fonts with multiple styles and sizes.
- Provides different brush styles and sizes.
- Includes an airbrush function to give a sprayed-on look.
- Includes both total erase and selected erase functions.
- Provides transparent and opaque options when moving parts of a picture around on the screen.
- Offers 30 user-definable fill patterns when using the IBM Color/Graphics Monitor Adapter and 60 user-definable fill patterns when using the IBM Enhanced Graphics Adapter.
- Offers the capability to undo the last operation.
- Allows horizontal or vertical flipping of either an entire picture or parts of a picture.
- Uses either a keyboard, mouse, or joystick as a pointing and input device.
- Provides a zoom capability to magnify and retouch any part of a picture, then return the picture to its original size.
- Allows color inverting of all, or part of, a picture so the picture appears to be a negative of itself.
- Includes both move and copy functions.

**Environment:** PC, PCjr, PPC, XT, or AT with 256k, one 5.25-inch drive, with DOS 2.0 up, or AT with DOS 3.0 up, or Portable or PCjr with DOS 2.1 up and a monitor capable of displaying graphics attached to an IBM Color/Graphics Monitor Adapter or Enhanced Graphics Adapter. An IBM compatible mouse is recommended.

**Document Retrieval Assistant 6024306 \$149**

Document Retrieval Assistant is very useful for keeping track of large numbers of documents. The program uses your search requests, entered as ordinary English words, to locate and retrieve specific documents, which you can read or print. These documents may have been created on a variety of word processors. It can record and retrieve the location of a document, whether the actual document is in your computer files or in a separate file cabinet.

**Highlights**

- Scans your documents and chooses significant words to create its own summary from which your documents can be retrieved at any time.
- Provides a built-in thesaurus so you can retrieve documents containing synonyms of the keywords you specify.
- Permits up to 4000 documents to be stored in each summary file.
- Allows you to create as many summary files as your disk will hold.
- Accepts ordinary English words as keywords to search your files.
- Allows comments to be added to summaries to further identify the contents of stored documents.
- Rates and lists, according to your request, each document retrieved.
- Lets you read or print retrieved documents.
- Lets you save space on a fixed disk by storing only the summaries while the actual documents are stored elsewhere.

**Environment:** PC, PCjr, PPC, XT, or AT with 192k, one drive, with DOS 2.0 up, or AT with DOS 3.0 up, or Portable or PCjr with DOS 2.1 up.

Document Retrieval can be copied to a 3.5-inch diskette and used on 3.5-inch drives with DOS 3.2.

**Mainframe Communication Assistant Version 1.05 6024451 \$199**

Mainframe Communication Assistant allows you to communicate with IBM host computers or other personal computers. This enables you to store information gathered from host computers in Filing Assistant files for use with other Assistant Series members. With Mainframe Communication Assistant, you can also use a personal computer as a terminal workstation for a host computer.

**Highlights**

- Provides either direct or asynchronous communication link capabilities on certain IBM computers with appropriate adapter cards.

- Supports PC-to-PC operation.
- Uses batch files for transferring files between two IBM PCs.
- Permits both uploading and downloading of files between a host computer and an IBM Personal Computer.
- Allows uploading of file changes to a host computer without the need to upload an entire file.
- Connects to full-duplex or half-duplex communications services, such as stock market reporting services or electronic bulletin boards.
- Transfers ASCII, extended ASCII, or binary files.
- Temporarily stores up to 30 screen images of data displayed during a PC-to-host link session.
- Retrieves up to the last five host commands you entered, one at a time, to allow you to reenter or change a command.
- Provides for a variety of modem setups.
- Uses extension routines to extend or enhance the program's basic functions.

**Environment:** PC, PCjr, PPC, XT, AT, or PC Convertible with 256k, one 5.25-inch or 3.5-inch drive, with DOS 2.1 up, or AT with DOS 3.0 up, or Convertible with DOS 3.2.

For asynchronous communications: A modem, modem cable, and telephone line compatible with the host system, and the IBM Asynchronous Communications Adapter or equivalent (for PC, XT, or Portable), or IBM PCjr Adapter Cable for Serial Devices (for PCjr), or IBM Personal Computer AT Serial/Parallel Adapter or equivalent (for AT), or only the IBM PCjr Internal Modem and a telephone line compatible with the host system (for PCjr).

For direct communications: The IBM Personal Computer 3278/79 Emulation Adapter and coaxial direct connect line to host (for PC, XT, or AT).

### **Voice/Phone Assistant 6280741 \$149**

Voice/Phone Assistant turns your IBM Personal Computer, when equipped with an IBM Personal Computer Voice Communications Adapter, into a sophisticated telephone recording and answering machine. It is useful in home and business situations when you must go somewhere but need to be sure you have a record of incoming calls so they can be promptly returned.

### **Highlights**

- Permits voice messages to be recorded and played back at your computer or from a local or remote telephone.
- Allows you to assign identification codes so that multiple "guests" can receive and record messages from remote locations. Unique identification codes let guests listen to messages recorded especially for them.
- Lists incoming calls and your recorded messages and helps you manage them.

- Provides ability to connect more than one telephone line to your computer.
- Gives Voice Help and Voice Error Messages or a series of tones to help you.
- Allows you to record calls using a microphone and to play back messages on a speaker.
- Provides prefix and append message features for adding message information before and after your initial message, respectively.
- Includes a volume control feature for adjusting playback volume.
- Permits you to start and send commands to other programs over the telephone.

**Environment:** PC, XT, or AT with 256k, two 5.25-inch drives or one drive and a fixed disk, with DOS 2.1 up, or AT with DOS 3.0 up.

320k required to operate with synthetic-voice Help function under DOS 2.1 or 3.0. 384k required to operate with synthetic-voice Help function under DOS 3.1.

IBM Personal Computer Voice Communications Option.

## Asynchronous Communications Support

6024032 \$65

This support allows users, with no additional programming, to emulate the asynchronous (start/stop) TTY ASR 33/35 terminals. It provides ease of use and file transfer capability.

### Highlights

- The user may interactively specify:
  - Bit rate (75 bps to 9600 bps)
  - Parity
  - Number of stop bits
  - Line turnaround characters
  - Local or host ECHO/no ECHO
  - XON/XOFF support
- Specifications for interaction with a particular host may be stored for later use, eliminating the need to respecify at each initiation.
- Programs and data may be sent from an IBM Personal Computer to a host system, or received from a host system and placed in a PC file.

- Menu-selectable options:
  - Dow Jones® News Service
  - The Source (service mark)
- Files can be transferred between a PC and most host systems.
- Binary files can be converted to ASCII format (or vice versa) using the utility program supplied.
- Either of two Asynchronous Communications Adapter ports can be used if two asynchronous cards are installed.
- While receiving from the host, there is an option to print data or store it on a file.

In addition to emulating an interactive terminal, there is support for exchanging program and data files with a host. The user has flexibility in specifying TTY ASR 33/35 terminal protocol, for attachment to a variety of host computers. It also provides for communication between two PCs transferring program and data files. Connection is supported to most host systems which support TTY ASR 33/35 asynchronous terminals. Common settings such as parity, stop bits, and bps rates are specified actively at program initiation.

**Environment:** DOS2 on PC or XT. Supports fixed disk. An EIARS232C cable is needed to connect the customer's full duplex modem to the IBM Asynchronous Communications Adapter (1502074). Direct cable connection to a local host computer is supported.

## **Attachment/370 + 6317047 \$300**

**The success** of end user computing depends on a consistent, easy to use interface that permits users to access information wherever it is stored. Increasingly information is stored not only on mainframes, but also PCs and departmental computers as well.

The Attachment/370 programs include one for the PC, and two host programs, Attachment/MVS or Attachment/VM. They provide connectivity between PC and host computer.

- PC users can access the host resources. Data required for reports, business analyses, and similar purposes often is contained in host system files. Without the software to access it, and download it to the PC, the PC user is left entering it from a printout.

- PC users can send store files on the host, enormously extending their storage capacity. Files can be shared with other PCs, eliminating redundant data entry or exchanging diskettes.

Aside from the convenience, flexibility and productivity advantages of sharing the same data, availability of consistent, accurate data is especially important for business analyses and preparation of reports.

## Highlights

- Increases user productivity and satisfaction.
- Easy access to host computer data without the need for knowledge of host systems.
- Screens and menus with consistent formats.
- Online help text to improve usability.
- Formatting of files sent between a host and PC to suit application needs.
  - Text copy converts text data for use at the receiving computer. Text data includes memos, reports, etc.
  - Binary copy does not convert the data if it is PC data temporarily stored at the host for future use or for a different PC.
  - Formatted copy converts the text or data on a field by field basis to whatever format you require.
- Using file definitions at the source and the target systems, you can create a subset of the source file by transferring only those fields of interest. You also can rearrange the sequence of the fields in the output records. Additional subsetting is possible by specifying a beginning and an ending key (for key sequenced files) or by specifying the maximum number of records to be transferred along with a starting record number.
- You can store on a virtual disk any information you typically store on hard disk or diskette. Because virtual disks are host system data files, they are backed up on a regular basis, which ensures data integrity, and subjects them to host system security features such as RACF.
- Shared virtual disks and host files eliminates repetitive data entry and file exchanging.
- Improved office communications via message exchange with other users of the Attachment programs.
- User ID and password control access to host system data.



## New Features

- Supports the AT, 3270-PC (Model 6) and 3270 PC-AT
- Supports two user environments
  - Professionals can use Attachment/370+ along with the Personal Decision Series.
  - Users requiring the features of Attachment/370+ but not the Personal Decision Series may use the Extend/370 interface, which utilizes the EZ-VU Runtime Facility.

**MVS Environment:** Attachment/MVS Version 1.1.1 (5665-336) plus:

- ISPF 2.1 or later (5665-319)
- ACF/VTAM Release 1.1 or later (5735-RC2)
- ACF/NCP/VS Release 1.0 (5735-XX9) (for remote host terminals only)

or for VM: Attachment/VM Version 1.1.1 (5664-290) plus

- VM/SP Release 3 or later (5664-167)
- ISPF 2.1 or later (5664-282)

PC requirements are:

- Main storage required is determined by adding the storage requirements for each of the following:
  - The user interface to be used, e.g., Extend/370 requires the EZ-VU Runtime Facility.
  - The level of DOS to be used.
  - The level of emulation program to be used. Emulation program sizes ranges from approximately 21k to 23k.
  - 78k for the Attachment application.

For example, the Attachment/370 Edition interface requires the Personal Decision Series Data Edition product which requires 230k. In addition to that, DOS 2.1 requires 24k, making the minimum machine size 384k. 384k is also the minimum machine size when using the Extend/370 interface.

- Either two double-sided diskette drives or a combination of a double-sided diskette drive and a fixed disk.
- A monochrome or color monitor capable of displaying at least 24 lines of 80 characters each.
- The IBM 3278/79 Emulation Adapter (1602507) or the Advanced 3278/79 Emulation Adapter (8665789).
- One of the following depending upon the PC model:
  - IBM 3278/79 Emulation Control Program, Version 1 (6024134) for the IBM PC or PC/XT.
  - IBM 3278/79 Emulation Control Program, Version 2 (8665780) for the IBM PC, PC/XT or AT.
  - IBM PC 3270 Emulation Program, Entry Level (5875-MMA Feature Code 8975) for the IBM PC, PC/XT or AT.
- One of the following:

- IBM PC Disk Operating System (DOS), Version 2.1 (6024120) for the IBM PC or PC/XT.
- IBM PC DOS, Version 3.0 (6024180) for the IBM PC, PC/XT or AT.
- IBM PC DOS, Version 3.1 (6024211) for the IBM PC, PC/XT or AT.
- A printer if output is desired.
- One of the following:
  - IBM Personal Decision Series Data Edition (6410936) (required only if other Personal Decision Series products are being used with Attachment/370+. The Attachment/370+ documentation describes this user environment as Attachment/370 Edition.)
  - IBM EZ-VU Runtime Facility (6316969) (required only when using Extend/370).

The 3270-PC and 3270 PC-AT requirements are:

- The amount of main storage required by the application and DOS plus 232k of main storage. A minimum 512k storage size is required when using DOS 3.1. Different levels of the 3270PC control program also require varying storage sizes depending upon the level used.
- Diskette or fixed disk drives, printer, and monitor as described under the PC.
- IBM PC Control Program, Version 1.22 (1837434), Version 2.0 (6423236) or Version 2.1 (6217355).
- PC DOS Version 2.1 or 3.1 for the 3270-PC or Version 3.1 for the 3270 PC-AT.
- Personal Decision Series Data Edition or IBM EZ-VU Runtime Facility as described previously under PC, PC/XT, and AT software requirements.

## **APL Data Interface 6410978 \$355**

This program is functionally similar to APLDI for VM and MVS. It allows the user to direct an inquiry to large files, which can be on a host MVS or VM. Data can be extracted selectively and processed locally. Files also may be uploaded to the host.

### **Highlights**

- Complex inquiries may be formulated by the APL user.
- The result of the inquiry may be directed to a printer or a DOS program.
- DIF® format is supported.
- Data may be exported to ADRS/PC.
- Extended Support is available for an annual subscription fee; details are enclosed with the program.

## Potential Benefits

- Non-programming professionals can formulate many ad hoc and simple inquiries without need for a programmer. This results in saving the time of both.
- The APL and ADRS/PC user save time due to the reduced complexity of their environment.

## Environment

- PC or XT with 192k plus DOS and two drives (or a hard disk).
- 8087 Math Co-processor.
- APL (6024-077).
- Color/Graphics Monitor Adapter (1504910) and 5153 or equivalent.
- Asynchronous Communications Adapter (1502074) is optional—for up/download to MVS or VM.

## Personal BASIC™ 6871354 \$150

Personal BASIC is an interpreter designed primarily for the beginner, student, hobbyist and home computer user.

## Highlights

- Comprehensive language reference manual and tutorial
- Immediate syntax checking
- Direct or instant calculation mode
- Informative diagnostic messages
- Effective error trapping
- Single step breakpoint setting
- Statement number tracing
- Variable tracing
- User defined functions
- CP/M®-style command keywords

A friendly, interactive environment makes Personal BASIC ideal for the first time computer user. Enhanced program development, testing and debugging aids make an excellent tool for programmers of all levels of experience. This program is compatible with all Digital Research operating systems and IBM BASICA except graphics commands.

**Environment:** PC or XT with 128k, one drive and CP/M-86 or Concurrent CP/M-86™

## **BASIC Primer 6024053 \$65**

The Primer is an interactive tool that teaches BASIC programming skills. It's an educational workbook on the screen. Simple interactive exercises introduce the editing power of the Personal Computer keyboard. More difficult concepts are gradually added, with frequent reviews. Basic Primer teaches the most useful BASIC statements and can be used by students of many ages.

BASIC Primer has step-by-step illustrations showing how to handle diskettes and set up the program. Once the program is loaded, directions are given on the screen. The skill level is gradually increased from beginning BASIC through exercises teaching more complex concepts.

BASIC Primer combines keyboard practice with simple programming exercises in a positive learning environment. Reviews and encouraging messages are distributed throughout the lessons. Simple words and pictures make this program ideal for teaching the BASIC programming language to young students. Very young children may need adult assistance.

### **Highlights**

- No previous computer knowledge required.
- Introduces SOUND, COLOR, LOCATE, INPUT, and CHR(x) statements, as well as the more common BASIC statements, such as LET and PRINT.
- Teaches programming tasks like alphabetizing and keeping checkbook records.
- Provides practice using data files and saving programs.
- Lessons are written in easy-to-follow language.
- Uses automated graphics to illustrate FOR-NEXT and IF-THEN concepts.

**Environment:** Requires a PC or XT with 64K, one drive, matrix printer and DOS1.

# BASIC Program Development System

6024046 \$130

The System is a program development tool for BASIC programmers. It contains four utilities:

- Text File Editor
- Structured Preprocessor
- Formatter
- Cross-Reference

With these utilities, programmers can write, edit, and preprocess programs. They also can format a program and produce a cross-reference listing of the variables, the statements, and the keywords.

The System allows programmers to write structured code, which uses structured macros and labels instead of line numbers. Structured code is more readable than unstructured code, and programmers can use structured to make their programs easier to modify and correct.

The Programming Development System consists of two programs. One program contains the Text File Editor and the Structured Preprocessor. The other program contains the Formatter and the Cross-Reference. To use the Text File Editor and the Structured Preprocessor, users load the TFE file. To use the Formatter and Cross-Reference, users load the FRMTBAS file. The TFE program gives users a command display on the first screen that displays the commands and their abbreviations. In addition, the TFE file provides users with online help for all commands.

The FRMTBAS program prompts users for the necessary information, listing the options on the screen and displaying the default values for each option.

## Highlights

- Offers convenient editing of source files.
- Uses labels instead of line numbers.
- Uses structured macros.
- Executes complex editing procedures with a single command.
- Converts unstructured programs to a structured format using a single command.
- Produces a cross-reference listing of the statement numbers and the lines referencing those numbers.

- Produces a cross-reference listing of the variables and the keywords and the lines referencing those variables and keywords.
- Produces a formatted listing of a program.
- Program supports the IBM Monochrome or Color Displays as well as any 40- or 80-column color or black/white display that is compatible with the IBM Personal Computer.

**Environment:** Requires: PC with 96k, one drive, DOS1 or later, or BASICA.

## **Bridge Break 200 6276605 \$25**

**Mike Lawrence**, two-time world champ invites you to play up to two hundred hands. He shows you the bidding and the hands for North and South. you are the declarer as South while the PC plays as East and West. Your goal is to make the required number of tricks. This program is authored by Jas Jain and Mike Lawrence.

### **Highlights**

- Select the Random Hands option to play hands at the average, advanced or expert levels, or all levels.
- Choose the Selected Hands option to play a specific hand number from one to two-hundred.
- Display East-West hands (optional).
- See the dealer's hand, the bidding and the vulnerability of each side.
- Play hands or use the Autoplay option.

This program uses a preprogrammed strategy similar to the strategy of an average to expert player. Deals have a complexity rating from low to high, indicating average to expert level of skill. Choose the Autoplay option and the PC will play all four hands and display valuable onscreen explanations by Mike Lawrence.

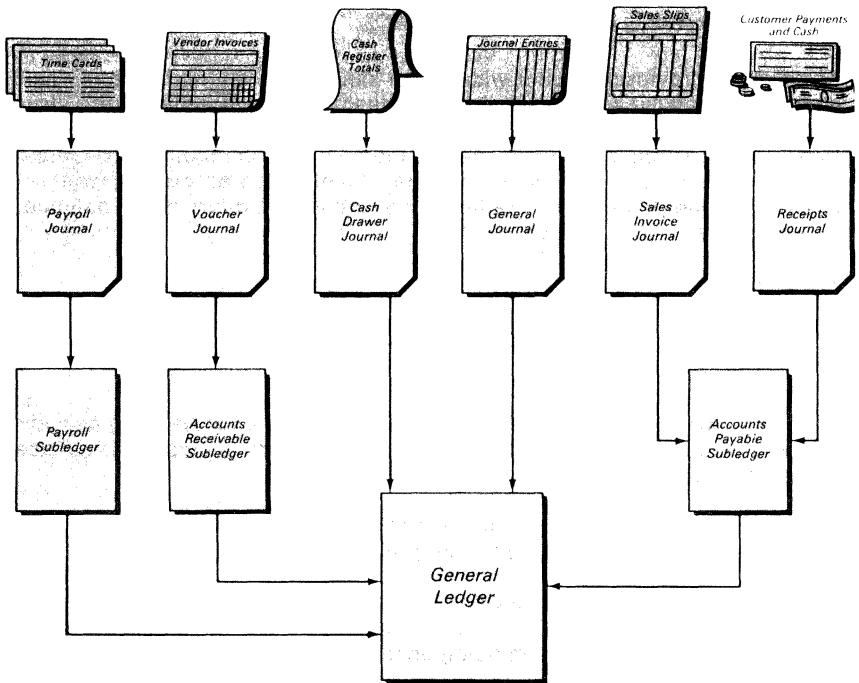
**Environment:** PC, XT, PPC, PCjr or AT with 128k, one drive and DOS 2, 2.1, 3, 3.1

## Business Adviser

If your transaction volumes are heavy or you need highly-detailed, complex or sophisticated reporting, this top of the line package is your likely choice. The Business Management Series has similar, though less, function and complexity at a lower price.

This is a high-function, high-volume, fixed-disk accounting system. It can be installed on a single PC and allows multiple users to share data through the PC Local Area Network or Token-Ring Network.

The Adviser is based upon an advanced software concept—*seamless architecture*. This architecture tends to eliminate the boundaries between applications. Payables, receivables, payroll and other sources of financial information concerning your company are pooled into a single, accessible source. So, data is readily available and shared across the enterprise.



This advanced design produces a variety of innovative, user-oriented features. Among these are windows that allow you to view several different types of data on your screen at the same time, the ability to suspend work in progress on one task while you initiate another, online help, tutorial and reference manual text.

This series is composed of six accounting applications: General Accounting, Accounts Payable, Accounts Receivable, Payroll, Inventory Control and Order Entry. All are built around the General Accounting Edition, which is prerequisite to the other accounting applications in the series.

A seventh application, the Information Management Edition, serves as a data base productivity tool. This application uses data from the accounting applications in the Business Adviser or it can operate standalone.

The Network Extension Edition completes the Business Adviser. When installed on a remote PC connected to a central server on the PC LAN or the Token-Ring Network, the features and functions of the Business Adviser applications are extended to the remote computers. One Network Extension Edition is required for each remote PC.

In a standalone or network environment, the Business Adviser is the most advanced high-function, high-volume accounting system offered by IBM.

### **General Accounting Edition 6466988 \$995**

This Edition provides the user with a high function general ledger and six special journals for entering business transactions. In addition, subsidiary ledgers for accounts receivables, accounts payable and payroll are built into General Accounting, which may be the only Edition required for some businesses. General Accounting provides double entry accounting with automatic offsetting entries. General Accounting also offers a trial balance, balance sheet and income statement.

### **Highlights**

- Prerequisite for the other Editions in the series, except for the Information Management Edition.
- Allows data entry into multiple general ledger open accounting periods and years (up to 53 periods/year, number of years limited to disk space available).
- Specifies the number of subledger periods per general ledger period in order to separate and track sales and purchases.
- Allows manual entry of checks.
- Prevents information from being posted to a closed period.
- Specifies the number, length and ending dates of accounting periods in the fiscal year with flexible financial calendar.
- Provides an income statement, trial balance and balance sheet.



- Provides “flexible financials” for customizing financial statements and spreadsheets from general ledger data.
- Maintains and prints
  - General Journal
  - Cash Drawer Journal
  - Sales Invoice Journal
  - Receipts Journal
  - Voucher Journal
  - Payroll Journal
  - General Ledger
  - Customer Ledger
  - Vendor Ledger
- Prints reports that compare current and past activity and finances.
- Prints customer statements that list current transactions and the balance due.
- Customizes a general ledger chart of accounts, or uses the chart of accounts provided with the system.
- Automatic account prompts can be assigned for the general ledger accounts used most often when entering data.

**Accounts Payable Edition 6466989 \$995**

This Edition provides information that will assist the user in paying bills on time, tracking available discounts and taking advantage of credit terms.

**Highlights**

- Creates automatic vouchers for payments made on a regular basis.
- Creates vouchers such regular invoices, credit memos and deduction memos.
- Prints the Voucher Journal for open, deleted and paid vouchers, as well as for vouchers on hold.
- Displays detailed vendor information with the Vendor Status and Vendor Ledger reports, and the Vendor List.
- Expands General Accounting payables and subledger vendor account information to include credit terms and year-to-date totals.
- Prints

Payables Audit Report

Voucher Activity Report  
Check Activity Report  
Vendor Status Report  
Payables Aging Report  
Cash Requirements Report  
Check Selection Report  
Check Distribution Report

- Prints checks by voucher, vendor, available discount or a specified date.
- Records handwritten checks and voided checks.
- Integrates with other Editions in the Business Adviser.
- Requires the General Accounting Edition.

### **Accounts Receivable Edition 6466990 \$995**

This Edition assists the user in organizing customer accounts, calculating finance charges and producing customer statements. This application provides a wide selection of detailed customer analyses containing both current and historical account activity. The user may choose either balance forward or open item accounting.

#### **Highlights**

- Requires the General Accounting Edition.
- Handles customer accounts as either balance forward or open item.
- Gives discounts at time of sale or to reward prompt payments.
- Calculates finance charges for all customers. Waives charges for selected customers.
- Maintains different billing cycles for different groups of customers.
- Specifies payment terms and credit limits for each customer.
- Assigns general ledger accounts automatically when you enter the customer number during data entry.
- Maintains multiple open accounting periods.
- Prints invoices as they are entered or before closing the general ledger period for receivables.
- Applies customer payments to specific invoices or to all outstanding invoices for open item customer accounts.

- Enters repetitive or automatic charges to customer accounts with a single command.

- Prints

- Receivables Audit Report
- Receivables Aging Report
- Customer Category Analysis
- Customer Analysis
- Billing Cycle Analysis

- Prints the following

- Customer Adjustments
- Sales Invoice Journal
- Receipts Journal
- Customer Ledger
- Finance Charges
- Automatic Charges
- Receivables Account Distribution

- Prints schedules and lists of payment terms, billing cycles and automatic charges.
- Prints customer statements for active accounts, all accounts, past due accounts or selected customer accounts.
- Integrates with other Editions in the Business Adviser.

### **Payroll Edition 6466991 \$995**

This Edition performs calculations, prints checks and W2s, distributes expenses and maintains detailed pay and tax information for employees for fifty states. The user may select from over twenty different payroll/personnel reports and analyses which may be printed or displayed on the screen. The tax tables within this Edition are not automatically updated when taxing jurisdictions change their schedules. IBM offers a Payroll Tax Table Service to update tax tables as federal, state and selected taxing jurisdictions tax table changes occur. The initial payroll tax table is distributed at no charge upon registration (as specified in the documentation) of this Edition.

### **Highlights**

- Processes employer-sponsored IRA accounts and 401(k) accounts.
- Refers to tax tables for 58 separate taxing districts.
- Supports choice of one of three compensation methods when setting up employee accounts.

- Calculates hourly rates from five formulas.
- Sets up commission in four varying schedules.
- Supports up to twenty deductions.
- Supports up to six deductions per employee (where applicable).
- Withholds FICA and FIT from each employee, prints a federal remittance for the total amount of FICA and FIT withheld.
- Processes payroll with or without printing checks.
- Distributes wages to general ledger accounts automatically or manually.
- Prints
  - Payroll Audit Report
  - Earnings Report
  - Employee Information
  - Employee Pay Information
  - Disability Insurance Report
  - Tax Information Report
  - Commission Report
  - Deduction Report
  - Pay Analysis Report
  - Quarterly Wage Statement
  - Quarterly Payroll Tax Statement (941 Report)
  - W2s
- Prints the following
  - Employee Adjustments
  - Standard Check Registers for Payroll
  - Payroll Check Register
  - Payroll Journal
- Prints schedules and lists of employees, department names, commissions, deductions and SUTA wage bases.
- Updates all month-to-date, quarter-to-date and year-to-date information for each employee.
- Handles tip reporting.
- Integrated with other Editions in the Business Adviser.
- The use of payroll tax table update service is necessary to keep the payroll tax tables current since the tax tables of the Payroll Edition are not automatically updated.

## **Network Extension Edition 6466992 \$245**

This Edition allows a network workstation user to access and use the Business Adviser programs and data files on the server in the PC Local Area Network or the Token-Ring Network.

### **Highlights**

- Permits an additional user to share accounting information and enter data for one or more companies.
- One Server PC shares programs, data and printers with up to eight remote PCs on a PC LAN or Token-Ring Network, each using a Network Extension Edition (only eight Business Advisers may be active at one time).

## **Inventory Control Edition 6466993 \$995**

This Edition can cost inventory by FIFO, LIFO or average cost. It assists the user in writing purchase orders, recording merchandise receipt, preparing price labels and handling sales using regular and discounted pricing. It tracks low balance items and creates back orders. The user may select from over twenty reports including: price lists, low balance items and departmental reporting.

### **Highlights**

- Requires the General Accounting Edition.
- Offers a choice of three inventory accounting methods—LIFO, FIFO or average cost.
- Supports taxable and nontaxable items.
- Allows base price and four alternate prices or percents.
- Allows the user to “freeze inventory” for taking a physical inventory while continuing to sell all inventory or by warehouse.
- Supports 99 warehouses with consolidated reports available.
- Allows warehouse transfers with one transaction.
- Supports substitute items.
- Prints price labels (for all or selected items).
- Supports maintenance of sales and cost amounts.
- Allows average sales per period calculations.
- Provides model records for file maintenance.
- Handles multiple open periods.
- Supports item inquiry.
- Allows automatic posting and updating to General Accounting and Accounts Payable Editions.
- Handles exception reports
  - Zero or negative quantity on hand
  - Above maximum or below minimum cost deviation
  - Superseded items
  - Selection of specific reports with criteria at execution time

Stock status report with select options

- Integrated with other Editions in the Business Adviser.

### **Order Entry Edition 6466994 \$995**

This Edition allows the user to enter orders and update inventory, accounts receivable and general ledger with sales information.

#### **Highlights**

- Requires the General Accounting Edition.
- Supports entry and printing of sales orders for inventory items
  - Backorder processing.
  - Converting estimates to sales orders and converting stored estimates to orders.
  - Optional or broken case surcharge.
  - Three sales taxes plus FET, salesman data and discount calculations.
  - Allows conversion of sales orders to invoices.
  - Supports both prebilling and post billing with no allocation, semi-allocation or automatic allocation.
  - Provides for billing of one-time customers.
  - Allows for billing of non-inventoried items.
  - Searches other warehouses for an item not in originally specified warehouse.
  - Allows credit checking.
  - Maintains recurring invoices.
  - Provides online inquiry to customer and order/invoice status.
  - Supports 999 jurisdictions.
  - Allows customized customer accounts for
    - Multiple subaccounts per customer
    - Separate billing by subaccount
    - Multiple billing and shipping addresses
  - Provides print selection criteria for printed reports and sales analysis by customer, salesman and region
  - Automatic posting and updating to General Accounting, Inventory Control and Accounts Receivable Editions.
  - Integrates with other Editions in the Business Adviser.

### **Information Management Edition 6466995 \$525**

This Edition is an extension to the accounting Editions. The user may add fields to existing files using extension files, and design new data entry screens. It can be used to design new reports using all the information in the accounting fields and information in other files that the user may have created. It may be used as a standalone data base program.

## Highlights

- Provides the user with:
  - Direct access to the system to assemble new, customized reports from all accounting data in the Business Adviser
  - Additional control over the collection, management and reporting of information within the Business Adviser
  - File import/export capability using ASCII and DIF format files
  - Integration with the Business Adviser accounting editions
- Supports data file design for:
  - Field types selection
  - Field length definition
  - Decimal point position
  - Required entry specification
  - Lower/uppercase conversion
  - Calculation assignment
- Allows data manipulation
  - To search on any combination of fields
  - To search based on formula
  - Using ascending/descending keys
  - Using as many as eight keys with eight segments per key
- Allows the design of data entry screens with freeform field arrangement and set cursor movement.
- Allows definition of screen elements such as prompts, fields, titles, function keys, video (reverse image, blinking, etc.).
- Provides customization of field elements such as dates, social security numbers, time and other numeric fields.
- Uses screens for data entry and manipulation.
- Supports design and printing of reports by using:
  - Customized formats
  - Customized printing
  - Statistical functions such as count, sum, average, percent and variance
- Provides limited text processing.

**Environment:** PC, XT or AT with 384k (512k recommended), fixed disk, printer and DOS 2.0 or later.

## **Business Forecasting Model™ 6092637 \$100**

The Model is designed to provide a way of using the VisiCalc® program for generating numbers needed to manage a business better.

### **Highlights**

- Provides the capabilities of VisiCalc program in seven interrelated templates for business analysis and planning.
- Generates the financial reports and information most needed for business analysis and planning.
- Automatically transfers data from one worksheet to another.
- Instantly shows the effect of any change in data, allowing the user to ask what-if; and investigate alternatives at the interactive display.
- Displays or prints out reports.
- Guides the user step by step from start to finish.
- Provides for worksheets to be customized for specific user needs.

The VisiCalc Business Forecasting Model has a set of seven interrelated VisiCalc templates that provide a user with financial information for business analysis and planning. With these templates, a user can produce Income Statements, Balance Sheets, Statements of Cash Flow, Financial Ratios, Sales and Cost-of-Goods Summaries for up to 15 products, Salary Reports (including commissions) for up to forty employees, and Assets and Depreciation Schedules using straight line depreciation.

A user can change a number on a worksheet and the program recalculates all the numbers and shows the new results. This allows the user to analyze the impact of decisions before making them. Another important benefit of the VisiCalc Business Forecasting Model Program is it's ability to transfer data from one worksheet to another.

This saves the time and tedium of data re-entry, and reduces the chance of error. Whether a user is summarizing actual results for analysis or making plans for the future, the Business Forecasting Model helps prepare the numbers.

**Environment:** Requires 64k, one drive, DOS 1.1 or later and VisiCalc. Business Forecasting Model interfaces with VisiCorp DIF™ files.



## **Business Management Series**

The Series is an innovative, state of the art architecture of accounting functions, operations applications and basic management tools. All members of the Series are designed to be used with the others; yet each can be used independently—it is completely modular, allowing you to use any one program or any combination.

Each program member of the Series performs in a specified functional area. It also shares and updates data from the other members of the Series. This important architectural scheme allows data to be verified and shared. It eliminates the time consuming and error prone manual posting of repetitive journal and ledger entries. Each program member supports multiple companies so you can record and report on a company-specific basis.

Data captured or calculated and filed may be output to the data base of the companion Personal Decision Series. This encourages you to implement your ideas using professional-grade analytical and presentation tools. For example, export the contents of Inventory Accounting to the Personal Decision Series data base. Whereupon it can be combined with native, existing data... to produce a cash flow spreadsheet using Plans. Then build a presentation with illustrations composed by Graphs. You can design additional inventory reports using Reports+ and extract selected inventory fields for merge into letters using Words. That's integration! The Series is designed to respond to a more demanding volume of data entry and sophisticated analysis and financial reporting need than the Accounting Assistant Series.

You can maintain records for several companies as easily as for one. You can establish a different accounting period for each company.

The Series performs many of the same tasks as the Accounting Assistant Series, but to a higher level of accounting function. For example, a variety of reporting options allows you to format reports to many levels of detail.

There are seven application program members; each has one associated Training Edition. Two Extension Editions are available to connect your Business Management Editions to the Personal Decision Series. They can be licensed a la carte or in combinations.

- General Ledger Edition is at the level of 'generally accepted accounting principles' (GAAP) standards.
- Accounts Payable Edition manages outstanding debt.
- Accounts Receivable Edition manages money owed by debtors.
- Payroll Edition provides input, calculations, checks, statements and reports.

- Order Entry and Invoicing Edition looks up, records incoming orders, prints pick list and invoices.
- Inventory Accounting Edition records and updates status and prints analysis reports.
- Financial Extension Edition connects General Ledger, Accounts Payable and Payroll to the Personal Decision Series.
- Accounting Extension Edition connects Accounts Receivable, Inventory Accounting, Order Entry and Invoicing to the Personal Decision Series.
- Local Area Network Access (LANAE) Edition shares data among the members of an IBM PC Local Area Network.

**Environment:** Requires a PC, XT, XT/370, PPC, 3270-PC or AT with 256k (320k for Order Entry, Invoicing or DOS 3.0 or later), hard disk, matrix printer and DOS 2 or later. Specific and detailed requirements are obtainable in Programming Announcement 284-371 from your IBM Branch Office. Or you can request the free brochure GH20-9013 on the Order card in back.

**A Training Edition** is available for each of the six application Editions. These are structured computer based courses. And definitely are the best means to learn the operation of each Edition. You can make mistakes and learn to correct and prevent them without risk of damage to a live file.

Each course teaches through a series of Main Idea presentations, colorful graphic demonstrations (color is optional) and practice exercises. During the Main Idea you request additional detail and explanation about the ideas presented. There are lots of 'help' screens to offer tips on common errors and bad habits and resolving common 'stuck' situations. The exercises simulate the application program member's operation. You watch as your personal tutor performs each single task. Through the Demonstration Window you view a step by step explanation of the components of the task and related considerations. Then your tutor monitors as you try to repeat the procedure. If you err you have guidance to the correct solution. You build complex experiences from simple experiences—as well as self confidence. You may repeat exercises until you feel comfortable. Or, skip around to brush up on rusty spots. A bookmark feature is handy so you can be interrupted, change PC jobs, and return to the same point.

Required configuration is similar to the Application Editions; but the Training Editions will run with 192k and DOS 2.0. They are priced at \$95 each.

Program-related defect service is available for ninety days after receipt, but not beyond the Service Termination date specified in the Program Announcement 284-371. Extended Support is available for a subscription fee; details are included with the product.

**The potential benefits** and value areas lay in the numerous repetitive applications that are common to most small to medium enterprises (business and otherwise). Additionally, there is value since the user does not have to integrate several dissimilar specialized application packages. Finally, the analyst, executive and professional may extend the bread and butter efficiencies to include the state of the art 'decision support' tools offered by the Personal Decision Series. Security measures at the application level allow sensitive data such as payroll and general ledger to be restricted to users with a password.

When your accounting needs call for an integrated system that is moderate in price and function, the Business Management Series may be just the solution you're looking for.

When evaluating this series you should consider the Accounting Assistant Series and the Business Adviser as alternatives—for lower and higher function and corresponding price.

Order from your IBM Branch Office, IBM authorized dealer or mail the Order card (first one in back). If you have questions about the Order card call IBM Direct at 1-800-IBM-2468 and ask for PC Software Department; you can read your card and place the order by phone.

## **Business Management Series**

**General Ledger Edition** 6410950 \$775

If you can't calculate an accurate profit of your business—and do it very quickly, you are definitely running in the dark; and likely in the red too. This program contains the fundamentals for managing profit, assets, liabilities and their constituents. You can tailor a variety of supplied reports including a general journal and five special journals. And use them for sales, purchases, disbursements or other repetitive account change transaction. GAAP standards observed throughout.

### **Highlights**

- Journal entry may be from the keyboard, interactive; or it can be received directly as batch totals or individual entries from the other programs of the Series. You may create your own special journals. Each journal is numbered uniquely to maintain an audit trail. Upon entry the account number is verified by the system and debit to credit balance is assured. Entries are created automatically to close revenue and expense accounts with net profit posted to retained earnings. At any time a detail listing of every transaction processed to date may be printed in an Annual Ledger.

- The General Journal consists of a collection of (general) journals for each posting date. An Encumbrance Posting List and a Recurring Journal are printed for these special transactions. For each transaction, the source is documented and the target Ledger account numbers are posted. Recurring entries are supported, based on your calculations or account balances.
- A standard balance sheet and income statement is generated automatically or you can design your own. We provide six predefined Quarterly Statements whose formats are monthly, quarterly and comparative spread.
  - Twenty-nine different types of data can print in any column (e.g. budget, last year, variances). You can print each type of data in up to six columns on an income statement.
  - Rounding to nearest dollar is supported.
  - Up to four footnotes per page and ninety-nine per statement are allowed.
- Your balance sheets can include income for each accounting period. So, you don't have to print an income statement every time you want a balance sheet. You can select the traditional three column balance sheet plus one that includes comparative figures.
- Profit calculation for each of one to thirteen periods is maintained. This allows balance sheet printing for any current period. Posting is allowed to any of thirteen previous, current or future periods of the accounting year.
- The previous year history is archived for comparative statements.
- A suggested chart of accounts is included; or you can use your present one or a new one. The Chart shows all accounts in the General Ledger with their account type and description. It is often used to prepare or analyze journal entries.
- Year-end closing is automated. You cannot close out of balance. Comprehensive controls, checks and balances and audit trail is provided.
- Journal entries are generated automatically to close revenue and expense accounts; with net income posted to retained earnings.
- The Trial Balance lists current status of each General Ledger account as a preview to the system's financial statements. Totals for each account type are listed and net income for the period is calculated. You can request this report anytime, in three formats.
  - Year-to-date lists balances for each account through the date specified.

- The Worksheet lists period-to-date and year-to-date balances and has a column for noting those adjustment journal entries that you will need to enter.
- A Comparative format contrasts the budgeted and prior year balances to current equivalents.

**Environment:** PC with 256k (320k for DOS 3.0 or later), a hard disk matrix printer and DOS 2 or later.

*The Financial Extension Edition* (page 2-86) will connect General Ledger to the Personal Decision Series. Here you can design your own special reports, illustrate with charts and graphs, build financial models and merge your data into letters and memos.

The General Ledger Training Edition is described in the Series overview. It is recommended for new installations, new employees and for users not familiar with accounting on a computer. It is priced at \$95; order 6410959.

## **Business Management Series**

### **Accounts Receivable Edition 6410952 \$775**

This program is designed to shorten your collection period and reduce bad debts. It provides a comprehensive management of a significant asset. It should reduce overall cash flow float expense. By furnishing a current, quality analysis of funds owed, the system synchronizes cash availability to cash application.

Collection delays are reported for analysis. Processing payments is efficient. Customers receive accurate, professional statements. You can request reports about cash availability instantly on demand.

The system will share data with the Order Entry and Invoicing Edition—credit limits are a good example. In turn, Order Entry will provide the source transaction, thus saving a second typing of an invoice.

### **Highlights**

- Open item or balance forward processing is selectable.
- Automatic aging is provided for:
  - Current plus four age periods past.
  - Future aging and dating.
  - Specifiable age periods to fit your requirements.

- Inquiry is provided to invoice and payment records.
- If you're not sure of the age period or invoice to which a payment should apply, display debtor's invoices and select the proper period or invoice.
- Sales totals by customer are updated automatically.
- Delinquency notices show the amount due for each age period and the total. They are printable on demand.
- The Customer Name and Address list includes name, address and phone number.
- Entry of miscellaneous cash such as vending machine receipts is provided.
- Partial payment and overpayment is allowed and processed.

*The Accounts Receivable Ledger* reports how much each customer owes. It shows the total plus separate amounts for each age period. Use this as an aid for collection and payment (remittance) application and also for answering customer inquiries. If you factor and don't use a monthly accounting period, the system will print a ledger that ages monthly—for your bank's use. The ledger can be a summary, detailed or totals-only report. It can be arranged by customer number, account balance or age period balance. You can limit the report to customers with a minimum account balance, to a range of customers or to a range of amounts within specific age periods. Or you can simply print totals only.

*Statements* designate the amount owed by age period. They may be printed at the end of an accounting period or deferred. They have a tear strip that is returned with the remittance. The strip containing data to make interactive payment application accurate. Statement options:

- Print (or not) if current sales activity but zero balance.
- Print (or not) if inactive and zero balance.
- Print (or not) balance dues.
- Print selected customers, debtors.
- Print current period.
- Defer printing optionally.
- Calculate and append late charges.

*The Sales Journal* (showing each invoice) and the *Cash Receipts and Adjustments Journal* record customer name, invoice number and amount posted to the General Ledger Edition (if it is installed). Important reports for auditing and accounting, these journals may be used also to analyze daily invoices and cash receipts by customer. Both journals show the appropriated general ledger total distributions.

*The Accounting Extension Edition* (page 2-85) will connect Accounts Receivable to the data base of the Personal Decision Series. You can print sales analysis, produce mailing labels and create and outstanding receivables pie chart. You can design your own special reports, illustrate with charts and graphs, build financial models and spreadsheets and merge your data into letters. (Dunning is a good example.)

The Accounts Receivable Training Edition is very valuable when you're starting out, training new employees or brushing up. It is described in the overview of this Series. Its price is \$95; order 6410961.

**Environment:** PC with 256K (320k for DOS 3.0 or later), a hard disk, matrix printer and DOS 2 or later

## **Business Management Series**

### **Accounts Payable Edition 6410951 \$775**

This program assists you in determining your immediate and projected cash requirements. It provides data on demand to manage your outstanding debt. You can obtain a picture of the amount of cash required to cover disbursements on any given due date. You can select which vendors and duebills to pay or defer. Payable items are handled on the accrual basis.

Check writing is automated. Vendor, creditor histories for the current and previous years are available instantly. Accurate detail journal transactions or summaries may be exported to the General Ledger Edition.

Discount features can:

- Automatically calculate discounts.
- Specify any discount percent.
- Allow the operator to override the discount amount or percentage by invoice or individual item.
- Reflect each available discount on reports.
- Issue a warning when the full discount has been changed or lost.
- Force discounts to be taken after terms have expired.

Interactive keyboard data entry is provided for: credit memos, invoices, prepaid invoices, check reversals and recurring invoices. Edit and verification are performed immediately so the operator usually can correct while looking at the source document.

Inquiry into vendor and open payables provide:

- Purchases and invoice totals for the current year.
- The last payment date.

- The current balance due.
- Detailed invoicing data.
- Unapplied credit memos.

The Open Payables by Due Date report ranks each by due date. It includes the discount available for each and a cumulative total-to-date, reflecting outstanding liabilities at each date. Prepaid items and check reversals are processed in an automatic Cash Disbursement Journal which is exportable to the General Ledger Edition. This journal provides an audit trail of payments transferred to the General Ledger. It also is a check register, printed in check number sequence.

Additional features:

- Recurring entries such as notes payables or rent need be typed only once.
- Vendor open item inquiry is provided.
- Default general ledger distribution by vendor is allowed.
- Default vendor cash discount percent is allowed.
- Check reversals are implemented.
- Invoice payment may be by the due date or vendor invoice methods.
- Partial payment against invoice or credit memo is allowed.
- Invoices, bills and statements from infrequent creditors are processable; with corresponding check writing.
- Certain selected invoices may be placed in hold status. Payment thus is suspended until you authorize.
- Debit/Credit memo processing is included.
- Year-end close is automated.
- Multiple general ledger expense distributions per invoice are reconciled to the total invoice amount.

*The Purchase Journal* provides an audit trail for purchases transferred to the General Ledger Edition and the Open Payables file. This report is printed in vendor sequence and is tailorable by the user.

*The Cash Requirements* report shows items selected for payment and the funds needed to meet selected commitments. These selections can be made automatically by your choice of due date or individually by invoice. You may set a maximum check amount beyond which, a warning is printed on the report—a reminder that approval or other procedure is applicable.

*Check printing* is very flexible; i.e. it has many options and is variable by the operator. You may request a reprint of a given check. Each check run produces a complete audit trail of check amounts and form usage. Print runs may be invoked whenever you choose. Manually written checks are includable in the system; they are recorded in the Cash Disbursements Journal.

*Vendor Name and Address* list may be printed by vendor abbreviation or by a range of names or numbers.



The *Financial Extension Edition* (page 2-86) is the conduit to the Personal Decision Series and it provides these enhancements:

- A service vendor list for IRS 1099 reporting
- An outstanding check list, for reconciliation
- A bar graph showing vendor purchases this year and last year

The *Vendor Analysis* report presents vendor business volumes including current and previous year history, discounts taken and foregone, purchases, date of past payment, etc. The report may include all vendors or selected ones.

The *Aged Open Payables* report shows the amount due each creditor in three different aging periods. It is printed in vendor summary, vendor detail (showing each open invoice and unapplied credit memo) or for selected creditors. This report provides information for cash flow analysis and cash requirements planning. Your Accounts Payable data can be exported to the data base of the Personal Decision Series, whereupon it can be used to create specialized reports of your design, graphs and charts, spreadsheets or merged into letters and memos.

The Accounts Payable Training Edition is recommended for first time users. It is described in the overview of the Series. It is priced at \$95; order 6410960.

**Environment:** PC with 256k (320k for DOS 3.0 or later), a hard disk, matrix printer and DOS 2 or later

## **Business Management Series**

**Inventory Accounting Edition** 6410955 \$775

This program supplies valuable information to maintain a competitive or better customer service level while optimizing your inventory investment. It can isolate item cost deviations and slow moving or obsolete items. It can suggest hottest sellers in time to press an advantage or to emphasize your high profit items. You can prevent some delays and 'manage to' others. You can optimize your reorder analysis and maybe save money by balancing your stock investment against sales activity.

## Highlights

- Stock movement and accounting data provided for up to ninety-nine warehouses.
- Inquiry shows item master information and data for each warehouse.
- Analysis may be based on sales, cost and profit.
- Input data can be keyed with a conversational edit. Input data also can be keyed with a conversational edit.
- Input data can be accepted from the Order Entry and Invoicing Edition.
- Summary data by item, warehouse, unit of measure saved for transfer.
- Returns and allowances are processed.
- Profit and onhand values are calculated.
- Average and last cost amounts are maintained.
- Average sales per accounting period is calculated.
- The date of last sale for each item is posted.
- A base price and up to four alternate prices for each item are maintained. As an option you may elect to use four alternate percentages instead, making price changes easier.
- Exception reporting will process:
  - Zero or negative quantity on hand.
  - Above maximum or below minimum quantity.
  - Cost deviation.
  - Superseded items.
- Quantity on hand and quantity on order are calculated for each item; this is helpful to evaluate next order quantity. Reorder quantities can be automated based on your selected: max/minimum balance, pack size or vendor's minimum order.

*Inventory Analysis* report identifies most and least profitable items and calculates a value of entire stock. You can print this report sequenced by date of last sale, which will identify many slow movers. Use it to make decisions based on the latest data on sales, profit and value.

*Stock Status* report provides input to determine economic quantities. It also lists as exceptions any items that are:

- Out of stock.
- Under/overstocked, based on your minimum and maximum quantities.
- Deviating in cost.
- Discontinued by vendor.

*Reorder* report identifies items which should be ordered. The suggested quantity is based on factors such as quantity on hand, quantity on order, vendor minimum, pack size and min/max balances.

*Item Price List* shows your items and up to five prices for each. You can print all items or just a group. An optional alphabetical list based on item description is available.

*Physical Inventory List* is helpful when taking the actual count. You can print the computed onhand quantities for comparison.

*Transaction Register* is a permanent record of the posting of inventory transactions. The Transaction List prints them in the sequence entered by you—for error checking.

*The Accounting Extension Edition* will connect Inventory to the data base of the Personal Decision Series. You can build an inventory pricing worksheet, inventory profit analysis report and graphs to illustrate item profitability. You can design as many special new reports as needed; illustrate with charts, build financial models and spreadsheets and merge inventory data into outgoing letters.

*The Inventory Accounting Training Edition* should be considered if you have limited experience with computers or inventory control. It is excellent for newly hired operators and supervisors find it useful to brush up rusty spots. It is described in the overview of this Series. It is priced at \$95; order 6410964.

**Environment:** PC with 256k (320k for DOS 3.0 or later), a hard disk, matrix printer and DOS 2 or later.

## **Business Management Series**

### **Order Entry and Invoicing Edition 6410954 \$775**

This program processes customer orders quickly and accurately. It supports multiple pricing, discounting and taxing methods. An order can be edited, priced and extended in one step. An attractive invoice is printable at entry time. A picking list also is printed to assist warehouse personnel. If you are using the Inventory Edition, it will allocate inventory when the order is entered. A credit status can be verified automatically if the Accounts Receivable Edition is installed. Invoices may be mailed the day of order placement if desired.

#### **Highlights**

- Three billing methods are offered:
  - Pre-billing allocates inventory at the time of order entry, based on quantity ordered or quantity available. A picking list can be printed and open orders updated. Orders are selected for invoicing and a Back Order report can be printed.
  - Post-billing orders can be selected for invoicing after an order has been filled. A picking list can be printed and used as packing list.
  - Over-the-counter prints the invoice immediately.
- Flexibility is provided to change quantities and prices in an order if desired.
- Cash, charge or COD orders are supported.

- Returns and allowances are processed.
- Each invoice is numbered automatically but changes are accepted.
- Selective pricing for every customer is available.
- Customer and item inquiries are provided.
- Typed entry is interactive with a conversational edit. If a customer is over his credit limit it is displayed during entry.
- Flexible support provides for:
  - Base price and four alternate prices.
  - Base price and four alternate percentages.
  - Five percentage discounts on terms.
  - Five discounts on invoice amount.
  - Sales taxes for up to fifty taxing jurisdictions.
  - Up to three taxes per invoice.
  - FET calculations.
  - Calculating back order quantities.
  - Special charges.
  - Broken case pricing with optional surcharge.
- Non-stocked items and one-time customers may be invoiced optionally.
- The system can:
  - Note shipping quantity if different from order quantity.
  - Insert a new line within an order or at the end.
  - Delete a line or entire order.

*Item Price List* presents current pricing data including up to five alternate prices per item.

*Customer Name and Address List* shows name, address and telephone.

*Invoices* can be printed selectively and reprinted later by three selected criteria: all orders not yet invoiced, a range of orders by open order number or a specific order.

*Back Order* report shows vendor, customer and descriptive information for each item back ordered. you can use this report to reenter orders when sufficient inventory arrives.

*Invoice Sales Journal and Summary* shows invoice summary information you are transferring to the Accounts Receivable Edition, if installed, and how much money you are distributing to each general ledger account.

*Sales Tax Summary* report shows taxable sales and taxes billed for up fifty taxing jurisdictions. You can use it monthly or quarterly to report taxes.

*Picking List* shows shipping data and item data. This assists the warehouse personnel in filling orders accurately. Space is provided to note actual quantity shipped if it is different from quantity ordered.

*Sales Recap* report lists orders that you have invoiced. You can select format: summary, detail, or exception, and use it to track profit amounts and percents. Exception shows profit percents under and over limits you specify. ordered that are either under or over the limits you specify.

*The Accounting Extension Edition* (page 2-85) will connect Order Entry and Invoicing to the data base of the Personal Decision Series. You can build an open order list, customer mailing labels and a graph of sales by salesperson. You can design as many special new reports as needed; illustrate with charts; build financial models and spreadsheets and merge order entry data into outgoing letters.

*The Order Entry Training Edition* should be considered for inexperienced personnel or those who are not familiar with computer order entry. It is described in the overview of this Series. It is priced at \$95; order 6410963.

**Environment:** PC with 320k, a hard disk, matrix printer and DOS 2 or later

## **Business Management Series**

**Payroll Edition** 6410953 \$775

This program is designed to ease the clerical burden of producing an accurate, timely payroll and the associated reports. Check writing is automated and you have an efficient means to analyze your payroll liability.

The system accommodates multiple pay frequencies and multiple deductions. It handles special-case situations such as additional withholding, handwritten checks and tip allocation. Data is entered once to calculate gross-to-net and reused to create checks and W-2s. You have a clear and organized portrayal of the cost of benefits, departmental payroll expenses, overtime and other categories that you may select.

### **Highlights**

- Hourly and salary, exempt and nonexempt methods are supported.
- Weekly, biweekly, semimonthly and monthly periods are selectable.
- The system can produce multiple checks per employee to handle special situations such as vacation or bonus.
- Data entry is accurate and flexible. It allows flexible time entry with immediate verification and override.
  - Multiple time entries allow distribution of earnings to several general ledger accounts, taxing jurisdictions and departments. There is no rekeying needed to create the update to general ledger.
  - Different rates are included to calculate gross (regular rate, time and a half, premium time, shift differential, double time, double time and a half, and triple time.)
  - Exception processing for bonuses, taxable or nontaxable adjustments or advance deductions is included.

- Check processing for precalculated checks, reversal checks or handwritten checks is included.
- The system performs the following employee calculations and accumulates monthly, quarterly and year-to-date totals for each employee.
  - Gross pay
  - Federal Income Tax (FIT)
  - Social Security (FICA)
  - State and local taxes
  - State Disability Insurance (SDI)
  - State Unemployment Insurance (SUI)
  - Earned Income Credit (EIC)
  - Federal Unemployment Tax Act (FUTA)
  - Earned Income Credit (EIC)
  - Net pay (Calculates only.)
  - Taxable and nontaxable adjustments
  - Deductions based on on percent of taxable gross, rate per hour, flat amount per period
- Deductions may be reset, e.g. bonds.
- Benefits are calculated and appended upon request, e.g. a monthly driver's allowance.
- Tip income is processed:
  - FICA paid and not paid
  - Tips deemed to be wages, tips allocated and tips reported
  - Month-to-date, quarter-to-date and year-to-date totals
- Provision is made for an hourly guarantee.
- Inquiry is provided into employee files for data on deductions, benefits and taxes.
- Up to twenty taxes per check are calculated for as many states and cities as you define.

*The Payroll Register* shows each employee's pay rate, hours worked, department, deductions, benefits and net pay. Corresponding tax liabilities are presented. Checks over a specified amount or excessive hours cause warning messages.

*Payroll Check and Earnings Statement* are a simple by product of recording the timesheet entries. Each Earnings Statement shows deductions, benefits, taxes and year-to-date earnings data.

*Payroll Distribution Journal and Summary* shows detailed general ledger distributions of employee checks—an excellent audit trail. The Summary organized total debit/credit amounts by general ledger account for wages.

*Wage and Tax Recap* is a printed report listing tax data for each employee and each type of tax withheld—federal, state, local and state disability insurance.

*W-2 Report* prints on forms in sequence by employee number for federal, state and local taxes.

*Employee Information* lists employee name, address, state worked in, applicable tax jurisdictions, deductions and benefits.

*Deduction and Benefit Register* lists which deductions were withheld and which were paid for each employee per period.

*State and Local Tax Register* lists tax deductions taken for each employee during the period and totals for each jurisdiction.

*Federal Tax Register* reports each employee's gross, FIT, FICA and earned income credit given during the current period. If an employee receives tips, the report includes related information e.g. tips deemed to be wages, allocated, tips taxed and nontaxed for FICA.

*Workers Compensation Worksheet* indicates each person's compensation code by state. Each amount printed is the accumulation of all the hourly employees' hours for that category (regular, overtime, vacation, holiday or ill), multiplied by the hourly rate. The worksheet reflects only hourly rates. You can use it to negotiate better insurance premiums and to simplify calculation of worker's compensation insurance liability.

**Environment:** PC with 256k (320k for DOS 3.0 up), a hard disk, matrix printer and DOS 2 or later

*The Financial Extension Edition* (page 2-86) provides pre-coded examples that will connect Payroll to the data base of the Personal Decision Series. You can produce an hour by type report, a list of outstanding checks for reconciliation and a YTD Gross Pay Expense bar graph. You can design as many special new reports as needed; illustrate with charts and graphs; build financial models and spreadsheets and merge your data into a letter.

*The Payroll Training Edition* is recommended for the original installation of the system and for new operators and payroll clerks and supervisors. It is described in the overview of this Series. It is priced at \$95; order 6410962.

## **Business Management Series**

**Local Area Network Access Edition** 6410965 \$245

**LANAE** is a new tool for sharing accounting data across multiple PCs. It shares your Business Management Series Edition applications and their associated data with other members of the IBM PC Network. This encourages a company's various departments to access a shared, single source for data. For example, the order processing department might have the need to access the accounts receivable data for a credit check; or to verify available inventory without having to print memos or reports, or search files manually.

## Highlights

- Supports up to five concurrent users—one server plus four remote.
- Programs and files of the Business Management Series are shareable.
- Integrated asset protection feature logs and tracks active users by license/serial number to help to prohibit unauthorized use of a license.
- An Application Job monitor tracks
  - Which PCs are running Business Management Series Application jobs.
  - Which of these jobs have reserved files open.
  - Which application files are locked.
- The Job Conflict Manager intercepts all Business Management Series application job requests, evaluates them in the context of jobs that are running and advises if a conflict exists.
- Documentation provides instructions for integrating the Business Management Series into the PC Network.

This is a resource manager for running multiple Business Management Series applications in the PC Network. Many users may run the same job, regardless of its function, against files for different companies. Within a company LANAE allows concurrent execution of tasks in the applications except those where files are updated. The programs, files and a central printer are using PC Network hardware and software.

## Environment

- The server requires a PC, XT or AT with 640k, one drive plus 10MB hard disk, PC Network Adapter, Translator unit, DOS 3.1 up, IBM PC Network Program and one or more application Edition of the Business Management Series.
- One IBM compatible PC printer capable of printing 132 characters per line in compressed or normal density.
- One additional PC, XT or AT with 512k, one drive and one PC Network Adapter. A remote PC requires DOS 3.1 up, and LANAE.



## Business Management Series

**Financial Accounting Extension** 6410958 \$275

This is the interface which connects General Ledger, Accounts Payable and Payroll Editions to the Personal Decision Series. It enhances the reporting and inquiry capabilities. Data is transferred to the Data, Reports + or Graphs Editions. The Extension includes three applications for General Ledger—one each for Data, Reports and Graphs. Accounts Payable and Payroll is extended similarly, viz.:

- *General Ledger*: An Account Balance list is added as an application to your Data Edition. A Transactions by Posting Date list is added to Reports + and an Expense Breakdown of Revenue is added to Graphs.
- *Accounts Payable*: A Service Vendor list is the Data application. An Outstanding Check list is Written using Reports + . And Graphs will display a Vendor Analysis by Purchases to Date.
- *Payroll*: Hours by Type report is added to the Data Edition. An Outstanding Check list is written using Reports + . And Graphs presents a Labor Distribution.

The three applications that are written using Reports + do not absolutely require that you buy Reports + , although you're likely to want it anyway; and you would need it to modify the applications.

Remember, data flows *from* this Extension *to* the Data Edition. Whereupon it is processed by a Personal Decision Series Edition. The reverse is not true. Therefore you should add your own enhancements within the *Personal Decision Series*, as Business Management Editions do not import data from the Data Edition. The Personal Decision Series provides lots of hooks, exits and customizing 'knobs and levers' for this purpose.

This Extension contains an added value. When you buy any of the three Editions of the Personal Decision Series, you will already have an outstanding model program. You'll be off to a quick start; and better yet, you should use these exemplary applications to practice modifying an existing application and to architect your own applications.

**Environment:** PC with 256k (320k for DOS 3.0 or later), hard disk, matrix printer and DOS 2.0 or later.

## Business Management Series

**Financial Extension Edition** 6410957 \$275

This is the interface which connects General Ledger, Accounts Payable and Payroll Editions to the Personal Decision Series. It enhances the reporting and inquiry capabilities. Data is transferred to the Data, Reports+ or Graphs Editions. The Extension includes three applications for General Ledger—one each for Data, Reports and Graphs. Accounts Payable and Payroll is extended similarly, viz.:

- *General Ledger:* An Account Balance list is added as an application to your Data Edition. A Transactions by Posting Date list is added to Reports+ and an Expense Breakdown of Revenue is added to Graphs.
- *Accounts Payable:* A Service Vendor list is the Data application. An Outstanding Check list is Written using Reports+ . And Graphs will display a Vendor Analysis by Purchases to Date.
- *Payroll:* Hours by Type report is added to the Data Edition. An Outstanding Check list is written using Reports+ . And Graphs presents a Labor Distribution.

The three applications that are written using Reports+ do not absolutely require that you buy Reports+ , although you're likely to want it anyway; and you would need it to modify the applications.

Remember, data flows *from* this Extension *to* the Data Edition. Whereupon it is processed by a Personal Decision Series Edition. The reverse is not true. Therefore you should add your own enhancements within the *Personal Decision Series*, as Business Management Editions do not import data from the Data Edition. The Personal Decision Series provides lots of hooks, exits and customizing 'knobs and levers' for this purpose.

This Extension contains an added value. When you buy any of the three Editions of the Personal Decision Series, you will already have an outstanding model program. You'll be off to a quick start; and better yet, you should use these exemplary applications to practice modifying an existing application and to architect your own applications.

**Environment:** PC with 256k (320k for DOS 3.0 or later), hard disk, matrix printer and DOS 2.0 or later.

## **C 6871466 \$350**

C is a general purpose structured programming language suitable for almost any type of application or system development. It is compatible with UNIX™ Version 7.

### **Highlights**

- Run-time library includes support to write commercial type applications.
- Complete package includes the C compiler, runtime library, a relocating assembler, and the standard DRI linker.

C differs from other programming languages such as BASIC, FORTRAN, or COBOL in its design as a systems implementation language. The features in C allow the programmer to become familiar with the architecture of the machine being programmed. This facilitates better use of a computer's features, thus making programs more efficient. C, designed to be portable between computers and operating systems, provides no input-output facilities. Machine or operating system dependencies are not built in to the language. High level mechanisms are provided by calling functions defined in the runtime system that supports the operating environment. Another version of C is the one included in PC/IX.

**Environment:** PC, XT or 3270-PC with 128k, one drive and DOS 1.1 or later.

## **Cable Data Management System 6317002 \$450**

This is a tool for facilities engineers, planners and managers. Its function is to aid with the planning, installation and records maintenance associated with the IBM Cabling System.

### **Highlights**

- Color graphics layout of building floor plan and cabling system
- Optional plotter support for color layout of building floor and cabling system
- Hard copy of building floor and cabling system layout
- Program calculation of required cable lengths, wiring closet accessories and attaching product accessories

- Cabling system report showing for each cable the office area origin, wiring closet destination and length
- Bill of material report showing ordering information for required cable and accessories, including costs based on user supplied unit cost or quantity data
- Labor cost estimate report based upon user specified labor rates
- Creation of data base with building and cabling system data
- Cabling system records maintenance using data base update capability
- Preparation of installation documentation including cable labels, schedule and location charts

**Environment:** PC with 256k, two drives or one plus a hard disk, color or monochrome CRT, matrix printer and DOS2 or later.

The 3270-PC/GX is supported in PC native mode. It allows emulation of the 5153 Color Display using the 5379 Color Display. The 5151 and 5153 or the 5379 on the 3270-PC/GX Displays are required. Optional equipment supported through the Asynchronous Communications Adapter (1502074) includes the 7372 Color Plotter.

## **CICS to 3270-PC File Transfer 5798-DQH \$660**

Now the user can upload and download local data and programs to the System/370 host, thus providing the remote user the advantages of access to the large scale resources of central data bases, hardware and the membership of the CICS network.

### **Highlights**

- The CICS transaction communicates with the file transfer function of the 3270-PC Control Program.
- Transfer is at a functional level similar to the File Transfer Programs from 3270-PC to either MVS or VM.
- The data are transferred via CICS temporary storage.

## Potential Benefits

- The user can save the considerable expense of hard disk or other local storage for data and programs. One may elect to retain only those files that are in current or frequent use.
- Users can expand application development; as data gathered locally can be submitted to the sophistication of CICS processing.
- The user now receives the benefit of exchanging data, messages and programs with other members of the CICS network—whether they are PC, 3270 or 3270-PC.

**Environment:** CICS and the 3270-PC Control Program.

## PC/Colorview 6410982 \$115

This program permits the PC to function as a videotex terminal. After communication linkage is established to a videotex computer, e.g. Videotex/370, the user may view the frames (screens) on a color monitor, and save selected ones for review. The user also may key data or text for transmission (reply) to the host. Since PC/Colorview is a two-way (dialog) communications system, the user may enter data to the host or other videotex terminal.

## Highlights

- The essence of the program is access to host videotex data bases.
- Billboarding will display a preselected series of frames (analogous to color slides) with a specified viewing interval.
- Disk input mode is provided as an alternative to the normal communications link.
- Connection to a variety of networks and services is supported.
- Commands are entered using function keys or typed.
- Local data base is supported on all models of the PC family. The user can display frames from his own PC's data base. He can select frames from a menu. This function simulates a connection to a remote host, so a communication link is not required for a local session.

- PC/Colorview is user-friendly and not technical. The inexperienced or casual user is guided through the steps needed to retrieve the desired information.
- The Color ASCII protocol syntax is supported. This videotex protocol is a subset of the PRESTEL® standard.

**Potential Benefits**

- PC users can save the cost of a separate videotex terminal. PC/Colorview is an inexpensive upgrade to the user's PC.
- The user can capture frames received from the host and replay them; nearly impossible with an unintelligent terminal.

**Environment**

- 64k plus DOS 1 or later on all models of the PC family except for IBM 3270/PC which requires DOS 2.1 or later; DOS 3 or later on AT
- One double-sided drive
- Monochrome or Color monitor
- Asynchronous Communications Adapter—on PC, XT or AT
- 1200 baud modem (IBM 5841 Modem or equivalent to SMARTMODEM®, or manual dial modem)
- For Monochrome Display: IBM Monochrome Display Adapter
- For Color Display: IBM Color/Graphic Adapter

You can receive the Availability Notice G320-9387 by using the Order form in back.

**IX RM/COBOL™**

Compiler and Run Time Interpreter	6316996	\$825
Run Time Interpreter	6316997	\$249

This is a GSA-certified COBOL, level 1 based on 1974 ANSI standards. Programs written in RM/COBOL will execute on any RM/COBOL compatible computer.

## Highlights

- **Portability.** Applications written in RM/COBOL can be moved from one computer to another without change.
- **Interactive screen handling.** Features include easy maintenance of screen and field attributes, interactive terminal control, cursor column and line positioning and exception character handling.
- **File capability.** Multi-keyed indexed files may have as many as fourteen alternate keys, including duplicates. All standard COBOL file access methods are supported at the highest ANSI level.
- Link edit is not required for execution.

This compiler is designed for serious business computing. Interactive screen handling is flexible and fast for development and debugging. Debugging during execution is provided.

The package is intended for developers who need to compile and test on the the same PC. It also is designed to operate as a standalone product.

**Environment:** PC/IX

## Level II COBOL™ 6871465 \$1,600

Level II COBOL includes language features from the American National Standards Institute modules, implemented fully to the highest level as defined by ANSI.

## Highlights

- Nucleus
- Table handling
- Sequential I/O
- Relative I-O
- Indexed I/O
- Sort-merge
- Segmentation
- Library
- Debug
- Interprogram communication
- Communication
- Federal flagging
- GSA certified, full ANSI COBOL
- Fast compile and execution

- Portability

Level II COBOL includes features that address the needs of interactive programs and helps programmers develop them. These features include language extensions for screen handling. In addition, the compiler provides the capability to load independent segments (overlays) and call COBOL subprograms dynamically from diskette. The latter facility means that there is no limit on the total size of application code that can be run. Compatible with ANIMATOR,™ FORMS-2™; (see pages 2-37 and 2-113) provides optional interactive screen creation and edit.

**Environment:** PC, XT or 3270-PC with two drives or one plus a hard disk and DOS 1.1 or later.

## **Corporate Cash Manager 5601-006 \$4,400**

The system stores, combines and reports cash data in numerous ways to help you analyze your present environment, react to market opportunities and assist in formulating strategies for debt, investments and cash.

### **Highlights and Management Aid Areas**

With this system you can

- Identify and report current cash position.
- Report balances and control accounts promptly.
- Track maturing issues and numerous calendar events.
- Project future cash balances and requirements.
- Manage banking relationships.
- Transfer funds to gain yield optimization.
- Rank investments by yield.

Additional features are:

- The end of day cash position is gathered and presented.
- The cash worksheet is automated.
- Wire transfer of funds is automated.
- Dial facilities are available--to a financial institution (bank network) or a value-added network.

**Account Analysis** performs activity and profitability analysis for an account: e.g.; compare all banks or all accounts; locate excess funds immediately; compare balances against imposed service fees; request historical comparisons; produce standardized analysis statements by account, bank or company name.



**Analytical Tools** automate common and repetitive calculations such as amortization schedules, bond values, cash forecasts, depreciation, discounts on paper, interest, present and future value, cost of capital, true cost of debt and yield.

**Balance Reporting** determines current or historical status of accounts--by account, bank or company. Set target balances; compare them; and do balance projections.

**Banking Relationships** provides inquiries from the PC keyboard about a given company's banking characteristics. Obtainable by bank or company.

**Cash Calendar and Worksheet** provides management cash position daily with projected requirements and surplus.

**Communications** provide account balance data via direct link to the corporate bank(s) computers. The link also can be to a balance reporting network.

**Debt and Investment Analysis** assists the management of portfolios. It monitors and analyzes debts and investments.

**Funds Transfer** 'wires' request for transfer to the corporate bank's computer. It maintains files of transfer histories. And it stores transfers for future transmission.

**Account Maintenance** provides a convenient methodology to update data about banks, companies, and accounts. You can change security characteristics and build a file to be input to a spreadsheet program.

### **Potential Benefits**

- Reduces much of the administrative and clerical work needed to support the ongoing series of cash decisions.
- Provides the decision maker the timely data and better tools for planning and optimizing each decision.
- Lessens the risk of penalty or lost opportunity due to error.

**Environment:** PC or XT with 192k, DOS 2.0 or later, two double drives. Asynchronous Communications Adapter and associated modem (Hayes Smartmodem® or Hayes Smartmodem 1200 or Novation Smart-Cat® 3/212) hardware are optional.

This program has variable characteristics and availability. It is available only through IBM Financial Application Remarketers. See your IBM Representative for further information. A General Information publication is available (Order card in back) as form number GH20-0391.

## **Crosstalk™ 6871366 \$195**

This program provides 'smart' terminal and file transfer communications functions.

### **Highlights**

- Allows full sending and receiving.
- Transfers any size or type of file.
- Supports most popular autodial modems.

Crosstalk performs two major functions. It is a terminal program, allowing the user to dial into a host computer system and appear to be a terminal. It also is a file transfer program. This allows the user to call up other compatible computers to exchange files.

**Environment:** Requires 128k, one drive, Asynchronous Communications Adapter, modem and DOS 1.1 or later. Compatible with other Microstuf, Inc. products.

## **DB/Editor/Writer 6276554 \$50**

Edit and organize you data base easily. Write reports or edit, sort, select and file data. This is a fast efficient tool for resequencing records within a data base and doing simple or complex search and change operations.

### **Highlights**

- Enter, edit or browse in full screen mode.
- Designate up to 32 data fields.
- Sort up to sixteen fields.
- Enter data quickly with the macro capability.
- Maintain mailing lists, stock portfolios and checking accounts.
- Perform pricing, billing, budgeting and expense accounting with the arithmetic functions.

The program performs data entry, record maintenance, utility and report writing. As an editor it can maintain text files of records up to 500 bytes. With full screen mode you can browse lengthy files at five to ten screens per second.

The full screen editor provides data entry and edit. The selection function lets you define and locate your own subsets of data. The Output Writer

encourages you to create many different report formats from the same input file. The 8087 Math Co-processor is invoked if it is present on your PC.

**Environment:** PC, XT, PPC, PCjr, AT or 3270-PC with 128k, matrix printer and DOS 1.1 up

## **dBASE III™ Plus 6187184 \$695**

dBASE III is an extensive function relational data base, plus a high level programming language to provide access, query and processing. An integral Assistant is available for ease of learning and usage. It has been developed to take advantage of capabilities inherent in sixteen-bit computers.

### **Highlights**

- Ten data base files may be used simultaneously
- Sorting speed approximately 100 times faster than dBase II™
- 128 fields per record are maximum.
- 4k bytes per record are maximum.
- New data type 'memo' provides capability to store abstracts, memos, notes etc, within the data base.
- A programming language includes logic and math functions, i.e. roots, exponents, logs, etc.
- Over one billion records per file

**Environment:** Requires a PC, XT, AT, RT or 3270-PC with 256k, matrix printer and DOS2 or later. A 132 position printer is recommended. To upgrade from dBASE II, order 6871435 \$200.

## **Diskette Librarian 6024050 \$45**

This product creates and maintains a catalog of filenames across multiple diskettes.

## Highlights

- Names diskettes.
- Creates and updates a catalog of files and diskettes.
- Arranges the catalog by files and diskettes.
- Displays and prints the catalog.
- Accepts use of global characters in commands.
- Provides for comments for each file and diskette in the catalog.
- Allows users to tailor the program to meet specific display and printing requirements.
- Supports the IBM 5151 Monochrome or 5153 Color Display as well as any forty or eighty-column color or black and white display that is compatible with the PC.

With the Diskette Librarian, users no longer must search through their diskettes to find the files they need. Each catalog entry includes the size of the file, the date it was last updated, optional comments, and the name of the diskette that contains the file. The Diskette Librarian marks old versions of files and files without exact copies. The program also summarizes the space available on each diskette in the catalog.

To operate the program, users choose commands on three menus. Users can type commands or use designated function keys. 'Help' menus summarize information about available commands and command syntax.

**Environment:** PC or XT with 64k, one drive and DOS1 or later

## DisplayComm BSC 6024187 \$409

DisplayComm Binary Synchronous Communications is a member of the DisplayWrite Series. It supports data exchange with the Displaywriter, 6670 Information Distributor, 5520 Administrative System, Office System 6, and suitably programmed host computers, as well as with other PCs equipped with DisplayComm Binary Synchronous Communications. Multiple data formats are supported, including the revisable form text document content architecture data stream.

## Highlights

- Communicates revisable form text document content architecture, page image text, or card image text.
- Communicates DOS ASCII files between PCs that have DisplayComm Binary Synchronous Communications.
- Stores up to eight communication setups.
- Provides a send queue of up to twenty documents or files.
- Attended or unattended operation is selectable.

- Utilizes switched or non-switched (leased) lines.
- Provides 2770/3780 and 2780 emulation.

DisplayComm provides functions necessary to transmit documents or data over a communications line at speeds up to 4800 bps. DisplayWrite documents can be transmitted in RFTDCA or page image format to another PC with DisplayComm BSC, a 6580 Displaywriter, or suitably programmed IBM host computer. Additionally, DOS ASCII and object files may be transmitted to other PCs with DisplayComm. Print level seven-bit ASCII documents received may be converted to DisplayWrite 2 format or stored as DOS ASCII files.

DisplayComm provides 2770/3780 and 2780 emulation. Switched and nonswitched lines are supported. Unattended operation is facilitated by support for auto-answer modems and by an optional exchange of identification information with another DisplayComm BSC program, or with suitably-programmed devices. DisplayComm is similar in function to the Binary Synchronous Communications program (5608-SR2) for the 6580 Displaywriter System. Differences exist to accommodate implementation under DOS.

### **Compatibility**

A PC using DisplayComm and DisplayWrite 2 (feature #4189) can interchange information with a Displaywriter using the Displaywriter Binary Synchronous Communications program (5608-SR2). Exchange of documents in the Document Content Architecture revisable form text data stream is supported. The level of compatibility for editing and printing RFTDCA documents on IBM products is dependent upon each product's functional capabilities and implementation. Compatibility documentation describing the level of interchange between IBM products is available.

A PC using DisplayComm and DisplayWrite 2 can exchange information with the 5520 Administrative System with communications support, or with a 6670 Information Distributor or Office System 6 with binary synchronous communications support. DisplayComm provides the capability to convert DisplayWrite 2 documents to and from either EBCDIC page image or EBCDIC card image for exchange with these devices. Limitations for this exchange are documented in the DisplayComm reference manual.

A PC using DisplayComm can interchange data with another similarly equipped IBM PC. Any DOS file, including object files, can be transmitted and used by the receiving system as if it had been created on that system. Any exchange of data for use by a different software program and any transmission of copyrighted information are the responsibilities of the user.

DisplayComm also may be used for exchange of data with suitably-programmed host computers that support 2770/3780 or 2780 communication protocols. DisplayComm BSC can send and receive files in any DOS format. In conjunction with DisplayWrite 2, DisplayComm can also send and receive EBCDIC page image, EBCDIC eighty-column card image

or RFTDCA data streams. It is the customer's responsibility to determine the ability of the host program to use any of these data streams.

**Environment:** Requires a PC, XT or PPC with 256k, two drives or one drive and hard disk, BSC Adapter (feature #2075) and DOS 2.1. A modem and cable are required to connect to a network.

## DisplayWrite

The IBM DisplayWrite Series includes DisplayWrite 1, DisplayWrite 2, DisplayWrite 3, DisplayWrite Legal Support, DisplayWrite Medical Support and DisplayComm Binary Synchronous Communications. It is built on the success of the Displaywriter and the PC. This family of programs provides comprehensive word processing capabilities that are easy to learn and use. DisplayWrite Assistant is a member of the Assistant Series (page 2-38).

### Highlights

- Comprehensive text creation and revision capabilities
- Easy to learn and use, with menus supplemented with commands and prompts
- Capability to interactively include certain printable DOS ASCII files in text documents
- Support for a variety of printers
- Diskette interchange between DisplayWrite 1 and DisplayWrite 2
- Columnar operations for tables
- Four-function interactive math
- Automatic hyphenation and pagination
- Dictionary for spelling verification and hyphenation
- Named variable merge for generating repetitive letters
- A utility to produce IBM revisable form text document content architecture (RFTDCA) data stream, for interchange with other IBM office systems

Menu-driven functions similar to the Displaywriter are supplemented by commands and prompts for use across the IBM family of PCs.

DisplayWrite 1 provides basic text function supporting the creation, revision, and printing of documents. DisplayWrite 2 provides capabilities for processing large documents, hyphenation, spelling verification, statistical typing, and repetitive letters. DisplayWrite Legal Support provides legal dictionary support and is available for use with DisplayWrite 2. DisplayComm Binary Synchronous Communications (BSC), which provides batch data transmission capabilities, is described in IBM Programming Announcement 284-140 and in the previous article.

The DisplayWrite 2 program supports the entry, revision, and printing of general correspondence, multiple-page documents and statistical tables for professionals or secretaries. The program provides operator interface and functional capability similar to the 6580 Displaywriter using Textpack 4. The text processing functions are selected by the operator through menus and keys. Text functions include document assembly, named-variable merge, automatic pagination, integrated spelling, math, and column layout.

After a document is typed or revised, the spelling verification aid helps check for possible spelling errors. The spelling verification aid compares the words in a document to an IBM-provided dictionary of approximately 100k words, as well as a customer created supplemental dictionary (up to 4,500 characters) that is unique to the customer's environment.

After creating or revising a document, the operator can choose to do a spelling check, make hyphenation decisions, and have the document paginated in one operation. As part of this task, the operator can choose to do a prompted spelling check. Any word not found in either dictionary is highlighted on the display. The operator can indicate that the word is acceptable or correct the misspelled word by typing it correctly on the prompt line of the display. The newly typed word is verified, and if found in either dictionary, the newly typed word replaces the highlighted word in the text. The spelling dictionaries can be used to determine the hyphenation points within a word.

The supplemental dictionary can be converted to a document form to facilitate printing and editing of the words in the dictionary. In addition, words can be added to a supplemental dictionary while the operator is using the spelling verification aid.

In addition to the text function, DisplayWrite 2 offers statistical typing functions:

- Column processing functions including: column layout, column revision, column insert, column delete, column move, and column copy.
- Four-function math allows the operator to add, subtract, multiply and divide numbers. Rows or columns of numbers can be added, and a constant can be used in any calculation. The results can be displayed or inserted in the text.

- The number of items added or subtracted in a row or column is displayed for the operator, as is the total of the math calculations. If an average is needed, the operator can use the system to compute the average by dividing the number in the total by the number of items.
- The math function also can be used to perform percentage calculations.

DisplayWrite 2 provides a conversion utility to transform between internal data stream and RFTDCA data stream for interchange with other IBM word processing programs or systems supporting this IBM strategic data stream format. The level of compatibility for editing and printing is dependent upon each product's functional capabilities and implementation. Compatibility documentation describing the level of interchange between IBM products is available.

### **Compatibility**

There are operational and functional differences between DisplayWrite 1 and DisplayWrite 2. There are operational and functional differences between DisplayWrite 2 and Textpack 4. These differences are due to hardware differences (e.g., keyboard and display font) and DOS implementation (e.g., menu/command line operation and messages/prompts).

Utilities provided with both DisplayWrite 1 and DisplayWrite 2 convert documents to an interchange format for diskette interchange. The level of compatibility for editing and printing is dependent upon each product's functional capabilities and implementation.

DisplayWrite 2 provides a conversion utility to transform between the internal data stream and the RFTDCA data stream for interchange with other IBM word processing programs or systems supporting this IBM strategic data stream format. The level of compatibility for editing and printing is dependent upon each product's functional capabilities and implementation. Compatibility documentation describing the level of interchange between IBM products is available.

Certain programs for the PC provide an execution environment that allows DOS to co-reside with these programs in main memory. DisplayWrite 2 will execute, as a DOS 2.1 application, in the execution environments provided by:

- 3270-PC Control Program (P/N 1837434, feature #1505)
- 3278/79 Emulation Control Program (602413 4)
- 8100 PC Adapter Kit (6113477)
- 5520/PC Attachment Program Version 3 (6403724)
- PROFS/Personal Computer Connection (PROFS/PC<sup>2</sup>, 6410984)
- Personal Computer Cluster Program (6024107)

DisplayWrite 2 requires 192KB of memory in addition to memory required for these programs. Consult documentation for these programs to



determine actual memory requirements and any restrictions or prerequisites.

**Environment:** Except for the PCjr, most models require 192k, two drives or one plus a hard disk, 5152 printer and DOS 2.1 or later.

For prices and additional detail refer to 'DisplayWrite' in the Keyword listing.

## **Doctor's Office Manager II 6467035 \$2,749**



This is a series of applications that provide the physician with a comprehensive, computerized practice management system. It helps the physician to monitor the quality of health care.

Appointment scheduling, billing, accounts receivable, filing insurance claims, practice and business analysis and routine correspondence are provided by this automated system. The intended results are to

- Increase office productivity.
- Improve cash flow.
- Provide effective patient management.
- Deliver better patient care.

The system is designed to accommodate the growth of the practice. It assumes more control of the administrative side of the business without having to add personnel. This enables the physician to concentrate on what he really *should* be doing.

### **Highlights**

- Improve patient record keeping by developing detailed profiles of vital patient information.
- Maintain patient appointment schedules efficiently and have current schedules available online.
- Evaluate the productivity of the practice by an analysis of procedures performed and amounts billed.
- Improve patient service by providing time-of-service patient bills indicating medical treatments and charges.
- Increase cash flow by producing timely, comprehensive statements.

- Gain a better understanding of the business aspects of the practice through cash and revenue reports.
- Simplify insurance claims processing by automatically printing insurance claims on standard AMA or Medicare forms; or design and print up to 97 other insurance forms.
- Generate and print correspondence.
- Support multiple users using the optional IBM PC Local Area Network.
- Choose between balance forward and open item accounting.

### **Daily Activities**

- Patient data can be added, reviewed or changed.
- Patient charges can be entered automatically, based on the procedure performed, or directly.
- Additional charges may be added or previous charges may be deleted or reviewed during the daily office routine.
- Applies cash payments, prints receipts and reviews and adjusts payments.
- Prints routing slips by selected patients or from the appointment schedule.
- Prints daily cash and revenue reports.
- Provides a daily, alphabetical list of new patients.
- Schedules appointments by date, time and physician.
- Provides a facility to review a patient's appointments or physician's schedule on a daily basis.

### **Billing and Insurance**

- Prints individual statements for all billing cycles or for specific patients.
- Prints statements on either mailing or stuffer forms.
- Ages accounts monthly.
- Provides a utility to design or alter insurance claim forms.
- Prints insurance claims by company, claim form type or worker's compensation.
- Provides open item or balance forward option.

Doctor's Office Manager II is designed to help office personnel learn the system easily and become productive quickly. It makes good sense to install the system even if the office staff has no prior knowledge of computers. Through the use of well-organized and easy-to-understand menus, office personnel can quickly find the information that they need. An online help feature provides uncomplicated instructions for every required entry. Most operations can be accomplished through a few simple keystrokes, saving you valuable time.

All the office staff needs is a basic knowledge of the bookkeeping, billing and insurance claim procedures used in a medical practice. The system

will help them gain control over the business aspects of the practice. A wide range of the complex administrative elements of a physician's practice are addressed.

**Environment:** PC, XT, AT with 384k and 10MB, printer with compressed print feature or 132 print positions and DOS 3.1+. For networking use an XT or AT as the file server with 10MB, 512k, DOS 3.1+ and appropriate network hardware and software. XTs, ATs, or IBM Portables can serve as workstations.

The Doctor's Office Manager II  
Now, it's even better.



## **DOS Enhanced Debug 6276594 \$25**

This program assists in program development. It provides a controlled environment in which you monitor and control execution. You can display and alter memory, instructions, any register and run all or part of a program for diagnosis.

### **Highlights**

- View debug display and program display on two separate CRTs or one.
- Single-step through or around procedures in the program.
- Select 'teach' mode to save keystrokes or to rerun.
- Set up to fifteen conditional breakpoints plus one quick set breakpoint.
- Set breakpoints conditional on registers, RAM or counters.
- Assemble 8086 and 8088 code directly into memory.
- Display files in hex and ASCII without loading them into memory.

**Environment:** PC, XT, PPC, PCjr or AT with 128k, one drive and DOS 1.1, 2, 2.1, 3, 3.1. When operating on an AT, only the 8086/88 is interpreted. A second CRT is supported for concurrent operation.

## **DOS File Tracker 6276518 \$20**

A highly efficient methodology of maintaining your diskette library. Locate files quickly and easily on diskettes or disk. Are you ever frustrated by being unable to find a file without a time consuming search.

## Highlights

- Identify each file in the catalog with your own comments.
- Add a security classification to designated files.
- Edit file listings when necessary.
- Group files by type for efficient retrieval.
- Print diskette labels and content-identifying inserts.
- Enter DOS commands without exiting.
- Use with hard disk to catalog subdirectory contents.
- Identify duplicate files among diskettes.
- Add volume labels to disks and diskettes.
- Arrange catalog file alphabetically by filename, by extension, size, comment or name of the residence diskette.

The Tracker will read directories in your software library and catalog them so they can be located. At your request a listing of all files or selected ones can be displayed or printed. The Tracker calculates diskette space so it is easy to see where file assignments should be made, for maximum efficiency.

**Environment:** PC, PPC, XT or AT with 128k two drives or one plus hard disk and DOS 2 up.

## **Dow Jones® Market Analyzer 6871417 \$349**

The program provides an analysis tool for Dow Jones News/Retrieval.

### Highlights

- Provides entry of one year of daily historical data on stocks, automatic updating of daily data on stocks, bonds, mutual funds and options.
- Allows for input of special indicators.
- Stores data on 104 stocks for 128 days or 52 stocks for 256 days on one diskette.
- Provides access to all News/Retrieval services.

The Dow Jones Market Analyzer is a technical analysis program that can increase the accuracy of investment decisions. Using information from Dow Jones News/Retrieval, it constructs price and volume charts, wedge breakouts, moving averages, support and resistance lines—a total of 17 complex analyses. Now a user can chart up to 100 securities in the time it would have taken to chart one manually.

The Market Analyzer automatically collects historical and daily quotes from Dow Jones News/Retrieval and stores the information for later review. A user can construct relative strength and analysis charts or individual price and volume charts with moving averages, straight line constructions, price/volume indicators, oscillator charts and more. It provides access to pricing and financial data from Dow Jones News/Retrieval.

**Environment:** Requires a PC or XT with 128k, two drives or one plus a hard disk, Graphics Printer, Graphics CRT, Asynchronous Communications Adapter, modem and DOS 1.1 or later.

## **Dow Jones® Market Manager 6871418 \$299**

This program consists of investment analysis tools and aids.

### **Highlights**

- Maintains individual tax lots within up to 26 portfolios
- Maintains up to 500 open tax lots
- Accommodates buy, sell, short sell and buy-to-cover transactions
- Provides cash entry system for total portfolio value
- Tracks stocks, options, bonds, treasuries and mutual funds
- Rolls over year-end positions
- Supported by Dow Jones and Company Customer Service Hotline

The Manager is a portfolio manager designed for active private and professional investors. The user has immediate access to vital investment analysis information from Dow Jones News/Retrieval. Current stock market quotes are available on over 6000 securities, delayed as little as fifteen minutes. The program provides access to pricing and financial data from Dow Jones News/Retrieval.

**Environment:** Requires a PC with 128k, two drives, matrix printer, Asynchronous Communications Adapter, modem and DOS 1.1 or later.

## **Dow Jones® Spreadsheet Link 6871488 \$249**

The Link connects Dow Jones News/Retrieval to VisiCalc®, Multiplan™, or 1-2-3™. A user can move information from Dow Jones directly into a customized spreadsheet, saving valuable time and eliminating tedious data entry tasks, then process this information as he chooses.

## Highlights

- Saves time and reduces error by placing retrieved information directly into the spreadsheet.
- Allows efficient transfer of information of the Current Quotes, Historical Quotes, Media General Financial Services, and DISCLOSURE II databases into VisiCalc, Multiplan, or 1-2-3.
- Accesses all Dow Jones News/Retrieval data services.

**Environment:** Requires a PC or XT with 128k, two drives or one plus a hard disk, matrix printer, Asynchronous Communications Adapter, modem and DOS 1.1 or later.

## EasySpeller® 6085984 \$125

**EasySpeller** is a general purpose spelling checker that scans any document in the DOS ASCII format.

## Highlights

- Extensive use of single stroke function keys
- Interactive correction with questionable words shown in context
- Correction verification
- Detection of imbedded capitalization, uncommon prefix and suffix, probable abbreviations and uncommon usage of hyphenated phrases
- Global search and replace of character strings
- Creation of any number of custom word lists, limited only by file space available
- Additions, from text, to custom word lists accomplished with a single key stroke
- Use of as many as five customer vocabularies, plus EasySpeller, in a single session
- Continually displayed option menu
- Plain English error messages such as 'improper capitalization' or 'strange character'

- Interfaces with EasyWriter®

The EasySpeller has a dictionary of 88k words stored in only 94k of disk space. It is compatible with Easywriter and DOS files.

**Environment:** DOS and two drives.

## **Electric Desk Jr 6187243 \$295**

Electric Desk is an integrated, multitasking software package.

### **Highlights**

- Spreadsheet
- Communications
- Data base
- Word processing
- Windowing
- Concurrent operations
- Macro programming language
- Help screens
- ASCII file compatibility

The integrated feature of Electric Desk Jr allows each function to transfer data to or from any other function with no disk switching necessary. Electric Desk's word processing provides most standard features available on most stand-alone word processing packages. The spreadsheet portion is 255 rows by 255 columns. The database manager component of Electric Desk stores up to 64k records and provides extensive indexing. The communication option, in addition to standard electronic mail and commercial data base access capability, also allows users to automatically dial telephone numbers stored in a file.

Multitasking enables users to work with several functions at once so that one can be operated, while the others are interrupted and temporarily put on hold in the background. The macro language enables users to program functions they need to perform frequently, such as a repetitive series of calculations, or often user blocks of text, into two simple keystroke commands.

**Environment:** 128k, one drive, matrix printer and DOS 2.1 with the PCjr.

## **Excelerator 6187282 \$8,400**

This is a workbench for the professional systems analyst. All the capabilities required to design and document almost any software or other system are provided in one integrated environment. It is a tool designed by professionals for professionals.

### **Highlights**

- Facilities for developing data flow diagrams, data model diagrams, structure charts and presentation graphs
- Facility for designing screen specifications and prototypes of the screens being used
- Facilities for designing mockups of reports and for reporting on the contents of the dictionary
- Facilities for validating the design, and complete dictionary cross-referencing
- Mouse-activated features that can be learned quickly
- Compatible with 1-2-3™, Microsoft® WORD, DisplayWrite 2 and other programs which recognize subdirectories.

Graphics are activated by mouse. You create data flow diagrams, data model diagrams and structure charts in minutes. Using the presentation graphics you can draw terminals, people, floppies, reports and much more.

The dictionary is the repository for all the information about the system in design, including programs and processes, data items, records, files, data bases, procedures etc. Built-in facilities support data transfer from and to mainframe data dictionaries.

The Screen Painting facility encourages you to develop prototypes of the user interface including edit rules and 'help' messages. Report layouts are easily developed.

Excelerator does for the system analyst what CAD/CAM has done for the design engineer. It automates much of the production of verifiable system specifications.

**Environment:** 3270-PC with 640k, color CRT and DOS 2.1



## **Executive Phone Directory 6276533 \$40**

Phone directory features with message transmittal. Access numbers and send messages to interconnected PCs. This offers the user the services of an online directory plus a message generation function designed for office automation. Messages received at your PC can be dialed automatically as you edit your message list.

### **Highlights**

- Generate messages with minimum keying, including canned text messages.
- Store, print, edit, forward or autodial received messages.
- Use autosend, autoretry until receiving station is available.
- Receive audible and visual alert that a message is waiting.

Use this program on two PCs, for you and your secretary or PBX operator serving several phones. to use the message feature you need to be a member of a PC Cluster (described in these pages).

**Environment:** PC, XT, PPC, PCjr or AT with 128k, one drive, IBM PC Cluster Adapter, Asynchronous Adapter, Autodialing Modem (optional for autodial), PC Cluster Program, DOS 2.1, 3 or 3.1

## **FileCommand II 6276558 \$20**

Access your files easily from any drive. Enter DOS commands next to filenames and invoke files from a sorted list. View your directories, select files or enter DOS commands next to filenames. Select files from a sorted list. A file directory is combined with a multiline command area.

### **Highlights**

- Scroll through the directories and sort them.
- Issue many DOS commands at once, up to 63 characters.
- Redefine keys to modify FileCommand to fit your own use of DOS.
- Set screen colors.
- Issue DOS commands to multiple files and invoke by keystroke.

New features in FileCommand II:

- Full color support
- An option to select and control what is displayed

- An option that lets you specify a command to be executed before FileCommand commences operation
- Simulation of screen operations as part of a key definition
- Improved keyboard buffer handling
- Panic stop mode lets you stop execution midway
- Ability to create and use DOS files.

The directory support enables you to sort files by size, date of creation or last saved, alphabetically, by drive and directory path. Substitution capabilities permit batch-like function.

**Environment:** PC, XT, PPC, PCjr and AT with 128k and one drive; minimum DOS levels are (respectively) 2.0, 2.0, 2.1, 2.0, 3.0.

## **File Conversion Utility 6276629 \$30**

This program is designed primarily, but not exclusively, for Lotus 1-2-3™ and Symphony™ users. It eliminates the time-consuming and error prone task of retyping PC file data into a format acceptable to the 'Import' function of these two spreadsheet programs. File Conversion quickly formats the data you need for easy transfer to other PC users or your favorite spreadsheet program.

Simple questions or instructions needed to convert your data are presented throughout segments of your original PC file; save your responses to use with later or similar data, or for batch processing.

- Specify criteria for automatic extraction and conversion of rows and columns of tabular data.
- Tailor the contents of a file to your specific needs.
- Customize your display's color combinations.
- Follow the program's 'twenty question' approach.
- Use help screens to get through each program question or instruction.

**Environment:** PC, XT, AT, PCjr or 3270-PC with 128k of memory, one disk drive and DOS 2.0 or later.

## **File Facility 6276530 \$20**

Extend the function of the 'path' command to read or write files on any drive or directory.

## Highlights

- Select file placement with flexibility.
- Access files across subdirectories. This eliminates the need to include all files required by the program in the current directory.
- Start File facility, once in RAM and it remains permanently available.
- Redefine the search path at will.

Save yourself effort. With the ability to access files across drives, directories and subdirectories you can reduce the occurrence of duplicate files.

**Environment:** Same as FileCommand II.

## Financial Management TK!SolverPack™

6871342 \$100

The Pack contains thirteen models, each of which has the equations, values and tables necessary to solve problems involving compound interest, net present value, level of debt service, cost of equity capital, analysis of financial statements, stock option pricing, bond swaps, convertible debt, and bond funding decisions.

## Highlights

Provides for:

- Solving equations.
- Converting units of measurement.
- Computing and formatting tables.

This program is compatible with all Software Arts products.

**Environment:** 128k on a PC or XT, two drives or one plus hard disk, DOS 1.1 or later and TK!Solver™

## Fixed Disk Organizer 6024111 \$55

The Organizer simplifies the job of disk layout and management. It is a handy and very useful development tool.

## Highlights

- Allows the user to organize the fixed disk with simple menus.
- Allows access to hundreds of user programs with a few keystrokes. A menu can have up to five pages—with nine options per page.
- User has the ability to create complex batch files that are easily selected through the menu.
- Links current IBM software applications through user-defined menu options.
- Online 'help' text can be produced with most ASCII text editors.
- User-defined passwords help prevent unauthorized access to data.
- Automated fixed disk installation utility is included.
- Supports both color and monochrome monitors.

This is a tool that takes full advantage of the fixed disk drive. It can increase productivity by allowing the user to create menu options that perform complex sets of DOS application instructions and commands. Once these instruction sets are defined, they are saved and available with a single keystroke.

**Environment:** PC or XT with 128k, hard disk and DOS

## Flight Simulator 6871290 \$49

Flight Simulator is a simulation of flight in a single engine aircraft.

### Highlights

- Introduces flight fundamentals.
- Is adaptable to a range of interests, experience and ability.
- Builds familiarity with flight instruments and controls.
- Flight is simulated under variable weather conditions.
- Requires but little PC familiarity.
- Keyboard skills are developed, as the instrument panel is simulated.

With Flight Simulator, working instruments, panoramic out-the-window graphic views and real time flight conditions give players the excitement of flying in a plane. Adaptable to any interest or ability level, Flight Simulator can fly in a flight mode specifically tailored for beginners. After mastering

the fundamentals of flight, a player can move to the reality mode and fly in more realistic situations.

Flight Simulator gives players use of the flight instruments and controls. Instrumentation accuracy meets the FAA regulations Part 91.33, for day and night, visual and instrument flight conditions. Flight Simulator includes over twenty actual airports with varied and detailed terrain at each location. Players can alter environmental factors such as the weather, time of day, and season to simulate the same flight conditions a pilot faces.

For a change of pace, players can choose the British Ace game mode and transform their flight world into World War I Europe. They fly across enemy lines, shoot down enemy fighters, hit bombing targets and try to avoid being shot down.

**Environment:** PC or XT with 64k (128k for PCjr), color, DOS 1.1 or later.

## **FORMS-2™ 6871463 \$400**

**FORMS-2** is designed to provide options to the Micro Focus Level II COBOL™ program that enables interactive creation documentation and editing of entry screens for application programs.

### **Highlights**

- 'Help' screens summarize all commands.
- Operator interface is via menus.
- Screen layout designed on the CRT.
- Full cursor controls are available.
- User confirmation required to overwrite files.
- Screen formats saved and read back on subsequent runs.
- Screen images held on standard text files.
- Screen images read in at run time and displayed.
- Automatic generation of COBOL data descriptions directly from screen layouts.
- Either file sequence number or screen coordinates can be incorporated in generated data names.
- Complete indexed sequential file maintenance program provided.
- Check-out program is built in.
- Allows verification of screen layout and interaction.

**FORMS-2** is an extension to Level II COBOL (page 2-91) that enables interactive creation and editing of data entry screens for application programs. The package contains four facilities to aid the design and development of interactive applications written in Level II COBOL.

A user can choose any combination of the four facilities. Dependent on the options selected, FORMS-2 automatically produces the following types of disk output files: a source file of Level II COBOL data description statements defining the user-designed screens, a source file of a check-out program incorporating the data description statements defining the user's screens, screen image files of copies of the user-defined forms and a file of the source of an index program based on the user screen.

**Environment:** PC, XT or 3270-PC with 128k, one drive, DOS 1.1 or later and Level II COBOL.

## **Interactive FORTRAN Compiler (INfort)**

6410971 \$275

**FORTRAN** is a programming language especially suitable for solving or simulating mathematical and logic problems. INfort is an implementation of the full FORTRAN 77 standard on the PC Interactive Executive (PC/IX) operating system.

### **Highlights**

- INfort is designed especially to be terminally oriented for PC/IX.
- Variables can be allocated dynamically on the runtime stack which saves data space.
- EFL and Ratfor structured preprocessors are provided.
- Object code is compatible with the output of the C compiler. C routines thus are combinable with a FORTRAN program.
- Debugging, tracing and profiling facilities of C are useable equally by this FORTRAN.
- The 8087 Co-processor is supported for heavy duty number crunching.
- Programs are limited to 64k. An associated 64k data area is available.

### **Potential Benefits**

- Existing FORTRAN programs now can migrate to this new PC/IX environment saving much of the cost of a rewrite.
- Professionals and scientists now can extend the mathematical sophistication of their C programs by incorporating FORTRAN routines.

*Note:* INfort is available as implemented on the S/370 under VM/IX as program number 5799-BZH.

## **NAG FORTRAN PC50 Library 6187277 \$345**

The Library supports the IBM PC Engineering/Scientific Series. It consists of fifty of the most widely used routines from the 524 in the NAG FORTRAN Library. They cover a wide range of topics in mathematical and statistical computing:

- Zeros of polynomials and transcendental equations
- Fourier transforms
- Quadrature
- Ordinary differential equations
- Non-linear optimization
- Linear algebra
- Basic statistics
- Random numbers
- Linear programming
- Special functions

The handbook included contains over 350 pages of advisory information and individual routine documents, with an appendix specific to the IBM Professional FORTRAN compiler.

A very desirable feature of the Library is the inclusion of complete example programs. These source programs show how to input data, call a routine from the Library for larger computers. This compatibility is valuable when developing programs on a PC for another computer.

**Environment:** PC, XT, AT with 192k, Math Co-processor, two drives or one plus hard disk and the Professional FORTRAN Compiler.

## **Framework™ 6187185 \$695**

**Framework** is an 'integrated' software product that allows users to work with words, numbers, and graphic displays within a single program.

## Highlights

- Integrated architecture including word processing, data base, graphics and communications
- Unique outline mode for organizing material
- Extensive programming language capability for developing custom applications
- Easy to learn for the first time user
- Integrated text material and graphics
- Communication with mainframe computer and other data sources such as public data bases
- FRED, a rich procedural language

Included in Framework are a full featured word processor, a fast spreadsheet, business graphics, data manager, and a unique outlining generator. Framework's outline provides an instant overview that helps even the most complex analysis of reports. Communications capability for accessing information from other computers or data services is included. Framework provides a close coupling with dBASE II™ and dBASE III™ and the capability to use files from 1-2-3™, WordStar®, and other standard formats. An advantage of Framework is its ease of use:

- Extensive help screens
- A minimum of keystrokes for each operation
- Natural and convenient movement of information between the different functions
- A user interface which includes definition lines for each menu item

The FRED programming language allows custom applications to be developed using the full capabilities of Framework, but tailored to a specific function or application, so that the end user works with screens which are simulated forms.

**Environment:** PC, XT, AT, 3270-PC with 256k, two drives or one plus hard disk, matrix printer and DOS 2or later. RT requires 384k.

**Free Enterprise® 6871303 \$100**

This program is designed to simulate a business environment; and to encourage the users to test their wits against the competition.



## Highlights

- Three levels of competency
- One to six players
- Simulates the operation of companies

The program simulates the operation of up to six companies, all making the same product that sells in several geographical areas. Each company has its own home area. In addition, there is a common market area equally accessible to all companies.

Players, acting as presidents of the companies, make business decisions based on quarterly reports. Depending on the level of play, these decisions concern product price, advertising budgets, production cost, money spent on plant improvements and research and development, bank loans, and stockholders' dividends. The suggested measure of success is the stock price, but the players can use other agreed upon criteria.

**Environment:** 64k, one drive and DOS 1.1 or later

## Friday!™ 6871458 \$295

**Friday!** is designed for the user who knows little about computers, yet requires a powerful electronic filing system.

## Highlights

- Allows users to select specific information for displaying or printing.
- Allows for file design changes.
- Requires no programming knowledge.
- Provides arithmetic and logic operations.
- Compatible with dBASE II™

Friday! is an easy-to-understand program that provides file management and report writing. It supports data entry and retrieval, sorts and searches. It lets a user build customized screen and printer formats. A user can select the specific information to include in a report. A user can also temporarily sort data for display or printing without affecting the stored order of records.

Friday! can add, subtract, multiply, or divide values and can insert totals and subtotals into a report. It also allows a user to expand abbreviations and coded numbers included in reports.

A user can use Friday!'s standard format to enter data or he can prepare his own screen format for Friday! to use. In addition, Friday! has a mailing list system that prints form letters and custom labels.

**Environment:** PC or XT with 128k, one drive, matrix printer and DOS2.

## **FriendlyWare™ PC Arcade 6871361 \$49**

FriendlyWare features ten games on one diskette. It is written in text mode to accommodate monochrome or color monitors. A 'Boss is coming' key is supported. And it operates with or without a joystick.

The ten games are:

ASCII Man	Hopper
Brick Breaker	PC Derby
Bug Blaster	Shooter
Eagle Lander	Starfighter TX 16
Gorilla Gorilla	Robot War

**Environment:** 64k and one drive.

## **Graphwriter Combination Set™ 6871477 \$595**

**Graphwriter** is a business graphics package that is designed to be used to produce presentation graphics. It contains formats that are included in both the Graphwriter Basic and the Graphwriter Extension Set program packages.

### **Highlights**

- Optimized for high resolution pen plotters
- Pre-programmed formats
- Variety of charts

It allows the user to select from a wide variety of formats:

Column Chart	Bar Chart
Segmented Bars (vert)	Segmented Bars (horiz)
Clustered Bars (vert)	Clustered Bars (horiz)
Line Chart	Bar-line combination
Pie Chart (1-4 pies)	Scatter Plot (regression)

Text/word Chart  
Gantt chart  
Bubble Chart  
Pie-bar Combination  
Line-Table Chart  
Grouped Bars  
Paired Bars

Overlay Chart  
Organizational Chart  
Table Chart  
Surface Line Chart  
Double Stacked Bars  
Range Chart (bars)  
Horizontal Bars (inset labels)

Formats are pre-programmed to provide a quality chart with no user intervention other than data input. However, the user can change the preset default values to create his own style, layout, size and orientation of the chart.

**Environment:** Requires a PC, XT or 3270-PC with 128k, two drives or one plus a hard disk, plotter and Asynchronous Communications Adapter. Supports hard disk and color CRT. Compatible with any program that im/exports DIF files.

## **Harvard Project Manager™ 6871481 \$495**

The Harvard Project Manager brings the power of Critical Path methods and Program Evaluation Review Techniques (PERT) to the desks of professionals and managers.

### **Highlights**

- Project network is pictured on CRT.
- Schedule is displayed on CRT when changes occur.
- Permits contingency planning, what-if questions.
- Task duration can range from minutes to years.
- Sub-product technique availability permits design of programs limited in size only by hardware capacity.
- Windowing allows network and schedule to be displayed simultaneously.
- Permits printouts of network, schedule and a variety of reports.
- Critical path displayed on PERT chart screen and immediately updated.

It provides the capability for managing project times, controlling project costs, planning and allowing for contingencies, optimizing projects, tracking projects and producing a variety of reports for both upper and middle management.

The package has a demo/workshop tutorial included on the diskettes and encourages the user to become proficient within a matter of two hours. Only selected functions are presented. The 'help' file can be windowed in

and will remain on screen assisting new users until they feel comfortable enough to remove the file.

**Environment:** Compatible with programs that im/export DIF file. Requires a PC or XT with 192k, two drives or one plus a hard disk, matrix printer and DOS 1.1 or later

## High Level Language Application Program Interface

1753180 \$139

This 3270-PC program encourages the user of BASIC Compiler, BASICA, COBOL and Pascal to access the host, notepad and workstation control sessions. It can generate host transactions, simulating the keystroke activity of a terminal operator. When the host responds, the host presentation space is read by the PC program. In this manner the program simulates a programmed operator, and can read data from the host using existing 3270 type applications.

### Highlights

- Access to host windows, notepads and workstation control is provided.
- The PC can transmit keystrokes to any accessed presentation space.
- Procedures are provided to examine the status of the session.
- The presentation space may be copied to an ASCII string.
- The presentation space may be searched for a given string of characters.
- Documentation includes interfaces to languages other than those supported.
- ASCII interfaces to host data are provided for ease of use.

**Environment:** Requires a 3270-PC model two, four or six, Control Program 1.2 and DOS 2.1 or later.

## Information Systems For Attorneys Series 500

Client Files, Conflicts and Dates 6187249 \$450

**Manac Systems** are an integrated series, each designed to manage the information relevant to a particular aspect of your practice. The systems are structured with sufficient flexibility to permit adaption to the unique requirements of your law firm as well as the preferences of individual lawyers.

### Highlights

- Classifies and retrieves client and matter descriptive data.
- Records archives numbers.
- Advises of bring forward dates.
- Identifies potential conflicts.
- Registers all court and procedural date deadlines.
- Ensures commitments are met by notifying lawyers as the date approaches

Manac Systems have been installed on IBM computers in Law Firms of widely varying sizes, practices and demands.

**Environment:** XT (DOS2) or AT (DOS3) with 256k, two drives or one plus hard disk, matrix printer and BASIC compiler.

## Information Systems Management Analysis

6316974 \$549

This program automates some functions of informations system processes as defined in the Information System Management Architecture.

### Highlights

- It is menu-activated with extensive error detection.
- 'Help' screens are included.
- The output of survey forms is tailorable.
- Up to forty survey respondents are supported.
- Instructions for performing the survey are included.
- Special data entry is provided.
- A planning facility is built in.
- The Information Systems Management Architecture processes are defined.

- A process-to-data analysis facility is provided for implementation support.

**Environment:** PC or XT with 128k, two drives or one plus hard disk, matrix printer and DOS 2.0 or later.

Use the Order card in back to request brochure G320-0908.

## **Interactive Message and Network System**

(INmail/INnet/FTP) 6410976 \$329

Now the multiple users of the PC Interactive Executive (PC/IX) operating system can send and receive files, messages and programs among themselves, as well as the UNIX™ world at large.

### **Highlights**

- It is initiated when you use the *INed* editor. No special commands are needed, so it's easy to use.
- Messages and files are composed, edited and read using a standard form menu along with a PC/IX editor.
- Connection to other UNIX computers through *uucp* is supported, without limitation to INnet or PC/IX.
- Each user has a primary private mailbox for the send/receive function. You can create additional boxes and place mail in them by using a pop-up menu. The menu implements your selected choice: send a message, reply to a message, forward a message, read a new message, file a message.
- Incoming electronic mail is queued until you put it into your mailbox. It can be browsed, selected, filed or deleted
- There is a substantial 'help' facility, and each user can customize his mail--sending, receiving, forwarding, etc.
- The user can select a part of the full system, e.g. local printing but not remote printing.
- An incoming message, file or program can be received by a corresponding (user written) 'catcher' program, which is activated e.g. for remote data retrieval, processing and reply.

- A network might designate one member to be a master and function as a gateway to a S/370 or other host CPU. A non-UNIX host might be accessed via a DOS program.

### **Potential Benefits**

- The time wasted on telephone tag is reduced dramatically. Electronic mail is a quite suitable option for a substantial amount of telephone dialog.
- Professionals can gain a sizeable advantage when they can transmit the text of a message plus the associated data files instantly. A windfall saving results as the burden of data gathering and transmission upon the principal's staff is lightened.
- There is economy in sharing the I/O devices of a network.

**Environment:** Requires PC/IX with Asynchronous Communications Adapter (1502074). Connection via hardwire between asynchronous ports or modem is supported.

## **IX Integrated WORD/MATH 6316989 \$659**

This is an office automation program that runs under PC/IX (an operating system derived from UNIX™ System III). It features the Horizon Word Processor integrated with a table editor. The editor may be used as a financial spreadsheet model with an extensive command set or within a document with a simplified command set. Screen arithmetic, block manipulation and sorting are editor functions.

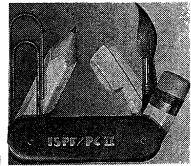
Although the operator interface is not hard to learn, it is efficient. Menus may be turned off and most commands execute with one keystroke. Formatting includes right justification, multiple formats per document, block or cell manipulation and editing within tables and user-specified page breaks.

**Environment:** The PC, XT and AT model 99 require 256k and a minimum ten MB hard disk. PC/IX is described on page 2-142.

Use the Order card in back to request brochure G320-9223.

## ISPF/PC EZ-VU II

Runtime Facility	6317025	\$59
Development Facility	6317026	\$495
ISPF/PDF PC Editor	6466974	\$150



These programs are complementary to the ISPF host family.

The programs can avoid the backlog associated with application development by answering requests faster. They provide a cost-effective solution to application development, execution, installation, maintenance and use.

**Development Facility and Runtime Facility** streamline development and processing of interactive applications. Development develops the dialog between user and PC. This includes defining and developing the screens and data fields, establishing the flow of the application and handling the programming language interface. The Runtime Facility is the dialog manager, which carries out and processes the applications. This handles the transfer of information between the user and the display panel.

**ISPF/PDF PC Editor** offers a range of editing capabilities for faster editing of PC and host applications. Because the PC and host ISPF editors are so similar, transferring skills from one to the other is easy.

### **Development Facility**

- Supports many languages: C, Macro Assembler, Pascal, FORTRAN, COBOL, BASIC and Compiled BASIC.
- Online tutorial and examples in BASIC, C, COBOL, FORTRAN and Pascal.
- Create and design screens easily; test for usability before the development cycle.
- Assign display attributes such as low intensity, blinking characters, or special colors.
- Display multiple panels per screen.
- Define various levels of help panels and messages.
- Include messages at field level and panel level.
- Define up to forty function keys.
- Specify how to select fields to users.



- Library utility feature for predefining parts of applications for reuse.
- Integrate other PC packages with ISPF/PC II.
- Develop panels on the PC that will easily transfer and convert to host panels.
- Control PC hardware resources with Configuration and Profile Dialog features.

### **Runtime Facility**

- Provides a consistent user interface from application to application.
- Establishes and controls the environment for executing a dialog.
- Provides services to make dialog development and execution more productive.
- Eliminates coding of interfaces between two applications through application control capabilities.
- Provides an interface to certain DOS functions.

### **ISPF/PDF PC Editor**

- Runs under the Runtime Facility.
- Edit entire program or line by line.
- Enter and execute multiple edit commands at one time.

**Environment:** PC, XT AT, PPC, 3270 (Models AT, G, GX, AT/G and AT/GX) with two drives (or one drive plus a hard disk) and 256k.



## **JoyMouse 6276606 \$15**

Is it a keyboard, a joystick, a mouse?

Substitute a joystick for the keyboard, and move the cursor with the speed of a mouse.

### **Highlights**

- Assign one of nine speeds for cursor movement.
- Choose one speed for either horizontal or vertical movement.
- Assign key functions to joystick buttons.
- Redefine joystick buttons for different programs.

JoyMouse allows the joystick, connected to the Game Control Adapter to be used for cursor movement. When your program is ready for you to press

cursor movement keys, simply move your stick. Install JoyMouse as part of DOS using a modest amount of memory.

You can define joystick buttons to perform the tasks of up to three functions keys or combinations. For example, instead of using a command as Ctrl + F6 to delete a line of text, you can simulate it with the touch of a joystick button. Simply assign first and second buttons to serve as keys and program a third key by pressing two buttons at once.

**Environment:** PC, XT, PPC, PCjr or AT with 64k, one drive, joystick and DOS 2.0, 2.1, 3.0 or 3.1.

## **Leaf Structure & Function 6871486 \$70**

This program is designed for general science and biology curricula.

### **Highlights**

- Interactive simulations in which students alter variables
- Detailed diagrams
- Experimentation with phenomena that could not otherwise be observed in a short time, such as the opening and closing of the stomata

Color graphics illustrate the anatomy and physiology of the leaf. Students explore the role of the leaf as the chemical factory of the plant. Challenging simulations, in which students can alter variables, provide feedback.

The documentation is written for educators by educators. Included are structural objectives, timelines, suggested activities, and reinforcement exercises. The package has concise review and information screens throughout the program, graded quizzes after each unit module, and a separate on-screen testing module.

**Environment:** Requires a PC, XT or PCjr with 128k, color CRT, matrix printer, one drive and DOS2.

## **Local Area Network PrintManager 6317042 \$800**

The PrintManager encourages members of the Network to share an IBM 3820 Page Printer. It attaches to a designated PC which may be used as a normal LAN member when the 3820 is inactive.

PrintManager adds user-specified formatting parameters to ASCII print or text files created by an application program, and invokes Network print services which transmits the file to the PC acting as the print server. The server transmits the file to the PrintManager device driver for printing on the 3820. A series of hierarchical menus are presented to the user to specify page format and invoke the services of PrintManager. Selectable parameters provide facilities to

- Select one of four print rotations: 0, 90, 180, 270 degrees.
- Select paper size.
- Select simplex or one of two duplex print modes.
- Set margins.
- Set initial line spacing.
- Specify the number of copies of the entire print file.
- Set an error limit threshold.
- Set tabs.
- Select the fonts to be used with each job.
- Select from fifty-four IBM-supplied, uniformly spaced and mixed-pitch fonts—including representations of IBM 5152 fonts.
- Specify the paper source as either the paper bin, cassette or one of two predetermined combinations from both the bin and cassette.

### **Environment**

The Corvus OMNINET™ is supported as an alternate to the IBM PC Network.

- The 3820 is attached to the PC designated as the file or print server. It must be an XT, PC or an AT with hard disk and 512k. In an OMNINET the 3820 is attached similarly but AT is not supported.
- A member of the IBM PC Network using PrintManager facilities must have 384k, or 256k for OMNINET.
- A Network member may have both IBM PC Network and OMNINET adapters but only one may be active alternately.
- The PC designated as 3820 server requires an SDLC communications adapter card and communications cable. EIA Interface cable is required for modem attachment.
- Self-clocking external modems or modem eliminators which support EIA RS232C interface and protocol supporting point-to-point non-switched common carrier service are required.

- DOS 3.1 or later is required for the IBM PC Network program. DOS 2.0 or 3.0 up, plus appropriate support is required on OMNINET.

You may request these publications on the Order card in back.

3820 Executive Brochure	G520-5023
3820 Facts Folder	G520-5102
3820 Print Sample Kit	G520-5097
3820 LAN PrintManager	G544-3184

## **Managing Your Business with Lotus 1-2-3™**

6871428 \$70

This teaches the user to analyze Return on Sales, Asset Turnover, and Financial Leverage.

### **Highlights**

- The best bottom line—return on equity
- The basic ingredients of return on equity
- Managing operations—return on sales
- Managing assets—turns
- Managing financial structure&mdashleverage
- The Cdex™ profit model

Includes the following Profit Model Templates:

- Sales history and forecast
- Product margin analysis and forecast
- Departmental expense budget
- Profit and loss statement
- Cash flow projection
- Materials requirements plan
- Accounts receivable records and analysis
- Accounts payable records and analysis
- Balance sheet
- Cdex profit model

This program teaches you to use Return on Equity to measure your business success and profitability. Managing Your Business teaches you to analyze Return on Sales, Asset Turnover, and Financial Leverage using 1-2-3.

Using the program, you may input data from your own business. The Cdex program helps the user to calculate several key performance measures to

determine the success of the business. The data may be used in the Cdex templates (pre-formatted worksheets).

**Environment:** PC, XT, 3270-PC or XT/370 with 64k, one drive, DOS 1.1 or later and 1-2-3.

## **Managing Your Money™ 6187279 \$199**

Andrew Tobias' Managing Your Money is an integrated home financial program.

### **Highlights**

- Provides a complete checkbook and budget program.
- Helps with tax planning.
- Tracks net worth.
- Evaluates a family's life insurance.
- Allows the user to record, code and analyze his investments.
- Tallies realized and unrealized gains and losses.
- Suggests optimal tax strategies.
- Prints a Schedule D.
- Calculates tax shelter and rental property internal rates of return.

The program provides a checkbook and budget program and helps track your net worth. It can also help you evaluate your family's life insurance. The program allows you to record, code and analyze your investments and reminds you of long-term investments.

Managing Your Money serves as a reminder pad, a budget and checkbook program, helps with tax estimation, can be a financial calculator as well as a portfolio manager and a personal balance sheet.

The idea is to make it your financial control center...to have what you're likely to need in one place, working together. This helps avoid having to buy and learn separate programs or reenter the same information several times.

The different chapters of the program work together, but you don't have to use them all.

Chapter One is Hello, New User, the on-screen tutorial. It explains what you need to know to get started and includes instructions for use of some special features, like our instantly accessible calculator.

Chapter Two is the Reminder Pad. It helps you remember birthdays or tax shelter payments.

Chapter Three is for your Budget and Checkbook. If you write a check to the doctor here (after the first time, it will only take five or six keystrokes to do so), your checkbook balance automatically knows, your budget automatically knows, your cash flow projection automatically knows, Schedule A of your taxes in Chapter Four automatically knows, and so does Chapter Eight, your net worth.

Chapter Four is a Tax Estimator that handles schedules A, B, C, D, E, G, W, and the Alternative Minimum Tax. All you have to do to see a schedule is press its letter. Also, it is easy to accommodate changes in the tax code.

Chapter Five, Insurance, contains actuarial information. It helps you calculate how much life insurance you need and tells you what it may cost. It also helps you record and organize all your insurance policies in one place.

Chapter Six, the Financial Calculator, acts like a pocket calculator will—but in plain English. It will figure the payments on a 30-year, 12 3/4% mortgage. It can also calculate the yield to maturity of a bond. There are also subsections to help plan for Retirement; project rates of return on prospective Rental Properties and Tax Shelters; and analyze/ organize your Loans.

Chapter Seven, the Portfolio Manager, helps you understand the difference between taxable, non-taxable and hypothetical portfolios. You may use it for your stocks, bonds and options; someone else may use it to catalog and code stamps, coins and antiques. This chapter will help you minimize taxes through management of capital gains and losses, and remind you as your securities are nearing long-term.

Chapter Eight takes what it knows about you from the other chapters, allows you to add as much or as little detail as you want, and keeps track of your Net Worth.

A demonstrator is available as 6187304 for five dollars. Please refer to the NOTE on demonstrators in the introduction to this section.

**Environment:** PC, XT or AT with 128k, PCjr with 256k, one drive, matrix printer and DOS 1.1 up.

## **MATH/LIBRARY™ 6187270 \$440**

This library supports the IBM PC Engineering/Scientific Series. It offers a selection of the most frequently used FORTRAN math routines from the IMSL Library. This subset is designed to meet the demand for advanced problem solving software for microcomputers.

The user can select complete, tested routines rather than writing them. This eliminates much of the time required to develop a FORTRAN application.

**Environment:** PC and XT require 128k, one drive and DOS 2.1 up. AT requires 192k, one drive and DOS 3.0 up. All require the FORTRAN compiler and Math Co-processor.

## **Mechanical Engineering TK!SolverPack™**

6871345 \$100

The Solver contains thirteen models, each complete with the equations and values necessary to solve problems involving analysis of elastic beam bending, springs, area moment of inertia, Mohr's circle, rotational systems, heat transfer, fluid flow, and hydraulics. The models are usually as is, or can be modified by the user.

### **Highlights**

Provides for

- Solving equations.
- Converting units of measurements.
- Making tables.

It is compatible with all Software Arts products.

**Environment:** Requires a PC or XT with 128k, two drives or one plus hard disk, matrix printer and DOS 1.1 or later. Supports hard disk.

## **Member Services 6276566 \$30**

Maintain accounts for rental, condominium or association units. This is a multifunction program to maintain organization accounts. It is designed to improve management to financial objectives and to produce status reports and letters to members.

### **Highlights**

- Print reports and directories sequenced alphabetically, by account number or unit number.
- Make inquiries by entering part of a last name, an account number or unit number.
- Maintain YTD credit history even after an account is closed.
- Produce form letters and mailing labels.
- Maintain up to 600 accounts per program.
- Track deposits, late charges, individual charges and up to ten global charges.
- Provide separate mailing addresses for absentee owners or members.

An extensive billing program is included. You can choose to include late charges and add your own text to bills and delinquency notices.

**Environment:** PC, XT, PPC, AT or 3270-PC with 192k, two drives, matrix printer and DOS 1.1, 2, 2.1, 3, 3.1

## **Microsoft™ Mouse 6871347 \$175**

The Mouse is designed to give the user the freedom of cursor movement without having to use the keyboard. It is a hand held pointing device that controls the movement of the cursor on the screen.

Designed to be used with a variety of CRT oriented programs, the Mouse frees you from the dependence on direction and text keys to move the cursor and make command selection options on the display.

By sliding the Mouse across the desk top, a user can guide the cursor to the words and symbols that represent the commands of a program. By pressing the buttons on the mouse a user issues the commands that are to be performed. This program is compatible with Microsoft Word.

**Environment:** PC with 64k, AT or XT with 128k, one drive, a mouse and DOS 1.1 or later.



## **Microsoft® Project 6086003 \$395**

This project management aid assists with scheduling and costing functions. It creates schedules ranging from simple to complex using the critical path method. When certain data are entered, it calculates time and cost; then displays a charted schedule.

The schedule sometimes is termed a Gantt chart. It illustrates when each activity begins and ends and which tasks need most attention to assure on time project completion. When project data are altered the entire project may be recalculated integrally and displayed immediately.

A demonstrator is available; order 6871472 \$63. See the note on demonstrators in the preface of these rose pages.

**Environment:** PC, XT, AT and 3270-PC require 128k two drives or one plus hard disk matrix printer; color and mouse are supported. PCjr requires 128k, one drive and printer. PC requires DOS 1.1 up; XT requires 2.0 up; AT requires 3.0 up and 3270-PC and PCjr require 2.1 up.

## **MultiMate™ 6871408 \$495**

The program is designed to provide an advanced word processor with features and functions of a dedicated, standalone system.

### **Highlights**

MultiMate is an advanced word processing system created exclusively for the IBM PC. The system incorporates

- Fast full-screen response compared to that of large systems.
- Function key operations.
- Comprehensive online 'help' facility
- Minimal training time.
- Complete, easy-to-use documentation.
- Compatibility with products that can load or store ASCII or DIF™ files.
- Functions previously available only on dedicated word processors.

MultiMate is a fast and easy to use word processor that offers function key operations for efficient document creation and modification. A user may perform most functions in the document (rather than from menus or utilities) with a minimum number of keystrokes.

The standard functions—such as Insert, Delete, and Move—and the more complex functions are self-prompting. They perform with a minimum number of keystrokes.

The format line feature provides control over tab settings, line spacing and line length. A user may include an unlimited number of format lines in his document. Format line modification results in automatic text readjustment from the modified format line to the next format line or the end of the page.

MultiMate's complete printer control capabilities allow utilization of the features available on the user's printer. The header and footer facility is flexible and easy to use. This feature supports alternate headers and footers and the ability to change header or footer text as often as needed within a document. Printer Control Codes provide special printing functions unique to his printer. Document printing performs in a background mode so that a user may create or revise another document while a document prints. Foreground printing is also provided.

The Library function allows a user to store an unlimited number of frequently used phrases, paragraphs, or forms (up to one page each) on a diskette. A user may recall these library entries whenever he wishes for insertion into a document.

With the Column Manipulation function, a user may Move, Copy, Delete, or Insert columns of text or numerical data in a page with a few keystrokes. Column Calculation functions provide both addition and subtraction capabilities, either vertically or horizontally. MultiMate can perform volume word processing tasks like a dedicated standalone system.

**Environment:** Requires 256k, two drives, matrix printer and DOS 1.1 or later.

## **Multimedia Presentation Aid 6276611 \$25**

Make your presentations come alive with color. Now you can combine features of slide shows and overhead projections.

### **Highlights**

- Create presentations in standard outline form or in free form to display tables.
- Choose multiple colors.
- Prepare presentations to appear at timed intervals or by keystroke.

Use this program with a text editor to create presentations viewed on the PC. Scroll presentations forward and backward or specify a time interval for

next screen. Prepare multicolor transparencies using a plotter connected via the IBM Asynchronous Communications Adapter. Use a matrix printer to output presentation material of transparency quality. Efficient use of this program requires general PC and text editor experience.

**Environment:** PC, XT, PPC, PCjr, AT or 3270-PC with 128k, one drive and DOS 2, 2.1, 3, 3.1. Supported options are matrix printer or IBM Color Printer, IBM 7371,2, 749,750 plotters with IBM ACA.

## **Object Library Maintenance 6276543 \$20**

Create, modify and maintain a library of files and simplify object file maintenance.

### **Highlights**

- Merge OBJ files into a library or build a library file.
- Reduce a LIB file to its individual OBJ files.
- List library file contents.
- Rebuild libraries to remove unused modules.

This is a collection of programs that create, modify or take apart the object module library (LIB) files. Library files permit individual object files to be combined into one LIB file so that the Linker program can process them as a single file rather than individually.

This can simplify program development where a standard collection of precompiled or preassembled routines are used. LIB files usually require less space than OBJ files and occupy but one directory entry. The Linker can 'include' object mods from an Object Library Maintenance LIB file into your program.

**Environment:** PC, XT, PPC, PCjr, AT or 3270-PC with 128k, one drive and DOS 2, 2.1, 3, 3.1. Matrix printer is a supported option.

## **Passive Transport 6871521 \$70**

This program is designed to be used in any science curriculum that includes the study of biological systems.

## Highlights

- Graded quizzes after each unit module
- Realtime simulations to demonstrate diffusion and osmosis
- Graph analysis using randomly generated data
- Separate, on-screen testing module generates a hard copy quiz
- Teacher access only module, that generates a hard copy quiz
- Concise review and information screens throughout the program

Passive Transport uses the idea of realtime simulations to demonstrate the different processes of passive transportation. Graphics and animated simulations illustrate the process of diffusion and osmosis. The inquiry approach helps students discover the concepts that are basic to understanding these crucial processes. Students analyze graphs and receive extensive feedback as they learn.

**Environment:** PC, XT or PCjr with 128k one drive, color CRT, matrix printer and DOS2.

## PC Batch Communications Program 6428147 \$385

This set of programs offers an attractive low cost entry for remote computing, when host connection is of short to moderate duration. The PC user can transmit files and programs via lease or dial connection to a System/370 application such as IMS or CICS. Data within an incoming file can be examined, selected and directed to resources within the DOS control, such as printers or disks.

## Highlights

- The PC appears to the host as an SNA 3790 with logical units type programmable (IMS) or full function LUs (CICS). Sixteen LUs per program is maximum.
- Optional user exits provide the user more intervention, control and opportunities to add his own functions; e.g. autocal the host, host breaks connection, host calls back with the answer. Custom support for encryption/decryption is another example.
- Communications transactions and activities are logged, and traces are obtainable. Automatic session recovery is facilitated with message synchronization.
- Multiple sessions can be handled serially within the same telephone call.

- Sessions are initiated by an operator or unattended, which is facilitated by auto answer.

### **Potential Benefits**

- The cost of local hard disk storage space can be reduced dramatically, as only those files with frequent and current activity are stored locally.
- The time and aggravation to maintain unwieldy libraries of diskettes is lessened.
- The professional moves one step closer to the large files or data bases in the central host S/370. This expands the potential for sophistication of the professional's own programs.
- The high quality of System Network Architecture can be obtained by the PC user without need to become technically proficient with SNA. This is likely in most cases because the S/370 Information Systems technical support already is quite capable of providing connection.

### **Environment**

- A PC or XT with 128k and two drives, CRT and printer
- IBM PC SDLC Communications Adapter and cable
- Leased line synchronous modem with clocking to 4800 baud
- DOS 1.1 or later
- System/370 supporting 3790 full function logical unit type; e.g., CICS or IMS
- Dial (switched) synchronous modem with clocking to 4800 baud plus auto answer

## **PC Cluster Program 6024107 \$99**

The Program enables IBM personal computers to be used in a clustered multi-user configuration. Small work groups in schools and businesses now can share a fixed disk and exchange messages and data.

### **Highlights**

- Offers low-priced, clustered, multi-user configuration.
- Provides disk server with one public read only volume for the cluster and one private read/write volume per computer in the cluster.

- There is easy remote operator access to public and private volumes which appear as additional diskette drives.
- Support provided for PCjr without diskette drives with an option to down-load IBM PC DOS and an application program when a remote station operator powers on.
- Supports file transfer, message send/receive, and message broadcast through easy to learn menus.
- Allows user control of remote operator access to user's private volume and/or diskette drives with no access, read only, write only or read/write.
- Supports up to 64 computers in a cluster.
- Special packaging option contains five copies of the documentation with one copy of the Program. Order 6024182 at \$439.

The program supports the interconnection of 5150 PCs, 5155 Portable PCs, and 5160 PC XT's each with a cluster adapter. 4860 PCjrs, each with a PCjr cluster attachment, also can be included in the configuration. PCjrs equipped with the cluster attachment cannot install the PCjr diskette drive, internal modem, or parallel printer attachment. It is IBM's intention to provide, in the future, the ability to attach the PCjr cluster attachment to all current configurations of the PCjr.

Using the Cluster Program, a 5160 XT, or a 5150 PC with a 5161 PC Expansion Unit, can be designated the disk server. The other computers share the disk server's fixed disk. The disk is partitioned into one public volume shared by the cluster and one private volume per remote computer in the cluster. The remaining area on the fixed disk is assigned to the disk server station. Remote operators view the public volume and when a remote computer is powered on, the PC Cluster Program provides the option to download DOS and an application program from the fixed disk at the disk server station. This feature enables PCjrs without diskette drives to be used in the cluster.

The PC Cluster Program supports messages and file transfer between any two computers in the cluster. These functions are available whether or not a disk server is included in the cluster. A message broadcast capability is also included. Message and file transfer is supported by easy to learn menus.

The PC Network is a more complex, larger and more sophisticated offering—also presented in the rose pages.

**Environment:** Requires a PC, PCjr, PPC or XT with DOS 2.1. Each PCjr must have at least 128KB of memory and the PCjr Cluster Attachment (#0027). The PCjr Cluster Attachment cannot be installed with the PCjr diskette drive, internal modem and parallel printer attachment.

Each 5150 PC, 5155 Portable PC or 5160 PC XT in the cluster must have at least 128KB of memory, a PC Cluster Adapter (#1206), coaxial cables and connectors, and one drive. One of the computers in the cluster, must have a double-sided diskette drive. The IBM PC Cluster Cable Kit is recommended; it contains the necessary coaxial cable and connectors.

For clusters which provide a disk server function, a 5160 PC XT or a 5150 PC with a 5161 Expansion Unit, one double-sided diskette drive, and 256KB of memory is required.

A cluster with one or more 4860 PCjrs must include a disk server. The Cluster Program may increase the memory required to run some programs. The maximum amount of storage required by the Cluster Program is:

- For the remote 5150 PC, 5155 Portable PC, or 5160 PC XT—29k. For the remote 4860 PCjr—34k. For the disk server station—136k.
- The amount of storage required by the Cluster Program is affected by such factors as whether a local or remote system reset is performed, and whether background message and file transfer is enabled.

## **Personal Computer Instructional System**

**More and more companies, including small firms, are commencing and expanding the education of employees, using computer based training aids. The reason isn't obvious, but it is simple... the long-lasting and very high return on the resource investment.**

Using one or all three subsystem components of PC/IS, you have a valuable teaching *and* learning vehicle that provides all the benefits available in System/370 networks. It is compatible (up and down-loadable) with courseware written in the Course Structuring Facility (CSF) language for the S/370 Interactive Instructional Presentation System (IIPS).

### **A Portable One-Student Classroom**

You can provide uniform, expert and current material wherever needed. Don't wait for classes to be scheduled. Employees begin training right away, on the job.

You can prepare a lavish buffet of training packages, from simple mailroom procedures to executive decision support and top management computer literacy. Employees can select orientation training; company ethics, conduct and policies; online procedure manual inquiry; marketing training; clerical and administrative training; professional analytical tools; solution synthesis modeling; electronic mail; librarianship; word processing and text writing;

programming, computer operations; personnel administration; and oddly enough—how to author and evaluate PC/IS courses.

Just as important as the quality of PC/IS's content is its approach and style. It sustains student motivation because it structures the learning process to the *student*. He develops confidence and a friendly rapport with what becomes 'his' course. It's high-tech courseware... Even better—it's high-touch.

### **The Presentation Component**

Course content is not preselected or included in PC/IS when your copy arrives. It is authored by the user or purchased from courseware vendors. The architecture is designed to flex and tailor to the student's capabilities and emotional viewpoint. He sets his own study schedule and pace, stopping or reviewing at will. His interactive responses select the paths of logic, and the sequence of lessons and topics. It is not 'canned' Material is presented screen by screen with optional hints. The student records questions and reacts in real time when *he* feels like it. Screens and topics are viewed selectively and may be resequenced. *He* decides when to take a quiz or exam.

The environment is relaxed, conversational and non-competitive. There is no pressure to keep up. Course material is presented in clear and friendly English and is tailorable to language patterns of differing groups, e.g. bilingual, low or high English skill. The student can inquire how he's doing, and what options he has when he's stuck.

The student can take any course 'manufactured' on the PC/IS Authoring subsystem; or he can take any course prepared on the S/370 Interactive Instructional Authoring System (excepting the 'field' and 'summ' macros of CSF).

### **The Authoring Component**

This subsystem is a set of structured programs that facilitate the composition, edit and accumulation of the course materials by the author or instructor. Authors need not be computer literate. A prompter guides, edits and formats the author's text, visuals, questions, hints, exercises, quizzes and logic flow... PC/IX helps the author construct processing routines for these same components.

The author can build a very simple exercise without knowledge of the CSF language. Or he can employ advanced features such as branching, pretests and posttests. A 'usability simulation' feature is provided to road test and measure the effect of a given flow of logic or a sequence of dialog.

Once developed, the course is available to any PC. Also, it can be delivered to the S/370 IIPS and IAS and thereupon to a terminal, or downloaded to another PC/IS.



## Administration Subsystem

This optional module provides the tracking, evaluation and management of the components of instruction activity. A history file contains student statistics: courses enrolled, hours logged, frequency and patterns of study, achievement, progress and projection.

### Potential Benefits

- Courses are designed to fit the convenience and the specific needs of the business.
- There is minimum time away from the job because there is no travel. Students readily make use of dead spots in their regular routine if a PC is nearby. There are no extra expenses, e.g. travel.
- Courses are likely to be up-to-date and reflect today's goals of the company and the student's work group. Monitoring of student progress and course material indicates when refresher courses are advisable.
- Investment and expenses for classroom space are reduced. It's wise to recycle this saving into quality instructors and authors.
- Ready-to-run courseware is available from vendors.
- Employees are better educated; producing better work with less headcount.

### Build Your Own PC/IS Gradually

You're not dependent on access to a S/370. Start simply by buying the Presentation subsystem plus a few Presentation programs developed by vendors. Next, add one or so Authoring programs and tailor them yourself or buy from courseware vendors. When you've got things rolling and have some extra money buy the Administration subsystem. Don't forget to devise some intelligent measurement of return on your investment... You'll be pleasantly surprised at the value returned and the competitive edge that results from raising employee skills.

**Environment:** PC/IS runs under the Disk Operating System 1.1 or later. To exchange files with IIAS and IIPS, the Asynchronous Communications program (number 6024-032) is needed—plus modems and Asynchronous Communications Adapter. Memory of 128k plus two diskette drives are required. The Presentation subsystem will run on one drive.

**Technical Assistance:** is provided centrally by mail to all licenses. Central service through 1985 is provided to customers for problem determination and defect assistance by toll-free telephone and mail. Customers who buy twenty licenses can designate a user's coordinator who may call the Personal Computer Assistance Center during the first year of installation.

## Publications

Associated publications are delivered within the product shipment. Your IBM Branch office will supply a free copy of the Program Announcement No. 283-296 and form number G320-0441. The latter (three-page brochure) also is available if you write the form number on the Order card.

## Ordering Information

- You may place your order through your IBM Branch Office. Or you can send in the Order card in back or phone it in to IBM Direct—PC Order Department at 1-800-IBM-2468.
- To prepay your order, add applicable state or local taxes to the one-time license fees.

Name	Order Number	Feature	Price
Presentation	6428071	9173	\$89
Authoring	6428072	9174	\$575
Administration	6428087	9175	\$439

## Personal Computer Interactive Executive

1753369 \$989

**PC/IX** is derived from UNIX™ System III. It is an operating system designed solely for the PC. It has *no other* software prerequisites—as the services and facilities presented to the user are extensive.

The architecture is so rich and complex that normal users (hackers excepted) should learn a subset of friendly functions and use them repeatedly; then 'pick up as one goes along'. A whimsical measurement of the extent of the system, is the *bulk* of the physical product—nineteen diskettes...

The .44 magnum operating system.

- Hierarchical data base
- Communications
- Three editors and two text formatters (word processing)
- Windowing
- Desk calculator function
- Command Language interpreter (Bourne shell)
- Assembler
- C Compiler
- Five algorithmic languages
- Floating point, with or without the 8087 chip

- Games—one diskette
- System programming research and development tools
- DOS co-residence and file exchange
- Multitasking
- System management and accounting facilities
- Code and file change management
- Execution of sequential, asynchronous and background programs, e.g. I/O queueing and spooling

**The Data Base** consists of a uniform set of directories and files, arranged in a tree-like (hierarchical) relationship. The user can sort, extract, list and manipulate his data without formal programming.

- The data base is managed by the operating system. Physical space is allocated automatically to files and directories, tables, programs—as they enlarge, contract or are deleted.
- Directories and files are protected in the read, write and execute states. This can be for the owner or group of users. Protection is alterable dynamically.
- Linkage of one file to another across directories is supported.
- Within the data base, file systems and volumes are mountable and demountable.
- **Three Editors** (INed, ED and SED) are selectable to manipulate the components of the data base. An *editor* is a service provided to the user-composer. Its objective is to guide him through the composition of the textual content or report data. Sophisticated cut-and-paste is implemented by combining function keys, menus and help facilities. Sentences, paragraphs and large blocks of text can be quickly moved, copied and altered in several ways. Text deleted by mistake can be recalled. File search facilities are provided to the composer (user). Text lines may be located by line number or patterns ('regular expressions'). One or more instances of a pattern within a line may be replaced by a selected expression. Patterns may include specified characters, 'wild-card' or 'don't-care' characters, and specified numbers of choices among characters. Function keys command centering, underscore, wordwrap, margins and other formatting services. Lines and files may be split and combined (concatenated). Any of these pattern operations may be applied to every line within a given range. During an edit session the commands (e.g. SORT) may be issued without leaving the Editor.

Search and retrieval is accomplished by issuing commands and queries. It allows the professional to extract and format information without need for a programmer. He is truly 'behind the wheel' of his own data base.

**Windowing** displays multiple parts or multiple files in several miniature screens on the CRT. You can activate and monitor several applications at once. While scanning file A you can call up an associated part of file B. Switching between an active and static CRT can enhance the window presentation.

- **Two Formatters** are available. One is for printing. The other is for phototypesetting. Formatting a document or report usually occurs when the author decides that he needs a hard copy—draft or final. A manuscript layout facility provides a selection of output styles and formats. When the user becomes familiar with the layout facility he may extend and tailor its options. Some of the most popular format options:

- Tables and charts are described easily.
- Math formulae are supported with a *complete Greek alphabet in various sizes*. This includes the automatic calculation of point size for large brackets, braces, sub/superscripts, sub-subscripts, etc. Formulae for matrices, conditional alternatives, etc. can be 'piled' vertically. Thus the statement, sigma sup 2 = 1 over N sum from j= 1 to N (x sub j - x bar) sup 2.... produces:

$$\sigma^2 = \frac{1}{N} \sum_{j=1}^N (x_j - \bar{x})^2$$

- Spelling edit is performed from a system dictionary.
- Index generation produces a permuted index.
- Graphs are generated from given point coordinates.
- Plot is performed from the above output to an IBM Graphics printer or an IBM Color Graphics adapter or a daisy wheel printer.
- Insert or delete text conditionally, dynamically.
- String variables are invoked in mid-line.
- Foils and slides are produced with professional quality.
- Positioning and other parameters can be relative or absolute—dynamically.
- Macros are provided with substitutable arguments and are executed conditionally.
- Formatting styles may be different for text, footnotes and floating tables and displays.
- Input files may be nested or chained.

- Indentation may be hanging or one-line.
- Automatic hyphenation is optional.
- Margin justification is selectable.
- Page headers, footers, numbering, even-odd differentiation are user-specified.

## Languages

- **The Command Language** is an interpreter. It's fun and friendly, and the beginner is rewarded rapidly with confidence in his ability to 'push the buttons' of PC/IX. Output from one command is 'piped' to another—as input; whereupon it is processed and repiped. Thus the beginner lays a 'pipe-line' of successive commands without worrying about the complex coding and logic that is being constructed for him. This is a *full* programming language. It has user-defined variables, substitutable and passable parameters, iterative flow-control constructs (*while, if, else, do, for, case*). If you're a professional programmer don't snicker at its apparent simplicity... For example, *interrupt processing* is quite the norm. Many non-DP professionals and analysts will be able to handle all their programming needs with this general purpose application builder.
- **The C Language** is a modern structured programming language that is suitable for almost any type of program. Along with some study and preparation the beginner should select a subset from which he may extend his knowledge as familiarity ripens. When matched with the Command Language, C becomes the combination favored by many professionals, analysts, engineers—i.e. those who don't wish to become technically proficient with data processing.  
At the opposite end of the spectrum of 'friendliness'—C is a language of immense technical density. Suffice it to say that virtually all of PC/IX is written in C!
- An **Assembler** is provided for the Personal Computer.
- **The Macro Processor** recognizes macros anywhere in text. The usual functions of integer arithmetic, string-substring processing, condition testing, argument processing are of course, available. The user is freely encouraged to compose macros.
- **AWK** is a pattern (scanning and processing) algorithmic language. This is the best way to search a (portion of a) file, line-by-line—for a matching pattern.

Patterns include regular expressions, arithmetic, lexicographic conditions, Boolean combinations and ranges.

Data can be constructed as variables and arrays (with non-numeric subscripts).

Arithmetic operators and 'control-flow' are provided—as in the Command Language.

Output is directable to files or Command 'pipes'.

- **BS** is an interactive interpreter combining features of BASIC and SNOBOL 4.
  - Statements include: *for/while....next; goto; if...else...if; trace; symbolic dump.*
  - All numeric computations are double precision.
  - Recursive functions are definable and callable.
  - Math functions include: *log, sin, cosin, atan, ciel, floor, sqrt, abs, rand.*
  - String operations include regular expression pattern matching.
  - Very general input and output are provided. This includes the connectivity to the 'pipes' of the Command Language.
  - An interpreter similar to SNOBOL 3 is provided. It is limited by: function definitions that are static, pattern matches that are anchored and absence of built-in functions.
- **DC** is a math processor for system programmers and engineers. It has named storage locations and a conventional stack—to hold integers and program. Arbitrary-precision decimal arithmetic is provided. Arbitrary I/O radices are available: binary, octal, decimal, hex et al. Reverse Polish operators are supported: *+ - \* / remainder, power, root, enter program, execute et al.*

The user has an interactive interface to DC—especially familiar to C Language programmers. This provides a high level C-like syntax. Arrays and recursive functions are handled easily. Arbitrary-precision functions are provided such as: *exp, sin, sos, atan.* 'Goto-less' programming is supported when this interface is operating.

- **The Compiler-Compiler** is intended for systems research and development programmers and engineers. Its LALR(1) facility is intended specifically for the writing of compilers. During execution of resulting pursers, arbitrary C functions can perform code generation, or they can execute semantic actions: BNF syntax specifications, precedence relations, ambiguous syntax with non-BNF resolution rules.

- **The Lexical Analyzer** is designed to write programs whose control flow is directed by instances of regular expressions in the input stream. It is suited to editor-script type transformations, and for segmenting for a parsing routine.
- **Lint** is invaluable when (im/ex) porting a C program between UNIXs. It scans and flags instances of 'suspicious' code, possible bugs, characteristics of non-portability, or wastefulness.

**Games:** One diskette is included.

### **Communications**

These facilities enable the owner of a PC to transmit and receive data from other PCs, mainframes and UNIX users. Indeed, interconnectivity is architecturally integral. Up to two IBM asynchronous adapters are supported for mail and file transfer. Autodial is optional. The most popular communication modes are:

- *Connect* establishes an unintelligent terminal-like link from your PC/IX to another UNIX, to a public data base or any communications computer with asynchronous ports. Connection may be hardwire, lease, private, auto or manual dial. A common implementation is to start up programs for a host or remote computer.
- *UUX* allows you to execute your commands on a remote UNIX, e.g. for remote printing or execution of a program.
- *UUCP* provides file transfer between UNIX computers, e.g. electronic mail.
- Networking and usability enhancements and options are provided in a separate and optional program INmail/INnet/FTP, page 2-122.

### **Potential Benefits and Value Areas**

- The components were designed to be used *together*. Consequently there is much less technical integration effort than if similar components were acquired a la carte.
- The experienced user and those with heavy computing demand will obtain efficient usage of hardware and system resources. This is due to the sophistication of the operating system's multitasking, dispatching, and resource management.
- Modern professionals are implementing *Decision Support Systems* to increase the quality and precision of their output and free up time for more creative endeavor. The principal components of a DSS are:

Information Base

### Query and Retrieval

A non-technical programming language for the user, plus...

A compatible technical programming language

Problem Analysis and Solution Synthesis Models and Aids

Communications with associates and other computers

Presentation Services

There are very few systems that possess these design characteristics...  
PC/IX does.

- Analysts of both business and scientific disciplines can use many of the same PC/IX tools. This is because they are tailored by the user; and because of the large selection of system services. It is very valuable to import scientific disciplines into a business environment and vice versa.
- The system is based on uniform concepts and fundamentals. When employed by several associates and support staff, the *quality* of communication, electronic and other, should rise noticeably.
- System functions are designed so that their relationship to other functions and services is not presumed or prescribed rigidly. Instead many facilities are intended to be combinable in unlimited arrays—*beyond* the presumptions of the PC/IX designers. Pipes are an excellent example, whereby a skilled user may erect functional structures and models. These might be quite unforeseen, unorthodox—but produce a novel and creative approach to his problem.
- Because programs and files are portable between UNIX computers, users will find that migration to PC/IX is facilitated. It is expected that system research and development programmers and engineers will employ PC/IX as the operating system of choice for the same reason. UNIX runs on an unending variety of computers; from the smallest micros to the fastest CPUs on Earth.

**Environment:** A PC, XT, XT/370 or AT requires 256k memory plus a ten MB fixed (hard) disk, Monochrome Display (5153001 plus 1504900) and one 2D diskette drive. The XT requires Asynchronous Communications Support Adapter.

### Optional Features:

- A Color Display (option 515001 plus 1504910 for the Adapter) is supported, but only in text mode. Monochrome *with* Color Displays *both* can be switched by PC/IX using the STTY command.
- The 8087 Math Co-Processor chip (specify 1501002) is for logs, floating point, high-precision arithmetic and heavy-duty number crunching.
- FORTRAN 77 is an add-on option. See INfort on page 2-114.



- The C Language and its associated run-time library are available a la carte for \$350. It does not require PC/IX or its hardware environment. It runs on the PC, XT or the 3270-PC under DOS. It is compatible with the C Language associated with UNIX Seventh Edition. Program number is 6871466 described in these pages.
- INmail/INnet/FTP extends the communicating functions and improves usability. The program is described on page 2-122.
- IX WORD/MATH is a package of word processing and several other office automation applications, page 2-123.
- IX RM/COBOL™ is a compiler and run time interpreter, see the article in this section.
- Heavy users of multitasking should consider the addition of memory beyond the minimum.
- Another UNIX™ System III implementation for the AT is XENIX™. Use the Order card to request brochure GC34-0607; and see XENIX in the Keyword Index.
- A total of four 2D single or double-side diskette drives are supported.
- A total of two 10MB disks are supported.
- A total of two IBM Graphics Printers (option 5152002) or two IBM 80 CPS Printers are supported.

**Technical assistance** is provided centrally by mail to all licenses. Customers who purchase twenty licenses can designate a users' coordinator for ASKINFO which is an electronic communications technical support facility.

### **Ordering Information for PC/IX**

- You may place your order through your IBM Branch Office or IBM authorized dealer.
- You can send in the Order card in back or you can phone it in to IBM Direct—PC Software Department at 1-800-IBM-2468.
- Specify program number 1753369.
- To prepay your order, add applicable state or local taxes to the \$989 license fee.
- An allowance of twenty percent is available to qualifying educational institutions. It is not in addition to any other discount.

## Publications

Write the form numbers on the Order card. General Information is free; the others are chargeable. The PC/IX license fee includes these five publications so you don't need to order them separately.

General Information	GH20-6247
User's Manual	SH20-6365
Programmer's Guide	SH20-6367
System Manager's Guide	SH20-6369
Text Processing	SH20-6371

## PC Network Remote Control 6276562 \$99

PC Network Remote Control consists of two programs, Netcall and Nethost, that allow your PC to control, or be controlled by, another PC on an IBM PC Network or any network that is IBM PC Network NETBIOS compatible.

Use Nethost to make your PC a 'host'. As a host PC, any other PCs on the network, to which you give access, can use the Netcall program to operate your PC from their keyboards and view the output on their displays.

The Netcall program allows your PC to be a 'calling' PC. As a calling PC, you can access and control another PC which is running Nethost and has given you access. The operator of the host PC continues his session while it is being accessed by the calling PC.

A PC can be a host and a calling PC at the same time, provided that both Netcall and Nethost have been loaded into that PC and the other calling and host PCs also have the programs running. A host PC can be accessed by more than one calling PC at the same time. Similarly, a calling PC can access multiple hosts, one at a time. You can set up as many connections between host and calling PCs as your network can handle. This allows for concurrent transmission across the network between multiple host and calling PCs.

Security is a consideration in *any* network. Special conventions are provided to help protect your PC and your files from unauthorized access. Users of CVIEW on a VM computer will recognize surprisingly similar functions (although architectures differ).

## **Potential Benefits**

- Two or more network members can confer on a document or program in the convenience of their own offices. This is useful in literature or documentation development environments where close collaboration is a necessity.
- PC support group members can provide remarkably effective online user assistance and training to geographically disbursed PC users without leaving their desks. User assistance travel time is drastically reduced.
- PC users do not have to exit their applications to permit the support group to access their PCs. Thus, a support group member can analyze a question or problem at an existing point in the application to guide the user to a solution rapidly.
- Instructors in educational environments can observe the progress of many people as they operate their individual PCs. (See "Paging Through Multiple Host Machines.")
- Instructors can demonstrate programs simultaneously on multiple PCs by chaining the PCs. (See "Chaining Multiple PCs.")
- Groups can share the unique resources of one or more specific PCs. Thus, if a host PC has a unique hardware resource such as a modem, group members can access the host PC one at a time and conduct telecommunications sessions from their calling PCs.
- Alternately, groups of users can access (one at a time) unique applications that are installed on, and licensed for a single host machine.
- Two or more people can coordinate data and activities on a central machine. This is useful in environments requiring the coordinating or synchronizing of data such as spreadsheets or templates and in environments requiring application development, conferencing, group bulletin boards, message centers, and interactive games or simulations.
- Users can operate remotely PCs that are located in hostile, inaccessible, or even dangerous environments such as high energy laser or toxic chemical laboratories.

## **Hardware**

Both programs operate on all IBM PC, IBM PC/XT, and IBM PC/AT models that have 128K memory and one diskette drive. All graphics and text modes are supported. A calling PC must have the same type of display adapter as a host PC. The host PC does not have to have a display attached. Only the

adapter must be installed. Both the calling and host PCs must be connected to the same network.

Netcall and Nethost, operate within PC Network NETBIOS compatible environments. Since this can be provided in a variety of ways, checking for a valid environment is impossible. While both programs attempt to verify that your PC has a valid operating environment, it is your responsibility to ensure that you have provided a suitable NETBIOS environment for these programs.

If you are using the IBM PC Network Program, you should increase the number of sessions and NETBIOS commands that can be active by one and two respectively. You can do this by modifying the /SES and /CMD parameters of the PC Network Program NET START command. If you are using the PC Network Program, it must be started before PC Remote Control so the PC Network Program can activate the PC Network Adapter.

### **Software Requirements**

The PC Network Remote Control programs operate on all DOS versions from DOS 2.0 to DOS 3.1. The programs are 100% compatible with the IBM PC Network Program though they do not need it to operate. However, PC Network Remote Control users that wish to use the PC Network Program should increase the number of sessions and NETBIOS commands that can be active by one and two respectively.

This is achieved by modifying the PC Network Program /SES and /CMD parameters on the PC Network Program NET START command. Finally, note that the PC Network program must be started before PC Remote Control so that the PC Network Program can properly activate the PC Network adapter.

Nethost and Netcall allow your PC to become either a host or a calling PC. Keep in mind that in order to operate successfully, the host must be running Nethost when the calling PC executes Netcall.

**Commands** have this format: To become a host PC, that is, to give a calling PC access to your PC, use the Nethost command

```
NETHOST Other-PCname <Your-PCname>
```

You don't have to enter commands in uppercase. To become a calling PC, that is, to access a host PC, use the Netcall command

```
NETCALL Other-PCname <Your-PCname>
```

Other-PCname is the name of the other PC. You must specify the name of the other PC. It can be identified in one of four ways, depending upon the level of security you want. See the section "Security Considerations".

Each IBM PC Network Adapter has a unique identification number called the **permanent node name** programmed into the adapter card's memory. It consists of ten bytes of binary zeros followed by six unique bytes of hexadecimal numbers. The format is

\x.VV.VV.VV.VV.VV

where:

\x is the delimiter signifying that a hexadecimal value follows.

V is a valid hexadecimal digit (0-9, a-f, or A-F).

You can obtain the permanent node name by entering either `NETHOST ?` or `NETCALL ?` from the PC whose name you want to know. The node name is given in the format shown above. When you specify the permanent node name, you must enter it exactly as it was given to you by `Nethost` or `Netcall`.

A **PC network machine name** is a unique name that a PC uses when it starts the PC Network program. This name can be from one to fifteen characters in length and can include any number, letter, or extended ASCII character. The only way to find out the PC network machine name is to ask the person at the other PC.

An **Alias Name** is a name that the other PC has said that it wants you to use in order to communicate with it when using PC Network Remote Control. An alias name is like a password. The other PC specifies this name in the *Your-PCname* parameter of its `Nethost` or `Netcall` command. This name can be from one to fifteen characters in length and can include any number, letter or extended ASCII character. If the other PC has designated an alias name, then you must specify that name instead of a permanent node name or network name. You should consult with the person at the other PC to determine if an alias is being used. If the other PC is using an alias, you should find out what it is and enter it as it is given to you. There is no difference between uppercase and lowercase letters in an alias name.

Specifying an asterisk with the `Nethost` command allows all PCs on the network to have access to your computer. This specification does not allow for security.

**Your-PCname** specifies the name by which you want to be addressed on the network by another PC using PC Network Remote Control. If you specify a name for your PC, the other PC should use this name in the *Other-PCname* parameter of its `Nethost` or `Netcall` command. **Your-PCname** is optional.

There are two ways to specify **Your-PCname**—as an **Alias Name** or **backslash x** option. An alias name is like using a password instead of the permanent node name or PC network machine name. If you specify an alias name for your PC, it can be from one to fifteen characters in length and can include any number, letter, or extended ASCII character. Uppercase letters

are considered the same as lowercase letters. Some examples of valid names are:

```
gregory  
MeLiSsA  
RB6Y3E1Q7D  
zA4-&%# ±|aZz|<
```

If you specify a name for your PC, be sure to tell the person at the other PC that you are using an alias and what the alias is.

The backslash x option tells Nethost or Netcall to use your permanent node name as Your-PCname. You must enter this option if you want to use your permanent node name when running the PC Network program. Otherwise, Nethost and Netcall will use your PC network machine name. If you enter any characters after \x the programs will consider it to be an alias name.

If you do not specify Your-PCname, the other PC uses your network name if you are running the PC Network Program. If you are not running the PC Network Program, the other PC uses your permanent node name. Nethost and Netcall notify you at start-up time which default has been selected.

### **Security Considerations**

If you are a host PC, you will be most concerned about security. Allowing your PC to be accessed across a network potentially exposes your PC to unauthorized access and tampering. Therefore, you should be very thoughtful about how you allow access to your PC. It is your responsibility to ensure that you select the parameters that provide the security that your system merits. Be aware that editor programs, as well as DOS commands such as ERASE and FORMAT, can be processed from any calling PC on the network. The Nethost and Netcall commands provide various ways of ensuring security.

- Using the \* (asterisk) provides for no security. Any PC on the network can access your machine.
- Using a PC network machine name provides some security but does not limit access to a particular PC. Anyone who knows the network machine name can gain access to your PC from any PC on the network.
- Using a permanent node name provides good security. When you specify a permanent node name, you are giving access to a specific PC. However, once you have given access, anyone can use that PC to gain access to your PC.
- The best possible security can be provided by specifying either the permanent node name or the PC network machine name and using the Your-PCname parameter to create a password. For example, if you are a host PC and want to give access to three calling PCs, your Nethost

commands could look like this depending on the level of security you want.

```
NETHOST \x.0A.13.3B.4E.53.4F
NETHOST \x.FF.23.57.0C.65.7A password1
NETHOST melissa password2
```

The first command gives access to the specific PC which has the permanent node name as shown. Anyone using that PC can access your PC.

The second command again gives access to a specific PC but another level of security has been added. A name has been specified in the "Your-PCname" parameter. Now, only those persons who are using that particular PC and know the password can gain access to your PC.

The third command gives access to any PC on the network which can use the PC Network machine name "melissa". Again, a name has been specified in the "Your-PCname" parameter, meaning that only those persons who know both the PC network machine name and the password can gain access to your PC. Notice that if you are giving access to more than one PC, you can specify a different password for each one of them.

### **Using the Nethost Program**

The Nethost program allows your PC to become a host PC. Each time you start Nethost, you allow any PCs that you specified as calling PCs to have access to your computer. You can have more than one calling PC at the same time, but you must invoke Nethost separately for each one. The number of calling PCs you can have at one time is only limited by the amount of storage you have. You should ensure that there is enough memory to also run your applications. Each calling PC uses about 20k RAM.

Once Nethost is started, it resides in the background. When a calling PC disconnects from your host PC (the calling PC ends its Netcall program), Nethost still allows access by that calling PC at a later time. You do not have to invoke Nethost again to give access to that calling PC.

Nethost cannot be invoked from within an application program. It must be started before any applications, or you can include it in an AUTOEXEC.BAT file (AUTOUSER.BAT if you are using the PC Network program). Otherwise you must exit your application, start Nethost, and then restart your application.

Nethost is used best when placed in an AUTOEXEC.BAT file (AUTOUSER.BAT if you are running the PC Network Program). Include one Nethost command in the file for each calling PC to which you are giving access. The following example allows two calling PCs to access your PC.

NETHOST Calling1 Myhost  
NETHOST Calling2 Myhost

Calling1 and Calling2 are the names of the two calling PCs. Myhost is the optional name you have given your PC. If you include Nethost in a BAT file, load Nethost after the PC Network Program and before any other background programs.

**Ending the Nethost Program** Nethost is a program which runs in the background. Once started, it remains in your system. As such, the only way to end Nethost and remove it from the system and recover the storage it uses is to restart your PC.

### Using the Netcall Program

The Netcall program allows your PC to become a calling PC and access host PCs that have successfully started the Nethost program and given you access. You can only access one host PC at a time. Your PC must have a display adapter that is compatible with the display adapter of the host PC. In order to access a host PC using Netcall, two things must have occurred:

- The host PC must have its Nethost program running; and
- The host PC must have given you access.

If either of these isn't true, you cannot access the host PC.

Once your PC has accessed a host PC, you can monitor and operate the host PC almost as if you are sitting at the host PC's keyboard. You can use DOS commands, run applications, simulate a Ctrl-Break operation, and even restart the host by pressing the Ctrl-Alt-Right Shift key combination. If the host PC's keyboard buffer becomes full because of your keystrokes, your calling PC's beeper will sound.

**Paging Through Multiple Host Machines** You can use Netcall to monitor the activities of several host machines in succession without having to continually reenter the Netcall command. You can do this by creating a batch file that invokes Netcall several times. The following example is of a batch file that allows a calling PC to monitor three host PCs in succession.

```
echo off
:top
NETCALL Host1 Caller1
NETCALL Host2 Caller1
NETCALL Host3 Caller1
goto :top
```



You begin by monitoring Host1. To monitor Host2, disconnect from the existing session by pressing the Ctrl-Alt-Left Shift key combination and you automatically move on to the next host. When you disconnect from Host3, you will go back and begin again with Host1. To end the batch file, you must disconnect from the existing session and do a Ctrl-Break before Netcall starts again.

**Ending the Netcall Program** To disconnect from a host PC, press the Ctrl, Alt, and Left Shift keys at the same time. Netcall ends and is removed from storage. To access the same host PC at a later time, or another host that is running Nethost and has given you access, you only have to reenter the Netcall command, specifying the name of the host PC. You can also disconnect from a host PC by pressing the Ctrl, Alt, and Right Shift keys. This restarts the host PC while disconnecting your calling PC.

Note: A host PC runs applications faster when a calling PC is disconnected from it. Then the host PC does not have to transmit messages to the calling PC in addition to running its applications.

### Chaining Multiple PCs

If you want to demonstrate a program to multiple PCs, you can use Nethost and Netcall to chain PCs together without overburdening your host PC. For example, if you want to act as a host PC to demonstrate a program to six other PCs, this chart illustrates the commands you could enter at each PC to chain them.

PC	Command	Other-PCname	Comments
HostPC	NETHOST	OtherPC1	(Runs only Nethost)
OtherPC1	NETHOST NETCALL	OtherPC2 HostPC	(OtherPCs run both Nethost and Netcall, except the last which only has to run Netcall.)
OtherPC2	NETHOST NETCALL	OtherPC3 OtherPC1	
OtherPC3	NETHOST NETCALL	OtherPC4 OtherPC2	
OtherPC4	NETHOST NETCALL	OtherPC5 OtherPC3	
OtherPC5	NETHOST NETCALL	OtherPC6 OtherPC4	
OtherPC6	NETCALL	OtherPC5	(Only required to run Netcall)

HostPC refers to the permanent node name of the PC running the demonstration. OtherPC $n$  refers to the permanent node name of the other PCs.  $x$  identifies the numbers of the other PCs.

In this example, HostPC runs Nethost and gives access to OtherPC1 as a calling PC. OtherPC1 runs both Nethost and Netcall, giving access to OtherPC2 as its Calling PC and gaining access to HostPC. OtherPC2 also runs both Nethost and Netcall, becoming a host to OtherPC3 and gaining access to OtherPC1. This continues through the chain until the last PC, OtherPC6, runs Netcall to gain access to OtherPC5.

The PCs are chained together. Each PC has become a host PC to the one behind it and a calling PC to the one in front of it. The demonstrator PC should load Nethost first and then each succeeding PC in the chain should, in order, load its programs. All the PCs in the chain should be able to see the demonstration being run on HostPC.

### **Special Considerations**

- Sounds that are played on a host PC are not repeated on the calling PC.
- Machine cycle speed determines how many callers a host PC can handle. In general, a host PC or PC/XT can handle 3 callers at a time. A PC/AT can handle more. You can overcome this limitation by "chaining" PCs together. See the section "Chaining Multiple PCs" for more information.
- If an application running on a host PC uses either the Ctrl-Alt-Left Shift or Ctrl-Alt-Right Shift key combinations, you will not be able to use these combinations when running the application from your PC. PC Network Remote Control has reserved these combinations for its use, so you can restart the host or disconnect from the host. If the application uses these key combinations, the owner of the host PC can achieve the desired effect by pressing the necessary keys. Other non-standard key combinations such as Left Shift-Right Shift or Alt-Esc also may not be able to be used.
- Some applications alter the state of a PC without using the system services of DOS or BIOS to perform the alteration. Thus, the state of a PC is not correctly known to BIOS and, subsequently, PC Network Remote Control. An example is a application running on a host PC which directly modifies the state of a display adapter controller chip in order to change the color palette. PC Network Remote Control may not operate successfully under these circumstances.
- To obtain best results, host PCs should load Nethost before any other background programs, except the PC Network Program.
- Resident (or background) programs should not be initiated on the calling PC while running Netcall.

- Multiple Nethost and Netcall sessions will cause additional performance degradation.

**How to Order** A PC Network Remote Control license is required for each PC network workstation that will be running an IBM PC Network Remote Control program. PC Network Remote Control is packaged as a six-pack. You may obtain the pair of programs as a single license; order 6276586 \$25. Use the rose tint order card in back; or phone 1-800-426-7279 in the continental United States (1-203-237-4504 in Alaska or Hawaii).

## **PC Organizer 6317027 \$165**

As the non-technical user grows into his PC, he transfers increasing amounts of workload and information storage to it. For some programs or databases he becomes a 'power user'. He can use ever increasing amounts of technical assistance. Since most programs are not designed to be integrated with others (or only certain others), the user finds it ever more awkward to add new programs and to share data and pass functions between them. A good example would be the inclusion of data from a spreadsheet file into a document composed with a word processing program.

The Organizer is of greatest value in an environment of multiple PC users. It functions as an interface between the user and DOS and the programs installed on the PC. The benefit to the user is substantial. He does not need to know more than rudimentary DOS functions. Files output from one program can be input to other programs. And lastly, the often bewildering job of performing the original installation of a new program is largely pre-genned.

### **Highlights**

- The technical support of multiple PCs is enhanced by standardization and installation aids.
- Application programs are initiated from a selectable menu.
- File movement and management are transparent to the user.
- Installation is customized by the technical coordinator.
- The menu is tailored to the individual group.
- 'Complex' PC functions are readily available to the user, such as host communications, esoteric DOS commands and functions, backup and restore.

**The menu** becomes active when installation has been completed. It provides interim menus for the user to select files to be moved, filtered (remove printer control characters) or deleted.

When users want to move files among applications, the Organizer handles the transfer automatically or offers a menu so the user can indicate the file movement desired. File movement is possible only if the recipient application can accept input other than from the keyboard and can accept the format of the incoming file.

The Organizer can filter printer or graphics control characters from report files to be included in text documents. In addition, it aids in the efficient management of disk space. When work in an application is complete a menu is displayed from which is selected files to be deleted or moved from one program to another.

**Setup** is composed of four sections and is designed for experienced DOS users or the group's technical support:

- How to use the Organizer Setup. Initial instructions describe the Organizer and its use.
- Create or alter the menu. The Organizer supports the creation and installation of menus. A menu is provided with documentation for the starter set of application programs. To modify the existing menu, the user selects from a list the program to be included. From a series of menus and screens the user adds or deletes program names, thus creating a tailored menu.

After the menu is tailored the user reviews the data, accepts or changes the sequence and titles. The user would display the file processing and installation options defined in the program information files.

- Install the menu. This function prompts the user through the installation of a program. After all the selected programs are installed, their names appear in the order specified by the user. Initiating a program's execution requires one keystroke.
- View technical reference guide. The guide provides detailed information for the user who wishes to create program information for additional applications or to change the supplied program information files. It is an in-depth description of the application program at the tech support level. Such information is available, for the following partial list:
  - PROFS/PC
  - DisplayWrite 1, 2, 3
  - PC Instructional System, Presentation
  - RS/1™
  - 1-2-3™

- Personal Decision Series: Data Edition, Reports+ Edition, Graphs Edition, Plans Edition, Plans+ Edition.

The user may add program information for other 'well-behaved' programs to create a tailored environment. A well-behaved program uses only standard DOS calls and does not use the terminate-and-stay resident DOS call. Instructions for the activity are included in the technical reference guide.

Program related defect service is available for ninety days after delivery—until April 30, 1987. Extended support is available for a subscription fee; details are included with the program.

### **Environment**

- Any PC (except PCjr) with the larger of: 128k plus the largest application selected—or 256k (320k for DOS 3.0 and 3.1). Also runs under 2.0 and 2.1.
- ISPF (EZ-VU) Runtime
- Hard disk
- Graphics (matrix) printer
- DOS 2.0, 2.1 or 3.0 up

Programs and files should be resident on a single hard disk. For more information request publication number G320-0650 on the Order card in back.

## **PC Print 6276613 \$25**

Specialized printing that's easy and budget priced.

Print reports and lots more with a variety of font selections and options.

### **Highlights**

- Print ten, twelve, fifteen or seventeen characters per inch.
- Use large type styles.
- Design your own fonts.
- Print documents with titles and page numbers.
- Specify indentation.
- Reflow text to desired width.
- Right-justify.
- Print sideways—terrific for extra wide documents, spreadsheets.

You can create and edit fonts and produce output sideways. Commands can be invoked from the menu, DOS prompts or batch files. Print options are easily built from menu selections and started with a keystroke.

You can print ASCII files from editors, BASIC or assembler source code. (An editor that produces ASCII files with line lengths no greater than 255 characters, such as Personal Editor or EDLIN is recommended.) Optional headings may include filenames, last date-time updates, page numbers and skip perforations. Or edit two fonts at once and copy characters from one set to the other. the font editor makes the program open-ended. You can even create special symbols, different fonts (typesyles) or foreign character sets.

**Environment:** PC, XT, PPC, PCjr or AT with 128k, one drive, matrix printer or IBM Color Printer and DOS 2, 2.1, 3, 3.1.

## **PC Tutor™ 6871287 \$59**

**PC Tutor** is designed to teach a user how to operate the Personal Computer with the DOS operating system. PC Tutor instructs on the entire system, hardware and software. A user may control what PC Tutor shows by selecting a topic from a menu. The major topic areas are listed under 'Highlights'. Once a user selects a topic area, PC Tutor makes training interesting and effective with graphic and color presentation.

### **Highlights**

- Computer Concepts
- Diskettes
- Files and Devices - how information is stored
- DOS Commands
- Utility Programs
- Function Keys and Special Keys
- Advanced Topics

**Environment:** Requires 64k (128k for XT), one drive and DOS 1.1, 2.0, 2.1.

## **PC Bond 5664-298 \$2,000 or \$135 monthly**

VM Bond 6467022 \$250

PC/VM Bond consists of a pair of programs that connect a PC (or XT, AT, XT/370, AT/370) to a VM host system. The idea is to make use of the services of a larger computer and effectively expanding the 'apparent' computing and storage of the PC.

Bond provides a cost-effective solution to obtaining large disk storage ability and sharing data (disks) between users. It enables backups of PC fixed disks, message services, a REXX-like command interpreter for the PC, data transfer between the two environments and full-screen 3278/79 terminal emulation.

PC Bond is the VM program running on the VM host. VM Bond runs on the PC. Most functions require connectivity between the two parts, the only exceptions are the terminal emulator and the command interpreter, REXX/PC, which runs in the native mode on the PC and is very similar to its REXX/370 counterpart.

### **Highlights**

- Virtual disks
- Message reception services
- Full screen 3278/9 terminal emulation
- VM host command services
- REXX/PC
- VM host programming interface

Virtual disks are VM files which appear to be disks, from the PCs viewpoint. There is no limit other than VM storage capacity, to how many of these disks may be defined by the user; there may be up to eight accessed at once. The disks may range in size from a minimum of 2k bytes to a maximum size of 32,766k. They are accessed by normal DOS commands. Services are provided to permit files to be transferred from and to these virtual disks, thus providing access to VM data for the PC user as well as permitting the transfer (via VM) of PC files. These virtual disks may be shared by multiple users in the same fashion that VM permits multiple access to other files (read-only). The virtual disk may be used as a target for backing up PC fixed disks or diskettes.

The user may send or receive messages over the VM system directly from the PC mode. Messages are sent from the DOS command prompt with the

normal VM 'tell' command. When a message arrives the user is notified by tone and may activate a special window on the screen to display the message. This window does not interfere with normal text processing.

The system provides 3278/9 terminal emulation on either the monochrome or color monitors. The full functionality of the terminal is available by switching into a terminal mode (versus the PC mode). The keyboard definition may be redefined to the user's specifications as well as the displayed colors. The user may return to the PC mode via the same hotkey sequence.

VM Bond provides the PC mode user with a command interpreter language extension to the batch processor which is similar to the VM's REXX command interpreter, thereby providing a common control language between the two environments. REXX/PC operates completely on the PC and can control the subsequent actions and program executions based on testing the results of previous actions. REXX/PC allows the user to create and manipulate strings and substrings, control simple counters, and program flow, read strings on the keyboard and write them to the active display, read the display screen and interact with the DOS file system. A REXX/PC program may call other REXX/PC programs as well as execute normal COM or EXE programs. There are differences between REXX/PC and VM's REXX which are due to the differences in the environments, specifically in the area of file naming conventions and the like. Basically, however REXX/PC is a subset of VM's REXX.

Host Command Services provide an ability to execute VM commands from a DOS prompt. These commands execute on the VM host, display the results of the user, and return the user to the PC mode of operation. This is an alternative to switching between the PC and VM modes of operation.

The host command services are also made available through the Host Program Interface to permit user-written programs to execute some VM commands and read the display output by writing to and reading from a sequential file. These commands must not require user responses.

File transfer is accomplished between the PC and VM formats by permitting the transfer (copy) of files between the virtual disks and the VM file system.

## **Publications**

PC/VM BOND User's Guide, P/N 6467022, available with VM Bond and PC/VM Bond Technical Coordinator Support Package supplies the information needed to install, configure and run VM Bond on the Personal Computer. The guide is not a tutorial on VM or CMS, but does teach users what they need to know about VM and CMS to use PC/VM Bond.

The PC/VM Bond Programmer's Guide, SH24-5087 provides the necessary installation instructions for PC Bond. It includes the information for experienced programmers to use additional Bond commands. The Programmer's Guide also provides the documentation for the Host Program



Interface which supports the execution of VM programs and the capture of the screen responses from within PC programs. This manual is furnished with PC Bond.

The Technical Coordinator Support package is an optional feature (7043) of program number 6467043 - \$400. It consists of one copy of VM Bond plus the IBM Professional Debug Facility. It is required for support from the IBM Support Center.

**Environment:** Requires 256K, 3278/9 Emulation Adapter (1602507) for coaxial connection, a coaxial cable or IBM Cabling System with Balun Assembly (8642546) described in GA27-3361, and DOS 3.0 or later. VM Bond runs on each PC. Only one copy of PC Bond is needed—in the host VM.

## **PCWATCH 6276603 \$50**

PCWATCH offers a new approach to old problems for the serious software developer, while broadening the class of problems that can be tackled by non-technical users.

PCWATCH is a novel problem determination tool that lets you see what is happening while the computer is running, by 'watching' the use of system services. This, in effect, monitors activity at the system interface level (rather than the machine language instruction level), exposing the same functional abstractions that are used by programs when interacting with DOS or BIOS.

PCWATCH differs from trace facilities available on other systems in three ways:

- It is interactive. All program options and monitoring specifications can be supplied by simply moving a block cursor and making selections with function keys. Monitoring requests may be specified generically or specifically and subsequently narrowed by iterative refinements. The keyboard is also used to activate and deactivate monitoring while the computer is running.
- All results are shown in real time, while the processes being monitored are active, making it easy to correlate internal activity with the external manifestations of a program.
- Many aspects of its operation are user-customizable, without the need to augment it with user-supplied programming.

**Environment:** PCWATCH runs on the PC, XT, AT, the Portable PC and works with all levels of DOS from 1.1 through 3.1. A minimum of 128k is recommended.

Two terms are used with PCWATCH for describing interrupts: **service** and **event**. Both are roughly synonymous with *interrupt*, but are used in a particular context.

**Service** This term serves to emphasize the functional nature of the system interfaces that are implemented on the IBM PC as interrupts. Since it is a more general term than interrupt we also use it to describe interrupt subfunctions differentiated by particular values in the AH or AL registers (any such subfunction may be given a service name with PCWATCH). For instance, DOS provides many services via one principal interrupt.

**Event** This term is used to describe external interrupts or programming exception conditions, as well as the specific occurrence of a particular service.

Services and events are both assigned to functional **categories**. A particular service/event may be included in multiple categories. For example, interrupt 21 AH=2C is the DOS 'Get time' service. It is assigned to the categories DOS, TIMER, and NOISE. Other examples of categories are BIOS, FILE SYSTEM, KEYBOARD, PRINTER, etc.

A special category called NOISE exists to describe all periodic events and continuously used services that occur while the computer is idle. These interrupts, because they occur constantly, even when nothing significant is going on, are seldom of interest for problem determination.

## Functions

- A realtime non-interfering view of the system services used by running programs. The services to be monitored are selected by means of a 'filtering' specification. Services may be included for, or excluded from, monitoring on the basis of functional categories, individual service names, or arbitrary combinations of both.

Since many of the functional categories are overlapping, a common procedure is to narrow the sphere of interest by including broad categories and excluding lesser categories that are of no interest. After reducing the set of included services by selective exclusion the resulting set of services are those that will be monitored. Since NOISE services are only interesting in special circumstances, this group is the most commonly excluded.

A specific service may be re-included even though it was previously excluded by a category that encompassed it. For example, you could

include INT 16, AH=2, 'test key', after excluding the entire NOISE category.

- A slow motion mode where PCWATCH will allow a screen to fill with the selected events and then wait for the press of a key before permitting the computer to continue.

By default all services are shown as they occur in real-time. This mode of operation is most convenient when watching for the occurrence of specific low volume events, but when following a large number of interrupts, the processor must be paused periodically to permit adequate time for reviewing the output.

- A register display, showing the contents of all registers and flags. The register display is optional, and may be requested as input registers, output registers, or both. Whenever output registers are displayed, any registers or flags that were changed by the service are shown with the changes highlighted clearly.

This capability provides an immediate way to validate that correct parameters have been supplied to a particular service and that the expected return values have been obtained. Unwanted side effects in registers or flags are easy to observe.

If neither input nor output registers are required, PCWATCH produces an event display, where each service that occurs is listed by name and return address. This allows you to follow a large number of events with only minimal output generated, and is useful when the sequence in which events occur is of more interest than the contents of the registers.

- A formatted display of common control blocks, such as File Control Blocks (FCB's), ASCII strings, diskette parameters, disk status bytes, Network Control Blocks (NCB's), and portions of I/O buffers, etc, used as arguments to many system services.
- A 'How does it work?' mode which allows you to wait for a particular service to occur and then monitor all of the services that it uses internally to accomplish its function.

Normal exclusion rules apply so that unwanted NOISE events, for instance, can be suppressed.

- An option to direct output to either a monochrome or color display, or a parallel printer.

On a two-display system, PCWATCH can use one display while DOS or application programs use the other. On a single display system, PCWATCH will split the screen into two partitions, one for its use and one for DOS's use. You can choose the position and size of the PCWATCH partition.

With an IBM Enhanced Graphics Adapter (EGA) and appropriate display, PCWATCH will operate with 43 lines of output on a single screen. This allows a full 25 line DOS partition and eighteen additional lines for PCWATCH on the same display. PCWATCH also supports the use of custom-made EGA fonts that permit even greater numbers of lines on the screen.

- The ability to deactivate PCWATCH automatically after a specified number of events, or at the press of a user-selected key. Similarly PCWATCH output can be temporarily suspended (and later resumed) via a keystroke so that service monitoring can be applied selectively to different portions of one or more programs.
- The ability to simulate a boot sequence prior to activating a watch specification. This means that not only DOS initialization sequences can be monitored, but many standalone programs as well.
- The capability to trap a particular occurrence of a designated event and invoke a resident debugging program. This is an open ended capability that permits you to switch to the use of a full-function debugger at a precisely designated moment without requiring you to preset breakpoints in your code. In fact, the PCWATCH technique works where breakpoints are not possible (such as stopping in the middle of certain ROM sequences), or not convenient (such as in the middle of a program that has not been preloaded, but will be fetched dynamically during execution).

The entry to the resident debugging program appears as though an actual breakpoint had occurred. All registers and flags are preserved and the CS:IP value is set to permit resumption of the interrupted program. In addition, PCWATCH is automatically deactivated so that it will not interfere with the operation of the debugging program.

We use the term 'resident debugger' to mean one which is already loaded in the machine and ready to respond to some keyboard sequence, pushbutton, breakpoint interrupt, or similar mechanism, but is otherwise dormant until required. That is, you would continue to see the DOS prompt (not a DEBUG prompt) and can operate the system normally.

Some examples of resident debuggers are:

**HANDS** (IBM Internal Use Only - available from PCTOOLS)

**RDT** (in IBM's Professional Debug Facility - PN 6024143)

Also, some interactive debugging programs that can be 'made' resident by requesting that they execute COMMAND.COM are:

- DOS 3.x DEBUG
- SYMDEB (from Microsoft, included with MASM 3.0)

- The ability to save a complex set of PCWATCH specifications and recall it later for further modification or reuse.

Determining the relevance of some services to a particular problem is typically an iteratively refined process. By recalling a previous set of specifications and modifying them, it's possible to narrow the sphere of interest rapidly.

- A colorful, interactive interface for specifying all program options and event selections. The PCWATCH interface was designed to be intuitive and easy to use, so that complex monitoring instructions can be specified with a small number of keystrokes, and reviewed thoroughly prior to actually activating PCWATCH. Although some PCWATCH functions have obvious applications for technical users, its interface was designed to be easily understood by a novice as well. For its level of functionality PCWATCH is unusual in not needing (and not providing) a help screen.

PCWATCH can be used in a TopView or PC Network environment. Certain reservations apply in the case of TopView or other multi-tasking dispatcher and context-switching mechanisms, in that only input registers, not output registers, can be traced. In addition, PCWATCH must be installed before TopView.

### **Design Objectives**

The concept evolved in roughly four stages, each emphasizing a slightly different design objective.

**Transparency**—is the foremost objective. It is paramount that the monitoring functions of PCWATCH not interfere with the activities that were being monitored. In the most literal sense this is not actually possible, given that PCWATCH must execute on the same processor, share the same memory, and sometimes share the use of I/O devices with other programs.

A reasonable definition of transparency allows for the obvious fact that any software monitoring scheme will result in some slowdown of the overall operation of the system. However, none of PCWATCH's monitoring operations would be permitted to modify the state of the interrupt system, as this could easily introduce alternative sequences of asynchronous interrupts and nullify the use of software locks, disabled critical sections, and other control assumptions present in most PC control software. Once an interrupt occurs (which by definition disables the occurrence of subsequent interrupts until explicitly re-enabled by the associated interrupt handler) any interrupt monitoring functions inserted in that path must operate to completion while the processor remains disabled for interrupts.

This rules out the possibility of utilizing BIOS facilities for keyboard, display, or printer handling during the monitoring process, as these services universally re-enable the occurrence of subsequent interrupts.

Interrupt monitoring solely through the use of internal buffers was rejected early on, because we felt that collecting information for subsequent recording or analysis defeated our intention of providing a real-time monitoring tool. Furthermore, when monitoring a problem sequence, it was possible that the machine would freeze before an opportunity arose to preserve the collected data.

Another area of necessary compromise involved the use of a display for output data. For configurations with two display adapters, an obvious approach was to regard one adapter as the active display and divert monitored output to the other. In this case, the monitoring operation can be completely transparent with no affect on programs using the active display adapter.

For single display systems (by far the more common situation), a display sharing scheme was necessary. We chose to divide the display screen into two partitions, one for normal program display output and the other for PCWATCH monitoring output. A 'display switching' design was considered and rejected because the methods of effecting the switch necessitated non-transparent access to the keyboard.

**Generality** A general purpose mechanism is needed for trapping interrupts and handling them as appropriate for their function. Some PC interrupt vectors are used directly by the processor, some for BIOS and adapter functions, some for different levels of DOS, some for control block anchors, and some are used privately by application software. Many of these interrupts cannot be intercepted without special consideration for the effects that they have, and interrupt vectors that are used as anchors (that is, pointers to control blocks) cannot be capriciously redirected.

Although it might be possible for PCWATCH to handle some of these situations as special cases, it would be far less than satisfactory to do so. For one thing, each new generation of PC hardware and software has introduced additional interrupt based functions and it's reasonable to assume that this trend will continue. Not only would PCWATCH be unextensible without a continuous release of new versions, it would be subject to many low-level dependencies on specific releases of DOS and BIOS.

And of course, given the open architecture of the PC, a similar openness is required in a software monitor. A user who has just purchased a Microsoft mouse, for example, and discovered that it uses interrupt 33h, should be able to incorporate that knowledge into PCWATCH in a straightforward way.

To satisfy this objective in a flexible manner, we fashioned PCWATCH so that all specific knowledge relating to the use and meaning of interrupts could be derived from externally supplied definitions. The specifics of our implementation are discussed in more detail in a subsequent section entitled Customizations.

**Functionality** Given the existence of a monitoring facility that can insert itself into the execution path of most system functions, it's desirable to exploit that potential.

Monitoring (on demand) the contents of processor registers at entry to a system service is but one obvious application. It becomes particularly useful when the contents of the registers on exit from the service can be correlated with the entry conditions, as this permits an observer to determine at a glance changes induced by the interrupt handler.

For example, if the processing of an external (ie, asynchronous) interrupt resulted in any net change whatsoever in the contents of the registers, the processor flags, or the level of the stack, this would certainly result in a malfunction of the running program, making it by definition a bug. Similarly, any such changes occurring as a result of a program (ie, synchronous) interrupt, not explicitly defined as part of the software interface, would also constitute a bug.

Trapping the machine state at exit from an interrupt is not always possible, primarily because some (software) interrupts do not return directly to the point where the interrupt was invoked. Sometimes this occurs because of the one-way nature of the function provided (such as program termination), and sometimes it occurs because error processing within the interrupt handler may result in an alternative exit point. Further complications arise from the fact that many services rely on the nested invocation of other interrupt functions (and recursion is also possible).

Consequently PCWATCH correlates interrupt exits with the corresponding entry conditions. It is assisted in this process by the provision that interrupts may be defined in advance as having the 'ONEWAY' attribute. Even so, the preemption of the current activity by a multi-tasking dispatcher or a hot key context switching mechanism can still invalidate the built-in checks. Ultimately some user level restrictions must be observed while monitoring output registers, and we have left the final control over the exercise of this function to the end user.

We choose to supplement the monitoring of processor registers with optional display of common system control blocks and arguments appropriate to many BIOS and DOS functions. In some cases the arguments are a clear indication of the focus of attention (the name of the file being opened, for example).

The 'Start by Rebooting' function was added to provide a subtle, but sometimes important, capability for PCWATCH to monitor interrupts as the last participant in a series of daisy-chained interrupt handlers. By appearing at this point in the sequence, PCWATCH effectively traps the most primitive level of interrupt handler, regardless of the presence of higher layers of software interrupt handlers. So, for example, by appearing beneath the higher level interrupt handlers PCWATCH can be made to monitor their internal use of the lower level interrupt handlers whose functions they supersede. We subsequently realized that the Start by

Rebooting option also permitted the monitoring of many standalone PC applications.

Finally, to keep the functionality of PCWATCH open-ended for special circumstances, the 'Exit to Debugger' capability was added. This permits the transfer of control to a standard, full-function, debugging program at any specified point in the monitoring process.

## **Usability**

The functional richness of PCWATCH is an obstacle to its usability. So, for each level of control over an optional function, it is necessary that the design address the questions of how, and how often, must a user exercise that capability.

Certain user-controlled aspects of PCWATCH are classified as statically specified. Thus they could be defined once, and only modified when and if it became necessary to do so. This level of control is also described in the following section on 'Customizations'.

The most common task facing a user of PCWATCH was how to determine the relevance of a particular set of system services to the problem at hand. So, we need a versatile way to select services for monitoring and to subsequently modify or refine that selection. This leads to the use of functional categories and the paradigm of selection as a filtering process.

The services to be monitored were selected by applying a two stage filter. A set of candidate services was constructed by a process of including and excluding. The union of services in the included categories minus the union of services in the excluded categories resulted in the first stage selection, which was then further augmented by the inclusion or exclusion of specific services. This process has the advantage of permitting a rapid specification of the interrupts to be monitored, and allowing subsequent modifications of the selection by reiteration.

To make this operation visually simple, the PCWATCH panel presents a list of the possible categories, as well as a scrollable window where each specific service is listed. As a category is included or excluded, each of the specific services that are affected by that choice are also marked as included or excluded when listed on the screen. In this way, the selection can be readily reviewed, modified, or augmented by specifically including or excluding particular services.

The visual include/exclude mechanism was generalized to apply to the selection of other optional PCWATCH functions, such as the level of information presented during monitoring, selection of output devices or display formats, and activation or deactivation of special features.



## Customizations

In order to avoid specific BIOS or DOS dependencies, PCWATCH does not attach any semantics to a particular interrupt. All information about what an interrupt represents (and the definition of its subfunctions by codes in registers) is supplied in a file called PCWATCH.TBL.

This is an ASCII file containing definitions of all of the system services that can be intercepted by PCWATCH. It is supplied with a comprehensive set of definitions for all current BIOS and DOS services (including DOS 3.1), but it can be easily modified with any text editor to encompass future extensions or additions.

PCWATCH is supplied with a companion program PCWTBLB, referred to as the PCWATCH Table Builder. PCWTBLB allows you to customize and tailor PCWATCH's operation by reading the PCWATCH.TBL file and incorporating the definitions found there directly into the PCWATCH program.

The following customizations are possible:

- The interrupts (and their subfunctions) that PCWATCH is permitted to monitor.
- The names and definitions of system services.
- The assignment of system services to functional categories, including three user-defined categories.
- The types of control block formatting to be applied to data that is passed as input to a service or returned as output, or both. Different formatting may be requested for input and output data. The control block formatting options that may be specified are:
  - Format the data at DS:(BX) as a DOS ASCII string.
  - Format the data at DS:(DX) as a DOS FCB.
  - Format the current BIOS diskette parameters.
  - Format up to 13 words from the stack.
  - Format the status bytes from the disk or diskette controller.
  - Format the data at ES:(BX) as a PC Network Control Block.
  - Format 32 bytes at DS:(BX)
  - Format 32 bytes at DS:(SI)
  - Format 32 bytes at DS:(DX)
  - Format 32 bytes at ES:(BX)
  - Format 32 bytes at ES:(DI)
- The designation of certain services as ONEWAY. A ONEWAY service is one that does not return to its invoker under all circumstances. This information is important to the way that traps are set and handled by PCWATCH.

Some examples of ONEWAY services are:

Interrupt 00 - divide by zero program exception  
 Interrupt 20 - normal program termination  
 Interrupt 21 AH=4C - exit with a return code  
 Interrupt 23 - DOS Control-break handler  
 Interrupt 24 - DOS Critical error handler  
 Interrupt 27 - terminate and stay resident

- The keys used by PCWATCH to suspend, resume, or terminate its operations.
- The interrupt used to interface with a resident debugging program. Typical choices would be

Interrupt 01 - single step,  
 Interrupt 02 - nonmaskable,  
 Interrupt 03 - breakpoint;

but any interrupt may be specified if appropriate.

Because 40% of the current size of PCWATCH is consumed by information from the PCWATCH.TBL file, the PCWATCH Table Builder program can be used to generate customized versions of PCWATCH that are optimized for particular situations or application mixes.

### Practical Applications of PCWATCH

There are four application areas. Each has its user community.

Application	User Community
Program debugging	Software developers
Problem determination	Departmental PC Administrators
	PC Network Administrators
	Software Evaluators
	Home Users
Learning about how programs work	Novices
	Educators
	Software Product Reviewers

**Program Debugging** A programmer, reading the DOS Technical Reference manual, has decided to write his own special purpose diskette copy routine. Because of the specific nature of his program, he has decided to use interrupt 25, the DOS absolute disk read service for his input. From the description in the DOS manual he knows that starting with logical sector number x, this service will obtain y 512-byte sectors and place them in a passed buffer area. His program simply provides the values of x and y and a buffer location.

Our programmer has concluded that in order to copy one double sided diskette it is sufficient to set x to zero, y to 720, and pass the address of a 360k buffer. He writes a small program to confirm this. When tested the service appears to work (no error indications are returned), but upon closer

examination much of the buffer is discovered to be unused, and most of the expected data is missing. Furthermore, some program storage areas preceding the buffer have been completely destroyed. What has gone wrong?

With conventional debugging approaches, such as the use of breakpoints, tracing of procedure calls, or selective displaying of program variables, it is a fairly straightforward process to verify that all of the inputs to the DOS service have, in fact, been properly specified, and that no error flags have been returned. This might, in desperation, lead to subsequent experiments to determine what effect, if any, varying some of the parameters will have on the results. That is, we might be tempted to proceed by trial and error techniques in an attempt to learn more about why the DOS service is not functioning as described in the book.

PCWATCH addresses this problem in a very straightforward manner. Since we are suspicious of the internal functioning of DOS interrupt 25, it is a natural candidate for PCWATCH's How does it work? mode. To find out, we run PCWATCH, include the Int25 DosAbsRd function, exclude NOISE and EXTERNAL categories (seldom of interest when trying to understand the inline actions of a function) and select the Nested Events option (Nested Events is the program option that triggers the 'How does it work?' mode of operation). We then start PCWATCH and rerun the faulty program.

When the INT 25 service is finally invoked (and not until then) PCWATCH displays all of the internally used DOS and BIOS services that are not in the excluded categories. When the INT 25 service concludes and returns to the invoking program, PCWATCH monitoring ceases automatically.

We can quickly observe from this that the key BIOS service employed by INT 25 is INT 13 Read Sector. By 'watching' the parameters generated by DOS and passed in registers when using this service, we observe

- DOS *does*, in fact, read all 720 sectors from the diskette, nine sectors at a time, resulting in eighty calls to the BIOS INT 13 Read Sector service.
- The offset portion of the buffer address, originally supplied by the user program, is incremented by 1200 hex (4608 decimal, equivalent to 9 x 512) on each use of the BIOS Read Sector service.

However, the offset portion of the address overflows when it exceeds 64K and wraps around to zero again, with no corresponding adjustment of the segment portion of the address.

Now, we know what was going wrong. Although not mentioned in its description, the DOS Absolute Disk Read service is clearly not prepared to deliver any more than 64k bytes of data with one invocation. Not only that, but even 64k is only obtainable if the initial value of the offset portion of the buffer address is set to zero. Furthermore DOS fails to detect this error and returns an indication of successful completion.

We cite this example only to illustrate how a rather subtle (and poorly documented) aspect of DOS's behavior can be readily brought to the surface with a simple application of PCWATCH.

**Problem Determination** Debugging is something that software developers frequently need to do, but problem determination is a phrase that embraces a more universal activity.

One of the strongest virtues of the IBM PC is its open architecture. An unfortunate aspect of an open architecture is that the integration of separately obtained hardware or software parts, is frequently left to the end user. Generally, when used or installed in the correct context, all of the pieces fit together smoothly, but occasionally the correct context is not exactly clear, and hardware or software incompatibilities are the result. Determining how or why a product is not functioning properly, or ascertaining its system requirements, is a common exercise in problem determination.

Large organizations sometimes cope with problems like this by establishing focal points for their resolution. Departmental PC administrators, network administrators, software evaluators, and other positions sometimes exist to insure that individual PC users need not have their time spent unproductively wrestling with such problems. In the home marketplace, each PC user is necessarily left to cope as well as possible with more limited resources.

Consider an average user confronting a new program that refuses to run. Perhaps the program appears to do nothing, hangs the system, or produces an insightful message like Required file missing or Unable to create profile. It's at this point that most users will decide to read the documentation. But for some, even this drastic step may not lead to any apparent remedy. What recourse is available?

A typical solution set for this type of problem might be to

- Retry the program. Maybe the problem will go away.
- Make random alterations in the hardware or software configuration to see what effect they might have.
- Call the dealer, supplier, or possibly a technical support number.
- Find another user and ask for help.

Program developers or technical people may even tackle the program with a debugger by tracing through the machine code to try to understand what the program needs.

PCWATCH provides a simple alternative that even non-technical users can apply to such problems. The capability to monitor broad categories of system activity, when confronting a problem of unknown nature, and then to narrow the focus of interest selectively, will frequently suggest sources of conflict or point directly to the problem.

If the problem is that the program appears to do nothing, or causes the machine to hang, including the PCWATCH categories BIOS and DOS, while excluding NOISE, will provide a fairly comprehensive overview of system activity leading to the failure. If the program terminates with messages that fail to isolate the problem sufficiently, just including the category DOS (and excluding NOISE) is frequently adequate. This simple expedient can expose a host of potential problems, many with obvious procedural remedies, by 'showing' precisely what the program is trying to do.

If it's trying to open a file that's not there, PCWATCH displays the filename. If a leading or trailing backslash was needed but omitted from a command argument, sometimes it can be readily spotted from examination of path names constructed by the program. All directory and file references leading up to the error can be observed first-hand.

If one is wondering "Why did the diskette light come on?", what was going on at the time can be seen immediately. If DOS says "Abort, retry, or ignore" while reading a hard disk or a diskette, the precise sector that has gone bad can be determined easily. Etc, etc.

**Learning about how programs work** One consequence of the proliferation of personal computers is that real computing power is becoming a resource available to more and more people. Those who know how to use and apply that resource are sometimes perceived as having an advantage over those that do not. So it is not too surprising that some people buy personal computers simply to learn how computers work and how to program them.

For anyone interested in understanding the relationship between programs, the DOS operating system, and the more primitive BIOS support, PCWATCH is a natural vehicle for filling in the gaps in their knowledge.

In some sense PCWATCH also contributes to the illusion that it is possible to 'see' what the computer is actually doing. For novices it is a giant leap from the conceptual model of the computer as a disciplined flow of electrons within a complex electronic circuit to one of discrete functional abstractions that relate to everyday concepts like programs and files. The visual representation that PCWATCH provides of the services that one reads about in the DOS and BIOS Technical Reference manuals enhances their reality, improving the metaphor that these abstractions are primitive atomic actions that make up the repertoire of the computer's basic functions.

With PCWATCH it is possible to follow the computer's actions as DOS is booted, see the loading of device drivers and the execution of the COMMAND.COM shell. By its very nature PCWATCH permits easy observation of the services provided by BIOS and DOS, showing their use in the context of working programs and normal computer operations.

A software product reviewer armed with PCWATCH has at his disposal a tool that will permit him to speak with authority when commenting on a product's efficient use of DOS services.

**Limitations** For debugging or general problem determination PCWATCH works best when the problem to be resolved is a repeatable one. Being able to repeat (ie, recreate) the problem will permit the narrowing of a PCWATCH specification as more is learned about the problem. A problem that cannot be recreated must be caught in the act (so to speak), and for this it may be necessary to operate the computer continuously with PCWATCH active.

**Conclusions** We have described the functional capabilities and design objectives of PCWATCH, and given several examples of its use in solving some common types of problems. Because of its interactive nature, and the intuitive character of its user interface, it broadens the range of PC related problems that can be tackled by non-technical users, while offering a new approach to difficult problems encountered by software developers. Since by its very operation it exposes the inner workings of DOS and application programs, it is also a natural way to learn about the functions provided by DOS and BIOS, and how they are used.

## **PCWriter 6024179 \$215**

This program provides functions for basic document entry, editing and standard letter personalization.

### **Highlights**

- Text creation and revision
- Document build
- Personalized letter draft and edit
- Spelling verification and assistance
- Synonym assistance
- Multiple operator profiles supporting multiple users
- Phrase glossary for frequently used words, phrases or tasks
- Operator interface similarities with the 5520 Administrative System and Datamaster word processing program

Text creation and revision capabilities provided by PCWriter include: Block move, replace, copy and delete; X-Y and contextual cursor control; background print using DOS print spool; insert or replace mode; global search and replace; find; multiple document formats; and multiple line headers and footers.

Document build functions are available to create documents composed of standard sections. The get/include functions are used to access standard sections stored in DOS files or other PCWriter documents. Personalized letters can be produced by using PCWriter functions to merge variable

information contained in a DOS file with shell documents created using PCWriter.

PCWriter contains an expandable U.S. English dictionary of approximately 120k words. This dictionary is used for spelling verification and assistance, synonym assistance, and automatic hyphenation during pagination and paragraph adjust. The phrase glossary capability allows frequently used words, phrases or tasks to be stored and accessed with two keystrokes. The operator interface is similar to that of the 5520 and Datamaster word processing programs.

By using the convert document for transmission function, output from PCWriter can be stored on diskette in the revisable-form text document content architecture (RFTDCA) format. This may allow documents created on PCWriter to be edited by other word processing programs or systems supporting this IBM strategic data stream format.

The level of compatibility for editing and printing of RFTDCA documents is dependent upon each product's functional capabilities and implementation. Compatibility documentation describing the level of interchange between the IBM Personal Computer PCWriter and other IBM products is available.

PCWriter also may be used with the PC Cluster Program (page 2-137). When installed on the PC, the PCWriter file named System.WPS, which is a read/write file, must be located on the disk or diskette of a station on the cluster or on the station's private volume of the disk server. Likewise, any created operator profiles (ANYNAME.WPS) must also be stored and accessed from a read/write location. All other PCWriter program files can be stored on the public volume, which is a read-only area of the disk server. Any licensed user on the cluster then can use the PCWriter.

**Environment:** DOS2 on PC, XT or PPC with 128k, two drives and printer

## **Personal Correspondence Manager 6276615 \$40**

Now SCRiPT/PC users get more for their money; link to Personal Editor and WordProof.

### **Highlights**

- Start SCRIPT, Personal Editor or WordProof with a keystroke. The document is selected automatically.
- Select the mail log function to log the filename of the item, author, addressee and subject.
- Add documents not created with this program to the mail log.
- Create neat formatted text quickly.

The program cuts down on repetitive work by allowing you to save often-used names and addresses so they can be used for different letters, memos and other correspondence.

**Environment:** PC, XT, PPC, AT or 3270-PC with 256k, two drives or one plus hard disk, matrix printer, SCRIPT/PC, Personal Editor I or II, WordProof I or II and DOS 2, 2.1, 3, 3.1.

## **Personal Decision Series**

There are no easy trade-offs for the professional and the skilled analyst when it comes to what must be done within a limited time. When there's lots to do and you need to deliver top quality results you need 'decision support' tools. This is a package of integrated applications—tools to produce quality results faster and to encourage new approaches to problem analysis and solution synthesis.

Use the Series to increase quantitative productivity and to stay ahead of the routine of extracting and combining text and data into reports. Its most sophisticated programs are for organizing and analyzing data and building hypothetical solutions (what-ifs). They give you the information to view the components and dynamics of the (problem) environment, and to synthesize alternate solutions. These are professional-grade tools that express your intellectual concepts and implement your ideas to produce the basis for precise decision making. The Assistant Series is an alternative to the Personal Decision Series. Both provide a strong set of IBM solutions for productivity applications. Both families are easy to use. The Assistant Series probably is the easiest to use of integrated productivity software available in the marketplace today. In terms of functional richness the Personal Decision Series is likely to be preferred; it is one of the most powerful sets of programs available. Definitely the choice of a power user. The Personal Decision Series is integrated into IBM's office system data stream strategy and is the strategic PC-to-host attachment.

There are fourteen members in the Series:

- Data Edition is the manager of the data base and the query to it. It includes simple report writing, asynchronous communications. Every Edition requires it.
- Data Training Edition will give you confidence when you're starting out; and will help you avoid forming bad habits.
- Reports+ Edition is the application generator and advanced report writer.



- Plans Edition is the modeling and spreadsheet application with graphics.
- Plans+ Edition adds advanced modeling, statistics and finance functions.
- Graphs Edition produces high-quality graphs to visualize and present your results.
- Words Edition is the word processor, and can merge items from your data base into your text.
- Attachment/36 Edition extends the PC to include System/36 storage and programs.
- Attachment/370+, page 2-51, connects to VM or MVS and their networks, including other Personal Decision Series.
- Mailing labels Edition creates and updates a name/address file. Processing includes selection, sequencing and printing.
- Asset Catalog Edition maintains location, status and value of properties and documents.
- Prospect Tracking Edition is a methodology to organize information about contacts, customers and prospects.
- Client Time/Cost Accounting Edition records charge components and prints statements.
- Appointment Calendar Edition manages events and deadlines; reports are used for planning meetings, events and coverage.

Note that the last five programs (Mailing Labels, Asset Catalog, Prospect Tracking, Client Time/Cost Accounting and Appointment Calendar) are not general purpose application generators or tools. They are commonly used business (and non-business) activities. They are economical—a quick start to the use of Reports+... since that is how they were built! You can see how they were designed and constructed, by printing out the specifications for each program.

Storyboard, page 2-219 is an easy to use program for preparing and presenting vibrant color presentations. It offers exciting and sophisticated presentation techniques. Your images can move, change, blend, and fade. you can revise a word or the entire program until the last moment. You may work for a large business, or for a small school; it doesn't matter. Storyboard makes moving stories an affordable reality. You can use work done with other PC programs to enhance your presentations, for example graphics from Personal Decision Series Graphs or Plans+. DisplayWrite 1, 2 or 3 may be entered from the main menu and is compatible with the Series. For example you can do mail merge with data or text from other

Editions of the Series. Words documents can be converted to Revisable Form Text for transfer to DisplayWrite or other IBM Office System programs and devices.

Order Personal Decision Series Editions from your IBM Branch, authorized IBM dealer or mail the Order card in back (except for Attachment Editions). If you have questions about the Order, call IBM Direct 1-800-IBM-2468 and ask for the PC Order department. You even can place the order directly by phone.

Program-related defect service is available for ninety days after receipt, but not beyond the Service Termination date specified in the current Program Announcement. Extended Support is available for a subscription fee; details are included with the product.

The Business Management Series is a companion package of programs that is compatible with the Personal Decision Series. Both Series were architected to be used together. Outputs from specified programs in the Business Management Series can be input to the Personal Decision Series. To the user the programs 'look and feel alike'. This Series is presented on page 2-69.

The objective of the Personal Decision Series, simply, is to bring the *user's* data and its associated query and manipulation within the hands-on proximity of those who know most about its use. With a few hours study and practice many professionals will find that the majority of their information processing can be self-contained. The data base is im/export compatible with most of the common filetypes and formats used under DOS. Professionals and even power users don't want to learn a programming language to update their data or retrieve it in display or printed form. Reports and Reports+ provide a simple and user friendly interface. Also you are not locked in to a nonstandard or proprietary programming language or technique to read and write your data. Operating within the Series **you can read and write to the data base with standard BASIC**. Non-programmers with a few hours study and practice often acquire enough knowledge of simplistic fundamentals to program the vast majority of their requirements and become self sufficient. Increases in productivity can be dramatic. Workteams of professionals and staffs also can *share* the contents of the Data Edition via its communications facilities.

The potential benefits are in the area of increases in the output of the knowledge-worker. Reduction in pressure and workload can result in freeing up some time for reflective thought and creative endeavor.

## Personal Decision Series

**Data Edition** 6410936 \$275

This is the data base for the entire Series. Data Edition includes easy to use but very powerful query and report writer procedures. It is an 'open' program, designed to exchange data with and complement other programs, even non-IBM programs such as 1-2-3™. Data Edition also facilitates data interchange with other PCs, VM, MVS and public data bases through its asynchronous communications features. You may read and write it with BASIC.

### Highlights

- Data organizes and maintains your data base. You can create files by keying, or import them from other Editions of the Series.
- Keying data is not hard. To reduce error, the input is edited immediately to your input formats, ranges, tables and patterns.
- You can import files from other PC applications e.g. Data Interchange Format files which are convertible.
- You can dial up other PCs, a System/370 and public data bases such as The Source (service mark) and Dow Jones™. Since the communications software is built-in to Data, you save the cost of buying a special communications package. The Asynchronous Communications Adapter (1502074) is supported.
- You can build files; search, sort, index and copy information; update fields, enter queries, perform selection, extraction and calculation; and finally generate your own report or display.
- You can tailor reports by selecting only certain records, then displaying or printing only those fields you specify. A *smart copy* feature selects specific fields from one file and writes them to a new file.
- You can add, subtract, multiply, divide, do variance, percentage and crossfooting. Sorted files can be displayed with up to five levels of summary totals.
- Many users will take advantage of the indexes to their files provided by Data. Others will need to read files created by other software. Additional file types supported are: DOS direct (random), DOS text, BASIC sequential and DIF™.
- If you develop a set of programs that use *any* of the editions, they can be sequenced (and resequenced) as a *procedure*. Now you can initiate a string of interrelated programs—even unattended.

- The Data Training Edition provides computer based training courses for novices and intermediate users. They help you remember facts about the product and indicate the proper methods to develop skill in efficient usage. The user is guided by simulated screens, key sequences and fire drills involving error conditions. It is optional; order 6410947 \$79.

**Environment:** Requires a PC, XT, PPC, XT/370, 3270-PC or AT with 256k (DOS 3.0 or later requires 320k) two drives or one plus a hard disk and DOS 2.1 or later. See page 2-51 for information on how professional PC users can tap the power of a S/370 host.

## Personal Decision Series

**Attachment/36 Edition** 6316971 \$219

Both programs provide the PC user with access to the data, hardware resources and network of the mainframe host. This opens communications to other Personal Decision Series Users, host terminal users and even other computers connected to the host. You can retrieve data from the very large host files, send your files to host and archive your programs and data. A popular usage of the host DASD is to create virtual fixed disks for users of the Series. Attachment/370+ is the successor to Attachment/370 Edition. An upgrade is available. The article on Attachment/370+ appears on page 2-51.

### Highlights

Ease of use features

- Menus display clearly what choices and options are available.
- The *rotate* feature displays all the valid responses to a given transaction—by pressing one key.
- 'Help' is provided in windows when you're stuck.
- The entire Series uses a consistent set of CRT screen formats, function key usage and keying sequences.

You have access to files created inside and *outside* the environment of the Personal Decision Series.

- You can copy supported file types from the host to the Data Edition and vice versa, while the Attachment Edition handles the necessary data conversion and translation.

- You can invoke data staging from production files in MVS and VM.
- You can use DOS direct, DOS text and indexed BASIC sequential file types.
- 'Smart' file copy allows limited subsetting and field selection, formatting and file type conversion.

You can use the disk space on the host as your virtual fixed disk.

- The host creates a simulated copy of a hard (fixed) disk.
- You do not need technical knowledge of the host process; it is transparent to you—and it is transparent to your programs.
- You can share your data with others, by your authorization.
- Each user can have two 10MB virtual disks active at any one time. (VM)

Archive your programs and files at the host.

- Take advantage of the large storage (even tape) at the host.
- Utilize the fast and reliable backup/recovery procedures on the mainframe.
- When you need to run a program or read/write a file it is very simple to download it to your Data Edition.

**Environment:** (Attachment/36) PC, XT or PPC with 320k and a 5250 Emulation Convenience Kit (6092656) \$745 and the Data Edition. The enhanced 5250 emulation card is required to access the fixed disk while in 5250 emulation mode. The System/36 requires Attachment/36 (5727-BRK) \$1,155.

## Personal Decision Series

**Reports + Edition** 6410937 \$165

This Edition enlarges the functions of the Data Edition to an advanced, comprehensive data base management system. Relational capabilities are available through Reports+'s ability to access multiple files concurrently. Users can create customized screens and reports to generate complete applications. Very professional looking forms and reports can be produced using this Edition's powerful logic and printing features. There is almost no

limit to your flexibility as advanced users can modify the resulting applications by inserting BASIC— statements, entire routines or programs.

## Highlights

- Data is accessible from up to six Data Edition files.
- Queries have Boolean and arithmetic functions. You can select and reorder fields and display them along with your calculated results. You can repeat the query with changes and save it for reuse.
- Output reports can be written to a report image file and shared with associates. The simple method is to mail them a diskette; or transmit it to their PC using the Data Edition.
- The CRT is used as a scratchpad to design output—the way you want it displayed or printed. Color printing is supported. Four print sizes may be combined: normal, compressed, double width or double compressed.
- You can design new CRT screen layouts for data entry or query. Specify constants and input/output fields. Build *windows* that are smaller (or even larger) than the CRT. Menus are handy and friendly, especially for casual users. And the *rotate* feature displays explanatory text for each response to a transaction.
- For the more demanding user... The architecture encourages you to write your own BASIC statements at various points. These are suggested e.g. to change the sequencing of reading and writing records or performing calculations and logic specific to a your requirements. You even can include *entire programs* written in BASIC including calls to others. Compiled BASIC programs can be executed as well as interpreted.
- If you develop a set of programs that use *any* members of the series they can be sequenced (and resequenced) as a *procedure*. Now you can initiate a string of interrelated programs—even unattended.

The Adviser is an optional program and book that provides additional training on the use of the Data Edition and particularly the Reports + Edition. The beginner will progress with building confidence in his skills and will reach the 'know it well enough to use it' level quickly. Progress thereafter will be free of bad habits and inefficient technique. The experienced user will use it as a brush-up and for the advanced tips and techniques illustrated and demonstrated. The user starts out with a methodology for analyzing his own application. Then he can formulate alternate computing designs; run them and select the best or combine features of each. The final step is construction of the implementation plan and its successful execution and evaluation. Order 6410941 \$65.

Reports+ is an advanced application generator. You can begin productive usage even with the 'training wheels'; and later use its richness and intricacy for repetitive and sophisticated processing.

**Environment:** The Data Edition is prerequisite to all members of the Personal Decision Series.

## Personal Decision Series

**Plans Edition** 6410939 \$165

**Plans** is a modeling and spreadsheet program with built-in graphics. Professional users (business and non-business) can construct simple or intricate models of plans, projects, financial analyses, budgets, forecasts and alternatives comparison. It consists of a sophisticated set of connected functions that perform calculations, interprets expressions, builds and formats the output report. You store and retrieve from the Data Edition. For repetitive applications, there are facilities for data entry, calculations, graphs, reports and model construction.

Once you have selected your data items and defined your computations, recalculations with variables requires the touch of a key. You would vary your computations with the same or alternate data to produce a series of alternatives, or variations upon a single theme. Often a series of different approaches will yield a single valuable insight. Also, the ability to run many very closely spaced variations can produce a highly optimized solution. Printing several large spreadsheets is enormously efficient compared to typing them.

Plans uses the familiar format for spreadsheet data analysis. Numbers and text are entered and displayed on the screen in cells, rows and columns. Use the output as a draft worksheet or format it as a report.

*Data entry* is not hard. When typed, it is written to the cell that is highlighted. An entire row, column or block can be filled with the same or unique values or text in one keying. You can import data from the Data Edition directly to the sheet. So, you can access the outputs from and other popular spreadsheet programs that use the Data Interchange Format. Similarly, you can export DIF™ files.

Changing and rearranging data items is done by simple and logical commands. Rows and columns can be inserted, deleted, moved and copied with one command. Cells can be protected from mistaken manual data entry or an error in calculation.

*Calculations* are entered as a list of instructions in a 'window' and are saved and protected separately from data items. Instructions reference

values in any row or column, in any sequence as often as you require. The list approach (also called procedural calculations) has advantages compared to a cell by cell specification. You are not restricted to a required row or column calculation sequence.

Operations on rows, columns or blocks can be defined in a single instruction and do not have to be replicated from cell to cell. This reduces the number of instructions that is entered or reviewed. These concise calculations are logical in their relationship to results because both can be displayed on the screen at the same time. Results are easy to verify with the concise listing (and several other features) provided. You optionally can view the results of each calculation in a single step mode. The 'break' command is available to pause when a cell has been altered, whereupon the causing calculation is identified.

*Calculation functions*, in addition to add, subtract, multiply, divide, integer division and exponentiation:

ABS	Return absolute value.
CUM	Accumulate a running total.
EXP	e to the x
GROWBY	Grow a value by a specified value.
GROWBY%	Grow a value by a percentage.
GROWTO	Grow a value until equal to a given value.
GROWTO%	Grow a value to a percent of a given value.
INT	Return only the integer portion of a number.
LN	Calculate natural logarithm.
LOG	Calculate log base ten.
MAX	Return maximum value.
MIN	Return minimum value.
MOD	Give modulus remainder.
NCARRY	Carry negative values forward.
NEG	Pick only negative values.
POS	Pick only positive values.
RNDUP	Round to the next higher integer.
ROUND	Round to a specified number of decimals.
SHIFT	Shift values.
SQRT	Extract the square root.
SUMH	Sum horizontally.
SUMV	Sum vertically.

Parenthetical expressions are usable to define formulas or construct multiple arithmetic operations. Operations can be performed on rows, columns and ranges of cells. Numbers are displayed with precision to fifteen decimal digits. You can calculate calendar dates from numbers and vice versa.

Here are some examples of functions that use the same set of instructions for varying sets of data and conditions:



For-Next	Repeat a series of calculations.
If-then-Else-Endif	Conditionally control a sequence of calculations.
Choose	Choose a value from a list, based on the initial value.
Lookup	Row lookup and return a value.
Namefor	Assign a name to a range.
Input	Request input from the keyboard.
Indata	Input data from another spreadsheet file.

*Graphs and charts* are built-in functions that improve your analysis and presentation communications. Output can be a) viewed alone or displayed with its associated spreadsheet which requires two CRTs, b) printed or c) saved as input to Words.

Chart types are: pie, bar, stacked bar, line, dot or scatter diagram. They can contain titles, legends, a scale and names for x and y axes. Choose from two sets of color.

Output devices supported are: monochrome or color CRT with a resolution of 320x200 pel attached via an IBM Color Graphics card and Graphics Printer attached via the Parallel Printer adapter. Color is optional.

You can work with formatted data on the CRT or on a printout. Numbers may be edited with commas, money symbols, percent, decimal places or scientific notation. You can edit in quantity or as you key them in. All text, including headers and footers can be centered or left/right-justified. Formatting can be controlled one cell at a time or globally. Cells automatically are formatted unless you override.

Columns of data can be hidden from view; you have the option to omit all zero balance cells from the display. Text that cannot be displayed within the current column width is carried over into adjacent columns if the cells are empty. Entries in a column are sortable ascending or descending.

Ranges of data with associated row and column headings can be selected for printing. Page headings, row headings, column headings and footing text may be set up on all report pages. Output can be saved in the format for printing or passed as input to Words for merge into an output document.

*Reuse of calculations, spreadsheets, models and data* is an enormous time-saver. It's easy to build models that operate on multiple sets of input data. Calculations are saved separately from associated data and prompts for data to be keyed can be added conveniently to the calculation instructions. The *procedures* capability in the Data Edition can be used to automate the performance of a series of tasks, including the automatic update of input received from Data.

A maximum of ninety-nine columns is available. The row count is dependent upon the amount of data in each cell, the number of columns and the amount of memory. Theoretically, upwards to 9,999 rows is possible. Text cells can contain 132 characters. Cells occupy memory only when they contain data. Numbers are precise to fifteen decimal digits.

**Environment:** The Data Edition and 320k (384k with DOS 3.0 or later).

## Personal Decision Series

**Plans + Edition** 6410972 \$335

**Plans** includes all the functions of the Plans Edition...plus a good deal of specialized and sophisticated arithmetic, logic and control functions. Engineers, financial analysts and statisticians should consider this program as the alternate to Plans.

Spreadsheets with a common format may be combined to produce a consolidated output. Each input cell value is multiplied by a factor before the new spreadsheet is written.

You can include conditional statements, loops and subroutines in calculation instructions. You can build models that have ranges of numbers as parameters and perform goal seeking iterations, e.g.:

GOSUB	Go to a labeled subroutine.
GOTO	Go to a label.
LABEL	Give a name to a statement or subroutine.
RETURN	Signal the return from a subroutine.
WEND	Delimit a 'while-do' statement.
WHILE-DO	Execute as long a given condition is true.

Here are some *financial macro-type functions*:

ACRS	Depreciate using the ACRS method.
CGR	Apply compound growth rate.
COMPND	Calculate compound interest.
DEPR	Calculate depreciation.
FVAN	Calculate future value of annuity.
FVIN	Calculate future value of a current investment.
IRR	Calculate internal rate of return.
LOAN	Calculate a mortgage loan payment schedule.
MORTA	Calculate mortgage amortization of annuities.
NPV	Calculate net present value.
PVF	Calculate present value factors.
PVAN	Calculate the present value of an annuity.
PVIN	Calculate the present value of a future.

*Statistical functions*; these calculate or fit the

AVG	Average values in a row.
CNT	Number of non-blank entries.
DIFF	Difference between two values.

DIFF%	Difference percentage between two values.
FITAV	Fit a projection using average between values.
FITLRG	Fit a straight line using least squares.
FITMAV	Moving average projection value.
FITQD	Fit a quadratic (parabolic) curve.
FITSL	Fit a straight line.
STD	Standard deviation.
VAR	Statistical variance.

*Transcendental* functions calculate the

ACOS	Arc cosine.
ASIN	Arc sine.
ATAN	Arc Tangent of x.
ATAN2	Arc tangent of y/x.
COS	Cosine.
PI	Result using the value of pi.
SINE	Sine.
TAN	Tangent.

**Environment:** Requires the Data Edition and 320k (384k with DOS 3.0 or later).

*Plans + Upgrade Kit* will upgrade your Plans Edition to the same publications and programs as a new Plans + Edition. The cost is \$150 and the offer expires on April 30, 1986. Obtain an order form from an IBM Product Center, your authorized dealer or your IBM Branch Office. Send in the form with the original front cover of Plans Edition plus the top half of Plans #1 diskette. Add applicable state and local taxes. And make check or money order payable to IBM. Mail to IBM Update Service per the instructions on the order form.

## Personal Decision Series

**Graphs Edition** 6410938 \$225

**Graphs** is a presentation quality business graph generator. You can produce quickly a wide range of charts in an enormous number of variations. **Graphs** retrieves its input from the Data Edition plus anything you add and alter at the keyboard. You can create new color visuals or modify those stored in Data. You even can produce hard copy for presentation transparencies.

Simple menus guide you through the steps of selecting the type of chart/graph, specifying the input data and tailoring the output to fit the occasion. Start quickly by using the preset default annotations and marking for each chart type. Samples of chart types and annotations can be

displayed while building. And all possible choices of chart types and annotations can be reviewed by pressing a key. Automatic scaling and calendar labels are available. Your output is saved in Data and can be merged into the output of Words. You can recall your saved output from Data and modify it; build your own library of samples as a running start for new graphs.

When extracting your input from Data, you can do the logical and arithmetic selection—just as if it were a query to Data. Then do additional calculations before sending it to Graphs. Pie sections can be offset/exploded; bars can be stacked or clustered, surface charts can be summed and you can even implement logarithmic scales. To increase the impression of your illustrations, use a variety of print, sizes, colors and angles. Up to four illustrations per page can be printed/drawn to your specifications.

The work screen previews all tailoring features as you are designing the output. Graphs can be in different colors and accented with fill patterns. You can combine color text and graphics. Choose your own headings and titles, explanations and legends. And for that professional quality look—you can even request a frame around your graph.

This is the menu of chart types: line, dot, surface, bar (horizontal, vertical, stacked, floating, overlapped and inline), pie, line and bar, scatter, text (outline, indents, bullets) and combinations of several charts on one page. You can tailor your chart by

- Selecting line style and color, point markers, fill colors and patterns.
- Implementing linear and log x-y axis scaling.
- Altering print font, size, color, angle and direction.
- Switching and matching colors and patterns.
- Adding text to the chart wherever desired.
- Increasing, decreasing the size of the graph or its position relative to surrounding material.

Your output can be printed, plotted, displayed on CRT and even photographed from the CRT. These output devices are supported:

- Color Graphics Monitor plus its Adapter card
- 7372 Plotter attached via RS232C ACA.
- Graphics Printer or Color Printer attached via Parallel Printer Adapter
- IBM Instruments X/Y 749 or 750 Plotter attached via RS232C Asynchronous Communications Adapter

**Environment:** A color CRT with minimum resolution of 320x200 pel, a Color Graphics Adapter card (an APA Adapter is required on the the 3270-PC) and the Data Edition.

## Personal Decision Series

**Words Edition** 6410940 \$165

**Words** is a versatile editor, word and text processor designed to be easy to use by professionals, casual typists, and executives. It yields increased productivity to the professional immediately because of its simplicity. Documents can be prepared professionally for final form by Words. For extremely sophisticated documents, Words can easily create drafts to be edited and finalized by secretarial staff using DisplayWrite 3.

Name and address lists, form letters, form paragraphs, canned text, shell and skeleton documents can be stored for recall and insertion processing. You simply indicate where the Data fields are to be inserted. ASCII files are supported. You can merge fields, records or whole files from your Data Edition into your output document; or file its image for printing later. The output of Reports+ is available to Words, as are Queries to Data, spreadsheets from Plans and Plans+ and even your illustrations built by Graphs.

Proofing, correcting and editing can be done by the composer or transmitted to an associate. The basic techniques are not hard to learn or use. You can insert, replace and delete characters, words or any chosen block of text. Move up or down by line or screen or jump to the beginning or end of a line, screen or document. You don't have to look up or press a carriage return; word wrap starts the new line properly.

A selection of sample documents is offered (as defaults), which specifies sample page size, line spacing, font, margins, tabs and other format characteristics. Start with these and modify them for your own format library. The individual functions and features of Words are numerous; here are those most often used:

- Creates 'revisable form text' documents for interchange with other IBM office systems.
- Automatically back up document at fifteen minute intervals.
- Insert, erase, copy, move characters, words, blocks.
- Set tab, set decimal tab, align decimals in column.
- Reset right margin and adjust entire document.
- Find words, numbers and replace.
- Print document or portion of it while editing it.
- Combine text with another document while editing.
- Underline and boldface.
- Accent characters.
- Enter special characters using alternate key and ten-key pad.
- Count words in a document.
- Display a 'help' screen.
- 'Ghost' cursor
- Scale line with rule and tabs.
- Auto paginate.

- Override preset format defaults.
- Print headers and footers.
- Number and date pages.
- Retain a group of lines on one page, non-split.
- Leave white space.
- Change print size.
- Adjust margins after Data fields have been merged.
- Output to CRT for print preview.
- Print multiple copies unattended.
- Output document image to disk.
- Spell check documents by function key using Word Proof.

The IBM Graphics (matrix) Printer is supported. Before attaching another printer, e.g. a letter quality printer, consult the Data Edition manual, topic 'Set PDS'; and the 'Installation' section of the Words manual.

**Environment:** The Data Edition is a prerequisite.

## **Personal Print Control 6276573 \$30**

A spooler and a controller—working partners to save you time. Don't wait while the printer runs; keep working. And with the controller you switch to advanced printer function windows while your application is running.

### **Highlights**

- Select buffer size up to maximum memory, minus DOS and 32k.
- Print multiple copies.
- Control printing while operating under DOS.
- Display online help and status windows.
- Switch between serial/parallel printers both ways.
- Load and unload the print buffer to and from a user specified file.
- Print the output file and also file it for retention, rerun or backup.

You won't have to wait long for printer work. Simple commands clear, reprint, hold or file printed output. You even can change from one printer to another.

Display the contents of the print buffer to align forms or recover from printer errors, with two keystrokes. Use the controller to mark and select jobs for printing and to invoke your printing priorities.

- Mark and position to jobs in the buffer for reprint.
- Compress, doublestrike, double-width, emphasize or underscore.
- Define print control characters strings to match your printer.

**Environment:** PC, XT, PPC, PCjr, AT or 3270-PC with 128k, one drive, matrix printer and DOS 2, 2.1, 3, 3.1

## **Personal Scientific Calculator 6276513 \$25**

Math power from simple arithmetic to scientific calculations. Turn your PC into a scientific computer with memory, display and programming logic.

### **Highlights**

- Display a full screen of active stack and memory areas for variables.
- Access standard constants for commonly used conversion factors.
- Designate fixed decimal or scientific notation.
- Write the logic for a standard calculation once; then call it for reuse.
- Display degrees or radians, real and complex numbers, Cartesian or polar coordinates.
- Compute: sin, cos, tan, arcsin, arccos, arctan, sinh, cosh, tanh, arcsinh, arccosh, arctanh, factorials, inverse log to base ten, log to base e and e raised to a power.

The Calculator can help you balance your checkbook or solve a problem involving complex numbers, trig functions or coordinate conversions. It combines sophisticated math functions with the memory, logic and display of the PC. Even a first time user can operate the simpler calculations.

**Environment:** PC, XT, PPC, PCjr, AT or 3270-PC with 128k, one drive and DOS 2, 2.1, 3, 3.1.

## **Photosynthesis and Light Energy 6871522 \$70**

This program is designed for any science curriculum that includes study of living systems.

### **Highlights**

- Realtime simulations to demonstrate phenomena such as Euglena growth under varying light wavelengths
- Opportunity for what-if questioning in determining the absorption and reflection of the spectrum through a prism

- Detailed charts and diagrams

This program designed for any science curriculum that includes study of living systems. The inquiry approach is used to investigate the biochemical process of photosynthesis. Animated simulations, challenging activities, and impressive color graphics illustrate the characteristic of light and its role as an energy source. Students are involved in controlled experiments with explanations that facilitate and reinforce comprehension.

The documentation is written for educators by educators. Included are structural objectives, timelines, suggested activities, and reinforcement exercises. The package has concise review and information screens throughout the program, graded quizzes after each unit module, and a separate on-screen testing module.

**Environment:** PC, XT or PCjr with 128k, one drive, color CRT, matrix printer and DOS2.

## **Browstext 6276635 \$25**

This is an ideal editing tool for writers and programmers. Use it to display a directory listing of your files; then select the file you want to browse or edit. The directory listing is convenient for copying, renaming or printing files.

No text or program file is too big for Browstext. It divides the file into segments that can be browsed or edited in any order.

- Select files from a directory listing.
- Find files in any subdirectory.
- Browse or edit two files at the same time, or move and copy from one file to another.
- Set function keys as desired.
- Online help feature provides information about any command.
- Execute external DOS commands.
- Support for Enhanced Graphic Adapter in 25- through 43-line mode.

Advanced users can browse or edit hex files or sectors on a disk. Its full-screen hex editor displays data in both hex and ASCII.

No more clumsy fingers pressing a bunch of keys at the same time—Browstext has an option that lets you lock the keyboard in either the Ctrl, Alt or Shift mode.

This is a versatile tool with many of the same features as popular text editors but at a very affordable price.

**Environment:** PC, XT, AT, PCjr, PPC and 3270-PC with 128k of memory, one disk drive and DOS 2.0 or later.



## PILOT 6316973 \$219

**PILOT** is a complete and integrated system that provides for the authoring and presentation of computer aided instruction.

### Components and Highlights

- **Extended answer analysis** refers to an author's ability to analyze the student's response to a question, proposition, or problem. Conventional systems, such as IIS, support exact match of single words or strings of words, the use of *don't care* characters and an *either/or* logical selection. PILOT provides this level of support and in addition permits *phonic matches* and a negation operator. This is used to list prohibited words and terms in the student's answer. Because of the mathematical and logic extent of PILOT's commands, manipulation of string variables is straightforward.
- **All information is available as variables.** Any information can be saved and processed as a character, symbol, number or letter. Answers from a previous student's session can be saved for subsequent use. Answers can be manipulated as arrays or vectors. Information about students e.g. their progress to date, can be manipulated similarly and saved in the student record file. Because data can be referenced and processed symbolically, the mechanics of writing the course (courseware) are simplified, but function is not sacrificed for simplicity.
- **Sound generator control** is provided for pitch and duration. The repeat command will replicate a string of sounds as often as desired.
- **Animation** is an important technique for some instructional forms or audiences (students). Some examples: information flow, computer aided design, biological cell depiction, chemical reactions, trade route development, military maneuvers on map, experiments in optics and mechanics. Capturing the fancy of the very young, or slow student is an enormous potential.
- PILOT supports the patterned movement of large objects and pixel movements.
- **Logo graphics** are all points addressable with an invisible Turtle. When the student does an immediate execution instruction, all information can be treated as variable. So, the student easily can draw a line or other graphic structure. PILOT recognizes the action and constructs a modified graphic. Or, the student can watch a picture change resulting in his change of a variable.
- **A graphics editor** is provided which makes the construction of full screens easy. Then the author invokes the stored screen (frame) upon which graphic or text overlays may be superimposed. Since PILOT can

manage multiple windows, you can retrieve and display a fraction of a screen or the full screen in one or several windows. By combining Graphics, animation and sound, the author may create a spectacular mental image.

- **Windows.** There is no limit on the replication of windows; PILOT can manage all of them. Once defined, further transactions occur without changing other windows. This permits commentary on illustrations and diagrams or other depictions. The 'help' window is nondestructive to the overlaid text.
- **User defined characters** are selectable by the author when any given key is pressed. Color also is an attribute of a character. Thus, the author constructs a Russian or Hebrew alphabet, math and science symbols, braille, Chinese, pictographs and glyphs. Definition is similar to the 3800 printer technique. Alternate ASCII characters are from 128 to 255.
- **Expression of math resolution** is at least equal to BASIC. This plus symbolic manipulation allows the author to supply an answer in the form of an equation to determine if the student's answer matches. Or a student may answer a question with an equation which PILOT evaluates and then compares with the correct answer. This facility is mandatory for constructing first rate courseware in the hard sciences.
- **Fourteen built-in functions** range from random number generation, multidimensional arrays, explicit string manipulations, arithmetic and trigonometric functions. These functions can be combined to permit enormous sophistication and precision in evaluation of student answers.
- **Inline math programming** can be included in text strings. On execution the value of the expression is calculated and inserted in the text.
- **Indexing and subscripting** are available to be used to select an individual value out of a numeric array or to select a substring from a string variable. Thus, in a string containing surnames and first names, either is selectable for use as part of a message or text.
- **All colors are supported.** This includes the eight basic colors plus lighter shades of each. Six CRT screen modes are supported. Multiple windows (viewports) can use different colors. In logo Turtle Graphics, the color of his tail can be changed with each succeeding pixel.
- **User written subroutines** are supported in Assembler and the C language. These may be called to activate a videotape or disc player/recorder or any other external device. You can incorporate the results of your own existing program library—an enormous benefit in developing courseware for science and computer literacy. Parameters are passed to the called subroutine and results returned as PILOT variables.

- **The Immediate Execution operator** (command) evaluates an expression to its string value. Then the value is executed as if it were a PILOT command.
- **Documentation** is complete and easy to understand. Instructional objectives are identified. Supporting instructor notes are provided.
- **A scoring facility** is built in--a most valuable worksaver for the instructor.
- Once the course is developed, its residence diskette may be duplicated and presented on any specific PC or any number of PCs.

The author uses an easy-to-learn command language to compose a large variety of interactive lesson frames, e.g. matching, true/false, multiple choice, direct question, fill in the blanks, simulation and text with graphics and illustrations. Graphics include logo Turtle Graphics.

Elementary and secondary teachers will appreciate the simplicity, ease of use and ease of learning. Professors will find that the system is capable of expressing their concepts even when those concepts are abstract, sophisticated or intellectually dense.

**Environment:** The minimum for non-graphic programming is a PC with 128k, one drive and DOS 2.0, 2.1, 3.0 or later. Full utilization requires a PC, XT, AT or PCjr with 128k, one or two drives or one plus hard disk, color CRT and DOS 2.0, 2.1, 3.0 or later. Color CRT is optional.

## **PL/I 6871350 \$750**

This compiler is designed to provide a complete program development tool. PL/I is a generalized, sophisticated and very extensive programming language.

### **Highlights**

- Based on ANSI standard
- Block structured, procedure oriented
- Extensive control structures
- Support for multi-user systems
- Dynamic memory allocation
- Comprehensive input and output
- Standardized exception processing

PL/I includes an optimizing code compiler, an assembler, a relocating link, a librarian and a cross reference generator. PL/I includes the advantages

of the block structuring of ALGOL, the string handling and decimal arithmetic of COBOL, and the numeric function and standardized input-output of FORTRAN. Commercial, scientific and system level programs may be written in PL/I. This program is compatible with all Digital Research programming productivity tools.

**Environment:** Requires a PC, XT or 3270-PC with 128k, one drive and DOS 1.1 or later. The CP/M-86® or Concurrent CP/M-86™ version is Order Number 6871351.

## **Portfolio Management 6276538 \$100**

A full-function securities pricing and portfolio manager at your fingertips. Autodial into Dow Jones® News/Retrieval service for a near realtime view of stock prices.

### **Highlights**

- Create and maintain your own portfolio and your customer's portfolios.
- Compute current market values of a portfolio.
- Calculate long and short term gains and losses.
- Print labels for customer mailings.
- Automated stock watch.

Autodial to Dow Jones is optional. You alternately can key this data. You can review last-sale data and examine trade history records in minutes.

**Environment:** PC, XT, PPC, AT or 3270-PC with 128k, two drives, matrix printer and DOS 2, 2.1, 3, 3.1. An autodial modem for Dow Jones is a supported option.

## **PrintDW 6276604 \$20**

Capitalize on your DisplayWrite investment; expand the use of the DisplayWrite files. PrintDW converts DisplayWrite print files to standard ASCII files without embedded printer controls; then you can manipulate the files in a conventional DOS manner. This allow you to take advantage of DW word processing programs to produce documents for use with compatible programs, printers and host software.

## Highlights

- Prepare DW files for use on printers capable of printing files with only graphics characters.
- Converts DW files to be uploaded to host, e.g. a System/370.
- Copy or move a range of lines from and ASCII file to a new file or device.
- Remove nulls from a file.
- Delete or change up to eight characters or eight two-byte escape sequences.
- Add or delete line feeds and carrier returns or reverse their positions.
- Customize PrintDW to recognize and strip out escape sequences for specific printers.

The DisplayWrite functions of required backspace, underscore, center, flush right tab, overstrike, cursor draw and sub/superscript should not be used in documents to be converted by PrintDW.

PrintDW is designed to strip out particular printer escape sequences used by DisplayWrite programs. A programmer can customize PrintDW to strip different sets of escape sequences.

**Environment:** PC, XT, PPC, PCjr or AT with 128k, one drive and DOS 2, 2.1, 3, 3.1.

## Print Screen Utility 6024186 \$35

This program allows the use of the 'PrtSc' key to send a screen of text or graphics from the 5153 Color Display to the IBM Color Printer. This program extends the Graphics (matrix) printer support.

## Highlights

- Supports the 5182 Color Printer.
- Provides all the support of the existing DOS graphics program.
- Supports both text and graphics screen modes.
- Supports medium- and high-resolution graphics.
- The optional four-color ribbon is not supported.
- If multiple monitors are attached, the program will print the screen from the active display.

Since the utility checks for the printer type (graphics or color), any printing in progress will be terminated when 'print screen' is invoked.

Since the display can exhibit sixteen colors while the Color Printer supports only eight, there is a correspondence between the two sets. This is a fixed mapping.

**Environment:** PC, XT, PCjr, PPC with 128k, one drive and DOS2.

## **Private Tutor: Computers and Communications**

6024069 \$39

Private Tutor teaches the use of IBM Personal Computers in communications systems. Clear explanations make this course ideal for personal computer users who are interested in setting up their own communications networks. This course is appropriate for inclusion in high-school level computer curricula.

### **Highlights**

- Shows how data networks operate.
- Teaches more than 100 data communication terms.
- Shows how to identify problems in a communication network.
- Displays all directions on the screen.
- Includes lessons in
  - Networks (shows the lines to connect).
  - Controls (three levels of communications).
  - Hardware (the equipment needed to communicate using a personal computer).
  - Software (using programs to support communications equipment).

**Environment:** Requires PC, XT or PPC with DOS 2.1 or later, one disk and 128k.

## **Private Tutor Presenter 1.1 6276602 \$20**

A basic self-study system for individual instruction, at your own pace. This is the prerequisite to these members of the Private Tutor Series:

- Algebra Tutor covers the fundamentals from integers and fractions to quadratic equations. Twenty-nine lessons with practice problems and reviews. Each lesson has an online workbook with exercises and answers. Order 6276529 \$30.

- Beyond basic BASIC covers subroutines to use in writing your own programs. It addresses input and error handling, string functions, upper-lower case conversion, printer control, color, music, function keys and menu design. Order 6276532 \$20.
- FORTRAN tutor is for the beginner. It covers arithmetic operations, input/output, program and loop control, arrays and files. For most of your questions you can get help on request. Order 6276567 \$20.
- Multiplication Tables teaches the concept of sets by counting graphic shapes. Brightly colored graphic numbers and geometric shapes maintain interest and snappy music reinforces correct answers. Order 6276601 \$25.
- Computers and Communications teaches the use of PCs in communications systems. It's ideal if you're interested in setting up your own network. This course is appropriate for high school curricula. Order 6024069 \$39.

As an alternative to the Private Tutor Presenter you may prefer more advanced and powerful features found in Private Tutor 2.0. It is a complete instructional system. Order 6024113 \$55. Requires DOS 2 up. The Private Tutor Series is budget priced. A comparison to other offerings with similarities is suggested by reading the articles in these pages on the Personal Computer Instructional System and PILOT.

- Author program encourages you to write your lessons on any topic for any age group. Or use the ones listed above to get started. Compose courses with preformatted text, question, matching and true/false display screens. You can integrate your BASIC programs into your composing of your lessons. You'll be encouraged to use full screen color graphics in your lessons. Or you can integrate a laser videodisc player.
- Preparer program reads the files from the Author program and generates the program read by the Presenter.
- The Presenter interacts and guides the student – is the user interface.
- The Reporter accumulates student records, lists students and prints course completion certificates.

**Environment:** PC, PPC, XT, PCjr, AT or 3270-PC with 128k, one drive and DOS 1.1 up

## **Professional Editor 6024048 \$139**

This editor has similarities to SPF. It's functions are rich. It is quite fast. It is tailored to the PC keyboard and CRT.

### **Highlights**

- Menu and command driven
- Soft keys onscreen
- Forty function keys
- Restore, after deletion of line or character
- Phrase and file macros
- Extensive, complex text formatting
- Word wrap
- Spill file
- Tabulation, center, justify, indent
- Command recall
- Profile
- Eighty column CRT support, including color

The operator manages functions and resources with menus, commands and function keys. Prompts are issued for the name of the file to be created or revised. The entire keyboard is usable when in edit mode.

The Personal Editor is a subset. Professional Editor has

- More extensive search and replace.
- Right margin justification.
- Command stack.
- More extensive user profile.
- File merge.
- Macros which insert character strings or files.

**Environment:** A PC or PCjr with 64k is required. An extended function version is supplied on the diskette that requires 96k; and 128k is utilized if available. A matrix printer and DOS are required. A second drive is supported and recommended.



## **Programmed Evaluation of Contract Option Strategies**

6276614 \$250

This program provides the options investor with a means of determining potential profit and risk associated with the myriad stock and cash settlement index option strategies available. It is a toolkit of analytical techniques that have been available only to options professionals at a premium price.

### **Highlights**

- Create and analyze strategies with combinations of calls, puts and underlying securities.
- Use the system supplied strategies or define and save your own.
- Complete instructions are provided on each screen.
- Display profit or loss, breakeven points, return rate indices, commissions, days to expiration, dividends and margin requirements for each strategy.
- Dynamically add or delete calls, puts or stock transactions to an existing strategy to see its effect on the P/L curve.
- Calculate the fair market value, hedge ratio and equivalent position via the Black-Scholes model. Utilize implied, user derived or program derived volatility.
- Perform 'what-if' analyses as you change the volatility, stock price or interest rate.
- Save, sort and compare the results of different strategies.
- Scan all stocks in a file to find those covered calls with the largest return rates, widest profit range or the calls that are most over or under valued.
- Use table driven, easily modified commission and collateral schedules.
- Automatic offsetting of individual legs of a strategy to ensure strategy margin requirements are commensurate with risk.
- Update price data manually or via Dow Jones™ News/Retrieval. Instant dial-up, log on, price downloading, log off and disconnect services are provided. Stock/option profiles are one of the many features available for retrieving option prices with minimal keystrokes.

**Environment:** PC, XT, PPC, AT or 3270-PC with 256k, two drives or one plus hard disk, matrix printer and DOS 2, 2.1, 3, 3.1. Hayes Smartmodem™ 300 or 1200 are supported options. Other modems may be used if they follow the Hayes protocol.

## **Project Planning and Scheduling 6276500 \$150**

You enter the details and stages of the project. The program tells you which tasks should occur concurrently and which are sequential or dependent. Estimated time of completion is calculated and various time/cost analyses are obtainable for normal and 'crash' conditions. The program identifies important activities that must be tracked. The program accommodates up to 450 activities and performs bookkeeping, scheduling, charting and reporting.

**Environment:** PC, XT, PPC, AT or 3270-PC with 128k, one drive. DOS 2, 2.1, 3, 3.1 requires 160k and a floppy plus a hard drive. If you have only one single sided drive or only 128k you are limited to DOS 1.1.

## **Project Scheduler 6871485 \$285**

Project Scheduler uses the Critical Path Analysis Method to define the attributes of a project and the Gantt chart to present the schedule. Each job is plotted over a time-scale graph according to its relationship to the other jobs on the schedule. Unique plot symbols are used to identify the status of individual jobs.

### **Highlights**

- Critical path is calculated and a Gantt Chart is displayed after each add, change, or delete.
- Projects are scheduled by days, weeks, or months.
- Activity start is assignable by start time or activity.
- Allows definition of labor categories, other cost categories, and holidays.
- Jobs may be 'completed' for status reviews.
- Milestones are annotated to identify special events in the project.

- 210 activities per project are supported.
- Menus and schedules are displayable in color, optionally.
- 9000 time periods are provided.
- Different durations can be assigned for each labor category within an activity.
- For additional financial modeling, labor and other cost data can be input to spreadsheet packages via a Data Interchange File interface. It is compatible with any program that imports/exports DIF files.

Project Scheduler's interactive capabilities reduce the project planning time by providing sophisticated but easy to use 'what-if' analysis functions. The menu prompts allow for fast data entry with help, warning, and clear error messages. Color and sound are used as attention directing features.

A report generator is built in. Project information available on display screens also can be printed or stored on a diskette. Using these reports, a project manager can report project and job status to project members and management.

**Environment:** PC or XT with 192k, one drive, matrix printer and DOS 1.1 or later.

## **Project Scheduler 5000 Plus Graphics™**

6085992 \$395

This program adds a built-in application that provides a resource and cost analysis capability. Utilizing project data, the application provides insight into all aspects of a schedule such as resource allocation, labor usage distribution and cost spreads. You can track your original baseline budget against current actuals and forecast.

The graphics support provides an interactive project management, offering presentations that display data in a meaningful, visual manner. You may obtain a hard copy of all the graphs on a printer or plotter—providing a permanent record that can be utilized in communicating project resource requirements or current schedule and cost status.

A demonstrator is available for \$30, order 6871500. See the 'Note' on demonstrators on the preface page.

**Environment:** PC or XT with 256k, two drives, matrix printer and DOS2 or later. Graphics requires a color or video composite CRT. A 7371 or 7372 plotter is recommended.

## **Property Management 6871317 \$495**

This program is designed to automate the bookkeeping details involved in the management of residential or commercial properties.

### **Highlights**

- Handles up to 1000 units per property
- Creates comprehensive financial reports
- Provides accrual and cash accounting
- Provides complete transaction bookkeeping
- Allows tenant rent / due dates to vary
- Posts late charges automatically
- Records printable audit trail
- Handles gross or percentage leases
- Calculates common area assessments
- Prepares detailed tenant statements
- Records increase dates and rates

Property Management records complete transaction history for residential and commercial property related charges, deposits, payments, refunds, and write-offs. It provides for automatic posting of standard monthly rents for easy entry and computing common area assessments and percentage leases.

A user may use a menu query to request the current status of any property, rental unit, or tenant. Property Management flags any expiring leases or overdue rents for immediate attention.

A user may enter property related expenses and income from non-rental sources in a format similar to federal tax information.

Property Management produces organized and readable reports for each property. A user can sort these reports in any of several sequences, including property and rental unit descriptions, tenant information, rental status, aged balances due, transaction summaries (audit trail), income and expense summaries. The program also can print tenant statements and mailing labels.

Property Management can interface to Peachtree and Continental (SBA) accounting packages.

A demonstrator is available; order number 6871320 \$25. See the 'Note' on demonstrators in the preface.

**Environment:** PC or XT with 128k, two drives or one plus hard disk, matrix printer (recommend 132 positions), and DOS 1.1 or later.

## **PROFS Personal Computer Connection (PROFS/PC<sup>2</sup>)**

6410984 \$219

The PC Connection provides the bond to the extensive principal support of PROFS on the System/370. It is designed for the professional who needs the decision support of the PC plus PROFS. The principal uses PROFS/PC<sup>2</sup> to transfer incoming mail and other incoming data and text to the PC for subsequent offline processing. The results of this processing can be returned to PROFS or printed locally.

### **Highlights**

- Open the mail; view a list of incoming mail.
- View a list of incoming mail.
- Process mail: file, forward, with buckslip, reply, print, erase.
- Use nicknames and distribution lists.
- Compose a note at the PC for distribution by PROFS.
- Print a PROFS document at the PC.
- Transfer PROFS/PC<sup>2</sup> actions to PROFS.
- Call the 'help' facility for assistance.
- Transfer files between the PC and the PROFS (VM system).
- Invoke DisplayWrite 2 (or 3) document interchange.

### **Potential Benefits**

- Host VM activity can be offloaded to the local PC with significant savings of central resources.
- The professional often can benefit from faster response time when processing locally. This is certainly magnified in event of outage or slowdown at the central site.
- There is no need to acquire a separate hardware terminal for a PROFS connection to VM.

### **Environment**

- PC or XT with 128k, DOS 2 or later, IBM Asynchronous Communication Adapter, full duplex modem (and host connected modem), double-sided drive, or...
- PC or XT with 192k, double-sided drive, 3278/9 Emulation Adapter plus associated hardware to connect to host, DOS 2 or later, or...
- 3270-PC, PC/G or PC/GX with 256k (512 for G), double-sided drive, hardware to connect to host.
- ISPF (EZ-VU Runtime).
- PROFS is required on the S/370, under VM.
- The 5216 Wheelprinter and 5218 Printwheel Printer are supported.
- File transfer to the 5520 is supported.

## **R:BASE SERIES 4000™ 6871479 \$495**

This program package is designed to organize data in an efficient and useful manner.

### **Highlights**

- The capacity to manage 40 files with 100 billion records
- Relation and attribute lists
- Teach and branch to direct commands
- Customized screen forms for data entry
- Editing and reports use the cursor keys rather than programming
- English like prompts and commands
- Retrieves data from multiple files
- Changes uppercase to lowercase (and vice versa)
- Prints special labels
- Automatic identification and explanation of improperly entered syntax
- Provides a direct interface to Multiplan™, dBasell™, and is compatible with 1-2-3™, VisiCalc®, WordStar®

R:BASE is a fully relational database management system. It provides a range of convenient features, including relational data validation. This allows data entered to be checked for accuracy using selected values or data contained in other files.

Relational database management software allows the creation of tables of information based on the contents of two or more files. R:BASE provides a stand-alone query, database definition, and report writer capabilities. Its

relational access functions include join, intersect, project, subtract and union, and an updated change command modifies selected values throughout all relations in the database.

A diskette tutorial (6871433) is available for \$15.

**Environment:** Requires a PC, XT, AT or 3270-PC with 256k, two drives, matrix printer, and DOS 1.1 or later.

## **Real Estate Investment Package 6276597 \$20**

Analyze investments before you sign on the dotted line. Use this program with your favorite spreadsheet. The package consists of seventeen spreadsheet templates that provide the data you need for a market decision. You fill in the blanks. Templates provide eight-year investment analysis, amortization, depreciation income and expense monitoring and lease vs. purchase comparison.

**Environment:** PC, XT, PPC or AT with 128k one drive and VisiCalc® 1.02, Multiplan® 1.0. or 1-2-3™; the latter require 192k.

## **Response Time Estimator 6316968 \$275**

This offering provides an attractive, easy to use technique for the evaluation of network design tradeoffs. Management has an ongoing method for evaluating the network as it is, or might be.

### **Highlights**

- Approximate user response time in 3270-like networks is simulated with an analytic queueing model.
- Networks can be SNA full and half duplex, multipoint, multi-multipoint or point to point. Binary Synchronous point to point or multipoint also is available.
- Stress points in message traffic are projected. Other features of the model highlight areas in which parameters or results are suspicious or out of expected operating ranges.

- Response times for each interactive link are plotted. The results are saved for future alteration and rerun. Output on diskette can be analyzed further or transferred to a high-resolution plotter.
- The impact and side-effects of altering network configuration may be assessed prior to a financial commitment.

### **Potential Benefits**

- Management is able to order and pay for network expansion no earlier than needed. Significant cost savings are available when response is not more favorable than needed by the operator.
- Management can devote less time to network planning when provided a projection and options of anticipated application expansion. The precision of management decision is superior to previous manual compilations and analyses.
- Applications can be evaluated before they are written. Management is much less likely to err in a situation where the network cannot be reconfigured economically.

**Environment:** Requires PC, XT, PCjr, Portable PC or 3270-PC with 128k and DOS 1.1 or later. A Graphics (matrix) Printer is optional to capture hard copy output of the detail report or the graphics display.

**RS/1 6317003 \$2,159**

Experience the cutting edge. Perfect for the technical professional as well as the business professional, RS/1 provides vast data analysis capabilities. All functions including statistics and graphics are simple to use. And with files managed automatically, RS/1 virtually runs itself. The complete integration of the system from input to output makes RS/1 an outstanding data analyzer. It runs on the PC, RT or VM. See the full text of the article in Section One.



## **The Scientific Desk™ 6187278 \$420**

This is a set of scientific problem solving tools. Programs, documentation, tutorials and examples are integrated into a scope-oriented format. The user selects and initiates functions from menus. These library programs are of high quality but are not difficult to use.

**Environment:** PC Engineering/Scientific Series. PC and XT require 192k and DOS 2.1 up. AT requires 256k and DOS 3.0 up. All require Math Co-processor and Professional FORTRAN.

*Simple to use! \*\*\* Easy to remember!*  
Change **Fonts** when you want to!  
*Underline any part of the text.*

## **Select-A-Font 6276514 \$20**

Expand your printer's versatility. Add nine new fonts to your IBM Graphics Printer. Choose from three sizes, nine character widths and two densities for each font.

### **Highlights.**

- Use a text editor that produces standard text files with Select-A-Font's easy markup commands.
- The commands control centering, line skipping and other aspects of formatting.
- Choose the width and style of type you want to use in your text and change them from line to line.

Select-A-Font provides basic formatting control such as indenting, justification, tabbing and underscore. Create attractively printed and formatted documents for transparency presentations. It can be used with: EDLIN, Personal Editor I and II, Professional Editor, PeachText™, HomeWord™, DisplayWrite 1, EasyWriter® and WordProof I and II.

**Environment:** PC, XT, PPC, PCjr, AT or 3270-PC with 128k, one drive, IBM Graphics Printer and DOS 1.1, 2, 2.1, 3 or 3.1

## **Short Hand 6276572 \$15**

Save time and keystrokes. Assign those repetitive commands to Alt key combinations. With Short Hand you redefine keys and with the Alt key, call up long sequences of keystrokes that are used often.

## Highlights

- Define up to 36 keys. Alt+ A through Alt+ Z and Alt+ 0 through Alt+ 9.
- Define each new keystroke series as specifically as you like with the variable length key definition.
- Create your own online help messages for each keystroke.
- End any keystroke sequence quickly by pressing Ctrl+ Break.

Whether you need to issue a large number of DOS commands, work with standardized blocks of text, or do any similar repetitive task, Short Hand can reduce the keystrokes. In addition it can wait from a tenth of a second to a half hour between keystrokes, depending on the application.

**Environment:** PC,XT, PPC, AT, 3270-PC with 128k, one drive and 2, 2.1, 3, 3.1

## Sign-Master™ 6187183 \$245

Sign-Master is designed to create professional communication and presentation material.

### Highlights

- Menus guide the user step by step from text entry to final output.
- On-screen 'help' and instructions are included.
- Accepts up to 100 lines of text.
- Table mode lets a user enter text in a table or column format quickly and easily.
- Supports output to over thirty plotters and fourteen printers.
- Allows sign preview on-screen exactly as it will appear.
- Sign-Master is compatible with any package that can export DIF™ files.
- Offers complete text control: Choose from six fonts, sixteen sizes, justification, underline, italics, and color for any character, word, or line.

It is an easy to use program for creating presentation texts such as outlines, tables, headlines, financial summaries, and other word charts. Sign-Master can be used by secretaries, middle managers, analysts, and other professionals to produce high quality communication and presentation

materials. Designed for the office worker in mind, the program requires a minimum of training yet offers great flexibility and graphic sophistication.

**Environment:** PC or XT with 192k, two drives or one plus hard disk, color CRT, matrix printer and DOS 1.1 or later

## **SlideWrite 6317034 \$225**

This program encourages the user to compose text slides on paper or for viewing on overhead transparency. The output is of presentation quality. Simple on-screen edit of graphics text is provided along with enhancement of charts with lines, arrows and boxes.

### **Highlights**

- Optionally reads print files from DisplayWrite 2 and 3 and ASCII files from DisplayWrite 3 and converts to chart format.
- Generates high resolution characters to IBM 7371, 7372, 7374 and 7375 plotters.
- Expands or shrinks text automatically.
- Converts ASCII text files from a word processor or spreadsheet program to high quality chart format.
- Provides batch capability for unattended printing of charts.

### **Environment**

- PC, XT, 3270-PC, XT/370, AT, PPC with 128k.
- One drive. Two drives and hard disk are supported.
- Graphics display with graphics adapter (the all points addressable card on the 3270-PC).
- IBM plotters (above) or matrix printer. The asynchronous communications adapter or serial/parallel card with the AT is required when using a plotter.
- DOS 1.1 up.

## **SmarTerm 100™ 6871489 \$149**

**SmarTerm 100** allows the PC to function as a DEC VT100™ VT101™ VT102™ or VT52™ terminal. It implements virtually all features of these terminals, including step-up mode, character attributes, line and character insert/delete, modification of the terminal characteristics from the host system, and full VT102 local printer support.

The full VT100 keyboard is emulated allowing use of SmarTerm 100 with all popular DEC® text editors, including EDT™. SmarTerm 100 also adds several major improvements to the VT100, such as the ability to define eight separate setup configurations, online help screens, and up to twenty 'smart softkeys' in each setup configuration.

**Environment:** Compatible with any program that can im/export ASCII files. Requires a PC or XT with 128k, one drive, Asynchronous Communications Adapter, modem and DOS 1.1 or later.

## **The StarProof Bridge 6276536 \$15**

Use WordProof to check the spelling accuracy of your WordStar files. And use the StarProof Bridge to produce accurate documents easily.

Combine the very popular WordStar® with the spellchecking and synonym finder in WordProof. The Bridge takes a WordStar document and converts it to ASCII and pipes it to WordProof. After you examine the errors and correct them in WordProof, the Bridge reverses the process—automatically.

**Environment:** PC, XT, PPC, PCjr, AT or 3270-PC with 128k, one drive, WordProof I or II, Wordstar.

## **STAT/LIBRARY™ 6187271 \$440**

This is a selection of the most frequently used statistical FORTRAN routines from the IMSL Library. It is designed as advanced statistical software for microcomputers. The IMSL Library contains over five-hundred routines and is used in over fifty countries.

The STAT/LIBRARY contains over sixty-five routines for

- Basic statistics.
- Regression analysis.
- Variance analysis.
- Time series analysis and forecasting.
- Random number generation.
- Probability distribution functions and their inverses.
- Nonparametric statistics and test for goodness of fit.

**Environment:** PC Engineering/Scientific Series. Same as MATH/LIBRARY.

## **STATLIB 1 6276501 \$150**

**A** basic set of functions for statistical analysis and linear programming. It's organized in convenient workspaces. And the overviews, examples and instructions included make it non-threatening when starting out. Each bullet item in the Highlights below represents one workspace.

### **Highlights**

- Descriptive statistics, binomial, poisson, hypergeometric probability functions
- Hypothesis testing, confidence intervals for t, f, chi-square and normal distributions
- One-way ANOVA, one-way analysis of covariance, Bartlett's test, chi-square contingency table, goodness of fit test
- General K factor analysis of variance and Scheffe's contrasts
- General linear model of regression
- Detailed description of Stat4 and 4A, expected mean squares tables, Latin squares
- Regression analysis, backwards elimination procedure
- Stepwise linear regression
- Description of Stat7 and a transformation program for any or all variables plus correlations
- Quality control sampling plans and OC curves
- Simplex dual-simplex method and parametric programming
- Linear programming in areas of games, transportation assignments

- Data analysis using the Weibull distribution
- Nonlinear estimation

STATLIB 1 provides quality control, reliability, linear and nonlinear regression. It also includes some financial analysis routines. It incorporates numerical integration of normal, t, f and chi-square distributions to eliminate the inconvenience of looking through tables.

**Environment:** PC, XT, PPC or AT with Math Co-processor, 192k, one drive, IBM APL and DOS 1.1, 2, 2.1, 3, 3.1. The APL character chip is required for monochrome CRT.

## **STATLIB 2 6276539 \$150**

A sophisticated, mainframe level set of analytical and programming functions. It complements STATLIB 1 and moves into more advanced analyses. It provides prompt solutions to linear programming problems. Each bullet item in highlights below is an APL workspace.

### **Highlights**

- Overview, random number generators for eleven distribution functions, Monte Carlo simulation
- Classification analysis, MANOVA, multiple covariance analysis
- Factor analysis
- Canonical correlation, multiple partial correlation, discriminant analysis
- Exponential smoothing using the Holt-Winters method
- Exponential smoothing using Brown's method, moving averages, seasonal indicators
- Autoregressive backwards elimination procedure
- Multivariate transfer model
- Spectral analysis
- Nonparametric statistics
- Time-series analysis

Environment is the same as STATLIB 1.

## **Storyboard 6316998 \$275**

This productivity aid encourages the user to create exciting presentations with color, special effects and graphics. It reduces many of the time consuming, costly tasks associated with other media. Pictures and 'stories' can be composed, duplicated and revised at any time. New presentations can be created using parts of existing ones. The resulting stories may be displayed on the color CRT or a TV/composite monitor, or presented with a video projector. Black and white and color printing is supported—each with an extended range of shades or colors. Storyboard doesn't require programming literacy or artistic skill. However, the artistically inclined or talented user will find that Storyboard is a superb canvas upon which to express his creative concepts.

### **Picture Taker**

- Captures images of CRT screens that have been written by DOS programs.
- Captures text and CRT images (illustrations).
- Co-resides in memory with other programs.

Picture Taker makes it easy to compile a set of illustrations from many sources. They may be modified optionally, and resequenced by Picture Maker.

The content of CRT screens written by most DOS application programs can be saved on disk. Formats can be monochrome, forty or eighty-column color, text mode, medium and high resolution graphics modes. The program occupies only 5k of memory and co-resides with the program that creates the screen display (picture) that the user wishes to capture for input to Picture Maker, Story Editor or Story Teller.

User programs that modify the interrupt table (Print Screen 5 or DOS 21H interrupts) or program the Graphics Adapter directly, bypassing BIOS, may prevent Picture Taker from capturing screens.

### **Picture Maker**

- Creates and modifies pictures (illustrations) in medium resolution graphics mode and saves them on disk or diskette.
- Cuts and pasts to copy images from one illustration to another.
- Provides a library of symbols for cut and paste operations.
- Includes four text fonts, each in five sizes.

- Italicizes and shadows all fonts for text emphasis.
- Uses halftone patterns extensively to extend the quantity of available colors.
- Includes a composite mode to create pictures designed specifically for a composite/TV monitor.
- Allows saved pictures to be accessible to BASIC programs.
- Provides seven shades of black and white to the IBM matrix printer.
- Presents sixteen of ninety-one colors to an IBM Color printer.
- Includes 'help' screens on a color or separate monochrome CRT.

Picture Maker encourages users to create illustrations with its built-in text and figure creation functions. The user may use cut and paste and copy functions to take advantage of pictures created by Picture Maker, or captured by Picture Taker. Pieces of pictures can be cut from saved illustrations and combined with newly created text or figures to amalgamate *new* pictures. These can be saved for re-use by Picture Maker or Story Editor and Story Teller. A symbol library of predrawn items is available for cut and paste operations. All pictures created or modified by Picture Maker are in 320x200 pel graphics.

Text can be created using four fonts of five sizes each; or the user can build his own. An easy-to-use aid will italicize any text. Text can be in different colors with an option of outlining the letters in another color. Shadowing in eight directions can be performed in yet another color. Text can be positioned on the picture being created. These text options give the user infinite variety for illustrated textual presentations.

Figure (illustration) creation commands draw unique shapes, circles, rectangles and lines. These figures can use the shadow options. They can be filled with any one of four colors or with Storyboard's or user-supplied patterns. A number of halftone patterns significantly extends the color palette. The fill process encourages the trial of numerous possible fill options by pressing one key—seeing the figure filled with the next fill color or pattern option.

The 'zoom' command enlarges part of a picture to present detail. The result can be retained as a separate enlarged picture or as part of the original unenlarged picture.

A special composite mode controls and improves pictures created by Picture Maker for use with a TV/composite monitor. The user creates pictures using composite patterns that allow the display of up to sixteen simultaneous colors when shown on a composite/TV monitor. This mode can be used for pictures output to a video cassette recorder.



The print function may be specified with seven gradations from black to gray to white, for output on the IBM matrix printer. At each printing there is an optional assignment of any of the seven print patterns to all colors and patterns displayed. The seven shades give a varied effect with monochrome printing.

Sixteen colors from ninety-one can be selected for the IBM Color printer. The ability to double the number of printable colors, from eight to sixteen, is achieved by a software color mixing technique. The display-color to print-color selection process is the same as that for monochrome printing except that the choices are sixteen assignments from a possible ninety-one.

### **Story Editor**

- Creates, copies or modifies stories interactively.
- Evaluates and modifies stories with edit functions.
- Rotates names and functions and parameter values.
- Includes full and partial picture displays.
- Presents many special effects with partial displays.
- Includes ten picture-to-picture dissolve techniques.
- Includes online help.
- Permits variable timing by picture to control presentation pace and desired audience impact.

Story Editor is used to organize pictures into presentation sequence and to display the pictures using varied special effects. Sophisticated dissolve and display techniques are available to make transitions from picture to picture or to make partial transitions within pictures. There are ten dissolve techniques; each has options that present the user with over fifty effects when they are combined with varying picture change speeds.

The user can add run-time color changes that allow the original picture or portion of a picture to change colors once or continually through a spectrum of color. The user controls the interval between the appearance of a picture and the pause before the next picture. The range of .1 seconds to five minutes allows the user to select time on a picture-by-picture basis or to give a continual, unattended showing. The interval can be suspended by pressing a single key.

Complete pictures or partial pictures may be manipulated and displayed in any sequence. The editing process is interactive, allowing the user to make changes while reviewing the story. Subroutines and loops can be included in presentations. Stories can be tailored to use menus and to pause or loop, awaiting a keyed entry or the entry of a given word. Labels for presentation-time branching are supported.

## Story Teller

- Provides runtime flexibility to start or stop at any point; branch to a keyed label; branch on any key or on specific value entered.
- Branches on keyed values to present detailed backup pictures on demand.
- Permits backup and return to present sequential position.
- Permits customized presentation menus.
- Implements a continually running (looping) show.
- Yields unlimited length presentations by show chaining.
- Supports composite video monitor or TV with expanded colors.
- Minimizes presentation module space with standalone run program.

Story Teller presents the stories created by the Story Editor. This standalone module can be on the same diskette as the story and its pictures.

Runtime branching and pauses are available. Presenter menu options, labels to branch to predetermined places in the story (e.g. to present details of the subject) an certain keys to achieve runtime flexibility built into the the story by the Story Editor are used by the Story Teller.

## Environment

- PC, PCjr, XT, AT, XT/370, PPC, 3270-PC with 5272 Color Display and graphics extension. (Picture Taker does not run with the 3270-PC Control Program.)
- Picture Taker requires 5k and DOS 2.0, 2.1 or 3.0 up.
- Picture Maker requires 256k (PCjr requires 384k.) and DOS 2.0, 2.1. With DOS 3.0, next memory increment above 256k.
- Story Editor requires 256k and DOS 2.0, 2.1 or 3.0 up. PCjr requires 384k.
- Story Teller requires 256k and DOS 2.0, 2.1 or 3.0 up.
- All modules run on the XT/370 with 640k.
- One color CRT and one eighty-column monitor are required. An RGB color monitor satisfies the requirement for color and eighty columns. A

composite monitor can be used as the color monitor if a monochrome monitor also is available.

- Story Teller requires a color CRT only. Eighty-column CRT is not a requirement. It can be run with a composite monitor to TV attached through an RF adapter.
- An IBM Color Graphics Adapter or Enhanced Graphics Adapter, or equivalent is required. The Enhanced Graphics Adapter is supported in Color Graphics compatibility mode only. Composite monitors are not supported.
- Matrix printer and IBM Color Printer are supported.

## **Structured Assembler Translator 6276550 \$35**

Write, maintain and debug assembler better and faster with these structured techniques. It provides many of the structured facilities offered by high level languages, yet retains control over the PC as only assembler can. Your assembler program will be more readable and simpler to maintain and upgrade. It uses topdown programming technique which reduces logic errors, and eliminates the need for user labels in the executable code stream.

### **Highlights**

- Use conditional statements such as if, else, elseif, while and repeat to a maximum nesting depth of 256.
- IMBED external files that are to be included and need to be translated to the preprocessor.
- Define synonyms for frequently used phrases, e.g. code B.Sbar to stand for BYTE PTR (Sbar).
- Define your own operators, e.g. code AL = BSbar to generate MOV AL, BYTE PTR (Sbar).
- Choose or switch between signed and unsigned comparisons.
- Use conversational mode to get acquainted with statement translation.

Programs using the Translator continue to use standard assembler code to execute but will not contain explicit compare and jump instructions. Execution flow is controlled by high level statements that provide the basics for structured programming. A preprocessor reads input source file and writes a temporary file containing the translated version for it to the Macro Assembler.

**Environment:** PC, XT, PPC, PCjr, AT or 3270-PC with 128k, one drive, IBM Macro Assembler and DOS 2, 2.1, 3, 3.1

## **Structured BASIC Facility 6276618 \$55**

A new generation programming tool. Because BASIC is easy and friendly to learn many professionals (non-programmers) pick it up and learn 'just enough to get by.' Incredibly, this often is sufficient for nearly all their professional needs. Many professionals prefer to become intellectually self-contained by using less staff support, steno and secretarial assistance, clerical assistance and DP programming. With this tool BASIC fans of all stripes can simplify and improve their programs by applying structured programming standards.

### **Highlights**

- Define loadable editor commands.
- Use the Enhanced graphics Adapter for multiple character fonts and ten to fifty-eight line editing.
- Format documents and assembler, Pascal, C and BASIC source files.

The Editor guides you during the original draft composition of your program. Then you recall it for edit and update or correction. Line and full screen editing techniques are employed.

The Preprocessor converts your Structured BASIC source file for the Interpreter and the Compiler.

The Generator converts old source into a Structured BASIC source file.

**Environment:** PC, XT, PPC, PCjr or AT with 128k, one drive and DOS 2, 2.1, 3 or 3.1

## **SuperC 6276575 \$20**

A new and different way to compare files. Compare files or groups of files and view the differences at the file, line, word or byte level. Menus help you compare any type of file.

### **Highlights**

- Show text differences in document files.
- Generate output for application programs.
- Compare ASCII and non-ASCII files.
- Use unlimited file sizes.
- Audit files for changes.
- Create change activity reports.

Select the type of output and details concerning insertions from the new file, deletions from the old file and reformatted lines (space differences). SuperC features speed, function and ease of use. It recognizes matching and missing data using a unique method developed for a mainframe. It detects line, word or byte matches and provides reports. It can limit comparisons based on user options such as column, offset or even data fields. Any file that can be processed by DOS can be compared. It may be activated by menu or a BAT file. The help screens are extensive and will serve as training wheels for the inexperienced user.

**Environment:** PC, XT, PPC, PCjr, AT or 3270-PC with 128k, one drive, matrix printer (a supported option) and DOS 2, 2.1, 3, 3.1. DOS 3 or 3.1 on a PCjr requires 256k.

## **SuperCalc3® 6871375 \$395**

**SuperCalc3** is designed to combine information management, spreadsheet analysis, and graphics into one program.

### **Highlights**

- It works without a graphics card.
- Eight fonts available per graph.
- 21 different colors can be used per graph.
- Can position graph by page quadrant.
- Legends can be placed on the right side of the page.
- Graph types are bar, stack bar, line, X-Y, pie, exploded pie, area, and hi-lo.
- Advanced replication/copy functions provide absolute and relative references built into the command structure.
- Copies all records which meet specified criteria.
- Compatible with any product which can export DIF files.
- Supports two CRTs—color and mono.

SuperCalc3 is an easy-to-use financial tool. It is a spreadsheet for managers whose responsibilities include financial and numerical analysis. It utilizes modeling techniques to solve forecasting problems. It produces presentation-quality graphics which enhance the presentation of numerical output.

SuperCalc3 graphics are high-resolution, integrated graphics. Using eight font types and up to 21 colors, as many as four charts can be printed on the same page.

SuperCalc3 has new financial functions such as internal rate of return, payment, future, and present values.

**Environment:** Requires a PC or XT with 96k, two drives or one plus a hard disk, matrix printer and DOS 1.1 or later.

## **Symphony™ 6187187 \$695**

Symphony combines word processing, spreadsheet, communications, data base and graphics into one system.

### **Highlights**

#### Word Processing

- Windows.
- Mail Merge.
- Electronic mail via communications.
- Reports can combine text with spreadsheet tables.
- Stores specific formats.
- Auto text adjustment.

#### Spreadsheet

- 8,192 rows by 256 columns.
- Password protection and hidden cells.
- Range transpose command.
- Individual cell formats.
- Move or copy any cell range; insert or delete columns or rows.
- Various currency, date and time formats, standard and international.
- Various numeric formats including percentage and scientific.

#### Communications

- Auto-dial, auto answer and logon to remote data bases
- Suspend session, analyze data and immediately return to communications
- Data capture directly onto a spreadsheet or document in usable form

#### Data Base

- Forms oriented data entry, edit and query.
- Forms oriented report generator.
- Data entry validation, including lookup tables.
- Query allowing wild-card parameters and compound search criteria using up to 32 fields.
- Over 8,000 records, over 250 fields (machine memory dependent).

## Graphics

- Eight graph types: Shaded and exploded pie charts, area charts, open-high-low-close charts, x-y graphs, line, bar and stacked bar charts.
- Zoom graphs temporarily from miniature to full-screen size.
- Windows displaying multiple graphs on screen simultaneously.
- Presentation quality output on a variety of printers and plotters.

Symphony is a complete system for the office, large corporations or small businesses. It is designed to meet the demand for increased office productivity. What's more, Symphony can expand and grow to suit your needs.

It has the speed and power of a sophisticated word processing system: Copy, move, search, replace, wordwrap, justify and more. Symphony includes features like multiple format lines and speed typing of common words and phrases. Because word processing is part of Symphony, it can be linked to other functions to create mail merge, electronic mail, or reports that combine text and spreadsheet data.

Symphony offers an advanced spreadsheet, with 8,192 rows by 256 columns. This size is versatile enough to handle complex jobs. With Symphony, you can look at information in a variety of ways, test assumptions, weigh alternatives, ask what-if questions, and manipulate text and detain formulas. The system performs numerous statistical and financial functions. It includes features to delight even the most accomplished spreadsheet user.

Symphony's communications can be your link to the outside world. You can send or receive information to and from other computers. Not only does it capture information directly to the worksheet, but also can edit, sort, then send it back. Communications features auto-dialing and auto-logon with error detection. You can emulate many standard computer terminals and store commonly used setups for fast recall.

The data base is extensive but an easy to use electronic filing cabinet that puts 8,000 records at your fingertips. Enter information and it will create an on-screen form automatically. Simply fill in the blanks to create a data base. Call up information for immediate spreadsheet analysis. Read files from other programs. Edit, delete or sort information; then, generate reports in your specified format. choose. Symphony builds multiple data bases and can create many entry, query and report forms per data base.

Trends or patterns that may not be apparent in raw numbers on a worksheet emerge boldly and clearly in graphics. You can create a graph using spreadsheet information. Then, change the information and display a revised graph with a single keystroke. Choose from bar chart,

open-high-low-close chart, pie chart, exploded pie chart, area chart, line graph or x-y graph. With an appropriate graphics printer, you can also print presentation quality graphics.

One of Symphony's productivity features is window management. This feature allows you to display spreadsheets, graphics, word processing documents, data base information and communications on the screen, all at the same time. You determine the size, shape and number of windows and their position on the screen. Shuffle windows like papers on a desk. Zoom in to make a window larger. Zoom out to bring it back to size. Make a change in one window and watch as corresponding numbers change and graphs are redrawn in other windows instantly. There is no need to cut and paste to move information between windows. With Symphony, changes in the spreadsheet, for example, instantly are reflected in the data base

Symphony gives you the ability to program. Use it to create custom applications. It allows you to combine any number of commands into one keystroke, to save time when typing common words and phrases over and over. Also, a learn model makes it easy for first time users to take advantage of Symphony command language.

**Environment:** Requires a PC, XT or PPC with 320k, one drive, matrix printer and DOS2 or later. Symphony accepts files from 1-2-3™, dBASE II™, and VisiCalc®. It imports and exports DIF files and ASCII text.

## **Symphony Exchange Kit 6187186 \$200**

The Symphony Exchange Kit is an offer for the exchange of 1-2-3™. The kit consists of a special mailing box and complete instructions. Symphony is a complete system for the office in large corporations or small businesses. It is designed to meet the demand for increased office productivity. What's more, Symphony can expand to suit your needs.

1-2-3 owners will send the 1-2-3 system or back-up diskette and entire 1-2-3 manual directly to Lotus in the special mailing box. Lotus will ship the Symphony package directly to the customer.

## **Tax Decisions 6871434 \$229**

This program is designed to analyze complex individual income strategies and alternatives.



## Highlights

- Operator interface is by menus.
- Automatically adjusts totals after changes are made.
- Tax rules update service available.
- Five strategies can be analyzed concurrently.

Tax Decisions is a tax strategy and planning tool to reduce Federal income tax liability. It helps the professional tax planner prepare alternate strategies. It allows the tax planner to maintain up to five plans per client. Tax Decisions screens contain line items from the familiar Federal Income Tax Form 1040 and supporting schedules.

**Environment:** Requires a PC or XT with 128k, two drives or one plus a hard disk, matrix printer and DOS 1.1 or later. Supports hard disk, Graphics Printer and color CRT.

## TCS Client Ledger System™ 6187208 \$1,695

The system is a comprehensive, multi-company general ledger and associated support tools and aids. It is intended for sophisticated accounting practices.

## Highlights

- Fully integrated passive payroll sub-system including payroll journal, 941 Worksheet, W-2's and 1099's, and more
- Unlimited user-defined profit and loss statement formats
- Ledger consolidation
- Flexible chart of accounts
- Work-in-process sub-ledger
- Both budget and prior year comparisons
- Three levels of departmental summaries
- Client transmittal letters
- Batch processing of reports
- Interactive, easy to use programs
- ACRS depreciation Schedule
- Amortization schedules complete with rule of 78
- Detail trial balance with optional annual detail and trial balance worksheet
- Cash flow statements and statements of changes in financial position

The TCS Client Ledger System is a comprehensive multi-company general ledger available for public accounting firms and companies requiring sophisticated accounting capabilities. The system allows CPA's and other

professionals to maintain accounting information for multiple clients and produce more than fifty financial reports.

CLS' extensive reporting facility contains a number of features, including a flexible chart of accounts, a dually integrated passive payroll, ledger consolidation of up to ten companies, the ACRS Depreciation Schedule, transmittal letters, and batch processing of reports. CLS may be used either as an independent ledger system, or in conjunction with Total Accounting System modules such as Receivables and Payables.

CLS offers flexibility, from tailoring client's files and determining report structures, to groupings on financial statements. CLS also allows up to 99 departments, plus a work-in-progress subledger for cost breakdowns and multiple services.

CLS produces numerous reports, including a statement of changes in financial position and cash flow statements. Batch processing for each client is another valuable feature that allows multiple copies of up to 24 different reports for any ledgers on disk. CLS will maintain not only fiscal period balances, but also calendar period balances for payroll tax reporting. CLS Compiled is compatible with the following TCS packages: Receivables, Payables, Payroll, and Inventory Version 3.

**Environment:** PC or XT with 96k, two drives or one plus hard disk, matrix printer (recommend 132 positions) and DOS 1.1 or later.

## **PC Telephone Access to Office Systems**

6467039 \$250

This program enables you to have application data read to you from any touch-tone telephone. Using the text-to-speech capability of the IBM PC Voice Communications Option, this program allows the user 'to look at' application data without having a computer terminal. Telephone Access provides default profiles for accessing PROFS, Personal Services/36 or 38.

Documentation includes instructions for modifying and creating profiles for text-to-speech access of other host applications, e.g., inventory, price lists, and account balances. The user can access an IMS, CICS, System/36 or System/38 data base by creating a profile to select the data to be read to the user over the telephone.

## Highlights

- Provides default PROFS (Release 1.1 and 2.1), PS/36 (Release 4), and PS/38 profiles
- Accesses PROFS, PS/36 or PS/38 mail and calendars from a touch-tone telephone
- Allows selection of an item to listen to all or a portion of it
- Allows repeating of an item
- Allows filing or deletion of a PROFS item after listening to it
- Allows creation of additional profiles for use with other applications
- Provides online facility for maintaining and controlling user access list
- Supports password security

## Environment

- XT or AT
- PC Voice Communications Option (6294771, feature #4771)
- PC 3278/79 Emulation Adapter (1602507, feature #2507) and PC 3270 Emulation Program, Version 2.0 (59X9951) if connecting to a System/370
- Enhanced Display Station Emulation Adapter (6403690, feature #2879) and Enhanced 5250 Emulation Program (6403675) if connecting to a System/36 or 38
- PC DOS, Version 2.1 (6024120) or later

Use the Order card in back to request Availability Notice G320-9154.

## **TK!Solver® 6871314 \$299**

**TK! Solver** is designed to solve equations for analysis, design, and planning, convert units of measurement, plot graphs and construct tables. TK! Solver is a tool for professionals who commonly use equations for analysis, design, and planning. With just a few simple TK! Solver commands the user can solve equations, convert units of measurement, plot graphs, and make tables. This allows the user to spend more time creatively exploring alternative ideas and solutions.

**Environment:** PC or XT with 128k, two drives or one plus hard disk, matrix printer and DOS 1.1 or later.

## **Transporter™ 6871367 \$295**

This program provides automatic unattended file transfer.

### **Highlights**

- Allows user to schedule data calls.
- Can save long distance charges.
- Includes Crosstalk XVI in program.
- Compatible with Microstuf products.

Transporter is an automated data communications program. Unlike most other communications programs, Transporter allows the user to exchange information with other computers without anyone being present at either end of the transfer. This allows the user to set up the computer to call other computers overnight when phone rates are at their lowest, and exchange files. The files themselves may be of any type or size. For example, the user can exchange BASIC programs, VisiCalc® models, accounting data, COM and EXE files.

**Environment:** Requires 128k, two drives, Asynchronous Communications Adapter, modem and DOS 1.1 or later.

## **TSO Host Server 5798-DTL \$2,420**

**TSOSERV** provides MVS and XA services to an XT/370 or AT/370 operating under VM/PC. It is a command processor that is functionally equivalent to VM/PC Remote Services; that is, the same commands that access files of a remote VM can access remote MVS data sets. TSO commands can be issued from the local CMS session for remote MVS execution. No changes to VM/PC are required.

### **Highlights**

- Read and write MVS sequential and partitioned data sets from a CMS session at the XT/370.
- Execute TSO commands from a VM/PC local session.
- Spool local CMS files to a remote MVS for processing or printing.

The XT/370 operates in one of these modes:

- Remote or local 3277, 3278 or 3279 session

- Remote 3101 session
- S/370 processor control

For additional information on the functions available to users of MVS only, see the Programming Announcement for VM/PC of October 18, 1983. Refer to the VM/PC documentation for a description of the above session modes when the XT/370 is attached to a remote VM. Following is a discussion of capabilities unique to the MVS host environment.

VM/PC with TSOSERV installed at the host MVS furnishes MVS resources to the XT/370. They are available to the local VM/PC environment and appear as local resources to the user. TSOSERV consists of a TSO command processor plus two additional CMS commands that run on the XT/370 and a utility to convert an MVS partitioned data set to the format of a CMS MACLIB. The command processor has three parts:

- A communications manager provides an interface to TSO/VTAM for communication with the VM/PC program that resides in the XT/370.
- A router receives the service requests from the XT/370 and calls one of several TSO function servers.
- TSO function servers perform the equivalent TSO functions requested by the local VM/PC session.

The XT/370 is connected to the host via a coaxial cable to a 3274 type B Adapter in an SNA network.

**Remote 3277 emulation.** The session can run concurrently with a local CMS session. For example, while editing a file in the local session the user may initiate a compile in a remote session.

**Remote data sets.** When the XT/370, running under VM/PC, is executing a local session, remote MVS data sets can be utilized by local applications as if they were CMS files.

**Remote printers.** Local print output can be spooled to the remote MVS when TSOSERV is running in the remote TSO session in MVS. In addition, it is possible to tag print files to be sent to other printers in the network.

TSOSERV provides the CMS command DSNMAP which provides for the mapping of CMS file names to MVS data set names. Another CMS command is TSO, which allows the user to issue TSO commands while in the VM/PC local session, for execution by MVS. A TSO utility is provided to convert an MVS partitioned data set to the format of a CMS MACLIB. This enables local CMS compilers or assemblers to utilize MVS macro libraries. MVS executable load modules and executable CMS modules do not have the same format. Therefore, MVS load mods may not be executed as-is on the XT/370.

**Environment:** VM/PC is required on the AT/370 or XT/370. A current release of MVS or XA is required on the host. With TSO/E Release 2, TSO command output produced by the PUTLINE service will be displayed on the PC. ACF/VTAM 1.2 up is required by MVS; version 2 is required by XA.

Use the Order card in back to request (nominal charge):

TSO Host Server for the XT/370 User's Guide SC28-1390  
Program Description and Operations SC28-1391

## **TURBO PASCAL™ 6187326 \$70**

This program allows you to edit, compile and debug; all in one sequence. Its interactive compiler takes you to errors, lets you correct them, then continues compiling. It is available with two advanced options: 8087 math co-processor support for quick calculation and Binary Coded Decimals to eliminate rounding-off errors. Richness of function and speed have earned this program its popularity and deserved reputation.

### **Highlights**

- Compiles over 100 lines of code per second.
- Integrated programming environment.
- Full-screen editor.
- One-step Native Code Compiler.
- Automatic error detection and location.
- Supports I/O redirection (DOS only).
- Supports color and sound.
- Supports full DOS path structures.

**Environment:** PC, XT, AT, PCjr with 128k and DOS 2+ (3+ for AT; 2.1 for PCjr).

## **Tutorial Set 6871330 \$94**

This program is designed to teach DOS commands and applications and is an interactive tutorial for those who have little or no computer experience. The Tutorial Set is a combination of Professor DOS and The Instructor.

## Highlights

- Flexible Training; you choose how much or how little you want to learn.
- Self-paced Training; you can control how fast or how slowly Professor DOS shows you new material.
- Interactive training; Professor DOS makes full use of the PC capabilities.
- Computer familiarity is build in logical step sequences.
- Keyboard skills are taught, before you acquire bad habits.
- Application activities are presented.
- Editing operations are explained

**Environment:** Requires a PC, XT, AT or PCjr with 96k, one drive and DOS 1.1, 2.0, 2.1, 3.0. Supports hard disk.

## Type Faces® 6871333 \$95

The purpose of the program is to increase the impact of business presentations, to create professional quality invitations and letterhead stationery; to typeset announcements or poetry; and to create attractive signs.

### Highlights

- The program formats and prints in fifteen fonts.
- These fonts range from highly legible Roman to the antique Gothics, and from simple to flowery script.
- Documentation is comprehensive.
- Type Faces can be used in business for such things as report titles, vugraphs, and graphic art captions and slide presentations. It also can be used for personal invitations, announcements, individualized greeting cards and letterhead stationary.
- An audio cassette enhances the learning process.
- Output from your dot matrix printer can be reduced for letter quality text or copied onto acetate and shown on an overhead projector for distinctive presentations.
- Over 100 symbols are available to satisfy the needs of complex print jobs.

- Compatible with any word processor which produces standard text files.

The Type Faces program is an extensive function, easy to use printing tool which increases the capability of the matrix printer. It provides typesetting capabilities to enhance business presentations and an inexpensive method of producing elegant reports or flyers.

**Environment:** PC, XT or 3270-PC with 64k, two drives or one plus hard disk and DOS 1.1 or later.

## **T3™ 6187281 \$595**

The T3 Scientific Word Processing System was designed by mathematicians for mathematicians, scientists and their support staffs. It allows the use and definition of many fonts. It accepts superscripts, subscripts and complex expressions in a straightforward manner.

Subscripts and superscripts appear on the CRT in correct halfline positions. Up to twelve levels of subscripts and superscripts allow for easy typing of complex expressions and matrices as indivisible units. For example, when a tab is inserted before a matrix, the entire matrix moves as a unit.

There is no limit to the number of fonts allowed in a system. And up to eight fonts of 128 characters can be used in a document. Fonts can be added and existing fonts can be modified using the build-in font editors.

To type using these fonts, the user builds objects called keyboards. They are built by assigning any character from any font to the keys of the keyboard. Keyboards supplied with T3 include standard math, italics, script and chemistry. Sequences of keystrokes can be saved and recalled to simplify entry of complex expressions such as integrals, summation signs and benzene rings.

The operator selects functions and initiates them by menus and forms. Cursor movement and selection functions are fairly powerful and not difficult.

**Environment:** PC, XT, XT/370, 3270-PC, AT and PC Engineering/Scientific Series The IBM Graphics (matrix) and Epson FX-80 printers are supported. Support for other printers is available at extra cost from Triad Computing, Inc.



## Utilities

Ten handy DOS tools in three affordable toolboxes.

**File Compress and Expand** saves valuable disk or diskette space. You can compress files in place or create compressed backups. When you want to use a file it's easy to expand it to normal size.

**DOS Command Retriever** allows you to display, retrieve, edit and revise DOS commands. You even can assign abbreviations. You edit long commands conveniently by using a cursor key; you don't have to worry about erasing characters.

The two programs above are ordered as Utilities I 6276517 \$20. The following three programs are ordered as Utilities II 6276520 \$20. The last five are ordered as Utilities III 6276574 \$20.

**File Locator** locates and displays files by dates of entry, paths, or size. Use it to prepare data for piping to other programs. You can display a trace record of subdirectories searched. The output of the Locator can be displayed or printed.

**Backup and Unmark** simplifies file maint by finding and copying files that have not been backed up. Unmark provides the flexibility for resetting file markers around designated file portions so they are not included in backup. It operates on floppy or hard files in standard DOS format.

**DOS Tree Display** presents a graphic CRT map of your directory and subdirectory structure. It simplifies the search for subdirectories by showing each as they occur alphabetically within a directory level. You view from the root or from any point in the tree. Operates on disk or diskette.

**Sort** ascending or descending; combine different options with as many as ten sort keys.

- Reorder scrambled files, up to 1k records in seconds.
- Sort large files; if it fits in RAM you can sort it.
- Sort fields according to character, hex or ASCII values.
- Save sort output in the input file or a new one.
- Use as a DOS filter to sort directory listings.
- Sort with special character values on or off.
- Generate an index file to use as input to other programs.

**Loadram and Saveram** No more lost files. This takes the worry out of file transfers and reduce DOS startup time. Combine multiple files into a single file for easy transfer between PCs or for archive. Prepare data for communications with PCs or hosts.

**Compare** stands up to even the most mismatched files and flags the discrepancies. It is more powerful than the compare option of DOS. Differences are displayed in hex and ASCII. Compare files of different sizes. Inspect for altered, damaged, added or deleted data.

**Errorlog** can alert you to perform preventive maintenance on diskette drives. Use regularly to record temporary (soft) errors and identify potential drive failures.

**Patch** updates COM and EXE files. Experienced programmers can create patch files. Novices can apply fixes and updates. The task of correcting COM and EXE files with patch files provided by developers, is simplified. The program will check for similar data. You can use text files for input.

**Environment:** PC, XT, PPC, PCjr, AT or 3270-PC with 128k, one drive and DOS 2, 2.1, 3, 3.1

## **VCN ExecuVision™ 6871483 \$395**

**VCN ExecuVision** gives the user a tool to produce professional images with cut and paste options, sketching and text capabilities, and special effects such as animation. It is capable of sorting, dumping, and automatically presenting a series of slides.

### **Highlights**

- Operation is menu-driven.
- Full color user manual is included.
- Tutorial demonstration disk is included.
- Design capabilities include: sixty-four color schemes and ten type styles.
- Animation and motion techniques are provided.
- Automatic runtime options are selectable.
- Compatible with VisiTrend™ and VisiPlot™.
- Automatic pie, bar, and line graphs with special PLOT function are provided.
- Electronic cut and paste facility allows a user to move, combine, or erase any object or text.

**VCN ExecuVision** takes research, facts, and analyses and transforms them into graphic images for use in a multi-media presentation. There are a great variety of pictures, graphs, and charts that can be created, displayed and updated quickly.

Add-on software libraries of hundreds of pre-rendered images are available. These libraries include The Professional Series, The Business

and Industry Series, Maps, International Symbols, Initials, Backgrounds, and Graphic Borders.

**Environment:** PC with 128k, two drives, color CRT and DOS 1.1 or later

## **PC/Videotex 6410985 \$275**

This program permits the PC to function as a videotex terminal. After communication linkage is established to a videotex computer, e.g. Videotex/370, the user may view the frames (screens) on a color monitor, and save selected ones for review. The user also may key data or text for transmission (reply) to the host. Since PC/Videotex is a two-way (dialog) communications system, the user may enter data to the host or other videotex terminal.

### **Highlights**

- The essence of the program is access to host videotex data bases.
- Billboarding will display a preselected series of frames (analogous to color slides) with a specified viewing interval.
- Disk input mode is provided as an alternative to the normal communications link.
- Connection to a variety of networks and services is supported.
- Commands are entered using function keys or typed.
- Local data base is supported on PC, XT and AT but not on the PCjr. The user can display frames from his own PC's data base. He can select frames from a menu. This function simulates a connection to a remote host, so a communication link is not required for a local session.
- PC/Videotex is user-friendly and not technical. The inexperienced or casual user is guided through the steps needed to retrieve the desired information.
- The North American Presentation Level Protocol Syntax (NAPLPS) is supported. This videotex protocol is a partial implementation of the Service Reference Model of the NAPLPS standard.
- The PCjr version of this program is priced at \$239; order 6316967.

## Potential Benefits

- PC users can save the cost of a separate videotex terminal. PC/Videotex is an inexpensive upgrade to the user's PC.
- The user can capture frames received from the host and replay them; nearly impossible with an unintelligent terminal.
- Extended Support is available for an annual subscription fee; details are enclosed with the program.
- An upgrade from 1.0 to 1.1 is available: Extended Support subscribers specify 6265471 \$30; non-subscribers specify 6265472 \$55.

## Environment

- 128k plus DOS 2 or later on PC, XT or PCjr Model 67; DOS 3 or later on AT
- One double-sided drive
- Color monitor or TV
- Asynchronous Communications Adapter—on PC, XT or AT
- 1200 baud modem (equivalent to SMARTMODEM® or manual dial modem)
- For the PC, XT or AT: an IBM Enhanced Graphics Adapter card with sixteen colors at 320 x 200 pel, compatible with COLORPLUS™, or sixteen simultaneous colors out of 512 at 320 x 200 pel compatible with REALCOLOR™

## PC/Videotex Graphic Artist Facility 6317012 \$2,500

**VTXGRAF** provides a facility to create and edit videotex frames of text and graphics in the North American Presentation Level Protocol Syntax (NAPLPS). VTXGRAF can store, access and manage frames stored in local libraries on the PC. VTXGRAF provides a friendly interface to the corequisite product, PC/Videotex, for frame transmission to and capture from an IBM host videotex delivery system, like Videotex/370.

## Highlights

- Provides easy-to-use menu and help panels to access all product functions.
- Provides fast path access to all functions.

- Allows a frame editor to create videotex frames of text and graphics. These frames can originate on VTXGRAF, be copied from diskette, or be transmitted/captured by PC/Videotex in either 7 or 8-bit NAPLPS.
- Provides local frame library management services and protection to maintain data integrity for single and multiple users.
- Offers library management operations and a utility that enables users to create, backup to diskette, restore from diskette, and delete their own frame libraries.
- Offers an easy-to-use utility program that enables a systems administrator to remove VTXGRAF and all its protected files from the system for reinstallation and to reconfigure hardware.
- Provides access to the DOS editor or optional full-screen text editor to create routing data for use with PC/Videotex local data bases.
- Provides a friendly interface to PC/Videotex for frame transmission to and capture from an IBM host videotex delivery system, like Videotex/370.
- NAPLPS is supported. This videotex protocol is a partial implementation of the Service Reference Model of the NAPLPS standard.

### **Environment**

- 512k plus DOS 2.1 or later on PC and XT; DOS 3 or later on AT
- 10MB fixed disk storage on PC and XT; 20MB on AT
- Color monitor
- For the PC, XT or AT: an IBM Enhanced Graphics Adapter card with sixteen colors at 320 x 200 pel, compatible with COLORPLUS™, or sixteen simultaneous colors out of 512 at 320 x 200 pel compatible with REALCOLOR™
- ISPF/PC EZ-VU Runtime Facility
- PC/Videotex Version B1.10
- Asynchronous Communications Adapter—on PC, XT or AT (Optional)
- 1200 baud modem (equivalent to SMARTMODEM® or manual dial modem (Optional)
- IBM 5083 Model 2 Graphics Tablet and Stylus; PC Attach Cable and Power Supply or, for AT, Serial Adapter Cable (Optional)

Order the Availability Notice G320-9394 on the Order card in back.

## **VTERM™ 6871491 \$125**

**VTERM** will emulate nearly all the functions of a Digital Equipment Corporation VT100™ or VT52™ terminal. If a user already has a DEC® system, with software that depends upon a VT100 or a VT52, he can use his PC in place of those terminals. Compatible with any program that im/exports ASCII files. Requires a PC or XT with 48k, one drive, matrix printer, Asynchronous Communications Adapter, modem and DOS 1.1 or later.

## **WESTLAW® Communications Session Mgr**

6428162 \$350

The program turns a PC with an Asynchronous Communications Adapter into a terminal that can communicate with West Publishing Company's computer-assisted research service (WESTLAW). The program is designed to allow lawyers and non-technical personnel in law firms, corporate law departments, courts, government agencies, law schools and organizations engaged in legal research interactive access to the various data bases found in WESTLAW.

Legal research is a time consuming and complex task. In order to remain competitive, law firms, of necessity, must make increasing use of electronic legal research services such as WESTLAW. Unlike terminals that can only be used as communicating devices, the PC under DOS also may be used for a variety of computer applications.

Place your order on the Order card in back. Or phone it to IBM Direct - PC Order Department, 1-800-IBM-2468.

## **WORD ATTACK!® 6871442 \$49**

This program is designed to teach students new words, their meanings and their usages in an interesting and exciting way.

## Highlights

- ATTACK learning activities
- High resolution graphics
- Animation color
- Score keeping
- Printing capabilities
- Parents and teachers may enter additional words for use with WORD

WORD ATTACK is a four-part vocabulary building program designed to make learning new words fun. The word learning activities on the diskette are based upon numerous studies conducted by educational specialists in classrooms. WORD ATTACK's four educationally well designed and graphically appealing exercises (including a fast-action arcade game) access extensive data files of 675 words. The words and sentences illustrating usage are presented on nine different levels for students, ages eight through adult. WORD ATTACK'S editor makes it easy to enter your own word lists. Basically, WORD ATTACK helps to improve your vocabulary, reading, and spelling skills.

**Environment:** PC, XT, 3270-PC, PCjr, or XT/370 with 96k, one drive and DOS 1.1 up. Joystick is supported.

## **WordMARC™ 6187276 \$495**

This is a word processor designed for engineers, scientists and their support staffs. The menus, prompts, keystroke commands and self-paced tutorial are structured so that a novice can be productive in a few hours.

A standard scientific, math character set of ninety-two Greek and math symbols may be displayed. There is support for up to thirteen levels of super and subscripts. Alternate characters are accessed by a single function key. A template maps the alternate character onto the alphabetical keyboard. Users may design and edit alternate characters which may be printed. Equation editing features include the ability to center, move, copy and erase equations.

Spellcheck and mail-merge functions are built-in. A document privacy passwording function will encrypt so that only a user with a password may look into encrypted files. A document recovery feature protects file contents in the event of abnormal termination of the system.

Formatting includes

- Unlimited number of format changes per document.
- Automatic and interactive pagination.

- Hyphenation.
- Column alignment.
- Unlimited number of headers and footers.

ASCII files from other programs may be processed without file conversion. The user may exit temporarily to DOS and execute programs or DOS functions without leaving the edit session. Background support permits document printing and other concurrent functions.

**Environment:** PC, XT, AT and PC Engineering/Scientific Series. The PC and XT require two drives or one plus hard disk, 256k and matrix printer. PC requires DOS 1.1 up; XT requires 2.0 up. AT requires 320k, two drives or one plus hard disk, matrix printer and DOS 3 up. All require the Math Co-processor.

## **WordPerfect™ 6871456 \$495**

This program is designed for use as a high-function word processor. Although relatively easy to learn and use, its reputation has been built upon enormously rich function for the power user. This is a sophisticated program with an outstanding reputation for quality.

### **Highlights**

- Built-in help feature
- Optional embedded page numbers
- Format changes allowed at any place in document
- Print requests maintained in queue
- Print function available while editing
- Calculations
- Merge allows use of multiple files
- Sort function
- Newspaper text columns
- Spelling checker
- Edit function available for two documents at the same time
- User-defined key mapping and macros
- Center page top to bottom
- Flush right margin
- Footnotes
- Search forward and reverse
- Optional search and replace with or without confirm
- Range move or delete
- Optional key mapping

WordPerfect is a word processor designed for use in several applications. Its use of function keys allows you to create, edit, and print documents. You



may change margins, page length and spacing at any time. You may embed print commands in the text to utilize functions that WordPerfect doesn't have. Special features such as footnotes, headers, math, text columns, dual document editing, dictionary, sort, and merge are designed to be simple-to-use and automatic. The file management allows for quick renaming or deletion of files. WordPerfect can access hard file directories or subdirectories and display files in alphabetical order. The macro function allows you to define keys or name macros to perform a variety of functions. Use the **advance** function to print up or down one-half line, or to advance the printer to a certain line.

WordPerfect includes merge and spelling checker functions. Merge allows the data file to have an unlimited amount of records and characters per field. Also, you may access other files automatically

during merge and messages may display to prompt keyboard input. The spelling checker consists of a dictionary that you may use to check the spelling of words in a document. Or, you may use it to look up the spelling of a word by telling it the first three letters of a word, followed by a dash and optionally, other letters. When the spelling checker finds an unfamiliar word, it prompts you to either continue without changing the word, add the word to the dictionary, change the spelling of the word or look up the correct spelling as described above.

**Environment:** PC, XT, AT or 3270-PC with 128k two drives or one plus hard disk, matrix printer and DOS 1.1 up.

## **Word Proof II 6276564 \$40**

Knock out those spelling mistakes with IBM's champ. It's an editor, spelling checker and synonym dictionary in one easy to use package. If you're not a good speller let Word Proof do it for you, using its word list of over 124k words. Can't think of the right word? Word Proof has an online dictionary of synonyms to help you select the best choice. It's also a text editor. And in this newest version you have the ability to move, copy or delete copy in blocks (multiple lines).

### **Highlights**

- Use the full screen editor to compose, edit and format your documents.
- Work with ASCII files created on other word processors, e.g. DisplayWrite 1, Personal Editor, HomeWord™ and WordStar® (with StarProof Bridge).

- Use the synonym function to expand your vocabulary in composition. Synonym data is based on the American Heritage Dictionary Data Base, Roget's II, The New Thesaurus owned by Houghton Mifflin Company and used with permission.
- Create word games using the anagram feature.
- Build your own specialized word list including proper names and proper nouns.
- Ask for guidance from the onscreen directions, menu prompts and help screens.

**Environment:** PC, XT, PPC, AT or PCjr with 128k. The synonym function requires a second drive.

## **The Worlds Greatest Baseball Game™ 6276620 \$25**

Manage your own major league team. Use your PC to control your team's destiny.

### **Highlights**

- Enjoy the exciting sounds of the ballpark.
- Hear the umpire call the pitches. This requires a PCjr and its color monitor.
- You'll get the feeling of the big league from the realistic graphics on a PCjr.
- Play against the computer or another player. Or watch as the computer plays both sides.
- Set up to 676 different matchups.
- Bring in relief pitchers, pinch hitters, baserunners or new fielders at any time.

Choose from 26 teams, including World Series, All-Star and classic teams such as the 1927 Yankees. Use baseball strategy as you play any team against another. It is even possible to match a team against itself. Offensively you can bunt, steal, hit and run, swing or take. Defensively you can position infielders and select the next pitch to be thrown.

**Environment:** PC, XT, PCjr or Portable with 128k with color and one drive. Use either keyboard and joystick or two joysticks for a two player game.

## **1-2-3™ 6871325 \$495**

The 1-2-3 program is designed to combine information management, spreadsheet analysis, and graphics into one productive program for the office.

### **Highlights**

- Worksheet size is up to 256 columns maximum or 2048 rows maximum. Memory required is 192k minimum and 544K maximum. All functions are available with 192K memory. The worksheet size increases with memory size.
- Spreadsheet manipulation allows the user to:
  - Move a whole area or one line.
  - Erase one defined area of the spreadsheet.
  - Increase width of only one column.
- A user can perform frequently used commands with dedicated function keys. A template showing these special functions fits over the function key pad.
- Expanded mathematical functions such as future value, payment, date, statistical, standard deviation, and variance are available.
- Printer control allows extensive formatting of the worksheet before going to the printer. Users may add headers, footers, margins, selected portions.
- The combination of keystrokes into one “macro” keystroke gives a user the capability to tie a series of frequently-used keystrokes into one. Users may save the macro and the worksheet for later use.
- 1-2-3 can import and print standard text files. Translation programs are unnecessary to read data from other programs.
- Graphics offer a range of options that can produce:
  - Graphs using information already in the spreadsheet.
  - Bar charts, line charts, stacked bar charts, X-Y charts, and scatter charts.
  - Color charts.

- Presentation or publication quality graphs in size and typeface specified.
- Information management provides what-if analysis with the following features:
  - Search for and extract records that meet defined criteria.
  - Sort, build data tables, and calculate distribution for statistical analysis of database.
  - Use data in data base directly in worksheet calculations, graphs, or both.
- Text manipulation provided to:
  - Enter text directly into a spreadsheet and edit or reformat.
  - Annotate models easily to produce quick memos and reports.
  - Allow storing of sequences of keystrokes for future use. These stored Typing Alternative sequences of keystrokes may be interactive to allow manual input.
- 1-2-3 accepts files from dBASE II™ and VisiCalc®
- It imports and exports DIF files and ASCII text.
- Supports multiple graphics printers and plotters.
- Supports dual screens—monochrome and color.
- A demonstrator diskette (6871355, feature 9111) is available at \$150. See the **Note** in the preface.

The user can start with a program that expands from a beginner's capabilities to more advanced techniques. 1-2-3 also allows the experienced spreadsheet user to transfer knowledge quickly and move to advanced features.

Most spreadsheet conventions that are familiar are in 1-2-3. The effect of changing numbers or assumptions on entered data may be seen in seconds on the spreadsheet or graphs. PC users who put time and effort in creating VisiCalc® spreadsheet models can use them. The 1-2-3 Translate Utility Program converts a VisiCalc file into a 1-2-3 file.

1-2-3 users may upgrade to Symphony. See the articles on Symphony and the Symphony Upgrade Kit.

**Environment:** PC, XT, AT, RT or XT/370 with 256k, two drives or one plus hard disk, Graphics (matrix) printer and DOS 1.1 or later. The 3270-PC version is order number 6871468. The PCjr version is 6187305.

## 3101 Emulation 6024042 \$149

The program connects the PC to another computer as if it were an IBM 3101 Display terminal. This allows access to a host for interactive applications as well as the normal stand-alone processing which is available when the 3101 Emulation Program is not executing.

### Highlights

- Emulates the IBM 3101 Display Terminal according to user-selected options contained in specification files.
- Provides several specification files as examples of popular 3101 configurations.
- Transmits ASCII format files to and from host computer and local storage diskettes.
- Converts ASCII format diskette files to and from binary format.

The program emulates the IBM 3101 model 20, with some differences. Users may specify line characteristics and keyboard mapping. Sample specification files are provided for:

- VM and MVS
- IBM 7426 Terminal Interface Unit (TIU) for IBM 8100
- EDX Yale ASCII Communication program
- 3101 Pass-through (PVM)
- Dow Jones ® News Service
- The Source (service mark)
- Communications with another PC

Some IBM 3101 functions not supported are:

- Transparent mode
- Half-duplex modems
- Reverse channel and controlled request-to-send
- Non-EIA RS232-C interfaces
- Reverse video
- Non-blinking cursor
- Highlighting via color/graphics monitor adapter
- Program mode and ATTR keys
- Local mode
- Print line function
- Print and send message functions, and send mark function
- Foreign language features

**Environment:** Requires a PC or XT with one drive, Asynchronous Communications Adapter (1502074), full duplex modem or direct cable

connection to a host computer, EIA RS232-C cable for adapter to modem connection. DOS1 or later required; DOS2 supports hard disk.

## **3270 Binary Synchronous Emulation**

6024037 \$769

This program provides flexibility for interactive and office system use as an intelligent work station. Operating in BSC 3270 emulation mode the PC appears to the host as a 3270 BSC Control unit.

### **Communications Interface**

- Supports IBM BSC Communications Adapter (1502075).
- Supports switched and leased lines.
- Supports modem attachment.
- Provides constant line trace, error logging and communications statistics accumulation.

### **EIA RS232-C interface**

- Half duplex
- External clocking
- Up to 9600 bps

BSC 3270 emulation. The PC appears to the host system as one of the following IBM 3270 BSC devices:

- 3271 model 2/3277 model 2 (leased line)
- 3274 model 51C/3278 model 2 (leased line)
- 3275 model 2 (switched and leased line)
- 3276 model 2 (leased line)

The PC uses the same screen formats as supported by the IBM 3275, 3276, 3277 and 3278 except for the status line. Only the following features are provided:

- Twelve program function keys
- Local print key
- Audible alarm
- EBCDIC line transmission support
- Keyboard numeric lock
- IBM 3279 base color mode support
- Status line messages

### **Printer support**

- 3284 model 3 (when configured as a 3275)
- 3284 model 2
- 3286 model 2
- 3288 model 2

The PC will connect to host subsystems that support the above devices and features/options. A Configuration utility is included to tailor the communications environment. Additional non-3270 functions:

- 3270 keys are user-definable.
- PRINT command allows users to route printer directed data to a file.
- SEND command allows ASCII file data to be written to the unprotected fields on the display for modification and/or transmission to the host.
- TRACE command formats and prints or displays the communications line trace.
- STATS command displays communications statistics.

When used with the IBM BSC Communications Adapter it acts as a terminal that can communicate with a host system supporting BSC 3270. It includes access method software to support the IBM BSC Communications Adapter with additional support to provide BSC 3270 Emulation.

The User's Guide describes both installation and operation. A configuration program uses menus to prompt the user for various options available using default values for the most common configurations.

3271 mdl 2/3277 mdl 2	Leased line
3274 mdl 51C/3278 mdl 2	Leased line
3275 mdl 2	Switched and leased line
3276 mdl 2	Leased line

**Environment:** Requires a PC or XT with 128k and one drive, 5152 Model 2 printer, BSC Communications Adapter (1502075), Communications Adapter cable (1502067), Synchronous Communications modem with clocking to 9600 on a leased or switched line and DOS 1.1 or later. DOS2 supports fixed disk.

## **3270 SNA Emulation and RJE 6024036 \$769**

This program provides significant connectivity functions. These extensions provide additional flexibility for interactive and office system use as an intelligent work station. Operating in SNA 3270 emulation mode, the PC appears to the host system as a 3274 Model 51C. Communications Interface

- Supports IBM SDLC Communications Adapter.
- Supports switched and leased line (including multipoint).
- Supports modem attachment.

- Provides online diagnostics with line trace, error logging, and analysis.

#### EIA RS232-C Interface

- Half duplex
- External clocking
- Up to 4800 bps
- Constant request to send and line turn-around

The PC uses the same screen formats as supported by the IBM 3278 Display Station, except for the status line. The following features are provided:

- Logical Unit Type 2 (LU2)
- 24 3270 program function keys
- Local print key
- Audible alarm
- EBCDIC line transmission support
- Keyboard numeric lock
- 3279 base color mode support
- 3279 Color Emulation
- Status line messages
- User-definable 3270 keys

#### 3287 Models 1 and 2 printer emulation

- For local copy
- For host-initiated screen print

The PC will connect to host subsystems that support the above devices and features/options. A configuration utility to tailor the communications environment is supplied.

SNA 3770 RJE support: The PC will connect to 3770 subsystems that support these devices and features/options. A configuration utility to tailor the communications environment is supplied, with these functions.

- Logical Unit type 1 (LU1)
- FM Header type 1
- TS Profile 3 and FM Profile 3
- Outbound from host compression
- ASCII or EBCDIC line transmission support
- Transparency
- Device support for console, card/punch, and printer

Transmit and receive source and object data in DOS compatible format. Formatted printing is supported for:

- Channel control
- Page size
- Tab setting
- Set line density (1 to 72 lpi)



- Selectable diskette drives
- Print to diskette or printer
- End of job statistics
- Multiple data set print/punch output
- Multiple job file support from keyboard or diskette

When used with the IBM SDLC Adapter, the program permits the PC to act as a terminal that can communicate with a host system in one of two modes, either supporting SNA 3270 or SNA 3770 RJE. It includes access method software to support the IBM SDLC Adapter, with additional support to provide both SNA 3270 Emulation and SNA 37 70 RJE interfaces to the user.

**Environment:** Requires a PC or XT with 128k and one drive and DOS 1.1 or later. DOS2 supports hard disk. Also requires SDLC Communications Adapter (1502090), Communications Adapter cable (1502067), Synchronous Communications modem with clocking to 4800 switched or leased line and a host CPU e.g. a S/370 with 3270 software support.

## **5218 Printer Driver Program 6293576 \$175**

This program, in conjunction with the 5218 Printer Attachment Cable and Printer Sharing feature, allows the attachment of the 5218 Printer to the PC.

### **Highlights**

- Provides letter quality printer support for the PC and XT.
- Two models of the 5218 Printer are supported--A03 at forty cps and A04 at sixty cps.
- The 5218 Printer driver software supports the attachment of the Front Exit Sheet Feed (#7870), Front Exit Sheet and Envelope Feed (# 7875), and Tractor Feed (#7850) Devices on the 5218 Printer mdl A03 or A04.
- With the Printer Sharing Device, up to four IBM PCs or XTs may share one 5218 Printer mdl A03 or A04 in a clustered environment.

The 5218 Printer Driver Program, in conjunction with the 5218 Printer Attachment Cable and Printer Sharing feature, allows the attachment of the 5218 Printwheel Printer mdl A03 or A04 and its Sheet Feed, Sheet and Envelope Feed, and Tractor Feed devices to the PC or XT for letter quality print applications. (See the Product Announcement for the 5218 Printer Attachment and Printer Sharing feature for the Personal Computer, dated April 3, 1984.) In addition, with the 5218 Printer Sharing feature, the 5218 models A03 or A04 can be used in a clustered environment, supporting up to four PCs or XTs in any combination.

## Considerations

- An ASCII printwheel is recommended for use with the 5218/PC configuration. All of the PC or PC XT system alphameric characters are available with these ASCII printwheels. Special graphic characters are not printable and are converted to underscores. Refer to the NDD Supplies catalog for a complete listing of available ASCII printwheels or call IBM Direct toll-free at 1-800-IBM-2468.
- If you attempt to print in the top left corner of a cut sheet, it is possible that the corner of the paper will catch on the printer card guide. To prevent this, the 5218 Printer Device Driver Program will not allow printing less than 1/3 of an inch from the top of the cut sheet paper.
- When the 5218 Printer is equipped with paper handling devices (#7870 or #7875), continuous reverse line feed operations may cause paper tearing or a paper jam.
- Operator intervention is required to ensure proper paper alignment prior to printing when the Continuous Forms Tractor Device (#78 50) is used in conjunction with the Printer Sharing Device (#4471).
- If asynchronous communication is required in addition to the IBM 5218 Printer operation, a second Asynchronous Communications Adapter Card must be configured as COM2. The IBM Asynchronous Communications Support Program is the only communications program that is supported to run concurrently with the 5218 Printer Driver Program. The DisplayComm BSC program cannot be loaded when the 5218 Printer is printing. Conversely, printing on the 5218 Printer cannot be started while the DisplayComm BSC program is loaded. Other communication/system attachment programs cannot be loaded when the the 5218 Printer Driver is loaded. However, an IBM PC or PC XT may be configured with the program's associated adapter card when the 5218 Printer Driver.

**Environment:** PC or XT with Asynchronous Communications Adapter (1502074), DOS 1.1 or later and a 5218 A03, 4 with features 9203 and 4470.

## 5250 Emulation Program Kit 6092656 \$745

This Program and its associated electronics provide connectivity to the System/34, 36 or 38. The PC then may switch between native standalone operation and the 5250 workstation.

## Highlights

- The Personal Computer may be connected either as a local 5250 work station (up to 5000 feet) or remotely.
- The user acquires all of the host functions available to a display station operator.
- Using a function key the operator may switch between native mode and and 5250 emulation.
- The Personal Computer (PC) is plug compatible with the 5251-11 and 5291/5292 displays.
- During emulation the displayed '5250' screen can be printed on the Personal Computer printer.
- if the S/34 or S/38 is equipped with the 3270 Emulation program, the PC will in turn assume that character; thus operating in three alternate states.
- The PC may be used as an alternate console.
- PC diskettes and printer remain operative with this program.
- The host computer is not altered by the attachment; (except the configuration now has an additional entry).
- The Kit includes all the electronics, parts and documentation required for complete installation: The program itself, an Adapter card (same as the one furnished in 7033-703/02), installation and diagnostic manuals, T-connector and twinax cables.
- The Program may be purchased separately for \$164; order 6092651.
- An Enhanced Kit is described in Product Announcement 184-130 and priced at \$995; order 6403692. The Program itself is \$160; order 6403674.

## Potential Benefits

- In many cases the standalone computer exhausts storage and software resources at the very time that its (department) users have come to depend on it. Connecting the Personal Computer to a host solves the problem by going to the architectural cause. The richness of host software and volume storage are available to the user with minimum impact on present personal computing or decision support systems.
- For the installation with existing terminal workstations, this affords a simplistic approach to integrate local computing and responsibility without alteration to network architecture or special host software.

- Management can encourage selected departments to participate in the application development and systems management activities. This approach has frequently and dramatically improved the return on application investment. Further, the subsequent burden of minor enhancements and maintenance is simplified and partly offloaded from the central facility.



**Environment:** PC or XT with DOS 1.1 or later and a System/34, 36 or 38.

## Notes

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## **Section Three**

## **Keyword Sequence**





Keyword	Program Title	Number	OTC	ILC	MLC	DSO	DSI	DSM	HLP	MML	Mo	MoreInfo	Environment	TPLS
+ Berkeley 4.2	Academic Information System 4.2	5799-CGZ	1715										RT	05C
+1BARSOFT	1BARSOFT (Manual)	5793-AGM/01	75									GB30-2027	Industrial PC	05Y
+1BARSOFT	1BARSOFT tm	5793-AGN	895									GB30-2027	Industrial PC	05Y
+ense	Dollars and fense tm	6871-482	180									.GB30-2037	PC,PCjr	05Y
A/P	Financial- Open Item Acctg A/R A/P Rel 3	5668-969	9855		448							.GH20-2467	CICS+IMS+PL/I	15B
A/P	Financial- Payment Processing A/P Rel 3	5668-970	6820	562	310							.GH20-2467	CICS+IMS+PL/I	15B
A/P	Open Item Accounting A/R A/P Rel 3	5746-F54	8775		399							.GH12-5120	CICS+DL/I+PL/I	15E
A/P	Payment Processing A/P Release 3	5746-F55	6600		300							.GH12-5120	CICS+DL/I+PL/I	15E
+A/R	Acctg Assistant Series - A/R and Billing	6317-051	595									.	PC,XT,AT	05Z
+A/R	Acctg Assistant Series - A/R and Billing	6467-006	595									.	3.5" disk	05Z
A/R	Financial- Open Item Acctg A/R A/P Rel 3	5668-969	9855		448							.GH20-2467	CICS+IMS+PL/I	15B
A/R	Open Item Accounting A/R A/P Rel 3	5746-F54	8775		399							.GH12-5120	CICS+DL/I+PL/I	15E
A/R	Revenue Accounting Construction A/R	5726-M6A	3725		151	2795		112				.GH30-0707	System/34	11D
Abatements	Community Mental Health MIS	5796-PXX	7700									.G320-0330	System/36	15H
ABC	4700 ABC Upgrade from Version 1 (5799B0Y)	5799-BZE/01	450									.	4676	15E
-Abstract	HCS DL/I Medical Record Abstract System	5796-AYL			747							24.G320-6341	VSE+5798-CCA,CCB	15H
Abstracting	Hosp Info - Medical Records Abstracting	5727-ABL/02	14300		650							.	6083,6099	15H
Abstracts online	Periodicals Control System Rel 4	5785-DDN	15795	2500	718							24.G320-6662	5787-DAA+FAJ+FAH	Z3H
+Academic	Academic Information System 4.2	5799-CGZ	1715										RT	05C
+Academic	Electric Desk tm Academic Edition	6205-272	64									GB30-2037	PC,XT,AT,jr	05Y
+Academic	Electric Desk tm Academic Edition	6205-273	64									.GB30-2037	PC 3.5" drive	05Y
+Academic	Electric Desk tm Academic Edition	6404-014	13									GB30-2037	User's Guide	05Y
+Academic	Electric Desk tm Academic Edition	6476-223	86									.GB30-2037	PCjr cartridge	05Y
-ACCAP	Autocoder to COBOL Conversion Aid Progrm	5798-CNH	1230									.GB21-2022	VM/CMS	01H
+Acceleration	Investigating Acceleration	6024-403	75									G520-1107	PC,PCjr,XT,AT+color	05Z
Account	Account Network Management Program	5798-DAT	5880		267							.GB21-2521	CICS/DOS/VS	11X
+Account	BANCStar tm 4700 Account Opening	6430-784	750									.	PC,XT,AT+4700	05E
Account	Client Account & Financial Reporting Sys	5726-C21	4100		182							.GH30-0230	System/34	11C
Account	Client Account & Financial Report Sys II	5726-C22	7400		280	5550		196				.GH30-0230	System/34	11X
-Accounting	=MONEY=TRACK=	5796-ZFB	495									.GB30-2313	Displaywriter+UCSD-P	15X
-Accounting	Accounting Principles Course	5796-PQY			990	379						12.G320-6671	I15	1EX
Accounting	Accounting Solutions	6024-152	89									.G520-3917	PC,XT,PCjr,PPC	05Z
+Accounting	Auto Dealer - Accounting	5796-ZNX	13600									GB30-6013	System/36	15H
Accounting	Auto Dealership Mgmt - Accounting	5796-ZEJ	11000									.GB30-2107	System/34	15X
+Accounting	Business Adviser - General Accounting	6466-988	995									.	XT,AT,LAN,TokenRing	105G
Accounting	BL Accounting Kit	6187-293	2995									.	PC	05Y
Accounting	BPI (R) General Accounting	6187-165	595									.	PC	05Y
Accounting	BPI (R) General Accounting	6187-212	50									.	PC	05Y
Accounting	Client Accounting	5715-CA1	2230									.GB30-2796	Sys/23 Datamaster	11E
Accounting	Commercial Bank Savings Accounting	5746-F62				378						.GH20-2497	DOS/VS+E/CBAS Base	15X
Accounting	Commercial Bank Club Accounting	5746-F66			618	238						.GH20-2497	DOS/VS+E/CBAS Base	15X
-Accounting	Control & Accounting Programs	5798-AYP	561		51							12.GB21-1110	VM/CMS	15H
-Accounting	CADAM (R) Accounting Information Module	5796-ATH	3540	654	63	2020	399	35				G320-6063	OS/VS,VM+GAM	15E
Accounting	COPICS Inventory Accounting II	5785-GBE	5475		105							.GB21-2644	DOS/VS/OS DL/I	15E
Accounting	Data Processing Accounting for IMS/VS	5740-DC2	10670		485							.GH19-6028	OS/VS	11C
Accounting	Demand Deposit Accounting Banking	5726-F12	3600		188							.G360-0050	System/34	11X
-Accounting	DPCX Accounting System / Departmental	5798-DDL	1330		121							12.GB21-2688	DMS/3790,DPCX	15H
Accounting	Fixed Asset Accounting & Control	5798-NQF			161							12.GB30-1156	System/34	15H
-Accounting	Fixed Asset Accounting & Control	5798-RJG	2640									.GB30-1790	Replaced by 5798-RWT	15X
-Accounting	Fixed Asset Accounting & Control II	5798-RJH	2310									.GB30-1787	System/34	15X

Keyword	Program Title	Number	OTC	ILC	MLC	DSO	DSI	DSH	MLP	MHL	Mo	MoreInfo	Environment	TPLS	
Accounting	Fixed Asset Accounting & Control System	5798-RPH	2750									.GB30-2221	System/36	15X	
+Accounting	Fixed Asset Accounting and Control System	5798-RWT	2800									.GB30-6010	System/38	15H	
Accounting	General Accounting by BPI tm	6024-026	425									.G520-3917	PC	0SZ	
Accounting	Hotel Reservation & Guest Accounting Sys	5710-001	66000									.GB30-2034	System/38	15H	
Accounting	Installment Loan Accounting Banking	5726-F14	4100		213							.G360-0050	System/34	11X	
Accounting	Inventory Accounting Mgmt Info Multi Ind	5715-XG6	1225									.GB30-2711	Sys/23 Datamaster	11X	
Accounting	Inventory Accounting - Disk	5715-XZ6	1790									.G280-0233	Sys/23 Datamaster	11X	
Accounting	Inventory Accounting	5726-XB9	1700									.G280-0233	System/34	11X	
Accounting	Inventory Accounting	5727-XB6	1980									.GB30-2711	System/36	15B	
Accounting	Inventory Accounting	6201-870	995									.SB30-3541	System/36 FC	0SG	
Accounting	Motor Freight Revenue Accounting	5726-T21	8030		420							.GH30-0413	System/34	11X	
Accounting	Open Item Accounting A/R A/P Rel 3	5746-F54	8775		399							.GH12-5120	CICS+/DL/I+PL/I	15E	
Accounting	Public Budgeting & Accounting Appl Govt	5726-G21	12230		468	9175	350					.GH30-0229	System/34	11X	
Accounting	Revenue Accounting Construction A/R	5726-M6A	3725		151	2795	112					.GH30-0707	System/34	11D	
Accounting	Revenue Accounting	5727-M6A	3905		227	2930						.GH30-9003	System/36+CASS	15B	
Accounting	Savings Accounting Banking	5726-F13	3550		184							.G360-0050	System/34	11X	
Accounting	Schools Financial Accounting System	5796-ZNA	8000									.GB30-6002	System/36 FC	15H	
Accounting	Student Accounting School Administration	5726-E32	3410		167							.GH30-0414	System/34	11X	
-Accounting	Travel Agency Management and Accounting	5796-ZEY	11000		500							.GB30-2305	Sys/23 Datamaster	15H	
Accounts	See Payable or Receivable	0000-010	nc											0H3	
Acct	DMAS II Acct Rec Enhance - Fegd Distrib	5798-NX2			158						12.0	.GB30-1340	System/34	15H	
+Acctg	Acctg Assistant Series - General Acctg	6317-049	595									.	PC,XT,AT	0SZ	
+Acctg	Acctg Assistant Series - General Acctg	6317-049	595									.	PC,XT,AT	0SZ	
+Acctg	Acctg Assistant Series - Accounts Payabl	6317-050	595									.	PC,XT,AT	0SZ	
+Acctg	Acctg Assistant Series - A/R and Billing	6317-051	595									.	PC,XT,AT	0SZ	
+Acctg	Acctg Assistant Series - Inventory Contr	6317-052	595									.	PC,XT,AT	0SZ	
+Acctg	Acctg Assistant Series - Inv Ctl & Purch	6317-053	595									.	PC,XT,Atk	0SZ	
+Acctg	Acctg Assistant Series - Job Costing	6317-054	595									.	PC,XT,AT	0SZ	
+Acctg	Acctg Assistant Series - General Acctg	6467-003	595									.	3.5" disk	0SZ	
+Acctg	Acctg Assistant Series - General Acctg	6467-003	595									.	3.5" disk	0SZ	
+Acctg	Acctg Assistant Series - Accounts Payabl	6467-004	595									.	3.5" disk	0SZ	
+Acctg	Acctg Assistant Series - A/R and Billing	6467-006	595									.	3.5" disk	0SZ	
+Acctg	Acctg Assistant Series - Inv Ctl & Purch	6467-007	595									.	3.5" disk	0SZ	
+Acctg	Acctg Assistant Series - Job Costing	6467-008	595									.	3.5" disk	0SZ	
+Acctg	Auto Dealer Acctg, Upgr from 5796-ZGX	5796-ZNX/01	1875									.GB30-6013	System/36	15H	
Acctg	Business Management Series Acctg Extend	6410-958	275									.	PC+10MB	0SG	
-Acctg	College Business Sys Financial Acctg	5796-RQE	7150									.GB30-2181	System/36	15X	
Acctg	Commercial Bank Commercial Loan Acctg	5746-F68		1615	618							.GH20-2497	D05/VSE+CBAS Base	15X	
Acctg	Distributors Mgt Acctg - Billing	5727-D41	4070		233	3050						.GH30-0690	CASS	15B	
Acctg	Distributors Mgt Acctg - Accts Rec	5727-D42	2805		163	2105						.GH30-0690	CASS	15B	
Acctg	Distributors Mgt Acctg - Inv Ctr1	5727-D43	3685		214	2765						.GH30-0690	CASS	15B	
Acctg	Distributors Mgt Acctg - Sales Anal	5727-D44	3685		214	2765						.GH30-0696	CASS	15B	
Acctg	Distributors Mgt Acctg - Purchasing	5727-D45	7810		447	5855						.GH30-0696	CASS	15B	
Acctg	Distributors Mgt Acctg - Inv Mgmt	5727-D46	6435		371	4825						.GH30-0690	CASS+5727-D43	15B	
Acctg	Distributors Mgt Acctg - Gen Ledger	5727-D47	2805		163	2105						.GH30-0696	CASS	15B	
Acctg	Distributors Mgt Acctg - Accts Pay	5727-D48	2805		163	2105						.GH30-0696	CASS	15B	
Acctg	Distributors Mgt Acctg - Payroll	5727-D49	3795		220	2845						.GH30-0696	CASS	15B	
Acctg	Financial- Open Item Acctg A/R A/P Rel 3	5668-969	9855		448							.GH20-2467	CICS+IMS+PL/I	15B	
+Acctg	Fixed Asset Acctg - Upgr from 5798-RJG	5798-RWT/01	600									.GB30-6010	4408,9049	15H	
-Acctg	General Ledger & Financial Acctg	5798-RFH	1815		165							12.0	.GB30-1673	System/34	15X

Keywords - Alphabetic Sequence

3-2

Codes Explained in Appendix B

Keyword	Program Title	Number	OTC	ILC	MLC	DSO	DSI	DSH	HLP	MML	Mo	MoreInfo	Environment	TPLS
Acctg	Public Sector Acctg Sys - Utility Acctg	5710-GA6	8500										System/36	1SI
Acctg	Public Sector Acctg Sys - Utility Acctg	5710-GA6	8500										System/36	1SI
Acctg	Public Sector Payroll & Personnel Acctg	5710-GA5	4400										System/36	1SI
Accts	See Payable or Receivable	0000-010	nc											N0S
Accuracy	High Accuracy Arithmetic Subroutine Libr	5665-337	6000										GC33-6163 MVS,XA+5748-F03	1SE
+ACF	ACF / Network Control Program V4 Subset	5668-754			275			206	48	77			GC30-3350 VSE,VM,MVS,XA+VTAM	2SK
ACF	ACF / System Support Programs Version 2	5735-XXX		508	92			381	69	24	38		GC27-0657 MVS,XA+NCP-3	2SK
ACF	ACF / VTAM Version 3.1.1	5666-280						2640	880	247	395		GC30-3246 VM	2SK
-ACF	ACF Network Generation Aid	5798-DFP	1045										.GB21-2809 MVS, D0S/VSE	1SX
ACF	ACF Telecommunications Control System	5740-XY3	2640		235								GH20-2192 0S/V5	1SC
ACF	ACF / ACF Transactions	5748-T11/01			3060								GH20-2140 6041	2SE
ACF-TCS	ACF-TCS Networking Feature	5740-XY3/01	3960		353								GH20-2156 6090	2SC
ACF/NCP	ACF/Network Control Program Version 3	5667-124		2550	425			2310	385	148	237		GC27-0657 3705/25+MVS,XA	2SK
-ACF/NCP	ACF/Network Control Program Version 1	5735-XX1		1305	234			979	176	35	56		GC30-9533 D0S/V5, D0S/VSE, 0S/V5	2SK
ACF/NCP	ACF/Network Control Program Version 2	5735-XX9		1305	261			979	196	96	154		GC30-3071 0S/V5, D0S/VSE+3725	2SK
-ACF/NCP	ACF/NCP System Support Program	5735-XX3		399	72			299	54	19	30		GC30-3058 D0S/VSE, 0S/V5	2SX
ACF/NCP	ACF/NCP Version 4.2	5668-854		2085	695			1875	625	148	237		GC23-0108 3725/20+VTAM/TCAM	2SK
ACF/NCP/V5	S.W.I.F.T. for ACF/NCP/V5	5799-WRF	nc										.SC19-5016 3704/3705	N0SS
ACF/Network	ACF/Network Control Program Version 3	5667-124		2550	425			2310	385	148	237		GC27-0657 3705/25+MVS,XA	2SK
-ACF/Network	ACF/Network Control Program Version 1	5735-XX1		1305	234			979	176	35	56		GC30-9533 D0S/V5, D0S/VSE, 0S/V5	2SX
ACF/Network	ACF/Network Control Program Version 2	5735-XX9		1305	261			979	196	96	154		GC30-3071 0S/V5, D0S/VSE+3725	2SK
ACF/SSP	ACF / System Support Programs Version 2	5735-XXX		508	92			381	69	24	38		GC27-0657 MVS,XA+NCP-3	2SK
-ACF/SSP	ACF/NCP System Support Program	5735-XX3		399	72			299	54	19	30		GC30-3058 D0S/VSE, 0S/V5	2SX
ACF/System	ACF/System Support Programs Version 3.2	5666-289		960	320			720	240	44	70		GC23-0108 3705/20/25+VM	2SK
ACF/System	ACF/System Support Programs Version 3.2	5665-338		1605	535			1200	400	71	114		GC23-0108 3705/20/25+MVS,XA	2SK
+ACF/System	ACF/System Support Programs Version 3.2	5666-322		321	107			240	80	27	43		GC23-0108 3705/20/25+VSE	2SK
ACF/TCAM	ACF/TCAM - Multisystems Networking	5735-RCL/01	14640		1305	10980		979	31	50	12		GC30-9500 6000,6517	2SC
ACF/TCAM	ACF/TCAM - Multisystems Networking	5735-RCS/01		4070	1465			3053	099	115	181		GC30-3057 6003,2111,6503,2311	2SK
ACF/TCAM	ACF/TCAM - Version 3	5665-314		8025	2675			6015	2005	330	528		GC30-3235 ACF/VTAM V2 or 3	2SK
ACF/TCAM	ACF/TCAM - Version 1	5735-RCL	3948		352	2952		263	12	19	12		GC30-2050 0S/V5/MVS	2SK
ACF/TCAM	ACF/TCAM - Version 2	5735-RC3		2420	874			1815	655	91	145		GC30-3057 0S/V5, MVS,XA	2SX
ACF/VTAM	ACF/VTAM	5746-RC3			197			177	58	93			GC27-0462 D0S/VSE/AF	2SK
ACF/VTAM	ACF/VTAM - Encrypt / Decrypt Feature	5735-RCC/02		770	269			577	202	8	13		GC38-0285 6010,2109,6512,2309	1SK
ACF/VTAM	ACF/VTAM - Multisystems Networking	5735-RCC/01		3080	1100			2310	825	163	260		GC38-0284 6009,2108,6509,2308	2SK
ACF/VTAM	ACF/VTAM - Version 2	5662-280		1970	657			1478	493	94	150		GC27-0608 0S/V51	2SK
ACF/VTAM	ACF/VTAM - Version 2	5665-280		3745	1245			2809	934	225	360		GC27-0657 MVS, MVS/XA	2SK
ACF/VTAM	ACF/VTAM - Version 2	5666-280		849	284			765	256	59	94		GC27-0608 D0S/VSE, VSE/AF	2SK
-ACF/VTAM	ACF/VTAM Buffer Selection Aid	5798-DHF	742										.GB21-2900 MVS, D0S/VSE	1SX
ACF/VTAM	ACF/VTAM Multisystem Networking Feature	5746-RCS/01			374			337	174	278			GC27-0462 6059,6500	2SK
ACF/VTAM	ACF/VTAM Ver 2 - Encrypt/Decrypt Feature	5662-280/01			240			180	7	11			GC27-0608 6000,6500	1SK
ACF/VTAM	ACF/VTAM Ver 2 - Encrypt/Decrypt Feature	5665-280/01			259			194	8	13			GC27-0608 6000,6500	1SK
ACF/VTAM	ACF/VTAM Version 3.1.1	5665-289		6255	2085			4695	1565	302	483		GC23-0108 XA	2SK
+ACF/VTAM	ACF/VTAM Version 3	5666-313		963	321			864	288	82	131		GC23-0108 XE	2SK
ACF/VTAM	ACF/VTAM Version 1	5735-RC2		1320	457			990	343	55	88		GC27-0462 0S/V51,MVS	2SK
ACF/VTAM	Remote Spooling Communication Subsystem	5796-PXF	3850										GS20-0323 VSE+VM+6670 line_dvr	1SX
ACF/VTAM	VSE/SP ACF/VTAM	5666-316/10	6815		265	6135								1S
ACF/VTAM	VSE/SP ACF/VTAM Feature	5799-BNB/10	5930		246	5335							4523,4934,4972,4973	1SK
ACF/VTAM	VSE/SP ACF/VTAM Feature	5799-BNC/11	6815		284	6135							4945,4996,4997,4581	1SK
ACF/VTAM	VTAM SCP ACF/VTAM	5747-CF1			nc								GC27-0459 D0S/VSE	N0SJ
ACF/VTAM	VTAM SCP ACF/VTAM	5747-CF1			nc								GC27-0459 D0S/VSE	N0SJ

Keyword	Program Title	Number	OTC	ILC	MLC	DSO	DSI	DSM	MLP	HML	Mo	MoreInfo	Environment	TPLS
-ACF/VTAME	ACF/VTAME Trace Interpretation	5798-DKN	495									.GB21-3023	DOS/VSE	15X
ACF/VTAME	VTAM SCP for ACF/VTAME	5747-CG2	nc									GC27-0440	DOS/VSE	N05J
+ACIS 4.2	Academic Information System 4.2	5799-CGZ	1715										RT	05C
ACP	Airline Control Program ACP	5799-HKG	nc									GE20-0423	V51-V52 (Off Line)	N05X
ACP	ACP / ACF Transactions	5748-T11/01			3060							GH20-2140	6041	25E
ACP	ACP Advanced Communication Function	5748-T12/01		8025	3075							GH20-6200	2111,6081	25E
ACP	ACP Programming Language/Transaction 1.1	5796-PTN		5000	1435							24.G320-9148	MVS,VM+ACP/TPF	15H
ACP	ACP Transaction Processing Facil 2.2	5748-T12			3210012300							GH20-6200		25E
ACP	ACP Transaction Processing	5799-WQP	nc									GH20-2140	5748-T11	N05E
ACP	ACP TPF2 / High Performance Option	5748-T12/02		21000	7000							GH20-6200	2112,6080	25E
ACP/ACF	ACP / ACF Transactions	5748-T11/01			3060							GH20-2140	6041	25E
Acquisition	Data Acquisition and Control Adapter	6024-202	175									6520-1107	DACS adapter+DOS2+	05Z
Acquisition	Industrial Terminal: Acquisition & Tran	5798-RRD/01	1650										3056	15H
Acquisition	Laboratory Data Acquisition System	5796-AHM										24.G320-6095	VSE	15H
ACRITH	High-Accuracy Arithmetic FORTRAN Subrout	5664-185/01	150										3002 XT/370+VM/PC	05C
ACRITH 1.3	High Accuracy Arithmetic Subroutine Libr	5665-337	6000									GC33-6163	MVS,XA+5748-F03	15E
ACRITH 1.3	High-Accuracy Arithmetic Subroutine Libr	5664-185	2500									GC33-6163	VM+5748-F03,5748-LM3	15E
ACRITH 1.3	High-Accuracy Arithmetic FORTRAN Subrout	5666-320	2500									GC33-6163	VSE+5748-F03	15E
+ACRO-900	THE FIX Device Driver for ACRO-900 tm	5793-AQQ/06	795									GB30-2027	5793-AGW	05Y
ACS	Advanced Control System - Host ACS	5799-BEJ	247800	22530								12.GH20-2464	V51,5799-AHE	25E
ACS	Advanced Control System ACS	5799-BEN	20070	1825								12.GH20-2464	Series/1+5799-BEJ	25E
ACS	ACS On-Line / IPCS Integration	5796-ZHK	3300									.GB30-2258	System/36	15X
ACS	ACS On-Line System tm	5796-ZFG	49500									.GB30-2258	System/36	15X
ACS	Integrated Production Control System	5796-ZFH	19250									.GB30-2261	System/36	15X
ACS	Interactive Schematics Builder for ACS	5799-CAF	8800	400									5799-AHE and BEJ	05C
ACT/VTAM	ACT/VTAM Version 3.1.1	5665-313		5130	1710			38401280	275	440		GC23-0108	MVS	25K
-Activity	SMF Problem Program Activity Report	5798-CPP	968	88								12.GB21-2089	MVS	11H
Activity	Turtle Power Activity Book	6024-079	15									6520-1107	Turtle Power PC.AT	05Z
Adapter	Data Acquisition and Control Adapter	6024-202	175									6520-1107	DACS adapter+DOS2+	05Z
Adapter	General Purpose Interface Bus Adapter	6024-201	89									6520-1107	GP1B+DOS2+	05Z
ADCS	Advanced Data Communication for Stores	5735-XR2	5455		248							.GH20-2188	DOS/VSE,05/VS	13E
Additional	RPS ADS Additional Languages (per each)	5719-U21/02	1060	70									4000,5000	15H
+Additional	SSP Additional Support	5727-S31/12	500	40	440								6101,4931,4932,4933	15A
+Addl	Graphics CP 3.2, Addl update from 3.1	1887-962	55										GPC 3.1	05M
Address	CPS Address Translator Support	5799-TBT	144	7								24.GC34-1601	Series/1	15C
Address	RPS Address Translation Version 3	5799-TBY	180	5									Series/1	05C
+Address	SOLOMON III tm Address and Mail List	5669-098	395									SV21-8041	General Ledger	05Z
ADF	ADF - Training Feature	5798-DDM/01	700									.GB21-2712	6020-6023	15X
Adjustments	CPCS Online Adjustments - II	5798-CLD		818								12.GB21-1948	05/VS CPCS	15H
Adjustments	CPCS Online Adjustments - II Enhanced	5798-CLD/01		208								GB21-1948	9562	15E
Admin	Admin System for Colleges/ Student Recds	5796-PHY	7920									.G320-0194	System/38	15H
Admin	Admin System for Colleges/ Financial Aid	5796-PMZ	8800									.G320-0194	System/38	15H
Administration	Banking Administration	5798-DTK	550									.G320-0363	Displaywriter	15X
Administration	DPCX Automated Administration Activities	5798-DHB	1030									.GB21-2889	DPCX	15X
Administration	Instructional System - Administration	6428-087	639									.G320-0491	PC	05X
+Administration	PC/Classroom LAN Administration Syst 1.0	6024-159	995										Advanced NetWare 2.0	01Z
Administration	School - Student Administration System	5796-ZFZ	13200									.GB30-2268	System/36	15H
-Administration	Student Administration System	5796-ZFN	14300									.GB30-2276	System/34	15X
Administration	Student Records School Administration	5726-E31	3095	151								.GH30-0410	System/34	11X
Administration	3680 Store Systems Administration	5735-D62	504	13								48.GH20-5608	SPPS II & PSS_HOST	15A

Keywords - Alphabetic Sequence

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Codes Explained in Appendix B

Keyword	Program Title	Number	OTC	ILC	MLC	DSO	DSI	DSH	MLP	MML	Mo	MoreInfo	Environment	TPLS
-Administrative	Administrative Support Implementation	5608-AX1	220										Displaywriter	01C
-Administrative	Administrative Control System	5798-NMT	3465		315							12.GB30-1318	System/36	15H
-Administrative	DPPX Automated Administrative Activities	5798-DHC	1070									.GB21-3077	DPPX	15X
-Administrative	OFFICE/38 Administrative Mgmt	5714-NP1	1500			1320						GC21-7951	System/38	15E
-Administrative	3600 4700 Administrative Applications	5748-F55	1368		41							GH20-2414	IMS/VS, CICS/VS	15B
Administrative	5520 Administrative Processing Prog 3.2	5611-SS2	10500		445							GC23-0702	5520 Admin. System	15A
Admissions	Admissions for Colleges & Universities	5796-PXA	6820									.G320-9194	System/38	15H
-Admissions	College Business Sys Student Records	5796-RQF	7150									.GB30-2181	System/36	15X
ADRS	ADRS II Business Graphics Feature	5796-PLW/02	1940		108							.G320-6668	4697,4688	11E
ADRS	Info Center/1	5668-897	22000		1390	18000		1040				.GH20-0338	VM,MVS	15E
ADRS	QBE to ADRS II Bridge Feature	5796-PLM/01	1190		67							.G320-6097	4696,4687	11E
ADRS-II	A Departmental Reporting System II	5796-PLM	3490		196							.G320-6097	VSAPL	11X
-ADRS-II	ADRS-II Introduction	5798-DFC	1385		105							.GB21-2780	IIS, IIPS	1EH
ADRS/PC	A Departmental Reporting System	6428-092	355									.GH20-0023	PC	05X
ADRS/PC export	API Data Interface	6410-978	355									.G520-3917	PC,XT+8087+6024-077	05H
ADS	PCS ADS Crossreference	5796-AYP	4950									.G320-6342	5796-BCE	15X
ADS	PCS ADS Data Dictionary Interface	5796-BTR	2475									.G320-9150	5740-XXF,5746-XXC	15X
ADS	RPS Audio Distribution System	5719-U20	12700		480							0580-0363	5719-PC5,-PL4	15E
ADS	RPS Audio Distribution System Version 2	5719-U21	15200	1850	1015							G520-1060	Series/14PL/I	15H
ADS	RPS ADS Additional Languages (per each)	5719-U21/02	1560		70							4000,5000		15H
ADS	RPS ADS Version 2 Upgrade from Version 1	5719-U21/01	2675											15H
ADT/PBAR	Hospital Information System	5727-AB1	16500		750							.5B30-7016	System/36	15H
-Adults	Career Guidance System- Adults / College	5796-AYC			250							24.G320-6176	5796-AYA	15H
Adv	4700 Finance System - Adv Branch Control	5799-BQY	800										OS/VS,VSE+5668-969	15E
Advanced	Advance Earned Income Credit Interfaces	5798-NYQ	575									.GB30-1395	System/36, System/32	15H
Advanced	Advanced Banking Terminal Support 3600	5796-PTJ	165									.G320-9147	5796-AXZ	15X
Advanced	Advanced Control System - Host ACS	5799-BEJ	247800		22530							12.GH20-2464	VS1,5799-AHE	25E
Advanced	Advanced Control System ACS	5799-BEN	20070		1825							12.GH20-2464	Series/1+5799-BEJ	25E
Advanced	Advanced Data Communication for Stores	5735-XR2	5455		248							.GH20-2188	DOS/VSE, OS/VS	15E
Advanced	Advanced Functions	5746-XE2	2472		219	1836		164	60	96		GC33-6106	DOS/VS	15C
+Advanced	Advanced Interactive Executive tm	5669-061	3400									GC23-0784	RT	05H
Advanced	Advanced Netware tm / PCN	6406-009	1595									GB30-2037	PC,XT,AT	05Y
Advanced	Advanced Netware tm / C	6406-010	1595									GB30-2037	PC,XT,AT	05Y
+Advanced	Advanced NetWare tm/86 2.0a	6476-230	1595									GB30-2037	PC,XT,AT,3270-PC,jsy	05Y
Advanced	Advanced Printer Functions 5224	5714-UT2	1200			1056						GC21-7971	System/38+5224/5225	15A
+Advanced	Advanced Program-to-Program Communicatns	5732-025	8000									GX34-1000	5732-028+5732-010	15H
+Advanced	Advanced Program to Program Communicatn	6467-038	150										PC,PPC,XT,AT+adapter	05M
-Advanced	Advanced Statistical Analysis	5796-PBH			1350							24.G320-8063	OS/MFT/MVT/VS	21H
Advanced	Advanced Text Management System III	5740-XYL	25410		1155							.GH20-2404	CICS/OS/VS	25B
Advanced	Advanced Text Management System III	5746-XXU	12470		567							.GH20-2404	CICS/DOS/VS	25E
Advanced	ACP Advanced Communication Function	5748-T12/01		8025	3075							GH20-6200	2111,6081	25B
Advanced	APT Advanced Contouring Release 4	5740-M53			1185							GH20-1423	OS/VS,XT/370	15E
Advanced	APT Advanced Contouring XT/370 Feat	5740-M55/01	1500		75								3013,3014	05C
+Advanced	CATIA (R) Advanced Surfaces 2.2	5668-831		1410	470			993	331				CATIA Base	15E
Advanced	DI/I Advanced Programming Course II	5798-DJE	2860									.GB21-2937	IIS, IIPS	1EX
Advanced	EDX Advanced Remote Job Entry	5719-RJ1	1050		66							GC34-0458	S/1+MVS,VM,DOS/VSE	15X
Advanced	GIS/VS Advanced Query Feature	5740-XX7/01			419			314	28	45		GH20-9035	6012	25K
+Advanced	IPDS Advanced Function	5799-CGK	300										System/36	15A
+Advanced	IPDS Advanced Functions	5799-CGL	150										System/36	05E
-Advanced	Numerical Geometry System - Advanced	5785-EAJ	29040		1385							24.GB21-2608	5785-EAH	15H

Keyword	Program Title	Number	OTC	ILC	MLC	DSO	DSI	DSM	MLP	MML	No	MoreInfo	Environment	TPLS
Advanced	RPS Advanced Remote Job Entry	5719-RJ6	1050									GC34-0459	Series/1	1SX
-Advanced	Statistics Library - Advanced	5796-PJT	2795									.6320-5811	V5APL	1IH
-Advanced	Textpack 6 - Advanced Functions	5608-TR6	865									6544-2187	Displaywriter 320K	0SE
Advanced	4700 Advanced Branch Controller Version2	5799-BZE	1200										4700 Host Support	1SE
Advanced	5224 / 5225 Advanced Printer Function	5727-AP1	700						615			GC21-7981	System/36	1SX
Advanced	5224 / 5225 Advanced Printer Function	5799-BFN	525									GC21-7922	System/36	1SE
Advanced	5224/5225 Advanced Printer Function	5727-AP6	280						210			G580-0570	System/36 PC	0SH
Adventures	Adventures in Math (Feature 4112)	6024-112	39									G520-3917	PC,PCjr,XT	0SZ
Adventures	The Combined Adventures with Numbers	6276-609	40										PC,XT,jr,PPC,AT	0SR
+Adviser	Business Adviser - General Accounting	6466-988	995										XT,AT,LAN,TokenRing	10SG
+Adviser	Business Adviser - Accounts Payable	6466-989	995										6466-988	10SG
+Adviser	Business Adviser - Accounts Receivable	6466-990	995										6466-988	10SG
+Adviser	Business Adviser - Payroll	6466-991	995										6466-988	10SG
+Adviser	Business Adviser - Network Extension	6466-992	245										LAN or TokenRing	10SG
+Adviser	Business Adviser - Inventory Control Edi	6466-993	995										LAN or TokenRing	10SG
+Adviser	Business Adviser - Order Entry Edition	6466-994	995										LAN or TokenRing	10SG
+Adviser	Business Adviser - Information Mgt Editi	6466-995	525										LAN or TokenRing	10SG
Adviser	Personal Decision Series - Adviser	6410-941	65										Data Edition	0SG
-AEF	Application Enabling Facility	5798-DBF	2790									.6821-2551	VM/CMS	1SC
+Aeromathics	Aeromathics	6276-582	20										PC,XT,AT,PCjr,3270PC	0SR
AF/MRP	Master Production Schedule Planning	5668-898	31500			1380						.6H30-0737	C1C5+C0B0L+IMS,DL/I	1SE
+AFP	Print Services Access Facility/VM	5664-312	3770			145						G544-3415	VM+3800/3820	2SM
Agency	Insurance Agency System	6024-065	2500									G520-3917	PC	0SE
-Agency	RPS Life Agency System - Common Base	5710-RTK	880			40						.6B30-2424	Series/1	1SX
-Agency	Travel Agency Management and Accounting	5796-ZEY	11000			500						.6B30-2305	Sys/23 Datamaster	1SH
Agency-undwrtr	Insurance Communication Service	7798-IC5	nc										Information Network	N0SC
AHA	AHA Medical Device Database	7798-HDD	nc										Information Network	N0SC
+AI	Golden Common LISP (R)	6205-279	495									.6B30-2037	PC,XT,AT	0SY
+Aid/VM	Page Printer Formatting Aid/VM	5664-199	2730			105						G520-4000	VM+3800/3820	2SM
AIDS-SE-032	C1C5/V5 Trace Transform Version 2	5799-WXD	nc										C1C5/V5	N0SC
AIDS-SE-034	Cache Analysis Aid Version 4 - 3880	5799-WXA	nc										MVS	N0SE
AIF/PSS	PSS Application Installation Facility	5658-997	nc									GC30-3060	MVS+ISPF+BTAM,VTAM	N0SC
Airline	Airline Control Program ACP	5799-WKG	nc									GE20-0423	V51-V52 (Off Line)	N0SX
-Airline Reserva	Travel Agency Management and Accounting	5796-ZEY	11000			500						.6B30-2305	Sys/23 Datamaster	1SH
Airlines	EDX Communications Facility - Airlines	5798-ZZE	1210			55						24.6B30-1550	Series/1	1SX
+AIX	AIX Virtual Resource Manager	5669-060	1000									GC23-0784	RT	0SH
+AIX tm	Advanced Interactive Executive tm	5669-061	3400									GC23-0784	RT	0SH
+Algebra	Algebra Drills	6276-598	20										PC,XT,PCjr,AT,3270PC	0SR
Algebra	Algebra Tutor	6276-529	30										PrivTutor or 6276602	0SR
Algebra	Preparing for Geometry and Algebra	6024-307	55									G520-1107	PC,PCjr,XT,AT,PPC	0SZ
All	All Items File Translation Facility	3694 5798-RFJ	1210			110						12.6B30-1645	System/34+5748-F53	1SX
All	All Items File Translation Facility	3694 5798-RQM	1650									.6B30-2238	S/36+5748-F53	1SX
-All Points Addr	3800 Page Mode - Text and Image Merge	5798-DPK	5500			250						.6320-9185	MVS	1SX
+Allen-B	Allen-B PLC-2 Ladder Up/Downline Loading	5793-ACX/01	350										Industrial PC	0SY
+Allen-Bradley	Allen-Bradley PLC-2 Ladder Logic Documen	5793-ACX	2500										Industrial PC	0SY
+Allen-Bradley	Allen-Bradley PLC-2 Wiring Diag Generatr	5793-ACX/02	500										Industrial PC	0SY
+Allen-Bradley	Allen-Bradley PLC-2 Draffec	5793-ACX/03	950										Industrial PC	0SY
+Allen-Bradley	Allen-Bradley PLC-3 Ladder Logic Documen	5793-AGC	2500										Industrial PC	0SY
+Allen-Bradley	Allen-Bradley PLC-3 Wiring Diag Generatr	5793-AGC/01	500										Industrial PC	0SY
+Allen-Bradley	Allen-Bradley PLC-3 Draffec	5793-AGC/02	950										Industrial PC	0SY

Keyword	Program Title	Number	OTC	ILC	MLC	DSO	DSI	DSH	MLP	MML	Mo	MoreInfo	Environment	TPLS
+Allen-Bradley	Allen-Bradley PLC-2 Offline Programming	5793-AHH	1250										Industrial PC	05Y
+Allen-Bradley	Allen-Bradley 1774PLC Ladder Logic Docum	5793-AHC	1250										Industrial PC	05Y
Allen-Bradley	CAMM Allen-Bradley Controller Offline	5793-AEY/05	500										6509	05Y
Allen-Bradley	CAMM Allen-Bradley Controller Online	5793-AEY/11	1750									GB30-2037	6513	05Y
Allen-Bradley	EDX to Allen-Bradley (R) Controllers	5719-THC	5000									GC34-0099	5719-CF1	15H
Alley	Alley Cat tm	6276-621	25										PC,XT,Jr,PPC	05R
Allocation	Consumer Goods System - Allocation	5734-XP4/02	3980		181							.GH20-4410	05/MFT/MVT/VS1/VS2	11C
Allocation	Consumer Goods System - Allocation	5736-DS1	3980		181							.GH20-0721	D05, D05/VS	11C
Allocation	Funds Allocation System	5796-PYZ	27000									.G320-9222	MPSX+PL/I Transients	25H
Allocation	INFOREM II Allocation	5798-DDT	13550		616						24.	GB21-2695	05/VS, D05/VSE	15H
Allocation	Resource Allocation Processor Feature	5734-XP4/02	7875		358							.GH20-0855	6020,6202	01B
Allocation	Resource Allocation Processor Feature	5740-XP1/01	3980		181							.GH19-1055	6003,6219	11B
Allocation	Resource Allocation Processor Feature	5746-XP1/01	3980		181							.GH19-1055	6004,6148	11B
Alpha	Alpha Search Inquiry System	5736-N14	6375		303							.GH20-1188	C1CS/05/ D05/VS, CMS	15C
-Alpha	Alpha Search Inquiry - IMS Interface	5798-AHB	8105		737							12.	GB21-0987 DS	11H
-Alpha	Alpha Search Inquiry Sys Online Update	5798-CFJ	4840		440							12.	GB21-1677 C1CS/ D05/05/VS, CMS	15H
Alpha	Display Information Alpha Search	5714-XR1	3410		119	2560		89				.GH30-0145	System/38	11D
-Alter	Universal Dump, Alter, Copy, & Select	5796-BAF	50									12.	G320-6405 05/VS	15H
-Alumni	Alumni Information System	5796-BCN		1500	500							24.	G320-6656 C1CS/VS, DL/I	15X
-Alumni	Alumni Information System	5796-BCZ		1500	500							24.	G320-6656 C1CS/VS, DL/I	15X
AME	OFFICE/38 Applications Made Easy	5714-XE1	4400									.GB30-1952	System/38	15X
AMG	4700 AMG Upgrade from 5799-BQZ	5668-934/01	13500										4712	15K
AMG	4700 AMG Upgrade from 5799-BZD	5668-934/02	10500										4713	15K
Anal	Distributors Mgt Accty - Sales Anal	5727-D44	3685		214	2765						.GH30-0696	CACS	15B
Analogic	CAMM Analogic tm Controller Offline	5793-AEY/06	500										6510	05Y
Analogic	CAMM Analogic Controller Online	5793-AEY/12	1750									GB30-2037	6514	05Y
Analytical	CAMM DSE Analytical Mod, Std Graphics	5793-AEY/01	500									GB30-2037	6505	05Y
Analytical	CAMM DSE Analytical Mod, Enhanced Graphi	5793-AEY/02	950									GB30-2037	6506	05Y
-Analyzer	APL Workspace Structure Analyzer	5796-PNB	2055		187							12.	G320-6170 VSAPL	15H
Analyzer	Business Analyzer	6187-294	395										PC	05Y
Analyzer	C1CS Performance Analyzer II	5798-CFP	2100		83							.GB21-1862	C1CS/VS	15E
+Analyzer	FORTRAN VS Execution Analyzer	5796-BXJ	12500									6126-0159	MVS, AA/VS FORTRAN	15H
-Analyzer	Print Load Analyzer	5798-CXY	1085		99							12.	GB21-2355 05/VS	11H
Analyzer	Problem Statement Language and Analyzer	5796-BDX	49500									.G320-2719	VM, VM	15H
Analyzer	System A - An Application Analyzer	5785-GCC	16940		770							.G320-9233	MVS, VM	15H
Andrew	Andrew Tobias' Managing Your Money	6187-279	199									.GB30-2037	PC,XT,AT,PCjr	05Y
Animation	Animation Creation (Feature 4082)	6024-082	45									0520-3917	PC,PCjr,XT	05Z
ANMP	Account Network Management Program	5798-DAT	5880		267							.GB21-2521	C1CS/ D05/VS	11X
Annual	Bus Mgt Extended Support Annual Subscrpt	6410-950/01	225									12.	GH30-9017 See Program Descriptn.	05G
Annual	Pers DS Extended Support Annual Subscrip	6316-971/01	125									12.	See Program Descriptn.	05G
Annual	Pers DS Extended Support Annual Subscrip	6316-972/01	125									12.	See Program Descriptn.	05G
Annual	Pers DS Extended Support Annual Subscrpt	6410-936/01	125									12.	See Program Descriptn	05G
ANS 68 or 74	TRANSLATOR Burroughs (R) COBOL 1800-1900	5796-PXY	46200									.G320-9204	MVS+ISPF	05H
ANS/68	COBOL ANS/68	5799-AWR										GC21-7784	System/34	15X
ANSI	FORTRAN 77 Professional ANSI ComptLibr	6024-200	649									90	5520-1107 8087/80287+D05 2.1+	05Z
ANSI '77	Digital Research FORTRAN 77 tm	6871-437	350									.GB20-2057	PC,ST,3270-PC	05Y
ANSI metafile	Graphical File System	6024-205	189									0520-1107	Graphics/Prof CRT	05Z
ANSI/IEEE-488	General Purpose Interface Bus Adapter	6024-201	89									0520-1107	GP1B+DOS2+	05Z
ANSI/488A-1980	General Purpose Interface Bus Adapter	6024-201	89									0520-1107	GP1B+DOS2+	05Z
+Answer	dBASE tm / Answer	6205-238	550									GB20-2037	Answer/DB 5798-PMG	05H

Keyword	Program Title	Number	OTC	ILC	MLC	DSO	DSI	DSH	MHP	MHL	Mo	MoreInfo	Environment	TPLS
+Answer	Lotus tm / Answer	6205-239	550										GB20-2037 Answer/DB 5798-DWG	05H
+Answer/DB	Answer/DB (R) for PC Products	5798-DWG	35000										GH20-9244 CICS/OS or IBM/DC	15H
+Answer/DB	Answer/DB (R) for PC Products	5798-DWG/01	20000										GH20-9244 CICS/VSE	15H
ANSYS	CAEDS (R) Graphics System	5796-BBZ	49700	3275	1655	34790	23001100						GE20-0771 MVS.VM+3250/5080	15E
ANSYS tm	CAEDS (R) System Analysis	5796-BEP	45790	4815	1605	33740	31501050						GE20-0771 MVS.VM+5080/3250+GAM	15E
Anything	I Can Be Anything	6024-304	50										G520-1107 PC,PCjr,XT,AT,PPC	05Z
-AP/MP	3033 AP/MP Operator Training	5798-DFA	1385										.GB21-2769 IIS,IIPS	1EH
APAR search	Information/Access Version 1	5665-950		3300	362		2475	270	28	45			.GC34-2096 V2 of INFO/SYS & MGT	15K
APAX	System A - An Application Analyzer	5785-GCC	16940				770						.G320-9233 MVS.VM	15H
APF/36	5224 / 5225 Advanced Printer Function	5727-AP1	700			615							GC21-7981 System/36	15X
API	Voice Communications API Reference	6280-743	149										PC,XT,AT+VoiceComOpt	05Z
APL	See yellow pages 4-84 ff.	0000-012	nc											N05C
-APL/DI	APL/DI File Create Using PL/I	5796-PKP	1020		93						12.G320-6066	5796-PJZ,-PKA,-PKB	15H	
APL/DI	Info Center/1	5668-897	22000		1390	18000	1040						.GH20-0398.VM,MVS	15E
APL/DI II	APL Data Interface - Version II	5796-PNG	10740		356								.G320-6348 VM/CMS with VSAPL	15X
APL/DI II	APL Data Interface II for TSO	5796-PNJ	8915		338								.G320-6415 TSO	15X
APLDI/PC	APL Data Interface	6410-978	355										.G520-3917 PC,XT+0807+6024-077	05H
APL2	APL2 for XT/370, AT/370	5668-899/01	735		49								3020,3021	05Z
APL2	APL2 Fonts (Source or Object)	5771-ADB	160										PSF+3800/20/3812	21E
APL2	APL2 Release 2	5668-899	14000	4170	695	12600	3126	521	37	59			GH20-9214 VM, MVS,XA	15K
APL2 5668-899	A Programming Language - APL	5748-AP1			386			289	41	66			GH20-9064 Replaced by 5668-899	15K
-APP	IMS Application Productivity Package	5785-CZG	3410										GB21-5027 MVS/TSO,VM/CMS	15X
Apparel	ACS On-Line / IPCS Integration	5796-ZHK	3300										GB30-2258 System/36	15X
Apparel	ACS On-Line System tm	5796-ZFG	49500										GB30-2258 System/36	15X
Apparel	Integrated Production Control System	5796-ZFH	19250										GB30-2261 System/36	15X
+APPC	Advanced Program to Program Communicatn	6467-038	150										PC,PPC,XT,AT+adapter	05H
+APPC	APPC Multiple LU Support	5799-WYK	nc										System/36 5364	N05E
+APPC	APPC Multiple LU Support	5799-WYL	nc										System/36	N15A
-APPLES	Automated Project Planning & Evaluation	5796-AZR	968	88							12.G320-6399	MVS.DOS/VS,VM/CMS	Displaywriter	01C
-Applicant	Applicant Processing Implementation	5608-AZ2	220										Admin. System	15X
-Applicant	Applicant Processing	5798-RRC	434										.G320-9160 5520	25K
Applicatn	Network Problem Determination Applicatn	5664-190		1350	225		1010	169	20	32			GC23-0108 VM	15X
Applicatn	VTAM Node Control Applicatn Source Code	5785-ECE/01	nc										GB21-3052 6000,6001	N15X
+Applicatns	Multiple Applicatns from a Single Screen	5785-EDH	3000		365								G320-9511 VTAM+MVS	15H
+Applix	Applix tm IA	5669-100	1995										SV21-8085 RT AIX	05Z
Appln devt	PCS ADS Crossreference	5796-AYP	4950										G320-6342 5796-BCE	15X
Appln devt	PCS ADS Data Dictionary Interface	5796-BTR	2475										G320-9150 5740-XXF,5746-XXC	15X
Appln devt	PCS-ADS Application Execution System 2.0	5796-BCE	16500		589								G320-6651.05,005+CICS+DL/I	15E
Appln devt	PCS-ADS Application Preparation Sys 1.1	5796-BCF	13650		487								G320-6651.05,005+CICS+DL/I	15E
Appoint	Personal Decision Series - Appoint Clnr	6410-946	75										Data Edition	05X
-Appointment	Online Appointment System	5796-NZP			258								12.GB30-1440 System/34	15H
-Appointments	Calendar Management System	5798-NZB	3815		347								12.GB30-1401 System/34	15H
Apshai	Temple of Apshai (R)	6085-990	40										GB30-2037 PC	05Y
APT	APT Advanced Contouring Release 4	5740-M53			1185								GH20-1423 OS/VS,XT/370	15E
APT	APT Advanced Contouring XT/370 Feat	5740-M53/01	1500		75								3013,3014	05C
APT	APT Intermediate Contouring	5740-M52			713								GH20-1424 OS/VS	15E
APT	APT Intermediate Contouring XT/370	5740-M52/01	1000		50								3011,3012	05C
APT	CADAM (R) APT Interface	5796-ATE	23900	4305	430	15660	2460	246						15E
APT	CADAM (R) APT Source Geometry	5796-BDT	21000	1605	535	14000	1065	353					OS/VS+GAM	15E
APT Cutter Loca	Graphical Display and Query Facility 1.3	5668-905	20000	1365	955								MVS.VM+GDDM+3270	15E

Keywords - Alphabetic Sequence

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Codes Explained in Appendix B



Keyword	Program Title	Number	OTC	ILC	MLC	DSO	DSI	DSH	MLP	MML	Mo	MoreInfo	Environment	TPLS
APT geometry	Graphical Display and Query Facility 1.3	5668-905	20000	1365	455								MVS,VM+GDDM+3270	15E
APT Interface	CADAM (R) Express - Base	5664-286	126000	8560	3315								GH20-6487 5750-VME	15E
APT-AC	APT Advanced Contouring Release 4	5740-M55			1185								GH20-1423 05/V5,XT/370	15E
-APT-AC	Numerical Geometry System APT-AC Bridge	5785-EAM	7260		330							24.	GB21-2608 5785-EAM	15H
APT-IC	APT Intermediate Contouring	5740-M52			713								GH20-1928 05/V5	15E
AR	Business Management Series AR Training	6410-961	95										Accounts Receivable	05G
Arabic	6670 Fonts Library	5799-BGK	25										MVS	05C
Arcade	FriendlyWare (R) PC Arcade	6871-361	49										.GB30-2037 PC	05Y
Arcade games	39Rocky's Boots	6024-099	50										0520-1107 PC,XT,PCjr,AT+color	05Z
Archit	CICS Application Development Archit V2	5796-PWJ	12100										.G320-9168 CICS	15H
Architect/Engr	Timberline Architect/Engineer	6871-516	2800										.GB20-2037 PC,XT,AT	05Y
Architects	7361 Fastdraft System	5719-GP1		1070	160						36		GC34-0513 7361+3101+3251	25X
Architectural	CADAM (R) Design/Build/Manage	5668-853	20000	1765	535	13400	1185	395					5796-ATA,ATB,PTH	15E
Architecture	EDX Systems Network Architecture	5719-SX1	2005	75									SC34-0402 Series/1	15X
Architecture	EDX Systems Network Architecture RJE	5719-SX2	1000	34									SC34-0402 Series/1	15X
+Architecture	EDX Systems Network Architecture Ver 2.0	5719-XX9	2500	180									SC34-0773 Series/1	15M
Architecture	Information System Model & Architecture	5785-FBA	14300	650									.G320-9235 MVS,VM	15H
*Architecture	MVS/Extended Architecture Offering 1985	7798-XAD	nc										non-MVS	N25K
+Architecture	Primary Systems Network Architecture	5732-028	4500										GX34-1000 5732-027	15M
+Architecture	Secondary Systems Network Architecture	5732-029	5500										GX34-1000 5732-027	15M
+Architecture	Systems Network Architecture Interface	5732-027	3000										GX34-1000 System/88	15M
Archive	Check Proc Archive Retrieval & Suspense	5796-BTM	8800										.G320-9155 05/V5	15H
Archive	Source Archive	5798-RFD	378										.GB30-1630 System/38	15X
Archiving	SPMQL with Auditing and Archiving	5798-CFT/01	1575		70								.GB21-1696 6005,6050	15E
+Area	Bus Mat Series Local Area Network Access	6410-965	245										.G580-2802 PC Network	05G
Area	Link Pack Area Optimizer	5798-DKP	1650										.GB21-3010 MVS	15H
Area	Local Area Network PrintManager	6317-042	800										0520-5102 PC Network, OMNINET	05H
Area	Measurement Process: Distance & Area	6024-470	75										0520-1107 PC,XT,AT,PCjr+color	05Z
Area	Metric V - Area Density Measurements	6871-520	49										.GB30-2037 PC,XT,PCjr	05Y
Area	MVS Link Pack Area Optimizer Extensions	5798-DRD	1705										.G320-9206 MVS	15H
+Area	PC Local Area Network Program 1.1	6280-083	125										G227-6002 PC,XT,AT	05Z
+Area	System/36 Local Area Network Communicatn	5727-LC1	925		75	8143							S/36+AT in a T-R net	15A
+Area	System/36 PC Local Area Network Communic	5727-LC6	695			521							5364+AT in a TRN	15M
-Area	VSAM Control Area Freespace Map Utility	5796-AYX	1185										.G320-6346 05/V5	15H
Arithmetic	Arithmetic Games Set 1	6024-024	60										0520-3917 PC,PCjr	05Z
Arithmetic	Arithmetic Games Set 2	6024-025	60										0520-3917 PC,PCjr	05Z
Arithmetic	CPS Commercial Arithmetic	5799-TBD	48		2								24 SC34-1566 Series/1	15C
Arithmetic	High Accuracy Arithmetic Subroutine Libr	5665-337	6000										GC33-6163 MVS,XA+5748-F03	15E
Arithmetic	High-Accuracy Arithmetic Subroutine Libr	5664-185	2500										GC33-6163 VM+5748-F03,5748-LM3	15E
Arithmetic	High-Accuracy Arithmetic FORTRAN Subrout	5664-185/01	150										3002 XT/370+VM/PC	05C
Arithmetic	High-Accuracy Arithmetic FORTRAN Subrout	5666-320	2500										GC33-6163 VSE+5748-F03	15E
ARJE	EDX Advanced Remote Job Entry	3719-RJ1	1050		66								GC34-0458 S/1+MVS,VM,DS05/VSE	15X
ARJE	RPS Advanced Remote Job Entry	3719-RJ6	1050		36								GC34-0459 Series/1	15X
Array	CMS/Extended Data Array Capability 1.1	5798-DWA	23000										.S20-6958 VM/XA Migration Aid	25H
-ARS Interface	Travel Agency Management and Accounting	5796-ZEY	11000	500									.GB30-2305 Sys/23 Datanaster	15H
Art	Panel 2 Line Art Program	5796-PPA	2065	94									24.G320-6420 VM/370,05/V5	15H
+ArtificialIntell	Expert System Consultation Environment	5798-DXA	25000	1250									.G325-0040 MVS	25H
+ArtificialIntell	Expert System Development Environment	5798-DXB	35000	1750									.G325-0040 MVS Consultation env	25H
ArtificialIntell	INTELLECT tm	5796-PWA	42000	2245									.G320-9161 .VSE+5748-XXJ+PL/I	25X
ArtificialIntell	LISP	5798-PQZ	7150	325									.G320-0349 VM	25H

Keyword	Program Title	Number	OTC	ILC	MLC	DSQ	DSI	DSM	MLP	HML	Mo	MoreInfo	Environment	TPLS
Artist	Vidiotex-Graphic Artist facility	6317-012	2500									6320-9394	Vidiotex (on PC)	05H
ASCII	dBASE II (R)	6086-009	495									.6B30-2037	PC,3270-PC	05Y
ASCII	EDX Yale ASCII Communication Sys II	5796-RKJ		407	137							24.6B30-1901	Series/1	1SX
ASCII	Yale ASCII Communications - Host Loaded	5798-RRJ	4070									.6B30-2317	VM to EDX to 4994	1SX
ASCII	Yale ASCII Terminal Communications	5796-RBT	3450		157							24.6B30-1509	Series/1	1SH
ASCII II	Graphics Terminal Emulator	6024-206	319									6520-1107	PC,XT,PPC,AT+DOS2.1+	0SZ
ASHMM	AHA Medical Device Database	7798-MDD	nc										Information Network	NOSC
ASIS	Alpha Search Inquiry System	5736-N14	6375		303							.GH20-1188	CICS/05/DOS/VS,CMS	1SC
Assembler	Assembler & Macro Processor	5726-AS1	4000		165	3000		124				GC21-7840	System/34	1SX
Assembler	Assembler and Macro Processor	5727-AS1	4800		273	4220						GC21-7893	System/36	1SX
Assembler	Assembler and Macro Processor	5727-AS6	1920			1440						6580-0570	System/36 PC	05H
Assembler	Assembler H - Version 2	5668-962		465	155		348	116	7	11		GC26-4035	05/VS,MVS/XA,VM/SP	1SK
Assembler	Assembler H XT/370	5668-962/01	432		9							3002,3011		05C
Assembler	Assembler Prompter	5734-CP2	1200		29							GC33-4038	T50	1SC
*Assembler	Assembler 2 5.25" diskette	5669-068	495									CS05 2 9000		05X
*Assembler	Assembler 2 8" diskette	5669-068/01	495									4516		05X
Assembler	D05 / Virtual Storage Extended	5745-030	nc									GC33-6108	S/370,4300,303x,3083	N05J
Assembler	DPPX Assembler	5760-AS1	2300		88	1955		75	18	29		GC27-0411	DPFX	1SK
Assembler	EDX Macro Assembler	5719-ASA	888		22								Series/1	1SC
*Assembler	Macro Assembler Version 2	6024-193	189									6520-1107	PC,PCjr,XT,PPC,AT	0SZ
*Assembler	Macro Assembler	6280-077	189										3.5" drive	05G
Assembler	Operating System Extensions on 8" Disk	6089-579	155									GC22-9199	C59000	05H
Assembler	Operating System Extensions on 5.25"Disk	6092-497	155									GC22-9199	C59000	05H
Assembler	Structured Assembler Translator	6276-550	35									PC,XT,jr,AT,3270-PC		05R
Assembler	Waterloo and MATCOM Languages	5793-AAP	4950									.6B30-2339	D05	05F
Assembly	Assembly Language	5708-AS1	1750		55	1310		41				OC21-7801	5280 Data System	1SX
Assessing	Assessing Personal Management Skills	6871-527	88										PC	05Y
Assessment	Dues Assessment - Trade Assn	5796-ZJA	3850									.6B30-2352	5796-ZHZ	1SX
Assessment	Membership Dues Assessment	5796-ZJF	3850									.6B30-2401	5796-ZJE	05X
Asset	Fixed Asset Accounting & Control	5798-NQF			161							12.6B30-1156	System/34	1SH
-Asset	Fixed Asset Accounting & Control	5798-RJG	2640									.6B30-1790	Replaced by 5798-RWT	1SX
-Asset	Fixed Asset Accounting & Control II	5798-RJH	2310									.6B30-1787	System/34	1SX
Asset	Fixed Asset Accounting & Control System	5798-RPH	2750									.6B30-2221	System/36	1SX
*Asset	Fixed Asset Accounting and Control System	5798-RHT	2800									.6B30-6010	System/38	1SH
*Asset	Fixed Asset Acctg - Upgr from 5798-RJG	5798-RHT/01	600									.6B30-6010	4408, 9049	1SH
Asset	Personal Decision Series - Asset Catalog	6410-943	75										Data Edition	05X
Asset	School - Fixed Asset Inventory System	5796-Z0B	3940									.6B30-2268	5796-ZFY	1SH
+Assets	SOLMON III tm Fixed Assets	5669-095	995									SV21-8041	General Ledger	05Z
-Assignment	Cashier Assignment System	5798-CKQ	5025		275							12.6B21-1921	D05/VS	11H
Assistance	California Medical Assistance Program	5798-RGD/01	440									.6B30-1699	6035	1SX
+Assistant	Acctg Assistant Series - General Acctg	6317-049	595										PC,XT,AT	05Z
+Assistant	Acctg Assistant Series - Accounts Payabl	6317-050	595										PC,XT,AT	05Z
+Assistant	Acctg Assistant Series - A/R and Billing	6317-051	595										PC,XT,AT	05Z
+Assistant	Acctg Assistant Series - Inventory Contr	6317-052	595										PC,XT,AT	05Z
+Assistant	Acctg Assistant Series - Inv Ctl & Purch	6317-053	595										PC,XT,ATk	05Z
+Assistant	Acctg Assistant Series - Job Costing	6317-054	595										PC,XT,AT	05Z
+Assistant	Acctg Assistant Series - General Acctg	6467-003	595										3.5" disk	05Z
+Assistant	Acctg Assistant Series - Accounts Payabl	6467-004	595										3.5" disk	05Z
+Assistant	Acctg Assistant Series - A/R and Billing	6467-006	595										3.5" disk	05Z
+Assistant	Acctg Assistant Series - Inv Ctl & Purch	6467-007	595										3.5" disk	05Z

Keywords - Alphabetic Sequence

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Codes Explained in Appendix B

Keyword	Program Title	Number	OTC	ILC	MLC	DSO	DSI	DSM	MLP	MML	Mo	MoreInfo	Environment	TPLS
+Assistant	Acctg Assistant Series - Job Costing	6467-008	595										3.5" disk	0SZ
Assistant	Assistant Home Solutions	6024-150	69									.G520-3917	PC,XT,PCjr,PPC	0SZ
Assistant	Document Retrieval Assistant	6024-306	149									.G520-1107	PC, PCjr, XT, AT, PPC	0SZ
Assistant	Drawing Assistant	6024-089	169									.G520-1107	PC, PCjr, XT, AT+color	0SZ
Assistant	Filing Assistant	6024-145	162									.G320-3917	PC, XT, PCjr, PPC	0SZ
Assistant	Graphing Assistant	6024-147	165									.G320-3917	PC, XT, PCjr, PPC	0SZ
+Assistant	Mainframe Communication Assistant	6024-651	199										PC, XT, AT, PCjr	0SZ
+Assistant	Mainframe Communication Assistant	6024-652	199										3.5" drive	0SZ
Assistant	Planning Assistant Solutions	6024-135	99									.G520-1107	PC, PCjr, XT, AT, PPC	0SZ
Assistant	Planning Assistant	6024-148	165									.G520-1107	PC, XT, PCjr, PPC	0SZ
Assistant	Reporting Assistant	6024-146	145									.G520-3917	PC, XT, PCjr, PPC	0SZ
Assistant	Voice/Phone Assistant	6280-741	149										PC, XT, AT+VoiceComDpt	0SZ
Assistant	Writing Assistant	6024-144	165									.G520-3917	PC, XT, PCjr, PPC	0SZ
Assisted	Computer Assisted Training 1.2	5710-CAT	990									.GB30-2253	System/36, S/36 PC	1SH
Assn	Dues Assessment - Trade Assn	5796-ZJA	3850									.GB30-2352	5796-ZHZ	1SX
Assn	Fund Raising/Development - Trade Assn	5796-ZJB	3300									.GB30-2352	5796-ZHZ	1SH
Assn	Membership Data Base - Trade Assn	5796-ZHZ	7700									.BG30-2352	System/36	1SX
Assn	Special Events - Trade Assn	5796-ZJD	3300									.GB30-2352	5796-ZHZ	1SX
Assn	Subscription Fulfillment Trade Assn	5796-ZJC	3850									.BG30-2352	5796-ZHZ	1SX
Association	Association Management	5798-RNX	550									.GB30-2245	Displaywriter	1SX
Association	Membership Data Base	5796-ZJE	7700									.GB30-2401	System/36	1SX
Associations	Membership and Mailing List System	5726-K11	2950					132				.GH30-0454	System/34	11C
-Asst	Mainframe Comm Asst 1.05 Upgr from 1.0	6024-649	85										6024140	21H
-ASTAP	Advanced Statistical Analysis	5796-PBH						1350				24.G320-8063	OS/MFT/MWT/V5	0SZ
Asynch comm sup	Cluster Program - Five Pack	6026-182	439									.G520-3917	PC, PCjr, PPC, XT	0SZ
-Asynchronous	Asynchronous Communications	5608-SR1	260									0544-0851	Displaywriter	05C
-Asynchronous	Asynchronous Communications	5715-AC1	600									GC34-0430	Sys/23 Datamaster	11X
-Asynchronous	Asynchronous Communication Support	6024-032	65									0520-3917	PC	0SZ
+Asynchronous	Asynchronous Server for Token & PC Netwk	1642-003	495										Token-Ring NETBIOS	0SZ
Asynchronous	Insurance Communication Service	7798-1CS	nc										Information Network	N05C
+AT	AT Co-processor Services	5669-057	550									SV21-8028	AIX tm on RT	05H
+AT/GX	3270-PC AT/GX 3277GA Emulator	6476-047	1000										3270-PC AT/GX	05H
ATI	ATI (R) Training for VisiCalc (R)	6071-282	75									GB30-2037	PC	05Y
Atmosphere	Moisture in the Atmosphere	6024-124	55									0520-1107	PC, XT, PCjr, PPC+DOS2+	0SZ
-ATMS	ATMS II Multiple Fonts for the 3800	5798-CRH	2110					192				12.GB21-2184	OS/V5+ICCS/V5	15H
ATMS	ATMS III Formatter	5740-XYL/01	11990									.GH20-2404	6137,6237	25B
ATMS	ATMS III Formatter	5746-XXU/01	11990									.GH20-2404	6104,6158,6105	25B
ATMS	DCF Foreground - CMS T50 ATMS III	5748-XX9/01				180	60					.GH20-9158	6043,2107	15E
-ATMS	STAIRS to ATMS Transfer Extended	5798-DEE	1265					115				12.GB21-2731	ICCS/05-D05/V5	15H
ATMS III	Advanced Text Management System III	5740-XYL	25410					1155				.GH20-2404	ICCS/05/V5	25B
ATMS III	Advanced Text Management System III	5746-XXU	12470					567				.GH20-2404	ICCS/D05/V5	25B
Attach	Displaywriter/PC Attach Convenience Kit	6403-728	495									0544-2280	Textpack4+6024107	05E
+Attach	Print Services/Fac - 3820 Comm Attach	5664-198/01	4000			200	3000	150				0544-3415	4789,4790,6586,6597	23M
+Attach	Print Services/Fac - 3800 Chan Attach	5664-198/02	13375			510	10031	383				0544-3415	4788,4787,6549,6560	23M
Attach	PSF/MVS 3800 Channel Attach Feature	5665-275/01	13375			510	10030	385					2151,6150	25K
Attach	PSF/MVS 3820 Communication Attach Feat	5665-275/02	4000			200	3000	150					2161,6160	25K
Attach	PSF/VSE 3820 Communication Attach Feat	5666-319/01	4000			200	3000	150					2155,6037	25K
Attach	5520 Attach Kit V3 (Feat 2896) Incl 289	6403-724	875									0520-3917	All except PCjr	05C
Attach	5520 Attach Version 3 (Feature 2895)	6403-725	384									0520-3917	All except PCjr	05C
Attach	5520 PC Attach Installation Kit	7033-703/01	893									0570-2026	2890	05Z

Keyword	Program Title	Number	OTC	ILC	MLC	DSO	DSI	DSM	NLP	MNL	Mo	MoreInfo	Environment	TPLS
Attached	Waterloo PC Network Channel Attached	5793-AAN/01	nc									.GB30-2411	2001	N0SF
-Attached	3270 Attached Work Station	5608-SR9	600									G544-2207	Displaywriter	05E
Attachment	EDX System/370 Channel Attachment	5719-CX1	2820		112							SC34-1701	Series/1	15E
+Attachment	Graphics Attachment 3277GA, 5080	5799-AXX	4000									GH20-2146	VM/CMS,MVS/TSO	15E
Attachment	System/370 Channel Attachment	5719-CA1	1305		35							GC34-0217	Series/1	13X
Attachment	3277 APL Graphics Attachment Support	5799-AXH	2835		103							.GH20-2146	VSAPL-CMS,TSO,VSPC	15E
-Attachment	3277 Graphics Attachment Storage Tube	5798-DAG	616		56							12.GB21-2503	MVS,MVS/XA,VM/CMS	15H
-Attachment	3277 Graphics Attachment Plotter Tablet	5798-DCE	561		51							12.GB21-2598	TSO,VM 85799-AXX/-W	15H
Attachment	5218 Printer Attachment Convenience Pac	6113-651	220									G570-2063	PC,XT	05Z
Attachment	5520 Personal Computer Attachment Ver 2	6109-558	284									G520-2045	PC,XT	05E
Attachment	5520 Personal Computer Attachment Ver 1	7033-703	164									G570-2026	PC	05Z
+Attachment/370+Attachment/370+		6317-047	300									.GH30-0760	PC,XT,AT,3270-PC/AT	05G
+Attachment/370+Attachment/370+ Upgrade from 6316971		6467-046	101									.GH30-0760	Attach 370 Edition	05G
Attachmt/MVS	Personal Decision Series - Attachmt/MVS	5665-336	22000			1000						.GH30-9028	VTAMHNCPI5PF4PC,XT	15E
-Attachmt/370	Personal Decision Series - Attachmt/370	6316-971	219									.GH30-0760	Upgrade to 6467046	05G
Attack!	SAT Word Attack! Data Disk	6187-238	20										PC	05Y
ATTACK!	WORD ATTACK! tm	6871-442	49									.GB30-2037	PC,XT,PCjr	15Y
-Attendance	EDX Time, Attendance and Scheduling Syst	5796-RNL	2300									.GB30-2098	Series/1	15X
+Attendance	Registration, Attendance & Grading	5796-TCJ	6750									.G320-9506	System/36	15I
Attendance	School - Student Attendance System	5796-ZGC	3960									.GB30-2268	5796-ZFZ	15H
Attendance	Student Attendance Management System	5796-ZNH	3600									.GB30-6002	Student Mgt System	15H
Attny	Info Syst for Attny - Controller System	5793-ADR	175									.GB30-6000	System/36 PC	05H
Attny	Info Syst for Attny - Client/Matter Recd	5793-ADT	500									.GB30-6000	Controller	05H
Attny	Info Syst for Attny - Conflict Interest	5793-ADM	750									.GB30-6000	Client/Matter Record	05H
Attny	Info Syst for Attny - Stat Dates (Docket)	5793-ADX	750									.GB30-6000	Client/Matter Record	05H
Attny	Info Syst for Attny - Client Statements	5793-ADY	100									.GB30-6000	Client Finance Mgt	05H
Attny	Info Syst for Attny - Accts Rec & Collac	5793-ADZ	200									.GB30-6000	Client Finance Mgt	05H
Attny	Info Syst for Attny - Lawyer Finance Mgt	5793-AEA	750									.GB30-6000	Client Finance Mgt	05H
Attny	Info Syst for Attny - Law Firm Finance	5793-AEB	1000									.GB30-6000	Controller System	05H
Attny	Info Syst for Attny - Client Finance Mat	5793-AED	2250									.GB30-6000	Controller System	05H
Attny	Info Syst for Attny - Upgr from 5793-ADR	5793-AEF/01	20									.GB30-6001	4501	05H
Attny	Info Syst for Attny - Client/Matter Recd	5793-AEG	1375									.GB30-6001	Client Finance Mgt	05H
Attny	Info Syst for Attny - Upgr from 5793-ADT	5793-AEG/01	925										4517	05H
Attny	Info Syst for Attny - Conflict Interest	5793-AEH	2275									.GB30-6001	Client/Matter Record	05H
Attny	Info Syst for Attny - Upgr from 5793-ADM	5793-AEH/01	1600									.GB30-6001	4515	05H
Attny	Info Syst for Attny - Stat Dates (Docket)	5793-AEJ	2275									.GB30-6001	Client/Matter Record	05H
Attny	Info Syst for Attny - Upgr from 5793-ADX	5793-AEJ/01	1600									.GB30-6001	4513	05H
Attny	Info Syst for Attny - Client Statements	5793-AEK	250									.GB30-6001	Finance Mgt	05H
Attny	Info Syst for Attny - Upgr from 5793-ADY	5793-AEK/01	160									.GB30-6001	4511	05H
Attny	Info Syst for Attny - Accts Rec & Coll	5793-AEL	575									.GB30-6001	Lawyer Finance Mgt	05H
Attny	Info Syst for Attny - Upgr from 5793-ADZ	5793-AEL/01	395									.GB30-6001	4509	05H
Attny	Info Syst for Attny - Lawyer Finan Mgt	5793-AEN	2290									.GB30-6001	Contrlr+Client Fin	05H
Attny	Info Syst for Attny - Upgr from 5793-AEA	5793-AEN/01	1615									.GB30-6001	4507	05H
Attny	Info Syst for Attny - Law Firm Finance	5793-AEP	2860									.GB30-6001	Contrlr+Client Fin	05H
Attny	Info Syst for Attny - Upgr from 5793-AEB	5793-AEP/01	1960									.GB30-6001	4505	05H
Attny	Info Syst for Attny - Client Finance Mgt	5793-AEQ	6400									.GB30-6001	Controller	05H
Attny	Info Syst for Attny - Upgr from 5793-AED	5793-AEQ/01	4375									.GB30-6001	4503	05H
Attny	Info Syst for Attny - Litigation Support	5793-AER	2850									.GB30-6001	Controller	05H
Attny	Info Syst for Attny - Library Management	5793-AET	2850									.GB30-6001	Controller	05H
Attny	Info Syst for Attny - Research/Retrieval	5793-AEH	2850									.GB30-6001	Controller	05H

Keyword	Program Title	Number	QTC	ILC	MLC	DSO	DSI	DSM	HLP	HML	Ho	MoreInfo	Environment	TPLS
Attnys	Info Sys for Attnys Upgr from 5793-AFZ	5793-AFX/01	2100										4535	05H
Attnys	Info Sys for Attnys Upgr from 5793-AGA	5793-AFY/01	1600										4533	05X
Attorney	Accounts Receivable and Collection	5793-ABD	968									.GB30-2151	5793-AAZ+ABZ	05X
Attorney	Attorney Info Sys - Controller System	5793-ABZ	192									.GB30-2151	System/36	05X
Attorney	Attorney Practice - Statutory Dates	5793-ABF	3850									.GB30-2160	5793-ABL+ABZ	05X
Attorney	Attorney Practice - Research & Retrieval	5793-ABG	6270									.GB30-2160	5793-ABZ	05X
Attorney	Attorney Practice - Conflict of Interest	5793-ABH	3850									.GB30-2160	5793-ABL+ABZ	05X
Attorney	Client Files, Conflict & Dates System	6187-249	450									.GB30-2037	XT,AT	05Y
Attorney	Client Financial Management	5793-AAZ	10830									.GB30-2151	5793-ABZ	05X
Attorney	Client Statements	5793-ABE	423									.GB30-2151	5793-AAZ+ABZ	05X
Attorney	Client/Matter Record Management	5793-ABL	2320									.GB30-2166	5793-ABZ	05X
Attorney	Disbursements from Displaywriter	5793-ABR	2200									.GB30-2170	5793-AAZ+ABZ	05X
Attorney	Disbursements from Copier/Postage	5793-ABX	2200									.GB30-2170	5793-AAZ+ABZ	05X
Attorney	Law Firm Financial Management	5793-ABA	4800									.GB30-2151	5793-ABZ	05X
Attorney	Law Firm Library Management	5793-ABJ	6270									.GB30-2160	5793-ABZ	05X
Attorney	Lawyer Financial Management	5793-ABB	3870									.GB30-2151	5793-AAZ+ABZ	05X
Attorney	Litigation Support	5793-ABK	6270									.GB30-2160	5793-ABZ	05X
Attorney	Office Sys - Disbursements from Phone	5793-ABY	2200									.GB30-2170	5793-AAZ+ABZ	05X
Attorney	Office System - Financial Schedules	5793-ABN	2640									.GB30-2166	5793-ABZ	05X
Attorney	Office System - Mailings	5793-ABP	1760									.GB30-2166	5793-ABZ	05X
Attorney	Office System - Time From Displaywriter	5793-ABQ	2200									.GB20-2170	5798-AAZ+ABZ	05X
Attorney	Office System - Time from OCR	5793-ABM	2200									.GB30-2170	5793-AAZ+ABZ	05X
Attorneys	Accts Receivable Collections Series 800	5793-ACL	740									.GB30-2415	S/36+5793ACH+ABZ	05H
Attorneys	Attorneys Info System 5247 Disk Support	5796-ZBH/01	450									.GB30-2029	3022	1IX
Attorneys	Client Financial Management Series 800	5793-ACH	4950									.GB30-2415	System/36+5793-ABZ	05H
Attorneys	Client Statements Series 800	5793-ACN	220									.GB30-2415	S/36+5793ACH+ABZ	05H
Attorneys	Client/Matter Records Mgt Series 800	5793-ACR	1100									.GB30-2415	S/36+5793ABZ	05H
Attorneys	Conflict of Interest Series 800	5793-ACQ	1650									.GB30-2415	S/36+5793ACL+ABZ	05H
Attorneys	Info Sys for Attorneys - Accts Payable	5793-AFX	3500									.GB30-6012	5793-ABA	05H
Attorneys	Info Sys for Attorneys - Accts Payable	5793-AFY	2275									.GB30-6011	5793-AEF	05H
Attorneys	Info Sys for Attorneys - Accts Payable	5793-AFZ	1750									.GB30-6012	5793-ACJ	05H
Attorneys	Info Sys for Attorneys - Accts Payable	5793-AGA	750									.GB30-6011	5793-AEB	05H
Attorneys	Info Syst for Attorneys - Controller Sys	5793-AEF	175									.GB30-6001	System/36 PC	05H
Attorneys	Law Firm Financial Management Series 800	5793-ACJ	2200									.GB30-2415	System/36+5793-ABZ	05H
Attorneys	Lawyer Financial Management Series 800	5793-ACK	1650									.GB30-2415	S/36+5793ACH+ABZ	05H
Attorneys	RPS Audio Distribution System	5793-ACP	1650									.GB30-2415	S/36+5793ABZ+ACR	05H
Audio	RPS Audio Distribution System	5719-U20	12700					480				.G580-0363	5719-PCS-,P14	1SE
Audio	RPS Audio Distribution System Version 2	5719-U21	15200	1850	1015							.G520-1060	Series/1+PL/I	1SH
Audio	Touch-Tone - Audio Support	5798-MXX						201				.G320-1350	Series/1	1SH
Audit	Source Compare Audit Utility	5796-PIZ	2640					100				.G320-6163	V51 VM/CMS MVS	1IH
Auditing	SPMOL with Auditing and Archiving	5798-CFT/01	1575					70				.GB21-1696	6005,6050	1SE
Augmented	Augmented Phone Services	6280-740	149										PC,XT,AT+VoiceComOpt	05Z
Authoring	Instructional System - Authoring	6428-072	575									.G320-0441	PC,XT,AT	05X
Authoring	Interactive Instructional Authoring	5668-011	16170				529					.GH20-0008	VM,IMS,CICS+TCAMVTAM	2EB
+Authoring	Multipurpose Authoring Language	6276-585	100										PC,XT,AT,PCjr,3270PC	05R
+Authoring	Personal Teaching Aid - Authoring	5726-PT1/01	1200									.G580-0534	6025	1SX
+Authorization	Credit / Check Authorization	5798-DEM					7875	3015				.G320-2748	MVS,DOS/VSE,CICS/V5	1SX
+Auto	Auto Dealer - Accounting	5796-ZMX	13600									.GB30-6013	System/36	1SH
+Auto	Auto Dealer - Contract Preparation	5796-ZPD	3550									.GB30-6013	System/36	1SH
+Auto	Auto Dealer - Customer Follow-up	5796-ZPE	3000									.GB30-6013	System/36	1SH

Keyword	Program Title	Number	OTC	ILC	MLC	DSO	DSI	DSM	HLP	HML	Mo	MoreInfo	Environment	TPLS
+Auto	Auto Dealer - Leasing	5796-ZPB	5300										.GB30-6013.System/36	15H
+Auto	Auto Dealer - Management Reports	5796-ZPC	4300										.GB30-6013.System/36	15H
+Auto	Auto Dealer - Parts Invoicing	5796-ZNY	5500										.GB30-6013.System/36	15H
+Auto	Auto Dealer - Parts Inventory	5796-ZNZ	11800										.GB30-6013.System/36	15H
+Auto	Auto Dealer - Service Merchandising	5796-ZPA	8600										.GB30-6013.System/36	15H
+Auto	Auto Dealer - Traffic Control	5796-ZPF	1200										.GB30-6013.System/36	15H
+Auto	Auto Dealer - Vehicle Control	5796-ZPG	8600										.GB30-6013.System/36	15H
+Auto	Auto Dealer Acctg, Upgr from 5796-ZGX	5796-ZNX/01	1875										.GB30-6013.System/36	15H
+Auto	Auto Dealer, Cont Prep, Upg from 5796ZHD	5796-ZPD/01	50										.GB30-6013.System/36	15H
+Auto	Auto Dealer, Cust, Upg from 5796-ZHE	5796-ZPE/01	50										.GB30-6013.System/36	15H
+Auto	Auto Dealer, Leasing, Upg from 5796-ZHB	5796-ZPB/01	50										.GB30-6013.System/36	15H
+Auto	Auto Dealer, Mgt Rpt, Upg from 5796-ZHC	5796-ZPC/01	50										.GB30-6013.System/36	15H
+Auto	Auto Dealer, Parts Inv, Upg from 5796ZGY	5796-ZNY/01	1100										.GB30-6013.System/36	15H
+Auto	Auto Dealer, Parts Inv, Upg from 5796ZGZ	5796-ZNZ/01	1690										.GB30-6013.System/36	15H
+Auto	Auto Dealer, Service, Upg from 5796-ZHA	5796-ZPA/01	50										.GB30-6013.System/36	15H
+Auto	Auto Dealer, Traffic, Upg from 5796-ZHF	5796-ZPF/01	50										.GB30-6013.System/36	15H
+Auto	Auto Dealer, Veh Ctl, Upg from 5796-ZHG	5796-ZPG/01	50										.GB30-6013.System/36	15H
Auto	Auto Dealership Mgmt - Accounting	5796-ZEJ	11000										.GB30-2107 System/34	15X
Auto	Auto Response	5799-BFA	nc										System/34	NO5X
Auto	Plant Auto Comm Sys/Mod Transfer Facilit	5798-BRH	1900										.G320-0836 MVS+VTAM+EDX on S/1	15H
Auto	RPG II Auto Report Feature	5736-RGI/01	750			26							GC21-5052 4513,4515	13C
Auto-Answer	DPPX SDLC Auto-Answer	5799-BDE				27							8100/DPPX	15B
Auto-Call	CPS Auto-Call Interface	5799-TBC	144			6			20				24 GC34-1552 Series/1	15C
-Autocoder	Autocoder to COBOL Conversion Aid Progrm	5798-CNH	1230										.GB21-2022 VM/CMS	0IH
-Automated	Automated Event Control	5798-DBQ	660			60							12.GB21-2561 CICS/VS	15H
Automated	Automated Information Management	5798-DRA	1265										.G320-9215 System/36	15H
Automated	Automated Information Management	6410-974	429										.G320-9214 PC,XT,PPC+colorDOS2+	0SH
-Automated	Automated Project Planning & Evaluation	5796-AZR	968			88							12.G320-6399 MVS, DOS/VS, VM/CMS	15H
Automated	Automated Response Line Call Handlg	5798-RRG	5500			250							.G320-9172 System/34	15X
Automated	Automated Teller Host Enhancements	5796-BBH				1050							12.G320-6428 DOS/VS, CICS/VS	15H
Automated	Automated Teller Host Support	5796-BBJ				2235							12.G320-6428 CICS/DOS/VS	15H
-Automated	Automated Teller System	5798-DHK				540	207						12.GB21-2909 3600 4700	15X
Automated	DPCX Automated Administration Activities	5798-DHB	1030										.GB21-2889 DPCX	15X
Automated	DPPX Automated Administrative Activities	5798-DHC	1070										.GB21-3077 DPPX	15X
-Automated	ICCF Automated Library Manager	5798-DJR	363										.GB21-2956 DOS/VSE	15X
+Automatic	SSP Automatic PTF Distribution	5727-SS1/11	285										4973	15E
Automatic	SSP Automatic PTF Distribution	5727-SS6/06	155										0580-0570 4798	05H
Automation	EDX General Purpose Automation Executive	5798-RCZ	6300			287							24.GB30-1565 Series/1	15H
-Automation	EDX Laboratory Automation	5798-RHB	3960			300							12.GB30-1688 Series/1	15X
Automation	Plant Automation Communication System	5798-DRX	8800			400							.G320-9245 EDX Communic Facil	15H
Automation	Plant Automation Communic - Sourcecode	5798-DRX/01	660			30							. 3000,3046	15H
-Automation	Tape Automation - Production Environment	5798-DOB	2520										.GB21-2828 DOS/VSE	15H
Automation	Tape Automation for Production VSE	5798-DRY	2200										.G320-0835 VSE	25H
Automotive	Automotive Release/Shipping Control Syst	5796-ZKA	17600										.GB30-2480 System/36	15H
Availability	4730 Availability Mat-Batch Reporting	5668-873	14000			995	12600			44	70		.GC31-0523 VSE, OS/VS+COBOL	15K
Avant	4250 ITC Avant Garde Gothic tm	5771-AAA	640										G520-0004 CDPF (5668-997)	11E
BACIS/FIS	Financial Information System Online	5798-CYB	10390			409							.GB21-2367 DOS/VS/VSE+5798-CYC	15X
BACIS/FIS	Financial Information System	5798-CYC	24880			984							.GB21-2364 DOS/VS/VSE	15X
Backgammon	Backgammon	6276-502	20										PC,XT,PPC,jr,3270-PC	05R
Backup	EDX Data Backup with Compression	5798-RCH	275										.GB30-1555 Series/1	15X

Keywords - Alphabetic Sequence

3-14

Codes Explained in Appendix B

Keyword	Program Title	Number	OTC	ILC	MLC	DSO	DSI	DSM	HLP	MML	Mo	MoreInfo	Environment	TPLS
Backup	VSE VSAM Fast Backup Restore Feature	5746-AM2/02			33			30	7	11		GC24-5190	6091,6506	15K
Backup	VSE/SP VSAM Backup Restore Feature	5666-316/05	441		31	397		28						1S
Backup/Restore	VSE/SP VSAM Backup/Restore Feature	5799-BNB/06	384		28	346		25					4930,4963	15K
Backup/Restore	VSE/SP VSAM Backup/Restore Feature	5799-BNC/06	441		33	397							4941,4987	15K
Balance	Financial-Status P&L Balance Sheet Rel3	5668-968	5100		232							GH20-2467	C1CS+IMS+PL/I	15B
	P&L and Balance Sheet Release 3	5746-F53	4375	199								GH12-5120	C1CS+PL/I+PL/I	15E
+BANCStar	BANCStar tm 4700 Account Opening	6430-784	750										PC,XT,AT+4700	05E
+BANCStar	BANCStar tm 4700 Mortgage Loan	6430-785	1995										PC,XT,AT+4700	05E
+BANCStar	BANCStar tm 4700 Consumer/Consumer Loan	6430-786	1995										PC,XT,AT+4700	05E
+BANCStar	BANCStar 4700 Generator	6430-788	4500										PC,XT,AT+4700	05E
+BANCStar	BANCStar 4700 Mtg.Consumer/Consumer Loan	6430-787	2995										PC,XT,AT+4700	05E
Bank	Bank Teller Ap - Commercial Extensions	5796-AZX	1580									G320-6396	3600	15H
Bank	Commercial Bank System Base Support	5746-F60			508							GH20-2497	D0S/VSE and CIF/V5	15X
Bank	Commercial Bank Demand Deposit Accountng	5746-F61			418							GH20-2497	D0S/VSE+CBAS Base	15X
Bank	Commercial Bank Savings Accounting	5746-F62			378							GH20-2497	D0S/VSE+CBAS Base	15X
Bank	Commercial Bank Time Deposit Certificate	5746-F63			292							GH20-2497	D0S/VSE+CBAS Base	15X
Bank	Commercial Bank General Ledger Accounting	5746-F64			269							GH20-2497	D0S/VSE+CBAS Base	15X
Bank	Commercial Bank System Revolving Credit	5746-F65			212							GH20-2497	D0S/VSE+CBAS Base	15X
Bank	Commercial Bank Club Accounting	5746-F66			618	238						GH20-2497	D0S/VSE+CBAS Base	15X
Bank	Commercial Bank Installment Loan	5746-F67			979	374						GH20-2497	D0S/VSE+CBAS Base	15X
Bank	Commercial Bank Commercial Loan Acctg	5746-F68			1615	618						GH20-2497	D0S/VSE+CBAS Base	15X
Banking	Advanced Banking Terminal Support 3600	5796-PTJ	165									G320-9147	5796-AZX	15X
Banking	Banking Administration	5798-DTK	550									G320-0363	Displaywriter	15X
Banking	Customer Information File Banking	5726-F11	4000		210							G360-0050	System/34	11X
Banking	Demand Deposit Accounting Banking	5726-F12	3600		188							G360-0050	System/34	11X
Banking	DPFX Mortgage Banking System	5798-DWN	6225		566						12	GB21-2691	DPFX/BASE	15H
Banking	Installment Loan Accounting Banking	5726-F14	4100		213							G360-0050	System/34	11X
Banking	Savings Accounting Banking	5726-F13	3550		184							G360-0050	System/34	11X
Banking	SSP Data Encryption Std for Banking	5727-SS1/06	200				175					GC21-9021	4512,4605	15A
Bar	Bar Chart	5799-BHQ	900									GC21-7953	System/38	15E
-Bar	Bar Code Print for MAPICS	5798-RHN	825	165								06.GB30-1706	System/34	15X
-Bar	Data Capture / Edit for Bar Code	5798-RHP	1815	165								12.GB30-1708	Series/1	15X
-Bar	Managing Appl Development - Bar Charter	5798-DMX	396									GB21-3082	05/V5,D0S/VSE	15X
Bar	3 of 9 Bar Code Print 3800-3	5798-DRM	3000									G320-9243	MVS,XA	25H
-Bar	3800 3-of-9 Bar Code Print	5798-DMH	3300									GB21-3048	05/V5	15X
Baseball	The World's Greatest Baseball Game tm	6276-620	25										PC,XT,Jr,PPC	05R
-Based	APL - Based Products Interfacing Course	5798-DHN	1305									GB21-2914	IIS, IIPS	1EX
*Based	Using EDX and EDL (Computer Based Trng)	7732-907	varies									SR20-8720	Series/1	V05C
Basic	Basic Number Concepts (Private Tutor)	6024-297	55									G520-1107	PC,PCjr,XT,AT,PPC	05Z
Basic	Basic System Extensions VM/RSE	5748-XX8			181			135	44	70		GC20-1828	VM	25X
Basic	Basic Telecommunications Access Method	5746-RC5			44			40	7	11		GC38-0292	D0S/VSE	15K
Basic	Beyond basic BASIC	6276-532	20										PrivTutor or 6276602	05R
Basic	CATIA (R) Basic 3D Design - Standalone	5668-828			1035							G320-6650	Replaced by 5668-761	T15E
Basic	DL/I Basic Programming Course II	5798-DGR	2860									GB21-2872	IIS, IIPS	1EX
Basic	EDX Basic Supervisor and Emulator Ver. 4	5719-X54	1900		141								Series/1	15X
Basic	EDX Basic Supervisor & Emul Ver 5.2	5719-X55	2200		158								Series/1	15H
Basic	Graphwriter tm Basic Set	6871-676	395									GB30-2037	PC,XT,3270-PC	05Y
-Basic	Numerical Geometry System - Basic	5785-EAH	33880	1540								24.GB21-2608	MVS	15H
Basic	05/V51 Basic Programming Extensions	5662-257			259			194	48	77		GC24-5218	05/V51+5740-AM6	15K
BASIC	See yellow pages 4-84 ff.	0000-D12	nc											N05C

Keyword	Program Title	Number	OTC	ILC	MLC	DSO	DSI	DSM	MLP	MNI	Me	MoreInfo	Environment	TPLS
-Basic	Virtual Basic Supervisor - Waterloo	5798-RBY	682									36.0830-1466	Series/1	15H
BASIC/MVS	BASIC/MVS Release 2	5665-948		4170	691			3126	521	42	67		GC26-4023 MVS	15K
BASIC/VM	BASIC/VM Release 2	5668-996	7000	1125	375	6300	843	281	38	61			GC26-4023 VM/SP	15K
BASICA	PCCravon tm (Feature 9290)	6871-480											.0830-2037 PC,XT,PCjr	05Y
Baskerville	4250 Monotype Baskerville tm	5771-ABR	640										0520-0004 CDPF (5668-997)	11E
Batch	Batch to S5X/VSE Conversion Aid	5785-KAJ	407										.G320-9191 S5X/VSE	15X
Batch	Batch Subsystem	5796-BCY	1100										.G320-6660 VM/CMS	15H
Batch	Batch SNA Communications	6428-147											.G320-9186 PC	05H
Batch	Batch Terminal Simulator	5668-948	9662	1030	394	7245	773	295	28	46			.0820-5522 IMS/V5 & TSO	15K
Batch	Batch Transfer Program	5744-CGI											GC33-5901 OS/V5/1	M0SC
Batch	Batch Transfer Program	5744-CG2	nc										GC33-5901 MVS	M0SC
Batch	Batch Transfer Program	5744-CHI	nc										GC33-5901 V5S	M0SC
Batch	Batch Transfer Program	5747-BHI	nc										GC33-5900 DOS/V5	M0SC
Batch	Communications Chain Facility - Batch	5798-RJK	275										.0830-1801 5280 Data System	15X
Batch	COPICS Bill Material Batch Utilities II	5785-GBC	2490		75								.0821-2640.DOS/VSE OS/V5 DL/I	15E
Batch	Dortmund Leuven Library System Batch	5787-FAH	13900		632								24.G320-6662 5787-DA	25X
Batch	Dortmund Leuven Library System Batch	5787-FAL	8820		401								24.G320-6662 5787-DAB	25X
Batch	S/3 to S/38 Batch Conversion Aid	5798-RBC	759										.0830-1504 System/38	05H
Batch	S/3 to S/38 Batch Conversion Aid	5798-RDK	715										.0830-1585 System/38	05H
Batch	TSO / JES2 Batch Display Facility II	5798-DMB	1650										.0821-3037 MVS	15X
Batch	UCC THO VSE to MVS Migration Aid	5796-PMH	69500										.G320-9190 VSE+MVS.XA	15H
-Batch	3760 Batch Data Transfer under CICS/V5	5798-CQB	2110		192								12.0821-2112 EXTM,TCAM,VTAM	15H
Be	I Can Be Anything	6024-304	50										0520-1107 PC,PCjr,XT,AT,PPC	05Z
+Bee	Bouncy Bee Learns Letters	6024-137	70										0520-1107 PC,XT,AT,PPC,PCjr	05Z
+Bee	Bouncy Bee Learns Words	6024-139	70										0520-1107 PC,XT,AT,PPC,PCjr	05Z
+Beginner's	APL Beginner's Course	5796-PPH	770										.G320-9140 IIS,IIPS	15X
+Beginners	Touch Typing for Beginners	6024-339	85										0520-1107 PC,XT,AT,PCjr+color	05Z
+Beginners	Touch Typing for Beginners	6024-363	385										0520-1107 PC,XT,AT,PCjr+color	05Z
Benefits	Government Reporting & Benefits Tracking	5746-AMI/01	5746	1275	262								.0820-2151 6080,4581,4601	25B
Berkley Shell	XENIX tm (Preinstalled on 1-side hardisk	6331-643	995										GC22-9248 System 9000	05E
Berolina	Monotype Old Eng Text & New Berolina tm	5771-ACY	3000										0520-0004 CDPF	15E
BEST	GOLF'S BEST tm	6187-241	50										PC	05Y
Beyond	Beyond basic BASIC	6276-532	20										PrivTutor or 6276602	05R
BGU	Business Graphics Utility	5714-GP1	2000		107	1760		94					GC09-1060 System/38	15E
BGU interface	Workstation Utilization Analysis	5798-RRX	495										.0820-0361 System/36	15X
-BICARSA	BICARSA Online	5798-RFR	5445		495								12.0830-1667 System/34	15X
Bid	Bid Day System	5710-RTZ	1650										.0830-2450 System/36	15H
Bill	COPICS Bill of Material Online II	5785-GBA	4725		142								.0821-2638.DOS/VSE OS/V5 DL/I	15E
Bill	COPICS Bill Material Batch Utilities II	5785-GBC	2490		75								.0821-2640.DOS/VSE OS/V5 DL/I	15E
Billboard	EDX Videotex System SVS/1	5799-TFN	13750										0520-3992 Series/1	15X
Billiards	Sports Trivia from Billiards to Baseball	6276-608	20										PC,XT,jr,AT,3270-PC	05R
Billing	Billing	5726-XB8	1700										.G280-0229 System/34	11X
Billing	Billing	5727-XB7	1980										.0830-2700 System/36	15B
Billing	Billing	6201-866	995										.5B30-3557 System/36 PC	05G
Billing	Billing - Disk	5715-XZ7	1790										.G280-0229 Sys/23 Datamaster	11X
Billing	Billing Distributors	5726-D4A	2585		134								.0830-0093 System/34	11X
Billing	Billing Distributors	5726-D41	3885		157	2910		118					.0830-0185 System/34	11X
Billing	Billing Food Distributors	5726-D45	2660		137								.0830-0156 System/34	11X
Billing	Billing Lumber Dealers	5726-D4E	2400		125								.0830-0166 System/34	11X
Billing	Billing Mgmt Info Multi Ind	5715-XX7	1225										.0830-2700 Sys/23 Datamaster	11X

Keywords - Alphabetic Sequence

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Codes Explained in Appendix B



Keyword	Program Title	Number	OTC	ILC	MLC	DSO	DSI	DSM	MLP	MML	Mo	MoreInfo	Environment	TPLS
Billing	Customer Service Billing Distribution	5714-D41	4985		173	3735		129				.GH30-0130	System/38	11X
Billing	Distribution Control - Billing	5793-AAJ	9570									.GB30-2064	5793-AAE	15X
Billing	Distribution Control - Billing	5793-ACE	9570		435							.GB30-2064	5793-ACA	15X
Billing	Distributors Mgt Acctg - Billing	5727-D41	4070		233	3050						.GH30-0690	C.ASS	15B
Billing	DMAS II Billing Enhance - Food Distrib	5798-NXY			207						12	.GB30-1340	System/34	15H
-Billing	DPCX Outpatient Billing System	5798-DCP	3200		291						12	.GB21-2626	DPCX	15H
Billing	Legal Billing	5798-RNG	550									.GB30-2095	Displaywriter	15X
Billing	Patient Billing Hospital	5726-H11	1555		82							.GH30-0404	System/34	11D
+Billing	Time & Material/Service Billing	5796-ZPK	3500									.GB30-6016	5727-M6X/M6A	15H
-Billing	Universal Billing - Site	5799-TDR	1875		84								5799-TDT	05C
-Billing	Universal Billing - Host	5799-TDT	4580		205								Series/1	05C
-Binary	Binary Synchronous Communication	5608-SR2	260									0544-0851	Displaywriter	05E
Binary	Binary Synchronous Communications	5715-BC1	850									GC14-0431	Sys/23 Datamaster	11X
Binary	CPS - Binary Synchronous Support	5799-TAF	120		5						24	SC14-1553	Series/1	15C
Binary	DisplayComm Binary Synchronous Communica	6024-187	409									6520-3917	PC,XT,PPC	05Z
Binary	3270 Binary Synchronous Emulation	6024-037	769									6520-3917	PC	05Z
Binding	Periodicals Control System Rel 4	5785-DDN	15795	2500	718						24	G520-6662	5787-DAA+FAJ+FAH	25H
Bingo	Writing to Read	6360-700	725									6520-1107	PCjr+Speech attachmt	05Z
Biol	Leaf Structure & Physiology (Biol Series	6024-318	65									6520-1107	PC,PCjr,XT,AT,PPC	05Z
Biol	Leaf Structure & Physiology (Biol Series	6024-388	295									6520-1107	PC,PCjr,XT,AT,PPC	05Z
Biolog Ser	Chemicals of Life I: Structure of Matter	6024-317	65									6520-1107	PC,PCjr,XT,AT,PPC	05Z
Biolog Ser	Human Life Processes I: Cellular Physiolo	6024-346	65									6520-1107	PC,PCjr,XT,AT,PPC	05Z
Biolog Ser	Modern Genetics: Chromosomes & Coding	6024-345	65									6520-1107	PC,PCjr,XT,AT,PPC	05Z
Biolog Ser	Passive Transport, Diffusion and Osmosis	6024-320	65									6520-1107	PC,PCjr,XT,AT,PPC	05Z
Biolog Ser	Pathology: Diseases and Defenses	6024-345	65									6520-1107	PC,PCjr,XT,AT,PPC	05Z
Biolog Ser	Plants: Growth & Specialization	6024-321	65									6520-1107	PC,PCjr,XT,AT,PPC	05Z
Biolog Series	Chemicals of Life II: Water, Carbo Lipid	6024-344	65									6520-1107	PC,PCjr,XT,AT,PPC	05Z
Biolog Series	Chemicals of Life II: Water, Carbo Lipid	6024-339	295									6520-1107	PC,PCjr,XT,AT,PPC	05Z
Biolog Series	Chemicals of Life I: Structure of Matter	6024-397	295									6520-1107	PC,PCjr,XT,AT,PPC	05Z
Biolog Series	Modern Genetics: Chromosomes & Coding	6024-395	295									6520-1107	PC,PCjr,XT,AT,PPC	05Z
Biolog Series	Passive Transport, Diffusion and Osmosis	6024-389	295									6520-1107	PC,PCjr,XT,AT,PPC	05Z
Biolog Series	Pathology: Diseases and Defenses	6024-390	295									6520-1107	PC,PCjr,XT,AT,PPC	05Z
Biolog Series	Plants: Growth & Specialization	6024-392	295									6520-1107	PC,PCjr,XT,AT,PPC	05Z
BiolSeries	Chemicals of Life II: Water, Carbo Lipid	6024-344	65									6520-1107	PC,PCjr,XT,AT,PPC	05Z
Bisync	3270 Bisync Pass-Through	5746-AM5	4755		217							.GH20-2403	B05/VSE+IGCS/VS	15X
-Bisynch	Displaywriter Bisynch Support to PROFS	5798-DKR	4250	472	172							.GB21-3016	VM/SP + RSCS	15X
Bisynch	DisplayComm Bisynch Communications V1.1	6024-210	409									6520-1107	PC,AT+B05 2.1 or 3.0	05Z
Bisynchronous	Insurance Communication Service	7798-ICS	nc										Information Network	N05C
+BIZPACK	UNIRAS tm BIZPACK	5669-115	2595										RASPAK/RASPAK SOLIDS	05Y
BL	BL Accounting Kit	6187-293	2995										PC	05Y
Blackjack	Blackjack	6276-503	20										PC,XT,PPC,PCjr	05R
Blaster!	Math Blaster! tm	6871-443	49									.GB30-2037	PC,XT,PCjr	05Y
-BLDL	BLDL Optimizer	5798-DKQ	1285									.GB21-3012	MVS	15X
BMAS	Accounts Payable Mgmt Info Multi Ind	5715-XX3	1225									.GB30-2744	Sys/23 Datamaster	11X
BMAS	Accounts Payable - Disk	5715-XX3	1790									.G280-0251	Sys/23 Datamaster	11X
BMAS	Accounts Payable	5726-XBC	1700									.G280-0251	System/34	11X
BMAS	Accounts Payable	5727-XB3	1980									.GB30-2744	System/36	15B
BMAS	Accounts Payable	6201-669	995									.S830-3533	System/36 PC	05D
BMAS	Accounts Receivable Mgmt Info Multi Ind	5715-XX4	1225									.GB30-2722	Sys/23 Datamaster	11X
BMAS	Accounts Receivable - Disk	5715-XX4	1790									.G280-0250	Sys/23 Datamaster	11X

Keyword	Program Title	Number	OTC	ILC	MLC	DSO	DSI	DSM	MLP	MML	Mo	MoreInfo	Environment	TPLS
BMAS	Accounts Receivable	5726-XBA	1700									.6280-0250	System/34	11X
BMAS	Accounts Receivable	5727-XB4	1980									.6830-2722	System/36	15B
BMAS	Accounts Receivable	6201-867	995									.5830-3517	System/36 PC	05G
BMAS	Billing	5726-XB8	1700									.6280-0229	System/34	11X
BMAS	Billing	5727-XB7	1980									.6830-2700	System/36	15B
BMAS	Billing	6201-866	995									.5830-3557	System/36 PC	05G
BMAS	Billing - Disk	5715-X27	1790									.6280-0229	Sys/23 Datamaster	11X
BMAS	Billing Mgmt Info Multi Ind	5715-XK7	1225									.6830-2700	Sys/23 Datamaster	11X
BMAS	General Ledger Mgmt Info Multi Ind	5715-XK2	1225									.6830-2733	Sys/23 Datamaster	11X
BMAS	General Ledger - Disk	5715-XZ2	1790									.6280-0232	Sys/23 Datamaster	11X
BMAS	General Ledger	5726-XB8	1700									.6280-0232	System/34	11X
BMAS	General Ledger	5727-XB2	1980									.6830-2733	System/36	15B
BMAS	General Ledger	6201-868	995									.5830-3525	System/36 PC	05G
BMAS	Inventory Accounting Mgmt Info Multi Ind	5715-XK6	1225									.6830-2711	Sys/23 Datamaster	11X
BMAS	Inventory Accounting - Disk	5715-XZ6	1790									.6280-0233	Sys/23 Datamaster	11X
BMAS	Inventory Accounting	5726-XB9	1700									.6280-0233	System/34	11X
BMAS	Inventory Accounting	5727-XB6	1980									.6830-2711	System/36	15B
BMAS	Inventory Accounting	6201-870	995									.5830-3541	System/36 PC	05G
BMAS	Payroll	5726-XBD	1700									.6280-0234	System/34	11X
BMAS	Payroll	5727-XB5	1980									.6830-2755	System/36	15B
BMAS	Payroll	6201-871	995									.5830-3549	System/36 PC	05G
BMAS	Payroll - Disk	5715-XZ5	1790									.6280-0234	Sys/23 Datamaster	11X
BMAS	Payroll Mgmt Info Multi Ind	5715-XX5	1225									.6830-2755	Sys/23 Datamaster	11X
Board	Circuit Board Design - Design Verify	5796-PRL	23400	2085	695	16380	1455	485						T1SE
Board	Circuit Board Design - Circuit Pack 4.1	5796-PRP	48600	8355	2785		5835	1945						T1SE
Bodoni	Monotype Bodoni Cyrillic tm	5771-ACR	3000											15E
Bodoni	4250 Monotype Bodoni tm	5771-AAC	640											11E
-Boldface	Boldface Print Program for the 3800	5798-CKR	1745		159						12	.6821-1942	OS/VS2	15H
BOM	Master Production Schedule Planning	5668-898	31500		1380									15E
-Bond	Bond Quote System	5796-AXY			185						12	.6320-6172	MVS/TSO	15H
Bond	PC Bond Release 2	5664-298	2000		135									25E
Bond	VM Bond Release 1	6317-007	125											05H
+Bond	VM Bond Release 2	6467-022	250											05M
+Bond	VM Bond Tech Coor Support Release 2	6467-043	400											05M
+Bond	VM Bond Upgrade Release 1 to 2	6467-044	175											05M
Bond	VM/PC Bond Technical Coordinator SuptPkg	6314-143	275											05H
Bonds	Computer Stocks and Bonds tm	6086-016	25											05Y
Book	D05 Tech Ref (Book) Upgr from 2.1 or 3.0	6279-935	65											01Z
Book	D05 Technical Reference (Book)	6024-213	109											01Z
Book	Get Set for Writing to Read - Book Set	6024-469	6											05Z
Book	Turtle Power Activity Book	6024-079	15											05Z
Books	Rocky's Books	6024-099	50											05Z
+Bouncy	Bouncy Bee Learns Letters	6024-137	70											05Z
+Bouncy	Bouncy Bee Learns Words	6024-139	70											05Z
Bourne shell	Interactive Executive for System/370	5667-126	10000						495	792				T2SK
Bourne shell	PC Interactive Executive	1753-369	989											05E
BPE	OS/VS1 Basic Programming Extensions	5662-257	625		259			194	48	77				15K
BPI	Accounts Receivable by BPI tm	6024-027	425											05Z
BPI	BPI (R) Accounts Payable	6187-163	595											05Y
BPI	BPI (R) Accounts Receivable	6187-164	595											05Y

Keyword	Program Title	Number	QTC	ILC	MLC	DSO	DSI	DSM	MLP	MML	Mo	MoreInfo	Environment	TPLS
BPI	BPI (R) Accounts Receivable	6187-211	50										PC	05Y
BPI	BPI (R) Accounts Payable	6871-210	50										PC	05Y
BPI	BPI (R) General Accounting	6187-165	595										PC	05Y
BPI	BPI (R) General Accounting	6187-212	50										PC	05Y
BPI	BPI (R) Information Management	6187-166	425										PC	05Y
BPI	BPI (R) Information Management	6187-213	50										PC	05Y
BPI	BPI (R) Inventory Control	6187-167	795										PC	05Y
BPI	BPI (R) Inventory Control	6187-214	50										PC	05Y
BPI	BPI (R) Job Cost	6187-168	795										PC	05Y
BPI	BPI (R) Job Cost	6187-215	50										PC	05Y
BPI	BPI (R) Payroll	6187-169	595										PC	05Y
BPI	BPI (R) Payroll	6187-216	50										PC	05Y
BPI	BPI (R) Upgrade Kit 195	6187-260	195										PC	05Y
BPI	BPI (R) Upgrade Kit 195	6187-261	295										PC	05Y
BPI	BPI Self Training Series - Accounts Paya	6187-256	70										PC	05Y
BPI	BPI Self Training Series - Accounts Rec	6187-257	70										PC	05Y
BPI	BPI Self Training Series - General Actgt	6187-258	70										PC	05Y
BPI	General Accounting by BPI tm	6024-026	425								.G520-3917		PC	05Z
BPI	Inventory Control by BPI tm	6024-030	425								.G520-3917		PC	05Z
BPI	Job Cost System by BPI tm	6024-029	550								.G520-3917		PC	05Z
BPI	Payroll by BPI (R)	6024-028	425								.G520-3917		PC	05Z
BRADS	Business Report Application Development	5726-BR1	1650								.GB30-2554	System/34		11X
BRADS	Business Report Applic Develop Syst	5727-BR1	2225								.GH30-2576	System/36		15B
BRADS	Business Report/Application Developm Sys	6201-872	1250								.G280-0237	System/36 PC		05G
BRADS III	Business Report Application Development	5715-RG2	1365								.G280-0237	Sys/23 Datanaster		11X
Braille	Braille Text	5798-DNC	2640								.GB21-3093	VM,MVS		15H
Branch	Branch Electronic Reports System - Host	5799-BNX	33000								SH17-5500	4700/MVS		15E
Branch	Branch Electronic Reports System - 4700	5799-BZN	220								SH17-5500	BERS Host		15E
Branch	4700 Advanced Branch Controller Version2	5799-BZE	1200									4700 Host Support		15E
Branch	4700 Finance System - Adv Branch Control	5799-BBQ	800									OS-/VS,VSExt+5668-769		15E
BRANCHBANKER	BRANCHBANKER tm 4700	6430-783	500								GB20-2037	PC AS (6934086)		05E
Break	Bridge Break 200	6276-605	25									PC,XT,jr,AT,PPC		05R
Bridge	Bridge Break 200	6276-605	25									PC,XT,jr,AT,PPC		05R
Bridge	Chained File DL/I Bridge	5748-XX3	14740			576					.GH12-5116	DOS-/VS,OS-/VS		15B
Bridge	Fastdraft Drawing Mat to MAPICS Bridge	5796-RRN	2350									System/34+7361		15X
Bridge	Financial Applications Bridge - Retail	5726-XA7	5400			188					24.GH30-0136	System/34		15E
-Bridge	ISAM to IMS/DB Bridge	5798-DBG	1815			165					12.GB21-2547	OS-/VS		15H
Bridge	Netware tm / Bridge	6404-011	395								GB30-2037	PCNetwork+PCCluster		05Y
+Bridge	NetWare tm Bridge 2.0a	6476-229	395								GB30-2037	PC,XT,AT,3270-PC		05Y
Bridge	QBE to ADRS II Bridge Feature	5796-PLN/01	1190			67					.G320-6897	4696,4687		11E
Bridge	StarProof Bridge	6276-536	15								PC,XT,jr,AT,3270-PC			05R
+Bridge	Token-Ring Network Bridge Program	6403-831	1695								GA27-3677	2 TR Nets+AT,AT-Ind		05M
+Bridge	Token-Ring Network Bridge Install Kit	6476-041	3285								GA27-3677	2 TR Nets+AT,AT-Ind		05M
BRLMASTR	Braille Text	5798-DNC	2640								.GB21-3093	VM,MVS		15H
-Broadcasters	Text Entry & Edit Facility	5798-RAR	3330			303					12.GB30-1470	Series/1		15X
BSC	BSC MULTIPPOINT (3770/3780)	5799-BFJ	nc											N05X
BSC	Non-SMA Interconnection to 3725 Ver 3.4	5668-951			1605	465		1440	419	43	68	GC33-2023	NCP Ver2+VTAM Ver2	25K
BSC	S.W.I.F.T. BSC EP Support	5799-AQT	3135			98						.SC19-5017	TCAM	15A
BSC	System/38 to VSE/PDWER RJE BSC	5798-RKB	4155		544	189						12.GB30-1873	System/38	15X
BSC	System/38 to 5320 Communication BSC	5796-PZJ	2475									.G320-9236	5714-SS1+5611-SS1	15H

Keyword	Program Title	Number	OTC	ILC	MLC	DSO	DSI	DSH	MLP	HML	Mo	MoreInfo	Environment	TPLS
BSC	3270 Device Emulation BSC	5799-BEZ											System/34	05X
BSC Display	DisplayComm Binary Synchronous Communica	6024-187	409									6520-3917	PC,XT,PPC	05Z
+BSD 4.2	Academic Information System 4.2	5799-CGZ	1715										RT	05C
BSEPP	Basic System Extensions VM/BSE	5748-XX8			181			135	44	70		GC20-1828	VM	25X
BSP	Information System Model & Architecture	5785-FBA	14300		650							G320-9235	MVS,VM	15H
BTAM SCP for BTAM-ES		5747-CB1	nc										DOS/VSE	N05J
BTAM	CICS to 3270-PC File Transfer Program	5798-DQH	660									.G320-0369	CICS+3270-PC CP	15H
BTAM-ES	Basic Telecommunications Access Method	5746-RC5			44			40	7	11		GC38-0292	DOS/VSE	15K
BTAM-ES	BTAM SCP for BTAM-ES	5747-C01	nc										DOS/VSE	N05J
BTAM-ES	VSE/SP BTAM-ES (Includes 5747-C01)	5666-316/09	592		42	535		38						15
BTAM-ES	VSE/SP BTAM-ES (Includes 5747-C01)	5799-BNB/11	514		38	463		34					4935,4971	15K
BTAM-ES	VSE/SP BTAM-ES (Includes 5747-C01)	5799-BNC/10	592		44	535							4946,4995	15K
BTAM/SP	BTAM/System Product	5665-279	5950			4663			13	21		GC27-0599	MVS,MVS/XA	25K
BTAM/System	BTAM/System Product	5665-279	5950			4663			13	21		GC27-0599	MVS,MVS/XA	25K
BTAP-CE	Bank Teller Ap - Commercial Extensions	5796-AZX	1580										G320-6396	3600
BTAP/CE	Advanced Banking Terminal Support 3600	5796-PTJ	165									.G320-9147	5796-AZX	15X
BTP	Batch Transfer Program	5744-CG1	nc									.GC33-5901	05/V51	N05C
BTP	Batch Transfer Program	5744-CG2	nc									GC33-5901	MVS	N05C
BTP	Batch Transfer Program	5744-CH1	nc									GC33-5901	SVS	N05C
BTP	Batch Transfer Program	5747-BM1	nc									GC33-5900	DOS/VS	N05C
BTS	Batch Terminal Simulator	5668-948	9662	1050	394	7245	773	295	28	46		.GH20-5522	IMS/V5 & TSO	15K
Budget	Dollars and \$ense tm	6871-482	180									.GB30-2037	PC,PCjr	05Y
Budget	Electronic Spreadsheet	5798-RRM	577									.GB30-2343	System/36	15X
Budget	Home Budget, jr (Feature 4130)	6024-130	45									6520-3917	PC,PCjr,XT	05Z
-Budget forecast	General Ledger & Financial Accia	5798-RFM	1815		165							12.0830-1673	System/34	15X
Budgeting	Public Budgeting & Accounting Appl Govt	5726-G21	12230			468	9175	350				.GH30-0229	System/34	11X
Budgeting/Account	Public Sector Budgeting/Accounting	5710-GA4	10890										System/36	15H
-Buffer	ACF/VTAM Buffer Selection Aid	5798-DHF	742									.GB21-2900	MVS,DOS/VSE	15X
Buffer	Phone Directory and Print Buffer On-Line	6276-523	35										PC,XT,jr,AT,PPC	05R
Buffer	Print Buffer On-Line	6276-521	20										PC,XT,jr,AT,3270-PC	05R
Build	Executive Phone Directory Build Your Own	6276-524	150										PC,XT,jr,AT,3270-PC	05R
Build/Display	CAMMGraph Build/Display Enhanced Graphi	5793-AEY/03	4600									GB30-2037	6507	05Y
Builder	Interactive Schematics Builder for ACS	5799-CAF	8800		400								5799-AHE and BEJ	05C
Builder	4730 Customization Image Builder Rel 2	5668-870	6000		535	5400						GC31-0029	SSX,VSE,V51,MVS,XA	15E
+Building	CATIA (R) Building Design	5668-741			400								CATIA BasetDraft 2.2	15E
Building	Vocabulary Building Skills (Priv Tutor)	6024-326	55									6520-1107	PC,PCjr,XT,AT,PPC	05Z
Bulk	Bulk Data Transfer	5796-PKK	1580		60							.G320-6060	05/V52	15H
Bumble	Bumble Games tm (Feature 4094)	6024-094	45									6520-3917	PC,PCjr,XT+color	05Z
Bumble	Bumble Plot tm (Feature 4096)	6024-096	45									6520-3917	PC,PCjr,XT	05Z
-Burroughs	COBOL Conversion from Burroughs (R) 2500	5798-APH	2435									.GB21-0836	DOS/05	01H
Burroughs	TRANSLATOR Burroughs (R) COBOL 1800-1900	5796-PXY	46200									6520-9204	MVS+ISPF	05H
Burroughs	TRANSLATOR Burroughs COBOL 2000-4900	5796-PYL	46200									6520-9204	MVS+ISPF	05H
Burroughs	TRANSLATOR Burroughs COBOL 5, 6 & 7000	5796-PYN	46200									6520-9204	MVS+ISPF	05H
Burroughs 1700	COBOL Conversion Aid	5798-ROT	1430									.GB30-1764	System/38	05X
Bus	Bus Mgt Extended Support Annual Subscript	6410-950/01	222									12.0830-0917	See Program Descriptn.	05G
+Bus	Bus Mgt Series Local Area Network Access	6410-965	245									6580-2002	PC Network	05G
Bus	General Purpose Interface Bus Adapter	6024-201	89									6520-1107	GP/IB+D052+	05Z
BUS	Microsoft (R) MOUSE (BUS)	6871-347	175									.GB30-2037	PC,XT,3270-PCuse	05Y
Butterfly	Juggles' Butterfly tm (Feature 4095)	6024-095	39									6520-3917	PC,PCjr,XT	05Z
C	See yellow pages 4-84 ff.	0000-012	nc											N05C

Keywords - Alphabetic Sequence

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Codes Explained in Appendix B

Keyword	Program Title	Number	OTC	ILC	MLC	DSO	DSI	DSH	MPL	MML	Mo	MoreInfo	Environment	TPLS
C calls	FORTRAN 77 Interactive Compiler	6410-971	275									.G320-0345	PC/IX	05H
C compatibility	FORTRAN 77 Interactive Compiler	6410-971	275									.G320-0345	PC/IX	05H
C compiler	PC Interactive Executive	1753-369	989									GH20-6247	PC,XT,XT/370,AT+10MB	05E
C compiler	XENIX tm (Preinstalled on l-side hardisk	6351-443	995									GC22-9248	System 9000	05E
C debug	FORTRAN 77 Interactive Compiler	6410-971	275									.G320-0345	PC/IX	05H
C routines	FORTRAN 77 Interactive Compiler	6410-971	275									.G320-0345	PC/IX	05H
+C.D.E.P.	Classified Data Erasure Program	5798-DXN	5000									GC26-4269	VM,MVS	15S
C&SM	SSP Communications & System Mgt	5727-SS1/08	1000			53	875					GC21-9021	4536,4537,4662	15A
+C/GA	THE FIX tm with EPROM for C/GA	5793-AGQ	4500									GB30-2027	Industrial PC	05Y
+C/GA	THE FIX Eng Devt with EPROM for C/GA	5793-AGQ/02	2100									GB30-2027	Industrial PC	05Y
Cabinet	File Cabinet Option Wide-Screen Feature	5798-CPY/01				250						24.GB21-2103	6013,6014	15H
-Cabinet	File Cabinet Option / VTAM	5798-DCG	15960			732						.GB21-2604	MVS/SP,MVS/XA	15H
Cable	Cable Data Management System	6317-002	450									6570-2040	PC+IBM Cabling System	05X
Cache	Cache Analysis Aid Version 4 - 3880	5799-WXA	nc										MVS	NO5E
Cache	Cache RMF Reporter	5798-PDD	1210									.G320-0362	DF/DS,DFP+RMF+PL/I	15X
CAD	CADAM (R) - CAD Only Entry System	5796-PTH	32760			799						G320-6063	VM/SP	15E
CAD-only	CADAM (R) CAD-only Interactive Module	5796-ATA	78700	4650	1400	44970	8610	799				G320-6063	05/VS,VM+GAM	15E
CAD/CAM	CADAM (R) - CAD/CAM Entry System	5796-PTH/01	37800			922						G320-6063	9680,9681	15E
CAD/CAM	CADAM (R) CAD/CAM Interactive Module	5796-ATB	90660	16100	1615	51800	9840	922				G320-6063	05/VS,VM+GAM	15E
CAD/CAM	Data Communication Service Release 2	5668-865	20000	1605	535								MVS,XA,VM	15E
CAD/CAM	Initial Graphics Exchange Spec Processor	5668-904	26400	2400	800								5374LMS+5796ATC+ATJ	15E
CAD/CAM	737x Industry Std Plotting Commands	5796-BDZ	395									GC23-0120	MVS,VM,RS232+FORTRAN	15X
CADAM	CADAM (R) - CAD Only Entry System	5796-PTH	32760			799						G320-6063	VM/SP	15E
CADAM	CADAM (R) - CAD/CAM Entry System	5796-PTH/01	37800			922						G320-6063	9680,9681	15E
CADAM	CADAM (R) - Data Mgmt Entry System	5796-PTH/02	14616			356						G320-6063	6033,6133	15E
CADAM	CADAM (R) - Hard Copy Entry System	5796-PTH/03	12348			300						G320-6063	6034,6134	15E
CADAM	CADAM (R) to COMPACT II (R) Interface	5796-BDG	18900	1440	480	12600	963	321					05/VS,VM+GAM	15E
CADAM	CADAM (R) Accounting Information Module	5796-ATH	3540	654	63	2020	399	35				G320-6063	05/VS,VM+GAM	15E
CADAM	CADAM (R) APT Interface	5796-ATE	23900	4305	430	13660	2460	246						15E
CADAM	CADAM (R) APT Source Geometry	5796-BDT	21000	1605	535	14000	1065	353					05/VS+GAM	15E
CADAM	CADAM (R) CAD-only Interactive Module	5796-ATA	78700	4650	1400	44970	8610	799				G320-6063	05/VS,VM+GAM	15E
CADAM	CADAM (R) CAD/CAM Interactive Module	5796-ATB	90660	16100	1615	51800	9840	922				G320-6063	05/VS,VM+GAM	15E
CADAM	CADAM (R) D/B/M Detail Library Feature	5668-853/01	2675	224	74	1675	148	47					2146,4644,4624,2346,	15E
CADAM	CADAM (R) Data Management Module	5796-ATC	35550	6700	624	20300	4090	356				G320-6063	05/VS,VM+GAM	15E
CADAM	CADAM (R) Design/Build/Manage	5668-853	20000	1765	535	13400	1185	395					5796-ATA,ATB,PTH	15E
+CADAM	CADAM (R) DRAWING Viewing Program - Host	5796-TBP	1250									G320-0898	VM,MVS+5796-TBQ	15H
+CADAM	CADAM (R) DRAWING Viewing on PC	5796-TBQ	750									G320-0898	5796-TBP+EGA+8087	05Y
CADAM	CADAM (R) Express - Base	5664-286	126000			8560	3315					GH20-6487	5750-596	15E
CADAM	CADAM (R) Express	5750-VME	various									GH20-6487	VM,5080 or 3250	V15E
CADAM	CADAM (R) Geometry Interface Module	5796-AIJ	20730	3820	365	11840	2335	208				G320-6063	05/VS,VM+GAM	15E
CADAM	CADAM (R) Hardcopy Module	5796-ATD	29910	5550	527	17100	3390	300				G320-6063	05/VS,VM+GAM	15E
CADAM	CADAM (R) Installation Productivity - OS	5798-DEX/01	3400									GB21-2753	6018,6019	15X
CADAM	CADAM (R) Interactive Design Version 2	5668-840	70000			1710						G320-6063	VM,05/VS+3250/5080	T15E
CADAM	CADAM (R) Interactive Design/Manufacturing	5668-840/01	12000	2140	256	8400	214	180					6050,6560,2374,6550,	15E
CADAM	CADAM (R) Statistical Data Module	5796-ATG	2120	372	34	1960	226	19				G320-6063	05/VS,VM+GAM	15E
CADAM	CADAM (R) 3D Interactive	5668-844	35000	2675	909	24500	1920	640				G320-6063	5668-840	15E
CADAM	CADAM (R) 3D Mesh Geometry Module	5796-AHR	27510	2910	457	15730	3870	261				G320-6063	05/VS,VM/CMS	05H
CADAM	CADAM (R) 3D Piping	5796-BFN	41730	2730	910	26150	1830	610					5668-840	15E
CADAM	CADAM (R) 3D Surface Geometry Module	5796-AMT	12050	1285	215	6885	1250	123				G320-6063	05/VS,VM/CMS	05H
CADAM	CADAM Express Versaplot Color Random	5664-286/01	6250										4532	15E

Keyword	Program Title	Number	OTC	ILC	MLC	DSO	DSI	DSM	MLP	MHL	Mo	MoreInfo	Environment	TPLS
CADAM	CADAM Express Workstation Extension	5664-286/02	97720	30330	1185	2362016850							2113,4527,4528	15E
CADAM	CADAM Geometry Interface Version 2	5668-842	24000	4280	480	15400	2800	340					SH20-6491	15E
CADAM	Initial Graphics Exchange Spec Processor	5668-904	26600	2400	800								5374LM3+5796ATC+ATJ	15E
+CADAM	Professional CADAM tm	5669-193	15000										RT AIX tm+graPHIGS	05H
-CADAM	Softcopy - a CADAM (R) Drawing Viewer	5796-PNP	7630	347									G320-6388 MVS,VM+3277GA	15E
*CADAM (R)	Circuit Board Design - Circuit Pack 4.1	5796-PRP	48600	8355	2785	58351945							G320-9175 VM+5080/3250/3277GA	11SE
CADAM (R)	CADAM Geometry Interface Version 2	5668-842	24000	4280	480	15400	2800	340					SH20-6491	15E
CADAM (R)	CADAMAC	5668-843	19000	1470	490	13300	1020	340					SH20-6491	15E
CADAM (R)	CAEDS (R) Modeler	5796-BFR	77100	7710	2570	53970	54001800						GE20-0771 VM,VM+5080+GAM	15E
CADAM (R)	Graphical Display and Query Facility 1.3	5668-905	20000	1365	455								MVS,VM+GDDM+3270	15E
CADAMAC	CADAMAC	5668-843	19000	1470	490	13300	1020	340					SH20-6491	15E
+CAEDS	CAEDS (R) - CATIA (R) Geometry Transform	5796-TBN	4250										G320-0900 MVS,VM	15H
+CAEDS	CAEDS (R) Base 1.0	5669-206	1655										RT	05H
+CAEDS	CAEDS (R) Base Version 2.0	5713-AAA	7825	265	5480	185							VM,MVS	15E
CAEDS	CAEDS (R) Finite Element Solver	5796-BDM	26470	3655	941	19800	2400	620					G520-3935 5796-BBZ+3277GA,3251	15E
CAEDS	CAEDS (R) Frame Analysis	5796-AZA	20960	2085	695	15400	1380	460					GE20-0771 MVS,VM+5080/3250	15E
CAEDS	CAEDS (R) Graphics System	5796-BBZ	49700	3275	1655	34790	23001100						GE20-0771 MVS,VM+3250/5080	15E
CAEDS	CAEDS (R) Modeler	5796-BFR	77100	7710	2570	53970	54001800						GE20-0771 VM,VM+5080+GAM	15E
+CAEDS	CAEDS (R) Object Modeler 1.0	5669-207	6060										RT	05H
+CAEDS	CAEDS (R) Object Modeler	5713-ABB	varies	445									Base	VIUE
+CAEDS	CAEDS (R) System Modeler 1.0	5669-208	8230										RT	05H
+CAEDS	CAEDS (R) System Modeler	5713-AAC	varies	605									Base	VIUE
CAEDS	CAEDS (R) System Analysis	5796-BEP	45790	4815	1605	33740	31501050						GE20-0771 MVS,VM+5080/3250+GAM	15E
+CAEDS	CAEDS Graphics Finite Element Modeler 1.	5669-209	8940										RT	05H
+CAEDS	CAEDS Graphics Finite Element Modeler	5713-AAD	varies	600									Base	VIUE
+CAEDS	CAEDS Integrated Finite Element Solver	5713-AAE	varies	485									Base	VIUE
+CAEDS	CAEDS System Dynamics Analysis	5713-AAF	varies	1050									Base	VIUE
CAFRS	Client Account & Financial Reporting Sys	5726-C21	4100	182								.GH50-0230	System/34	11C
CAFRS	Client Account & Financial Report Sys II	5726-C22	7400	280	5550	196						.GH50-0230	System/34	11X
CAI	Interactive Instructional Authoring	5668-011	16170	529									.GH20-0008 VM,IMS,CICS+TCAMVTAM	2EB
CAI	Programmed Inquiry Learning or Teaching	6316-973	219										.G520-1107 PC,XT,AT,PPC,PCjr	05H
Calculations	COPICS Product Cost Calculations II	5785-GBD	5705	173									.GB21-2642.DDS/VSE OS/V5 DL/I	15E
-Calculator	Financial Desk Calculator	5796-ZEL	352										.GB30-2093 System/38	15X
Calculator	Financial Desk Calculator	5796-ZOW	319										.GB30-2281 System/36	15X
Calculator	Personal Scientific Calculator	6276-513	25										PC,XT, jr, AT, 3270-PC	05R
-Calendar	Calendar Management System	5798-NZB	3815	347								12.GB30-1401	System/34	15H
California	California Medical Assistance Program	5798-RGD/01	440										.GB30-1699	6035
Call	Automated Response Line Call Handlg	5798-RRG	5500	250									.G320-9172	System/34
+CAMM	CAMM tm Interface Module	5793-AFF/01	550										6600	05Y
CAMM	CAMM tm System Kit	5793-AFF/02	550										GB30-2037	5531, 7531, 7532
CAMM	CAMM Allen-Bradley Controller Offline	5793-AEY/05	500										6500	05Y
CAMM	CAMM Allen-Bradley Controller Online	5793-AEY/11	1750										GB30-2037	6513
CAMM	CAMM Analogic tm Controller Offline	5793-AEY/06	500										6510	05Y
CAMM	CAMM Analogic Controller Online	5793-AEY/12	1750										GB30-2037	6514
CAMM	CAMM DSE Analytical Mod, Std Graphics	5793-AEY/01	500										GB30-2037	6505
CAMM	CAMM DSE Analytical Mod, Enhanced Graphi	5793-AEY/02	950										GB30-2037	6506
CAMM	CAMM General Electric tm Contlr Offline	5793-AEY/07	500										6511	05Y
CAMM	CAMM General Electric Controller Online	5793-AEY/13	1750										GB30-2037	6515
CAMM	CAMM Modicon tm Controller Offline	5793-AEY/08	500										6525	05Y
CAMM	CAMM Modicon Controller Online	5793-AEY/14	1750										GB30-2037	6527

Keyword	Program Title	Number	OTC	ILC	MLC	DSO	DSI	DSH	MLP	MML	Mo	MoreInfo	Environment	TPLS
CAMM	CAMM Turnbull Controller Offline	5793-AEY/10	500										6512	05Y
CAMM	CAMM Turnbull Controller Online	5793-AEY/16	1750									GB30-2037	6516	05Y
CAMM	CAMM TIMAY tm Controller Offline	5793-AEY/09	500										6526	05Y
CAMM	CAMM TIMAY Controller Online	5793-AEY/15	1750									GB30-2037	6528	05Y
CAMMGraph	CAMMGraph_Build/Display Enhanced Graphs	5793-AEY/03	4600									GB30-2037	6507	05Y
CAMMGraph	CAMMGraph Display Enhanced Graphics	5793-AEY/04	2600									GB30-2037	6508	05Y
Campaign	Midway Campaign tm	6085-994	21									GB30-2037	PC	05Y
Can	I Can Be Anything	6024-304	50									0520-1107	PC,PCjr,XT,AT,PPC	05Z
Canada	DisplayWrite/36 French II (Canada) Dictn	5727-HP2/02	120			105						0580-0454	4763,6064	15A
Canada	DH/36 French II Dictionary (Canada)	5727-HP7/03	90									0580-0570	4787	05H
Candida	4250 Candida tm	5771-AAD	800									0520-0004	CDPF (5668-997)	11E
Capability	CMS/Extended Data Array Capability 1.1	5798-DWA	23000									.SH20-6958	VM/XA Migration Aid	25H
Capacity	Capacity Planning and Operations	5740-M41	21070		823							.GH12-5119	05/V51,MV5	21B
Capacity	Capacity Planning and Operations	5746-M41	17310		787							.GH12-5119	D05/V5	21B
Capacity	Capacity Planning Extended	5798-CYM	4410		189							.GB21-2391	05/V5,5798-CPR	11X
Capacity	Capacity Reqs Plannng - Upgr from MAPICS	5714-M7G/01	2790			2455							.4634,9623	15E
Capacity	Capacity Requirements Planning	5714-M4G	6560		234	4920		175				.GH30-0482	System/38	11D
+Capacity	Capacity Requirements Planning	5714-M7G	7480		375	6582						.GH30-9037	System/38	15E
Capacity	Capacity Requirements Planning	5726-M4G	5615		228	4215		171				.GH30-0221	System/34	11X
Capacity	Capacity Requirements Planning	5727-M4G	5885		339	4415						.GH30-9002	CASS	15B
Capacity	Capacity Requirements Planning	5727-M7G	7150		357	6290						.GH30-9006	CASS	15E
-Capacity	CICS Performance & Capacity Planning	5798-DKF	1085									.GB21-2991	5798-CFP	15X
+Capacity	CICS/IMS Data Collector Capacity Plan	5798-DML	1815									.GB21-3057	05/V5,CICS/V5	15X
+Capacity	COPICS Capacity Requirements Planning	5668-829	18000		900							.GH19-6613	CICS/IMS/DL/+COBOL	15E
Capitalization	Capitalization_Skills	6024-085	55									0520-1107	Private Tutor 2.00	05Z
+Capitols	Countries, Capitols and More!	6276-559	25										PC,XT,AT,PCjr,3270PC	05R
CAPOSS-E	Capacity Planning and Operations	5740-M41	21070		823							.GH12-5119	05/V51,MV5	21B
CAPOSS-E	Capacity Planning and Operations	5746-M41	17310		787							.GH12-5119	D05/V5	21B
Caps	States 'n Caps (R)	6871-278	39									.GB30-2037	PC,XT,PCjr	05Y
-Capture	Data Capture / Edit for Bar Code	5798-RHP	1815		165							12.GB30-1708	Series/1	15X
Capture	DPX Data Capture and Management System	5760-XR6	2440		139	1830		105	31	49		.GH20-2421	DPX	15X
Capture	1419 Proof-of-Deposit MICR Capture	5798-DCD	3630		330							12.GB21-2668	D05/V5E	15H
Carbo	Chemicals of Life II: Water, Carbo Lipid	6024-344	65									0520-1107	PC,PCjr,XT,AT,PPC	05Z
Carbo	Chemicals of Life II: Water, Carbo Lipid	6024-394	295									0520-1107	PC,PCjr,XT,AT,PPC	05Z
Card	CPS 4991-201 Mag Stripe Card Reader	5799-TAJ	336		14								Series/1	05C
-Card	Magnetic Card Conversion	5608-SR3	525		240							0544-0851	Displaywriter	05E
-Cardfile	DPCX Cardfile Facility	5798-DJG		300	115							12.GB21-2942	DPCX,MV5,D05/V5E	15X
Care	HCS PCS Patient Care System 05	5796-ANY			2900							24.G320-5756	MV5+CICS+IMSDB	25H
Care	HCS PCS Patient Care System 005	5796-ATZ			3190							24.G320-5756	V5E+CICS+DL/I	25H
+Care	Patient Care - Medical Records&Concer	5796-TBH	90000									.G320-0824	5796-BCE,BCF and BBF	25H
Care	Patient Care System - Patient Accounting	5668-913	165000		7500							.GH20-6351	5796-BBF+BCE+BCF	15E
Care	Patient Care System Patient Management 1.1	5796-BBF		5135	1050							.G320-6425	MV5,V5E+5796-BCE,BCF	15E
+Care	Patient Care System - Online Text	5796-PZR	9000									.G320-0820	MV5,V5E+PCS	25H
Care	PCS Nursing Care Plans	5796-PQC	8250	1500	575							.G320-6632	5796-ANY,ATZ	15X
-Career	Career Guidance System- Secondary School	5796-AYB			250							24.G320-6176	5796-AYA	15H
-Career	Career Guidance System- Adults / College	5796-AYC			250							24.G320-6176	5796-AYA	15H
-Career	DISCOVER- Career Guidance System - Base	5796-AYA			750							24.G320-6176	D05/V5E V51	15H
+Career Sch	General Ledger	5796-TCB	3000									.G320-9506	System/36	15I
+Career Sch	Graduate Placement	5796-TCC	2250									.G320-9506	System/36	15I
+Career Sch	Guaranteed Student Loan/Pell Tracking	5796-TCG	1500									.G320-9506	System/36	15I

Keyword	Program Title	Number	OTC	ILC	MLC	DSO	DSI	DSH	MHP	MHL	Mo	MoreInfo	Environment	TPLS
+Career Sch	Projected/Actual Payment Tracking	5796-TBY	1500									G320-9506	System/36	15I
+Career Sch	Registration, Attendance & Grading	5796-TCJ	6750									G320-9506	System/36	15I
+Career Sch	Student Accounts Payable	5796-TCF	1500									G320-9506	System/36	15I
+Career Sch	Student Financial Tracking	5796-TCA	6750									G320-9506	System/36	15I
+Career Sch	Student Recruitment	5796-TCD	6000									G320-9506	System/36	15I
+Career Sch	Vendor Accounts Payable	5796-TCH	1500									G320-9506	System/36	15I
Case	DPPX Case Processing System	5785-UAB	4250			3600						G320-0827	DPPX Base or DPPX/SP	15H
Case handling	Legal Diary System	5796-BTT	49500										CICS/OS/VS	25X
Cash	Corporate Cash Manager	5601-006	4400									.GH20-0391	PC,XT	05H
Cash flow	Dollars and Sense tm	6871-482	180									.GB30-2037	PC,PCjr	05Y
-Cash Letters	Proof-of-Deposit / Transit	5798-NMH	2075		189							12.GB30-1141	System/34	15H
-Cashier	Cashier Assignment System	5798-CKQ	3025		275							12.GB21-1921	DOS/VS	11H
-Cashier	Supermarket Cashier Performance System	5796-BAE			180							12.G320-6407	DOS/VSE	15H
CASS	Cross Application System Support	5727-D4A	1815		106	1360						.GH30-0690	S/36,S/36 PC+DMAS	15B
CASS	Cross Application System Support	5727-MMX	1815		111	1360						.GH30-9002	System/36+MAPICS	15B
CASS	Cross Application System Support		1650		94	1235						.GH30-9003	S/36,S/36 PC,+CMAS	15B
Cat	Alley Cat tm	5727-M6X			25								PC,XT,jr,PPC	05R
Cat	Comma Cat	6024-293	49									G520-1107	PC,XT,PCjr,PP,At	05Z
+Catalog	Integrated Catalog Forward Recovery Util	5798-DXQ	4500									G320-9501	MVS,XA	15H
+CATIA	CAEDS (R) - CATIA (R) Geometry Transform	5796-TBN	4250									G320-0900	MVS,VM	15H
+CATIA	CATIA (R) Advanced Surfaces 2.2	5668-831		1410	470		993	331					CATIA Base	15E
+CATIA	CATIA (R) Base 2.2 4 CSTU	5668-760			685								MVS,VM+3250/5080	15E
+CATIA	CATIA (R) Base 2.2 Unlimited CSTU	5668-760/01		4125	1375		2895	965					4800,2230	15E
CATIA	CATIA (R) Basic 3D Design - Standalone	5668-828			1035							G320-6650	Replaced by 5668-761	15E
+CATIA	CATIA (R) Building Design	5668-741			400								CATIA Base+Draft 2.2	15E
CATIA	CATIA (R) Drafting	5668-827			535							G320-6650	Replaced by 5668-837	15E
+CATIA	CATIA (R) Drafting 2.2 4 CSTU	5668-837			535								CATIA Base	15E
+CATIA	CATIA (R) Drafting Unltd CSTU	5668-837/01		3210	1070		1070	750					4727,2207	15E
+CATIA	CATIA (R) Interface 2.2	5668-832			1020	340		735	245				CATIA Base	15E
+CATIA	CATIA (R) Interactive User Access	5798-DYQ		3000	1000							SH20-0072	CATIA Base	15H
+CATIA	CATIA (R) Kinematics 2.2 Unltd CSTU	5668-835		1410	470		993	331					CATIA Base	15E
CATIA	CATIA (R) Library 2.2	5668-838		1020	340		735	245				G320-6650	CATIA Base	15E
CATIA	CATIA (R) Numerical Control	5668-826			288							G320-6650	Replaced by 5668-833	15E
+CATIA	CATIA (R) Numerical Ctl 2.2 4 CSTU	5668-833			288								CATIA Base	15E
+CATIA	CATIA (R) Numerical Ctl Unlimited CSTU	5668-833/01			288								4723,2203	15E
+CATIA	CATIA (R) Robotics 2.2 Unltd CSTU	5668-836		1725	575		1215	405					CATIA Base	15E
+CATIA	CATIA (R) Solids Geometry 2.2 Unltd CSTU	5668-834		1725	575		1215	405					CATIA Base	15E
+CATIA	CATIA (R) 3D Design 2.2 4 CSTU	5668-761			350								CATIA Base	15E
+CATIA	CATIA (R) 3D Design Unlimited CSTU	5668-761/01		2100	700		1470	490					4802,2240	15E
+CATIA	CATIA (R) 3D Design	5668-830		1725	575		1215	405					Replaced by 5668-761	15E
CBAS Base	Commercial Bank System Base Support	5746-F60			508							.GH20-2497	DOS/VSE and CIF/VS	15X
CBAS CLB	Commercial Bank Club Accounting	5746-F66			618	238						.GH20-2497	DOS/VSE+CBAS Base	15X
CBAS CML	Commercial Bank Commercial Loan Acctg	5746-F68		1615	618							.GH20-2497	DOS/VSE+CBAS Base	15X
CBAS DBA	Commercial Bank Demand Deposit Accounting	5746-F61			418							.GH20-2497	DOS/VSE+CBAS Base	15X
CBAS GNL	Commercial Bank General Ledger Accounting	5746-F64			269							.GH20-2497	DOS/VSE+CBAS Base	15X
CBAS ILM	Commercial Bank Installment Loan	5746-F67		979	374							.GH20-2497	DOS/VSE+CBAS Base	15X
CBAS RVC	Commercial Bank System Revolving Credit	5746-F65			212							.GH20-2497	DOS/VSE+CBAS Base	15X
CBAS SAV	Commercial Bank Savings Accounting	5746-F62			378							.GH20-2497	DOS/VSE+CBAS Base	15X
CBAS TCD	Commercial Bank Time Deposit Certificate	5746-F63			292							.GH20-2497	DOS/VSE+CBAS Base	15X
CBASIC	CBASIC Compiler tm	6871-343	600									.GB30-2037	PC,XT,3270-PC	05Y



Keyword	Program Title	Number	OTC	ILC	MLC	DSO	DSI	DSH	HLP	MHL	Mo	MoreInfo	Environment	TPLS
CBDS	Circuit Board Design - Design Verify	5796-PRL	23400	2085	695	16380	1455	485				G320-9175	5796-PRP	T15E
MCBDS	Circuit Board Design - Circuit Pack 4.1	5796-PRP	48600	8355	2785		58351945					G320-9175	VM5080/3250/3277GA	T15E
CBIFPO	MVS Custom-Built Installation Process Of	5751-CS1	varies									GC25-0127	MVS	V S
CBIFPO	MVS CBIFPO Drivers	5665-343	178									GC25-0127	5751-CS1.2	05C
CBIFPO	MVS CBIFPO Model Inst Related Inst Materl	5751-CS2	varies									GC25-0127	5751-CS1	V S
CBIFPO	MVS CBIFPO Model Inst Related Inst Materl	5751-CS2	varies									GC25-0127	5751-CS1	V S
CBIFPO	MVS Introductory Base Offering	5751-CS3	varies									GC25-0127	5751-CS1	V S
CBX	EDX TMM5/ROLM CBX 9000 Interface	5799-THK	6420										TMM5	15H
CCITT	X.25 NCP Packet Switching Interface 4.3	5668-981		770	269		557	202	40	64		GC30-3189	3720/25+NCP 4.2	25K
CCM	Corporate Cash Manager	5601-006	4400									.GH20-0391	PC,XT	05H
CCP	S/3 CCP to S/38 Conversion	5714-CV7	2810									GC21=7772	System/38	05X
-CCM	Chained CCW Print Subroutine	5796-ARH	385									.G320-5828	DOS/VS	15H
CDPF	Composed Document Printing Facility 4250	5668-997	48000		342				49	78		GC33-6133	SCRIPT and/or GDDM	15K
CDPF	Graphic Data Display Manager	5748-XXH		767	159		575	120	36	58		GC33-0100	VM,CICS,IMS,MVS	15K
CDPF	4250 IIC Avant Garde Gothic tm	5771-AAA	640									0520-0004	CDPF (5668-997)	11E
Cell	Cell Functions: Growth & Mitosis	6024-316	65									0520-1107	PC,PCjr,XT,AT,PPC	05Z
Cell	Cell Functions: Growth & Mitosis (BioSer	6024-391	295									0520-1107	PC,PCjr,XT,AT,PPC	05Z
+Cells	Cytology & Histology: Cells & Tissues	6024-407	65									0520-1107	PC,PCjr,XT,AT+color	05Z
+Cells	Cytology & Histology: Cells & Tissues	6024-437	295									0520-1107	PC,PCjr,XT,AT+color	05Z
Cellular	Human Life Processes: Cellular Physiolo	6024-346	65									0520-1107	PC,PCjr,XT,AT,PPC	05Z
Center/1	Info Center/1	5668-897	22000		1390	18000		1040				.GH20-0398	VM,MVS	15E
Century	Hadassah tm and Monotype Century tm	5771-ACN	1500									0520-0004	CDPF	15E
Century	4250 Monotype Century tm	5771-AAE	640									0520-0004	CDPF (5668-997)	11E
Century	4250 Monotype Century Schoolbook tm	5771-AAF	640									0520-0004	CDPF (5668-997)	11E
CES	Bid Day System	5710-RTZ	1650									.GB30-2450	System/36	15H
CES	Drywall Contractor Module	5710-RTQ	2200									.GB30-2450	5710-RTN	15H
CES	Electrical Contractor Module	5710-RTT	8250									.GB30-2450	5710-RTR	15H
CES	Fire Protection Module	5710-RTX	1100									.GB30-2450	5710-RTR	15H
CES	General Contractor Module	5710-RTP	8250									.GB30-2450	5710-RTN	15H
CES	Interactive Cost Estimating - Base	5710-RTN	12650									.GB30-2450	System/36	15H
CES	Interactive Cost Estimating - Base	5710-RTR	12650									.GB30-2450	System/36	15H
CES	Mechanical Contractor Module	5710-RTY	3850									.GB30-2450	5710-RTR	15H
CES	Plumbing Contractor Module	5710-RTW	3300									.GB30-2450	5710-RTR	15H
CF0	Consolidated Functions Ordinary Vers 2	5736-N13	10370		500							.GH20-5006	05/DOS	11E
*CGA/EGA	THE FIX tm w/EPROM for CGA/EGA	5793-AGX	2100									GB30-2037	Industrial PC	05Y
*CGA/EGA	THE FIX tm Runtime w/EPROM for CGA/EGA	5793-AGH	2675									GB20-2037	Industrial PC	05Y
CGC	Legal Diary System	5796-BTT	49500										CICS/05/VS	25X
Chain	Communications Chain Facility - Batch	5798-RJK	275									.GB30-1801	5280 Data System	15X
Chain	EDX Chain Pharmacy	5798-RGD	2420									.GB30-1699	Series/1	15X
-Chained	Chained CCW Print Subroutine	5796-ARH	385									.G320-5828	DOS/VS	15H
Chained	Chained File DL/I Bridge	5748-XX3	14740		576							.GH12-5116	DOS/VS,05/VS	15B
Chained	Chained Jobs Scheduling	5785-GAK	11320		858							.GB21-2869	05/VS	15H
Challenges	Trivia 103 (Challenges for Young People)	6276-610	20									PC,XT,jr,AT,3270-PC		05R
+Chan	Print Services Fac - 3800 Chan Attach	5664-198/02	13375		510	10031		383				G544-3415	4788,4787,6549,6560	25M
Change	Change Management Tracking	5740-DC1	12180									.GH19-6028	05/VS	15C
Change	Change Tracker	5740-DC4	4550		207							.GH19-6028	05/VS	15C
Channel	EDX System/370 Channel Attachment	5719-CX1	2820		112							SC34-1701	Series/1	15E
Channel	PSP/MVS 3800 Channel Attach Feature	5665-275/01	13375		510	10030		385					2151,6150	25K
Channel	System/370 Channel Attachment	5719-CA1	1305		35							GC34-0217	Series/1	15X
Channel	Waterloo PC Network Channel Attached	5793-AAN/01	nc									.GB30-2411	2001	NO5E

Keyword	Program Title	Number	OTC	ILC	MLC	DSO	DSI	DSM	MLP	MHL	Mo	MoreInfo	Environment	TPLS
Char	3800 90 Degree Rotate Rescaled Char Set	5798-DNK	440									.GB21-3121	MVS+3800-III	15X
-Character	Character Conversion Aid	5665-299	1100										MVS+5748-XXH+AP1	01E
-Character	3800 Character Extensions	5798-CZG	330										.GB21-2429	OS/VS D0S/VS
-Character	3800 Interactive Character Design	5798-CTJ	1990		181								OS/VS, TSO	11H
-Character/Graph	3800 Character Graphic / Logo Design Aid	5798-DND	660										.GB21-3092	OS/VS+3800+5740-CB1
Characters	Characters for Mathematics and Science	5771-ACH	960										G320-0004	ODF
Charge posting	Hotel Reservation & Guest Accounting Sys	5710-D01	66000										GB30-2034	System/38
Charitable	Association Management	5798-RNX	550										GB30-2245	Displaywriter
Charitable	Educational Fund-Raising	5798-RNY	550										GB30-2246	Displaywriter
Charitable	Fund Raising/Development - Trade Assn	5796-ZJR	3300										GB30-2352	5796-ZHZ
Charitable	General Donor Fund-Raising	5798-RNN	550										GB30-2196	Displaywriter
-Charitable	Medical Fund Raising	5796-PXD	385										G320-0351	Reportpack
Charitable	Membership Data Base	5796-ZJE	7700										GB30-2401	System/36
Chart	Bar Chart	5799-BHQ	900										GC21-7953	System/38
Chart	Microsoft Chart	6086-008	295										GB20-2037	PC,XT,AT,PCjr,3270PC
Chart-Master	Chart-Master	6871-432	375										GB30-2037	PC,XT,3270-PC
-Charter	Managing Appl Development - Bar Charter	5798-DMX	396										GB21-3082	OS/VS, D0S/VSE
Charting	Business Charting Program	5799-BJH												System/34
+Charting	Color Graphics Charting	4421-519	395										SC53-0223	3270-PC Graphics CP
-Chartpack	Chartpack	5608-SRA	410										G544-2215	Displaywriter
Charts	ENERGRAPHICS tm	6187-234	350										GB30-2037	PC,XT,3270-PC+color
Check	Check Proc Archive Retrieval & Suspense	5796-BTW	8800										G320-9153	OS/VS
Check	Check Processing Control System	5734-F11			1375								GH20-1008	OS/MFT/MVT/VS
Check	Check Processing Executive / 3694	5748-F53	2100		66								GH20-2444	5748-F54
Check	Check Processing Executive / VS	5748-F54			346								GH20-2444	OS/VS, D0S/VSE VTAM
Check	Check Processing Control - CHX Interface	5798-DKH	3190										GB21-2997	MVS
Check	Check Processing / Sort 3694	5798-RK0	440										GB30-1853	S/34 + 5748-F53
Check	Check Processing / Communications	5798-RKH	440										GB30-1851	S/34 + 5748-F53
Check	Check Reports	5748-F13	16500		552								GH20-2136	OS/VS, D0S/VS
Check	Credit / Check Authorization	5798-DEH		7875	3015								12.GB21-2748	MVS, D0S/VSE, CICS/VS
-Check	Online Reject/Reentry Check Processing	5798-NZY	550		50								12.GB30-1445	System/34
Check	3694 Check Processing Executive/General	5798-DQK	4950										G320-0372	System/38
-Check Processin	Accounts Payable Online	5798-RFT	2055		187								12.GB30-1670	System/34
-Check Reconci	Construction Information - Accts Payable	5796-ZAR	1815										GB30-1728	Sys/23 Datamaster
Checkbook	Checkbook I/O	6276-616	30										PC,XT,jr,AT,PPC	05R
CheckBook	PC CheckBook	6276-617	20										PC,XT,jr,AT,3270-PC	05R
Checker	IMS/DBT DEDB Pointer Checker	5668-856/05	2845										.4742	25E
Checker	Symphony Spelling Checker	6187-251	139										GB30-2037	Symphony tm
Checking	LDMS Normal Value / Delta Checking	5798-DCH	4715		429								12.GB21-2602	5796-APB, 5796-AWC
Checking	PARIS- Receiving Checking & Distribution	5796-PTD		995	287								36.G320-9146	5666-294
Checking	Receiving, Checking & Distribution Systm	5796-PXQ	20350										G320-9146	MVS+PARIS/Base
Checkout	PL/1 Checkout Compiler	5734-PL2			575				431	7	11		GC33-0003	OS/VS/MFT/MVT/CMS
Chemicals	Chemicals of life I: Structure of Matter	6024-317	65										0520-1107	PC,PCjr,XT,AT,PPC
Chemicals	Chemicals of life II: Water, Carbo	6024-344	65										0520-1107	PC,PCjr,XT,AT,PPC
Chemicals	Chemicals of life II: Water, Carbo lipid	6024-394	295										0520-1107	PC,PCjr,XT,AT,PPC
Chemicals	Chemicals of Life I: Structure of Matter	6024-397	295										0520-1107	PC,PCjr,XT,AT,PPC
+Chemicals	Chemicals of Life: Proteins & Nucleic Ac	6024-609	65										0520-1107	PC,PCjr,XT,AT+color
+Chemicals	Chemicals of Life: Proteins & Nucleic Ac	6024-439	295										0520-1107	PC,PCjr,XT,AT+color
+Chi	Chi Sperry Emulation	1596-B02	795										0570-2231	PC,XT
Chromosomes	Modern Genetics: Chromosomes & Coding	6024-345	65										0520-1107	PC,PCjr,XT,AT,PPC

Keywords - Alphabetic Sequence

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Codes Explained in Appendix B

Keyword	Program Title	Number	QTC	ILC	MLC	DSO	DSI	DSM	MLP	MHL	Mo	MoreInfo	Environment	TPLS
Chromosomes	Modern Genetics: Chromosomes & Coding	6024-395	295									G520-1107	PC,PCjr,XT,AT,PPC	05Z
CHX	Check Processing Control - CHX Interface	5798-DKH	3190									.GB21-2997	MVS	15X
CHX/GS	All Items File Translation Facility 3694	5798-RFJ	1210	110								12.GB30-1645	System/34+5748-F53	15X
CHX/GS	All Items File Translation Facility 3694	5798-RQM	1650									.GB30-2238	S/36+5748-F53	15X
CHX/GS	Check Processing / Sort 3694	5798-RKG	440									.GB30-1853	S/36 + 5748-F53	15X
CHX/GS	Communication Support Facility 3694	5798-RQY	825									.GB30-2238	S/36+1CF+5748-F53	15X
CHX/GS	Document Control Section Edit 3694	5798-RFL		100								12.GB30-1645	System/34+5748-F53	15X
CHX/GS	Sort Preparation Facility 3694	5798-RQZ	825									.GB30-2238	System/34+5748-F53	15X
CHX/GS	Table Preparation Facility 3694	5798-RFK		100								12.GB30-1645	System/34+5748-F53	15X
CHX/GS	Table Preparation Facility 3694	5798-RQX	1650									.GB30-2238	S/36+5748F53+5798RFL	15X
CHX/VS	Check Processing Executive / VS	5748-F54			346							GH20-2444	05/VS, D05/VSE VTAM	15B
+CHX/VS	MICR User Editing - CHX/3694, CHX/VS	5798-DRE	7500									.G320-9250	05/VS, VSE	25H
CHX/3694	Check Processing Executive / 3694	5748-F53	2100		66							GH20-2444	5748-F54	15B
+CHX/3694	MICR User Editing - CHX/3694, CHX/VS	5798-DRE	7500									.G320-9250	05/VS, VSE	25H
CICS	See yellow page 4-7	0000-013	00											NOS.
CICS-RPGII	Online to CICS-RPGII Conversion Aid	5785-DFB	1015									.G320-9191	SSX/VSE	15X
+CICS/CMS	Customer Information Control System/CMS	5668-795	15000	835	13500	750						GC33-0284	VM,VM/PC	25M
CICS/CMS	CICS/CMS PC/370	5668-795/01	900	50										25E
-CICS/IMS	CICS/IMS Data Collector Capacity Plan	5798-DM1	1815									.GB21-3057	05/VS, CICS/VS	15X
+CICS/MVS	Query DL/I for CICS/MVS	5785-EGZ	20000									.G320-0839	IMS DB	15H
-CICS/3270	CICS/3270 Simulator	5798-AXC	781		71							.GB21-1002	CICS/05/D05/VS	01H
+CICSPARS/MVS	CICSPARS/MVS	5665-355			900	675							CICS/MVS	15E
+CIEDS tm	Computer-Integrated Electrical Design	5668-878	75000	2500	52500	1750							VM+GDDM/graPHIGS	15E
+CIEDS tm	Computer-Integrated Electrical Design	5669-191	6000										AT	05G
+CIEDS tm	Computer-Integrated Electrical Design	5669-192	8000										RT AIX	05H
CIF	Customer Information File Banking	5726-F11	4000	210								.G360-0050	System/34	11X
CIF/VS	Customer Information Facility	5740-XYB	63880	2880								.GH20-2018	IMS/VS	25X
CIF/VS	Customer Information Facility	5740-XYC	56780	2735								.GH20-2018	CICS/05/VS	25X
CIF/VS	Customer Information Facility	5746-XXS	38950	1500								.GH20-2018	CICS/D05/VS	25X
CIM	DMS/3790 Interface Monitor	5748-XC2/0	4840	259								.GH20-2002	4538	15C
CIMS	School - Employee Management System	5796-ZGA	13200									.GB30-2268	5796-ZFY	15H
CIMS	School - Financial Management	5796-ZFY	15950									.GB30-2268	System/36	15H
CIMS	School - Fixed Asset Inventory System	5796-ZOB	1960									.GB30-2268	5796-ZFY	15H
CIMS	School - Library Management System	5796-ZOF	1980									.GB30-2268	System/36	15H
CIMS	School - Student Administration System	5796-ZFZ	13200									.GB30-2268	System/36	15H
CIMS	School - Student Attendance System	5796-ZOC	3960									.GB30-2268	5796-ZFZ	15H
CIMS	School - Warehouse Inventory System	5796-ZGD	5280									.GB30-2268	5796-ZFY	15H
CIPREC	CIPREC Extended Function Package	5740-XC3/01		1113	488							.GH19-1150	6186,6195	25B
CIPREC	CIPREC Extended Function Package	5740-XC3/01		1113	488							.GH19-1150	6186,6195	25B
CIPREC	CIPREC Extended Function Package	5746-XC3/01		948	362							.GH19-1150	6118,6119	25B
CIPREC/Graphic	CIPREC/Graphic Services	5787-GAF	36300	1650								.G320-9207	VM,MVS,VSE	25H
Circuit	Circuit Board Design - Design Verify	5796-PR1	23400	2085	695	16380	1455	485				.G320-9175	5796-PRP	T1SE
*Circuit	Circuit Board Design - Circuit Pack 4.1	5796-PRP	48600	8355	2785							.G320-9175	VM+5080/3250/3277GA	T1SE
*Circuit	Circuit Board Design - Circuit Pack 4.1	5796-PRP	48600	8355	2785							.G320-9175	VM+5080/3250/3277GA	T1SE
-Circuit	Interactive Circuit Design	5796-PLR	20850	948								24.G320-6164	V5APL, APLSV	15H
Circuits	Rocky's Boots	6024-099	50									.G520-1107	PC,XT,PCjr,AT+color	05Z
CIS ADS	Customer Information System	5712-AAA	24860	2260								12.GE20-0441	05/VS	05E
CIS ADS	Customer Information System Design Svc	5712-AAA/01	4385	399								12.GE20-0441	9096	05
Claiming	Periodicals Control System Rel 4	5785-DDN	15795	2500	718							24.G320-6662	5787-DAA+FAJ+FAH	25H
+Classification	Taxonomy: Classification & Organization	6024-416	65									.G520-1107	PC,XT,AT,PCjr+color	05Z

Keyword	Program Title	Number	OTC	ILC	MLC	DSO	DSI	DSM	MLP	MML	Mo	MoreInfo	Environment	TPLS
+Classification	Taxonomy: Classification & Organization	6024-446	296										0520-1107 PC,XT,AT,PCjr+color	05Z
+Classified	Classified Data Erasure Program	5798-DXN	500										GC26-4269 VM,MVS	15S
Client	Client & Lawyer Financial System	6187-248	975										.GB30-2037 XT,AT	05Y
Client	Client and Lawyer Financial	6187-266	100										PC	05Y
Client	Client Account & Financial Reporting Sys	5726-C21	4100										.GH30-0230 System/34	11C
Client	Client Account & Financial Report Sys II	5726-C22	7400			280	5550		196				.GH30-0230 System/34	11E
Client	Client Accounting	5715-C41	2250										.GB30-2796 Sys/23 Datanaster	05Y
Client	Client Files, Conflict & Dates System	6187-249	450										.GB30-2037 XT,AT	05Y
Client	Client Files, Conflicts and Dates	6187-267	100										PC	05Y
Client	Client Financial Management	5793-AAZ	10830										.GB30-2151 5793-ABZ	05X
Client	Client Financial Management Series 800	5793-ACH	4950										.GB30-2415 System/36+5793-ABZ	05H
Client	Client Statements	5793-ABE	423										.GB30-2151 5793-AAZ+ABZ	05X
Client	Client Statements Series 800	5793-ACN	220										.GB30-2415 S/36+5793ACH+ABZ	05H
Client	Info Syst for Attny - Client Statements	5793-ADY	100										.GB30-6000 Client Finance Mgt	05H
Client	Info Syst for Attny - Client Finance Mgt	5793-AED	2250										.GB30-6000 Controller System	05H
Client	Info Syst for Attny - Client Statements	5793-AEK	250										.GB30-6001 Finance Mgt	05H
Client	Info Syst for Attny - Client Finance Mgt	5793-AEQ	6400										.GB30-6001 Controller	05H
Client	Personal Decision Series - Client Time	6410-945	75										Data Edition	05X
Client	RPS Client Prospect File	5710-RTK/01	5170				235						2105,2112	15X
Client	TCS Client Ledger System tm	6187-208	1695										.GB30-2037 PC,XT,AT	05Y
Client episodes	Community Mental Health MIS	5796-PXX	7700										.G320-0330 System/36	15H
Client/Matter	Client/Matter Record Management	5793-ABL	2320										.GB30-2166 5793-ABZ	05X
Client/Matter	Client/Matter Records Mgt Series 800	5793-ACR	1100										.GB30-2415 S/36+5793ABZ	05H
Client/Matter	Info Syst for Attny - Client/Matter Recd	5793-ADT	500										.GB30-6000 Controller	05H
Client/Matter	Info Syst for Attny - Client/Matter Recd	5793-AEG	1375										.GB30-6001 Client Finance Mgt	05H
Clinic	Medical Group Management System	5726-M15	3900					174					.GH30-0228 System/34	11C
CLOUT	CLOUT	6187-245	249										.GB30-2037 PC,XT,3270-PC+R:base	05Y
Club	Association Management	5798-RNX	550										.GB30-2245 Displaywriter	15X
Club	Commercial Bank Club Accounting	5746-F66				618	238						.GH20-2697 DOS/VSE+CBAS Base	15X
Clues	Cross Clues (R)	6082-632	30										.GB30-2037 PC	05Y
Cluster	Cluster Program	6024-107	99										0520-3917 PC,PCjr,PPC,XT	05Z
Cluster	Cluster Program - Five Pack	6024-182	439										0520-3917 PC,PCjr,PPC,XT	05Z
+Cluster	SNA Cluster Controller Release 1	5732-021	8100										SX34-0173 SDLC Protocol Suppt	15M
Cluster sharing	5218 Printer Attachment Convenience Pac	6115-651	220										0570-2063 PC,XT	05Z
CMAS	Accounts Payable	5727-M68	3355					195	2515				.GH30-9003.CASS	15B
CMAS	Committed Cost / Cost History Feature	5727-M68/01	1815			106	1360	85					.GH30-9003.4566,4586,4619,6007	15B
-CMAS	Construction Data Entry/Edit Support	5798-RBZ	605			55						12.	.GB30-1516 5280 Data System	15H
+CMAS	Construction Inventory	5796-ZPP	3000										.GB30-6016 5727-M6X+M66	15H
CMAS	CMAS File / Record Definitions	5798-RPZ	330										.GB30-2138 Retrieval/36	15X
-CMAS	CMAS File / Record Definitions	5798-RQP	330										.GB30-2136 Retrieval/34	15X
CMAS	Equal Employment Opportunity Report	5798-RQC	1100										.GB30-2185 5727-M69	15X
-CMAS	Equal Employment Opportunity Report	5798-RQK	825										.GB30-2179 System/34	15X
CMAS	Executive Data Link to PC (5250 Emulate)	5798-RRP	2750										.GH30-9029 CMAS/34	15X
CMAS	Executive Data Link to PC (5250 Emulate)	5798-RRZ	2750										.GH30-9030 CMAS/36	15X
CMAS	General Ledger	5727-M67	2475					145	1855				.GH30-9003.CASS	15B
CMAS	Job Costing	5727-M66	2475					145	1855				.GH30-9003.CASS	15B
CMAS	Payroll And Labor Costing	5727-M69	4455					257	3340				.GH30-9003.CASS	15B
CMAS	Revenue Accounting	5727-M6A	3905					227	2930				.GH30-9003 System/36+CASS	15B
+CMAS	Time & Material/Service Billing	5796-ZPK	3500										.GB30-6016 5727-M6X+M6A	15H
CMAS/34	Accounts Payable - Construction SPM	5726-M62	1625					78					.GH30-0707 System/34	11C

Keywords - Alphabetic Sequence

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Codes Explained in Appendix B

Keyword	Program Title	Number	OTC	ILC	MLC	DSO	DSI	DSH	HLP	MHL	Mo	MoreInfo	Environment	TPLS
CMAS/34	Accounts Payable	5726-M68	3200		131	2400		98				.GH30-0707	System/34	11D
CMAS/34	Committed Cost/Cost History Feature Cons	5726-M68/01	1730		70	1300	51					.GH30-0707	4021,6026,6592,6526	11D
CMAS/34	General Ledger - Construction	5726-M64	1310		62							.GH30-0707	System/34	11C
CMAS/34	General Ledger - Construction	5726-M67	2360		98	1770		73				.GH30-0707	System/34	11D
CMAS/34	Job Costing - Construction	5726-M61	1310		62							.GH30-0707	System/34	11C
CMAS/34	Job Costing - Construction	5726-M66	2360		98	1770		73				.GH30-0707	System/34	11D
CMAS/34	Payroll - Construction	5726-M63	2255		109							.GH30-0707	System/34	11C
CMAS/34	Payroll and Labor Costing - Construction	5726-M69	4250		173	3190		129				.GH30-0707	System/34	11D
CMAS/34	Revenue Accounting Construction A/R	5726-M6A	3725		151	2795		112				.GH30-0707	System/34	11D
CMHMIS	Community Mental Health MIS	5796-PXX	7700									.G320-0330	System/36	15H
CMS	See yellow page 4-117.	0000-014	nc											N0SC
CMS/Extended	CMS/Extended Data Array Capability 1.1	5798-DMA	23000									.SH20-6958	VM/XA Migration Aid	25H
CMT	Change Management Tracking	5740-DC1	12180		554							.GH19-6028	05/VS	15C
CNN	Service Level Reporter Version 2	5668-966		2130	815		1600	611	99	159		.GH19-6213	05/VS,MVS/XA	11K
+Co-processor	AT Co-processor Services	5669-057	550									SV21-8028	AIX tm on RT	05H
COBOL	See yellow pages 4-84 ff.	0000-012	nc											N0SC
-COBOL/PL/I	COBOL/PL/I Conversion Aid - VSE to MVS	5785-EBG	4330									.GB21-2792	D0S/VSE,MVS,VM/CMS	01H
-Code	Bar Code Print for MAPICS	5798-RHM	825		165							06.GB30-1706	System/34	15X
-Code	Data Capture / Edit for Bar Code	5798-RHP	1815		165							12.GB30-1708	Series/1	15X
-Code	EDX Energy Mat - Optional Source Code	5796-RJT/02	398										3014	15H
-Code	EDX Energy Mat - Source Code for Interf	5796-RJT/03	30										3015	15H
-Code	EDX Interface Code ( Com-Trol ) FMS-2000	5796-RJT/01	220									.GB30-1847	2019	15H
-Code	Morse Code Drills	6276-525	15										PC,XT,jr.,AT,PPC	05R
-Code	OS/VS JCL, Learning to Code	5798-DAJ	1250									.GB21-2508	IIS, IIPS	1EH
-Code	PC Morse Code	6276-612	20										PC,XT,jr.,AT	05R
-Code	UCSD p-System (R) Code Generator	5608-MA3	150									6552-0371	5608-MS2	15X
-Code	VTAM Node Control Applicatn Source Code	5785-ECE/01	nc									.GB21-3052	6000,6001	N15X
-Code	3 of 9 Bar Code Print 3800-3	5798-DRW	3000									.G320-9243	MVS, XA	25H
-Code	3800 3-of-9 Bar Code Print	5798-DMH	3300									.GB21-3048	05/VS	15X
+Code	6680 General Sales Applic Source Code	5669-031/01	10000									SC30-3367	7898	15M
Code-and-Go	FORTRAN - Code-and-Go	5734-F01	7200		323							GC28-6884	05/TSO/CMS	15C
Codes	RACF Codes Update System	5796-PLK	1085		99							12.G320-6093	MVS and RACF	15H
Coding	Modern Genetics: Chromosomes & Coding	6024-345	65									6520-1107	PC,PCjr.,XT,AT,PPC	05Z
Coding	Modern Genetics: Chromosomes & Coding	6024-395	295									6520-1107	PC,PCjr.,XT,AT,PPC	05Z
COGS	Consumer Goods System - Allocation	5734-D32	3980		181							.GH20-6410	05/MFT/MVT/VS1/VS2	11C
COGS	Consumer Goods System - Forecasting	5734-D33	5320		242							.GH20-4409	05/MFT/MVT/VS1/VS2	11C
COGS	Consumer Goods System - Allocation	5736-D31	3980		181							.GH20-0721	D0S, D0S/VS	11C
COGS	Consumer Goods System - Forecasting	5736-D32	5320		242							.GH20-0722	D0S, D0S/VS	11C
-Coll	Coll & Univ Business Sys- Student Aid	5796-RHR	3960									.GB30-1767	System/34+5796-RHM	15X
-Coll	Coll & Univ Business Sys- Financial Acct	5796-RHT	6380									.GB30-1767	System/34	15X
-Coll	Coll & Univ Business Sys- Student Record	5796-RHM	6380									.GB30-1767	System/34	15X
-Coll	Info Syst for Attny - Accts Rec & Coll	5793-AEL	575									.GB30-6001	Lawyer Finance Mat	05H
-Collect	DPPX Plant Floor Collect & Lot Tracking	5798-DFG	3750		341							12.GB21-2881	DPPX+3640	15H
Collect	EDX Data Collect Interactive	5799-TDE	1425		31							GC34-1652	Series/1	15C
Collection	Accounts Receivable and Collection	5793-ARD	968									.GB30-2151	5793-AAZ+ABZ	05X
Collection	Data Collection System Support	5714-M4A	4410		157	3305		119				.GH30-0709	System/38	11D
+Collection	Data Collection System Support	5714-M7A	5180		260	4558						.GH30-9037	System/38	15E
Collection	Data Collection - Upgrade from MAPICS	5714-M7A/01	2030			1786						.4628,9619		15E
Collection	Data Collection System Support Mfg	5726-M4A	4115		167	3110		125				.GH30-0221	System/34	11X
Collection	Data Collection System Support	5727-M4A	4365		251	3260						.GH30-9002	CASS	15B

Keyword	Program Title	Number	OTC	ILC	MLC	DSO	DSI	DSM	HLP	MHL	Mo	MoreInfo	Environment	TPLS
-Collection	Data Collection	5727-M7A	4950		247	4355						.GH30-9006.CASS		15E
-Collection	Data Collection Edit & Transmit	5798-RCX	1820		138							12.GH30-1552 Series/1		15H
-Collection	Data Collection Host	5798-RDX	75									.GH30-1552 System/34 to S/1		15H
+Collection	GEM tm Collection	6205-284	199									GH30-2037 PC,XT,AT,KB/mouse		05Y
-Collection	Point-of-Sale Data Collection & Distrib	5798-NVA	3110		283							12.GH30-1397 Series/1		15H
Collection	5230 Data Collection Support	5726-M3A	1575		77							.GH30-0220 System/34		11C
Collections	Accts Receivable Collections Series 800	5793-ACL	440									.GH30-2415 S/36+5793ACH+ABZ		05H
-Collector	CICS/IMS Data Collector Capacity Plan	5798-DML	1815									.GB21-3057 OS/VS,CICS/VS		15X
-College	College Business Sys Student Aid & Bill	5796-RQD	4400									.GH30-2181 System/36		15X
-College	College Business Sys Financial Accta	5796-RQE	7150									.GH30-2181 System/36		15X
-College	College Business Sys Student Records	5796-RQF	7150									.GH30-2181 System/36		15X
Colleges	Admissions for Colleges & Universities	5796-PXA	6820									.G320-9194 System/38		15H
Colleges	Development for Colleges & Universities	5796-PXB	6820									.G320-9194 System/38		15H
Colleges/	Admin System for Colleges/ Student Recds	5796-PHY	7920									.G320-9194 System/38		15H
Colleges/	Admin System for Colleges/ Financial Aid	5796-PHZ	8800									.G320-9194 System/38		15H
+Color	Color Graphics Charting	4421-519	395									SC33-0223 3270-PC Graphics CP		05M
Color	Color Graphics Editor and Picture Plot	4421-760	385									GA33-3141 3270-PC/G cr GX+GCP		05H
Color	Color Paint	6024-299	99									G520-1107 PCjr+color		05Z
-Color	Color Text Presentation Facility	5798-DMZ	1210									.GB21-3086 3279GDDM+5748-AP1		15X
-Color	CADAM Express Versaplot Color Random	5664-286/01	6250									4532		15E
Color	Graphics and Color / Script	5798-DMW	3080									.GB21-3074 DCF (Script)		15X
Color	GDDM Graphics Data File - Color Support	5668-860	1100									GA23-0186 MVS,VM+371/2/3/5		15E
-Colorcopy	Colorcopy	5796-PTQ	1375									.G320-9151 VM,MVS		15X
COLORPLUS tm	Videotex/PC Ext Sup Updt Bl.0 to Bl.1	6265-471	30									G520-3917 PC,XT,AT+ACA+modem		05H
COLORPLUS tm	Videotex/PC Updt Bl.0 to Bl.1	6265-472	55									G520-3917 Non-subscriber		05H
COLORPLUS tm	Videotex/PC Version Bl.1 (Feature 9229)	6410-985	275									.G520-3917 PC,XT,AT+ACA+modem		05H
Colorview		6410-982	115									.G320-0387 A11		05H
COLTS	3614 3624 Consumer Online Transactions	5740-F51	22900		802							GH20-2019 OS/VS		11B
COLTS	3614 3624 Consumer Online Transactions	5746-F57	21150		741							GH20-2019 DOS/VSE		11B
+Com	COBOL to COBOL II & CICS Com Lev Con Aid	5785-ABJ	7000		350							.G320-9498 MVS,XA+VS COBOL II		15H
Com-Trol	EDX Interface Code ( Com-Trol ) FMS-2000	5796-RJT/01	220									.GH30-1847 2019		15H
Combination	Graphwriter tm Combination Set	6871-477	595									.GH30-2037 PC,XT,3270-PC		05Y
Combined	The Combined Adventures with Numbers	6276-609	40									PC,XT,jr,PPC,AT		05R
Comm	Hospital Info, Order Comm & Results Rept	5727-AB1/01	15000		750							.5B30-7049 6082		15H
-Comm	Mainframe Comm Asst 1.05 Upgr from 1.0	6024-449	85									6024140		05Z
Comm	Personal Telephone Mgr/Voice Comm Option	1642-004	70									PC,XT,AT+VoiceCommun		05G
Comm	Plant Auto Comm Sys/Mod Transfer Facilit	5798-RNN	1900									.G320-0836 MVS+VTAM+EDX on S/1		15H
+Comm	Print Services Fac - 3820 Comm Attach	3664-198/01	4000		200	3000		150				G544-3415 4789,4790,6586,6597		25M
Comm	RPS Prog Comm Subsys Preparation Facil	5719-CS0	525									GC34-0183 Series/1		15X
Comm	RPS Prog Comm Subsys Extend Exec Support	5719-CS2	1200									GC34-0186 Series/1		15X
Comma	Comma Cat	6024-293	49									G520-1107 PC,XT,PCjr,PP,At		05Z
Command	CICS/VS Command Level Programming Course	5798-DCX	1415									.GB21-2628 IIS,IIPS		1EX
Command	DPCX/DPPX Host Command Facility Ver 2	5668-985			200			150	41	66		GC27-0453 VTAM/E+NCCF		15K
Command	DPPX DPCX Host Command Facility	5735-XR1			128			96	36	58		GC27-0453 OS/VS,DOS/VS		15K
Command	DPPX/Base Command Facility Extensions	5760-010/01	600		25	578		21	11	17		GC27-0400 6006,6018,6019,6007		15K
Command	RPS Multiprocessing with Command Language	5719-PC6/01	5800									GC34-0471 9682,9683		15X
Command	RPS Ver 4 with Command Language	5719-PC4	3230		79							GC34-0202 Series/1		15C
Command	RPS Ver 4 without Command Language	5719-PC4/01	2475		60							GC34-0202 9572,9573		15C
Command	RPS Ver 5 with Command Language	5719-PC5	4940		187							GC34-0351 Series/1		15X
Command	T50 Command Processor	5798-AYF	1185									.GB21-1122 OS/VS2,MVS/XA		11H

Keywords - Alphabetic Sequence

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Codes Explained in Appendix B

Keyword	Program Title	Number	OTC	ILC	MLC	DSO	DSI	DSM	MLP	MML	No	MoreInfo	Environment	TPLS
Command	VM/CMS to OS/VSI Command Facility	5796-PQN	1650	350	100							.G320-6655	VSI under VM	15X
Commands	737x Industry Std Plotting Commands	5796-BDZ	395									GC23-0120	MVS,VM,RS232+FORTRAN	15X
Commercial	Bank Teller Ap - Commercial Extensions	5796-AZX	1580									.G320-6396	3600	15H
Commercial	Commercial Bank System Base Support	5746-F60			508							.GH20-2497	DOS/VSE and CIF/V5	15X
Commercial	Commercial Bank Demand Deposit Accounting	5746-F61			618							.GH20-2497	DOS/VSE+CBAS Base	15X
Commercial	Commercial Bank Savings Accounting	5746-F62			378							.GH20-2497	DOS/VSE+CBAS Base	15X
Commercial	Commercial Bank Time Deposit Certificate	5746-F63			292							.GH20-2497	DOS/VSE+CBAS Base	15X
Commercial	Commercial Bank General Ledger Accounting	5746-F64			269							.GH20-2497	DOS/VSE+CBAS Base	15X
Commercial	Commercial Bank System Revolving Credit	5746-F65			212							.GH20-2497	DOS/VSE+CBAS Base	15X
Commercial	Commercial Bank Club Accounting	5746-F66			238							.GH20-2497	DOS/VSE+CBAS Base	15X
Commercial	Commercial Bank Installment Loan	5746-F67			979					618		.GH20-2497	DOS/VSE+CBAS Base	15X
Commercial	Commercial Bank Commercial Loan Acctg	5746-F68			1615	618						.GH20-2497	DOS/VSE+CBAS Base	15X
Commercial	Commercial Bank Commercial Loan Acctg	5746-F68			1615	618						.GH20-2497	DOS/VSE+CBAS Base	15X
Commercial	CPS Commercial Arithmetic	5799-TBD	48		2						24	SC34-1566	Series/1	15C
Committed	Committed Cost / Cost History Feature	5727-M68/01	1815		106	1360		85				.GH30-9003	4566,4586,4619,6007	15B
Committed	Committed Cost/Cost History Feature Cons	5726-M68/01	1730		70	1300		51				.GH30-0707	6021,6026,6592,6526	11D
Common	Distribution Control - Common Features	5793-AAE	20570									.GB30-2064	CICS+DOS/V5	15X
Common	Distribution Control - Common Features	5793-ACA	20570		935							.GB30-2064	4300+MVS+ICIS/V5	15X
+Common	Golden Common LISP (R)	6205-279	495									.GB30-2037	PC,XT,AT	05Y
-Common	RPS Life Agency System - Common Base	5710-RTK	880		40							.GB30-2424	Series/1	15X
Common	RPS PC Connectivity - Common Sign & Menu	5710-RTJ	550									.GB30-2428	5799-TG+PC	15X
Common Log	FORTRAN Elementary Math Library	5799-BTB	300									.GH20-5370	VM,MVS+FORTRAN	15E
Communic	Event Driven Executive Communic Ver 1.2	5719-CF1	2200		67							GL23-0070	Series/1	15X
Communic	Plant Automation Communic - Sourcecode	5798-DRX/01	660		30							3000,3046		15H
Communications	Communicating Job Stream Processor	5798-RFC	715									.GB30-1628	Series/1	15H
Communication	Advanced Data Communication for Stores	5735-XR2	5455		248							.GH20-2188	DOS/VSE,05/V5	15E
Communication	Asynchronous Communication Support	6024-032	65									G520-3917	PC	05Z
Communication	ACP Advanced Communication Function	5748-T12/01			8025	3075						.GH20-6200	2111,6081	25E
-Communication	Binary Synchronous Communication	3608-SR2	260									G544-0851	Displaywriter	05E
Communication	Communication Oriented Message System	3668-0R7	11505		524							.GH12-5127	05/V5,MVS/XA+CICS/V5	15E
Communication	Communication Oriented Message System	5746-XDM	11520		524							.GH12-5127	DOS/V5	25B
Communication	Communication Support Facility 3694	5798-RQY	825									.GB30-2238	S/36+ICF+5748-F53	15X
Communication	Data Communication Service Release 2	5668-865	20000	1605	535								MVS,XA,VM	15E
-Communication	EDX Communication Controller	5798-ZZF	3025		275						12	.GB30-1579	S/38,34,5280,370	15X
Communication	EDX Yale ASCII Communication Sys II	5796-RKJ		407	137						24	.GB30-1901	Series/1	15X
-Communication	In-Store Data Communication Facility	5796-BDL	858									.G320-9129	Series/1	15X
Communication	Insurance Communication Service	7798-ICS	nc										Information Network	N05C
Communication	IMS Data Communication Feature	5665-332/05			5000			3750	575	920			6010,6510,5188	25K
Communication	IMS/360 Data Communication Feature	5734-XX6/01	8400		700				12			.GH20-0765	6022	25C
+Communication	Mainframe Communication Assistant	6024-451	199										PC,XT,AT,PCjr	05Z
+Communication	Mainframe Communication Assistant	6024-452	199										3.5" drive	05Z
Communication	Plant Automation Communication System	5798-DRX	8800		400							.G320-9245	EDX Communic Facil	15H
Communication	PSF/MVS 3820 Communication Attach Feat	5665-275/02	4000		200	3000		150					2161,6160	25K
Communication	PSF/VSE 3820 Communication Attach Feat	5666-319/01	4000		200	3000		150					2135,6037	25K
Communication	Remote Spooling Communication Subsystem	5796-PXF	3850									.G320-0323	VSE+VM+6670 line dvr	15X
Communication	Supermarket Communication Sys for 3660	5798-NTL			230						12	.GB30-1247	System/34	15H
-Communication	System/38 to S/1 Communication Utility	5798-RDY	605		55						12	.GB30-1579	System/38	15H
Communication	System/38 to 5520 Communication BSC	5796-PZJ	2475									.G320-9236	5714-551+5611-SS1	15H
+Communication	Voice Communication Operating Subsystem	6280-708	65										PC,XT,AT	05Z
-Communication	Wideband Communication Program	5796-PDJ	7260		660						12	.G320-5540	05/V51,05/V52	15H

Keyword	Program Title	Number	OTC	ILC	MLC	DSO	DSI	DSM	MLP	MML	Mo	MoreInfo	Environment	TPLS
Communication	3600 Host Support Finance Communication	5744-CA3	nc									GC27-0006	OS/VS	N05S
Communication	3600 4700 Finance Communication	5726-SS1/02	6200			254	4650	190				6010,6513,6557,6510		15A
Communication	3630 Plant Communication Host Services	5744-CR1	nc									GA24-3721	OS/VS	N05X
Communication	3630 Plant Communication System Host	5747-CJ1	nc									GA24-3721	D05/VS	N05X
<del>Communications</del>	<del>Asynchronous Communications</del>	<del>5608-SR1</del>	<del>260</del>									<del>G544-0851</del>	<del>Displaywriter</del>	<del>05E</del>
Communications	Asynchronous Communications	5715-AC1	600									GC34-0430	Sys/23 Datamaster	11X
Communications	Batch SNA Communications	6428-147	385									G320-9186	PC	05H
Communications	Binary Synchronous Communications	5715-BC1	850									GC34-0431	Sys/23 Datamaster	11X
Communications	Check Processing / Communications	5798-RKH	460									.GB30-1851	S/34 + 5748-FF5	15X
<del>Communications</del>	<del>Communications &amp; Systems Management</del>	<del>5732-826</del>	<del>5000</del>									<del>GX36-1000</del>	<del>5732-02745732-010</del>	<del>15M</del>
Communications	Communications Chain Facility - Batch	5798-FK	275									.GB30-1801	5288 Data System	15X
Communications	Computers and Communications	6024-069	39									0520-3917	PC,XT,PCjr,PPC+60	05Z
Communications	DisplayComm Bisynch Communications V1.1	6024-210	409									0520-1107	PC,AT+D05 2.1 or 3.0	05Z
Communications	Electric Desk tm	6187-242	345									.GB30-2037	PC,XT,3270-PC,AT	05Y
Communications	English Communications Skills II	5796-BBT	5080		385							G320-6433	IIS,IIIPS	1EH
Communications	EDX Communications Facility Version 2.1	5719-CF2	2500		178							L230-103	5719-HD2	15H
Communications	EDX Communications Upgrade from Version1	5719-CF2/01	300										9765	15H
Communications	EDX Communications Facility	5798-ZZC	968		44							36.GB30-1307	Series/1	15H
Communications	EDX Communications Facility - Airlines	5798-ZZE	1210		55							24.GB30-1550	Series/1	15X
Communications	EDX Host / Communications Facility	5668-979		562	215							.GH20-2485	OS/VS,D05/VSE,CICS	15X
<del>Communications</del>	<del>EDX S/1 to 3660 Communications System</del>	<del>5796-PTP</del>	<del>1210</del>									.G320-9149	Series/1	15X
Communications	EDX X.25 / HDLC Communications Support	5719-HD2	2750		162							.GC09-1026	EDX Version 4	15X
Communications	Host Interactive Store Communications	5798-DNH	26400		1200							.GB21-3117	MVS+ICICS	25H
Communications	Interactive Communications Feature	5726-SS1/01	3700		151	2775	114					G580-0295	6000,6511,6558,6509	15A
Communications	IMS/VS Data Communications Feature	5740-XX2/02			2250							GH20-1260	6172,6566	05K
Communications	Network Communications Control Facil V2	5664-175	1920	320		1740	290	33	44			GC23-0108	VM+ACF/VTAM3	15K
Communications	Network Communications Control Facil 2.2	5665-316	2730	455		2460	410	66	106			GC23-0108	XA+VTAM/TCAM	15K
<del>Communications</del>	<del>Network Communications Control Facil 2.2</del>	<del>5666-285</del>	<del>1110</del>	<del>185</del>		<del>996</del>	<del>166</del>	<del>22</del>	<del>35</del>			<del>GC23-0108</del>	<del>VSE+VTAM/TCAM</del>	<del>15K</del>
Communications	Network Communications Control Facil V2	5668-947	2250	375		2010	335	55	88			GC27-0657	MVS+VTAM,TCAM	15K
Communications	Network Communications Control Facil V1	5735-XX6	460	156		330	117	48	77			GC24-0429	ACF/VTAM6/TCAM/SSX	25K
Communications	Operator Communications Control Facility	5665-288		1050	350							GC24-5225	MVS,MCCF,ACF/VTAM	15K
Communications	Operator Communications Control Facility	5746-XC5	5800	155	5220	139	13	21				GC33-6113	VSE/AF Version 2	15K
<del>Communications</del>	<del>OS/6 Communications &amp; File Conversion</del>	<del>5798-NZH</del>	<del>785</del>	<del>157</del>								06.GB30-1431	System/34,32,3	15H
Communications	Personal Communications Mgr Feature 4100	6024-100	109									0520-3917	PC,PCjr,XT	05Z
Communications	Remote Spooling Communications Subsys V2	5664-188	6300		337	5355	287	38	61			GH24-5055	VM	15K
Communications	Remote Spooling Communications Subsys V1	5748-XP1	111				83	38	61			GH24-5004	VM/SP	15K
Communications	Remote Spooling Communications / SNA	5798-DMJ	4950									.GB21-3050	VM+RSCS	15X
Communications	RPS Communications Manager Version 2	5719-CM2	5550		413								Series/1+5719-A56	15X
<del>Communications</del>	<del>RPS MAP tm Communications Server</del>	<del>5719-XT2</del>	<del>9500</del>	<del>679</del>								5L23-0148	XHCS	15M
Communications	Symphony tm (Feature 9448)	6187-187	695									.GB30-2037	PC,XT,PPC	05Y
Communications	SSP Communications Feature	5727-SS1/02	nc									GC21-9021	4504,4505,4601	N15A
Communications	SSP Communications & System Mgt	5727-SS1/08	1000		53	875						GC21-9021	4536,4537,4662	15A
Communications	SSP Communications and System Mgt	5727-SS6/04	750			562						G580-0570	4775	05H
Communications	SSP Interactive Communications Feat	5727-SS1/03	4300		383	3785						GC21-9021	4506,4507,4602	15A
Communications	SSP Interactive Communications Feature	5727-SS6/01	3225			2418						G580-0570	4772	05H
Communications	Voice Communications API Reference	6280-743	149										PC,XT,AT+VoiceComOpt	05Z
Communications	VTAM Communications Network Applications	5735-RC5		1100	402		825	302	135	215		GC27-0501	VM/SP+D05/VSE,V51	25K
Communications	WESTLAW (R) Communications Session Mgr	6428-162	350									0520-3917	PC	05X
Communications	Yale ASCII Communications - Host Loaded	5798-RRJ	4070									.GB30-2317	VM to EDX to 4994	15X
Communications	Yale ASCII Terminal Communications	5796-RBT	3450		157							24.GB30-1509	Series/1	15H

Keywords - Alphabetic Sequence

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Codes Explained in Appendix B



Keyword	Program Title	Number	OTC	ILC	MLC	DSO	DSI	DSM	MLP	MHL	Mo	MoreInfo	Environment	TPLS
+Communicatn	Advanced Program to Program Communicatn	6467-038	150										PC,PPC,XT,AT+adapter	05H
Community	Community Mental Health MIS	5796-PXX	7700									.G320-0330	System/36	15H
Comp+Libr	FORTRAN 77 Professional ANSI Comp+Libr	6024-200	649									0520-1107	8087/80287+DOS 2.1+	05Z
COMPACT	CADAM (R) to COMPACT II (R) Interface	5796-BDG	18900	1440	480	12600	963	321					05/VS,VM+GAM	15E
Compare	Source Compare Audit Utility	5796-PLZ	2640		100							.G320-6163	VSI VM/CMS MVS	11H
Compatibility	DPPX 3270 Data Stream Compatibility	5760-RC1	750		28	637		24	38	61		GC27-0400	DPPX	15K
Compatibility	1400 Compatibility Access Routine	5798-CDB	500									.GB21-1546	DOS/VS	11H
-Compatibility	3270 Data Stream Compatibility	5608-SR6	600									0544-2049	Displaywriter	05E
Compiler	PL/I Optimizing Compiler & Library XT/370	5734-PL3/01	1008		22								300,3005	05C
Compilers	MVS Productivity System	7793-MVS	nc										Information Network	H05C
Composed	Composed Document Printing Facility 4250	5668-997	4800		342			49	78			GC33-6133	SCRIPT and/or GDDM	15K
Composer	Professional Visual Aid Composer	5798-DTB	1500									.G320-0813	GDDM+PGF	25S
Composition	Composition Utility Version 2	5798-RML	4500										GDDM	25H
Composition	Document Composition Facility DCF	5748-XX9		972	324								VM,VSE,MVS	15E
Composition	Document Composition Facility XT/370	5748-XX9/02	864		19								3003,3008	05C
Composition	Document Composition Training	5796-PNE	1320									.G320-6331	I1S,I1PS	1EH
Composition	Interactive Composition and Editing Ver2	5798-DTD	25000		1250							.G320-9798	VM+4250 or 3800 III	25H
-Composition	Letterwriter for Document Composition	5798-DMT	550									.GB21-3072	5748-XX9	15X
Comprehension	Reading Comprehension Skills (Priv Tutor	6024-325	55									0520-1107	PC,PCjr,XT,AT,PPC	05Z
-Compression	Data Compression / Expansion	5798-ATB	106									.GB21-0938	D05/05	05H
Compression	DPPX Data Compression - Host	5798-DJL	1265									.GB21-2953	MVS + 5798-DJN	15X
Compression	DPPX Data Compression - Controller	5798-DJN	330									.GB21-3007	DPPX + 5798-DJL	15X
Compression	EDX Data Backup with Compression	5798-RCH	275									.GB30-1555	Series/1	15X
-Compression	IMS/VS Data Compression Facility	5798-DCJ	1120									.GB21-2612	05/VS,MVS/XA	15H
Compression	SMF Job Data Compression Aid	5796-PHN	4290		187							.G320-5716	05, 05/VS, MVS/XA	11X
Computation	Math Computation Skills (Private Tutor)	6024-305	55									0520-1107	PC,PCjr,XT,AT,PPC	05Z
-Computer-Assist	Computer-Assisted Training II	5798-NZA	715	143								06.GB30-1481	System/34	1EH
Computer-Assist	Inven/34 - Computer-Assisted Inventory	5798-MHX	550	488								12.GB30-1102	System/34	15H
Computer-Assist	5280 Computer-Assisted Training	5798-RLF	550									.GB30-1925	5280 Data System	15X
Computer-Based	DisplayWrite 2 Computer-Based Training	7732-281	250									0320-1244	PC,AT+DisplayWrite 2	05C
*Computer-Based	DisplayWrite 3 Computer-Based Training	7732-284	300											05C
+Computer-Integr	Computer-Integrated Electrical Design	5668-878	75000		2500	52500		1750					VM+GDDM/graPHIGS	15E
+Computer-Integr	Computer-Integrated Electrical Design	5669-191	6000										AT	05G
+Computer-Integr	Computer-Integrated Electrical Design	5669-192	8000										RT AIX	05H
+ComputerAided	ECAEDS (R) Base Version 2.0	5713-AAE	7825		265	5480		185					VM,MVS	15E
+ComputerAided	ECAEDS (R) Object Modeler	5713-ABC	varies		445								Base	V1UE
+ComputerAided	ECAEDS (R) System Modeler	5713-AAC	varies		605								Base	V1UE
+ComputerAided	ECAEDS Graphics Finite Element Modeler	5713-AAD	varies		600								Base	V1UE
+ComputerAided	ECAEDS Integrated Finite Element Solver	5713-AAE	varies		485								Base	V1UE
+ComputerAided	ECAEDS System Dynamics Analysis	5713-AAF	varies		1050								Base	V1UE
Computers	Computers and Communications	6024-069	39									0520-3917	PC,XT,PCjr,PPC+60	05Z
Computing	Interactive Computing & Control Facility	5666-302	5595		214	5035		192	12	19		GX33-9011	VSE/AF+CICCS	15K
Computing	Interactive Computing & Control Facility	5746-TS1			161			144	28	45		GC33-6066	D05/VSE+VTAM,BTAM-ES	15K
Computing	McGill U System Interactive Computing V	5796-PQA			624							.G320-6629	VM/CMS	15X
Computing	Virtual Storage Personal Computing - V2	5665-283			2050			1537	214	342		GH20-9192	MVS	15K
Computing	Virtual Storage Personal Computing	5740-XR6			1520			1020	220	352		GH20-9070	MVS	15K
+Con	COBOL to COBOL II & CICS Com Lev Con Aid	5785-ABJ	7000		350							.G320-9498	MVS,XA+VS COBOL II	15H
+Concept	Concept Devt: Heat, Temperature & Graphs	6024-474	75										128k+ccolor	05G
Concepts	Basic Number Concepts (Private Tutor)	6024-297	55									0520-1107	PC,PCjr,XT,AT,PPC	05Z
+Concepts	Math Concepts Series: Grades 1-2	6024-355	175									0520-1107	PC,XT,PCjr,AT 128k	05Z

Keyword	Program Title	Number	OTC	ILC	MLC	DSO	DSI	DSM	MLP	MML	Mo	MoreInfo	Environment	TPLS
+Concepts	Math Concepts Series: Pre-school	6024-356	150									G520-1107	PC,XT,PCjr,AT 128k	05Z
+Concepts	Math Concepts Series: Grades 3-4	6024-357	175									G520-1107	PC,XT,PCjr,AT 128k	05Z
+Concepts	Math Concepts Series: Grades 1-2	6024-368	789									G520-1107	PC,XT,PCjr,AT 128k	05Z
+Concepts	Math Concepts Series: Grades 3-6	6024-369	789									G520-1107	PC,XT,PCjr,AT 128k	05Z
+Concepts	Math Concepts Series: Pre-school	6024-370	675									G520-1107	PC,XT,PCjr,AT 128k	05Z
+Concepts	Math Concepts Series: Grades 5-6	6024-417	879									G520-1107	PC,XT,PCjr,AT 128k	05Z
+Concepts	Math Concepts Series: Grades 7-8	6024-419	879									G520-1107	PC,XT,PCjr,AT 128k	05Z
+Concepts	Math Concepts Series: Grades 5-6	6024-427	195									G520-1107	PC,XT,PCjr,AT 128k	05Z
+Concepts	Math Concepts Series: Grades 7-8	6024-429	195									G520-1107	PC,XT,PCjr,AT 128k	05Z
+Concurrent tm	D4680 Operating System	5669-033	1250									SC30-3367	AT Store Controller	1SM
+Concurrent tm	D4680 Operating System Mult Contrlr Feat	5669-033/01	625			437						SC30-3367	4606,9001,5898	1SM
Condensed	Helvetica Condensed and Expanded tm	5771-ACB	1120									G520-0004	CDPF	1SE
Condensed	Unvers Condensed tm	5771-ACA	640									G520-0004	CDPF	1SE
Conferencing	Cooperative Viewing Facility Version 2	5664-296	5280									G520-6005	VM	2SA
Conferencing	EDX Videotex System SVS/1	5799-TFN	13750									G520-3992	Series/1	1SX
Configuration	Multi-System Configuration Mgr for 3814	5665-342			750			675	70	112		GC23-0172	MVS	1SK
Configuration	Network Configuration Tool	5798-RLT	962									0B30-1991	System/38	1SX
-Configuration	VTAM Configuration and Generation Aid	5798-CTL	1375		275						06	0B21-2233	D05/VS	0IH
Conflict	Attorney Practice - Conflict of Interest	5793-ABH	3850									0B30-2160	5793-ABL+ABZ	0SX
Conflict	Client Files, Conflict & Dates System	6187-249	490									0B30-2037	XT,AT	0SY
Conflict	Conflict of Interest Series 800	5793-ACQ	1650									0B30-2415	5/36+5793ACL+ABZ	0SH
Conflict	Info Syst for Attny - Conflict Interest	5793-ADM	750									0B30-6000	Client/Matter Record	0SH
Conflict	Info Syst for Attny - Conflict Interest	5793-AEH	2275									0B30-6001	Client/Matter Record	0SH
Conflicts	Client Files, Conflicts and Dates	6187-267	100										PC	0SY
Congress	Library Congress Marc to Dortmund Dmarc	5796-PPZ	577									G320-9132	D05,VS1,MVS	1SX
+Connect	RPS Office Connect 1.0	5719-XT3	6600									GC09-1116	Series/1	1UM
Connect	Series/1-PC Connect	5719-CM1	400									G520-0102	RPS and D05	1SL
Connection	DPFX Distributed Connection Facility	5798-DKX	990									0B21-3025	DPFX	1SX
Connection	PROFS Personal Computer Connection to VM	6410-984	219									G320-0652	PROFS+ISPF/PC+DOS2+	0SH
Connection	Requirements Planning Connection Records	5734-M51/0	1085			36						0H20-4618	4541,4543	1IC
Connectivity	RPS PC Connectivity - Common Sign & Menu	5710-RTJ	550									0B30-2428	5799-TGC+PC	1SX
Connectivity	RPS PC Connectivity - Printer Emulation	5710-RTJ/01	385										2110	1SX
CONNEXION	IX CONNEXION Compiler (DIBOL tm)	6317-043	850									G320-0912	PC/IX	0SH
CONNEXION	IX CONNEXION Compiler (DIBOL tm)	6317-062	975									G320-0912	XENIX tm	0SH
CONNEXION	IX CONNEXION Runtime (DIBOL tm)	6317-044	425									G320-0912	6317043	0SH
CONNEXION	IX CONNEXION Runtime (DIBOL tm)	6317-063	500									G320-0912	6317062	0SH
Conservation	Energy Conservation System II	5798-RLD	4480									0B30-1912	Series/1	1SX
-Conservation	EDX Energy Conservation System	5798-RAB	3585			163					24	0B30-1450	Series/1	1SH
+Conservation	Investigating Conservation of Energy	6024-406	75									G520-1107	PC,PCjr,XT,AT+color	0SZ
Consolidated	Consolidated Functions Ordinary Vers 2	5736-N13	10370			500						0H20-5006	05/005	1IC
Construction	Accounts Payable - Construction SPM	5726-M62	1625			78						0H30-0707	System/34	1IC
-Construction	Construction Data Entry/Edit Support	5798-RBZ	605			55					12	0B30-1516	5280 Data System	1SH
-Construction	Construction Information - Job Costing	5796-ZAP	1705									0B30-1728	Sys/23 Datamaster	1IH
-Construction	Construction Information - Payroll	5796-ZAQ	1925									0B30-1728	Sys/23 Datamaster	1IH
-Construction	Construction Information - Accts Payable	5796-ZAR	1815									0B30-1728	Sys/23 Datamaster	1IH
-Construction	Construction Information - Genl Ledger	5796-ZAT	1705									0B30-1728	Sys/23 Datamaster	1IH
-Construction	Construction Info System - Payroll	5796-ZDM	2420									0B30-2082	Datamaster+5247	1SX
-Construction	Construction Info System - Accts Payable	5796-ZDX	2310									0B30-2082	Datamaster+5247	1SX
-Construction	Construction Info System - Job Costing	5796-ZDY	2145									0B30-2082	Datamaster+5247	1SX
-Construction	Construction Info System - General Ledgr	5796-ZDZ	2145									0B30-2082	Datamaster+5247	1SX

Keyword	Program Title	Number	OTC	ILC	MLC	DSO	DSI	DSM	MLP	MHL	Mo	MoreInfo	Environment	TPLS
+Construction	Construction Inventory	5796-ZPP	3000									.GB30-6016	5727-M6X/M66	15H
Construction	CADAM (R) Design/Build/Manage	5668-853	20000	1765	535	13400	1185	395					5796-ATA,ATB,PTH	15E
Construction	Distribution Construction Information	5712-AAB	60500		5500							12.GE20-0613	DOS/OS/IMS/CICS/VS	05C
Construction	General Ledger - Construction	5726-M64	1310		62								.GH30-0707 System/34	11C
Construction	General Ledger - Construction	5726-M67	2360		98	1770		73					.GH30-0707 System/34	11D
Construction	Interactive Cost Estimating - Base	5710-RTN	12650										.BG30-2450 System/36	15H
Construction	Interactive Cost Estimating - Base	5710-RTR	12650										.BG30-2450 System/36	15H
Construction	Job Costing - Construction	5726-M61	1310		62								.GH30-0707 System/34	11C
Construction	Job Costing - Construction	5726-M66	2360		98	1770		73					.GH30-0707 System/34	11D
Construction	Maintenance & Construction Costing System	5796-PXT	11000										.G320-0338 System/34,36+COBOL	15H
Construction	Payroll - Construction	5726-M63	2255		109								.GH30-0707 System/34	11C
-Construction	PL/I Language Construction Preprocessor	5796-PLL	1690		154							12.G320-6096	OS/VS, VM/CMS	15H
Construction	Revenue Accounting Construction A/R	5726-M6A	3725		151	2795		112					.GH30-0707 System/34	11D
+Consultation	Expert System Consultation Environment	5798-DXA	25000		1250								.G325-0040 MVS	25H
Consultation	Expert System Consultation Environment	5798-RHP	25000		1250								.G320-0828 VM	25H
Consulting	Cooperative Viewing Facility Version 2	5664-296	5280		330								.G520-6005 VM	25A
Consumer	Consumer Goods System - Allocation	5734-D32	3980		181								.GH20-4410 OS/MFT/MVT/VS1/VS2	11C
Consumer	Consumer Goods System - Forecasting	5734-D33	5320		242								.GH20-4409 OS/MFT/MVT/VS1/VS2	11C
Consumer	Consumer Goods System - Allocation	5736-D31	3980		181								.GH20-0721 DOS, DOS/VS	11C
Consumer	Consumer Goods System - Forecasting	5736-D32	5320		242								.GH20-0722 DOS, DOS/VS	11C
Consumer	Consumer Terminal Access Method	5799-AZN	361		361								.GH20-4576 3624 DEVICES	15C
Consumer	3614 3624 Consumer Online Transactions	5740-F51	22900		802								.GH20-2019 OS/VS	11B
Consumer	3614 3624 Consumer Online Transactions	5746-F57	21150		741								.GH20-2019 DOS/VSE	11B
+Consumer	4700 Resource Mgr - Consumer Loan Applic	5668-778	1200										4700 CRM Ver 2	15M
+Consumer/Consum	BANCS*tm 4700 Consumer/Consumer Loan	6430-786	1995										PC,XT,AT+4700	05E
Contents	CPS Disk Table of Contents	5799-TAW	28		1						24	SC34-1561	Series/1	15C
Context	Context MBA tm (Feature 9147)	6871-394	174										PC	05Y
Context Search	Information/Library	5665-277		536	205		401	154	15	24		.GH12-5136	MVS, XA+NCCF	15K
Continuous	Continuous System Modeling Program III	5734-XS9	2705		123								.GH19-7000 VS1/VS2-VM	11C
-Continuous	Continuous System Modeling - API	5785-KAE	2285		104						24	.G320-6081	5748-API	15H
Contrlr	CAMM General Electric tm Contrlr Offline	5793-AEY/07	500										6511	05Y
Contouring	APT Advanced Contouring Release 4	5740-M53			1185							.GH20-1423	OS/VS, XT/370	15E
Contouring	APT Advanced Contouring XT/370 Feat	5740-M53/01	1500		75								3013,3014	05C
Contouring	APT Intermediate Contouring	5740-M52			713							.GH20-1424	OS/VS	15E
Contouring	APT Intermediate Contouring XT/370	5740-M52/01	1000		50								3011,3012	05C
+Contract	Auto Dealer - Contract Preparation	5796-ZPD	3550										.GB30-6013 System/36	15H
Contract	Programmed Eval of Contract Option Strat	6276-614	250										PC,XT,JR,AT,3270-PC	05R
Contractor	Drywall Contractor Module	5710-RTQ	2200										.GB30-2450 5710-RTQ	15H
Contractor	Electrical Contractor Module	5710-RTT	8250										.GB30-2450 5710-RTR	15H
Contractor	General Contractor Module	5710-RTP	8250										.GB30-2450 5710-RTN	15H
Contractor	Interactive Cost Estimating - Base	5710-RTN	12650										.BG30-2450 System/36	15H
Contractor	Mechanical Contractor Module	5710-RTY	3850										.GB30-2450 5710-RTR	15H
Contractor	Plumbing Contractor Module	5710-RTW	3500										.GB30-2450 5710-RTR	15H
+Contrlr	4680 Operating System Mult Contrlr Feat	5669-033/01	625			437							SC30-3367 4606,9001,5898	15M
Controlled	FDX Controlled Access System Software/2	5796-RNP	9350										.G320-9156 Series/1	25X
Controller	Attorney Info Sys - Controller System	5793-ABZ	192										.GB30-2151 System/36	05X
Controller	CAMM Allen-Bradley Controller Offline	5793-AEY/05	500										6509	05Y
Controller	CAMM Allen-Bradley Controller Online	5793-AEY/11	1750										.GB30-2037 6513	05Y
Controller	CAMM Analogic tm Controller Offline	5793-AEY/06	500										6510	05Y
Controller	CAMM Analogic Controller Online	5793-AEY/12	1750										.GB30-2037 6514	05Y

Keyword	Program Title	Number	OTC	ILC	MLC	DSO	DSI	DSH	MLP	MML	Mo	MoreInfo	Environment	TPLS
Controller	CAMM General Electric Controller Online	5793-AEY/13	1750									GB30-2037	6515	05Y
Controller	CAMM Modicon tm Controller Offline	5793-AEY/08	500										6525	05Y
Controller	CAMM Modicon Controller Online	5793-AEY/14	1750									GB30-2037	6527	05Y
Controller	CAMM Turnbull Controller Offline	5793-AEY/10	500										6512	05Y
Controller	CAMM Turnbull Controller Online	5793-AEY/16	1750									GB30-2037	6516	05Y
Controller	CAMM TIMAY tm Controller Offline	5793-AEY/09	500										6526	05Y
Controller	CAMM TIMAY Controller Online	5793-AEY/15	1750									GB30-2037	6528	05Y
Controller	DPPX Data Compression - Controller	5798-DJN	330									.GB21-3007	DPPX + 5798-DJL	15X
Controller	EDX Communication Controller	5798-ZZF	3025									12.GB30-1579	S/38,34,5280,370	15X
Controller	Info Syst for Attny - Controller System	5793-ADR	175									.GB30-6000	System/36 PC	05H
Controller	Info Syst for Attorneys - Controller Sys	5793-AEF	175									.GB30-6001	System/36 PC	05H
+Controller	SNA Cluster Controller Release 1	5732-021	8100									SX34-0173	SDLC Protocol Suppt	15M
Controller	4700 Advanced Branch Controller Version2	5799-9ZE	1200										4700 Host Support	15E
+Controller	4700 Controller Resource Manager Ver 2	5668-753	1700										4700 FCS	15M
Controller	4700 Finance System - Controller Manager	5668-935	1300										5668-989+5668-934	15K
Controllers	EDX to Allen-Bradley (R) Controllers	5719-THC	5000									GC34-0099	5719-CF1	15H
+Convence	5250 Enhanced Emulation 2.1 Convence Kit	55X3-364	845									G570-2221	PC,XT,AT,PPC	05Z
Convenience	Displaywriter/PC Attach Convenience Kit	6403-728	495									G544-2280	Textpack4+6024107	05E
Convenience	5218 Printer Attachment Convenience Pac	6113-651	220									G570-2063	PC,XT	05Z
Convenience	5250 Emulation Convenience Kit	6092-656	745									G520-1107	PC+S/34,38	05X
Convenience	5520 Installation Convenience Kit	6109-558/01	729										2882	05E
-Conversion	Autocoder to COBOL Conversion Aid Program	5798-CNH	1230									.GB21-2022	VM/CMS	01H
Conversion	Batch to SSX/VSE Conversion Aid	5785-KAJ	407									.G320-9191	SSX/VSE	15X
+Conversion	BASIC Conversion Aid from BASIC Four	5798-DWB	3000									.G320-0830	System/38	15H
Conversion	BASIC 5110/5120 to Sys/23 Conversion Aid	5715-CV1	875									GC34-1693	Sys/23 Datamaster	11E
Conversion	Character Conversion Aid	5665-299	1100									MVS+5748-XXH+AP1		01E
Conversion	Conversion Reformat Utility	5714-CV2	600			20	528	18				GC21-7779	System/38	15A
Conversion	CICS/VS Conversion Utility	5798-DPL	7700			350						.3200-442	CICS COBOL or PL/I	15H
-Conversion	COBOL Conversion from Honeywell (R)	5785-JAA	3300									.GB21-2858	DS/VS, DDS/VSE, VM/370	05H
-Conversion	COBOL Conversion Aid from Univac (R)	5785-JAC	3300									.GB21-2763	DDS/VSE DS/VS	05H
-Conversion	COBOL Conversion Aid from NCR (R)Century	5798-APG	2315									.GB21-0839	DDS/VS	01H
-Conversion	COBOL Conversion from Burroughs (R) 2500	5798-APH	2435									.GB21-0836	DDS/VS	01H
-Conversion	COBOL Conversion Aid to System/38	5798-NXM	632									.GB30-1362	System/38	05H
-Conversion	COBOL Conversion Aid from NCR 8200	5798-NYR	900									.GB30-1433	System/34	05H
Conversion	COBOL Conversion Aid	5798-RGT	1430									.GB30-1764	System/38	05X
-Conversion	COBOL/PL/I Conversion Aid - VSE to MVS	5785-EBG	4330									.GB21-2792	DDS/VSE, MVS, VM/CHS	01H
+Conversion	File Conversion Utility	6276-629	30									PC,XT,PCjr,AT,3270PC		05R
-Conversion	FORTRAN Conversion Aid from non-S/370	5796-PFG	5500			250						.G320-8154	DS/VS, VM/CMS	11H
+Conversion	FORTRAN Language Conversion Program	5668-864	28000									GC23-0145	VM, MVS, XA+DFP	05E
Conversion	JCL Conversion Aid from VSE to MVS or XA	5798-DPH	11000			500						.G320-0460	VSE and MVS	15H
-Conversion	Magnetic Card Conversion	5608-SR3	525			240						G544-0851	Displaywriter	05E
Conversion	Online to CICS-RPGII Conversion Aid	5785-DFB	1015									.G320-9191	SSX/VSE	15X
-Conversion	OS/6 Communications & File Conversion	5798-NZH	785			157						06.GB30-1451	System/34,32,3	15H
Conversion	RPG II Conversion Preprocessor	5735-CV1	660									GH20-4532	S/3 to DDS/VS	01C
Conversion	S/3 to S/38 Batch Conversion Aid	5798-RBC	759									.GB30-1504	System/38	05H
Conversion	S/3 to S/38 Batch Conversion Aid	5798-RDK	715									.GB30-1585	System/38	05H
Conversion	S/3 CCP to S/38 Conversion	5714-CV7	2810									GC21-7772	System/38	05X
-Conversion	S/3 DBT to S/38 Conversion Aid	5798-NYN	271									.GB30-1389	System/3	05H
-Conversion	S/3 OCL to DDS/VS JCL Conversion Aid	5798-CQJ	660									.GB21-2130	DDS/VS	05H
-Conversion	Sys/3 to Sys/34 Conversion Aid	5798-NTE	474									.GB30-1231	System/34	05H

Keywords - Alphabetic Sequence

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Codes Explained in Appendix B

Keyword	Program Title	Number	OTC	ILC	MLC	DSO	DSI	DSH	MLP	MML	Mo	MoreInfo	Environment	TPLS
Conversion	System/3 to System/36 RPG-II Conversion	5798-DQR	330									.G320-0342	System/36	15H
Conversion	System/34 to System/38 Conversion	5714-CV5	1625									GH30-0460	System/38	05D
Conversion	System/36 to S/38 Conversion Aid 1.2.0	5714-CV9	600									GC21-8025	S/36+S/38	11A
Conversion	Word Processor File Conversion	5798-DFY	915									.GB21-2821	OS/V5, D05/V5E	05H
Conversions	TRANSLATOR Burroughs (R) COBOL 1800-1900	5796-PXY	46200									.G320-9204	MVS+ISPF	05H
Convrsn	OCL Online Procedure & Menu Convrsn	5785-DFD	709									.G320-9191	System/34+CICS/SSX	15X
Cooperative	Cooperative Viewing Facility Versn 2	5664-296	5280		330							.0520-6005	VM	25A
+Coor	VM Bond Tech Coor Support Release 2	6667-043	400									GH24-5089	VM Bond Release 2	05M
Coordinator	VM/PC Bond Technical Coordinator SuptPkg	6314-143	275									GH24-5089	PC Bond+PC.XT,XT/370	05H
COPICS	Customer Order Servicing Data Management	5785-DCN	9710	294								.GB21-2633	D05/V5E, OS/V5	15E
COPICS	Customer Order Servicing Order Management	5785-DCP	9710	294								.GB21-2633	D05/V5E, OS/V5	15E
COPICS	COPICS Bill of Material Online II	5785-GBA	4725	142								.GB21-2638	D05/V5E OS/V5 DL/I	15E
COPICS	COPICS Bill Material Batch Utilities II	5785-GBC	2490	75								.GB21-2640	D05/V5E OS/V5 DL/I	15E
+COPICS	COPICS Capacity Requirements Planning	5668-829	18000	900								.GH19-6413	CICCS+IMS/DL/I+COBOL	15E
+COPICS	COPICS Executive Data Link	5785-DFH	10000	500								.GB30-5056	XT,AT,3270-PC+Emultn	15H
COPICS	COPICS Facilities Data Management	5668-907	9765	297								.GH19-6357	COBOL+CICCS+IMS,DL/I	15B
COPICS	COPICS Inventory Accounting II	5785-GBE	3475	105								.GB21-2644	D05/V5E OS/V5 DL/I	15E
COPICS	COPICS Inventory Planning Forecasting II	5798-DCR	8575	259								.GB21-2650	D05/V5E, OS/V5 DL/I	15E
COPICS	COPICS Material Requirements Planning II	5785-GBF	5215	158								.GB21-2646	D05/V5E OS/V5 DL/I	15E
COPICS	COPICS Online Routing	5740-XYX	13560	411								.GH12-5138	OS/VS,IMS,CICCS,DL/I	25E
COPICS	COPICS Online Routing	5746-XY1	13560	411								.GB21-2650	D05/V5E, OS/V5 DL/I	15E
COPICS	COPICS Plant Monitoring - Host Interface	5798-DFR	5705	173								.GB21-2842	OS/V5 VSE 5798-DFI	15E
COPICS	COPICS Plant Monitoring & Control - 8100	5798-DFT	21500	653								.GB21-2842	DPXX 5798-DFR	15E
COPICS	COPICS Product Cost Calculations II	5785-GBD	5705	173								.GB21-2642	D05/V5E OS/V5 DL/I	15E
COPICS	COPICS Purchasing	5785-GAX	12470	379								.GB21-2772	D05/V5E, OS/V5 DL/I	15E
COPICS	COPICS Receiving	5785-GAZ	8690	264								.GB21-2774	D05/V5E, OS/V5 DL/I	15E
COPICS	COPICS Shop Order Load Analysis Reporting	5668-908	15430	469								.GH19-6356	CICCS+COBOL+IMS,DL/I	15B
COPICS	COPICS Shop Order Release II	5798-DCQ	11490	372								.GB21-2648	D05/V5E, OS/V5 DL/I	15E
COPICS	Management Information	5798-RTG	3600									.GB30-2407	VSE, MVS+COBOL	15H
COPICS	Master Production Schedule Planning	5668-898	31500	1380								.GH30-0737	CICCS+COBOL+IMS,DL/I	15E
COPICS	TRY-COPICS	7798-COP	nc										Information Network	N05C
COPICS COS	Customer Order Servicing - Shipping Mgmt	5668-906	14070	428								.GH19-6369	CICCS+VMS or DL/I	15B
+COPICS/EDL	COPICS Executive Data Link	5785-DFM	22000	500								.GB30-5056	XT,AT,3270-PC+Emultn	15H
+Copier/Postage	Disbursements from Copier/Postage	5793-ABX	2200									.GB30-2170	5793-AAZ+ABZ	05X
Copy	CADAM (R) - Hard Copy Entry System	5796-PTH/03	12348	300								.G320-6063	6036,6134	15E
-Copy	Diskette Copy	5796-PNT	781	71							12	.G320-6406	VM/CMS	15H
Copy	Diskette Copy Program	5744-BJ1	nc									GC24-5109	OS/V51	N05C
Copy	Diskette Copy Program	5744-BL1	nc									GC24-5109	OS/V52	N05C
Copy	Fast Copy Data-set Program	5746-AM4	499					5	8			GC33-6081	D05/V5E	15K
Copy	SSX/VSE Fast Copy	5799-BNF/03	85	5	77			5				4860,4861,4862,4863		25K
-Copy	Universal Dump, Alter, Copy, & Select	5796-BAF	50								12	.G320-6405	OS/V5	15H
Copy	VSE/SP Fast Copy Feature	5666-316/07	454	22	409			20						15
Copy	VSE/SP Fast Copy Feature	5799-BNB/08	378	20	340			18				4516,4927,4966,4967		15K
Copy	VSE/SP Fast Copy Feature	5799-BNC/08	454	23	409			21				4574,4938,4990,4991		15K
CORMES	Communication Oriented Message System	5668-007	11505	524								.GH12-5127	OS/VS, MVS+XA+CICCS/V5	15E
CORMES	Communication Oriented Message System	5746-XXM	11520	524								.GH12-5127	D05/V5	25B
Corporate	Corporate Cash Manager	5601-006	4400									.GH20-0391	PC,XT	05H
-Correlation	Mass Storage Trace SMF Correlation Aid	5796-PJX	3010	137							24	.G320-5810	OS/V5, MVS/XA	11H
Correspondence	Personal Correspondence Manager	6276-615	40									PC,XT,jr,AT,3270-PC		05R
COS	Master Production Schedule Planning	5668-898	31500	1380								.GH30-0737	CICCS+COBOL+IMS,DL/I	15E

Keyword	Program Title	Number	OTC	ILC	MLC	DSO	DSI	DSM	MLP	MML	Mo	MoreInfo	Environment	TPLS
Cost	BPI (R) Job Cost	6187-168	795										PC	05Y
Cost	BPI (R) Job Cost	6187-215	50										PC	05Y
Cost	Committed Cost / Cost History Feature	5727-M68/01	1815			106	1360		85				.GH30-9003.4566,4586,4619,6007	15B
Cost	Committed Cost / Cost History Feature	5727-M68/01	1815			106	1360		85				.GH30-9003.4566,4586,4619,6007	15B
Cost	Cost Evaluation Processor Feature	5740-XP1/02	1383			90							.GH19-1055.6006,6222	11B
Cost	Cost Evaluation Processor Feature	5740-XP1/02	1383			90							.GH19-1055.6009,6155	11B
Cost	Cost Processor Feature	5734-XP4/01	1935			88							.GH20-0855.6016,6017,6200	01B
Cost	COPICS Product Cost Calculations II	5785-0BD	5705			173							.GB21-2642.D05/VSE OS/VS DL/I	15E
Cost	Interactive Cost Estimating - Base	5710-RTN	12650										.HG30-2450 System/36	15H
Cost	Interactive Cost Estimating - Base	5710-RTR	12650										.GH30-2450 System/36	15H
Cost	Job Cost System by BPI tm	6024-029	550										.G520-3917 PC	05Z
Cost	Timberline Job Cost	6871-524	2390										.GB20-2037 PC,XT,AT	05Y
-Cost management	Construction Information - Job Costing	5796-ZAP	1705										.GH30-1728 Sys/23 Datamaster	11H
Cost management	TRY-COPICS	7798-COP	nc										Information Network	N05C
Cost/Cost	Committed Cost/Cost History Feature Cons	5726-M68/01	1730		70	1300		51					.GH30-0707.6021,6026,6592,6526	11D
+Costing	Acctg Assistant Series - Job Costing	6317-054	595										PC,XT,AT	05Z
+Costing	Acctg Assistant Series - Job Costing	6467-008	595										3.5" disk	05Z
-Costing	Construction Information - Job Costing	5796-ZAP	1705										.GH30-1728 Sys/23 Datamaster	11H
-Costing	Construction Info System - Job Costing	5796-ZDY	2145										.GH30-2082 Datamaster+5247	15X
Costing	Job Costing	5727-M66	2475		145	1855							.GH30-9003.CASS	15B
Costing	Job Costing - Construction	5726-M61	1310			62							.GH30-0707 System/34	11C
Costing	Job Costing - Construction	5726-M66	2360			98	1770		73				.GH30-0707 System/34	11D
Costing	Maintenance & Construction Costing System	5796-PXT	11000										.G320-0358 System/34,36+COBOL	15H
Costing	Payroll and Labor Costing - Construction	5726-M69	4259			173	3190		129				.GH30-0707 System/34	11D
Costing	Payroll And Labor Costing	5727-M62	4485			257	3340						.GH30-9003.CASS	15B
Costing	Product Definition & Costing - Mfg	5726-M36	1470			72							.GH30-0220 System/34	11C
Costing	Production Control and Costing	5714-M41	6665			231	5000		178				.GH30-0709 System/38	11D
+Costing	Production Control and Costing	5714-M71	8450			425	7436						.GH30-9037 System/38	15E
Costing	Production Control and Costing	5726-M41	6405			261	4800		195				.GH30-0221 System/34	11X
Costing	Production Control and Costing	5727-M41	6710			383	5030						.GH30-9002.CASS	15B
Costing	Production Control and Costing	5727-M71	8085			407	7115						.GH30-9006.CASS	15E
Costing	Production Status and Costing Mfg	5726-M31	1575			77							.GH30-0220 System/34	11C
+Costing	SOLOMON III tm Job Costing	5669-094	1395										SV21-8041 General Ledger	05Z
-Counting	Inventory Cycle Counting	5796-BDH	1980										.G320-9127 D05/VSE	15X
+Countries	Countries, Capitols and More!	6276-559	25										PC,XT,AT,PCjr,3270PC	05R
County Sheriff	Service of Process	5798-DTJ	616										.G320-0364 5520	15X
Courses	Writing Private Tutor Courses for the PC	6024-078	14										6520-1107 PC,XT,AT,PCjr,PPC	05Z
+CP	Graphics CP 3.2, Upg from 2.0	1887-959	100										GCP 2.0	05M
+CP	Graphics CP 3.2, Single update from 3.1	1887-961	nc										GCP 3.1	N05M
+CP	Graphics CP 3.2, Addl update from 3.1	1887-962	55										GCP 3.1	05M
+CP	3270-PC CP 3.0, Workstation Upgrade Pkg.	59X9-968/01	200										GA23-0179 Versions 1 or 2	05M
CP/M-86	Operating System	6024-035	259										6520-3917 PC	05Z
CPCS	Check Proc Archive Retrieval & Suspense	5796-BTN	8800										.G320-9153 OS/VS	15H
CPCS	Check Processing Control System	5736-F11											.GH20-1008 OS/MFT/MVT/VS	21B
CPCS	CPCS / Return Item Feature	5734-F11/02			1375	8825	882						Z101.4533	23B
CPCS	CPCS Installed User Educational Guide	5796-001	2700										G320-5807 5734-F11	05H
CPCS	CPCS Online Adjustments - II	5798-CLD				818							12 GB21-1948 OS/VS CPCS	15H
CPCS	CPCS Online Adjustments - II Enhanced	5798-CLD/01				208							GB21-1948 9562	15E
CPCS	CPCS Sort Table Generator	5798-DNG	13200			600							.GB21-3104 MVS,VS1	15H
CPCS	CPCS User Editing	5798-DMG	2915										.GB21-3046 OS/VS	15X

Keywords - Alphabetic Sequence

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Codes Explained in Appendix B

Keyword	Program Title	Number	OTC	ILC	MLC	DSO	DSI	DSM	HLP	HML	Mo	MoreInfo	Environment	TPLS	
CPCS	CPCS 3890 Feature	5734-F11/01			636							GH20-1970	6081,6091	2TB	
CPCS	3890 Online Fine Sort - CPCS	5798-CRC	10890		990							12.GB21-2170	05/V5	15H	
CPCS/CHX	Check Processing Control - CHX Interface	5798-DKH	3190										.GB21-2997	MVS	15X
CPF	Control Program Facility 1.7.0	5714-S51	22000		869	19360		728					GC21-7729	System/38	15A
CPM	Job Analysis System	5726-XP1	5090		207	3820		154					.GH30-0511	System/34	15X
CPU	Virtual CPU - Series/1	5798-DMP	3740										.GB21-3064	VM/CMS	15X
CPU overlap I/O	Application Program Performance Extender	5798-DNL	2750										.GB21-3123	MVS	15H
CPU-bound	Application Program Performance Extender	5798-DNL	2750										.GB21-3123	MVS	15H
CPX	Capacity Planning Extended	5798-CYM	4410		189								.GB21-2391	05/V5,5798-CPR	11X
-CPX	CICS/IMS Data Collector Capacity Plan	5798-DML	1815										GB21-3057	05/V5,CICS/V5	15X
-Create	API/DI File Create Using PL/I	5796-PPK	1020		93							12.G320-6066	5796-PJZ,-PKA,-PKB	15H	
Create	GIS/V5 Update & Create Feature	5740-XX7/02			885		663	58	93				GH20-9035	6015	25K
Creation	Animation Creation (Feature 4082)	6024-082	45										G520-3917	PC,PCjr,XT	05Z
-Creation/Mainte	EDX File Creation/Maintenance Utilities	5798-RBL	550		50								12.GB30-1496	Series/1	15X
Credit	Advance Earned Income Credit Interfaces	5798-NYQ	575										.GB30-1395	System/34,System/32	15H
Credit	Commercial Bank System Revolving Credit	5746-F65			212								.GH20-2497	D05/V5E+CBAS Base	15X
Credit	Credit / Check Authorization	5798-DEW		7875	3015								12.GB21-2748	MVS,D05/V5E,CICS/V5	15X
+CRIBWARE	CRIBWARE tm	5793-AGT	2500										GB30-2027	Industrial PC	05Y
Critical path	Harvard tm Total Project Manager	6871-481	495										GB30-2037	PC,XT,AT	05Y
Critical path	Job Analysis System	5798-RRH	3025										.GB30-2309	System/36	15X
Critical path	Project Scheduler 5000	6871-485	285										GB30-2037	PC,XT	05Y
CRM	4700 FCS CRM - Upgrade from 5799-BQY	5668-935/01	550										4714		15K
CRM	4700 FCS CRM - Upgrade from 5799-BZE	5668-935/02	450										4715		15K
Cross	Cross App - Upgrade from 5727-M4X	5727-M7X/01	946					832							15E
Cross	Cross Applic Sys Suppt- Upgr from MAPICS	5714-M7X/01	2420		120	1230							4623,9623		15E
+Cross	Cross Application System Support	5714-M7X	2420		120	2130							.GH30-9037	System/38	15E
Cross	Cross Application System Support	5727-D6A	1815		106	1360							.GH30-0690	S/36,S/36 PC+DMAS	15B
Cross	Cross Application System Support	5727-M6X	1815		111	1360							.GH30-9002	System/36+MAPICS	15B
Cross	Cross Application System Support	5727-M6X	1650		94	1255							.GH30-9005	S/36,S/36 PC,+CMAS	15B
Cross	Cross Application System Support	5727-M7X	2310		115	2055							.GH30-9004	System/36,S/36 PC	15E
Cross	Cross Clues (R)	6092-632	30										.GB30-2037	PC	05Y
Cross	Cross Domain Network Data Transfer	5798-DAE	1320										.GB21-2498	Replaced by 5668-932	15H
Cross	Cross System Product / Applic Developmt	5660-284	4800		215	4080		150	25	40			.GH20-0940	DPPX/SP+5660-264	15K
Cross	Cross System Product / Applic Execution	5660-285	1365		60	1160		45	6	10			.GH20-0940	DPPX/SP	15K
Cross	Cross System Product/Application Dev V2	5668-824	10970		550	9870		26	42				.GH20-6750	CICS,MVS,SSX	25K
Cross	Cross System Product/Applic Execution V2	5668-825	8275		412	7450		19	30				H206-426	CICS,MVS,SSX,VM	25K
Cross	Cross System Product / Query	5668-948	9656		460	8688		345	15	24			.GH20-0940	5668-948+964+964+V5E,SSX	15K
Cross	Cross System Product / Applic Devt Ver 1	5668-944	5565		960	227	5005	720	172	34	54		.GH20-0940	CSP/Applic Execution	25K
Cross	Cross System Product / Applic Execution	5668-945	4200		720	172	3780	540	128	22	35		.GH20-0940	CICS/D05/V5,SSX,VM	25K
Cross	Cross System Product-Data Base 2 Interfa	5796-TBZ	6000										.GH20-9241	CSP+DB2	15H
Cross	Cross System Product/Application Exec.	6317-010	135										.G520-6004	PC,XT,AT,XT/370,3270	05G
Cross	Cross System Product/Application Generat	6317-011	1319										.G520-6004	EZ-VU Runtime	05G
Cross	DPPX COBOL Application Cross Reference	5798-DDJ	242		22								12.GB21-2672	DPPX	15H
Crossfire	Crossfire (Feature 4091)	6024-091	35										G520-3917	PCjr+D05 2.1	05Z
Crossreference	PCS ADS Crossreference	5796-ATP	4950										.G320-6342	5796-BCF	15X
Crosstalk	Crosstalk tm	6871-366	195										.GB30-2037	PC	05Y
Cryptographic	Cryptographic Facility	5714-CR1	5000			250							SC21-8026	System/38	15A
Cryptographic	Cryptographic Information Protection	5796-PPK		360	132								24.G320-6644	VM/CMS	15X
Cryptographic	Cryptographic Programmed Facility	5740-XY5	12200		436	9150		327	33	53			GC28-0942	MVS	15K
Cryptographic	Cryptographic Unit Support	5740-XY6	11000		390	8250		292	33	53			GC28-1015	05/V5,MVS/XA	15K

Keyword	Program Title	Number	OTC	ILC	MLC	DSO	DSI	DSM	MLP	MHL	Mo	MoreInfo	Environment	TPLS
Cryptography	X.25 NCP Packet Switching Interface 4.3	5668-981		770	269								3720/25+NCP 4.2	25K
+Crystals	Ratio Reasoning: Crystals and Speed	6024-473	75										128+color	DSG
Cryo-Mania	Cryo-Mania	6276-535	20										PC, XT,PCjr,AT	OSR
Cryo-Mania	Cryo-Mania Puzzle Pac	6276-577	15										Crypto-Mania	OSR
-CSMP	Continuous System Modeling Program III	5734-X59	2705		123								.GH19-7000 V51/V52-VM	11C
-CSMP	Continuous System Modeling - APL	5785-KAE	2285	104							24	.G320-6081	5748-AP1	15H
CSMP	CSMP III - Graphics Feature	5734-X59/01	9305	423									.GH19-7000 6065,6097	11C
CSMP III	Dynamic Simulation Language/VS	5798-PXJ	10000	454									.G320-0357 VM,MVS,XT/370	15H
+CSOS	CSOS Extensions 1.13 5.25" diskette	5669-075	155										System 9000	OSX
+CSOS	CSOS Extensions 1.13 8" diskette	5669-075/01	155										4509	OSX
+CSOS	CSOS 2 5.25" diskette	5669-072	495										System 9000	OSX
+CSOS	CSOS 2 8" diskette	5669-072/01	495										4512	OSX
CSOS	Operating System Extensions on 8" Disk	6089-579	155										GC22-9199 C59000	OSW
CSOS	Operating System Extensions on 5.25"Disk	6092-497	155										GC22-9199 C59000	OSW
CSP	Cross System Product/Application Exec.	6317-010	135										.G520-6004 PC,XT,AT,XT/370,3270	05G
CSP	Cross System Product/Application Generat	6317-011	1319										.G520-6004 EZ-VU Runtime	05G
CSP	CSP Development - CICS/OS/VS TSO	5668-944/01	4855			227	4370		172	34	54		.4519,4672,6519,6566	25K
CSP	CSP Development - VM/CMS	5668-944/02		960	160			720	120	32	51		.4538,2120,9539,2320	15K
CSP	CSP Execution - CICS/OS/VS TSO	5668-945/01	2490			117	2245		86	22	35		.4532,4676,6532,6568	25K
CSP	CSP Execution - VM/CMS	5668-945/02		700	120			540	90	22	35		.4537,2121,9537,2321	25K
CSP	Information Development / VSE 1.1	5666-323	1800			100	1620		90	17	27		GC33-6216 CSP+GDDM	15K
CSP/AD	Cross System Product / Applic Developm	5660-284	4800			215	4080		150	25	40		.GH20-0940 DPFX/SP+5660-264	15K
CSP/AD	Cross System Product/Application Dev V2	5668-824	10970			550	9870		26	42			.GH20-6750 CICS,MVS,SSX	25K
CSP/AD	Cross System Product / Applic Devt Ver 1	5668-944	5565	960	227	5005	720	172	34	54			.GH20-0940 CSP/Applic Execution	25K
CSP/AD	CSP/AD CICS/OS/VS and TSO Feature	5668-824/02	10360			467	9305		26	42			.4688,4689,6572	25K
CSP/AD	CSP/AD CICS/OS/VS & TSO Feat Upg from V1	5668-824/03	6560			4920							.5614	25K
CSP/AD	CSP/AD Upgrade from Version 1	5668-824/01	6425			4820							.4692	25K
CSP/AE	Cross System Product/Applic Execution V2	5668-825	8275		412	7450				19	30		.H206-426 .CICS,MVS,SSX,VM	25K
CSP/AE	Cross System Product / Applic Execution	5668-945	4200	720	172	3780	540	128	22	35			.GH20-0940 .CICS/DOS/VS,SSX,VM	25K
CSP/AE	CSP/AE CICS/OS/VS & TSO Feature	5668-825/02	7810			557	7025		19	30			.4686,4687,6574	25K
CSP/AE	CSP/AE CICS/OS/VS & TSO Feat Upg from V2	5668-825/03	6490			4865							.4691	25K
CSP/AE	CSP/AE Upgrade from Version 1 to 2	5668-825/01	4850			3640							.4690	25K
CSP/Q	Cross System Product / Query	5668-918	9656		460	8688		345	15	24			.GH24-5048.5668-944+945+VSE,SSX	15K
CSP/Query	CSP/Query CICS/OS/VS Feature	5668-918/01	7140			584	5352		408	15	24		.4680,4681,6570,6571	25K
CS3F data base	Information/Access Version 1	5665-950		3300	362		2475	270	28	45			GC34-2096 V2 of INFO/SYS & MGT	15K
+CSTU	CATIA (R) Base 2.2 4 CSTU	5668-760				685							MVS,VM+3250/5080	T1SE
+CSTU	CATIA (R) Base 2.2 Unlimited CSTU	5668-760/01		4125	1375			2895	965				4800,2230	T1SE
+CSTU	CATIA (R) Drafting 4 CSTU	5668-837				535							CATIA Base	T1SE
+CSTU	CATIA (R) Drafting Unltd CSTU	5668-837/01				3210	1070		1070	750			4727,2207	T1SE
+CSTU	CATIA (R) Kinematics 2.2 Unltd CSTU	5668-835				1410	670		993	331			CATIA Base	T1SE
+CSTU	CATIA (R) Numerical Ctl 2.2 4 CSTU	5668-833				288							CATIA Base	T1SE
+CSTU	CATIA (R) Numerical Ctl Unlimited CSTU	5668-833/01				288							4725,2203	T1SE
+CSTU	CATIA (R) Robotics 2.2 Unltd CSTU	5668-836		1725	575			1215	405				CATIA Base	15E
+CSTU	CATIA (R) 3D Design 2.2 4 CSTU	5668-761				350							CATIA Base	T1SE
+CSTU	CATIA (R) 3D Design Unlimited CSTU	5668-761/01		2100	700			1470	490				4802,2240	T1SE
+CSTU	RS/1 tm 8 CSTU	5664-316	23000										.G320-0840 VM+GDDM PGF	.T1SE
+CSTU	RS/1 tm 40 CSTU	5664-316/01	45000										.G320-0840 4731,4732	.T1SE
+CSTU	RS/1 tm Unlimited CSTU	5664-316/0314	40000										.G320-0840 4731,4732,4733,4734	.T1SE
+CSTU	RS/1 tm 100 CSTU	5664-316/02	84000										.G320-0840 4731,4732,4733	.T1SE
CT	Change Tracker	5790-DC4	4550		207								.GH19-6028 OS/VS	15C

Keywords - Alphabetic Sequence

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Codes Explained in Appendix B



Keyword	Program Title	Number	QTC	ILC	MLC	DSO	DSI	DSM	MLP	MML	Mo	MoreInfo	Environment	TPLS
-CTF	Application Support for 3624 CTF	5798-RDP	9680		880							12.G830-1626	System/34	15X
CTF	Application Support for 3624 CTF	5798-RRA	13200									.G830-2243	System/36	15X
-CUBS	College Business Sys Student Aid & Bill	5796-RRD	4400									.G830-2181	System/36	15X
-CUBS	College Business Sys Financial Acctg	5796-RQE	7150									.G830-2181	System/36	15X
-CUBS	College Business Sys Student Records	5796-RRF	7150									.G830-2181	System/36	15X
Current	FORTRAN Util Current licensees	5798-DFH/01	450									.GB21-2796	9587,8	15X
Auto Dealer	Custom Ups from 5796-ZHE	5796-ZPE/01	50									.GB30-6013	System/36	15H
Custom-Built	MVS Custom-Built Installation Process Of	5751-CS1	varies									GC23-0127	MVS	V 5
+Customer	Auto Dealer - Customer Follow-up	5796-ZPE	3000									.GB30-6013	System/36	15H
+Customer	Customer Information Control System/CMS	5668-795	15000			835	13500		750			GC33-0284	VM,VM/PC	25M
Customer	Customer Information System	5712-AAA	24860		2260							12.GE20-0441	OS/VS	05E
Customer	Customer Information System Design Svc	5712-AAA/01	4385		399							12.GE20-0441	9096	05
Customer	Customer Information File Banking	5726-F11	4000		210							.G360-0050	System/34	11X
Customer	Customer Information Control System	5734-XX7	9876		880							GH20-1028	OS	25C
Customer	Customer Information Control System	5736-XX6	2820		255							GH20-1028	DOS	25C
Customer	Customer Information Control System	5736-XX7	7056		588							GH20-1028	DOS	25C
Customer	Customer Information Control System 1.7	5740-XX1		5730	1910		42901430	256	280			GC33-0155	MVS,VA	25K
Customer	Customer Information Facility	5740-XYB	63880		2880							.GH20-2018	IMS/VS	25X
Customer	Customer Information Facility	5740-XYC	56780		2735							.GH20-2018	CICS/OS/VS	25X
Customer	Customer Information Facility	5746-XX5	38950		1500							.GH20-2018	CICS/DOS/VS	25X
Customer	Customer Information Control System	5746-XX3			686			617	149	238		GC33-0155	DOS/VSE	25K
Customer	Customer Order Servicing - Shipping Mgmt	5668-906	14070		428							.GH19-6369	CICS/VS+IMS or DL/1	15B
Customer	Customer Order Servicing Data Management	5785-DCN	9710		294							.GB21-2633	DOS/VSE,OS/VS	15E
Customer	Customer Order Servicing Order Management	5785-DPC	9710		294							.GB21-2633	DOS/VSE,OS/VS	15E
Customer	Customer Service Billing Distribution	5714-DB1	4985		173	3735		129				.GH50-0130	System/38	11X
Customer	Public Utility Customer Service	5798-MQC	3665		315							12.G830-1159	System/34	15H
Customization	4730 Customization Image Builder Rel 2	5668-870	6000		535	5400						GC31-0029	SSK,VSE,VS1,MVS,VA	11E
Customizer	Program Customizer / 3600 4700	5740-F11			2380							GH20-1587	OS/VS	11B
Customizer	3600 4700 Program Customizer	5746-F11			1315							GH20-1587	DOS/VSE	11B
Customizer	3650 Point-of-Sale Report Customizer	5748-D15	603		16							48.GC30-3054	SPPS II & PSS Host	15A
CVIEW	Cooperative Viewing Facility Version 2	5664-296	5280		330							.G520-6005	VM	25A
CVIEW	CVIEW Upgrade from Version 1 to 2	5664-296/01	1375										5298,5299	25A
Cycle	EDX Support - Programmable Cycle	5798-RHH	792		60							12.G830-1760	S/1,RPQ-D02288	15X
Cycle	Hydrologic Cycle - Earth Science Series	6024-121	55									G520-1107	PC,Xt,PCjr,PPC+D052+	05Z
-Cycle	Inventory Cycle Counting	5796-BDH	1980									.G320-9127	DOS/VSE	15X
Cycle	3890 Cycle Sort	5798-CQX	4925		448							12.GB21-2165	DOS/VS, 5798-BDC	15H
+Cycles	The Environment: Cycles & Interactions	6024-413	65									G520-1107	PC,Xt,AT,PCjr+color	05Z
+Cycles	The Environment: Cycles & Interactions	6024-443	295									G520-1107	PC,Xt,AT,PCjr+color	05Z
Cyrillic	Monotype Bodoni Cyrillic tm	5771-ACR	3000									G520-0004	CDPF	15E
Cyrillic	Monotype Times New Roman Cyrillic tm	5771-ACQ	3000									G520-0004	CDPF	15E
Cyrillic	Univers Cyrillic tm	5771-ACP	3000									G520-0004	CDPF	15E
Cyrillic	6670 Fonts Library	5799-BGK	25										MVS	05C
+Cytology	Cytology & Histology: Cells & Tissues	6024-407	65									G520-1107	PC,PCjr,XT,AT+color	05Z
+Cytology	Cytology & Histology: Cells & Tissues	6024-437	295									G520-1107	PC,PCjr,XT,AT+color	05Z
B/B/M	CADAM (R) B/B/M Detail Library Feature	3668-853/01	2672		226	74	1675	148	47				2146,4644,4624,2346	15E
+DACA	The FIX Device Driver for IBM DACA	5793-AQG/05	795									GB30-2027	793-AQG	05Y
-DACS	EDX Laboratory Automation	5798-RHH	3960		500							12.GB30-1688	Series/1	15X
+Daily	Daily Organizer	6276-557	20										PC,Xt,AT,PCjr,3270PC	05R
Danish	DisplayWrite/36 Danish Dictionary	5727-MP2/05	120				105						4763,6064	15A
Danish	DH/36 Danish Dictionary	5727-MP7/06	90									G580-0570	4787	05H

Keyword	Program Title	Number	OTC	ILC	MLC	DSO	DSI	DSH	MLP	MHL	Mo	MoreInfo	Environment	TPLS
-DASD	DASD Device Independence Open	5798-AMH	1080		49							.GB21-1002	DOS/VS	0IH
DASD	DASD DI-Open Enhancement	5798-ANH/01	150									.GB21-1002	9534	0IH
-DASD	DASD Seek Simulator	5798-CTD	1650									.GB21-2217	OS/VS	1IH
DASDR	Direct Access Storage Dump Restore	5740-UT1	2800		167							GH20-9116	OS/VS1,OS/VS2,OS/MFT	15C
DASF	DBOMP CICS / DASF Feature	5736-XX4/02	3305		120							GH20-4621	4522,4525	25C
Data base	dBASE III Plus tm	6187-184	695									.GB30-2037	PC,XT,3270-PC,AT,RT	05Y
Data base	Decision Support / VSE 1.1	5666-311	3075		182	2770		164	19	31		GC33-6212	SSX,VSE	25K
Data base	Distributed Office Support System Ver 3	5665-290		4570	1485		34251110	223	357			GC30-3085	CICS/VS+MVS,XA	25K
Data base	Distributed Office Support System Ver 3	5666-270		1710	570		1275	425	176	282		GC30-3085	CICS/VS+VSE	25K
Data base	Electric Desk tm	6187-242	345									.GB30-2037	PC,XT,3270-PC,AT	05Y
+Data base	Information Management System Ver 2.1	5665-332			3900			2925	8251320			GC26-4180	MVS or XA	25K
Data base	Professional Office System	5664-176	22000	5000	895	19790	3745	710				.GH20-5601	VM	25B
Data base	Storage & Information Retrieval System	5740-XR1	28160		1280							.GH12-5114	OS/VS,CICS/VS,IMS/VS	25B
Data base	Storage & Information Retrieval System	5746-XR4	22990		1045							.GH20-1832	CICS/DOS/VS	25B
Data base	SQL / Data System - Relational Structure	5748-XXJ			464			347	144	230		GH24-5012	DOS/VSE,SSX/VSE,VM	25K
-Data Entry	EDX File Creation/Maintenance Utilities	5798-RBL	550		50							12.0830-1496	Series/1	15X
Data entry	Touch-Tone - Audio Support				201							12.0830-1350	Series/1	15H
Data manager	Framework II tm	5798-HXX										.GB30-2037	PC,XT,3270-PC,AT,RT	05Y
Data-set	Fast Copy Data-set Program	6187-185	695									GC33-6081	DOS/VSE	15K
-Data-set	TSO Data-set Print	5798-CPF	5040									.GB21-2069	Replaced by 5785-BAC	15H
Data-set	TSO Data-set Print VTAM, XA Extensions	5798-CPF/01	957		76							12.0821-2069	4607,4598	15H
Database	AHA Medical Device Database	7798-MDD	nc										Information Network	NOSC
Database	IBM Database 2 Performance ReportingTool	5798-DPY	5500		250							.G320-9202	DB2	15H
+DATABASE	IBM DATABASE 2 Performance Monitor	5665-354	29000		975							.SH20-6857	DB2	15M
DATABASE	IBM DATABASE 2 Release 2	5740-XYR		16050	2675		120562006	374	598			GC26-4073	MVS,XA+DFP+ISPF	25K
+Database	SOLOMON III tm Database Reporter	5669-099	995									SV21-8041	General Ledger	05Z
Dataset	CICS/VS Online Dataset Recovery Facility	5798-DHL	737									.GB21-2911	CICS/DOS(non-DL/I)	15X
Data	Data Fonts (Source or Object)	5771-ADA	160									G544-3088	PSF+3800/20/3812	21E
Dates	Attorney Practice - Statutory Dates	5793-ABF	3850									.GB30-2160	5793-ABL+ABZ	05X
Dates	Client Files, Conflict & Dates System	6187-249	450									.GB30-2037	XT,AT	05Y
Dates	Client Files, Conflicts and Dates	6187-267	100										PC	05Y
Dates	Info Syst for Attny - Stat Dates (Docket)	5793-ADX	750									.GB30-6000	Client/Matter Record	05H
Dates	Info Syst for Attny - Stat Dates (Docket)	5793-AEJ	2275									.GB30-6001	Client/Matter Record	05H
Dates	Statutory Dates (Docket) Series 800	5793-ACP	1650									.GB30-2415	S/36+5793ABZ+ACR	05H
Day	Rid Day System	5710-RTZ	1650									.GB30-2450	System/36	15H
DB	DB Prototype II	5796-PJK	4870		238							.G320-5754	IMS/VS VIR2	15E
DB/DC	Data Dictionary - DB/DC	5740-XYF			1110			832	115	184		GH20-9104	IMS/VS,CICS/OS/VS	25K
DB/DC	Data Dictionary - DB/DC	5746-XXC			491			367	91	146		GH20-9193	DOS/VS,DL/I,CICS/VS	25K
DB/Editor/Write	DB/Editor/Writer	6276-554	50										PC,XT,3r,AT,3270-PC	05R
+DBASE	dBASE tm / Answer	6205-238	550									GB20-2037	Answer/DB 5798-DMG	05H
DBASE	dBASE II (R)	6086-009	495									.GB30-2037	PC,3270-PC	05Y
DBASE	dBASE II - Multiuser	6187-188	995									GB30-2037	PC	05Y
DBASE	dBASE III Plus tm	6187-184	695									.GB30-2037	PC,XT,3270-PC,AT,RT	05Y
DBDA	Data Base Design Aid Version 2	5740-XY8	8620		431							.GH20-1626	OS/VS	11C
-DBDA	Data Base Design Aid Version 2	5746-XXQ	6460		323							.GH20-1626	DOS/VS	11C
DBEDIT	Data Base Edit	5798-DLL	6050									.G320-9195	SQL/DS+VM	15H
DBEDIT	Data Base Edit	5798-DLQ	7700		350							.G320-9195	MVS+DB2	15H
DBMS	dBASE III Plus tm	6187-184	695									.GB30-2037	PC,XT,3270-PC,AT,RT	05Y
DBOMP	Data Base Organization and Maintenance	5736-XX4	3620		132							.GH20-0771	DOS,DOS/VS	25C
DBOMP	DBOMP CICS / DASF Feature	5736-XX4/02	3305		120							.GH20-4621	4522,4525	25C

Keywords - Alphabetic Sequence

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Codes Explained in Appendix B

Keyword	Program Title	Number	OTC	ILC	MLC	DSO	DSI	DSH	HLP	MHL	Mo	MoreInfo	Environment	TPLS
DBOMP	DBOMP CICS Feature	5736-XX4/01	2675		97								.GH20-4446 4521,4524	25C
DBRC	IMS/V5 Data Base Recovery Control Feat	5740-XX2/04		558				418	38	61			.GH35-0010 6425,6560	15K
DBT	IMS/V5 System Utilities/Data Base Tools	5668-856	20000										.GH20-6579 IMS/V5	25E
-DBT	S/3 DBT to S/38 Conversion Aid	5798-NYN	271										.GB30-1589 System/3	05H
DB2	APL2 Release 2	5668-899	14000	4170	695	12600	3126	521	37	59			.GH20-9214 VM, VM/XA	15K
DB2	Batch Terminal Simulator	5668-948	9662	1030	394	7245	773	295	28	46			.GH20-5522 IMS/V5 & TSO	15K
DB2	Data Dictionary DB2 Interface	5798-DRP	4000										.G320-9241 DB2	15S
DB2	IBM DATABASE 2 Release 2	5740-XYR		16050	2675		120362006	374	598				.GC26-4073 MVS.XA+DFP+ISPF	25K
+DB2PM	IBM DATABASE 2 Performance Monitor	5665-354	29000		975								.SH20-6857 DB2	15M
DB2PRT	IBM Database 2 Performance Reporting Tool	5798-DPY	5500		250								.G320-9202 DB2	15H
-DC	IMS DC Programming Course II	5798-DFQ	1540										.GB21-2813 IIS, IIPS	1EX
DCF	Braille Text	5798-DNC	2640										.GB21-3093 VM,MVS	15H
DCF	Document Composition Facility DCF	5748-XX9		972	324								VM,VSE,MVS	15E
DCF	Document Composition Training	5796-PNE	1320										.G320-6331 IIS, IIPS	1EH
DCF	DCF Foreground - CMS TSO ATMS III	5748-XX9/01		180	60								.GH20-9158 6043,2107	15E
DCF	Graphic Data Display Manager	5748-XXH		767	159		575	120	36	58			.GC33-0100 VM,CICS,IMS,MVS	15K
-DCF	Letterwriter for Document Composition	5798-DMT	550										.GB21-3072 5748-XX9	15X
-DCF	MANYFONT Text Processing Type Faces	5796-PPE	1450		132								.G320-6634 DCF	15H
DCIS ADS	Distribution Construction Information	5712-ABD	60500		5500								12.GE20-0613 DOS/OS/IMS/CICS/V5	05C
-DCL Program	MICR Program Generator	5798-RBE	759		69								12.GB30-1476 System/34	15H
DCMS	DPPX Data Capture and Management System	5740-XR6	2440		139	1830		103	31	49			.GH20-2421 DPPX	15X
DCSS	5230 Data Collection Support	5726-MSA	1575		77								.GH30-0220 System/34	11C
DDA	Demand Deposit Accounting Banking	5726-F12	3600		188								.G360-0050 System/34	11X
DDFF	DPPX Distb Document Formatting Facility	5785-RAA	1980										.G320-0355 8100	15X
DDFF	SSP Distributed Disk File Facility	5727-SS1/07	3000		171	2640							.GC21-9021 4514,4515,4606	15A
DE/RPG	Link DE/RPG Compiler PRPQ	5799-BFG	nc										System/34	N05X
+Dealer	Auto Dealer - Accounting	5796-ZNX	13600										.GB30-6013 System/36	15H
+Dealer	Auto Dealer - Contract Preparation	5796-ZPD	3550										.GB30-6013 System/36	15H
+Dealer	Auto Dealer - Customer Follow-up	5796-ZPE	3000										.GB30-6013 System/36	15H
+Dealer	Auto Dealer - Leasing	5796-ZPB	5300										.GB30-6013 System/36	15H
+Dealer	Auto Dealer - Management Reports	5796-ZPC	4100										.GB30-6013 System/36	15H
+Dealer	Auto Dealer - Parts Invoicing	5796-ZNY	5500										.GB30-6013 System/36	15H
+Dealer	Auto Dealer - Parts Inventory	5796-ZNZ	11800										.GB30-6013 System/36	15H
+Dealer	Auto Dealer - Service Merchandising	5796-ZPA	8600										.GB30-6013 System/36	15H
+Dealer	Auto Dealer - Traffic Control	5796-ZPF	1200										.GB30-6013 System/36	15H
+Dealer	Auto Dealer - Vehicle Control	5796-ZPG	8600										.GB30-6013 System/36	15H
+Dealer	Auto Dealer Acctg, Upgr from 5796-ZGX	5796-ZNX/01	1875										.GB30-6013 System/36	15H
+Dealer	Auto Dealer, Cont Prep, Upgr from 5796ZHD	5796-ZPD/01	50										.GB30-6013 System/36	15H
+Dealer	Auto Dealer, Cust, Upgr from 5796-ZHE	5796-ZPE/01	50										.GB30-6013 System/36	15H
+Dealer	Auto Dealer, Leasing, Upgr from 5796-ZHB	5796-ZPB/01	50										.GB30-6013 System/36	15H
+Dealer	Auto Dealer, Mgt Rpt, Upgr from 5796-ZHC	5796-ZPC/01	50										.GB30-6013 System/36	15H
+Dealer	Auto Dealer, Parts Inv,Upgr from 5796ZGY	5796-ZNY/01	1100										.GB30-6013 System/36	15H
+Dealer	Auto Dealer, Parts Inv. Upgr from 5796ZGZ	5796-ZNZ/01	1690										.GB30-6013 System/36	15H
+Dealer	Auto Dealer, Service, Upgr from 5796-ZHA	5796-ZPA/01	50										.GB30-6013 System/36	15H
+Dealer	Auto Dealer, Traffic, Upgr from 5796-ZHF	5796-ZPF/01	50										.GB30-6013 System/36	15H
+Dealer	Auto Dealer, Veh Ctl, Upgr from 5796-ZHG	5796-ZPG/01	50										.GB30-6013 System/36	15H
-Dealer	Dealer Parts Inventory Management	5798-RBG	6930		315								24.GB30-1498 System/34	15H
Dealer	Rags to Riches Dealer Selling Kit	6187-306	15										PC	05Y
Dealers	Accounts Receivable Lumber Dealers	5726-D4F	1650		86								.GH30-0166 System/34	11X
Dealers	Billing Lumber Dealers	5726-D4E	2400		125								.GH30-0166 System/34	11X

Keyword	Program Title	Number	OTC	ILC	MLC	DSO	DSI	DSH	HLP	MHL	Mo	MoreInfo	Environment	TPLS	
Dealers	Inventory Control Lumber Dealers	5726-D4G	2150		111							.GH30-0166	System/34	11X	
Dealers	Sales Analysis Lumber Dealers	5726-D4H			111							.GH30-0166	System/34	11X	
Dealership	Auto Dealership Mgmt. - Accounting	5796-ZEJ	11000									.GB30-2107	System/34	15X	
Debug	CICS/VS Online Test Debug II	5796-AHJ	2625		112							.G320-5710	DOS/VS, OS/VS	15E	
Debug	COBOL Interactive Debug	5734-C84	1008		375							GC28-6454	TDS/CMS	15A	
Debug	COBOL Interactive Debug XT/370	5734-C84/01	1008		22								3003,3004	05C	
-Debug	COBOL Interactive Debug Training II	5798-DFZ	1090									.GB21-2825	IIS, IIPS	1EX	
Debug	DOS Enhanced Debug	6276-594	25										PC,XT,jr,AT,PPC	05R	
Debug	FORTRAN Interactive Debug	5734-F05	3600		256							GC26-3983	5734-F01,5748-F03	15B	
Debug	FORTRAN VS - Interactive Debug 2.0 SP6	5668-903		1920	320		1397	240	26	42		GC26-4114	MVS,VM55748-F03+LM3	15K	
Debug	FORTRAN VS Interactive Debug XT/370	5668-903/01	1152		25								3006,3010	05C	
Debug	Professional Debug Facility	6024-143	165									.G520-1107	PC,XT,PPC	05Z	
Debug	Programmer Productivity - Debug	5798-RLA	495									.GB30-1903	5280 Data System	15X	
+Debug	VS FORTRAN Compiler Library& Debug 2.2.1	5668-806			750			563				SX26-3751	VM,MVS,XA+DFP	15E	
-Debug	3650 Application Development Debug	5798-DGY	847		77							12	GB21-2883 OS/VS, DOS/VSE	15H	
Debug	3694 Debug Test Aid for User Edit Progs	5798-DNJ	1100										.GB21-3119	VSE, OS/VS	15X
-Debug-II	Development Management System Debug-II	5798-DNB	1320										.GB21-3091	CICS/VS	15X
-Debugging	DMS/CICS/VS Online Debugging Aid	5798-DEC	660										.GB21-2727	OS/VS, DOS/VSE	15H
Debugging	DPPX Extended Debugging Facility	5785-ECA		350	115								12	GB21-2935 DPPX	15X
+Debugging	Symbolic Debugging Aid Release 1	5732-017	1660										SC34-0716	System/88	15M
DEC tm	SmarTerm tm 100 VT-52, VT-100, VT101, VT102	6294-110	165										GC22-9269	CSDS+5.25" diskette	05N
DEC.VT100	VTERM (DEC.VT100 tm, DEC.VT52 tm)	6871-491	125										.GB30-2037	PC,XT	05Y
DEC.VT100 tm	SmarTerm 100 tm (DEC.VT52,VT100,1,2,EDT)	6871-489	149										.GB30-2037	PC,XT,3270-PC	05Y
DEC.VT101 tm	SmarTerm 100 tm (DEC.VT52,VT100,1,2,EDT)	6871-489	149										.GB30-2037	PC,XT,3270-PC	05Y
DEC.VT102 tm	SmarTerm 100 tm (DEC.VT52,VT100,1,2,EDT)	6871-489	149										.GB30-2037	PC,XT,3270-PC	05Y
DEC.VT52	VTERM (DEC.VT100 tm, DEC.VT52 tm)	6871-491	125										.GB30-2037	PC,XT	05Y
DEC.VT52 tm	SmarTerm 100 tm (DEC.VT52,VT100,1,2,EDT)	6871-489	149										.GB30-2037	PC,XT,3270-PC	05Y
Decimals	Metric I - Fundamentals of Decimals	6871-487	49										.GB30-2037	PC,XT,PCjr	05Y
Decision	Decision Support / VSE 1.1	5666-311	3075			182	2770		164	19	31		GC33-6212	SSX,VSE	25K
Decision	Personal Decision Series - Attachment/VM	5664-290	17600		800								.GH30-9028	VM+ISPF+6316971	15E
Decision	Personal Decision Series - Attachmt/MVS	5665-356	22000		1000								.GH30-9028	VTAM+NCP+ISPF+PC,XT	15E
Decision	Personal Decision Series - Attachment/36	5727-BRK	1155										.GH30-0757	S/36+6316972	15E
-Decision	Personal Decision Series - Attachmt/370	6316-971	219										.GH30-0760	Upgrade to 6467046	05G
Decision	Personal Decision Series - Attachment/36	6316-972	165										.GH30-0757	PC,PPC,XT+Data Editn.	05G
+Decision	Personal Decision Series, Upg to Plans+	6317-004	170										Plans	05Z	
+Decision	Personal Decision Series - Graphs Editio	6403-821	225										.GH30-9012	3.5" drive	05G
Decision	Personal Decision Series - Data Edition	6410-936	275										.GH30-9012	All ex PCjr+DOS2 up	05G
Decision	Personal Decision Series - Reports+ Edtn	6410-937	165										.	Data Edition	05G
Decision	Personal Decision Series - Graphs Editn	6410-938	225										.	Data Edition+color	05G
Decision	Personal Decision Series - Plans Edition	6410-939	165										.	Data Edition	05G
Decision	Personal Decision Series - Words Edition	6410-940	165										.	Data Edition	05G
Decision	Personal Decision Series - Adviser	6410-941	65										.	Data Edition	05G
Decision	Personal Decision Series - Mailing Label	6410-942	75										.	Data Edition	05X
Decision	Personal Decision Series - Asset Catalog	6410-943	75										.	Data Edition	05X
Decision	Personal Decision Series - Prospect Trac	6410-944	75										.	Data Edition	05X
Decision	Personal Decision Series - Client Time	6410-945	75										.	Data Edition	05X
Decision	Personal Decision Series - Appoint Clndr	6410-946	75										.	Data Edition	05X
Decision	Personal Decision Series - Data Training	6410-947	79										.	Data Edition	05G
+Decision	Personal Decision Series - Reports+ Trng	6410-948	95										.	Reports+	05G
Decision	Personal Decision Series - Plans+ Edtn	6410-972	335										.	Data Edition	05G

Keyword	Program Title	Number	OTC	ILC	MLC	DSO	DSI	DSH	MLP	MML	Mo	MoreInfo	Environment	TPLS	
+Decision	Personal Decision Series - Data Edition	6466-983	275									.GH30-9012	3.5" drive	05G	
+Decision	Personal Decision Series - Reports+ Edit	6466-984	165									.GH30-9012	3.5" drive	05G	
+Decision	Personal Decision Series - Words Edition	6466-985	165									.GH30-9012	3.5" drive	05G	
+Decision	Personal Decision Series - Plans Edition	6466-986	165									.GH30-9012	3.5" drive	05G	
+Decision	Personal Decision Series - Plans+ Editio	6466-987	335									.GH30-9012	3.5" drive	05G	
Decision	Planning Control & Decision Evaluation	5740-XX8	21140	961								.GH19-1103	CICS/IMS VM T50	25B	
Decision	Planning Control & Decision Evaluation	5740-XX9	17310	787								.GH19-1103	DS/VS	21B	
Decision	Planning Control & Decision Evaluation	5746-XXA	17310	787								.GH19-1103	DOS/VS	21B	
Decision	Planning Control & Decision Evaluation	5746-XX9	21140	961								.GH19-1103	CICS/DOS/VS	25B	
Decision	supprtINTELLECT tm	5796-PMA	42000	2245								.G320-9161	VSE+5748-XXJ+PL/I	25X	
Decision	supprtINTELLECT tm	5796-PHC	57000	3050								.G320-9161	MVS+PL/I	25H	
Decision	suppt OFFICE/38 - WORKSHEET/38 tm	5710-RRL	2790									.GB30-2383	System/38	15I	
Decisions	Tax Decisions tm	6871-444	25										PC	05Y	
-Decision	SupportAPL Econometric Planning Language	5796-PHE	2705	246								12.G320-5535	APLSV	11H	
Decision	SupportINTELLECT tm	5796-PHE	57000	3050								.G320-9161	VM+PL/I	25H	
Decision	SupportStorage & Information Retrieval System	5664-189		1650	575		1235	375				.GH12-5147	VM+SPF.XT/370	15M	
Decision	SupportStorage & Information Retrieval System	5740-XR1	28160	1280								.GH12-5114	DS/VS,CICS/VS,IMS/VS	25B	
Decision	SupportStorage & Information Retrieval System	5746-XR4	22990	1045								.GH20-1832	CICS/DOS/VS	25B	
Decision	SupportSQL / Data System - Relational Structure	5748-XXJ	464					347	144	230		.GH24-5012	DOS/VSE,SSX/VSE,VM	25K	
Decrypt	ACE/VIAM - Encrypt / Decrypt Feature	5735-RCZ/02		770	269		577	202	8	13		.GC38-0285	6010,2109,6512,2309	15K	
DEDB	IMS/DBT DEDB Pointer Checker	5668-856/05	2845										.4742	.25E	
DEDB	IMS/DBT DEDB Tuning Aid	5668-856/06	836										.4743	.25E	
DEDB	IMS/DBT DEDB Unload/Reload	5668-856/07	2445										.4744	.25E	
Defenses	Pathology: Diseases and Defenses	6024-343	65									0520-1107	PC,PCjr,XT,AT,PPC	05Z	
Defenses	Pathology: Diseases and Defenses	6024-390	295									0520-1107	PC,PCjr,XT,AT,PPC	05Z	
-Deficiency	Medical Record Deficiency & Location Trk	5796-PXE	275									.G320-0352	Displaywriter	15X	
Defining	Defining Goals and Objectives	6871-529	113										PC	05Y	
Definition	DPPX Interactive Map Definition Feature	5660-264/01	5300		212	4500				20	32	.GC33-0122	6000,6009,6010	15K	
Definition	DPPX Interactive Map Definition	5660-282	5300		212	4500				180	20	32	.GC23-0600	DPPX/SP	15K
Definition	DPPX Interactive Map Definition Feature	5760-XR1/01	3600		143	3060				121	17	27	.GC33-0890	6000,6015,6014,6001	15K
+Definition	EDX Network Definition Utility 1.0	5719-XT5	1950										Series/1	15M	
Definition	GDDM Interactive Map Definition	5748-XXH/02		767	214		575	161	22	35		.GC33-0100	6084,2101,6503,2501	15K	
Definition	Product Definition & Costing - Mfg	5726-M36	1470		72							.GH30-0220	System/34	11C	
Definition	Screen Definition Facility	5664-178		1685	294		1265	200	44	70		.GH19-6087	VM	15K	
Definition	Screen Definition Facility CICS/VS	5666-288		1305	249		979	187	47	75		.GH19-6096	SSX/VSE	15K	
Definition	Screen Definition Facility	5740-XYF	7675		349	5760		262	50	80		.GH19-6087	DS/VS,MVS/XA or CICS	15K	
Definition	Screen Definition Facility	5746-XXT	5345		243	3980		165	44	70		.GH19-6087	VSE or CICS/DOS/VS	15K	
Definition	VSAM File Definition Aid	5798-DPG	2200									.G320-9170	MVS,VSE	15H	
Definitions	CMAS File / Record Definitions	5798-RPZ	330									.GB30-2138	Retrieval/36	15X	
-Definitions	CMAS File / Record Definitions	5798-RQP	330									.GB30-2136	Retrieval/34	15X	
-Definitions	DFAS II File / Record Definitions	5798-RQN	330									.GB30-2140	Retrieval/36	15X	
Definitions	DMAS II File / Record Definitions	5798-RPY	330									.GB30-2134	Retrieval/36	15X	
-Definitions	DMAS II File / Record Definitions	5798-RQQ	330									.GB30-2132	Retrieval/34	15X	
Definitions	MAPICS File / Record Definitions	5798-RQB	330									.GB30-2146	Retrieval/36	15X	
-Definitions	MAPICS File / Record Definitions	5798-RQL	330									.GB30-2144	Retrieval/34	15X	
Definitions	MAPICS II File / Record Definitions	5798-RMD	400									.GB30-2146	Retrieval/36	15H	
-Degree	3800 90 Degree Print Program	5796-AMX	3145		286							12.G320-6067	DOS/VSE	15H	
Degree	3800 90 Degree Print Program	5796-ARE	3430		260							.G320-5825	DS/VS	15H	
Degree	3800 90 Degree Print Extensions	5796-BAC	858									.G320-6418	5796-ARE,-AMX	15H	
Degree	3800 90 Degree Rotate Rescaled Char Set	5798-DNK	440									.GB21-3121	MVS+3800-III	15X	

Keyword	Program Title	Number	OTC	ILC	MLC	DSO	DSI	DSM	HLP	MHL	Mo	MoreInfo	Environment	TPLS
Delivery	Direct Store Vendor Delivery Control	5796-BBE			655							24.G320-6423	D05/VS CICS DL/I	15H
-Delivery	EDX Direct Store Delivery System	5798-RLW	1200									.GB50-1998	Series/1	15X
Delta	LDMS Normal Value / Delta Checking	5798-DCH	4715		429							12.GB21-2602	5796-APB,5796-AMC	15H
Demand	Commercial Bank Demand Deposit Accounting	5746-F61			418							.GH20-2497	D05/VSE+CBAS Base	15X
Demand	Demand Deposit Accounting Banking	5726-F12	3600		188							.G360-0050	System/34	11X
-Demographic	US Geographic Demographic System	5798-DUQ	2365									.GB21-3020	VM/CMS,MVS/TSO,GDDM	15X
Demonstrator	-MONEY=TRACK= (Teaching & Demonstrator)	5792-ZFB	nc									.GB30-2313	IBM Internal	N05X
Density	Metric V - Area Density Measurements	6871-520	49									.GB30-2037	PC,XT,PCjr	05Y
Department	EDX Department Office Control System	5798-DQG	1980									.G320-0367	Series/1	15H
Departmental	A Departmental Reporting System II	5796-PLN	3490		196							.G320-6097	VSAPL	11X
Departmental	A Departmental Reporting System	6428-092	355									.GH20-0023	PC	05X
-Departmental	DPCX Accounting System / Departmental	5798-DDL	1330		121							12.GB21-2688	DMS/3790,DPCX	15H
Deposit	Commercial Bank Demand Deposit Accounting	5746-F61			418							.GH20-2497	D05/VSE+CBAS Base	15X
Deposit	Commercial Bank Time Deposit Certificate	5746-F63			292							.GH20-2497	D05/VSE+CBAS Base	15X
Deposit	Demand Deposit Accounting Banking	5726-F12	3600		188							.G360-0050	System/34	11X
Deposit	Deposit Processing	5740-F13			2245									05C
-Depreciation	Fixed Asset Accounting & Control II	5798-RJH	2310									.GB30-1787	System/34	15X
DES	SSP Data Encryption Std for Banking	5727-S51/06	200			175						GC21-9021	4312,4605	15A
DES X3.92-1981	Data Encoder	6024-149	109									.G320-1107	PC,XT,PCjr,PPC,AT	05Z
Design	Circuit Board Design - Design Verify	5796-PRL	23400	2085	695	16380	1455	485				.G320-9175	5796-PRP	T15E
Design	Circuit Board Design - Design Verify	5796-PRL	23400	2085	695	16380	1455	485				.G320-9175	5796-PRP	T15E
*Design	Circuit Board Design - Circuit Pack 4.1	5796-PRP	48600	8355	2785							.G320-9175	VM+5080/3250/3277GA	T15E
+Design	Computer-Integrated Electrical Design	5668-878	75000		2500	52500		1750				.VM+GDDM/graPHIGS		15E
+Design	Computer-Integrated Electrical Design	5669-191	6000									AT		05G
+Design	Computer-Integrated Electrical Design	5669-192	8000									RT AIX		05H
Design	Customer Information System Design Svc	5712-AAA/01	4385	399								12.GE20-0441	9096	05
*Design	CADAM (R) Interactive Design Version 2	5668-840	70000		1710							.G320-6063	VM,OS/VS+3250/5080	T15E
Design	CATIA (R) Basic 3D Design - Standalone	5668-828			1035							.G320-6650	Replaced by 5668-761	T15E
+Design	CATIA (R) Building Design	5668-741			400								CATIA Base+Draft 2.2	15E
+Design	CATIA (R) 3D Design 2.2	4 CSTU 5668-761			350								CATIA Base	T15E
+Design	CATIA (R) 3D Design Unlimited CSTU	5668-761/01		2100	700			1470	490				4802,2240	T15E
+Design	CATIA (R) 3D Design	5668-830		1725	575			1215	405				Replaced by 5668-761	15E
Design	Data Base Design Aid Version 2	5740-XY8	8620		431							.GH20-1626	OS/VS	11C
-Design	Data Base Design Aid Version 2	5746-XXQ	6440		323							.GH20-1626	D05/VS	11C
Design	Format Design Aid	5798-RCR	660									.GB30-1548	5280 Data System	13H
-Design	Interactive Circuit Design	5796-PLR	20850		948							24.G320-6164	VSAPL, APLSV	15H
Design	Network Design and Analysis	5664-202	15000		750								VM+APL2 orVSAPL+GDDM	25E
Design	SQL/DS Relational Design Tool	5798-DQL	4400									.G320-0654	VSE,VM	15H
-Design	3800 Character/Graphic / Logo Design Aid	5798-DND	660									.GB21-3095	OS/VS+3800+5740-CB1	15X
-Design	3800 Interactive Character Design	5798-CTJ	1920		181							12.GB21-2191	OS/VS, TSD	11H
Design/Build/Manage	CADAM (R) Design/Build/Manage	5668-853	20000	1765	535	13400	1185	395					5796-ATA,ATB,PTH	15E
Desk	Electric Desk tm	6187-242	345									.GB30-2037	PC,XT,3270-PC,AT	05Y
+Desk	Electric Desk tm Academic Edition	6205-272	64									.GB30-2037	PC,XT,AT, Jr	05Y
+Desk	Electric Desk tm Academic Edition	6205-273	64									.GB30-2037	PCC 3.5" drive	05Y
+Desk	Electric Desk tm Academic Edition	6404-014	13									.GB30-2037	User's Guide	05Y
+Desk	Electric Desk tm Academic Edition	6476-223	86									.GB30-2037	PCjr cartridge	05Y
-Desk	Financial Desk Calculator	5796-ZEL	352									.GB30-2093	System/38	15X
Desk	Financial Desk Calculator	5796-ZGM	319									.GB30-2281	System/36	15X
Desk	The Scientific Desk tm	6187-278	420									.GB30-2037	PC,XT,AT,RT	05Y
+Desktop	GEM tm Desktop	6205-285	50									.GB30-2037	PC,XT,AT,KB/mouse	05Y

Keywords - Alphabetic Sequence

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Codes Explained in Appendix B

Keyword	Program Title	Number	OTC	ILC	MLC	DSO	DSI	DSM	HLP	MHL	Mo	MoreInfo	Environment	TPLS	
Detail	CADAM (R) D/B/M Detail Library Feature	5668-853/01	2675	224	74	1675	148	47					2146,4644,4624,2346,	15E	
Detail	Sales Analysis	5798-RPG	632									.GB30-2225	System/36	15X	
Determination	DPFX Problem Determination Aid	5660-272	880		33	748		27	11	17		GC27-0648	DPFX/NPDA	15K	
Determination	MVS Operator Problem Determination	5798-DEY	836									.GB21-2760	IIS,IIPS	1EH	
Determination	Network Problem Determination Applicatn	5664-190		1350	225		1010	169	20	32		GC23-0108	VM	25K	
Determination	Network Problem Determination Applic 3.2	5665-321		2040	340		1530	255	30	48		GC23-0108	NCCF Version 2+XA	25K	
+Determination	Network Problem Determination Applic V3	5666-295		825	132		618	99	16	26		GC23-0108	NCCF Version 2+VSE	25K	
Determination	Network Problem Determination Applic V3	5668-920		1650	264		1237	198	22	35		GC23-0108	NCCF Version 2+MVS	25K	
Determination	Network Problem Determination Appl Ver 2	5668-983		1210	113		907	85	27	43		GC34-2061	5735-XX6	15K	
Dev	Cross System Product/Application Dev V2	5668-824	10970			550	9870				26	42	.GH20-6750	CICS,MVS,SSX	25K
Dev Supt Fac	MVOperating System / Multiple Virtual Stor	5752-VS2	nc										GC28-1012	S/370,4300,303x,308x	N05J
Develop	Business Report Applic Develop Syst	5727-BR1	2225										.GH30-2576	System/36	15B
Development	Application Development Facility II V1	5668-937		3950	1315		2960	987	214	342			.GH20-5597	Superceded by V2	15K
Development	Application Development Facility	5796-PHX	21290		831									Replaced by 5668-937	15X
-Development	Application Development Facility Course	5798-DDN	1650		125						12		.GB21-2712	5668-012+5746-XX6	15H
Development	Business Report Application Development	5715-RG2	1365										.G280-0237	Sys/23 Datamaster	11X
Development	Business Report Application Development	5726-BR1	1650										.GB30-2554	System/34	11X
Development	CICS Application Development Archit V2	5796-PHJ	12100										.G320-9168	CICS	15H
Development	CSP Development - CICS/OS/VS TSO	5668-944/01	4855											4519,4672,6519,6566	25K
Development	CSP Development - VM/CMS	5668-944/02		960	160		720	120	32	51				4538,2120,9339,2320	15K
Development	Development for Colleges & Universities	5796-PXB	4820										.G320-9194	System/38	15H
Development	Development Management System / CICS	5740-XC5	8380		533	6285			54	88			.GH20-0125	CICS/VS/DS	15K
Development	Development Management System / CICS	5746-XC4	4730		330	3545		164	54	88			.GH20-2195	CICS/VS/DOS	15K
-Development	Development Management System Debug-II	5798-DNB	1320										.GB21-3091	CICS/VS	15X
+Development	Development Support Utility	5727-DS1	1000		70	880								System/36	15A
+Development	Development Support Utility	5727-DS6	1000		70	880								System/36 5360/62	05M
Development	DPXC Development Management System	5748-XC4	25730		939	19290		703	94	151			.GH20-2423	TSO,CICS,CMS	15K
Development	DPXX Development Management System Defn	5760-XC2	3175		185	3025		138	67	108			.GH20-2154	DPXX	15K
Development	DPFX Development System	5799-AZL	676										GC27-0505	OS/VS, DPXX	15B
+Development	Expert System Development Environment	5798-DXB	35000	1750									.G325-0040	MVS Consultation env	25H
Development	Expert System Development Environment	5798-RHQ	35000	1750									.G320-0828	ESCE	25H
Development	EDX PXS Development Support Version 3	5796-REE		85							12		.GB30-1600	Series/1	15H
+Development	Graphics Development Toolkit	5669-050	700										SV21-8058	RT AIX tm	05H
-Development	Graphics Development Toolkit	6024-196	385										G520-1107	Replaced by 6280082	05Z
+Development	Graphics Development ToolKit 1.1	6280-076	495											PC,XT,AT,PPC,PCjr	05Z
+Development	Graphics Development Toolkit 1.1	6280-076/01	800											Redistribution Licen	05Z
+Development	Human Life: Development & Differentiatn	6024-414	65										G520-1107	PC,XT,AT,PCjr,color	05Z
+Development	Human Life: Development & Differentiatn	6024-444	295										G520-1107	PC,XT,AT,PCjr,color	05Z
Development	Information Development / VSE 1.1	5666-323	1800		100	1620		90	17	27			GC33-6216	CSP+GDDM	15K
Development	IMS Application Development Facil II V2	5665-358	54890			2750	61160				200	320	.GH20-6291	IMS	25K
Development	ISPF / Program Development Facility	5664-172		1235	206		925	128	19	31			.GC34-2078	MV/CMS	15K
Development	ISPF / Program Development Facility	5665-268		1350	352		1015	264	30	48			.GC34-2078	MVS/TSO,MVS/XA	15K
Development	ISPF Program Development Facility 2.2	5665-317		4025	575		3015	431	14	22			.GC34-2136	ISPF	15K
Development	ISPF/Program Development Facility 2.2	5664-285	10450	3780	540	9405	2835	404	10	16			.GH34-2181	VM	15K
Development	ISPF/Program Development Facility 1.1	5666-281		960	150		720	111	15	24			.GC34-2078	VSE+ICCF	15K
-Development	ISPF/PC Development Facility	6410-980	130										.0520-3917	EZ-VU Runtime	05X
+Development	ISPF/PC II Development Subscriber Update	6265-484	30										0520-6006	6317026	05G
+Development	ISPF/PC II Development Facility	6317-026	495										.0520-6006	Runtime (6317025)	05G
-Development	Managing Appl Development - Plan & Track	5798-DHA	1055										.GB21-2887	OS/VS,VSE	15X
-Development	Managing Appl Development - Bar Charter	5798-DMX	396										.GB21-3082	OS/VS,DOS/VSE	15X

Keyword	Program Title	Number	OTC	ILC	MLC	DSQ	DSI	DSM	MLP	MHL	Mo	MoreInfo	Environment	TPLS
Development	Process Development System	5798-DIA	2850									.GB30-2004	Series/1	1SX
-Development	UCSD p-System (R) Development System	5608-MS2	950									G552-0371	Displaywriter	1SX
+Development	XENIX tm Software Development System 2.0	59X9-939	599									SV21-8078	XENIX 2.0	0SZ
-Development	3650 Application Development Debug	5798-DGY	847		77						12	.0821-2883	05/V5, D05/VSE	1SH
Development	Cross System Product / Applic Developmt	5660-284	4800		215	4080	150	25	40			.GH20-0940	DPX/SP+5660-264	1SK
Development	Education Info Syst - Section Developmt	5796-PQT	8910									.G320-6665	5796-BAZ	1SX
Developmt	Business Report/Application Developmt Sys	6201-872	1250									.G280-0237	System/36 PC	0SG
Device	AHA Medical Device Database	7798-MDD	nc										Information Network	NOSC
Device	Data Facility Device Support	5740-AM6			90			67	25	40		GC26-3954	05/V51+5662-257	1SK
Device	Device Support Facility for MVS/XA 1.8	5655-257	nc									GC26-3946	3340,3344,3350,3380	NOSS
Device	Device Support Facilities for Standalone	5747-DS1	nc									GC26-3946	3340,3344,3350,3380	NOSS
Device	Device Support Facilities for VSE 1.8	5747-DS2	nc									GC26-3946	3340,3344,3350,3380	NOSS
Device	Direct Access Storage Device Migration	5668-002	1450							19	30	GC26-3972	05/V5+3375/3380	0IX
-Device	DASD Device Independence Open	5798-AHH	1080			49						.0821-1002	D05/V5	0IH
Device	Storage Device Migration Aid	5796-FHP	6195		279							.G320-5714	05, 05/V5, MVS/XA	1IX
+Device	THE FIX Device Driver for IBM DACA	5793-AQG/05	795									GB30-2027	5793-AGN	0SY
+Device	THE FIX Device Driver for ACR0-900 tm	5793-AQG/06	795									GB30-2027	5793-AGN	0SY
+Device	THE FIX Device Driver for PLC-2 tm	5793-AQG/07	795									GB30-2027	5793-AGN	0SY
+Device	THE FIX Device Driver for DT 2808	5793-AQG/08	795									GB30-2027	5793-AGN	0SY
+Device	THE FIX Device Driver for MODBUS tm	5793-AQG/09	1095									GB30-2027	5793-AGN	0SY
+Device	THE FIX Device Driver for OPTOMUX tm	5793-AQG/10	795									GB30-2027	5793-AGN	0SY
Device	Virtual Device Interface Drivers	6168-460	nc									S126-0094	Toolkit (6024196)	NOSZ
Device	3270 Device Emulation on S/34	5726-EM1	5500		223	4125	167					GC21-7807	System/34	1SX
Device	3270 Device Emulation BSC	5799-BEZ											System/34	0SX
Device	3270 Device Emulation SNA	5799-BGH											System/34	0SX
Devices	231x Emulator on FBA Devices	5747-SA1	nc										D05/VSE	NOSJ
Devive	SSP 3270 Devive Emulation	5727-556/02	1100			825						6580-0570	4773	0SH
Dev	Cross System Product / Applic Devt Ver 1	5668-944	5565	960	227	5005	720	172	34	54		.GH20-0940	CSP/Applic Execution	2SK
-Dev	Graphics Devt Toolkit 1.1 Upg from 1.0	6280-082	250										6024196	0SZ
+Dev	ISPF/PC II Devt Nonsubscriber Updates	6265-485	55									0520-6006	6317026	0SQ
+Dev	THE FIX Eng Devt with EPROM for C/GA	5793-AQG/02	2100									GB30-2027	Industrial PC	0SY
+Dev	THE FIX Eng Devt with EPROM for EGA	5793-AQG/03	2100									GB30-2027	Industrial PC	0SY
+Dev	Upg XENIX or PCIX Devt Sys to 59X9939	59X9-934	299										SoftDev 1.0 or 1.1	0SZ
+Dev	Concept Devt: Heat, Temperature & Graphs	6024-474	75										128K+color	0SG
DFAS	Accounts Payable Distributors	5726-D6B	1260		59							.GH30-0219	System/34	1IC
DFAS	General Ledger Definitions	5798-RGN	330									.GH30-2140	Retrieval/34	1SX
DFAS	General Ledger Distributors	5726-D6A	1260		59							.GH30-0219	System/34	1IC
DFAS	Payroll Distributors	5726-D6C	1575		77							.GH30-0219	System/34	1IC
DFAS II	Accounts Payable	5726-M43	2675		108	2010	79					.GH30-0221	System/34	1IX
DFAS II	General Ledger	5726-M47	2675		108	2010	79					.GH30-0221	System/34	1IX
DFAS II	Payroll Distributors Mfg MAPICS	5726-M42	3620		146	2715	109					.GH30-0221	System/34	1IX
-DFAS-II	DFAS II File / Record Definitions	5798-RGN	330									.GH30-2140	Retrieval/34	1SX
DFDS	Data Facility Device Support	5740-AM6			90			67	25	40		GC26-3954	05/V51+5662-257	1SK
DFDSS	Data Facility Data Set Services 2.2	5665-327			215			161	38	61		GC26-4123	Data Facility Product	1SK
DFDSS	MVS/SP - JES2 1.1	5740-XY5			2150			1612	117	187		GC28-1395	5752-VS2	2SK
+DFHSM2.2.1	Data Facility Hierarchical Storage Mgr	5665-329	800			800		600	141	226		SC33-0223	MVS.XA	1SK
DFIS	Geo-Facilities Data Base Support	5799-BEB	44550		2025						36	.GH20-2482	IMS+5799-AYB	2SB
+DFP	Data Facility Product Version 2.2	5665-XA2			1025			769	349	547		GC26-4142	XA	2SK
-DFP	Data Facility Product Version 1.1	5665-284			1590	600		1191	450	93	149	GC26-4007	Superceded by Ver 2	2SK
DFP	Data Facility Product	5665-295			1590	600		1191	450	186	298	GC26-4050	MVS	2SK

Keywords - Alphabetic Sequence

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Codes Explained in Appendix B



Keyword	Program Title	Number	OTC	ILC	MLC	DSO	DSI	DSM	MLP	HML	Mo	MoreInfo	Environment	TPLS	
DFSORT	Data Facility Sort 1.8	5740-SM1													
DFU	Utilities	5726-UT1	1600		247									1SK	
-DI-Open	DASD Device Independence Open	5798-AH8	1080		64	1200		48					GC21-7659	System/34	1SX
DI-Open	DASD DI-Open Enhancement	5798-AH9/01	150		49								.GB21-1002	DOS/VS	0IH
+Diag	Allen-Bradley PLC-2 Wiring Diag Generat	5795-ACX/02	500										.GB21-1002	9534	0IH
+Diag	Allen-Bradley PLC-3 Wiring Diag Generat	5795-AGC/01	500											Industrial PC	0SY
+Diagnostics	Diagnostics Diskettes Version 29 8*	5669-135	nc											Industrial PC	0SY
-Diagram	Graphic Online Diagram Display	5798-DMX	21780		990							24.G320-6059	MVS/TSO VM/CMS		NOSX
+Diagram	Modicon Wiring Diagram Generator	5793-AHF/01	500											Industrial PC	0SY
+Diagram	Modicon 484 Wiring Diagram Generator	5793-AHE/02	500											Industrial PC	0SY
+DIAGRAM-MASTER	DIAGRAM-MASTER tm	6187-156	345										.GB30-2037	PC,XT,AT,3270-PC	0SY
Dialog	Document Library Facility Dialog	5798-DOA	1980										.G320-0360	MVS/DLF/DCF+15PF	1SX
Dialog	DPCX DOSF Dialog Manager	5785-ECG	907										.GB21-3080	DPCX+DO5F	1SX
Diary	Legal Diary System	5796-BTT	49500											CICS/OS/VS	2SX
DIBOL	IX CONNEXION Compiler (DIBOL tm)	6317-043	850										.G320-0912	PC/IX	0SH
DIBOL	IX CONNEXION Compiler (DIBOL tm)	6317-062	975										.G320-0912	XENIX tm	0SH
DIBOL	IX CONNEXION Runtime (DIBOL tm)	6317-044	425										.G320-0912	6317043	0SH
DIBOL	IX CONNEXION Runtime (DIBOL tm)	6317-063	500										.G320-0912	6317062	0SH
Dictionaries	DisplayWrite/36 English Dictionaries	5727-WP2	120				105	105					G580-0454	DisplayWrite/36	1SA
Dictionaries	DW/36 English Dictionaries	5727-WP7/01	90										G580-0570	4787	0SH
Dictionaries	DW/36 Language Dictionaries	5727-WP7	nc										G580-0570	System/36 PC	NOSX
Dictionaries	Language Dictionaries	5714-DCT	195				172						GC09-1021	5714-WP2	1SA
Dictionary	Data Dictionary - DB/DC	5740-XXF		1110				832	115	184			GH20-9104	IMS/VS,CICS/OS/VS	2SK
Dictionary	Data Dictionary Report and File Generat	5740-XXF/01	15000	555	11250			401	11	17				6576	1SK
Dictionary	Data Dictionary - DB/DC	5746-XXC		491				367	91	146			GH20-9193	DOS/VS,DL/I,CICS/VS	2SK
-Dictionary	Data Dictionary Language Preprocessor	5798-DEQ	660		60							12.GB21-2758	OS/VS		1SH
Dictionary	Data Dictionary Utilities Enhanced	5798-DEP/01	960										.GB21-2746	4601	1SX
Dictionary	Data Dictionary Language Preprocessor	5798-DHG	808										.GB21-2902	DOS/VSE,DL/I	1SX
-Dictionary	Data Dictionary Utilities	5798-DHQ	715										.GB21-2920	DOS/VSE,DL/I	1SX
Dictionary	Data Dictionary Job Stream Processor	5798-DQN	7150		325								.G320-0335	MVS	1SH
Dictionary	Data Dictionary DB2 Interface	5798-DRP	4000										.G320-9241	DB2	1SS
Dictionary	Dictionary Dog	6024-067	49										G520-1107	PC,XT,PCjr,PPC,AT	0SZ
Dictionary	DisplayWrite/36 French I Dictionary	5727-WP2/01	120			105							G580-0454	4763,6064	1SA
Dictionary	DisplayWrite/36 Spanish Dictionary	5727-WP2/03	120			105								4763,6064	1SA
Dictionary	DisplayWrite/36 Italian Dictionary	5727-WP2/04	120			105								4763,6064	1SA
Dictionary	DisplayWrite/36 Danish Dictionary	5727-WP2/05	120			105								4763,6064	1SA
Dictionary	DisplayWrite/36 German Dictionary	5727-WP2/06	120			105								4763,6064	1SA
Dictionary	DL/I to IMS Data Dictionary Migration	5798-DLN	2200										.G320-9196	VSE and IMS	1SH
Dictionary	DW/36 Danish Dictionary	5727-WP7/06	90										G580-0570	4787	0SH
Dictionary	DW/36 French I Dictionary	5727-WP7/02	90										G580-0570	4787	0SH
Dictionary	DW/36 French II Dictionary (Canada)	5727-WP7/03	90										G580-0570	4787	0SH
Dictionary	DW/36 German Dictionary	5727-WP7/07	90										G580-0570	4787	0SH
Dictionary	DW/36 Italian Dictionary	5727-WP7/05	90										G580-0570	4787	0SH
Dictionary	DW/36 Spanish Dictionary	5727-WP7/04	90										G580-0570	4787	0SH
-Dictionary	Legal Extended Spellings Dictionary	5608-SRB	195											Textpack 6	0SE
Dictionary	PCS ADS Data Dictionary Interface	5796-BTR	2475										.G320-9150	5740-XXF,5746-XXC	1SX
DIF	Display Information Alpha Search	5716-YR1	3410			119	2560		89				.GH50-0145	System/38	1IB
Diff equ	Engineering Simulation Program	6317-031	639										.G320-0821	PC,XT,AT+08087+FORTRA	0SH
Diff equations	Dynamic Simulation Language/VS	5798-PXJ	10000		454								.G320-0357	VM,MVS,XT,3730	1SH
Diff equations	NAG tm FORTRAN PC50 Library	6187-277	345										.GB30-2037	PC,XT,AT,RT	0SY

Keyword	Program Title	Number	OTC	ILC	MLC	DSO	DSI	DSH	MLP	MHL	Mo	MoreInfo	Environment	TPLS
+Differentiatn	Human Life: Development & Differentiatn	6024-614	65									G520-1107	PC,XT,AT,PCjr+color	05Z
+Differentiatn	Human Life: Development & Differentiatn	6024-444	295									G520-1107	PC,XT,AT,PCjr+color	05Z
Diffusion	Passive Transport, Diffusion and Osmosis	6024-320	65									G520-1107	PC,PCjr,XT,AT,PPC	05Z
Diffusion	Passive Transport, Diffusion and Osmosis	6024-389	295									G520-1107	PC,PCjr,XT,AT,PPC	05Z
Digimap	Digital Interactive Graphics / Mapping	5668-959	16610		755							.GH20-5508	5799-AYB,AXX,CMS,T50	15X
Digital	Digital Interactive Graphics / Mapping	5668-959	16610		755							.GH20-5508	5799-AYB,AXX,CMS,T50	15X
Digital	Digital Research FORTRAN 77 tm	6871-437	350									.GB20-2037	PC,ST,3270-PC	05Y
Direct	Direct Access Storage Device Migration	5668-002	1450							19	30	GC26-3972	05/VS+3375/3380	01X
Direct	Direct Access Storage Dump Restore	5740-UT1	2800		167							.GH20-9116	05/VS1,05/VS2,05/MFT	15C
Direct	Direct Multinetwork Link to S.M.I.F.T.	5666-269			3500	820						.GH12-5142	C1CS/D0S/VS+5668-926	15K
Direct	Direct Multinetwork Link to S.M.I.F.T.	5668-964			6525	1595						.GH12-5142	1MS/VS+5668-926	15K
Direct	Direct Multinetwork Link to S.M.I.F.T.	5668-965			4280	1280						.GH12-5142	C1CS/05/VS+5668-926	15K
Direct	Direct S.M.I.F.T. Terminal 500 Link	5668-857	24200		1100							.GH12-5149	DMNL+ST500+3705/25	15B
Direct	Direct S.M.I.F.T. Network Link	5668-926			2000	299						.GH12-5142	C1CS/VS,1MS/VS+BTAM	15K
Direct	Direct S.M.I.F.T. Link	5740-F16	42130		1915							.GH12-5133	C1CS/05/VS	15X
Direct	Direct S.M.I.F.T. Link	5740-F16	4990		2270							.GH12-5133	1MS/VS	15X
Direct	Direct S.M.I.F.T. Link	5746-F14	34430		1565							.GH12-5133	C1CS/D0S/VS, D0S/VSE	15B
Direct	Direct Store Vendor Delivery Control	5796-BBE			655							24.0320-6423	D0S/VS C1CS DL/I	15H
-Direct	EDX Direct Store Delivery System	5798-RLN	1200									.GB30-1998	Series/1	15X
Direct	Info/MVS Direct Load Feature	5665-955/01			380								4582	05C
Direct	Info/MVS Direct Load Feature	5668-919/01			190								4788	05C
Directory	Directory Maintenance	5748-XE4			112							GC20-1836	VM/SP/CMS	15K
Directory	Executive Phone Directory Build Your Own	6276-524	150						84	30	48		PC,XT,3r,AT,3270-PC	05R
Directory	Executive Phone Directory	6276-528	35										PC,XT,3r,AT,3270-PC	05R
Directory	Executive Phone Directory + Message Feat	6276-533	40										PC,XT,3r,AT,3270-PC	05R
Directory	Phone Directory On-Line	6276-522	25										PC,XT,3r,AT,PPC	05R
Directory	Phone Directory and Print Buffer On-Line	6276-523	35										PC,XT,3r,AT,PPC	05R
DIRMAINT	Directory Maintenance	5748-XE4			112				84	30	48	GC20-1836	VM/SP/CMS	15K
Disbursements	Disbursements from Displaywriter	5793-ABR	2200									.GB30-2170	5793-AAZ+ABZ	05X
Disbursements	Disbursements from Copier/Postage	5793-ABX	2200									.GB30-2170	5793-AAZ+ABZ	05X
Disbursements	Office Sys - Disbursements from Phone	5793-ABY	2200									.GB30-2170	5793-AAZ+ABZ	05X
Disconnect	Line Disconnect	5799-BFK	nc											N05X
-DISCOVER	Career Guidance System- Secondary School	5796-AYB			250							24.0320-6176	5796-AYA	15H
-DISCOVER	Career Guidance System- Adults / College	5796-AYC			250							24.0320-6176	5796-AYA	15H
-DISCOVER-	DISCOVER- Career Guidance System - Base	5796-AYB			750							24.0320-6176	D0S/VSE V51	15H
DiscreteSimultn	Research Queuing Package	7798-R5Q	7800										VM, MVS	05E
Diseases	Pathology: Diseases and Defenses	6024-343	65									0520-1107	PC,PCjr,XT,AT,PPC	05Z
Diseases	Pathology: Diseases and Defenses	6024-390	295									0520-1107	PC,PCjr,XT,AT,PPC	05Z
Disk repair	Professional Debug Facility	6024-143	165									0520-1107	PC,XT,PPC	05Z
+Diskettes	Diagnostics Diskettes Version 29 8"	5669-135	nc										CS05_1_13	N05X
Diskettes	XENIX tm (on ten eight-inch diskettes)	6331-444	995									GC22-9248	System 9000	05E
DISOSS	Distributed Office Support System Ver 3	5665-290			4570	1485						GC30-3085	C1CS/VS+MVS,XA	25K
DISOSS	Distributed Office Support System Ver 3	5666-270			1710	570						GC30-3085	C1CS/VS+VSE	25K
DISOSS	Distributed Office Support System Rel 3	5668-955	4320		235	3670						.GH12-5139	D0SFDISOSS Ver 2/3	25K
DISOSS	Distributed Office Support Facility Rel6	5761-XR1	17300		805	10455						GC27-0546	DPCX	15K
DISOSS	DPCX DISOSS Extensions	5785-ECF	1690									.0320-9209	D0SFD	15H
DISOSS	Host Print Facility	5740-XY9/03	3870		176							.GH12-5124	6113,6234	25B
+DISOSS	Personal Services/PC 1.2	6476-054	275										PC,XT,AT,3270-PC+10M	05M
DISOSS	Professional Office System	5664-176	22000		5000	895	19790	3745	710			.GH20-5601	VM	25B
DISOSS	STAIRS Input Formatter	5740-XY9/02	5760		262							.GH12-5124	6109,6232	25B

Keywords - Alphabetic Sequence

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Codes Explained in Appendix B

Keyword	Program Title	Number	OTC	ILC	MLC	DSO	DSI	DSM	HLP	HML	Ho	MoreInfo	Environment	JPLS
DISOSS	5520 Administrative Processing Prog 3.2	5611-SS2	10500		445							GC23-0702	5520 Admin. System	15A
DISOSS/VSE	Distributed Office Support / 370 Ver 2	5666-264	29370		1335	22110		1005	214	342		.GH12-5139	DOS/VSE & CICS/VS	25K
DISOSS/370	Distributed Office Support / 370 Ver 2	5668-982	29150		1325	21970		999	255	408		.GH12-5139	OS/VS,IMS/VS,CICS/VS	25K
Display	CAMMORaph Display Enhanced Graphics	5793-AEY/04	2600									GB30-2037	6508	05Y
Display	CPS 4978/4979 Display Station	5799-TAK	168		7						24	GC34-1575	Series/1	15C
Display	CPS 4978/4979 Display Map	5799-TBE	120		5						24	GC34-1585	Series/1	15C
Display	CPS 4979 Display Station	5799-TAE	48		2						24	SC34-1554	Series/1	15C
Display	Display Information Alpha Search	5714-XR1	3410		119	2560		89				.GH30-0145	System/38	11D
Display	Display Management System / 3790	5748-XC2	7300		415							.GH20-2002	DOS/VS,OS/VS	15C
Display	Display Management System / CMS	5748-XXB			40			27	9	14		GC24-5137	VM/SP	15K
Display	Display Management Systems	5799-AFD	53350		4850						12	.SH20-1745	5799-AHE	21R
Display	Graphic Data Display Manager	5748-XXH		767	159		575	120	36	58		GC33-0100	VM,CICS,IMS,MVS	15K
-Display	Graphical Online Diagram Display	5798-CHX	21780		990						24	.G320-6059	MVS/TSO VM/CMS	15H
+Display	Graphical Data Display Mar/ graphIGS 1.2	5668-792			500								GAM or ODDM	15E
Display	Graphical Display and Query Facility 1.3	5668-905	20000	1365	455								MVS,VM+ODDM+3270	15E
-Information	Information Display Program	5798-DMN	2200									.GB21-3062	MVS,VM+3270	15X
Display	Interactive Display Text Facility	5668-956	3000		97	2550		73				GA33-3115	DOSF,DPCX,DPX	15E
-Display	Local Display Terminal Simulator	5798-DMQ	3300									.GB21-3066	DOS/VSE	15X
Display	Spool Display and Search Facility	5798-DGN	1650									.GB21-2865	MVS,MVS/XA	15H
+Display	SSP Display Station Pass-Through	5727-SSI/14	500		40	440						6079,4687,4688,4689		15A
Display	TSO / JES2 Batch Display Facility II	5798-DMB	1650									.GB21-3037	MVS	15X
Display	Virtual Spooled Reader Display	5796-AYK	1055									.G320-6338	VM/CMS	15H
DisplayComm	DisplayComm Binary Synchronous Communica	6024-187	409									G520-3917	PC,XT,PPC	05Z
DisplayComm	DisplayComm Bisynch Communications V1.1	6024-210	409									G520-1107	PC,AT+DOS 2.1 or 3.0	05Z
DisplayWrite	DisplayWrite Legal Support	6024-190	179									G520-3917	DisplayWrite 2	05Z
*DisplayWrite	DisplayWrite Medical Support	6024-197	179									G520-1107	DisplayWrite 2 V1.1	05Z
DisplayWrite	DisplayWrite 1	6024-188	99									G520-3917	PC,XT,PCjr,3270-PC	05Z
DisplayWrite	DisplayWrite 2 Computer-Based Training	7732-281	250									G320-1244	PC,AT+DisplayWrite 2	05C
DisplayWrite	DisplayWrite 3 Version 1.1	6280-845	450									PC,XT,AT,3270-PC		05Z
+DisplayWrite	DisplayWrite 3 1.1	6489-786	450									PCCC-584K		05B
*DisplayWrite	DisplayWrite 3 Computer-Based Training	7732-284	300											05C
DisplayWrite	Document Retrieval Assistant	6024-306	149									.G520-1107	PC, PCjr,XT,AT,PPC	05Z
DisplayWrite	SlideWrite	6317-034	225									G520-1107	All except PCjr	05Z
DisplayWrite 2	PROFS Personal Computer Connection to VM	6410-984	219									.G320-0652	PROFS+ISPF/PC+DOS2+	05H
DisplayWrite 2	5218 Printer Driver	6293-576	175									G570-2063	PC,XT,3270-PC,PPC	05Z
DisplayWrite/36	DisplayWrite/36	5727-HP1	2000		133	1760						G580-0454	System/36	15A
DisplayWrite/36	DisplayWrite/36 English Dictionaries	5727-HP2	120		105		105					G580-0454	DisplayWrite/36	15A
DisplayWrite/36	DisplayWrite/36 French I Dictionary	5727-HP2/01	120		105							G580-0454	4763,6064	15A
DisplayWrite/36	DisplayWrite/36 French II (Canada) Dictn	5727-HP2/02	120		105							G580-0454	4763,6064	15A
DisplayWrite/36	DisplayWrite/36 Spanish Dictionary	5727-HP2/03	120		105								4763,6064	15A
DisplayWrite/36	DisplayWrite/36 Italian Dictionary	5727-HP2/04	120		105								4763,6064	15A
DisplayWrite/36	DisplayWrite/36 Danish Dictionary	5727-HP2/05	120		105								4763,6064	15A
DisplayWrite/36	DisplayWrite/36 German Dictionary	5727-HP2/06	120		105								4763,6064	15A
DisplayWrite/36	DisplayWrite/36	5727-HP6	800		600							G580-0570	System/36 PC	05H
DisplayWrite/36	TMS/36 Upgrade to DisplayWrite/36	5727-TX1/01	550										Order 5727-HP1/01	15S
+DisplayWrite/37	DisplayWrite/370	5664-370	14000		665	10500		500	42	60		.VM		25K
+DisplayWrite/37	DisplayWrite/370	5665-382	14000		665	10500		500	42	60		.CICS/MVS		25K
+DisplayWrite/37	DisplayWrite/370	5666-338	6000		285	4500		215	42	60		.CICS/VSE		25K
Displaywriter	Disbursements from Displaywriter	5793-ABR	2200									.GB30-2170	5793-AAZ+ABZ	05X
Displaywriter	Displaywriter - Information Exchange	5798-RPL	726									.GB30-2215	S/36+Displaywriter	15X

Keyword	Program Title	Number	OTC	ILC	MLC	DSO	DSI	DSH	MLP	MML	Mo	MoreInfo	Environment	TPLS
-Displaywriter	Displaywriter Bisynch Support to PROFS	5798-DKR	4250	472	172								.GB21-3016 VM/SP + RSCS	15X
Displaywriter	Host to Displaywriter Document Interchg	5799-BXF	3315										GC09-1037 5796-PMP+5608-SR9	2SD
Displaywriter	Host to Displaywriter Document Interchg	5799-BXG	6095										GC09-1037 5796-PRH+5608-SR9	2SD
-Displaywriter	Information Exchange with Displaywriter	5798-RJY	660										.GB30-1857 S/34+Displaywriter	15X
Displaywriter	Office System - Time From Displaywriter	5793-ABQ	2200										.GB20-2170 5798-AAZ+ABZ	05X
-Displaywriter	3277 Emulation for Displaywriter	5799-BHT	450										GA09-1679 Displaywriter	05E
Displaywriter/P	Displaywriter/PC Attach Convenience Kit	6403-728	495										0544-2280 Textpack4+6024107	05E
+Distance	Measurement Process: Distance & Area	6024-470	75										0520-1107 PC.XT,AT,PCjr+color	05Z
Distb	DPX Distb Document Formatting Facility	5785-RAA	1980										.G320-0355 8100	15X
Distb	DPX Distb Plant Maint Work Order	5787-GAA/01	14850										6001	23
Distrib	DMAS II Acct Rec Enhance - Food Distrib	5798-NXZ			138								12.GB30-1340 System/34	15H
Distrib	DMAS II Billing Enhance - Food Distrib	5798-NXZ			207								12.GB30-1340 System/34	15H
-Distrib	Point-of-Sale Data Collection & Distrib	5798-NYA	3110		283								12.GB30-1397 Series/1	15H
-Distributed	Distributed Data Transfer - Host	5798-DCA	1210		110								12.GB21-2594 OS/VS.DDS+5798-DCF	15H
Distributed	Distributed Disk File Facility	5799-BCP			114			86					GC21-7872 System/34	15X
Distributed	Distributed Intelligence System/7 - 370	5744-BK1	nc										GC34-0057 OS/VS	N0SC
Distributed	Distributed Office Support System Ver 3	5665-290		4570	1485		34251110	223	357				GC30-3085 CICS/VS+MVS,XA	25K
Distributed	Distributed Office Support / 370 Ver 2	5666-264	29370		1355	22110		1005	214	342			.GH12-5139 D0S/VSE & CICS/VS	25K
Distributed	Distributed Office Support System Ver 3	5666-270		1710	570		1275	425	176	282			GC30-3085 CICS/VS+VSE	25K
Distributed	Distributed Office Support System Rel 3	5668-955	4320		235	3670		200	43	68			.GH12-5139 D0S/VS+D0S05S Ver 2/3	25K
Distributed	Distributed Office Support / 370 Ver 2	5668-982	29150		1325	21970		999	255	408			.GH12-5139 OS/VS,IMS/VS,CICS/VS	25K
Distributed	Distributed Office Support Facility Rel6	5761-XR1	12300		805	10455		683	115	184			GC27-0546 DPXC	15K
Distributed	Distributed Processing Programming Exec.	5660-281	19600		869	16660		738	312	499			GC23-0600 3100	25K
Distributed	Distributed Processing Program Executive	5760-010	8400		335	7140		285	170	272			GC27-0400 8100	15K
Distributed	Distributed Processing Control Executive	5761-DS1	6900		472	5865		402	111	177			GC22-9075 8100	15K
Distributed	Distributed Systems Executive 3.1	5668-915		2700	1035		2025	776	88	140			.GC23-0108 MVS+VTAM/TCAM	15K
Distributed	Distributed Systems Executive Ver 2	5668-986		1220	468		915	350	44	69			.GH19-6229 VTAM/E,TCAM+8100	15K
Distributed	Distributed Workstation Support	5740-XYE			174			130	36	58			GC24-5193 OS/VS1	15K
-Distributed	DPXC Distributed Data Transfer	5798-DCF	242		22								12.GB21-2594 5798-DCA	15H
-Distributed	DPXC 3790 Distributed Entry Query	5798-CZE	2505										.GB21-2431 D0S/VSE OS/VS D0SF	15H
Distributed	DPX Distributed Presentation Serv Ver 2	5660-264			180			135	18	29			DPX	15K
Distributed	DPX Distributed Presentation Serv Ver 1	5760-XR1	1500		56	1275		47	11	17			GC33-0090 DPXC	15K
Distributed	DPX Distributed Plant Maintenance	5787-GAA	17400	1560	599								.GB21-2895 8100	25X
Distributed	DPX Distributed Connection Facility	5798-DKX	990										.GB21-3025 DPXC	15X
Distributed	SSP Distributed Disk File Facility	5727-SS1/07	3000		171	2640							GC21-9021 4514,4515,4606	15A
Distributed	SSP Distributed Data Management	5727-SS1/09	2500		165	2200							4733,4734,6054	15A
Distributed	SSP Distributed Data Management	5727-SS6/05	1875			1406							G580-0570 4776	05H
-Distributed	3730 Distributed Office Support for 6670	5798-DCW	1505		137								12.GB21-2631 CICS/OS/VS	15H
Distribution	Accounts Payable Distribution	5714-D48	2675		93	2010		70					.GH30-0710 System/38	11D
Distribution	Accounts Receivable Distribution	5714-D42	4355		151	3265		112					.GH30-0130 System/38	11X
Distribution	Customer Service Billing Distribution	5714-D41	4985		173	3735		129					.GH30-0130 System/38	11X
Distribution	Construction Information	5712-AAB	60500	5500									12.GE20-0613 D0S/OS,IMS/CICS/VS	05C
Distribution	Distribution Control - Common Features	5793-AAE	20570										.GB30-2064 CICS/D0S/VS	15X
Distribution	Distribution Control - Order Entry	5793-AAF	11990										.GB30-2064 5793-AAE	15X
Distribution	Distribution Control - Accts Receivable	5793-AAG	8360										.GB30-2064 5793-AAE	15X
Distribution	Distribution Control - Purchasing	5793-AAH	7150										.GB30-2064 5793-AAE	15X
Distribution	Distribution Control - Billing	5793-AAJ	9570										.GB30-2064 5793-AAE	15X
Distribution	Distribution Control - Inventory Control	5793-AAK	8360										.GB30-2064 5798-AAE	15X
Distribution	Distribution Control - Common Features	5793-ACA	20570			935							.GB30-2064 4300+MVS+CICS/VS	15X
Distribution	Distribution Control - Order Entry	5793-ACB	11990		545								.GB30-2064 5793-ACA	15X

Keywords - Alphabetic Sequence

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Codes Explained in Appendix B

Keyword	Program Title	Number	OTC	ILC	MLC	DSO	DSI	DSM	MLP	MML	Mo	MoreInfo	Environment	TPLS
Distribution	Distribution Control - Accounts Receivbl	5793-ACC	8360		380							.GB30-2064	5793-ACA	15X
Distribution	Distribution Control - Purchasing	5793-ACD	7150		325							.GB30-2064	5793-ACA	15X
Distribution	Distribution Control - Billing	5793-ACE	9570		435							.GB30-2064	5793-ACA	15X
Distribution	Distribution Control - Inventory Control	5793-ACF	8360		380							.GB30-2064	5793-ACA	15X
+Distribution	Distribution Control System - CommonFeat	5793-ADP	21000									.GB30-6003	VSE	15H
+Distribution	Distribution Control System - OrderEntry	5793-ADG	14000									.GB30-6003	VSE+CommonFeat	15H
+Distribution	Distribution Control System - Inventory	5793-ADH	9500									.GB30-6003	VSE+CommonFeat	15H
+Distribution	Distribution Control System - Inventory	5793-ADJ	10000									.GB30-6003	VSE+CommonFeat	15H
+Distribution	Distribution Control System - Purchasing	5793-ADK	7500									.GB30-6003	VSE+CommonFeat	15H
+Distribution	Distribution Control System - Accts Rec	5793-ADL	8500									.GB30-6003	VSE+CommonFeat	15H
+Distribution	Distribution Control Sys INFOREM Xface	5793-ADN	10000									.GB30-6003	5793-ADF+INFOREM II	15H
+Distribution	Distribution Control System - CommonFeat	5793-AFG	21000									.GB30-6003	MVS	15H
+Distribution	Distribution Control System - OrderEntry	5793-AFH	14000									.GB30-6003	MVS+CommonFeat	15H
+Distribution	Distribution Control System - Inventory	5793-AFJ	9500									.GB30-6003	MVS+CommonFeat	15H
+Distribution	Distribution Control System - Inventory	5793-AFK	10000									.GB30-6003	MVS+CommonFeat	15H
+Distribution	Distribution Control System - Purchasing	5793-AFL	7500									.GB30-6003	MVS+CommonFeat	15H
+Distribution	Distribution Control System - Accts Rec	5793-AFN	8500									.GB30-6003	MVS+CommonFeat	15H
+Distribution	Distribution Control Sys INFOREM Xface	5793-AFP	10000									.GB30-6003	5793-AFG+INFOREM II	15H
Distribution	Distribution Purchasing Management Syste	5796-PTB		3400	977						24	G320-9143	DOS/VSE	15H
Distribution	Document Distribution to Remote 5520	5798-RRJ	1540									.GB30-2213	System/36+5520	15X
-Distribution	Electronic Document Distribution	5608-SR8	565									G544-2139	Displaywriter	05E
Distribution	General Ledger Distribution / Media	5714-D47	2675		93	2010		70				.GH30-0710	System/38	11D
Distribution	Image Distribution System - Scanmaster	5799-BJA	8800		440							SH18-0058	CICS/DOS/V5	15X
Distribution	Image Distribution System - Scanmaster	5799-BJB	8000		428							SH18-0058	CICS/DOS/V5	15X
Distribution	Inventory Control Distribution	5714-D43	4670		163	3505		123				.GH30-0130	System/38	11X
Distribution	Payroll Distribution	5714-D49	3410		119	2560		89				.GH30-0710	System/38	11D
Distribution	Purchasing Distribution	5714-D45	9605		335	7205		250				.GH30-0595	System/38	11X
Distribution	Receiving, Checking & Distribution System	5796-PXQ	20350									.G320-9146	MVS+PARIS/Base	15H
Distribution	Report Distribution Processor II	5798-DTX	2100									.G320-0801	MVS	25H
Distribution	Report Management & Distribution System	5665-310		5720	858							.GC30-3191	MVS+CICS/V5,IMS/V5	15E
Distribution	RFS Audio Distribution System	5719-U20	12700		480							G580-0363	5719-PC5,-PL4	15E
Distribution	RFS Audio Distribution System Version 2	5719-U21	15200	1850	1015							G520-1060	Series/1+PL/1	15H
Distribution	Sales Analysis Distribution	5716-D44	4040			139	3030	105				.GH30-0130	System/38	11D
+Distribution	SSP Automatic PTF Distribution	5727-SS1/11	285										4973	15E
Distribution	SSP Automatic PTF Distribution	5727-SS6/06	155									G580-0570	4798	05H
Distribution	4700 Format Distribution Services V2	5799-BZD	16500			1470							4700 Host Support	15E
Distributn	4700 Finance System - Format Distributn	5799-BQZ	11000			979							5668-989+5799-BQY	15E
Distributor	6670 Information Distributor Support	5798-RPK	1210									.GB30-2219	System/36	15X
Distributor	6670 Information Distributor	5798-RRB	2060									.GB30-2301	System/38	15X
Distributors	Accounts Payable Distributors	5726-D6B	1260		59							.GH30-0219	System/34	11C
Distributors	Accounts Receivable Distributors	5726-D4B	1650		86							.GH30-0093	System/34	11X
Distributors	Accounts Receivable Distributors	5726-D42	2675		108	2010		79				.GH30-0185	System/34	11X
Distributors	Accounts Receivable Food Distributors	5726-D66	1815		95							.GH30-0156	System/34	11X
Distributors	Billing Distributors	5726-D4A	2585		134							.GH30-0093	System/34	11X
Distributors	Billing Distributors	5726-D41	3885		157	2910		118				.GH30-0185	System/34	11X
Distributors	Billing Food Distributors	5726-D65	2640		137							.GH30-0156	System/34	11X
Distributors	Distributors Mgt Acctg - Billing	5727-D41	4070		233	3050						.GH30-0690	CASS	15B
Distributors	Distributors Mgt Acctg - Accts Rec	5727-D42	2805		163	2105						.GH30-0690	CASS	15B
Distributors	Distributors Mgt Acctg - Inv Ctr1	5727-D43	3685		214	2765						.GH30-0690	CASS	15B
Distributors	Distributors Mgt Acctg - Sales Anal	5727-D44	3685		214	2765						.GH30-0696	CASS	15B

Keyword	Program Title	Number	OTC	ILC	MLC	DSO	DSI	DSM	MLP	MML	Mo	MoreInfo	Environment	TPLS
Distributors	Distributors Mgt Accts - Purchasing	5727-D45	7810		447	5855						.GH30-0696	CASS	15B
Distributors	Distributors Mgt Accts - Inv Mgmt	5727-D46	6435		371	4825						.GH30-0690	CASS+5727-D43	15B
Distributors	Distributors Mgt Accts - Gen Ledger	5727-D47	2805		163	2105						.GH30-0696	CASS	15B
Distributors	Distributors Mgt Accts - Accts Pay	5727-D48	2805		163	2105						.GH30-0696	CASS	15B
Distributors	Distributors Mgt Accts - Payroll	5727-D49	3795		220	2845						.GH30-0696	CASS	15B
Distributors	General Ledger Distributors	5726-D6A	1260		59							.GH30-0219	System/34	11C
Distributors	Inventory Control Distributors	5726-D4C	2365		122							.GH30-0093	System/34	11X
Distributors	Inventory Control Distributors	5726-D43	3515		143	2640		108				.GH30-0185	System/34	11X
Distributors	Inventory Control Food Distributors	5726-D67	2365		122							.GH30-0156	System/34	11X
Distributors	Payroll Distributors	5726-D6C	1575		77							.GH30-0219	System/34	11C
Distributors	Payroll Distributors Mfg MAPICS	5726-M42	3620		146	2715		109				.GH30-0221	System/34	11X
Distributors	Purchasing Distributors	5726-D46	7455		303	5590		226				.GH30-0185	System/34	11D
Distributors	Sales Analysis Distributors	5726-D4D	2150		111							.GH30-0093	System/34	11X
Distributors	Sales Analysis Distributors	5726-D44	3350		125	2515		88				.GH30-0185	System/34	11X
Distributors	Sales Analysis Food Distributors	5726-D68	2150		95							.GH30-0156	System/34	11X
+DITTO	Data Interfile Transfer, Testing & Oprns	5665-370			270			230				.SH19-6112	MVS,XA	15M
DITTO	Data Interfile Transfer, Testing, Oprns	5746-UT3	968		44	748		34	5	8		.GH19-6072	DOS/VSE	15K
DITTO	DITTO	5668-917		231	94			210	85	7	11	.GH19-6103	VSE,VM	15K
DITTO	DITTO	5798-ARD	858									.GB21-0857	DS,MVS/XA	11H
-DITTO	DITTO	5798-ARN	852		81							.GB21-2190	DOS	11H
DITTO	DITTO Enhancements	5798-ARM/01	150									.GB21-2190	9500	11H
DITTO	DITTO Enhancements	5798-CAF/01	150									.GB21-2190	9502	11H
DITTO	DITTO Extensions	5798-CDA	1320									.GB21-1549	DS	11H
DITTO	SSX/VSE DITTO	5799-BNF/08	175		25	157		22				4884,4885,4886,4887	DS	25K
DITTO	VSE/SP DITTO for VSE and VM	5666-316/08	1360		77	1205		70						15
DITTO	VSE/SP DITTO for VSE/VM Feature	5799-BNB/09	1175		71	1055		64					4932,4969	15K
DITTO	VSE/SP DITTO for VSE and VM Feature	5799-BNC/09	1340		82	1205							4943,4993	15K
DL/I	Chained File DL/I Bridge	5748-XX3	14740		576							.GH12-5116	DOS/VS,OS/VS	15B
DL/I	Data Language / I	5746-XX1			459			344	149	238		.GH20-1246	VSE,SSX	25K
DL/I	DL/I	5666-275			429			322	126	201		.GH20-1246	SSX/VSE	25K
-DL/I	DL/I - CICS/VS Test Prog. State Indust.	5796-ARN	1020		93							12.0320-6053	DOS/VS	15H
DL/I	DL/I to IMS Data Dictionary Migration	5798-DLN	2200									.0320-9196	VSE and IMS	15H
DL/I	DL/I Advanced Programming Course II	5798-DJE	2860									.GB21-2937	IIS, IIPS	1EX
DL/I	DL/I Basic Programming Course II	5798-DGR	2860									.GB21-2872	IIS, IIPS	1EX
DL/I	DL/I Data Base Dump	5796-AJE	440									.0320-8156	DOS/VS DL/I	15H
-DL/I	DL/I Fast Scan Utility for DOS/VS	5798-CYJ	2570									.GB21-2580	DOS/VS DL/I	11H
-DL/I	DL/I Map	5796-PCW	902		82							12.0320-8159	DL/I DOS/VS	05H
DL/I	DL/I Space Management Utilities	5796-PKF	2290		111							.0320-6072	DOS/VS DL/I	15E
-DL/I	HCS DL/I Medical Record Abstract System	5796-AYL			747							24.0320-6341	VSE+5798-CCA,CCB	15H
DL/I ENTRY	Data Language / I Entry	5746-XX7	10290		468	7740		320	22	35		.GH12-5115	DOS/VS	25X
DLF	Document Library Facility	5748-XXE		480	160							.GH20-9163	DOS/VSE,MVS,VM	15E
Dmarc	Library Compass Marc to Dortmund Dmarc	5796-PPZ	577									.0320-9132	DOS,VSL,MVS	15X
DMAS	Accounts Receivable Distributors	5726-D4B	1650		86							.GH30-0093	System/34	11X
DMAS	Billing Distributors	5726-D4A	2585		134							.GH30-0093	System/34	11X
DMAS	Detail Sales Analysis	5798-RPG	632									.GB30-2225	System/36	15X
DMAS	Distributors Mgt Accts - Billing	5727-D41	4070		233	3050						.GH30-0690	CASS	15B
DMAS	Distributors Mgt Accts - Accts Rec	5727-D42	2805		163	2105						.GH30-0690	CASS	15B
DMAS	Distributors Mgt Accts - Inv Ctrl	5727-D43	3685		214	2765						.GH30-0690	CASS	15B
DMAS	Distributors Mgt Accts - Sales Anal	5727-D44	3685		214	2765						.GH30-0696	CASS	15B
DMAS	Distributors Mgt Accts - Purchasing	5727-D45	7810		447	5855						.GH30-0696	CASS	15B

Keywords - Alphabetic Sequence

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Codes Explained in Appendix B

Keyword	Program Title	Number	OTC	ILC	MLC	DSO	DSI	DSM	MLP	MML	Mo	MoreInfo	Environment	TPLS
DMAS	Distributors Mgt Acctg - Inv Mgmt	5727-D46	6435		371	4825						.GH30-0690.CASS+5727-D43	15B	
DMAS	Distributors Mgt Acctg - Gen Ledger	5727-D47	2805		163	2105						.GH30-0696.CASS	15B	
DMAS	Distributors Mgt Acctg - Accts Pay	5727-D48	2805		163	2105						.GH30-0696.CASS	15B	
DMAS	Distributors Mgt Acctg - Payroll	5727-D49	3795		220	2845						.GH30-0696.CASS	15B	
DMAS	DMAS II Acct Rec Enhance - Food Distrib	5798-HXZ			138						12	.GH30-1360 System/34	15H	
DMAS	DMAS II Billing Enhance - Food Distrib	5798-HXY			207						12	.GH30-1360 System/34	15H	
DMAS	DMAS II File / Record Definitions	5798-RPY	330									.GH30-2134 Retrieval/36	15X	
-DMAS	DMAS II File / Record Definitions	5798-RQQ	330									.GH30-2132 Retrieval/34	15X	
DMAS	Inventory Control Distributors	5726-D4C	2365		122							.GH30-0093 System/34	11X	
DMAS	Payroll 401K Tax-Deferred Savings Plan	5798-RHK	300									.GH30-2493 S/36 DMAS Payroll	15H	
DMAS	Physical Inventory Enhancement	5798-RPE	1395									.GH30-2230 System/36	15X	
DMAS	Sales Analysis Distributors	5726-D4D	2150		111							.GH30-0093 System/34	11X	
DMAS II	Accounts Receivable Distributors	5726-D4E	2675		108	2010		79				.GH30-0185 System/34	11X	
DMAS II	Billing Distributors	5726-D4I	3885		157	2910		118				.GH30-0185 System/34	11X	
DMAS II	Inventory Control Distributors	5726-D4J	3515		145	2640		108				.GH30-0185 System/34	11X	
DMAS II	Over-the-Counter Inv & Accts Rec Inquiry	5726-DM5	2255									.GH30-2501 System/34	15C	
-DMAS II	Physical Inventory Enhancement	5798-RBN	1110		101						12	.GH30-1506 System/34	15H	
DMAS II	Purchasing Distributors	5726-D4G	7455		303	5590		226				.GH30-0185 System/34	11D	
DMAS II	Sales Analysis Distributors	5726-D44	3350		125	2515		88				.GH30-0185 System/34	11X	
-DMAS II	Sales Analysis Enhancements	5796-RJL	550									.GH30-1810 System/34	15X	
DMNL	Direct Multinetwork Link to S.W.I.F.T.	5666-269		3500	820							.GH12-5142 CICS/DOS/VS+5668-926	15K	
DMNL	Direct Multinetwork Link to S.W.I.F.T.	5668-964		6525	1595							.GH12-5142 IMS/VS+5668-926	15K	
DMNL	Direct Multinetwork Link to S.W.I.F.T.	5668-965		4280	1280							.GH12-5142 CICS/OS/VS+5668-926	15K	
DMNL	Direct S.W.I.F.T. Terminal 500 Link	5668-857	24200		1100							.GH12-5149 DMH+57500+3705/25	15X	
-DMS	Development Management System Debug-II	5798-DHB	1520									.GB21-3091 CICS/VS	15X	
DMS	DMS Model-Based Application Generator	5798-DMA	2750									.GB21-3089 CICS/VS	15X	
DMS	DPFX / DMS Execution Facility	5660-265	493	23	420		16	15	23			.GH20-2438 DPFX/DMS	15K	
DMS/CICS	Development Management System / CICS	5740-XC5	8380		533	6285		54	88			.GH20-0125 CICS/VS/05	15K	
DMS/CICS	Development Management System / CICS	5746-XC4	4730		330	3545		164	54	88		.GH20-2195 CICS/VS/D05	15K	
DMS/CICS	DMS/CICS Application Generation Feature	5740-XC5/01	11410		533	8560		347	54	88		.GH20-2195 4558,4560,6513,6577	15K	
DMS/CICS	DMS/CICS Application Generation Feature	5746-XC4/01	7040		330	5280		246	51	82		.GH20-2195 6082,4538,6541,6501	15K	
-DMS/CICS/VS	DMS/CICS/VS Online Debugging Aid	5798-DEC	660									.GB21-2727 OS/VS.D05/VSE	15H	
DMS/CMS	Display Management System / CMS	5748-XXB		40				27	9	14		.GC24-5197 VM/SP	15K	
DMS/CMS	DMS/CMS XT/370	5748-XXB/01	144		4							3005,3009	05C	
DMS/DPXC	DPXC Development Management System	5748-XC4	25730		939	19290		703	94	151		.GH20-2423 T50,CICS,CMS	15K	
DMS/DPFX	DPFX Development Management System Defn	5760-XC2	3175		185	3025		138	67	108		.GH20-2154 DPFX	15K	
DMS/3790	Display Management System / 3790	5748-XC2	7300		415							.GH20-2002 D05/VS,05/VS	15C	
DMS/3790	DMS/3790 Interface Monitor	5748-XC2/01	4840		259							.GH20-2002 4538	15C	
DMS/38	Accounts Payable Distribution	5714-D48	2675		93	2010		70				.GH30-0710 System/38	11D	
DMS/38	Accounts Receivable Distribution	5714-D52	4355		151	3265		112				.GH30-0130 System/38	11X	
DMS/38	Customer Service Billing Distribution	5714-D41	4985		173	3735		129				.GH30-0130 System/38	11X	
DMS/38	General Ledger Distribution / Media	5714-D47	2675		93	2010		70				.GH30-0710 System/38	11D	
DMS/38	Inv Mgmt Prod Rep & Ord Val Eval Improve	5714-D46	9975		349	7475		261				.GH30-0080 System/38	11D	
DMS/38	Inventory Control Distribution	5714-D63	4670		163	3505		123				.GH30-0130 System/38	11X	
DMS/38	Purchasing Distribution	5714-D69	3610		119	2560		89				.GH30-0710 System/38	11D	
DMS/38	Purchasing Distribution	5714-D65	9605		535	7205		250				.GH30-0595 System/38	11X	
DMS/38	Sales Analysis Distribution	5714-D44	4040		139	3030		105				.GH30-0130 System/38	11D	
DORIS	Dortmund Leuven Library System Rel 4	5787-DAA	22330		1015							24.G320-6662 D05/VS,CICS/VS	25X	
DORIS	Dortmund Leuven Library System Rel 4	5787-DAB	17290		786							24.G320-6662 D05/VSE,CICS/VS	25X	
DORIS	Library Congress Marc to Dortmund Dmarc	5796-PPZ	577									.G320-9132 D05,V51,MVS	15X	

Keyword	Program Title	Number	OTC	ILC	MLC	DSO	DSI	DSH	MLP	MML	Mo	MoreInfo	Environment	TPLS
DOBIS	Periodicals Control System Rel 4	5785-DDN	15795	2500	718							24.G320-6662	5787-DAA+FAJ+FAH	25H
DOBIS	Periodicals Control System Rel 4	5785-DED	15795	2500	718							24.G320-6662	5787-DAB+FAK+FAL	25H
DOBIS Rel1	Dortmund Leuven Library System Batch	5787-FAL	8820	401								24.G320-6662	5787-DAB	25X
DOBIS Rel2	Dortmund Leuven Library System Batch	5787-FAH	13900	632								24.G320-6662	5787-DAA	25X
DOBIS Rel4	Dortmund Leuven Library System Online	5787-FAJ	13900	632								24.G320-6662	5787-DAA -FAH	25X
DOBIS Rel4	Dortmund Leuven Library System Online	5787-FAK	13900	632								24.G320-6662	5787-DAA -FAH	25X
Docket	Attorney Practice - Statutory Dates	5793-ABF	3850									.GB30-2160	5793-ABL+ABZ	05X
Docket	Statutory Dates (Docket) Series 800	5793-ACP	1650									.GB30-2415	S/36+5793ABZ+ACR	05H
Doctor's	Doctor's Office Demo & Tutorial	6360-486	nc									G520-3917	IBM Internal	N05Z
+Doctors	Doctors Office Manager II	6467-035	2749										PC,XT,AT+10MB	05Z
Document	Composed Document Printing Facility	4250 5668-997	4800		342				49	78		GC33-6133	SCRIPT and/or GDDM	15K
Document	Document Composition Facility DCF	5748-XX9		972	324								VM,VSE,MS	15E
Document	Document Composition Facility XT/370	5748-XX9/02	864	19									3003,3008	05C
Document	Document Composition Training	5798-PNE	1520									.G320-6331	IIS,IIPS	1EH
Document	Document Control Section Edit 3694	5798-REL			100							12.GB30-1645	System/34+5748-F53	25X
Document	Document Distribution to Remote 5520	5798-RPJ	1540									.GB30-2213	System/36+5520	15X
Document	Document Interchange - Host to Displaywr	5799-BKE		1165	265							GC09-1037	DCF,PROFS+5608-SR9	25E
Document	Document Library Facility	5748-XXE		480	160							GH20-9163	D0S/VSE,MS,VM	15E
Document	Document Library Facility Dialog	5798-DQA	1980									.G320-0360	MVS+DLF+DCF+ISPF	15X
+Document	Document Management/VSE	5666-339	2850	158	2565	142	28	45				GC33-6251	VSE	25K
Document	Document Retrieval Assistant	6024-306	149									.0520-1107	PC, PCjr,XT,AT,PPC	05Z
Document	DPX Distb Document Formatting Facility	5785-RAA	1980									.G320-0355	8100	15X
-Document	Electronic Document Distribution	5608-SR8	565									0544-2139	Displaywriter	05E
Document	Host to Displaywriter Document Interchg	5799-BXF	3315									GC09-1037	5796-PMP+5608-SR9	25D
Document	Host to Displaywriter Document Interchg	5799-BXG	6095									GC09-1037	5796-PRH+5608-SR9	25D
-Document	Host Document View Facility	5796-BCL	5170	635	207							.G320-6640	MVS,DISOSS,IMS,CICS	15X
-Document	Letterwriter for Document Composition	5798-DMT	550									.GB21-3072	5748-XX9	15X
Document	MICR Document Fine Sort	5798-BCN	2210		201							12.GB21-1327	D0S/V5	11H
Document	System/36 to System/36 Document Transfer	5799-BHE	800										OMS and TMS	15X
Document	3101 Emulation and Document Transfer	5798-RRF	330									.GB30-2303	Displaywriter	15X
-Document	3277 Emulation / Document Transfer	5799-BKG	550									GA09-1679	5799-BKE	05E
Document	3890 Document Processor Support	5746-DC1	2180		122							GC31-0001	D0S/VSE	15B
-Documentation	Installation Management Documentation	5798-CZH	1085		99							12.GB21-2481	05/V5	11H
+Documentation	Modicon 484 Ladder Logic Documentation	3793-AHE	1250										Industrial PC	05Y
Documentation	Object Management Facility	5798-RLZ	880									.GB30-2285	System/38	13Z
-Documentation	Print Image Library Documentation Aid	5798-DNE	660									.GB21-3097	05/V5	15X
Documentation	Problem Statement Language and Analyzer	5796-BDX	49500									.G320-2719	VM,MVS	15H
Documentation	Procedure Analysis & Documentation	5785-DFC	511									.G320-9191	System/34	15X
Documentation	Procedure Documentation & Mod Aid	5798-RPN	973									.GB30-2211	System/36	15X
Documentation	Source Archive	5798-RFD	378									.GB30-1630	System/38	15X
-Documentor	PC/3600 Trans Documentor & Xref	5796-ATR	150		150							12.G320-6067	D0S/V5,0S/V5,CICS/V5	15H
-Documents	5520 Documents - Host Store & Forward	5798-RHA	12100	1100								12.GB30-1690	TCAM, VTAM	15X
Dog	Dictionary Dog	6024-067	49									.0520-1107	PC,XT,PCjr,PPC,AT	05Z
Dollars	Dollars and \$ense tm	6871-482	180									.GB30-2037	PC,PCjr	05Y
Domain	Cross Domain Network Data Transfer	5798-DAE	1320									.GB21-2498	Replaced by 5668-932	15H
Donor	General Donor Fund-Raising	5798-RNH	550									.GB30-2196	Displaywriter	15X
Dortmund	Dortmund Leuven Library System Rel 4	5787-DAA	22330		1015							24.G320-6662	05/V5,CICS/V5	25X
Dortmund	Dortmund Leuven Library System Rel 4	5787-DAB	17290		786							24.G320-6662	D0S/VSE,CICS/V5	25X
Dortmund	Dortmund Leuven Library System Batch	5787-FAH	13900		632							24.G320-6662	5787-DAA	25X
Dortmund	Dortmund Leuven Library System Online	5787-FAJ	13900		632							24.G320-6662	5787-DAA -FAH	25X



Keyword	Program Title	Number	QTC	ILC	MLC	DSO	DSI	DSM	MLP	MML	Mo	MoreInfo	Environment	TPLS	
Dortmund	Dortmund Leuven Library System Online	5787-FAK	13900		632							24.G320-6662	5787-DAA -FAH	25X	
Dortmund	Dortmund Leuven Library System Batch	5787-FAL	8820		401							24.G320-6662	5787-DAB	25X	
Dortmund	Library Congress Marc to Dortmund Dmarc	5796-PPZ	577									.G320-9132	DOS.VS1.MVS	15X	
+DOS 3.2	Disk Operating System 3.2 5.25"	6280-057	95										PC,XT,PPC,AT,PCjr	05Z	
+DOS 3.2	Disk Operating System 3.2 3.5"	6280-058	95										PC,XT,PPC,AT,PCjr	05Z	
DOS/VSE	See yellow page 4-120.	0000-016	nc											N05C	
D0SCHECK	CPCS Sort Table Generator	5798-DNG	13200		600							.GB21-3104	MVS.VS1	15H	
D0SCHECK	D0SCHECK Installed User Education Guide	5796-002	1700									G320-6086	5746-F12	05H	
D0SCHECK	Electronic Payment Systems	5746-F12			1515							GH20-1939	DOS/VS	21B	
D0SF	Distributed Office Support Facility Rel6	5761-XR1	12300			805	10455		683	115	184	GC27-0546	DPCX	15X	
D0SF	DPCX D0SF Dialog Manager	5785-EC2	907									.GB21-3080	DPCX+D0SF	15X	
DoublePrecision	FORTRAM Compiler Version 2	6024-127	385									G520-3917	D0S24	05Z	
+Down	Hopping Down the Math Trail	6276-633	20										PC,XT,PCjr,AT+color	05R	
Downstream	Downstream Load Utility	5668-006	3200	1015	124	2400	775	93	7	11		GC33-6125	VSE,OS/VS,SSX+VTAM	15K	
DPA	Data Processing Accounting for IMS/VS	5740-DC2	10670		485							GH19-6028	OS/VS	11C	
DPCF	DPPX Distributed Connection Facility	5798-DKX	990									.GB21-3025	DPPX	15X	
DPCX Rel 6	Distributed Processing Control Executive	5761-DS1	6900		472	5865		402	111	177		GC22-9075	8100	15K	
DPCX/D0SF	DPCX/D0SF Host Prep	5735-XR3	250					187	81	130		GC27-0572	VTAM/E,TCAM	15K	
DPCX/DPPX	DPCX/DPPX Host Command Facility Ver 2	5668-985	200					150	41	66		GC27-0453	VTAM/E+NCCF	15K	
DPPX/Base	Distributed Processing Program Executive	5760-010	8400		335	7140		285	170	272		GC27-0400	8100	15K	
DPPX/Base	DPPX/Base Command Facility Extensions	5760-010/01	680		25	578		21	11	17		GC27-0400	6006.6018.6019.6007	15K	
DPPX/Performance	DPPX/Performance Tool Version 2	5660-286	3850		280							.GC34-2145	DPPX/SP	15E	
DPPX/PT	DPPX/Performance Tool Version 2	5660-286	3850		280							.GC34-2145	DPPX/SP	15E	
DPPX/SP	DPPX/SP to 3270-PC File Transfer	5799-BRP	nc										DPPX and 3270-PC	N05E	
DPPX/SP R3	Distributed Processing Programming Exec.	5660-281	19600		869	16660		738	312	499		GC23-0600	3100	25K	
DPPX/3644	DPPX/3644 Parameter Table Generator	5760-ED1	312		27	240		21	7	11		GC24-5179	DPPX	15X	
+Draftec	Allen-Bradley PLC-2 Draftec	5793-ACX/03	950										Industrial PC	05Y	
+Draftec	Allen-Bradley PLC-3 Draftec	5793-AGC/02	950										Industrial PC	05Y	
+Draftec	Modicon Draftec	5793-AHF/02	950										Industrial PC	05Y	
+Draftec	Modicon D84 Draftec	5793-AHE/01	950										Industrial PC	05Y	
Drafting	CATIA (R) Drafting	5668-827			535							G320-6650	Replaced by 5668-837	115E	
Drafting	CATIA (R) Drafting 2.2	5668-837			535								CATIA Base	115E	
Drafting	CATIA (R) Drafting	5668-837/01			3210	1070		1070	750				4727,2207	115E	
Drafting	7361 Fastdraft System	5719-GP1			1070	160						36	GC34-0513	7361+3101+3251	25X
+Draw	GEM tm Draw	6404-013	249										GB30-2037	PC,XT,AT,KB,mouse	05Y
+Draw	Picture Draw	6276-628	25										PC,XT,jr,AT+color	05R	
+Draw	Picture Draw	6276-635	25										PC,XT,PCjr,AT+color	05R	
+DRAWING	CADAM (R) DRAWING Viewing Program - Host	5796-TBP	1250									G320-0898	VM,MVS+5796-TBQ	15H	
+DRAWING	CADAM (R) DRAWING Viewing on PC	5796-TBQ	750									G320-0898	5796-TBP+EGA+8087	05Y	
Drawing	Drawing Assistant	6024-089	169									.G520-1107	PC, PCjr,XT,AT+color	05Z	
Drawing	Fastdraft Drawing Mgt to MAPICS Bridge	5796-RRN	2350										System/34+7361	15X	
-Drawing	Softcopy - a CADAM (R) Drawing Viewer	5796-PNP	7630		347							.G320-6388	MVS,VM+32776A	15E	
DRG reporting	Patient Care System - Patient Accounting	5668-913	165000		7500							.GH20-6351	5796-BBF+BCE+BCF	15E	
+Drills	Algebra Drills	6276-598	20										PC,XT,PCjr,AT,3270PC	05R	
Drills	Morse Code Drills	6276-525	15										PC,XT,jr,AT,PPC	05R	
Driven	Event Driven Executive Communic Ver 1.2	5719-CF1	2200		67							GL23-0070	Series/1	15X	
Driven	Event Driven Executive Version 5.2	5719-XJ5	750										GC34-0099	Series/1-PC (4950)	15M
-Driven	Event Driven Executive	5796-PGH			825							12.G320-5677	OS/MVT,MVS	15H	
+Driver	THE FIX Device Driver for IBM DACA	5793-AQQ/05	795										GB30-2027	5793-AGW	05Y
+Driver	THE FIX Device Driver for ACRO-900 tm	5793-AQQ/06	795										GB30-2027	5793-AGW	05Y

Keyword	Program Title	Number	OTC	ILC	MLC	DSO	DSI	DSH	MLP	MHL	Mo	MoreInfo	Environment	TPLS
+Driver	THE FIX Device Driver for PLC-2 tm	5793-AGQ/07	795										GB30-2027 5793-AGW	05Y
+Driver	THE FIX Device Driver for DT 2808	5793-AGQ/08	795										GB30-2027 5793-AGW	05Y
+Driver	THE FIX Device Driver for MODBUS tm	5793-AGQ/09	1095										GB30-2027 5793-AGW	05Y
+Driver	THE FIX Device Driver for OPTOMUX tm	5793-AGQ/10	795										GB30-2027 5793-AGW	05Y
Driver	3812 Pageprinter Driver	6466-981	49										G320-0819 PC,XT,AT+256k	05E
Driver	5218 Printer Driver	6293-576	175										0570-2063 PC,XT,3270-PC,PPC	05Z
Drivers	MVS CBIPO Drivers	5665-343	178										GC23-0127 5751-CS1,2	05C
Drivers	Virtual Device Interface Drivers	6168-460	nc										S126-0094 Toolkit (6024196)	N05Z
Drug	Wholesale Drug	5798-RRK	550										GB30-2336 Reportpack	15X
Drywall	Drywall Contractor Module	5710-RTQ	2200										GB30-2450 5710-RTN	15H
Drywall	Interactive Cost Estimating - Base	5710-RTN	12650										B030-2450 System/36	15H
Drywall	Interactive Cost Estimating - Base	5710-RTR	12650										GB30-2450 System/36	15H
DS/VSE	Decision Support / VSE 1.1	5666-311	5075			182	2770		164	19	31		GC33-6212 S5X,VSE	25K
-DSC	Overstrike / Underscore - 3270 DSC	5799-BQW	87										0544-2279 DM+5608-SR6	05E
DSE	CAMM DSE Analytical Mod, Std Graphics	5793-AET/01	500										GB30-2037 6505	05Y
DSE	CAMM DSE Analytical Mod, Enhanced Graphi	5793-AET/02	950										GB30-2037 6506	05Y
DSL	Direct S.M.I.F.T. Link	5740-F15	42130					1915					.GH12-5133 CICS/OS/V5	15X
DSL	Direct S.M.I.F.T. Link	5740-F16	49940					2270					.GH12-5133 IMS/V5	15X
DSL	Direct S.M.I.F.T. Link	5746-F14	34430					1565					.GH12-5133 CICS/DOS/V5, D05/V5E	15B
DSL/V5	Dynamic Simulation Language/V5	5798-PXJ	10000					454					G320-0357 VM,MVS,XT/370	15H
DSL	Downstream Load Utility	5668-006	3200	1015	124	2400	775	93	7	11			GC33-6125 VSE,OS/V5,SSX+VTAM	15K
DSNL	Direct S.M.I.F.T. Network Link	5668-926		2000	299								.GH12-5142 CICS/V5,IMS/V5+BTAM	15K
DSX	Distributed Systems Executive 3.1	5668-915		2700	1035		2025	776	88	140			.GC23-0108 MVS+VTAM/TCAM	15K
DSX	Distributed Systems Executive Ver 2	5668-986		1220	468			915	350	44	69		.GH19-6229 VTAM/E,TCAM+8100	15K
+DT	THE FIX Device Driver for DT 2808	5793-AGQ/08	795										GB30-2027 5793-AGW	05Y
Dues	Dues Assessment - Trade Assn	5796-ZJA	3850										GB30-2352 5796-ZHZ	15X
Dues	Membership Dues Assessment	5796-ZJF	3850										GB30-2401 5796-ZJE	05X
-Dump	CICS/VS Dump Reading Program	5798-CJX	1210			110							.GB21-1874 OS/V5	15H
Dump	CICS/VS Formatted Dump Online II	5798-DJX	2640										.GB21-2963 CICS/V5	15X
Dump	Direct Access Storage Dump Restore	5740-UT1	2800			167							GH20-9116 OS/VS1,OS/VS2,OS/MFT	15C
Dump	DL/I Data Base Dump	5796-AJE	440										.G320-8156 D05/V5 DL/1	15H
-Dump	Universal Dump, Alter, Copy, & Select	5796-BAF				50							12.G320-6405 OS/V5	15H
DW Editx	Distributed Office Support Facility Rel6	5761-XR1	12300			805	10455		683	115	184		GC27-0546 DPXC	15K
DW/36	DW/36 Danish Dictionary	5727-HP7/06	90										0580-0570 4787	05H
DW/36	DW/36 English Dictionaries	5727-HP7/01	90										0580-0570 4787	05H
DW/36	DW/36 French I Dictionary	5727-HP7/02	90										0580-0570 4787	05H
DW/36	DW/36 French II Dictionary (Canada)	5727-HP7/03	90										0580-0570 4787	05H
DW/36	DW/36 German Dictionary	5727-HP7/07	90										0580-0570 4787	05H
DW/36	DW/36 Italian Dictionary	5727-HP7/05	90										0580-0570 4787	05H
DW/36	DW/36 Language Dictionaries	5727-HP7	nc										0580-0570 System/36 PC	05SH
DW/36	DW/36 Spanish Dictionary	5727-HP7/04	90										0580-0570 4787	05H
-DW/36	DW/36 Upgrade from TMS/36	5727-HP1/01	550					484					4769,9682	15A
DXT	Data Extract	5668-973		3840	640		2880	480	37	59			GC26-4070 MVS,MVS/XA+DFP	2LK
+DXT	Data Extract 2.1	5668-788			300			225					GC26-4241 VM,MVS,XA	25H
Dynamic	Dynamic Simulation Language/V5	5798-PXJ	10000			454							G320-0357 VM,MVS,XT/370	15H
Dynamic	Dynamic Simulation Language XT/370	5798-PXJ/01	1000			45							3044,3045	05C
+Dynamics	CAEDS System Dynamics Analysis	5713-AAF	varies		1050								Base	V1UE
E/S	E/S (3) PF Release 2	5664-283	2000			107	1800						0520-0118 E/S (3)	25K
-E/S3-Entry	Engineering/Scientific Support Sys-Entry	5750-ESE	varies										0520-0118 RePlaced by VMES3	V0ST
Earned	Advance Earned Income Credit Interfaces	5798-NYQ	575										GB30-1395 System/34, System/32	15H

Keywords - Alphabetic Sequence

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Codes Explained in Appendix B

Keyword	Program Title	Number	QTC	ILC	MLC	DSO	DSI	DSH	MLP	MHL	Mo	MoreInfo	Environment	TPLS
Earth	Earth Resources Management II	5799-ARX	63580			2890							24 GB11-5007 VSI	15C
Earth	Earthquakes (Earth Science Series)	6024-322	55										GB520-1107 PC,PCjr,XT,AT,PPC	05Z
Earth	Ground Water - Earth Science Series	6024-122	55										GB520-1107 PC,XT,PCjr,PPC+DOS2+	05Z
Earth	Hydrologic Cycle - Earth Science Series	6024-121	55										GB520-1107 PC,XT,PCjr,PPC+DOS2+	05Z
Earth	Surface Water - Earth Science Series	6024-123	55										GB520-1107 PC,XT,PCjr,PPC+DOS2+	05Z
Earth	Volcanos (Earth Science Series)	6024-323	55										GB520-1107 PC,PCjr,XT,AT,PPC	05Z
Earth Science	Moisture in the Atmosphere	6024-124	55										GB520-1107 PC,XT,PCjr,PPC+DOS2+	05Z
Earthquakes	Earthquakes (Earth Science Series)	6024-322	55										GB520-1107 PC,PCjr,XT,AT,PPC	05Z
Easy	OFFICE/38 Applications Made Easy	5714-XE1	4400										.GB30-1952 System/38	15X
+EASYLABEL	EASYLABEL tm	5793-AGP	2500										GB30-2027 Industrial PC	05Y
+EASYLABEL	EASYLABEL tm (Manual)	5793-AGP/01	125										GB30-2027 Industrial PC	05Y
-Econometric	APL Econometric Planning Language	5796-PDM	2705		246								12.G320-5535 APLSV	11H
+Ecosystems	Environment: Habitats & Ecosystems	6024-412	65										GB520-1107 PC,PCjr,XT,AT+color	05Z
+Ecosystems	Environment: Habitats & Ecosystems	6024-442	295										GB520-1107 PC,PCjr,XT,AT+color	05Z
ECRI	AHA Medical Device Database	7798-MDD	nc										Information Network	N05C
EDD	Document Distribution to Remote 5520	5798-RPJ	1540										.GB30-2213 System/36+5520	15X
-EDD	Electronic Document Distribution	5608-SR8	565										GB544-2139 Displaywriter	05E
Edit	Data Base Edit	5798-DLL	6050										.G320-9195 SQL/DS+VM	15H
Edit	Data Base Edit	5798-DLQ	7700		350								.G320-9195 MVS+DB2	15H
-Edit	Data Capture / Edit for Bar Code	5798-RHP	1815		165								12.GB30-1708 Series/1	15X
-Edit	Data Collection Edit & Transmit	5798-RXC	1820		158								12.GB30-1552 Series/1	15H
Edit	Document Control Section Edit 3694	5798-RFL	1000		100								12.GB30-1645 System/34+5748-F53	15X
-Edit	Text Entry & Edit Facility	5798-RAR	3330		303								12.GB30-1470 Series/1	15X
Edit	3694 Debug Test Aid for User Edit Progs	5798-DNJ	1100										.GB21-3119 VSE,05/V5	15X
Editing	CPCS User Editing	5798-DMG	2915										.GB21-3046 OS/V5	15X
Editing	Environmental Recording Editing Printing	5654-260	nc										GC28-1378 VM,VM-HPD,VM/XA	N055
Editing	Environmental Recording Editing Printing	5656-260	nc										GC28-1378 VSE	N055
Editing	Environmental Recording Editing Printing	5658-260	nc										GC28-1378 VSI,MVS,XA	N055
-Editing	EDX File Creation/Maintenance Utilities	5798-RBL	550		50								12.GB30-1496 Series/1	15X
Editing	Interactive Composition and Editing Ver2	5798-DTD	25000		1250								.G320-9798 VM4250 or 3800 III	25H
+Editing	MICR User Editing - CHX/3694, CHX/V5	5798-DRE	7500										.G320-9250 OS/V5,V5E	25H
Editing	3890 On-Us Editing	5798-DBL	2540										12.GB21-2559 DOS/VSE	15H
-Editing	6670 Mod II Font Editing System	5785-FAH	880										.GB21-3068 OS/V5,VM	15X
+Edition	Business Adviser - Order Entry Edition	6466-994	995										LAN or TokenRing	105G
+Edition	Electric Desk tm Academic Edition	6205-272	64										.GB30-2037 PC,XT,AT, jr	05Y
+Edition	Electric Desk tm Academic Edition	6205-273	64										.GB30-2037 PCC 3.5" drive	05Y
+Edition	Electric Desk tm Academic Edition	6404-014	13										GB30-2037 User's Guide	05Y
+Edition	Electric Desk tm Academic Edition	6476-223	86										.GB30-2037 PCjr cartridge	05Y
+Edition	Personal Decision Series - Data Edition	6466-9836	275										.GB30-9012.All pc PCjr+DOS2 up	05G
+Edition	Personal Decision Series - Data Edition	6466-9835	275										.GB30-9012 3.5" drive	05G
Editn	Personal Decision Series - Graphs Editn	6410-938	225										.Data Edition+color	05G
Editn	Personal Decision Series - Plans+ Editn	6410-972	335										.Data Edition	05G
Editor	Color Graphics Editor and Picture Plot	4421-760	385										GA33-3141 3270-PC/G or GX+GEP	05H
Editor	Extended Editor and Full Screen Manager	5796-PLY	1685		85								.G320-6168 VM/AT with VM, TSO	15E
Editor	Interactive Computing & Control Facility	5666-302	5595		214	5035		192	12	19			.GX33-9011 VSE/AF+CICS	15K
Editor	Interactive System Productivity Facility	5644-282			575	189		431	141	9	14		.GC34-2181.VM	15K
Editor	Interactive System Productivity Facility	5668-960			960	96		720	70	15	24		.GC34-2078 CICS/VSE+ICCF	15K
+Editor	Introductory Editor	6276-589	20										PC,XT,AT,PCjr,3270PC	05R
-Editor	ISPF/PC Development Facility	6410-980	130										.G520-3917.EZ-VU Runtime	05X
-Editor	ISPF/PC Runtime Facility	6316-969	55										.GC34-4801.PC,PCjr,3270-PC,AT	05X

Keywords - Alphabetic Sequence

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Codes Explained in Appendix B

Keyword	Program Title	Number	OTC	ILC	MLC	DSQ	DSI	DSM	MLP	MHL	Mo	MoreInfo	Environment	TPLS
Editor	ISPF/PDF PC Editor	6466-974	150										EZ-VU Runtime	05G
+Editor	Lite Editor	6276-637	25										PC,XT,PCjr,AT,3270PC	05R
Editor	Operating System Extensions on 8" Disk	6089-579	155									GC22-9199	C59000	05W
Editor	Operating System Extensions on 5.25"Disk	6092-497	155									GC22-9199	C59000	05W
+Editor	Personal Editor 1 9002 5.25" diskette	5669-076	125										C505 Ext 1.13	05X
+Editor	Personal Editor 1 9001 5.25" diskette	5669-076/01	125										4508	05X
+Editor	Personal Editor 1 9001 5.25" diskette	5669-076/02	125										4508 w/o printer	05X
+Editor	Personal Editor 1 9002 8" diskette	5669-076/03	125										4508	05X
+Editor	Personal Editor 1 9001 8" diskette	5669-076/04	125										4508	05X
+Editor	Personal Editor 1 9001 8" diskette	5669-076/05	125										4508 w/o printer	05X
Editor	Personal Editor	6024-051	109									6520-5917	PC,PCjr	05Z
Editor	Personal Editor II	6276-560	50										PC,XT,jr,AT,PPC	05R
Editor	Personal Editor on 8" Diskette	6299-922	125										C505+9001+Printer	05W
Editor	Personal Editor on 5.25" Diskette	6299-923	125									GC22-9268	C505+9003	05W
Editor	Personal Editor on 8" Diskette	6299-930	125										C505+9001	05W
Editor	Personal Editor on 5.25" Diskette	6299-931	125									GC22-9268	C505+9001	05W
Editor	Personal Editor on 8" Diskette	6419-590	125									GC22-9268	C505+9002	05W
Editor	Personal Editor on 5.25" Diskette	6419-591	125									GC22-9268	C505+9002	05W
Editor	Primary Editor	6024-294	60									6520-1107	PC,PCjr,XT,AT,PPC	05Z
Editor	Professional Editor	6024-048	139									6520-5917	PC,PCjr	05Z
Editor	Text Editor	5798-RLH	350									.6830-1927	5280 Data System	15X
Editor	Text Editor	5799-BFP	1150									GH30-0245	System/34	15E
+Editor	Text Editor Release 1	5732-016	2360									SC34-0715	System/88	15M
Editor	XENIX tm (Preinstalled on 1-side hardisk	6331-443	995									GC22-9248	System 9000	05E
-Editor	3704/5 EP Trace Editor Program	5798-CHZ	660		60						12	GB21-1822	D05/VS,05/VS,MVS/XA	11H
EDL	Executive Data Link to PC	5798-RRQ	2750									.6830-2392	System/34+PC	15X
EDL	Executive Data Link to PC	5798-RRR	2750									.6830-2393	System/36+PC	15X
*EDL	Using EDX and EDL (Computer Based Trng)	7732-907	varies									SR20-8720	Series/1	V05C
Education	D05CHECK Installed User Education Guide	5796-002	1700									G520-6086	5746-F12	05H
Education	Education Info Syst - Section Developm	5796-PQT	8910									G520-6665	5796-BAZ	15X
Education	Education Information System - Data Base	5796-BAZ			488							24.6320-6424	D05/VSE DMS DL/I	15X
Education	Education Information - Registration	5796-PQR		840	304							24.6320-6663	5796-BAZ	15X
Education	Education Information System - Grading	5796-PRX		960	276							24.6320-9139	5796-BAZ	15X
Education	LOGO (R) with Turtle Graphics	6024-076	175									6520-5917	PC,PCjr	05Z
Education	Personal Teaching Aid	5726-PT1	600									G580-0534	System/34	15X
Education	School - Financial Management	5796-ZFY	15950									6830-2268	System/36	15H
Educational	CPCS Installed User Educational Guide	5796-001	2700									6320-5807	5734-F11	05H
Educational	Educational Fund-Raising	5798-RNY	550									.6830-2246	Displaywriter	15X
EDX/CF	Event Driven Executive Communic Ver 1.2	5719-CF1	2200			67						GL23-0070	Series/1	15X
Effectively	Leading Effectively	6871-528	113										PC	05Y
Effectively	Managing Time Effectively	6187-154	113										PC	05Y
Effectively	Using TSO Effectively II	5798-DFX	1090									.0821-2818	IIS, IIPS	1EX
+Effects	Special Effects with Slides	6276-631	25										PC,XT,PCjr,AT+color	05R
+EGA	THE FIX tm with EPROM for EGA	5793-AGQ/01	4500									GB30-2027	Industrial PC	05Y
+EGA	THE FIX Eng Devt with EPROM for EGA	5793-AGQ/03	2100									GB30-2027	Industrial PC	05Y
+EGA	THE FIX Runtime with EPROM for EGA	5793-AGQ/04	2675									GB30-2027	Industrial PC	05Y
EIS	Education Info Syst - Section Developm	5796-PQT	8910									.6320-6665	5796-BAZ	15X
EIS	Education Information System - Data Base	5796-BAZ			488							24.6320-6424	D05/VSE DMS DL/I	15X
EIS	Education Information - Registration	5796-PQR		840	304							24.6320-6663	5796-BAZ	15X
EIS	Education Information System - Grading	5796-PRX		960	276							24.6320-9139	5796-BAZ	15X

Keywords - Alphabetic Sequence

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Codes Explained in Appendix B

Keyword	Program Title	Number	OTC	ILC	MLC	DSO	DSI	DSH	NLP	MML	Mo	MoreInfo	Environment	TPLS
Elect Doc	DistbReport Management & Distribution System	5665-310		5720	858							GC30-3191	MV5/CIGS/VS,IMS/VS	15E
Elect mail	Interactive Network and Message System	6410-976	329									.G320-0546	PC/IX	05H
Electric	CAMM General Electric tm Contlr Offline	5793-AEY/07	500										6511	05Y
Electric	CAMM General Electric Controller Online	5793-AEY/13	1750										GB30-2037	6515
Electric	Electric Desk tm	6187-242	345										GB30-2037	PC,XT,3270-PC,AT
+Electric	Electric Desk tm Academic Edition	6205-272	64										GB30-2037	PC,XT,AT,jr
+Electric	Electric Desk tm Academic Edition	6205-273	64										GB30-2037	PCC 3.5" drive
+Electric	Electric Desk tm Academic Edition	6404-014	13										GB30-2037	User's Guide
+Electric	Electric Desk tm Academic Edition	6476-223	86										GB30-2037	PCjr cartridge
Electric	Electric Poet	6024-172	75										G520-1107	PC,PPC,PCjr,AT,XT
Electric	EDX to General Electric Series 6 tm Supt	5719-THD	5000										GC34-0099	5719-CF1
+Electric	Investigating Electric Fields	6024-464	75										G520-1107	PC,XT,AT,PCjr+color
+Electrical	Computer-Integrated Electrical Design	5668-878	75000			2500	52500	1750					VM+GDDM/graPHIGS	15E
+Electrical	Computer-Integrated Electrical Design	5669-191	6000										AT	05G
+Electrical	Computer-Integrated Electrical Design	5669-192	8000										RT AIX	05H
Electrical	Electrical Contractor Module	5710-RTT	8250										GB30-2450	5710-RTR
Electronic	Branch Electronic Reports System - Host	5799-BNX	33000										SH17-5500	4700+MVS
Electronic	Branch Electronic Reports System - 4700	5799-BZN	220										SH17-5500	BER8 Host
-Electronic	Electronic Document Distribution	5608-SRB	565										G544-2139	Disp/writer
+Electronic	Electronic Grammar (Paris of Speech)	6276-552	25										PC,XT,AT,PCjr	05E
Electronic	Electronic Payment Systems	5746-F12				1515							GH20-1959	DD5/VS
Electronic	Electronic Payment Sys Suppt/Check Procg	5796-PYK	15400										.G320-0218	VS1,MV5+3890
Electronic	Electronic Spreadsheet	5798-RRN	577										GB30-2343	System/36
Electronic mail	Professional Office System	5664-176	22000	5000	895	19790	3745	710					GH20-5601	VM
Electronic mail	PROFS Personal Computer Connection to VM	6410-984	219										G320-0652	PROFS+ISPF/PC+DD52+
Electronic-Mail	Document Distribution to Remote 5520	5798-RPJ	1540										GB30-2213	System/36+5520
Eleemosynary	Association Management	5798-RNX	550										GB30-2245	Displaywriter
Eleemosynary	Educational Fund-Raising	5798-RNY	550										GB30-2246	Displaywriter
Eleemosynary	General Donor Fund-Raising	5798-RNW	550										GB30-2196	Displaywriter
-Eleemosynary	Medical Fund Raising	5796-PXD	385										G320-0351	Reportpack
Element	CAEDS (R) Finite Element Solver	5796-BDW	26470	3655	941	19800	2400	620					G520-3935	5796-BBZ+3277GA,3251
+Element	CAEDS Graphics Finite Element Modeler 1.	5669-209	8940										RT	05H
+Element	CAEDS Graphics Finite Element Modeler	5713-AAD	varies		600								Base	VIUE
+Element	CAEDS Integrated Finite Element Solver	5713-AAE	varies		485								Base	VIUE
Elementary	Elementary Math Library XT/370	5799-BTB/01	30										3035	05C
Elementary	FORTRAN Elementary Math Library	5799-BTB	300										GH20-5370	VM,MV5+FORTRAN
Elementary	Mathematics, Elementary	5796-APC			260								24.G320-5804	I15,I1P5 (NOT IMS)
ELIAS	Entry Level Interactive Application SSX	5666-291		1165	224		876	167	14	22			GH19-6269	SSX+VSE
ELIAS-I	Entry Level Interactive Application Syst	5748-XXV	5190		236	3915		162	13	21			GH19-6218	DD5+VSE,CIGS/VS,DL/I
ELIAS-I/VM	Entry Level Interactive Application Syst	5748-XXX	8005		364	5960		271	28	46			GH19-6157	VM/CMS,CIGS/VS,DL/I
Embedded	IX/INFORMIX Embedded Query for COBOL	5796-TAY	9000										G320-0803	IX/COBOL
Embedded	IX/INFORMIX Embedded Query for C	5796-TBD	9000										G320-0803	IX/INFORMIX
-Employee	Employee Management System	5796-ZFP	11000										GB30-2276	System/34
Employee	School - Employee Management System	5796-ZGA	13200										GB30-2268	5796-ZFY
Employee/payrol	Accounting Solutions	6024-152	89										G520-3917	PC,XT,PCjr,PPC
Employment	Equal Employment Opportunity Report	5798-RQC	1100										GB30-2185	5727-M69
-Employment	Equal Employment Opportunity Report	5798-RRK	825										GB30-2179	System/34
EMS	Energy Management System	5740-U11	163650		7440								60.GH20-1496	05/VS1
Emul	EDX Basic Supervisor & Emul Ver 5.2	5719-X55	2200		158								GC34-0099	Series/1
-Emul	3270 Emul Upgrade from 8665780	5929-904/01	75											3278/9 Emul Adapter

Keyword	Program Title	Number	OTC	ILC	MLC	DSO	DSI	DSM	HLP	MHL	Mo	MoreInfo	Environment	TPLS
+Emulation	Chi Sperry Emulation	1596-802	795									G570-2231	PC,XT	OSE
+Emulation	RPS PC Connectivity - Printer Emulation	5710-RTJ/01	385									2110		1SX
+Emulation	SNA-3270 Terminal Emulation Release 1	5732-020	2200									SX34-0173	5732-010+5732-021	1SM
+Emulation	SSP (5360/62) 3278 Emulation on PC	5727-SS1/15	2250		150	1980							6080,4880,4869,4870	1SA
+Emulation	SSP (5364) 3278 Emulation on PC	5727-SS6/07	900			675							6091,6093,4873	1SA
Emulation	SSP 3270 Devise Emulation	5727-SS6/02	1100			825						G580-0570	4773	0SH
Emulation	SSP 3270 Emulation Feature	5727-SS1/04	2500		263	2200						GC21-9021	4508,4509,4603	1SA
Emulation	VTERM (DEC.VT100 tm, DEC.VT52 tm)	6871-491	125									G830-2037	PC,XT	0SY
Emulation	270x Emulation on 3705/20/25 Release 4	5735-XXB		1365	256		1025	192	40	64		GC27-0657	MVS,XA,VSE,VM	2SK
Emulation	3101 Emulation and Document Transfer	5798-RRF	330									G830-2303	Displaywriter	1SX
Emulation	3101 Emulation Program	6024-042	149									G520-3917	PC	0SZ
Emulation	3101 Emulation on 5.25" Diskette	6331-472	160									GC22-9263	CSOS Extensions	0SH
Emulation	3101 Emulation on 8" Diskette	6331-474	160									GC22-9263	CSOS Extensions	0SH
+Emulation	3101 Terminal Emulation 1 . 5.25"	5669-073	160										CSOS 1.13	0SX
+Emulation	3101 Terminal Emulation 1 8"	5669-073/01	160										6511	0SX
Emulation	3270 Binary Synchronous Emulation	6024-057	769									G520-3917	PC	0SZ
Emulation	3270 Device Emulation on S/34	5726-EM1	5500		223	4125		167				GC21-7807	System/34	1SX
Emulation	3270 Device Emulation BSC	5799-BEZ											System/34	0SX
Emulation	3270 Device Emulation SNA	5799-BGH											System/34	0SX
+Emulation	3270 Emulation Program Entry Level	59X9-904	185										3278/9 Emul Adapter	0SZ
-Emulation	3270 Emulation Program Version 2.0	59X9-951	425									SC23-0892	PC,XT,AT,LAN	0SZ
-Emulation	3270 Emulation Upgrade from 8665780	59X9-951/01	190									SC23-0892	9952	0SZ
+Emulation	3270 Emulation Upgrade from 59X9904	59X9-951/02	240									SC23-0892	9953	0SZ
-Emulation	3270 Emulation Upgrade from 6322526	59X9-951/03	75									SC23-0892	9954	0SZ
Emulation	3270 Emulation & SNA RJE Support	6024-036	769									G520-3917	PC	0SZ
+Emulation	3270-PC Emulation Program Version 3.0	59X9-969	475										PC,XT,AT	0SZ
+Emulation	3270-PC Emulation Upgrade from Entry Lev	59X9-980	240										59X9904	0SZ
-Emulation	3270-PC Emulation Upgrade from SNA 3270	59X9-981	75										6322526	0SZ
-Emulation	3270-PC Emulation Upgrade from Ver 2.0	59X9-995	75										59X9951	0SZ
-Emulation	3277 Emulation for Displaywriter	5799-BHT	450									GA09-1679	Displaywriter	0SE
-Emulation	3277 Emulation / Document Transfer	5799-BKG	550									GA09-1679	5799-BKE	0SE
+Emulation	3278/79 Emulation	5669-052	500									SV21-8032	AIX tm on RT	0SH
Emulation	3278/79 Emulation Control Program	6024-134	235									G520-3917	Personal Computer,XT	0SE
Emulation	5250 Emulation for the 4700	5799-BZL	1995									SC31-3588	Systems/34, 36, 38	1SE
Emulation	5250 Emulation Prog for PC or XT	6092-651	164									G520-3917	PC,XT+S/34,36,38	1SX
Emulation	5250 Emulation Convenience Kit	6092-656	745									G520-1107	PC+S/34,38	0SX
+Emulation	5250 Enhanced Emulation 2.1 Convence Kit	55X3-364	845									G570-2221	PC,XT,AT,PPC	0SZ
-Emulation	5250 Enhanced Emulation Upgrade to 2.1	6386-352	50									G570-2221	PC,XT,AT,PPC	0SZ
+Emulation	5250 Enhanced Emulation Program 2.1	6386-354	160									G570-2221	PC,XT,AT,PPC	0SZ
Emulation	5250 Remote Emulation Program	6403-685	195									G520-1107	PC,XT,PPC,AT+S/36,38	0SZ
Emulator	DOS Emulator	5744-AS1	nc									GC33-2017	OS/VS	NOSC
Emulator	EDX Basic Supervisor and Emulator Ver. 4	5719-XS4	1900		141								Series/1	1SX
Emulator	EP/VS - 3704 / 3705 Emulator Support	5747-AG1	nc									GC30-3008	DOS/VS, DOS/VSE	NOSJ
+Emulator	Graphics Terminal Emulator	5669-064	600									SV21-8061	RT AIX tm	0SH
Emulator	Graphics Terminal Emulator	6024-206	319									G520-1107	PC,XT,PPC,AT+DOS2.1+	0SZ
Emulator	Honeywell (R) 200 Emulator	5799-ADT				757						GA24-3604	DOS, DOS/VS	0SC
Emulator	RCA (R) 301 Emulator	5799-ADR				818						GA24-3605	DOS, DOS/VS	0SC
Emulator	1400 Emulator Programs	5747-CC3	nc									GC33-5384	DOS/VS	NOSC
Emulator	1401/1440/1460 Integrated Emulator	5744-AH1	nc									GC33-2018	OS/VS	NOSC
Emulator	1401/1440/1460 Emulator	5746-SU1	3400		154	2550		115	6	10		GC33-0011	DOS/VS, DOS/VSE	1SX
Emulator	1410/7010 Integrated Emulator	5744-AG1	nc									GC33-2019	OS/VS	NOSC

Keywords - Alphabetic Sequence

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Codes Explained in Appendix B

Keyword	Program Title	Number	OTC	ILC	MLC	DSO	DSI	DSH	MLP	MHL	Mo	MoreInfo	Environment	TPLS
Emulator	231x Emulator on FBA Devices	5747-SA1	nc										DOS/VSE	N05J
+Emulator	3270 Emulator Support Release 1	5732-005	5900									SC34-0678	System/88	15M
+Emulator	3270-PC AT/GX 3277GA Emulator	6476-047	1000										3270-PC AT/GX	05H
Emulator	3704/5 Emulator Support Package	5744-AN1	nc									GC30-3002	05/V5,VM	N05J
Emulator	7040/7044 Emulator	5744-AK1	nc									GC27-6948	05/V5	N05C
Emulator	7070/7074 Emulator	5744-AJ1	nc									GC27-6948	05/V5	N05C
Emulator	7080 Emulator	5744-AL1	nc									GC27-6952	05/V5	N05C
Emulator	7090/7094 Emulator	5744-AM1	nc									GC27-6983	05/V5	N05C
-Enabling	Application Enabling Facility	5798-DBF	2790			127							.GB21-2551 VM/CMS	15C
Encoder	Data Encoder	6024-149	109										6520-1107 PC,XT,PCjr,PPC,AT	05Z
Encrypt	ACF/VTAM - Encrypt / Decrypt Feature	5735-RC2/02		770	269			577	202	8	13		GC38-0285 6010,2109,6512,2309	15K
Encrypt/Decrypt	ACF/VTAM Ver 2 - Encrypt/Decrypt Feature	5662-280/01			240				180	7	11		GC27-0608 6000,6500	15K
Encrypt/Decrypt	ACF/VTAM Ver 2 - Encrypt/Decrypt Feature	5665-280/01			259				194	8	13		GC27-0608 6000,6500	15K
Encrypt/decrypt	Resource Access Control Facility 1.7	5740-XXH			841				630	43	69		GC28-0722 MVS	25K
Encryption	SSP Data Encryption Std for Banking	5727-SS1/06	200			175							GC21-9021 4512,4605	15A
ENERGRAPHICS	ENERGRAPHICS tm	6187-234	350										.GB30-2037 PC,XT,3270-PC+color	05Y
ENERGRAPHICS	ENERGRAPHICS tm Plotter	6187-236	100										.GB30-2037 ENERGRAPHICS+Plotter	05Y
Energy	Energy Conservation System II	5798-RLD	4680										.GB30-1912 Series/1	15X
Energy	Energy Facility Control Power Mgmt	5719-U11	6515			196						48.GC34-0063	Series/1	15C
Energy	Energy Facility Control Power Mgmt	5719-U12	9900			325						48.GH30-0094	Series/1	15C
Energy	Energy Facility Control Power Mgmt	5719-U13	12980			390						48.GH30-0500	Series/1	15C
Energy	Energy Facility Control Power Mgmt	5719-U14	4840			160						48.GH30-0094	Series/1	15C
Energy	Energy Facility Control Power Mgmt	5719-U15	6050			198						48.GH30-0500	Series/1	15C
Energy	Energy Management System	5740-U11	163650			7440						60.GH20-1496	05/V5/1	21B
Energy	Energy Special Feature	5719-U16/01	2740			90						48.GH30-0094	6000,6001	15C
Energy	Energy 2.0 (c)	5793-AGF	6000										5531,7531,7532	05Z
Energy	Energy 3 Special Feature	5719-U12/01	2740			90						48.GH30-0094	6000,6001	15C
-Energy	EDX Energy Conservation System	5798-RAB	3585			163						24.GB30-1450	Series/1	15H
Energy	EDX Energy Management - Supermarkets	5796-RJT	660									.GB30-1847	Series/1	15X
Energy	EDX Energy Mgt - Optional Source Code	5796-RJT/02	308										3014	15H
Energy	EDX Energy Mgt - Source Code for Interfc	5796-RJT/03	30										3015	15H
Energy	EDX Energy Mgt - Pragen System	5796-RJT/04	65										2031	15H
Energy	EDX Energy Mgt - Pragen System	5796-RJT/05	231										2032	15H
+Energy	Investigating Conservation of Energy	6024-406	75										6520-1107 PC,PCjr,XT,AT+color	05Z
+Energy	Investigating Thermal Energy	6024-405	75										6520-1107 PC,PCjr,XT,AT+color	05Z
Energy Manage	EDX General Purpose Automation Executive	5798-RCZ	6300			287						24.GB30-1565	Series/1	15H
Eng	Monotype Old Eng Text & New Berolina tm	5771-ACY	3000										0520-0004 CDPF	15E
+Eng	THE FIX Eng Devt with EPROM for C/GA	5793-AG0/02	2100										GB30-2027 Industrial PC	05Y
+Eng	THE FIX Eng Devt with EPROM for EGA	5793-AG0/03	2100										GB30-2027 Industrial PC	05Y
Eng	TRY-COPTCS	7798-CDP	nc										Information Network	N05C
+Engineering	Engineering & Scientific Subroutine Lib	5668-865				700					525		GC25-0182 Vector Facility	15E
Engineering	Engineering Simulation Program	6317-031	439										.6520-0821 PC,XT,AT+8008+FORTRA	05H
-Engineering/Sci	Engineering/Scientific Support Sys-Entry	5750-ES6	varies										0520-0118 Replaced by VMES3	V0ST
Engineering/Sci	VM/SP Entry Engineering/Scientific Enhn	5664-301/01	varies			569	9000							V25M
Engineering/Sci	VM/SP Entry Engineering/Scientific Enhn	5750-ES1/01	varies			569	9000							V25M
English	DisplayWrite/36 English Dictionaries	5727-HP2	120									105	0580-0454 DisplayWrite/36	15A
English	DW/36 English Dictionaries	5727-HP7/01	90										0580-0570 4787	05H
English	English Communications Skills II	5796-BBT	5080			385							.6520-6433 IIS,IIPS	1EH
Enhance	DMAS II Acct Rec Enhance - Food Distrib	5798-NXZ				158							12.GB30-1340 System/34	15H
Enhance	DMAS II Billing Enhance - Food Distrib	5798-NXY				207							12.GB30-1340 System/34	15H

Keyword	Program Title	Number	OTC	ILC	MLC	DSO	DSI	DSM	MLP	MML	Mo	MoreInfo	Environment	TPLS
Enhanced	CAMM DSE Analytical Mod, Enhanced Graphi	5793-AEY/02	950									GB30-2037	6506	05Y
Enhanced	CAMMGraph Build/Display Enhanced Graphi	5793-AEY/03	4600									GB30-2037	6507	05Y
Enhanced	CAMMGraph Display Enhanced Graphics	5793-AEY/04	2600									GB30-2037	6508	05Y
Enhanced	CPCS Online Adjustments - II Enhanced	5798-CLD/01			208							GB21-1948	9562	15E
Enhanced	Data Dictionary Utilities Enhanced	5798-DER/01	960									GB21-2746	4601	15X
Enhanced	D05 Enhanced Debug	6276-594	25									PC,XT,jr,AT,PPC		05R
Enhanced	Enhanced Network Processor Feature	5734-XP4/03	3650	166								.GH20-0855	6088.6089,6204	01B
+Enhanced	5250 Enhanced Emulation 2.1 Convence Kit	6386-354	845									6570-2221	PC,XT,AT,PPC	05Z
-Enhanced	5250 Enhanced Emulation Upgrade to 2.1	6386-352	50									6570-2221	PC,XT,AT,PPC	05Z
+Enhanced	5250 Enhanced Emulation Program 2.1	6386-354	160									6570-2221	PC,XT,AT,PPC	05Z
Enhancement	DASD DI-Open Enhancement	5798-AHH/01	150									GB21-1002	9534	01H
Enhancement	DPXC 3790 - Text Enhancement Feature	5798-CZE/01			40						12.	GB21-2431	6015	15H
-Enhancement	Physical Inventory Enhancement	5798-RBN	1110		101						12.	GB30-1506	System/34	15H
Enhancement	Physical Inventory Enhancement	5798-RPE	1395								12.	GB30-2230	System/36	15X
Enhancement	3890 Programming Test Aid Enhancement	5798-CBG/01			40						12.	GB21-1444	9516	15H
Enhancements	Automated Teller Host Enhancements	5796-BBH			1050						12.	G320-6428	DOS/VS, CICS/VS	15H
-Enhancements	CMS Exec Enhancements	5796-PJA	1690		154						12.	G320-5728	VM/CMS	11H
Enhancements	DITTO Enhancements	5798-ARN/01	150									GB21-2190	9500	11H
Enhancements	DITTO Enhancements	5798-CAF/01	150									GB21-2190	9502	11H
-Enhancements	Presentation Enhancements Using the 3800	5798-DJY	1995	375	120							GB21-2965	MVS	15X
-Enhancements	Sales Analysis Enhancements	5796-RJL	550									GB30-1810	System/34	15X
Enhancements	3630 Plant Monitoring Enhancements	5798-DAH/01			75						24.	GB21-2506	9566	15H
Enhancements	3890 Offline Sort Enhancements	5798-BDY	3140									GB21-1383	OS/VS	15H
Enhancements	3890 Online Fine Sort Enhancements	5796-AYF			185						12.	G320-6329	5798-CRC and CPCS	15H
-Enhancements	6670 Presentation Enhancements	5798-DNQ	880									G320-9159	MVS, VM-5798-DKB	15X
Ent	Order Ent & Inv - Upgrade from MAPICS	5714-M79/01	2630			2314							4625,9617	15E
-Entry/Edit	Construction Data Entry/Edit Support	5798-RBZ	605		55						12.	GB30-1516	5280 Data System	15H
-Entry/Inquiry	Online Hospital Data Entry/Inquiry	5798-NRH	2350		214						12.	GB30-1214	System/34	15H
-Entry/Invoice	Order Entry/Invoice to Gen Ledger Interfc	5798-RFB	850									GB30-2402	S/36+Ord Entry	15X
Entry/Invoice	Order Entry/Invoice to Gen Ledger Interfc	5798-RIC	525									GB30-2402	S/36+Ord Entry	15X
Entry/Invoice	Order Entry/Invoice to Gen Ledger Interfc	5798-RTD	550									GB30-2402	S/38+Ord Entry	15X
+Entry/Invoicing	SQLOMON III tm Order Entry/Invoicing	5669-093	995									SV21-8041	Accounts Receivable	05Z
Environment	Application Prototype Environment	5668-896	10000	1290	494	7500	963	369				GH19-6391	VM,MVS+VSAPL or APL2	15E
Environment	Application Prototype Environment	5785-RAB	3960									GB21-3078	Replaced by 5668-896	15X
+Environment	Expert System Consultation Environment	5798-DXA	25000		1250							G325-0040	VM	25H
Environment	Expert System Consultation Environment	5798-RHP	25000		1250							G320-0828	VM	25H
+Environment	Expert System Development Environment	5798-DXB	35000		1750							G325-0040	MVS Consultation env	25H
Environment	Expert System Development Environment	5798-RHQ	35000		1750							G320-0828	ESCE	25H
Environment	3650 Point-of-Sale Retail Environment	5748-D14	5695		149						48.	GC30-3056	DOS/VS, OS/VS	15A
Environment	3650 Supermarket Environment	5748-D21	2770		72						48.	GC30-3055	SPPS II & PSS Host	15A
+Environment:	Environment: Habitats & Ecosystems	6024-412	65									G520-1107	PC,PCjr,XT,AT+color	05Z
+Environment:	Environment: Habitats & Ecosystems	6024-442	295									G520-1107	PC,PCjr,XT,AT+color	05Z
+Environment:	The Environment: Cycles & Interactions	6024-413	65									G520-1107	PC,XT,AT,PCjr+color	05Z
+Environment:	The Environment: Cycles & Interactions	6024-443	295									G520-1107	PC,XT,AT,PCjr+color	05Z
Environmental	Environmental Recording Editing Printing	5654-260		nc								GC28-1378	VM,VM-HPD,VM-XA	N05S
Environmental	Environmental Recording Editing Printing	5656-260		nc								GC28-1378	VSE	N05S
Environmental	Environmental Recording Editing Printing	5658-260		nc								GC28-1378	VSI,MVS,XA	N05S
EP	S.M.I.F.T. BSC EP Support	5799-AQT	3135		98							SC19-5017	TCAM	15A
-EP	3704/5 EP Trace Editor Program	5798-CHZ	660		60						12.	GB21-1822	DOS/VS, OS/VS, MVS/XA	11H
EP/VS	EP/VS - 3704 / 3705 Emulator Support	5747-AG1		nc								GC30-3008	DOS/VS, DOS/VSE	N05J

Keywords - Alphabetic Sequence

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Codes Explained in Appendix B



Keyword	Program Title	Number	OTC	ILC	MLC	DSO	DSI	DSM	MLP	MHL	Mo	MoreInfo	Environment	TPLS
EP/VS	EP/VS Feature	5747-CH2	nc										DUS/VSE	N0SN
EP/VS	Network Control Program	5747-CH1/01	nc										GC30-9531 6004	#05J
EP/VS	3704/5 Emulator Support Package	5744-ANI	nc										GC30-3002 05/VS,VM	#05J
EP/3705/25	270x Emulation on 3705/20/25 Release 4	5735-XXB		1565	256		1025	192	40	64			GC27-0657 MVS,XA, VSE,VM	25K
EPIC	EPIC - SOKRATES Online Maint System	5796-AQH			220							12.6320-5814	D09/VS,CICS/VS	15H
-EPAN	APL Economic Planning Language	5796-PDM	2705	246								12.6320-5535	APLVS	11H
+EPROM	THE FIX tm with EPROM for C/GA	5793-AG0	4500										GB30-2027 Industrial PC	05Y
+EPROM	THE FIX tm with EPROM for EGA	5793-AG0/01	4500										GB30-2027 Industrial PC	05Y
+EPROM	THE FIX Eng Devt with EPROM for C/GA	5793-AG0/02	2100										GB30-2027 Industrial PC	05Y
+EPROM	THE FIX Eng Devt with EPROM for EGA	5793-AG0/03	2100										GB30-2027 Industrial PC	05Y
+EPROM	THE FIX Runtime with EPROM for EGA	5793-AG0/04	2675										GB30-2027 Industrial PC	05Y
EPSS	Check Reports	5748-F13	16500			552							GH20-2136 05/VS,D0S/VS	11B
Equal	Equal Employment Opportunity Report	5798-RQC	1100										.GB30-2185 5727-M69	15X
-Equal	Equal Employment Opportunity Report	5798-RQK	825										.GB30-2179 System/34	15X
-Equation	Textpack 6 Multipass Equation Print	5799-MMK	nc										Displaywriter	#05E
+Erasure	Classified Data Erasure Program	5798-DXN	5000										GC26-4269 VM,MVS	15S
EREP	Environmental Recording Editing Printing	5656-260	nc										GC28-1378 VSE	#05S
EREP	Environmental Recording Editing Printing	5658-260	nc										GC28-1378 VSI,MVS,XA	#05S
EREP	EREP SCP for VSE	5656-093	nc										GC28-1178 Replaced by 5656-260	#05S
EREP 3.2	Environmental Recording Editing Printing	5654-260	nc										GC28-1378 VM,VM-HPO,VM/XA	#05S
ESCE	Expert System Consultation Environment	5798-RMP	25000	1250									.G320-0828 VM	25H
ESDE	Expert System Development Environment	5798-RMQ	35000	1750									.G320-0828 ESCE	25H
Estate	RPS Expanded Estate Planning	5710-RTK/03	1210	55									2107,2114	15X
Estimating	Interactive Cost Estimating - Base	5710-RTN	12650										.B030-2450 System/36	15H
Estimating	Interactive Cost Estimating - Base	5710-RTR	12650										.GB30-2450 System/36	15H
Estimating	Timberline Estimating	6871-337	490										.GB20-2037 PC,XT,AT	15H
Estimator	Response Time Estimator (Feature 9231)	6316-968	275										.G320-0336 PC,PCjr,XT,3270-PC	05H
Ethernet	VM Interface Program for TCP/IP	5798-DRG	18700	850									.G320-9219 VM/EDX/RPS/DACU	15H
Eval	Inv Mgmt Prod Rep & Ord Val Eval Improve	5714-D46	9975	349	7475	261							.GH30-0080 System/38	11D
Eval	Programmed Eval of Contract Option Strat	6276-614	250										PC,XT, Jr,AT,3270-PC	05R
-Evaluation	Automated Project Planning & Decision	5796-AZR	968	88								12.6320-6599	MVS,D0S/VS,VM/CM05	15H
Evaluation	Cost Evaluation Processor Feature	5746-XP1/02	1980	90									.GH19-1055 6009,6153	11B
Evaluation	DPPX Load Evaluation Simulator	5785-EDB	5280	240									.G320-9210 COBOL	15H
Evaluation	Planning Control & Decision Evaluation	5740-XX8	21140	961									.GH19-1103 CICS/JMS VM T50	25B
Evaluation	Planning Control & Decision Evaluation	5740-XX9	17310	787									.GH19-1103 05/VS	21B
Evaluation	Planning Control & Decision Evaluation	5746-XXA	17310	787									.GH19-1103 D0S/VS	21B
Evaluation	Planning Control & Decision Evaluation	5746-XX9	21140	961									.GH19-1103 CICS/D0S/VS	25B
-Evaluation	Project Evaluation and Control System	5785-EAE	8580	373									.G320-6088 VS-APL (5748-AP1)	15H
Evaluation	Student Evaluation System	5796-ZNJ	3000										.GB30-6002 Student Mgt System	15H
Evaluation	Cost Evaluation Processor Feature	5740-XP1/02	1980	90									.GH19-1055 6006,6222	11B
-Event	Automated Event Control	5798-DBQ	660	60								12.6821-2561	CICS/VS	15H
Event	Event Driven Executive Communic Ver 1.2	5719-CF1	2200	67									GL23-0070 Series/1	15X
Event	Event Driven Executive Version 5.2	5719-XJ5	750										GC34-0099 Series/1-PC (4950)	15M
-Event	Event Driven Executive	5796-PGH		825									12.6320-5677 05/MWT,MVS	15H
Events	Membership Special Events	5796-ZJJ	3300										.GB30-2401 5796-ZJE	15X
Events	Special Events - Trade Assn	5796-ZJD	3300										.GB30-2352 5796-ZHZ	15X
Excelsior	Excelsior	6187-282	8400										.GB30-2037 3270-PC,XT,AT	05Y
Excelsior	4250 Excelsior tm	5771-AGG	480										6520-0004 CDFP (5668-997)	11E
Exchange	Diskette Exchange Facility	5799-CCN	325										.GC21-0142 S/36 PC,S/36,PC/AT	05A
Exchange	Displaywriter - Information Exchange	5798-RPL	726										.GB30-2215 S/36*Displaywriter	15X

Keyword	Program Title	Number	OTC	ILC	MLC	DSO	DSI	DSM	HLP	HML	Mo	MoreInfo	Environment	TPLS
-Exchange	Information Exchange with Displaywriter	5798-RJY	660									.GB30-1857	S/34+Displaywriter	1SX
Exchange	Initial Graphics Exchange Spec Processor	5668-904	26600	2400	800							5374LM+5796ATC+ATJ		1SE
-Exec	CMS Exec Enhancements	5796-PJA	1690		154							12.G320-5728	VM/CMS	1IHK
Exec	DPFX 3640 Presentation Services Exec	5660-267	2125	82	1665			70	19	30		GC31-0010	DPFX/BASE	1SX
Exec	RPS Prog Comm Subsys Extend Exec Support	5719-CS2	1200		34							GC36-0186	Series/1	1SX
Exec	VSE/Distributed Systems Node Exec 1.1.0	5666-284	3800		253	3420		228	41	66		SC33-6210	VSE+VTAM	1SK
Exec.	Cross System Product/Application Exec.	6317-010	135									.G520-6004	PC,XT,AT,XT/370,3270	0SG
Execution	Cross System Product / Applic Execution	5660-285	1365		60	1160		45	6	10		.GH20-0940	DPFX/SP	1SK
Execution	Cross System Product/Applic Execution V2	5668-825	8275		412	7450						H206-426	.CIGS,MVS,SSX,VM	2SK
Execution	Cross System Product / Applic Execution	5668-945	4200	720	172	3780	540	128	22	35		.GH20-0940	.CIGS/DOS/VS,SSX,VM	2SK
Execution	CSP Execution - CIGS/OS/VS TSO	5668-945/01	2490		117	2245		86	22	35			.4532,4676,6532,6568	2SK
Execution	CSP Execution - VM/CMS	5668-945/02		700	120		540	90	22	35			4537,2121,9537,2321	2SK
Execution	DPFX / DMS Execution Facility	5660-265	493		23	420		16	15	23		.GH20-2438	DPFX/DMS	1SK
+Execution	FORTRAN VS Execution Analyzer	5798-DXJ	12500									GI26-0139	MVS,XA+VS FORTRAN	1SH
Execution	PCS-ADS Application Execution System 2.0	5796-BCE	16500		589							.G320-6651	05,DOS+CIGS+DL/I	1SE
+Executive	Advanced Interactive Executive tm	5669-061	3400									GC23-0784	RT	0SH
Executive	Check Processing Executive / 3694	5748-F53	2100		66							GH20-2444	5748-F54	1SB
Executive	Check Processing Executive / VS	5748-F54			346							GH20-2444	05/VS,DOS/VSE	1SB
+Executive	COPICS Executive Data Link	5785-DFM	10000		500							GB30-5056	XT,AT,3270-PC+Emultn	1SH
Executive	Distributed Systems Executive 3.1	5668-915		2700	1035		2025	776	88	140		GC23-0108	MVS+VTAM/TCAM	1SK
Executive	Distributed Systems Executive Ver 2	5668-986		1220	468		915	350	44	69		.GH19-6229	VTAM/E,TCAM+8100	1SK
Executive	Event Driven Executive Communic Ver 1.2	5719-CF1	2200		67							GL23-0070	Series/1	1SX
Executive	Event Driven Executive Version 5.2	5719-XJ5	750									GC34-0099	Series/1-PC (4950)	1SM
-Executive	Event Driven Executive	5796-PGH			825							12.G320-5677	05/MVT,MVS	1SH
Executive	Executive Data Link to PC (5250 Emulate)	5798-RRP	2750									.GH30-9029	CMS/36	1SX
Executive	Executive Data Link to PC	5798-RRQ	2750									.GB30-2392	System/34+PC	1SX
Executive	Executive Data Link to PC	5798-RRR	2750									.GB30-2393	System/36+PC	1SX
Executive	Executive Data Link to PC (5250 Emulate)	5798-RRZ	2750									.GH30-9030	CMS/36	1SX
Executive	Executive Phone Directory Build Your Own	6276-524	150										PC,XT,jr,AT,3270-PC	0SR
Executive	Executive Phone Directory	6276-528	35										PC,XT,jr,AT,3270-PC	0SR
Executive	Executive Phone Directory + Message Feat	6276-533	40										PC,XT,jr,AT,3270-PC	0SR
Executive	Executive Solutions	6024-151	69									.G520-3917	PC,XT,PCjr,PPC	0SR
Executive	Interactive Executive for System/370	5667-126	10000					495	792			GC33-6207	VM+Series/1	T2SK
+Executive	Interactive Executive 3270-PLUS	6317-060	995									.G320-0837	AT+Xenix+SDLC adaptr	0SH
Executive	PC Interactive Executive	1755-369	989									GH20-6247	PC,XT,XT/370,AT+10MB	0SE
Executive	PC Interactive Executive Upgrade to 1.1	6317-009	40									GH20-6247	PC/IX 1.0 6428163	0SE
Executive	Series/1 Input/Output Executive Ver 1.1	5719-EM1	650									SC34-0726	EDX or RPS+V1-XT/AT	1SM
Executive	Series/1 Interactive Executive	5719-UN1	6500									GA34-0298	4956 Processor	1SL
Executive	Small System Executive / VSE	5666-265	20000		1315	15000		922	123	197		GC33-6143	4300	2SK
Executive	Virtual Machine Interactive Executive	5799-BXN	47000									GH20-6410	VM+STIPS (5799-BXN)	3SE
-Executive	3279 Executive Presentation System	5798-DEB	4550		345							GB21-2725	VM,T50 + GDDM	1SH
Executive/Gener	3694 Check Processing Executive/General	5798-DQK	4950									.G320-0372	System/38	1SH
EXEC2	Virtual Machine/System Product Rel 4	5664-167			443			332	69	110		GC20-1838	S/370,4300,303x,308x	2SK
Expanded	Helvetica Condensed and Expanded tm	5771-ACB	1120									G520-0004	CDPF	1SE
Expanded	RPS Expanded Estate Planning	5710-RTK/03	1210		55								2107,2114	1SX
-Expansion	Data Compression / Expansion	5798-ATB	106									GB21-0938	DOS/05	0SH
Expansions	3694 Application Macro Expansions	5748-F36	2600		93	1950		70	19	30		GC31-0012	05/VS,DOS/VSE	1SK
Expense	Executive Solutions	6024-151	69									.G520-3917	PC,XT,PCjr,PPC	0SZ
+Expert	Expert System Consultation Environment	5798-DXA	25000		1250							.G325-0040	MVS	2SH
Expert	Expert System Consultation Environment	5798-RHP	25000		1250							.G320-0828	VM	2SH

Keywords - Alphabetic Sequence

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Codes Explained in Appendix B

Keyword	Program Title	Number	OTC	ILC	MLC	DSO	DSI	DSH	MPL	MML	Mo	MoreInfo	Environment	TPLS
+Expert	Expert System Development Environment	5798-DXB	35000		1750							.G325-0040	MVS Consultation env	25H
Expert	Expert System Development Environment	5798-RMQ	35000		1750							.G320-0828	ESCE	25H
Expert systems	micro-PROLOG	6205-277	395									.GB30-2037	PC,XT,AT	05Y
Expert systems	LISP	5798-DQZ	7150		325							.G320-0349	VM	25H
Exponent	FORTRAN H - Extended Exponent Range	5796-PKR/01	1890										6043,4	25H
-Exponentiation	Financial Planning and Report Generating	5796-ZHT	385									.GB30-2340	UCSD p-System tm R/D	15X
Exponentiation	FORTRAN Elementary Math Library	5799-BTB	300									GH20-5370	VM,MVS,FORTRAN	15E
Express	CADAM (R) Express - Base	5664-286	126000	8560	3315							GH20-6487	5750-VME	15E
Express	CADAM (R) Express	5750-VME	varies									GH20-6487	VM,5080 or 3250	15E
Express	CADAM Express Versaplot Color Random	5664-286/01	6250										4532	15E
Express	CADAM Express Workstation Extension	5664-286/02	97720	30330	1185	2362016850							2113,4527,4528	15E
EXPRESS	Data Base Extracting and Restructuring	5796-PLH	16780		655							.G320-6160	IMS/VS PL/I	15X
Express	File Transfer Express	6317-001	79									.3209-242	3270-PC CP+DOS 2.0	05H
Express	Overhead Express tm	6187-191	195									.GB20-2037	PC,XT,3270-PC,AT	05Y
Ext	Videntex/PC Ext Sup Updtd Bl.0 to Bl.1	6265-471	30									.G520-3917	PC,XT,AT+ACA+modem	05H
Extend	Business Management Series Acctg Extend	6410-958	275										PC+10MB	05G
Extend	RPS Prog Com Subsys Extend Exec Support	5719-CS2	1200		34							GC34-0186	Series/1	15X
+Extension	Business Adviser - Network Extension	6466-992	245										LAN or TokenRing	105G
Extension	CADAM Express Workstation Extension	5664-286/02	97720	30330	1185	2362016850							2113,4527,4528	15E
Extension	CPS Extension I	5799-TAI	55		2							24 SC34-1552	Series/1	15C
Extension	CPS Extension II	5799-TAQ	55		2							24 SC34-1559	Series/1	15C
Extension	Graphwriter tm Extension Set	6871-478	395									.GB30-2037	PC,XT,3270-PC	05Y
Extension	Language Extension System-Assembler	6276-584	25										PC,XT,jr,AT,PPC	05R
Extension	Network Extension Facility	5799-AZP	18580		718							.GH20-5289	ACF/NCP/VS	15X
+Extension	Network Extension Facility Version 2	5799-CDX	70000										3725+MVS/VTAM	23H
Extension	4730 Financial Application Extension	5799-BZR	25000										CICS	15X
Extension	4730 Financial Application Extension IMS	5799-CJN	45000										MVS	15H
-Extensions	API System Extensions	5796-AZT	3165		240							.G320-6394	VM/CMS with VSAPL	15H
Extensions	Bank Teller Ap - Commercial Extensions	5796-AZX	1580									.G320-6396	3600	15H
Extensions	Basic System Extensions VM/BSE	5748-XXR			181			135	44	70		GC20-1828	VM	25X
Extensions	CMS Sort Plus Extensions XI/370	5798-BDM/02	132										3037	05C
+Extensions	CS05 Extensions 1.13 5.25" diskette	5669-075	155										System 9000	05X
+Extensions	CS05 Extensions 1.13 8" diskette	5669-075/01	155										4509	05X
Extensions	DITTO Extensions	5798-CDA	1320									.GB21-1549	05	11H
Extensions	DPXC DISQSS Extensions	5785-ECF	1620									.G320-9209	DOSF	15H
Extensions	DPFX/Base Command Facility Extensions	5760-010/01	680	25	578		21	11	17			GC27-0400	6006,6018,6019,6007	15K
-Extensions	HDAM Randomizer Generator Extensions	5798-CXN	1140	104								12.GB21-2347	5798-CQG 05/VS	11H
Extensions	Mass Storage System Extensions 3850	5740-XYG		327				245	54	86		GH35-0034	05/VS,MVS/YA	15K
Extensions	MVS Link Pack Area Optimizer Extensions	5798-DRD	1705									.G320-9206	MVS	15H
Extensions	MVS Systems Extensions	5740-XE1		1960				1470	114	182		GC28-0872	MVS	25K
Extensions	Operating System Extensions on 8" Disk	6089-579	155									GC22-9199	CS9000	05H
Extensions	Operating System Extensions on 5.25"Disk	6092-497	155									GC22-9199	CS9000	05H
Extensions	05/VS1 Basic Programming Extensions	5662-257			259			194	48	77		GC24-5218	05/VS1+5740-AM6	15K
Extensions	Sort Extensions	5798-BDM/01	nc									.GB21-1376	4606	15H
Extensions	TS0 Data-set Print VTAM, XA Extensions	5728-CPF/01	957		76							12.GB21-2069	4607,4598	15H
Extensions	Virtual Machine System Extensions VM/SE	5748-XE1		1435				1076	197	315		GC20-1827	VM/CMS	25X
+Extensions	XENIX tm Extensions 1.0	59X9-943	475										XENIX 2.0	05Z
Extensions	3640 CICS/VS Extensions - 4331 Loops	5799-BEH		73				55	7	11			DOS/VSE,05/VS1	15K
-Extensions	3800 Character Extensions	5798-CZG	330									.GB21-2429	05/VS D05/VS	05H
Extensions	3800 90 Degree Print Extensions	5796-BAC	858									.G320-6418	5796-ARE,-ANX	15H

Keyword	Program Title	Number	OTC	ILC	MLC	DSO	DSI	DSH	MLP	MML	Mo	MoreInfo	Environment	TPLS	
Extentions	Helvetica tm - Language Extentions	5771-ACF	4500											15E	
Extract	Data Extract	5668-973		3840	640		2880	480	37	59		0520-0004	CDFP	2LK	
Extract	Data Extract Non-Relational Feature	5668-788/01			750			563						25M	
Extract	Data Extract Relational Feature	5668-788/02			375			500						25M	
+Extract	Data Extract 2.]	5668-788			300			225				GC26-4241	VM,MVS,XA	25M	
-Extract	Video Reverse Extract Offline Data Entry	5798-CJG	1690		154							12.GB21-1843	DOS/V5 VIDEO/370	15H	
-Extract	Video Reverse Extract Offline Data Entry	5798-CJP	1690		154							12.GB21-1843	OS/V5 VIDEO/370	15H	
-Extract	VIDEO/370 Reverse Extract II	5798-DHD	946	295	86							12.GB21-2893	DOS/VSE	15X	
Extracting	Data Base Extracting and Restructuring	5796-PLH	16780		655							.G320-6160	IMS/V5 PL/I	15X	
+Eye	PC Picturepak tm - Eye Openers	6871-340	195									.GB30-2037	Storyboard	05Y	
EZ-Prep	Cross System Product/Application Generat	6317-011	1319									.0520-6004	EZ-VU Runtime	05G	
EZ-Run	Cross System Product/Application Exec.	6317-010	1315									.0520-6004	PC,XT,AT,AT,370,3270	05G	
-EZ-WU	ISPF/PC Development Facility	6410-080	130									.0520-3917	EZ-VU Runtime	05X	
-EZ-VU	ISPF/PC Runtime Facility	6316-969	55									.GC34-4001	PC,PCjr,3270-PC,AT	05X	
EZ-VU	ISPF/PDE_PC_Editor	6466-974	150										EZ-VU Runtime	05G	
+EZ-VU II	ISPF/PC II Development Subscriber Update	6265-484	30									0520-6006	6317026	05G	
+EZ-VU II	ISPF/PC II Development Facility	6317-026	495									.0520-6006	Runtime (6317025)	05G	
+EZ-VU II	ISPF/PC II Devt Nonsubscriber Updates	6265-485	55									0520-6006	6317026	05G	
+EZ-VU II	ISPF/PC II Runtime Subscriber Updates	6265-486	30									0520-6006	6317025	05G	
+EZ-VU II	ISPF/PC II Runtime Nonsubscrbr Updates	6265-487	55									0520-6006	6317025	05G	
+EZ-VU II	ISPF/PC II Runtime Facility	6317-025	59									.0520-6006	All except PCjr	05G	
FAAT	Automated Teller Host Enhancements	5796-BBH			1050							12.G320-6428	DOS/V5, CICS/V5	15H	
FAAT	Automated Teller Host Support	5796-BBJ			2235							12.G320-6428	CICS/DOS/V5	15H	
+Fac	Print Services Fac - 3820 Comm Attach	5664-198/01	4000		200	3000		150				0544-3415	4789,4790,6586,6597	25M	
+Fac	Print Services Fac - 3800 Chan Attach	5664-198/02	13375		510	10031		383				0544-3415	4788,4787,6549,6560	25M	
-Faces	MANVFONT Text Processing Type Faces	5796-PPE	1450		132							12.G320-6634	DCF	15H	
Faces	Type Faces tm	6871-333	95									.GB30-2037	PC,3270-PC	05Y	
Facility/VM	Image View Facility/VM Feature	5785-ECX/01	660		30								6010,6012	25H	
Facility/VM	Image View Facility/VM Feature	5785-EDJ/01	600										6008,6009	25H	
+Facility/VM	Print Management Facility/VM	5664-310	8450		325							0520-5102	GDDM/V5APL/APL2	25M	
+Facility/VM	Print Services Facility/VM	5664-198	9230		355	5923		267				0544-3415	VM3800,3820	25M	
+Facility/VM	Print Services Access Facility/VM	5664-312	3770		145							0544-3415	VM3800/3820	25M	
FACT	FACT TRACK tm	6024-023	90									0520-3917	PC	05Z	
+Facts	Private Tutor Series - Spell Facts	6276-627	20										6024113 or 6276602	05R	
Facts	World Geography Facts	6187-201	150										PC	05Y	
+Family	PC PicturePak The PC Family	6187-327	195									.GB30-2037	PC,XT,PCjr,AT	05Y	
Fare	Fare Quote / Ticketing	5736-T11	124850		5675							.GH20-0873	ACP	01B	
Fare	Fare Quote / Ticketing Tariff Maint Feat	5736-T11/01249900			11360							.GH20-0873	6030,6031,6049	01B	
FAS	Funds Allocation System	5796-PYZ	27000									.G320-9222	MPSX+PL/I Transients	25H	
-Fast	DL/I Fast Scan Utility for DOS/V5	5798-CYJ	2570									.GB21-2380	DOS/V5 DL/I	11H	
Fast	Fast Copy Data-set Program	5746-AM4	499						5	8		GC33-6081	DOS/VSE	15K	
FAST	FAST GRAPHS tm	6871-362	140									.GB30-2037	PC	05Y	
Fast	IMS/V5 Fast Reorganization Reload II	5798-DPR	3960									.G320-9201	IMS/V5	15X	
Fast	SSX/VSE Fast Copy	5799-BNF/03	85		5	77		5					4860,4861,4862,4863	25K	
Fast	VSE VSAM Fast Backup Restore Feature	5746-AM2/02			33			30	7	11		GC24-5190	6091,6506	15K	
Fast	VSE/SP Fast Copy Feature	5666-316/07	454		22	409		20						15	
Fast	VSE/SP Fast Copy Feature	5799-BNB/08	378		20	340		18					4516,4927,4966,4967	15K	
Fast	VSE/SP Fast Copy Feature	5799-BNC/03	454		23	409		21					4574,4938,4990,4991	15K	
Fast path	IMS/V5 Data Base System 1.3	5740-XXZ			2593			1944	240	384			GH20-1260	MVS,V51	05K
Fast path	IMS/V5 Data Communications Feature	5740-XXZ/02			2250			1687	192	307			GH20-1260	6172,6566	05K

Keywords - Alphabetic Sequence

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Codes Explained in Appendix B

Keyword	Program Title	Number	OTC	ILC	MLC	DSO	DSI	DSM	MLP	MML	Mo	MoreInfo	Environment	TPLS	
Fastdraft	Fastdraft to IGES Translator	5796-BEB		2285	251						24		05/VS,VM/SP	1SX	
Fastdraft	Fastdraft Drawing Mgt to MAPICS Bridge	5796-RRN	2350										System/34+7361	1SX	
Fastdraft	7361 Fastdraft System	5719-GP1		1070	160						36	GC34-0513	7361+3101+3251	2SX	
Faster	CICS/DOS/VS Faster Language Facility	5746-XX3/01			120								GH20-1502 6019	2SC	
Faster	CICS/OS/VS Faster Language Facility Feat	5740-XX1/01		343	128								GH20-1502 6022,6023	05C	
FBA	231x Emulator on FBA Devices	5747-SA1	nc										DOS/VSE	NOSJ	
FC/PM1	Energy Facility Control Power Mgmt	5719-U11	6515		196						48	GC34-0063	Series/1	1SC	
FC/PM2	Energy Facility Control Power Mgmt	5719-U12	9900		325						48	GH30-0094	Series/1	1SC	
FC/PM2M	Energy Facility Control Power Mgmt	5719-U14	4840		160						48	GH30-0094	Series/1	1SC	
FC/PM3	Energy Special Feature	5719-U14/01	2740		90						48	GH30-0094	6000,6001	1SC	
FC/PM3	Energy 3 Special Feature	5719-U12/01	2740		90						48	GH30-0094	6000,6001	1SC	
FC/PM4	Energy Facility Control Power Mgmt	5719-U13	12980		390						48	GH30-0500	Series/1	1SC	
FC/PM4M	Energy Facility Control Power Mgmt	5719-U15	6050		198						48	GH30-0500	Series/1	1SC	
-FCO/VTAM	File Cabinet Option / VTAM	5798-DCG	15960		732								.GB21-2604 MVS/SP,MVS/XA	1SH	
FCS	COBOL Support for 4700 Finance System	5666-266		1070	375		802	280	66	106			GL23-0078	DOS/VSE	1SK
FCS	COBOL Support for 4700 Finance System	5668-987		1495	520		1120	388	82	131			GL23-0078	05/VS,MVS/XA	1SK
FCS	Forms / Passbook Printer - 4720 FCS	5799-BJE	1500										DOS/VSE,05/VS+3600	1SL	
FCS	4700 AMG Upgrade from 5799-BQZ	5668-934/01	13500										4712	1SK	
FCS	4700 Finance System - Adv Branch Control	5799-BQY	800										05/VS,VSE+5668-969	1SE	
FCS	4700 Finance System - Format Distributn	5799-BQZ	11000		979								5668-989+5799-BQY	1SE	
FCS	4700 FCS CRM - Upgrade from 5799-BQY	5668-935/01	550										4714	1SK	
FCS	4700 FCS CRM - Upgrade from 5799-BZE	5668-935/02	450										4715	1SK	
FDA/BMD	AHA Medical Device Database	7798-MDD	nc										Information Network	NOSC	
EDMAS	Accounts Receivable Food Distributors	5726-D66	1815		95								GH30-0156	System/34	1IX
EDMAS	Billing Food Distributors	5726-D65	2640		137								GH30-0156	System/34	1IX
EDMAS	Inventory Control Food Distributors	5726-D67	2365		122								GH30-0156	System/34	1IX
EDMAS	Sales Analysis Food Distributors	5726-D68	2150		95								GH30-0156	System/34	1IX
FDS	4700 FDS Upgrade from V1 (5799-BQZ)	5799-BZD/01	7500										5775	1SE	
FDX	Link Control FDX IATA 3704 SEP	5799-AHP	12100		550								ACP	1SB	
+Fert:	Pollination & Fert: Seeds,Fruits,Embryos	6024-615	65										G520-1107 PC,XT,AT,PCjr,color	05Z	
+Fert:	Pollination & Fert: Seeds,Fruits,Embryos	6024-445	295										G520-1107 PC,XT,AT,PCjr,color	05Z	
FFTDCA	DisplayWrite/36	5727-HP1	2000		133	1760							G580-0454	System/36	1SA
FFTDCA	Host to Displaywriter Document Interchg	5799-BXF	3315										GC09-1037 5796-PWP+5608-SR9	2SD	
FFTDCA	Host to Displaywriter Document Interchg	5799-BXG	6095										GC09-1037 5796-PRH+5608-SR9	2SD	
FFTDCA	5520 Attach Kit V3 (Feat 2896) Incl 289	6403-724	875										G520-3917 All except PCjr	05C	
FFTDCA	5520 Attach Version 3 (Feature 2895)	6403-725	384										G520-3917 All except PCjr	05C	
+Fields	Investigating Electric Fields	6024-464	75										G520-1107 PC,XT,AT,PCjr,color	05Z	
File exchange	Cluster Program	6024-107	99										G520-3917 PC,PCjr,PPC,XT	05Z	
File exchange	Cluster Program - Five Pack	6024-182	439										G520-3917 PC,PCjr,PPC,XT	05Z	
FileCommand	FileCommand	6024-062	39										G520-3917 PC	05Z	
FileCommand	FileCommand II	6276-558	20										PC,XT,jr,AT	05R	
Filing	Filing Assistant	6024-145	165										G520-3917 PC,XT,PCjr,PPC	05Z	
Finan	Info Syst for Attny - Lawyer Finan Mgt	5793-AEN	2290										GB30-6001 Contrlr+Client Fin	05H	
Finan modelling	Personal Decision Series - Plans+ Editn	6410-972	335										.Data Edition	05G	
Finance	Business Management Series Finance Exten	6410-957	275										PC+0MB	05G	
Finance	COBOL Support for 4700 Finance System	5666-266		1070	375		802	280	66	106			GL23-0078	DOS/VSE	1SK
Finance	COBOL Support for 4700 Finance System	5668-987		1495	520		1120	388	82	131			GL23-0078	05/VS,MVS/XA	1SK
Finance	Info Syst for Attny - Lawyer Finance Mgt	5793-AEA	750										GB30-6000	Client Finance Mgt	05H
Finance	Info Syst for Attny - Law Firm Finance	5793-AEB	1000										GB30-6000	Controller System	05H
Finance	Info Syst for Attny - Client Finance Mgt	5793-AED	2250										GB30-6000	Controller System	05H

Keyword	Program Title	Number	DTC	ILC	MLC	DSO	DSI	DSH	MLP	MML	Mo	MoreInfo	Environment	TPLS
Finance	Info Syst for Attny - Law Firm Finance	5793-AEP	2860									.GB30-6001	Contrlr+Client Fin	05H
Finance	Info Syst for Attny - Client Finance Mgt	5793-AEQ	6400									.GB30-6001	Controller	05H
Finance	Installment Loan Accounting Banking	5726-F14	4100									.G560-0050	System/34	11X
Finance	Savinas Accounting Banking	5726-F13	3550									.G560-0050	System/34	11X
Finance	3600 Host Support Finance Communication	5744-CA3	nc									GC27-0006	OS/VS	NO55
Finance	3600 4700 Finance Communication	5726-5S1	02 6200			254	4650	190				0580-0295	6010,6513,6557,6510	15A
Finance	4700 Finance System - Applic Map Genertr	5668-934	21000			1495	18900		48	77			5668-969+5748-XXH	15K
Finance	4700 Finance System - Controller Manager	5668-933	1300						38	61		GC31-0506	5668-989+5668-934	15K
Finance	4700 Finance System - Host Support 1.5	5668-989				2070	647	1555	484	181	290	GC31-2019	MV5, XA, VS, SSX	15K
Finance	4700 Finance System - Adv Branch Control	5799-BQY	800										OS/VS, VSE+5668-969	15E
Finance	4700 Finance System - Format Distributn	5799-BQZ	11000				979						5668-989+5799-BQY	15E
Finances	Assistant Home Solutions	6024-150	69									.G520-3917	PC, XT, PCjr, PPC	05Z
Financial	Admin System for Colleges/ Financial Aid	5796-PHZ	8800									.G320-9194	System/38	15H
Financial	Client & Lawyer Financial System	6187-248	975									.GB30-2037	XT, AT	05Y
Financial	Client and Lawyer Financial	6187-266	100										PC	05Y
Financial	Client Account & Financial Reporting Sys	5726-C21	4100			182						.GH30-0230	System/34	11C
Financial	Client Account & Financial Report Sys II	5726-C22	7400			280	5550	196				.GH30-0230	System/34	11X
Financial	Client Financial Management	5793-AAZ	10830									.GB30-2151	5793-ABZ	05X
Financial	Client Financial Management Series 800	5793-ACH	4950									.GB30-2415	System/36+5793-ABZ	05H
-Financial	Coll & Univ Business Sys- Financial Acct	5796-RHT	6380									.GB30-1747	System/34	15X
-Financial	College Business Sys Financial Acctg	5796-RQE	7150									.GB30-2181	System/36	15X
Financial	Financial Analysis	5727-M7H	6000			300	5280					.GH30-9004	CAS5	15E
Financial	Financial Applications Bridge - Retail	5726-XA7	5400			188						24. GH30-0136	System/34	15E
-Financial	Financial Desk Calculator	5796-ZEL	352									.GB30-2093	System/38	15X
Financial	Financial Desk Calculator	5796-ZGN	319									.GB30-2281	System/36	15X
Financial	Financial Information System Online	5798-CYB	10390			409						.GB21-2367	D05/VS/VSE+5798-CYC	15X
Financial	Financial Information System	5798-CYC	24880			984						.GB21-2364	D05/VS/VSE	15X
Financial	Financial Management System	5665-309				10110	1815	75801360	280	448		GH19-2274	MV5, XA, IMS, DB+COBOL	25K
Financial	Financial Management System	5666-263				3090	1180	2315	888	125	201	GH19-6196	VSE+DL/T+COBOL	25K
-Financial	Financial Management System	5796-ZFL	13200									.GB30-2276	System/34	15X
-Financial	Financial Planning and Modeling	5796-ZFD	2970									.GB30-2249	System/38	15X
-Financial	Financial Planning and Modeling	5796-ZGN	2530									.GB30-2251	System/36	15X
-Financial	Financial Planning and Report Generating	5796-ZHT	385									.GB30-2340	UCSD p-System tm R/D	15X
-Financial	Financial Planning System	5798-CFX	4770			434						12. GB21-1705	VM/CMS with APL/CMS	11H
-Financial	Financial Planning System	5798-CXP	4645									.GB21-2335	MV5+VSAPL	15H
Financial	Financial Planning System II	5798-DCN	6110			263						.GB21-2622	VM	15X
Financial	Financial Services Terminal Support	5799-ARD				622						GH20-4531	D05/VS CICS/VS	11C
Financial	Financial Services Terminal Support	5799-ARE				795						GH20-4522	CICS/OS/VS	11C
-Financial	General Ledger & Financial Acctg	5798-RFH	1815			165						12. GB30-1673	System/34	15X
Financial	Interactive Financial Planning System	7798-OPT	varies										IBM Information Net	V05F
Financial	Law Firm Financial Management	5793-ABA	4800									.GB30-2151	5793-ABZ	05X
Financial	Law Firm Financial Management Series 800	5793-ACJ	2200									.GB30-2415	System/36+5793-ABZ	05H
Financial	Law Firm Financial System	6187-250	450									.GB30-2037	PC, XT, AT	05Y
Financial	Law Firm Financial Management	6187-268	100										PC	05Y
Financial	Lawyer Financial Management	5793-ABB	3870									.GB30-2151	5793-AAZ+ABZ	05X
Financial	Lawyer Financial Management Series 800	5793-ACK	1650									.GB30-2415	S/36+5793ACH+ABZ	05H
+Financial	MAPICS II Financial Analysis Release 1	5714-M7H	6900				6070					.GB30-3279	System/38	15E
Financial	Office System - Financial Schedules	5793-ABN	2640									.GB30-2164	5793-ABZ	05X
Financial	School - Financial Management	5796-ZFY	15950									.GB30-2268	System/36	15H
Financial	Schools Financial Accounting System	5796-ZNA	8000									.GB30-6002	System/36 PC	15H

Keyword	Program Title	Number	OTC	ILC	MLC	DSO	DSI	DSM	MLP	MML	Mo	MoreInfo	Environment	TPLS
+Financial	Student Financial Tracking	5796-TCA	6750									.G320-9506	System/36	15I
Financial	4730 Financial Application Extension	5799-BZR	23000										CICS	15X
+Financial	4730 Financial Application Extension IMS	5799-CJN	45000										MVS	15H
-Financial	Financial Planning and Report Generating	5796-ZHT	385									.GB30-2340	UCSD p-System tm R/D	15X
Financial-	Financial- Open Item Acctg A/R A/P Rel 3	5668-969	9855		448							.GH20-2467	CICS+IMS+PL/I	15B
Financial-	Financial- Payment Processing A/P Rel 3	5668-970	6820	562	310							.GH20-2467	CICS+IMS+PL/I	15B
Financial-Posti	Financial-Posting & General Ledger Rel 3	5668-967	22220		1010							.GH20-2467	CICS+IMS+PL/I	15B
Financial-Statu	Financial-Status P&L Balance Sheet Rel3	5668-968	5100		232							.GH20-2467	CICS+IMS+PL/I	15B
Fine	MICR Document Fine Sort	5798-BCN	2210		201							12.GB21-1327	DOS/VS	11H
Fine	3898 DOS/VSE Offline Fine Sort II	5798-CFD/01			88							12.GB21-1662	9560	15H
Fine	3898 Online Fine Sort Enhancements	5796-AVF	185									12.G320-6329	5798-CRC and CPDS	15H
Fine	3898 Online Fine Sort - CPDS	5798-CRC	10890		990							12.GB21-2170	OS/VS	15H
Fine	3898 Online Fine Sort - DOS/VS	5798-CHR	10210		929							12.GB21-2276	DOS/VS DOS/VSE Rel	15H
Finite	CAEDS (R) Finite Element Solver	5796-BDM	26470	3655	941	19800	2400	620				G520-3935	5796-BBZ+3277GA,3251	15E
+Finite	CAEDS Graphics Finite Element Modeler 1.	5669-289	8940										RT	05H
+Finite	CAEDS Graphics Finite Element Modeler	5713-AAD	varies		600								Base	VIUE
+Finite	CAEDS Integrated Finite Element Solver	5713-AAE	varies		485								Base	VIUE
Finite Element	CAEDS (R) Graphics System	5796-BBZ	49700	3275	1655	34790	23001100					GE20-0771	MVS,VM+3250/5080	15E
Firm	Fire Protection Module	5710-RTX	1100									.GB30-2450	5710-RTR	15H
Firm	Info Syst for Attny - Law Firm Finance	5795-AEB	1000									.GB30-6000	Controller System	05H
Firm	Info Syst for Attny - Law Firm Finance	5795-AEP	2860									.GB30-6001	Contrlr+Client Fin	05H
Firm	Law Firm Financial Management	5795-ABA	4800									.GB30-2151	5795-ABZ	05X
Firm	Law Firm Financial Management Series 800	5795-ACJ	2200									.GB30-2415	System/36+5795-ABZ	05H
Firm	Law Firm Financial System	6187-250	450									.GB30-2037	PC,XT,AT	05Y
Firm	Law Firm Financial Management	6187-268	100										PC	05Y
Firm	Law Firm Library Management	5795-ABJ	6270									.GB30-2160	5795-ABZ	05X
Five	Cluster Program - Five Pack	6024-182	439									G520-3917	PC,PCjr,PPC,XT	05Z
+FIX	THE FIX tm w/EPROM for CGA/EGA	5793-AGX	2100									GB30-2037	Industrial PC	05Y
+FIX	THE FIX tm with EPROM for C/GA	5793-AGQ	4500									GB30-2027	Industrial PC	05Y
+FIX	THE FIX tm with EPROM for EGA	5793-AGQ/01	4500									GB30-2027	Industrial PC	05Y
+FIX	THE FIX tm Runtime w/EPROM for CGA/EGA	5793-AGW	2675									GB20-2037	Industrial PC	05Y
+FIX	THE FIX BASIC Data Base Access	5795-AGQ/13	395									GB30-2027	6595	05Y
+FIX	THE FIX BASIC Data Base Access	5795-AGW/01	395									GB20-2037	6595	05Y
+FIX	THE FIX C Language Data Base Access	5795-AGQ/14	395									GB30-2027	6596	05Y
+FIX	THE FIX C Language Data Base Access	5795-AGW/02	395									GB20-2037	6596	05Y
+FIX	THE FIX Device Driver for IBM DACA	5795-AGQ/05	795									GB30-2027	5793-AGW	05Y
+FIX	THE FIX Device Driver for ACRO-900 tm	5795-AGQ/06	795									GB30-2027	5793-AGW	05Y
+FIX	THE FIX Device Driver for PLC-2 tm	5795-AGQ/07	795									GB30-2027	5793-AGW	05Y
+FIX	THE FIX Device Driver for DT 2808	5795-AGQ/08	795									GB30-2027	5793-AGW	05Y
+FIX	THE FIX Device Driver for MODBUS tm	5795-AGQ/09	1095									GB30-2027	5793-AGW	05Y
+FIX	THE FIX Device Driver for OPTOMUX tm	5795-AGQ/10	795									GB30-2027	5793-AGW	05Y
+FIX	THE FIX Eng Devt with EPROM for C/GA	5795-AGQ/02	2100									GB30-2027	Industrial PC	05Y
+FIX	THE FIX Eng Devt with EPROM for EGA	5795-AGQ/03	2100									GB30-2027	Industrial PC	05Y
+FIX	THE FIX Historical Trending	5795-AGQ/16	650									GB30-2027	6598	05Y
+FIX	THE FIX Historical Trending	5795-AGW/05	650									GB20-2037	6598	05Y
+FIX	THE FIX Online Report Package	5795-AGQ/15	250									GB30-2027	6593	05Y
+FIX	THE FIX Online Spreadsheet Interface	5795-AGW/03	250									GB20-2037	6597	05Y
+FIX	THE FIX Online Report Package	5795-AGW/04	150									GB20-2037	6593	05Y
+FIX	THE FIX OEM Toolkit	5795-AGQ/11	1250									GB30-2027	5793-AGW	05Y
+FIX	THE FIX Runtime with EPROM for EGA	5795-AGQ/04	2675									GB30-2027	Industrial PC	05Y

Keyword	Program Title	Number	OTC	ILC	MLC	DSQ	DSI	DSM	HLP	HML	Mo	MoreInfo	Environment	TPLS
+FIX	THE FIX User's Guides Set	5793-AGQ/12	125									GB30-2027	5793-AGW	05Y
-Fixed	Fixed Asset Accounting & Control	5798-NQF			161						12	GB30-1156	System/34	15H
-Fixed	Fixed Asset Accounting & Control	5798-RJG	2640									GB30-1790	Replaced by 5798-RWT	15X
-Fixed	Fixed Asset Accounting & Control II	5798-RJH	2310									GB30-1787	System/34	15X
Fixed	Fixed Asset Accounting & Control System	5798-RPH	2750									GB30-2221	System/36	15X
+Fixed	Fixed Asset Accounting and Control System	5798-RRT	2800									GB30-6010	System/38	15H
+Fixed	Fixed Asset Acctg - Upgr from 5798-RJG	5798-RWT/01	600									GB30-6010	4408,9049	15H
Fixed	Fixed Disk Organizer (Feature 4111)	6026-111	55									0520-5917	PC,XT	05Z
Fixed	School - Fixed Asset Inventory System	5796-ZOB	3960									GB30-2268	5796-ZFY	15H
+Fixed	SOLOMON III tm Fixed Assets	5669-095	995									SV21-8061	General Ledger	05Z
FLEET	FLEET MAINT tm	5793-ACH	3950									GB30-2037	5531,7531,7532	05Y
Flight	Flight Simulator tm	6871-290	49									GB30-2037	PC,PCjr	05Y
-Floor	DPPX Plant Floor Collect & Lot Tracking	5798-DFG	3750		341						12	GB21-2881	DPPX+3640	15H
Floor	DPPX 3640 Shop Floor Control System	5796-BBR			345						12	G520-6432	DPPX	15H
FLSF	Font Library Service Facility	5668-890	2500							36	58	GC33-6165	ISPF+4250,3820	15K
-Folds	Color Text Presentation Facility	5798-DMZ	1210									GB21-3086	3279+GDDM+5748-AP1	15X
Folds	Overhead Express tm	6187-191	195									GB20-2037	PC,XT,3270-PC,AT	05Y
Folds	SIDEWAYS tm	6187-192	70									GB20-2037	PC,XT,3270-PC,AT	05Y
+Follow-up	Auto Dealer - Customer Follow-up	5796-ZPE	3000									GB30-6013	System/36	15H
Font	Characters for Mathematics and Science	5771-ACH	960									G520-0004	CDPF	15E
Font	Font Library Service Facility	5668-890	2500							36	58	GC33-6165	ISPF+4250,3820	15K
Font	Helvetica tm - Language Extensions	5771-ACF	4500									G520-0004	CDPF	15E
Font	Helvetica Condensed and Expanded tm	5771-ACB	1120									G520-0004	CDPF	15E
Font	ITC Souvenir tm Version 2	5771-ACC	960									G520-0004	CDPF	15E
Font	ITC Souvenir tm Upgrade from Ver 1 to 2	5771-ACC/01	320										4522	15SE
Font	Monotype Bodoni Cyrillic tm	5771-ACR	3000									G520-0004	CDPF	15E
Font	Monotype Garamond(R) Language Extensions	5771-ACH	3000									G520-0004	CDPF	15E
Font	Monotype Levenin tm and Helvetica tm	5771-ACK	1500									G520-0004	CDPF	15E
Font	Monotype Old Eng Text & New Berolina tm	5771-ACY	3000									G520-0004	CDPF	15E
Font	Monotype Peninim,Alachsoni,Times N Roman	5771-ACJ	3000									G520-0004	CDPF	15E
Font	Monotype Rockwell(R) Language Extensions	5771-ACG	3000									G520-0004	CDPF	15E
Font	Monotype Times New Roman Cyrillic tm	5771-ACQ	3000									G520-0004	CDPF	15E
Font	Monotype Times New Roman Language Extens	5771-ACX	3000									G520-0004	CDPF	15E
-Font	MANYFONT Text Processing Type Faces	5796-PPE	1450		132						12	G520-6634	DCF	15H
Font	Oron tm and Univers (R)	5771-ACL	1500									G520-0004	CDPF	15E
Font	Typewriter and Pi Version 2	5771-ADH	1100									G520-0004	CDPF	15E
Font	Typewriter and Pi Upgrade from Ver1 to 2	5771-ADH/01	310										4518	15SE
Font	Univers Condensed tm	5771-ACA	640									G520-0004	CDPF	15E
Font	Univers Cyrillic tm	5771-ACP	3000									G520-0004	CDPF	15E
Font	3812 Pageprinter Font Management System	6466-982	375									G520-0817	XT,AT+10MB	05H
Font	4250 ITC Avant Garde Gothic tm	5771-AAA	640									G520-0004	CDPF (5668-997)	15E
-Font	6670 Mod II Font Editing System	5785-FAM	880									GB21-3068	05/VS,VM	15X
Fonts	APL2 Fonts (Source or Object)	5771-ADB	160									0544-3088	PSF+3800/20/3812	21E
-Fonts	ATMS II Multiple Fonts for the 3800	5798-CRH	2110		192						12	GB21-2184	05/VS+ICIS/VS	15H
Fonts	Data Fonts (Source or Object)	5771-ADA	160									0544-3088	PSF+3800/20/3812	21E
+Fonts	3812 Fonts - Pi and Specials	5669-163	640										3812 Font Mgt System	05H
+Fonts	3812 Fonts - Sonoran Serif	5669-161	640										3812 Font Mgt System	05H
+Fonts	3812 Fonts - Sonoran Sans Serif	5669-162	640										3812 Font Mgt System	05H
+Fonts	6670 Fonts Library	5799-BGK	25										MVS	05C
Fonts	6670 Fonts Library	5799-BGL	25										VSE	05C

Keywords - Alphabetic Sequence

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Codes Explained in Appendix B



Keyword	Program Title	Number	OTC	ILC	MLC	DSO	DSI	DSH	MLP	MML	Mo	MoreInfo	Environment	TPLS	
Fonts	6670 Fonts Library	5799-BGN	25										S/34,S/38,8100,S/36	05C	
Fonts	6670 Fonts Library	5799-BGQ	25										VM	05C	
Food	Accounts Receivable Food Distributors	5726-D66	1815		95							.GH30-0156	System/34	11X	
Food	Billing Food Distributors	5726-D65	2640		137							.GH30-0156	System/34	11X	
Food	<del>DMAS II Acct Rec Enhance - Food Distrib</del>	<del>5798-NXZ</del>	<del></del>		<del>138</del>							12.GB30-1340	System/34	15H	
Food	DMAS II Billing Enhance - Food Distrib	5798-NXY			207							12.GB30-1340	System/34	15H	
Food	Inventory Control Food Distributors	5726-D67	2365		122							.GH30-0156	System/34	11X	
Food	Sales Analysis Food Distributors	5726-D68	2150		95							.GH30-0156	System/34	11X	
+Force	Investigating Gravitational Force	6024-404	75									0520-1107	PC,PCjr,XT,AT+color	05Z	
Forecasting	Consumer Goods System - Forecasting	5734-B33	5320		242							.GH20-4409	05/MPT/MVT/VSL/V52	11C	
Forecasting	Consumer Goods System - Forecasting	5734-B32	5320		242							.GH20-0722	D05,D05/V5	11C	
Forecasting	COPICS Inventory Planning Forecasting II	5798-DCR	8575		259							.GB21-2650	D05/V5E,05/V5 DL/I	15E	
Forecasting	Forecasting	5727-M7L	11000		550	9680						.GH30-9804	CASS	15E	
-Forecasting	Forecasting & Time Series Analysis - APL	5796-PFX	4620		420							12.G320-5664	APL5V,APL/CMS,VSAPL	11H	
Forecasting	Inventory Forecasting & Replenishment II	5798-DDR	15110		687							24.GB21-2695	05/V5,D05/V5E	15H	
-Forecasting	Inventory Forecasting for Manufacturers	5798-RDC	4840		440							12.GB30-1532	System/34	15H	
Forecasting	Inventory Forecasting for Manufacturers	5798-RFR	6600		300							.GB30-2187	System/36	15X	
+Forecasting	MAPICS II Forecasting Release 1	5714-M7L	12650			11132						.SB30-3402	System/38	15E	
Foreground	DCF Foreground - CMS TSO ATMS III	5748-XX9/01		180	60							GH20-9158	6043,2107	15E	
Format	CPS Format / Print	5799-TBA	72		3							24.SC34-1564	Series/1	15C	
Format	DPPX DPS Format Management Feature	5660-264/02	1900		74	1615		63	18	29			9520,9521,9526,9527	15K	
Format	Format Design Aid	5798-RCR	660									.GB30-1548	5280 Data System	15H	
-Format	IMS/VS Message Format Services Training	5798-CKY	3190		242							.GB21-1933	IIS,IIPS	1EH	
-Format	3800 Format II	5798-DAC	847		77							12.GB21-2496	05/V5	15H	
Format	4700 Finance System - Format Distributn	5799-BQZ	11000		979								5668-989+5799-BQY	15E	
Format	4700 Format Distribution Services V2	5799-BZD	16500		1470								4700 Host Support	15E	
+Formation:	Theory Formation: Reflections & Patterns	6024-471	75										6520-1107	PC,XT,AT,PCjr+color	05Z
Formatted	CICS/VS Formatted Dump Online II	5798-DJX	2640										.GB21-2963	CIC3/V5	15X
Formatter	ATMS III Formatter	5740-XYL/01	11990		545							.GH20-2404	6137,6237	25B	
Formatter	ATMS III Formatter	5746-XXU/01	11990		545							.GH20-2404	6104,6168,6105	25B	
Formatter	SCRIPT Mathematical Formula Formatter	5798-BPH	6600		300							.G320-9189	4250/MVS or VM+DCF	15H	
Formatter	STAIRS Inmut Formatter	5740-XY9/02	6760		262							.GH12-5124	6109,6232	25B	
-Formatting	3800 Page Formatting Service	5796-AWE	3890		295							12.G320-6067	05/V5	15H	
Formatting	DPPX Distb Document Formatting Facility	5785-RAA	1980									.G320-0355	8100	15X	
+Formatting	Page Printer Formatting Aid/VM	5664-199	2730		105							6520-4000	VM/3800/3820	25M	
+Formatting	Page Printer Formatting Aid Release 1	5665-351			105							6544-3181	MVS,XA+3800-III,3820	11E	
+Formatting	Page Printer Formatting Aid Release 1	5666-327		250	75							6544-3088	VSE	21K	
+Formatting	XENIX tm Text Formatting System 2.0	59X9-941	199									SV21-8080	XENIX 2.0 on AT	05Z	
Forms	Forms / Passbook Printer - 4720 FCS	5799-BJE	1500										D05/V5E,05/V5+3600	15L	
+Forms	Forms Management System Release 1	5732-007	4370									SC34-0671	System/88	15M	
-Forms	3800 Forms Utility	5798-CMH	2420		220							12.GB21-2287	05/V5, PL/I	15H	
Formula	SCRIPT Mathematical Formula Formatter	5798-BPH	6600		300							.G320-9189	4250/MVS or VM+DCF	15H	
FORTRAN	See yellow pages 4-84 ff.	0000-012	nc											NO5C	
+FORTRAN subrout	IMSL Library	5669-107	3500										RT AIX	05Y	
FORTRAN/VS	CMS/Extended Data Array Capability 1.1	5798-DWA	23000										.SH20-6958	VM/XA Migration Aid	25H
+Forward	Integrated Catalog Forward Recovery Util	5798-DXQ	4500										.G320-9501	MVS,XA	15H
-Forward	5520 Documents - Host Store & Forward	5798-RHA	12100		1100							12.GB30-1690	TCAM, VTAM	15X	
Foundation	Association Management	5798-RNX	550									.GB30-2245	Displaywriter	15X	
Foundation	Educational Fund-Raising	5798-RNY	550									.GB30-2246	Displaywriter	15X	
Foundation	Fund Raising/Development - Trade Assn	5796-ZJB	3300									.GB30-2352	5796-ZHZ	15H	

Keyword	Program Title	Number	OTC	ILC	MLC	DSO	DSI	DSM	MLP	MML	No	MoreInfo	Environment	TPIS
Foundation	General Donor Fund-Raising	5798-RNW	550									.GB30-2196	Displaywriter	1SX
-Foundation	Medical Fund Raising	5796-PXD	385									.G320-0351	Reportpack	1SX
Foundation	Membership Data Base	5796-ZJE	7700									.GB30-2401	System/36	1SX
+Four	BASIC Conversion Aid from BASIC Four	5798-DMB	3000									.G320-0830	System/38	1SH
Fourier xforms	HAG Xm FORTRAN PC50 Library	6187-277	365									.GB30-2037	PC,XT,AT,RT	05Y
-FPS	Financial Planning System	5798-CXJ	4770		434						12.	.GB21-1705	VM,CMS with APL/CMS	11H
-FPS	Financial Planning System	5798-CXP	4645									.GB21-2335	MVS/VSAPL	1SH
Frame	CAEDS (R) Frame Analysis	5796-AZA	20960	2085	695	15400	1380	460				GE20-0771	MVS/VM/5080/3250	1SE
Frame Analysis	CAEDS (R) Graphics System	5796-BBZ	49700	3275	1655	34790	23001100					GE20-0771	MVS,VM/3250/5080	1SE
Framework	Framework II tm	6187-185	695									.GB30-2037	PC,XT,3270-PC,AT,RT	05Y
Freddy's	Freddy's Rescue Roundup	6276-511	20									PC, XT, PCjr, PPC		05R
Free	Data Set & Free Space Manager	5796-PPN	1385		105							.G320-6654	MVS	1SX
-Freespace	VSAM Control Area Freespace Map Utility	5796-AYX	1185									.G320-6346	OS/VS	1SH
Freight	Motor Freight Revenue Accounting	5726-T21	8030		420							.GH30-0413	System/34	11X
French	DisplayWrite/36 French I Dictionary	5727-WP2/01	120			105						.G580-0454	4763,6064	1SA
French	DisplayWrite/36 French II (Canada) Dictn	5727-WP2/02	120			105						.G580-0454	4763,6064	1SA
French	DW/36 French I Dictionary	5727-WP7/02	90									.G580-0570	4787	05H
French	DW/36 French II Dictionary (Canada)	5727-WP7/03	90									.G580-0570	4787	05H
FriendlyWare	FriendlyWare (R) PC Introductory Set	6085-985	49									.GB30-2037	PC	05Y
FriendlyWare	FriendlyWare (R) PC Arcade	6871-361	49									.GB30-2037	PC	05Y
FRR II	IMS/VS Fast Reorganization Reload II	5798-DPR	3960									.G320-9201	IMS/VS	1SX
FSF	VM File Storage Facility	5798-DMY	1100									.GB21-3084	VM	1SH
FSF	3600 4700 Finance Communication	5726-SS1/02	6200			254	4650	190				.G580-0295	6010,6513,6557,6510	1SA
FTI	VSPC Migration Aids to TSO/E	5798-DPE	2145									.G320-9166	5665-283	1SX
FTP	File Transfer Program Version 2.2	5668-932	11250	1500	450	8437	1125	337	90	144		.GH12-2151	VM,VSF+VTAM	1SX
FTP	File Transfer Program Version 1	5748-XE6	1415		55	1060		40	5	8		.GH12-5129	Replaced by Version2	1SX
Fulfillment	Membership Subscription Fulfillment	5796-ZJH	3850									.GB30-2401	5796-ZJE	1SX
Fulfillment	Subscription Fulfillment Trade Assn	5796-ZJC	3850									.BG30-2352	5796-ZHZ	1SX
-Full	COBOL - 3270 Full Screen Support	5796-ATK	1570		143						12.	.G320-6067	TSO	1SH
Full	Extended Editor and Full Screen Manager	5796-PLY	1685		85							.G320-6168	VSAPL with VM, TSO	1SE
-Full	EDX 3101 Full Screen Subroutines	5798-RJM	269									.GB30-1845	Series/1	1SX
Full	Graphpak Full Screen Interface	5796-PPH	858		65							.G320-6642	OS/VS,VM,VSAPL	1SH
Full	IMS/DBT Full Function Space Mgt Utility	5668-856/01	5555									.4738		2SE
-Full	3101 Full Screen Control Program Support	5798-RFF	310									.GB30-1639	Series/1	1SH
Full	5210 Full Function Support	5798-DTA	3850									.G320-9254	VM/5210G Printer	2SH
Functions:	Cell Functions: Growth & Mitosis	6024-316	65									G520-1107	PC,PCjr,XT,AT,PPC	05Z
Functions:	Cell Functions: Growth & Mitosis (BioSer	6024-391	295									G520-1107	PC,PCjr,XT,AT,PPC	05Z
Fund	Fund Raising/Development - Trade Assn	5796-ZJB	3300									.GB30-2352	5796-ZHZ	1SH
-Fund	Medical Fund Raising	5796-PXD	385									.G320-0351	Reportpack	1SX
Fund	Membership Fund Raising/Development	5796-ZJG	3300									.GB30-2401	5796-ZJF	1SX
-Fund Raising	College Business Sys Student Records	5796-RGF	7150									.GB30-2181	System/36	1SX
Fund-Raising	Educational Fund-Raising	5798-RMY	550									.GB30-2246	Displaywriter	1SX
Fund-Raising	General Donor Fund-Raising	5798-RHM	550									.GB30-2196	Displaywriter	1SX
Fundamentals	CMS Fundamentals II	5798-DGJ	1980		360	120						.GB21-2855	IIS, IIPS	1EX
Fundamentals	Metric I - Fundamentals of Decimals	6871-487	49									.GB30-2037	PC,XT,PCjr	05Y
Funds	Funds Allocation System	5796-PVZ	27000									.G320-9222	MS/PLI Transients	2SH
Futura	4250 Futura tm	5771-AAH	960									G520-0004	CDPF (5668-997)	1IE
GAM/SP	Graphics Access Method / System Product	5668-978	12000		503	9000		377				GC53-0125	MVS,XA,VM	1SL
Game	The World's Greatest Baseball Game tm	6276-620	25									PC,XT,jr,PPC		05R
Game age 2-10	Gertrude's Secrets	6024-097	49									G520-3917	PC,XT,PCjr+Color	05Z

Keywords - Alphabetic Sequence

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Codes Explained in Appendix B

Keyword	Program Title	Number	OTC	ILC	MLC	DSO	DSI	DSM	HLP	MML	Mo	MoreInfo	Environment	TPLS
Games	Arithmetic Games Set 1	6024-024	60										G520-3917 PC,PCjr	05Z
Games	Arithmetic Games Set 2	6024-025	60										G520-3917 PC,PCjr	05Z
Games	Bumble Games tm (Feature 4094)	6024-094	45										G520-3917 PC,PCjr,XT+color	05Z
Games	Writing to Read	6360-700	725										G520-1107 PCjr+Speech attachmt	05Z
Gantt chart	Project Scheduler 5000	6871-485	285										GB30-2037 PC,XT	05Y
Garamond	4250 Monotype Garamond tm	5771-AAJ	640										G520-0004 CDPF (5668-997)	11E
Garamond R	Monotype Garamond(R) Language Extensions	5771-ACH	3000										G520-0004 CDPF	15E
Garde	4250 ITC Avant Garde Gothic tm	5771-AAA	640										G520-0004 CDPF (5668-997)	11E
*Gardner-Denver	Circuit Board Design - Circuit Pack 4.1	5796-PRK	48600	8355	2785		58351945						G320-9175 VM+5080/3250/3277GA	115E
Garment	ACS On-Line / IPCS Integration	5796-ZHK	3300										GB30-2258 System/36	15X
Garment	ACS On-Line System tm	5796-ZFG	49500										.GB30-2258 System/36	15X
Garment	Integrated Production Control System	5796-ZFH	19250										.GB30-2261 System/36	15X
+GCLISP (R)	Golden Common LISP (R)	6205-279	495										.GB30-2037 PC,XT,AT	05Y
GDDM	Batch Terminal Simulator	5668-948	9662	1050	394	7245	773	295	28	46			.GH20-5522 IMS/VS & TSD	15K
GDDM	Decision Support / VSE 1.1	5666-311	3075						164	19	31		GC33-6212 SSX,VSE	23K
GDDM	Financial Management System	5665-309		10110	1815		75801360	280	448				GH19-6274 MVS,XA+IMS/DB+C0B0L	25K
+GDDM	GDDM Graphic Subroutines	5798-DXR	550										G320-9504 System/36	15E
GDDM	GDDM Graphics Data File - Color Support	5668-860	1100										GA23-0186 MVS,VM+371/2/3/5	15H
-GDDM	GDDM Graphics Productivity Option	5796-PRZ	1320										G320-9142 5748-XXH	15X
GDDM	GDDM Interactive Map Definition	5748-XXH/02		767	214		575	161	22	35			GC33-0100 6084,2101,6503,2301	15K
GDDM	GDDM Presentation Graphics Feature	5748-XXH/01		767	162		575	121	36	58			GC33-0100 6049,2102,6500,2302	15K
GDDM	Information Development / VSE 1.1	5666-323	1800						90	17	27		GC33-6216 CSP+GDDM	15K
GDDM	Interactive System Productivity Facil2.2	5665-319		690	218		517	163	30	48			GC34-2136 MVS	15K
-GDDM	XY/750 Plotter Support for GDDM	5798-DMK	1540										GB21-3054 TSD,CMS	15H
GDDM	6670 II Image Printing System	5785-FAZ	660										G320-0532 Font files,edit+PL/I	15X
GDDM/Base	Graphic Data Display Manager	5748-XXH		767	159		575	120	36	58			GC33-0100 VM,CICS,IMS,MVS	15K
GDDM/IMD	GDDM Interactive Map Definition	5748-XXH/02		767	214		575	161	22	35			GC33-0100 6084,2101,6503,2301	15K
GDDM/PGF	GDDM Presentation Graphics Feature	5748-XXH/01		767	162		575	121	36	58			GC33-0100 6049,2102,6500,2302	15K
GDRF	CAEDS (R) Modeler	5796-BFR	77100	7710	2570	53970	54001800						GE20-0771 VM,MVS+5080+GAM	15E
GDRF	Graphical Display and Query Facility 1.3	5668-905	20000	1365	455								MVS,VM+GDDM+3270	15E
+GEM	GEM tm Collection	6205-284	199										GB30-2037 PC,XT,AT,KB/mouse	05Y
+GEM	GEM tm Desktop	6205-285	50										GB30-2037 PC,XT,AT,KB/mouse	05Y
+GEM	GEM tm Draw	6404-013	249										GB30-2037 PC,XT,AT,KB/mouse	05Y
+GEM	GEM tm Graph	6404-012	249										GB30-2037 PC,XT,AT,KB/mouse	05Y
+GEM	GEM tm Wordchart	6404-006	149										GB30-2037 PC,XT,AT,KB/mouse	05Y
Gen	Business Management Series Gen Ledg Trng	6410-959	95										.GH30-9016 General Ledger	05G
Gen	Distributors Mat Acctg - Gen Ledger	5727-D47	2805			163	2105						.GH30-0696.CASS	15B
-Gen	Order Entry/Invoice to Gen Ledgr Interfc	5798-RTB	550										.GH30-2402 S/34+0rd Entry	15X
Gen	Order Entry/Invoice to Gen Ledgr Interfc	5798-RTC	525										.GH30-2402 S/36+0rd Entry	15X
Gen	Order Entry/Invoice to Gen Ledgr Interfc	5798-RTD	550										.GH30-2402 S/28+0rd Entry	15X
Gener	DPPK 3640 Interactive Transaction Gener	5640-267/01	8845			340	7510		289	52	83		GC31-0010 6002,6003,6012,6013	15K
-General Ledger	=MONEY=TRACK=	5796-ZFB	495										.GH30-2313 Displaywriter+UCSD-P	15X
General Ledger	Insurance Agency System	6024-065	2500										G520-3917 PC	05E
Generalized	Generalized Information System - VS	5740-XX7		1340			1005	92	147				GH20-9035 OS/VS	25K
Generalized	Generalized Information System	5799-ALX		589									GH19-0082 DOS/VS,DL/I	15X
Generalized	Generalized Performance Analysis Report	5798-DAA	1365	66									.GB21-2491 DOS/VSE	15E
Generalized	Generalized Trace Facility Analysis	5798-CQQ	2310	94									.GB21-2142 OS/VS, 5798-CPR	11E
-Generation	ACF Network Generation Aid	5798-DFF	1045										.GB21-2809 MVS,DOS/VSE	15X
-Generation	DMS/CICS Application Generation Feature	5740-XC5/01	11410			533	8560		347	54	88		.GH20-2195 4558,4560,6513,6577	15K
Generation	DMS/CICS Application Generation Feature	5746-XC4/01	7040			330	5280		246	51	82		.GH20-2195 6082,4538,6541,6501	15K

Keyword	Program Title	Number	OTC	ILC	MLC	DSO	DSI	DSH	MLP	MML	Mo	MoreInfo	Environment	TPLS	
+Generation	Overlay Generation Language/VM	5664-293	7670		295							G520-5102	VM	25M	
Generation	Overlay Generation Language Release 1	5665-308		801	267				88	141		G520-5023	MVS+3800,3820	21K	
Generation	Overlay Generation Language Release 1	5666-324		750	250				80	128		G544-3088	VSE+3800/3820	21K	
Generation	VSE/System Package - Generation 1.1.0	5666-297	46700		1970	42028		1775	402	643		GH20-5347	S/370,4300,303x,3083	15K	
-Generation	VSE/SP Generation - Partial Function	5799-BNC	11190		365	10068		330	402	643		GH20-5347	S/370,4300,303x,3083	15K	
-Generation	VTAM Configuration and Generation Aid	5798-CTL	1375		275						06	.GB21-2233	DOS/VS	01H	
Generation	3644 Parameter Table Generation Facility	5668-998	2400		78	1800		59	8	13		GC31-0009	DOS/VSE,OS/VS1	15K	
+Generator	BANCStar 4700 Generator	6430-788	4500										PC,XT,AT+4700	05E	
Generator	CPCS Sort Table Generator	5798-DNG	15200		600							.GB21-3104	MVS,VS1	15H	
-Generator	DMS Model-Based Application Generator	5798-DNA	2750									.GB21-3089	CICS/VS	15X	
Generator	DPPX/3644 Parameter Table Generator	5760-ED1	312		27	240		21	7	11		GC24-5179	DPPX	15X	
+Generator	Graphics Program Generator 3277GA/5080	5668-941		7000	1250							GH20-5620	VM,MVS+5799-AXX+FORT	15E	
-Generator	HDAM Randomizer Generator Extensions	5798-CXN	1140		104						12	.GB21-2347	5798-CQG OS/VS	11H	
-Generator	HDAM Sequential Random Generator	5798-CQG	2320									.GB21-2126	OS/VS2,MVS/XA	01H	
Generator	Matrix Generator Report Writer for MPSX	5734-ZMC	16100		641							.GH19-5012	OS/MT/MTI	11B	
+Generator	Medicon Hiring Diagram Generator	5793-AHF/01	500										Industrial PC	05Y	
+Generator	Medicon 484 Hiring Diagram Generator	5793-AHE/02	500										Industrial PC	05Y	
-Generator	MICR Program Generator	5798-RBE	759		69						12	.GB30-1476	System/34	15H	
+Generator	PCemas tm Report Generator	6187-160	695									.GB30-2037	PCemas	05Y	
Generator	PCS-ADS Application Execution System 2.0	5796-BCE	16500		589							.G320-6651	OS,DDS+CICS+DL/I	15E	
Generator	PCS-ADS Application Preparation Sys 1.1	5796-BCF	13650		487							.G320-6651	OS,DDS+CICS+DL/I	15E	
Generator	Routing Table Generator	5668-815	6000		300							.GH20-6787	PL/I+MVS,XA or VM	21E	
Generator	STAIRS/VS Thesaurus Generator	5799-AQL	4220		192							.GH20-1908	OS/VS+STAIRS	15C	
-Generator	UCSD p-System (R) Code Generator	5608-MA3	150									G552-0371	5608-MS2	15X	
Genet tm	EDX to General Electric Series 6 tm Supt	5719-THD	5000									GC34-0099	5719-CF1	15H	
+Genetics:	Mendelian Genetics: Inheritance	6024-408	65									G520-1107	PC,PCjr,XT,AT+color	05Z	
+Genetics:	Mendelian Genetics: Inheritance	6024-438	295									G520-1107	PC,PCjr,XT,AT+color	05Z	
Genetics:	Modern Genetics: Chromosomes & Coding	6024-345	65									G520-1107	PC,PCjr,XT,AT,PPC	05Z	
Genetics:	Modern Genetics: Chromosomes & Coding	6024-395	295									G520-1107	PC,PCjr,XT,AT,PPC	05Z	
-Genl	Construction Information - Genl Ledger	5796-ZAT	1705									.GB30-1728	Sys/23 Datamaster	11H	
Genl contractor	Interactive Cost Estimating - Base	5710-RTN	12650									.GB30-2450	System/36	15H	
Genl Contractor	Interactive Cost Estimating - Base	5710-RTR	12650									.GB30-2450	System/36	15H	
GENS644	DPPX/3644 Parameter Table Generator	5760-ED1	312		27	240		21	7	11		GC24-5179	DPPX	15X	
GENS644	3644 Parameter Table Generation Facility	5668-998	2400		78	1800		59	8	13		GC31-0009	DOS/VSE,OS/VS1	15K	
Geo-Facilities	Geo-Facilities Data Base Support	5799-BEB	44550		2025						36	.GH20-2482	IMS+5799-AYB	25B	
+Geo-Facilities	Graphics Program Generator 3277GA/5080	5668-941	44550		7000	1250						GH20-5620	VM,MVS+5799-AXX+FORT	15E	
Geo-Processing	Geo-Facilities Data Base Support	5799-BEB	44550		2025						36	.GH20-2482	IMS+5799-AYB	25B	
+Geo-Processing	Graphics Program Generator 3277GA/5080	5668-941	44550		7000	1250						GH20-5620	VM,MVS+5799-AXX+FORT	15E	
-Geographic	US Geographic Demographic System	5798-DJQ	2365									.GB21-3020	VM/CMS,MVS/TSO,GDDM	15X	
Geography	World Geography Facts	6187-201	150										PC	05Y	
+GEDINT	UNIRAS tm GEDINT	5669-110	1595										GEOPAK	05Y	
Geometry	CADAM (R) APT Source Geometry	5796-BDT	21000		1605	535	14000	1065	353				OS/VS+GAM	15E	
Geometry	CADAM (R) Geometry Interface Module	5796-ATJ	20730		3820	365	11840	2355	208			G320-6063	OS/VS,VM+GAM	15E	
Geometry	CADAM (R) 3D Mesh Geometry Module	5796-AHR	27510		2910	457	15730	3870	261			G320-6063	OS/VS,VM/CMS	05H	
Geometry	CADAM (R) 3D Surface Geometry Module	5796-AHT	12050		1285	215	6885	1250	123			G320-6063	OS/VS,VM/CMS	05H	
Geometry	CADAM Geometry Interface Version 2	5668-842	24000		4280	480	15400	2800	340			SH20-6491	5668-840	15E	
+Geometry	CAEDS (R) - CATIA (R) Geometry Transform	5796-TBN	4250									G320-0900	MVS,VM	15H	
+Geometry	CATIA (R) Solids Geometry 2.2 Unltd CSTU	5668-834		1725	575		12154050						CATIA Base	15E	
-Geometry	Numerical Geometry System - Basic	5785-EAH	33880		1540							24	.GB21-2608	MVS	15H
-Geometry	Numerical Geometry System - Advanced	5785-EAH	29040		1385							24	.GB21-2608	5785-EAH	15H

Keywords - Alphabetic Sequence

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Codes Explained in Appendix B

Keyword	Program Title	Number	OTC	ILC	MLC	DSO	DSI	DSM	HLP	MML	Mo	MoreInfo	Environment	TPLS
-Geometry	Numerical Geometry System APT-AC Bridge	5785-EAN	7260		330							24.GB21-2608	5785-EAH	15H
Geometry	Preparing for Geometry and Algebra	6024-307	55									G520-1107	PC,PCjr,XT,AT,PPC	05Z
+GEOPAK	UNIRAS tm GEOPAK	5669-109	6995										RASPAK/RASPAK SOLIDS	05Y
German	DisplayWrite/36 German Dictionary	5727-HP2/06	120			105							4763,6064	15A
German	DW/36 German Dictionary	5727-HP7/07	90									G580-0570	4787	05H
Gertrude's	Gertrude's Puzzles	6024-098	49									G520-1107	PC,XT,PCjr,PPC	05Z
Gertrude's	Gertrude's Secrets	6024-097	49									G520-3917	PC,XT,PCjr+Color	05Z
+Get	Get Set for Writing to Read	6024-468	295										PCjr+Speech attachmt	05Z
Get	Get Set for Writing to Read - Book Set	6024-469	6										6024468	05Z
+GGXC	Color Graphics Charting	4421-519	395									SC33-0223	3270-PC Graphics CP	05M
GH30-0738	Master Production Schedule Planning	5668-898	31500		1380							.GH30-0737	CICS+COBOL+IMS,DL/I	15E
+GIMAGE	UNIRAS tm GIMAGE	5669-112	2595										SEISPAK	05Y
GIS/VS	Generalized Information System - VS	5740-XX7			1340			1005	92	147		GH20-9035	05/VS	25K
GIS/VS	GIS/VS Advanced Query Feature	5740-XX7/01			419							GH20-9035	6012	25K
GIS/VS	GIS/VS Modify Feature	5740-XX7/03			207							GH20-9035	6018	25K
GIS/VS	GIS/VS Update & Create Feature	5740-XX7/02			885				663	58	93	GH20-9035	6015	25K
GKS	Graphical File System	6024-205	189									G520-1107	Graphics/Prof CRT	05Z
GKS ANSI	Graphical Kernel System	6024-203	319									G520-1107	PC,XT,PPC,AT+DOS 2.1	05Z
GML	General Markup Language Product Aid	5798-DKD	3045	337	131							.GB21-2978	5748-XX9	15X
GML	Graphics and Color / Script	5798-DMH	3080									.GB21-3074	PCF (Script)	15X
Goals	Defining Goals and Objectives	6871-529	113										PC	05Y
-GOLD	Graphic Online Diagram Display	5798-CMX	21780		990							24.G320-6059	MVS/TSO VM/CMS	15H
+Golden	Golden Common LISP (R)	6205-279	495									.GB30-2037	PC,XT,AT	05Y
GOLF'S	GOLF'S BEST tm	6187-241	50										PC	05Y
Goodness of fit	STAT/PC-LIBRARY tm	6187-271	440									.GB30-2037	PC,XT,AT,RT	05Y
Goods	Consumer Goods System - Allocation	5734-D32	3980		181							.GH20-4410	05/MFT/MVT/VS1/VS2	11C
Goods	Consumer Goods System - Forecasting	5734-D35	5320		242							.GH20-4409	05/MFT/MVT/VS1/VS2	11C
Goods	Consumer Goods System - Allocation	5734-D31	3980		181							.GH20-0721	DOS,DOS/VS	11C
Goods	Consumer Goods System - Forecasting	5734-D32	5320		242							.GH20-0722	DOS,DOS/VS	11C
Gothic	4250 ITC Avant Garde Gothic tm	5771-AAA	640									G520-0004	CDPF (5668-997)	11E
Gothic	6670 Fonts Library	5799-BGK	25										MVS	05C
Gould	EDX to Gould Medicom MICRO tm Controllrs	5719-TMB	5000									GC34-0099	5719-CF1	15H
Government	Government Reporting / Tracking Feature	5740-AMW/01			297							.GH20-2151	6126,6126	25B
Government	Government Reporting & Benefits Tracking	5746-AML/01	5760	1275	262							.GH20-2151	6080,4581,4601	25B
Govt	Public Budgeting & Accounting Appl Govt	5726-G21	12230		468	9175		350				.GH30-0229	System/34	11X
GPAP	General Performance Analysis Reporting	5798-CPR	1710		83							.GB21-2091	05/VS1, MVS, SVS	11E
GPAP/DOS	Generalized Performance Analysis Report	5798-DAA	1365		66							.GB21-2491	DOS/VSE	15E
GPAX	EDX General Purpose Automation Executive	5798-RCZ	6300		287							24.GB30-1565	Series/1	15H
+GPG Rel 2	Graphics Program Generator 3277GA/5080	5668-941		7000	1250							GH20-5620	VM,MVS+5799-AXX+FORT	15E
GPIB	General Purpose Interface Bus Adapter	6024-201	89									G520-1107	GPIB+DOS2+	05Z
GPSS	General Purpose Simulation System V	5734-XS2	1515		69							.GH20-0825	05,05/VS	11C
GPSS	General Purpose Simulation System V	5736-XS3	1515		69							.GH20-0826	DOS,DOS/VS	11C
-GPSS	General Purpose Simulation System	5796-PNN	3585		163							24.G320-6398	VM,CMS,MVS+PL/I	15H
-GPSS-APL	General Purpose Simulation System	5796-PJG	2175		99							24.G320-5745	5748-AP1	11H
+Grade	Reading for Meaning Series: Grade 2	6024-330	150									G520-1107	PC,XT,AT,PCjr,color	05Z
+Grade	Reading for Meaning Series: Grade 2	6024-384	675									G520-1107	PC,XT,AT,PCjr,color	05Z
+Grades	Math Concepts Series: Grades 1-2	6024-355	175									G520-1107	PC,XT,PCjr,AT 128k	05Z
+Grades	Math Concepts Series: Grades 3-4	6024-357	175									G520-1107	PC,XT,PCjr,AT 128k	05Z
+Grades	Math Concepts Series: Grades 1-2	6024-368	789									G520-1107	PC,XT,PCjr,AT 128k	05Z
+Grades	Math Concepts Series: Grades 3-4	6024-369	789									G520-1107	PC,XT,PCjr,AT 128k	05Z

Keyword	Program Title	Number	OTC	ILC	MLC	DSQ	DSI	DSM	MLP	HML	Mo	MoreInfo	Environment	TPLS
+Grades	Math Concepts Series: Grades 5-6	6024-417	879									6520-1107	PC,XT,PCjr,AT 128k	05Z
+Grades	Math Concepts Series: Grades 7-8	6024-419	879									6520-1107	PC,XT,PCjr,AT 128k	05Z
+Grades	Math Concepts Series: Grades 5-6	6024-427	195									6520-1107	PC,XT,PCjr,AT 128k	05Z
+Grades	Math Concepts Series: Grades 7-8	6024-429	195									6520-1107	PC,XT,PCjr,AT 128k	05Z
+Grades	Math Practice: Grades 1-2	6024-353	95									6520-1107	PC,XT,AT,PCjr+color	05Z
+Grades	Math Practice: Grades 3-4	6024-354	95									6520-1107	PC,XT,AT,PCjr+color	05Z
+Grades	Math Practice: Grades 5-6	6024-371	429									6520-1107	PC,XT,AT,PCjr+color	05Z
+Grades	Math Practice: Grades 1-2	6024-372	429									6520-1107	PC,XT,AT,PCjr+color	05Z
+Grades	Math Practice: Grades 5-6	6024-421	429									6520-1107	PC,XT,AT,PCjr+color	05Z
+Grades	Math Practice: Grades 7-8	6024-422	429									6520-1107	PC,XT,AT,PCjr+color	05Z
+Grades	Math Practice: Grades 5-6	6024-431	95									6520-1107	PC,XT,AT,PCjr+color	05Z
+Grades	Math Practice: Grades 7-8	6024-432	95									6520-1107	PC,XT,AT,PCjr+color	05Z
+Grades	Parts of Speech Series: Grades 3-4	6024-353	100									6520-1107	PC,XT,AT,PCjr+color	05Z
+Grades	Parts of Speech Series: Grades 5-6	6024-354	100									6520-1107	PC,XT,AT,PCjr+color	05Z
+Grades	Parts of Speech Series: Grades 3-4	6024-378	450									6520-1107	PC,XT,AT,PCjr+color	05Z
+Grades	Parts of Speech Series: Grades 5-6	6024-379	450									6520-1107	PC,XT,AT,PCjr+color	05Z
+Grades	Reading for Information: Grades 3-4	6024-358	125									6520-1107	PC,XT,AT,PCjr+color	05Z
+Grades	Reading for Information: Grades 5-6	6024-359	150									6520-1107	PC,XT,AT,PCjr+color	05Z
+Grades	Reading for Information: Grades 7-8	6024-360	150									6520-1107	PC,XT,AT,PCjr+color	05Z
+Grades	Reading for Information: Grades 7-8	6024-366	750150									6520-1107	PC,XT,AT,PCjr+color	05Z
+Grades	Reading for Information: Grades 3-4	6024-386	565									6520-1107	PC,XT,AT,PCjr+color	05Z
+Grades	Reading for Information: Grades 5-6	6024-387	675									6520-1107	PC,XT,AT,PCjr+color	05Z
+Grades	Reading for Meaning Series: Grades 3-4	6024-336	150									6520-1107	PC,XT,AT,PCjr+color	05Z
+Grades	Reading for Meaning Series: Grades 5-6	6024-337	150									6520-1107	PC,XT,AT,PCjr+color	05Z
+Grades	Reading for Meaning Series: Grades 7-8	6024-338	150									6520-1107	PC,XT,AT,PCjr+color	05Z
+Grades	Reading for Meaning Series: Grades 7-8	6024-364	675									6520-1107	PC,XT,AT,PCjr+color	05Z
+Grades	Reading for Meaning Series: Grades 3-4	6024-374	675									6520-1107	PC,XT,AT,PCjr+color	05Z
+Grades	Reading for Meaning Series: Grades 5-6	6024-375	675									6520-1107	PC,XT,AT,PCjr+color	05Z
+Grades	Spelling Series: Grades 1-2	6024-347	110									6520-1107	PC,XT,AT,PCjr+color	05Z
+Grades	Spelling Series: Grades 3-4	6024-348	110									6520-1107	PC,XT,AT,PCjr+color	05Z
+Grades	Spelling Series: Grades 5-6	6024-349	110									6520-1107	PC,XT,AT,PCjr+color	05Z
+Grades	Spelling Series: Grades 1-2	6024-380	495									6520-1107	PC,XT,AT,PCjr+color	05Z
+Grades	Spelling Series: Grades 3-4	6024-381	495									6520-1107	PC,XT,AT,PCjr+color	05Z
+Grades	Spelling Series: Grades 5-6	6024-382	495									6520-1107	PC,XT,AT,PCjr+color	05Z
+Grades	Vocabulary Series: Grades 3-4	6024-350	110									6520-1107	PC,XT,AT,PCjr+color	05Z
+Grades	Vocabulary Series: Grades 5-6	6024-351	110									6520-1107	PC,XT,AT,PCjr+color	05Z
+Grades	Vocabulary Series: Grades 7-8	6024-352	495									6520-1107	PC,XT,AT,PCjr+color	05Z
+Grades	Vocabulary Series: Grades 3-4	6024-376	495									6520-1107	PC,XT,AT,PCjr+color	05Z
+Grades	Vocabulary Series: Grades 5-6	6024-377	495									6520-1107	PC,XT,AT,PCjr+color	05Z
Grading	Education Information System - Grading	5796-PRX		960	276						24	6320-9139	5796-BAZ	15X
+Grading	Registration, Attendance & Grading	5796-TCJ	6750									.6320-9506	System/36	15I
Grading	Student Grading System	5796-ZNE	2500									.6830-6002	Student Mgt System	15H
+Graduate	Graduate Placement	5796-TCC	2250									.6320-9506	System/36	15I
+Grammar	Electronic Grammar (Parts of Speech)	6276-552	25										PC,XT,AT,PCjr	05R
+Graph	GEM tm Graph	6404-012	249									6830-2037	PC,XT,AT,KB/mouse	05Y
Graphi	CAMGraph Build/Display Enhanced Graphi	5793-AEY/03	4600									6830-2037	6507	05Y
-Graphic	Graphic Application Monitor - Interactiv	5785-DCJ	5860		533						12	6320-6659	5785-DCK	15X
Graphic	Graphic Data Display Manager	5748-XXH		767	159		575	120	36	58		6C35-0100	VM,CICS,IMS,MVS	15K
-Graphic	Graphic Online Diagram Display	5798-CHX	21780		990						24	6320-6059	MVS/TSO VM/CMS	15H
-Graphic	Graphic Subroutine Package	5796-PPR			90						24	6320-6627	VM/SP	15X

Keywords - Alphabetic Sequence

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Codes Explained in Appendix B

Keyword	Program Title	Number	OTC	ILC	MLC	DSO	DSI	DSH	MLP	MML	Mo	MoreInfo	Environment	TPLS
-Graphic	Graphic Support System	5785-DCK	5860		533						12	G320-6659	5785-DCK	15X
-Graphic	Graphic Training Aid	5796-AJY	8580		390							G320-6336	V51	15H
+Graphic	GDDM Graphic Subroutines	5798-DXR	550									G320-9504	System/36	15H
Graphic maps	Screen Definition Facility	5664-178		1685	294		1265	200	44	70		.GH19-6087	VM	15K
+Graphical	Graphical Data Display Mgr/ graphIGS 1.2	5668-792			500								GAM or GDDM	15E
Graphical	Graphical Display and Query Facility 1.3	5668-905	20000	1365	455								MVS,VM+GDDM+3270	15E
+Graphical	Graphical File System	5669-062	600									SV21-8060	RT AIX tm	05H
Graphical	Graphical File System	6024-205	189									G520-1107	Graphics/Prof CRT	05Z
Graphical	Graphical Kernel System	6024-203	319									G520-1107	PC,XT,PPC,AT+DOS 2.1	05Z
-Graphical	SMF Graphical Analysis Program	5796-AFP			200						12	G320-8127	OS/VS, MFT,MVT	11H
Graphics	Automated Information Management	5798-DRA	1265									G320-9215	System/36	15H
Graphics	ADRS II Business Graphics Feature	5796-PLN/02	1940		108							G320-6668	4697,4688	11E
Graphics	Business Graphics Utility	5714-GP1	2000		107	1760		94				GC09-1060	System/38	15E
+Graphics	Business Graphics Utilities/36	5727-BG1	800			704						G580-0454	S/36(5360/2)	15A
+Graphics	Business Graphics Utilities/36	5727-BG6	320			240						G580-0454	S/36_PC_5364	15A
Graphics	Business Graphics Utilities	5799-BHM	600									G580-0571	System/36	15X
Graphics	Business Graphics Utilities	5799-BTA	1550									G580-0454	System/34	15X
Graphics	BPS Business Graphics tm	6871-470	350									G830-2037	PC,XT	05Y
Graphics	BPS Graphics tm (Feature 9079)	6871-321	100										PC	05Y
+Graphics	Color Graphics Charting	4421-519	395									GC33-0223	3270-PC Graphics CP	05M
Graphics	Color Graphics Editor and Picture Plot	4421-760	385									GA33-3141	3270-PC/G or GX+GCP	05H
Graphics	CAEDS (R) Graphics System	5796-BBZ	49700	3275	1655	54790	23001100					GE20-0771	MVS,VM+3250/5080	15E
+Graphics	CAEDS Graphics Finite Element Modeler 1.	5669-209	8940										RT	05H
+Graphics	CAEDS Graphics Finite Element Modeler	5713-AAD	varies		600								Base	V1UE
Graphics	CAMM DSE Analytical Mod, Std Graphics	5793-AEY/01	500									GB30-2037	6505	05Y
Graphics	CAMMGraph Display Enhanced Graphics	5793-AEY/04	2600									GB30-2037	6508	05Y
Graphics	CSPM III - Graphics Feature	5734-XS9/01	9305		423							.GH19-7000	6065,6097	11C
Graphics	Decision Support / VSE 1.1	5666-311	3075		182	2770		164	19	31		GC33-6212	SSX,VSE	25K
Graphics	Digital Interactive Graphics / Mapping	5668-959	16610		755							.GH20-5508	5799-AYB,AXX,CMS,T50	15X
Graphics	Gertrude's Puzzles	6024-098	49									G520-1107	PC,XT,PCjr,PPC	05Z
Graphics	Graphics and Color / Script	5798-DMW	3080									.GB21-3074	DCF (Script)	15X
Graphics	Graphics Access Method / System Product	5668-978	12000		503	9000		377				GC33-0125	MVS,XA,VM	15L
+Graphics	Graphics Attachment 3277GA, 5080	5799-AXX	4000		150							GH20-2146	VM/CMS,MVS/T50	15E
Graphics	Graphics Control Program Upgrade to V3	1887-970	100									GA33-3157	3270-PC GCP Ver 2	05H
+Graphics	Graphics Control Program 3.2	6243-245	550										3270-PC	05M
+Graphics	Graphics CP 3.2, Upg from 2.0	1887-959	100										GCP 2.0	05M
+Graphics	Graphics CP 3.2, Single update from 3.1	1887-961	nc										GCP 3.1	NO5M
+Graphics	Graphics CP 3.2, Add update from 3.1	1887-962	55										GCP 3.1	05M
+Graphics	Graphics Development Toolkit	5669-050	700									SV21-8058	RT AIX tm	05H
-Graphics	Graphics Development Toolkit	6024-196	385									G520-1107	Replaced by 6280082	05Z
+Graphics	Graphics Development Toolkit 1.1	6280-076	495										PC,XT,AT,PPC,PCjr	05Z
+Graphics	Graphics Development Toolkit 1.1	6280-076/01	800										Redistribution Licen	05Z
-Graphics	Graphics Devt Toolkit 1.1 Upg from 1.0	6280-082	250										6024196	05Z
+Graphics	Graphics Program Generator 3277GA/5080	5668-941		7000	1250							GH20-5620	VM,MVS+5799-AXX+FORT	15E
+Graphics	Graphics Terminal Emulator	5669-064	600									SV21-8061	RT AIX tm	05H
Graphics	Graphics Terminal Emulator	6024-206	319									G520-1107	PC,XT,PPC,AT+DOS2.1+	05Z
Graphics	GDDM Graphics Data File - Color Support	5668-860	1100									GA23-0186	MVS,VM+7371/2/3/5	15E
-Graphics	GDDM Graphics Productivity Option	5796-PRZ	1320									G320-9142	5748-XXH	15X
Graphics	GDDM Presentation Graphics Feature	5748-XXH/01			767	162		575	121	36	58	GC33-0100	6049,2102,6500,2302	15K
Graphics	Initial Graphics Exchange Spec Processor	5668-904	26600	2400	800								5374LM3+5796ATC+ATJ	15E

Keyword	Program Title	Number	OTC	ILC	MLC	DSO	RSI	DSH	MPL	MML	Mo	MoreInfo	Environment	TPLS
Graphics	INTELLECT tm Graphics	5796-PWB	12375		663								.G320-9161.SQL/DS+CI/CS/VSE	25H
Graphics	INTELLECT tm Graphics Support	5796-PHD	12375		663								.G320-9161.MVS+GDDM/PGF+5796PMC	25H
Graphics	INTELLECT tm Graphics Support	5796-PMF	12375		663								.G320-9161.VM+GDDM/PGF+5796-PWE	25H
Graphics	LOGO (R) with Turtle Graphics	6024-076	175										0520-3917 PC,PCjr	05Z
-Graphics	Map Facility - Interactive	5796-BDN	4620										.G320-9131.MVS/TSO,GDDM	15X
-Graphics	Map Facility - Interactive	5796-PBE	4620										.G320-9131.MVS/TSO,GDDM	15X
-Graphics	Presentation Graphics, Three-Dimensional	5798-DGP	1910										.GB21-2867 VM/CMS,MVS,GDDM	15H
Graphics	Presentation Graphics - Interactive	5798-DJT		1065	408								24.GB21-2958 VM + 3277GA	15X
Graphics	Project Scheduler 5000 Plus Graphics tm	6085-992	395										.GB30-2037 PC,XT	05Y
Graphics	PC Picture Graphics	6276-508	30										PC,XT,jr,AT,3270-PC	05R
Graphics	Storyboard	6316-998	275										.0580-2001 PC,PCjr,PPC,AT,XT370	05G
Graphics	The Information Facility	5798-DLK	20000	4280	1070	18000							GG26-6000 VM	25A
Graphics	3270-PC Graphics Control Program (1507)	1887-697	450										3270-PC/G or GX	05H
Graphics	3277 APL Graphics Attachment Support	5799-AXM	2835		103								.GH20-2146 VSAPL-CMS,TSO,VSPL	15E
-Graphics	3277 Graphics Attachment Storage Tube	5798-BAG	616		56								12.GB21-2503 MVS,MVS/XA,VM/CMS	15H
-Graphics	3277 Graphics Attachment Plotter Tablet	5798-DCE	561		51								12.GB21-2598 TSO,VM 85799-AXX/-M	15H
-Graphics	3800 Interactive Business Graphics	5796-PTY	2420										.G320-9138 MVS	15X
Graphics APA	Composed Document Printing Facility 4250	5668-997	4800		342								GC33-6133 SCRPIT and/or GDDM	15K
+Graphics-Text	IPDS Graphics-Text Merge	5799-CGP	150										System/36 5364	05A
+Graphics-Text	IPDS Graphics-Text Merge	5799-CGJ	200										System/36	15E
+GraPHIGS	Graphical Data Display Mgr/ graPHIGS 1.2	5668-792			500								GAM or GDDM	15E
+GraPHIGS	Personal graPHIGS 1.2	5669-167	1000										SC13-8100 RT AIX	05E
-Graphing	Business Graphing on the IBM 3800	5798-CRB	2310		210								12.GB21-2167 OS/VS	15H
-Graphing	Graphing	5798-RPM	770										.GB30-2128 System/36	15X
Graphing	Graphing Assistant	6024-147	165										.G320-3917 PC,XT,PCjr,PPC	05Z
Graphpak	Graphpak Full Screen Interface	5796-PPH	858		65								.G320-6642 OS/VS,VM,VSAPL	15H
GRAPHS	FAST GRAPHS tm	6871-362	140										.GB30-2037 PC	05Y
+Graphs	Personal Decision Series - Graphs Editio	6403-821	225										.GH30-9012 3.5" drive	05G
Graphs	Personal Decision Series - Graphs Editio	6410-938	225										.Data Edition+color	05G
Graphwriter	Graphwriter tm Basic Set	6871-476	395										.GB30-2037 PC,XT,3270-PC	05Y
Graphwriter	Graphwriter tm Combination Set	6871-477	595										.GB30-2037 PC,XT,3270-PC	05Y
Graphwriter	Graphwriter tm Extension Set	6871-478	395										.GB30-2037 PC,XT,3270-PC	05Y
+Gravitational	Investigating Gravitational Force	6024-004	75										0520-1107 PC,PCjr,XT,AT+color	05Z
Greatest	The World's Greatest Baseball Game tm	6276-620	25										PC,XT,jr,PPC	05R
Ground	Ground Water - Earth Science Series	6024-122	55										0520-1107 PC,XT,PCjr,PPC+DOS2+	05Z
-Group	Group Life Management System	5796-PQF		2015	753								24.G320-6648 VM,DOS/VSE	15X
Group	Medical Group Management System	5726-H15	3900		174								.GH30-0228 System/34	11C
Group	Medical Group Management System II	5726-H16	9815		374	7365		280					.GH30-0228 System/34	11X
Growth	Cell Functions: Growth & Mitosis	6024-316	65										0520-1107 PC,PCjr,XT,AT,PPC	05Z
Growth	Cell Functions: Growth & Mitosis (BioSer	6024-391	292										0520-1107 PC,PCjr,XT,AT,PPC	05Z
Growth	Plants: Growth & Specialization	6024-321	65										0520-1107 PC,PCjr,XT,AT,PPC	05Z
Growth	Plants: Growth & Specialization	6024-392	295										0520-1107 PC,PCjr,XT,AT,PPC	05Z
GTFPARS	Generalized Trace Facility Analysis	5798-CRQ	2310		94								.GB21-2142 OS/VS, 5798-CPR	11E
+Guaranteed	Guaranteed Student Loan/Pell Tracking	5796-TCG	1500										.G320-9506 System/36	15I
Guest	Hotel Reservation & Guest Accounting Sys	5710-001	66000										.GB30-2034 System/38	15H
-Guidance	Career Guidance System- Secondary School	5796-AYB			250								24.G320-6176 5796-AYA	15H
-Guidance	Career Guidance System- Adults / College	5796-AYC			250								24.G320-6176 5796-AYA	15H
-Guidance	DISCOVER- Career Guidance System - Base	5796-AYA			750								24.G320-6176 DOS/VSE V51	15H
Guide	CPCS Installed User Educational Guide	5796-001	2700										G320-5807 5734-F11	05H
Guide	DOSCHECK Installed User Educational Guide	5796-002	1700										G320-6086 5746-F12	05H

Keywords - Alphabetic Sequence

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Codes Explained in Appendix B



Keyword	Program Title	Number	OTC	ILC	MLC	DSD	DSI	DSM	MLP	MML	Mo	MoreInfo	Environment	TPLS
Guide	Guide to Operations Version 2.02	6936-810											XT	05Z
Guide	Turtle Power Thinker's Guide	6024-167	11									6520-1107	Turtle Power	05Z
+Guides	THE FIX User's Guides Set	5793-AGQ/12	125									GB30-2027	5793-AGH	05Y
G1	FORTRAN IV (G1)	5734-F02										GC28-6884	05/V30/CMS	15K
H	FORTRAN IV (H Extended) Compiler	5734-F03				98			73	11	17	GC28-6884	05/V5/MFT/MVT/CMS	15K
+Habitats	Environment: Habitats & Ecosystems	6024-412	65									6520-1107	PC,PCjr,XT,AT+color	05Z
Habitats	Environment: Habitats & Ecosystems	6024-462	295									6520-1107	PC,PCjr,XT,AT+color	05Z
Hadassah	Hadassah tm and Monotype Century tm	5771-ACN	1500									6520-0004	CBPF	15E
Hand	Short Hand	6276-572	15										PC,XT,jr,AT,3270-PC	05R
Handlg	Automated Response Line Call Handlg	5798-RRG	5500		250							6320-9172	System/34	15X
+Handling	Image Handling Facility	5785-DER	15000									6320-9496	VM,MVS	25H
Hard	CADAM (R) - Hard Copy Entry System	5796-PTH/03	12348			300						6320-6063	6034,6134	15E
Hardcopy	CADAM (R) Hardcopy Module	5796-ATD	29910	5550	527	17100	3390	300				6320-6063	05/V5,VM+GAM	15E
Hardware	Hardware Maintenance and Service	6025-072	155									6520-3917	PC	05Z
Hardware	Hardware Maintenance and Service for XT	6936-809	155									6520-3917	PC	05Z
Harvard	Harvard tm Total Project Manager	6871-481	495									6B30-2037	PC,XT,AT	05Y
-HASP	HASP Support for 3800	5799-ATQ	6300									GH20-4493	05/MVT	15C
HASP-JES2	HASP-JES2 Spool Transfer Program	5798-CXJ	3165		480							6B21-1903	05/MFT/MVT/SVS/MVS	01H
HCf	DPCX/DPPX Host Command Facility Ver 2	5668-985	200					150	41	66		GC27-0453	VTAM/E+MCCF	15K
HCf	DPCX Host Command Facility	5735-XR1	128					96	36	58		GC27-0453	05/V5,DD5/V5	15K
-HCS	HCS DL/I Medical Record Abstract System	5796-AYL	747									24.6320-6341	V5E+5798-CCA,CCB	15H
HCS	HCS PCS Patient Care System 05	5796-ANY	2900									24.6320-5756	MVS+CICS+IMSDB	25H
HCS	HCS PCS Patient Care System DOS	5796-ATZ	3190									24.6320-5756	V5E+CICS+DL/I	25H
-HCS DL/I	HCS DL/I Medical Record Abstract System	5796-AYL	747									24.6320-6341	V5E+5798-CCA,CCB	15H
-HDAM	HDAM Randomizer Generator Extensions	5798-CXN	1140		104							12.6B21-2347	5798-CQG,05/V5	11H
-HDAM	HDAM Sequential Random Generator	5798-CQG	2320									6B21-2126	05/VS2,MVS/XA	01H
HDBV	Host Data Base View	5466-998	395									6520-1107	MVS/VM+PC,XT,AT	05Z
HDDI	Document Interchange - Host to Displaywr	5799-BKE		1165	265							GC09-1037	DCF,PROF5+5608-SR9	25E
HDDI	Host to Displaywriter Document Interchg	5799-BXF	3315									GC09-1037	5796-PHP+5608-SR9	25E
HDDI	Host to Displaywriter Document Interchg	5799-BXG	6095									GC09-1037	5796-PRH+5608-SR9	25D
HDLC	EDX X.25 / HDLC Communications Support	5719-HD2	2750		162							6C09-1026	EDX Version 4	15X
Health	Community Mental Health MIS	5796-PXX	7200									6320-0330	System/36	15H
-Health	DPCX Outpatient Billing System	5798-DCP	3700			291						12.6B21-2626	DPCX	15H
-Health	HCS DL/I Medical Record Abstract System	5796-AYL	747									24.6320-6341	V5E+5798-CCA,CCB	15H
Health	HCS PCS Patient Care System 05	5796-ANY	2900									24.6320-5756	MVS+CICS+IMSDB	25H
Health	HCS PCS Patient Care System DOS	5796-ATZ	3190									24.6320-5756	V5E+CICS+DL/I	25H
Health	Laboratory Data Management System II	5796-ANC	36540		1665							6320-6080	V5E+CICS	15H
Health	Laboratory Data Acquisition System	5796-AHH	925									24.6320-6095	V5E	15H
Health	LDMS Normal Value / Delta Checking	5798-DCH	4715	429								12.6B21-2602	5796-APB,5796-AMC	15H
Health	Medical Group Management System	5726-HJ5	3900		174							GH30-0228	System/34	11C
-Health	Medical Record Deficiency & Location Trk	5796-PXE	275									6320-0352	Displaywriter	15X
Health	Patient Care System - Patient Accounting	5668-913	165000		7500							GH20-6351	5796-BBF+BCE+BCF	15E
Health	Patient Care System Patient Management 1.1	5796-BBF		5135	1050							6320-6425	MVS,V5E+5796-BCE,BCF	15E
Health	PCS Infection Data Management	5796-BCC	7125		540							6320-6627	5796-ANY,ATZ	15X
Health	PCS Nursing Care Plans	5796-PQC	8250	1500	575							6320-6632	5796-ANY,ATZ	15X
Health	PCS Radiology	5796-AHJ	5565		460							12.6320-6092	5796-ANY,ATZ	15H
Health	PCS Surgery Reporting	5796-PRJ	9130									6320-9133	5796-ANY,ATZ	15X
Health	Legal Diary System	5796-BTT	49500										CICS/05/V5	25X
+Heat	Concept Devt: Heat, Temperature & Graphs	6024-474	75										128k+color	05G
Heat conduction	CAEDS (R) Finite Element Solver	5796-BDM	26470	3655	941	19800	2400	620				6520-3935	5796-BBZ+5277GA,3251	15E

Keyword	Program Title	Number	OTC	ILC	MLC	DSO	DSI	DSM	MLP	MML	Mo	MoreInfo	Environment	TPLS
Help	Application Help Aid	5798-DRC	550									.G320-9216	TMS/36	15H
Helvetica	Helvetica tm - Language Extentions	5771-ACF	4500									.G520-0004	CDPF	15E
Helvetica	Helvetica Condensed and Expanded tm	5771-ACB	1120									.G520-0004	CDPF	15E
Helvetica	Monotype Levenim tm and Helvetica tm	5771-ACK	1500									.G520-0004	CDPF	15E
Helvetica	4250 Helvetica tm	5771-AAK	960									.G520-0004	CDPF (5668-997)	11E
HFMS	Accounts Receivable Hospital	5726-H12	1375		70							.GH30-0405	System/34	11D
HFMS	General Ledger/Accounts Payable Hospital	5726-H14	2090		108							.GH30-0407	System/34	11D
HFMS	Patient Billing Hospital	5726-H11	1555		82							.GH30-0404	System/34	11D
HFMS	Payroll Hospital	5726-H15	2640		137							.GH30-0406	System/34	11D
HIDA	AHA Medical Device Database	7798-HDD	nc										Information Network	NOSC
+Hierarchical	Data Facility Hierarchical Storage Mgr	5665-329		800				600	141	226		SC33-0223	MVS, XA	15K
Hierarchical	Hierarchical Storage Manager	5740-XRB		579				434	129	206		GH55-0007	Succeeded by DFHSM	15K
+Hierarchical	Information Management System Ver 2.1	5665-332		3900				2925	8251320			GC26-4180	MVS or XA	25K
High	ACP TPF2 / High Performance Option	5748-T12/02		21000	7000							GH20-6200	2112, 6080	25E
High	High Accuracy Arithmetic Subroutine Libr	5665-337	6000									GC33-6163	MVS, XA/5748-F03	15E
High	High Level Image Processing System	5785-ABB	13530		615							.G320-9211	VM/PL/I+HBUS+7350	15H
-High	High Level Language Applic Prog Interf	1755-180	139									.0520-1107	3270-PC CP+DOS2	05H
High	IMS/DBT High Speed Sequential Retrieval	5668-856/02	8645									.4739		25E
High	VM High Performance Option Rel 4.0, 4.2	5664-173		5325	1775			39931331	136	218		GC19-6221	VM/SP	25K
High-Accuracy	High-Accuracy Arithmetic Subroutine Libr	5664-185	2500									GC33-6163	VM+5748-F03, 5748-1M3	15E
High-Accuracy	High-Accuracy Arithmetic FORTRAN Subrout	5664-185/01	150									3002	XT/370+VM/PC	05C
High-Accuracy	High-Accuracy Arithmetic FORTRAN Subrout	5666-320	2500									GC33-6163	VSE+5748-F03	15E
High-Level	EDX High-Level Language Transaction	5798-RJF	660									.GB30-1896	Series/1	15X
High-Level	RPS X.25 / High-Level Data Link Control	5719-HD1	2500		158							GC09-1026	Series/1	15X
+HighLevel	3270-PC HighLevel Applic Prog Interf 3.0	59X9-959	195									3270-PC, 3270-AT	05E	
HIS 61	COBOL Conversion Aid	5798-RGT	1430									.GB30-1764	System/38	05X
+Histology:	Cytology & Histology: Cells & Tissues	6024-407	65									0520-1107	PC, PCjr, XT, AT+color	05Z
+Histology:	Cytology & Histology: Cells & Tissues	6024-437	295									0520-1107	PC, PCjr, XT, AT+color	05Z
+Historical	TME FIX Historical Trending	5793-AG0/16	650									GB30-2027	6598	05Y
+Historical	TME FIX Historical Trending	5793-AG0/05	650									GB20-2037	6598	05Y
History	Committed Cost / Cost History Feature	5727-M68/01	1815		106	1360		85				.GH30-9003	4566, 4586, 4619, 4607	15B
History	Committed Cost/Cost History Feature Cons	5726-M68/01	1730		70	1300		51				.GH30-0707	6021, 6026, 6592, 6526	11D
HLLAPI	High Level Image Processing System	5785-ABB	13530		615							.G320-9211	VM/PL/I+HBUS+7350	15H
+HLLAPI	3270-PC HighLevel Applic Prog Interf 3.0	59X9-959	195									3270-PC, 3270-AT	05E	
+HLLAPI	3270-PC HLLAPI Upgrade from Versions 1.2	59X9-959/01	95									3270-PC, 3270-AT	05E	
+HLLAPI	3270-PC HLLAPI Upgrade from Versions 1.2	59X9-959/01	95									3270-PC, 3270-AT	05E	
+Holidays	PC PicturePak tm Holidays	6187-523	195									.GB30-2037	PC, XT, PCjr, AT, 3270PC	05Y
Home	Assistant Home Solutions	6024-150	69									.G520-3917	PC, XT, PCjr, PPC	05Z
Home	Home Budget, jr (Feature 4130)	6024-130	45									0520-3917	PC, PCjr, XT	05Z
+Homeostasis	Regulation & Homeostasis	6024-610	65									0520-1107	PC, PCjr, XT, AT+color	05Z
+Homeostasis	Regulation & Homeostasis	6024-440	295									0520-1107	PC, PCjr, XT, AT+color	05Z
Homeword	Homeword tm (Feature 4090)	6024-090	75									0520-3917	PCjr	05Z
-Honeywell	COBOL Conversion from Honeywell (R)	5785-JAA	3300									.GB21-2858	OS/V5, DOS/VSE, VM/370	05H
Honeywell	Honeywell (R) 200 Emulator	5799-ADT			757							GA24-3604	DOS DOS/V5	05C
Honeywell	TRANSLATOR Honeywell (R) 200 COBOL	5796-PXZ	46200									.G320-9204	MVS+ISPF	05X
Honeywell	TRANSLATOR Honeywell 2000 COBOL	5796-PYP	46200									.G320-9204	MVS+ISPF	05X
+Hopping	Hopping Down the Math Trail	6276-633	20										PC, XT, PCjr, AT+color	05R
Hosp	Hosp Info - Medical Records Abstracting	5727-AB1/02	14300		650								6083-6099	15H
Hospital	Accounts Receivable Hospital	5726-H12	1375		70							.GH30-0405	System/34	11D
-Hospital	DPCX Outpatient Billing System	5798-DCP	3200		291							12.GB21-2626	DPCX	15H

Keywords - Alphabetic Sequence

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Codes Explained in Appendix B

Keyword	Program Title	Number	OTC	ILC	MLC	DSO	DSI	DSH	MLP	MML	Mo	MoreInfo	Environment	TPLS
Hospital	Hospital Info, Order Comm & Results Rept	5727-AB1/01	15000		750							.5B30-7049	6082	15H
Hospital	Hospital Info, In-service Training Modul	5727-AB1/03	5000		750							.5B30-7049	6244	15H
Hospital	Hospital Information System	5727-AB1	16500		750							.5B30-7016	System/36	15H
Hospital	HCS PCS Patient Care System OS	5796-ANY			2900						24	G320-5756	MVS+CICS+IMSDB	25H
Hospital	Laboratory Data Management System II	5796-AHC	36540		1665							.G320-6080	VSE+CICS	15H
Hospital	Laboratory Data Acquisition System	5796-AHH			925						24	G320-6095	VSE	15H
Hospital	LDMS Normal Value / Delta Checking	5798-DCH	4715		429						12	GB21-2602	5796-APB, 5796-AHC	15H
-Hospital	Medical Record Deficiency & Location Trk	5796-PXE	275									.G320-0352	Displaywriter	15X
-Hospital	Online Hospital Data Entry/Inquiry	5798-NRM	2350		214						12	GB30-1214	System/34	15H
Hospital	Patient Billing Hospital	5726-H11	1555		82							.GH30-0404	System/34	11D
Hospital	Patient Care System Patient Managemt 1.1	5796-BBF		5155	1050							.G320-6425	MVS,VSE+5796-BCE,BCF	15E
Hospital	Payroll Hospital	5726-H13	2640		137							.GH30-0406	System/34	11D
Hospital	PCS Infection Data Management	5796-BCC	7125		540							.G320-6627	5796-ANY,ATZ	15X
Hospital	PCS Nursing Care Plans	5796-PQC	8250		1500	575						.G320-6632	5796-ANY,ATZ	15X
Hospital	PCS Radiology	5796-AHJ	5565		460						12	G320-6092	5796-ANY,ATZ	15H
Hospital	PCS Surgery Reporting	5796-PRJ	9130									.G320-9135	5796-ANY,ATZ	15X
Hospitality	EDX Point of Sale - Hospitality	5710-D02	19900									.GB30-2499	Series/1	25H
Host	Advanced Control System - Host ACS	5799-BEJ	247800		22530						12	GH20-2464	V51,5799-AHE	25E
Host	Automated Teller Host Enhancements	5796-BBH			1050						12	G320-6428	DOS/VS, CICS/VS	15H
Host	Automated Teller Host Support	5796-BBJ			2235						12	G320-6428	CICS/DOS/VS	15H
Host	Branch Electronic Reports System - Host	5799-BNX	53000									SH17-5500	4700-MVS	15E
Host	COPICS Plant Monitoring - Host Interface	5798-DFR	5705		173							.GB21-2842	OS/VS VSE 5798-DFT	15E
-Host	Data Collection Host	5798-RDX	75									.GB30-1552	System/34 to S/1	15H
-Host	Distributed Data Transfer - Host	5798-DCA	1210		110						12	GB21-2594	OS/VS,DOS+5798-DCF	15H
-Host	Document Interchange - Host to Displaywr	5799-BKF		1165	265							GC09-1037	DCF,PROFS+5608-SR9	25E
Host	DPCX 3790 3770 Host Support	5747-BQ1	nc									GC22-9071	DOS/VS	N05J
Host	DPCX/DOSF Host Prep	5735-XR3			250		187	81	130			GC27-0572	VTAM/E,TCAM	15K
Host	DPCX/DPPX Host Command Facility Ver 2	5668-985			200		150	41	66			GC27-0453	VTAM+E+NCCF	15K
Host	DPPX Data Compression - Host	5798-DJL	1265									.GB21-2953	MVS + 5798-DJN	15X
Host	DPPX DPCX Host Command Facility	5735-XR1			128			96	36	58		GC27-0453	OS/VS,DOS/VS	15K
Host	EDX COBOL Host for Series/1	5799-TEL			1535						24	GC34-1720	Series/1	15E
Host	EDX Host / Communications Facility	5668-979		562	215							.GH20-2485	OS/VS, DOS/VSE,CICS	15X
Host	Host to Displaywriter Document Interchg	5799-BXF	3315									GC09-1037	5796-PHF+5608-SR9	25D
Host	Host to Displaywriter Document Interchg	5799-BXG	6095									GC09-1037	5796-PHF+5608-SR9	25D
Host	Host Data Base View	6466-938	395									.G520-1107	MVS/VM/PC,XT,AT	05Z
-Host	Host Document View Facility	5796-BCL	5170	635	207							.G320-6640	MVS,DISOSS,IMS,CICS	15X
Host	Host Interactive Store Communications	5798-DNH	26400		1200							.GB21-3117	MVS+CICS	25H
Host	Host Print Facility	5740-XY9/03	3870		176							.GH12-5124	6113,6234	25B
-Host	Host Remote Node Entry System II	5796-PPL	2815		150							.G320-6647	OS/VS/1	15E
Host	Integrated Publishing System - Host	5796-BDP		3900	1495						24	G320-9128	VM/CMS+5796-BDQ	15X
Host	Retail Store System Host Support	5744-BQ1	nc									GC30-3022	OS/VS/1	N05S
Host	RPS S/370 Host COBOL for Series/1	5799-TEP			1535						24	GC34-1721	Series/1	15E
Host	RPS Version 6 - Host Program Prep	5799-BNA	8000		800							GA34-0555	MVS	15X
Host	Supermarket System Host	5747-BK1	nc									GC30-3025	DOS/VS	N05S
Host	TSO Host Server for PC XT/370 (VM/PC)	5798-DTL	2420									G520-3917	MVS+VTAM	15H
-Host	Universal Billing - Host	5799-TDT	4580		205								Series/1	05C
+Host	VM/PC Host Server	5664-319	2000		135								VM+VM/PC on AT/370	15X
Host	Yale ASCII Communications - Host Loaded	5798-RRJ	4070									.GB30-2317	VM to EDX to 4994	15X
Host	3600 Host Support Finance Communication	5744-CA3	nc									GC27-0006	OS/VS	N05S
Host	3600 Host Support	5747-RR1	nc									GC27-0006	VSE,SSX	N05S

Keyword	Program Title	Number	OTC	ILC	MLC	DSO	DSI	DSH	HLP	MHL	Mo	MoreInfo	Environment	TPLS	
Host	3624 Teller Machine IMS/VS Host Support	5796-BBG										12.G320-6427	MVS,ACF/VTAM	15H	
Host	3630 Plant Communication Host Services	5744-CR1	nc									GA24-3721	OS/VS	NO5X	
Host	3630 Plant Communication System Host	5747-CJ1	nc									GA24-3721	DOS/VS	NO5X	
Host	3650/3680 Language and Host Services 1.2	5668-912		4280	444		3210	333	110	176		GA27-3213	VSE, OS/VS+BTAM,VTAM	15K	
Host	3660 Supermarket System - Host Support	5744-BR1	nc									GC30-3042	OS/VS	NO5S	
+Host	3728 Matrix Switch Host Facility	5665-428	6000									G520-6040	NetView/NCCF+MVS, XA	15M	
Host	3790 3770 Host Support	5744-BZ3	nc									GC22-9071	OS/VS	NO5X	
Host	4700 Finance System - Host Support 1.5	5668-989		2070	647		1555	484	181	290		GC31-2019	MVS, XA, VSE, SSX	15K	
-Host	5520 Documents - Host Store & Forward	5798-RHA	12100		1100							12.GB30-1690	TCAM, VTAM	15X	
HOSTCM	Waterloo HOSTCM	5793-AAN/03	330									2003		05F	
-Hotel	Hotel / Lodging Application	5796-PXC	550									.G320-0350	Reportpack	15X	
Hotel	Hotel Reservation & Guest Accounting Sys	5710-D01	66000									GB30-2034	System/38	15H	
+House	Memory House	6276-551	20									PC, XT, AT, PCjr		05R	
Housekeeping	Hotel Reservation & Guest Accounting Sys	5710-D01	66000									GB30-2034	System/38	15H	
HPD	VM High Performance Option Rel 4.0, 4.2	5664-173		5325	1775		3993	1331	136	218		GC19-6221	VM/SP	25K	
HPD	VM HPO Support for 3880	5798-DRJ	2200									.G320-9225	CMS+HPO	15H	
HSM	Hierarchical Storage Manager	5740-XRB			579			434	129	206		GH35-0007	Succeeded by DFHSM	15K	
HSM	HSM Maintenance / Recovery Utilities	5796-BDY	2000	nc								.G520-9162	MVS+5740-XRB	15H	
HSM	MVS Productivity System	7798-MVS	nc										Information Network	NO3C	
Human	Human Life ProcessesI: Cellular Physiolo	6024-346	65									G520-1107	PC, PCjr, XT, AT, PPC	05Z	
+Human	Human Life Processes	6024-411	65									G520-1107	PC, PCjr, XT, AT+color	05Z	
+Human	Human Life: Development & Differentiatn	6024-441	295									G520-1107	PC, PCjr, XT, AT+color	05Z	
+Human	Human Life: Development & Differentiatn	6024-414	65									G520-1107	PC, XT, AT, PCjr+color	05Z	
+Human	Human Life: Development & Differentiatn	6024-444	295									G520-1107	PC, XT, AT, PCjr+color	05Z	
Human resources	LOGO (R) with Turtle Graphics	6024-076	175									G520-3917	PC, PCjr	05Z	
Hydrologic	Hydrologic Cycle - Earth Science Series	6024-121	55									G520-1107	PC, Xt, PCjr, PPC+DOS2+	05Z	
Hypervisor	Virtual Machine/System Product Rel 4	5664-167			443			332	69	110		GC20-1838	S/370, 4300, 303x, 308x	25K	
I/O	Checkbook I/O	6276-616	30										PC, XT, jr, AT, PPC	05R	
-I/O	Virtual System Time Shared I/O for VSAPL	5798-DEN		675	241							12.GB21-2741	TSO, VSAPL	15X	
+IA	Applix tm IA	5669-100	1995									SV21-8085	RT AIX	05Z	
IAM	EDX Indexed Access Method Version 2.1	5719-AM4	1150		55							SC34-0771	Series/1	15M	
IAM-V2RPS	RPS Indexed Access Method Ver 2	5719-AM2	1150		55							GC34-0395	Series/1	15X	
IATA	Link Control FDx IATA 3704 SEP	5799-AHP	12100		550								ACP	15B	
IBM/DBT	IBM/DBT PSB Mapper	5668-856/03	957										.4740	25E	
ICCF	Interactive Computing & Control Facility	5746-TS1			161				144	28	45		GC33-6066	DOS/VSE+VTAM, BTAM-ES	15K
-ICCF	ICCF Automated Library Manager	5798-DJR	363									.GB21-2956	DOS/VSE	15X	
-ICCF	ICCF Library Scan	5796-PQB	660		50							.G520-6630	DOS/VSE, ICCF	15H	
ICCF	SSX/VSE ICCF	5799-BNF/07	1045		64	941		57				4880, 4881, 4882, 4883		25K	
ICCF	VSE/SP ICCF Feature	5799-BNB/01	4435		139	3990		125				4926, 4952, 4953, 4515		15K	
ICCF	VSE/SP ICCF Feature	5792-BNC/01	5095		161	4582		144				4927, 4926, 4977, 4573		15K	
ICCF	VSE/SP ICCF 2.1.0	5666-316/01	48500		2160	43650		1945	433	693		4560, 4541, 9540, 9541		15K	
ICCF 2.1	Interactive Computing & Control Facility	5666-302	5595		214	5035		192	12	19		GX33-9011	VSE/AF+CIICS	15K	
-ICCF/VSE	ICCF/VSE Introduction	5798-DDX	660		60							12.GB21-2709	IIS, IIPS	15H	
ICEF	Interactive Composition and Editing Ver2	5798-DT2	25000		1250							G520-9798	VM+4250 or 3800 III	25H	
ICF	Interactive Communications Feature	5726-SS1/01	3700		151	2775		114				G580-0295	6000, 6511, 6558, 6509	15A	
ICF	SSP Interactive Communications Feat	5727-SS1/03	4300		383	3785						GC21-9021	4506, 4507, 4602	15A	
+ICFRU	Integrated Catalog Forward Recovery Util	5798-DXQ	4500									.G320-9501	MVS, XA	15H	
ICKDSF	Device Support Facility for MVS/XA 1.8	5655-257	nc									GC26-3946	3340, 3344, 3350, 3380	NO5S	
ICKDSF	Device Support Facilities for Standalone	5747-DS1	nc									GC26-3946	3340, 3344, 3350, 3380	NO5S	
ICKDSF	Device Support Facilities for VSE 1.8	5747-DS2	nc									GC26-3946	3340, 3344, 3350, 3380	NO5S	

Keywords - Alphabetic Sequence

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Codes Explained in Appendix B

Keyword	Program Title	Number	OTC	ILC	MLC	DSO	DSI	DSM	HLP	HML	Mo	MoreInfo	Environment	TPLS
ICS	Insurance Communication Service	7798-ICS	nc										Information Network	NOSC
-IDES	Intelligent Data Entry System	5798-NPY	759	69								12.GB30-1134 Series/1		15H
-IDES II	Intelligent Data Entry System II	5798-NXQ	2615	119								24.GB30-1352 Series/1		15H
-IDP	Information Display Program	5798-DMN	2200									.GB21-3062 MVS,VM+3270		15X
IDMS	Distributed Workstation Support	5740-XYE										GC24-5193 05/VS/1		15K
IFS	Interactive File Sharing	5748-XXC			52							GC24-5195 VM/CMS		15K
IFS-1	Financial-Posting & General Ledger Rel 3	5668-967	22220		1010							.GH20-2467 CICS+IMS+PL/I		15B
IFS-1	General Ledger & Postings Release 3	5746-F52	19750		898							.GH12-5120 CICS+DL/I+PL/I		15E
IFS-2	Financial-Status P&L Balance Sheet Rel 3	5668-968	5100		232							.GH20-2467 CICS+IMS+PL/I		15B
IFS-2	P&L and Balance Sheet Release 3	5746-F53	8575		199							.GH12-5120 CICS+DL/I+PL/I		15E
IFS-3	Financial- Open Item Acctg A/R A/P Rel 3	5668-969	9855		448							.GH20-2467 CICS+IMS+PL/I		15B
IFS-3	Open Item Accounting A/R A/P Rel 3	5746-F54	8775		399							.GH12-5120 CICS+DL/I+PL/I		15E
IFS-4	Financial- Payment Processing A/P Rel 3	5668-970	6820	562	310							.GH20-2467 CICS+IMS+PL/I		15B
IFS-4	Payment Processing A/P Release 3	5746-F55	6600		300							.GH12-5120 CICS+DL/I+PL/I		15E
IGES	CADAM (R) Express - Base	5664-286	126000	856	3315	53970	54001800					.GH20-6487 5750-VME		15E
IGES	CAEDS (R) Modeler	5796-BFR	77100	7710	2570	53970	54001800					GE20-0771 VM,MVS+5080+GAM		15E
IGES	Fasdraft to IGES Translator	5796-BEB		2285	251							05/VS,VM,SP		15X
IGES 2.1	Initial Graphics Exchange Spec Processor	5668-904	26600	2400	800							5374LM3+5796ATC+ATJ		15E
IIAS	Interactive Instructional Authoring	5668-011	16170		529							.GH20-0008 VM,IMS,CICS+TCAMVTAM		2EB
IIAS	IIAS XT/370	5668-011/01	1890		60							3013.3008		05C
IIAS/IIPS	Instructional System - Presentation	6428-071	89									.G320-0441 PC		05X
IIAS/IIPS	Instructional System - Administration	6428-087	439									.G320-0441 PC		05X
IIPS	Interactive Instructional Presentation	5668-012	9450		309							MVS,VSE,VM		2EB
IIPS	IIPS XT/370	5668-012/01	604		18							3009,3014		05C
IIPS	Virtual Machine Productivity System	7798-VMP	nc										Information Network	NOSC
IIS	Interactive Instructional System	5748-XX6			582							.GH20-1895 D05/VS,05/VS,VM		25X
Illustrations	RPS Sales Proposals and Illustrations	5710-RTK/02	2530		115							2106,2113		15X
Image	High Level Image Processing System	5785-ABB	13550		615							.G320-9211 VM+PL/I+HBUS+7350		15H
Image	Image Distribution System - Scanmaster	5799-BJA	8800		440							SH18-0058 CICS/D05/VS		15X
Image	Image Distribution System - Scanmaster	5799-BJB	8800		428							SH18-0058 CICS/05/VS		15X
+Image	Image Handling Facility	5785-DER	15000									.G320-9496 VM,MVS		25H
Image	Image Processing System	4466-996	310									.G320-0823 All ex PC3+color		05H
Image	Image View Facility	5785-ECX	5940		270							.G320-0331 DIS05S+8815MVS		15H
Image	Image View Facility/VM Feature	5785-ECX/01	660		30							6010,6012		25H
Image	Image View Facility	5785-EDJ	5400									.G320-0802 DIS05S+Scanmaster		25H
Image	Image View Facility/VM Feature	5785-EDJ/01	600									6008,6009		25H
-Image	Print Image Library Documentation Aid	5798-DNE	660									.GB21-3097 05/VS		15X
-Image	3270 Screen Image Preprocessor	5796-AFC			123							12.G320-8099 05, 05/VS		15H
-Image	3800 Page Mode - Text and Image Merge	5798-DPK	5500		250							.G320-9185 MVS		15X
Image	4730 Customization Image Builder Rel 2	5668-870	6000		535	5400						GC31-0029 SSX,VSE,VS1,MVS,VA		11E
Image	6670 II Image Printing System	5785-FAZ	660									.G320-0332 Font files,edit+PL/I		15H
+IMFP	Inventory Management for Process	5727-M7N	20000		1000	17600						.GH30-0998 System/36		15E
-Implementation	Administrative Support Implementation	5608-AX1	220									Displaywriter		01C
-Implementation	Applicant Processing Implementation	5608-AX2	220									Displaywriter		01C
-Implementation	Personnel Reporting Implementation	5608-AX3	220									Displaywriter		01C
Import	3340 Data Import from System/3	5746-AM3	1320									GC33-6062 D05/VSE VSAM		05C
IMS	See yellow pages 4-72 and 4-58.	0000-013	nc											NOSC
IMS/DBT	IMS/DBT DEDB Pointer Checker	5668-856/05	2845									.4742		25E
IMS/DBT	IMS/DBT DEDB Tuning Aid	5668-856/06	836									.4743		25E
IMS/DBT	IMS/DBT DEDB Unload/Reload	5668-856/07	2445									.4744		25E

Keyword	Program Title	Number	OTC	ILC	MLC	DSO	DSI	DSM	MLP	MML	Mo	MoreInfo	Environment	TPLS
IMS/DBT	IMS/DBT Full Function Space Mgt Utility	5668-856/01	5555										.4738	.25E
IMS/DBT	IMS/DBT High Speed Sequential Retrieval	5668-856/02	8645										.4739	.25E
IMS/DBT	IMS/DBT VSAM Zapper	5668-856/04	709										.4741	.25E
IMS/VS/DB	IMS/VS Data Base System 1.3	5740-XX2												.05K
IMSASAP	IMS Monitor Summary & System Analysis II	5798-CHJ	3675										.GH20-1260	MVS,VS1
+IMSL Library	5669-107	3500											.GB21-1792	IMS/VS+GPAR
IMSL	STAT/PC-LIBRARY tm	6187-271	440											RT AIX
IMSL Library	MATH/PC-LIBRARY tm	6187-270	440										.GB30-2037	PC,XT,AT,RT
+IMSL tm	LP/PROTRAM	5669-103	2700										.GB30-2037	PC,XT,AT,RT
IMS0	Batch Terminal Simulator	5668-948	9662	1030	394	7245	773	295	28	46			.GH20-5522	IMS/VS & TSO
In-service	Hospital Info, In-service Training Modul	5727-AB1/03	5000			750							.S830-7049	6244
-In-Store	In-Store Data Communication Facility	5796-BDL	858										.G320-9129	Series/1
+IN/x (R)	Advanced Interactive Executive tm	5669-061	3400										.GC23-0784	RT
+IN/x (R)	AIX Virtual Resource Manager	5669-060	1000										.GC23-0784	RT
Inbound	Inbound File Analysis and Retrieval	5798-DTP	2555										.GB30-2037	ADCS
Inc	TRANSLATOR Burroughs (R) COBOL 1800-1900	5796-PXY	46200										.G320-9204	MVS+ISPF
Including	MPSX Including MIP XT/370 Feature	5740-XM3/02	1250			62								3015,3016
Income	Advance Earned Income Credit Interfaces	5798-NYQ	575										.GB30-1395	System/34, System/32
-Independence	DASD Device Independence Open	5798-AWH	1080			49							.GB21-1002	DOS/VS
Independent	3694 Independent Release	5658-001	nc										.GC31-0013	OS,VS, DDS/VSE
-Index	Mult Index Support - Disk Files	5798-NQL				69							.06.GB30-1168	System/34
Indexed	CPS Indexed Access Method	5799-TAH	144			6							24	SC34-1556
Indexed	EDX Indexed Access Method Version 2.1	5719-AM4	1150			55								Series/1
Indexed	RPS Indexed Access Method Ver 2	5719-AM2	1150			55								Series/1
Indexed	RPS Indexed Access Method Version 3	5799-TCB	420			7								Series/1
Indust	EDX Indust Terminals - Transaction Test	5798-RRD	1980										.GB30-2332	Series/1
-Indust.	DL/I - CICS/VS Test Prog. State Indust.	5796-ARN	1020			93							12.G320-6053	DOS/VS
Industrial	Industrial Terminals- Acquisition & Tran	5798-RRD/01	1650											3036
Industrial	Taylor Industrial - Modicon 484/584/884	5793-AGD	2500										.GB30-2037	5531,7531,7532
-Industrial	3640 Industrial Termin - CICS Extensions	5798-DMC	3575										.GB21-3040	5660-267
Industry	737x Industry Std Plotting Commands	5796-BDZ	395										.GC23-0120	MVS,VM,RS232+FORTRAN
Ined	Interactive Executive for System/370	5667-126	10000										.GC33-6207	VM+Series/1
Infection	PCS Infection Data Management	5796-BCC	7125			540							.G320-6627	5796-ANY,ATZ
Info Center	Cooperative Viewing Facility Version 2	5664-296	5280			330							.G520-6005	VM
Info	Purchase Ordering & Mdsr Info. System	5796-PXP	47300										.G320-9195	MVS+PARIS/Base
Info-Center/1	Info Center/1	5668-897	22000			1390	18000	1040					.GH20-0398.	VM, MVS
INFO/ACCESS	Information/Access Version 1	5665-950				3300	362	2475	270	28	45		.GC34-2096.	V2 of INFO/SYS & MGT
INFO/LIB	Information/Library	5665-277				536	205	401	154	15	24		.GH12-5136	MVS, XA+NCCF
INFO/MGMT	Information / Management Version 2	5665-953				2950	363	2200	270	32	51		.GC34-2098.	5665-952
Info/MVS	Info/MVS Direct Load Feature	5665-955/01				380								.4582
Info/MVS	Info/MVS Direct Load Feature	5668-919/01				190								.4788
INFO/MVS	Information / MVS	5665-955				305								.5665-952
INFO/SYS	Information / System Version 2	5665-952				2705	311	2033	233	56	90		.GC34-2096.	MVS
INFO/VHWE	Information / VM-VSE	5668-919				150							.GC34-2070	5665-952
INFDPC	INFDPC	6276-256	40											PC,XT,IR,AT,PPC
+INFOFORM	Distribution Control Sys INFOFORM Xface	5793-ADN	10000										.GB30-6003	5793-AFG+INFOFORM II
+INFOFORM	Distribution Control Sys INFOFORM Xface	5793-AFP	10000										.GB30-6003	5793-AFG+INFOFORM II
INFOFORM	INFOFORM II Allocation	5798-DDT	13550			616							24.GB21-2695	OS,VS, DDS/VSE
INFOFORM	INFOFORM II Online Processor	5798-DET	15480			704							24.GB21-2695	OS,VS, DDS/VSE
INFOFORM II	Inventory Forecasting & Replenishment II	5798-DDR	15110			687							24.GB21-2695	OS,VS, DDS/VSE

Keywords - Alphabetic Sequence

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Codes Explained in Appendix B

Keyword	Program Title	Number	OTC	ILC	MLC	DSO	DSI	DSH	HLP	MHL	Mo	MoreInfo	Environment	TPLS
Information/Acc	Information/Access Version 2	5665-267		3550	747		2665	563	20	32		.GC14-2096.MV5+V2 of Info/Sys	15X	
Information/Acc	Information/Access Version 1	5665-950		3300	362		2475	270	28	45		.GC14-2096.V2 of INFO/SYS & MGT	15K	
Information/Lib	Information/Library	5665-277			536	205	401	154	15	24		.GH12-5136.MV5.XA+NCCF	15K	
+Information/Man	Information/Management Version 3	5664-322	8800		500	6600		375	44	70		.GC14-6045.Info/Sys V3+VM	15K	
Information/Man	Information/Management Version 2	5664-953		3155	363		2354	270	25	40		.GC14-2185.VM+Info/Sys_Version2	15K	
+Information/Man	Information/Management Version 3	5665-383	8800		500	6600		375	58	93		.GC14-6045.Info/Sys V3+MV5	15K	
+Information/Sys	Information/System Version 3	5664-323	8000		450	6000		337	52	83		.GC14-6045.VM	15K	
Information/Sys	Information/System Version 2	5664-952		2705	311		2033	253	49	72		.GC14-2185.VM+ISPF	15K	
+Information/Sys	Information/System Version 3	5665-384	8000		450	6000		337	49	78		.GC14-6045.MV5	15K	
+Information:	Reading for Information: Grades 3-4	6024-358	125									G520-1107 PC,XT,AT,PCjr+color	05Z	
+Information:	Reading for Information: Grades 5-6	6024-359	150									G520-1107 PC,XT,AT,PCjr+color	05Z	
+Information:	Reading for Information: Grades 7-8	6024-360	150									G520-1107 PC,XT,AT,PCjr+color	05Z	
+Information:	Reading for Information: Grades 7-8	6024-366	750150									G520-1107 PC,XT,AT,PCjr+color	05Z	
+Information:	Reading for Information: Grades 3-4	6024-386	565									G520-1107 PC,XT,AT,PCjr+color	05Z	
+Information:	Reading for Information: Grades 5-6	6024-387	675									G520-1107 PC,XT,AT,PCjr+color	05Z	
Information/Net	Application System Release 4	5767-001	60000	30000	2000							GE45-5000.MV5.VM+GDDM	.T15E	
INFORMIX	IX INFORMIX tm	5796-TBE	14000									.G520-0803 IX/370	15H	
INFORMIX	IX INFORMIX Embedded Query for COBOL	5796-TAY	9000									.G520-0803 IX/COBOL	15H	
INfort	FORTRAN 77 Interactive Compiler	6410-971	275									.G520-0345 PC/IX	05H	
INfort	INfort	5799-BZH		2230	500							VM/IX	05H	
+Inheritance	Mendelian Genetics: Inheritance	6024-408	65									G520-1107 PC,PCjr,XT,AT+color	05Z	
+Inheritance	Mendelian Genetics: Inheritance	6024-438	295									G520-1107 PC,PCjr,XT,AT+color	05Z	
Initial	Initial Graphics Exchange Spec Processor	5668-904	26600	2400	800							5374LM3+5796ATC+ATJ	15E	
Initiated	Time Initiated Input Facility	5798-CHF	2745	134								.GB21-2255 IMS/VS V1	15E	
+INmail	INmail tm/INnet tm/File Transfer Program	5669-053	625									ATX tm on RT	05H	
INnet	Interactive Network and Message System	6410-976	329									.G520-0346 PC/IX	05H	
INnet/FTP	Interactive Network and Message System	6410-976	329									.G520-0346 PC/IX	05H	
INnet/INmail	Interactive Network and Message System	6410-976	329									.G520-0346 PC/IX	05H	
Input	STAIRS Input Formatter	5740-XY9/02	5760		262							.GH12-5124 6109.6232	25B	
Input	Time Initiated Input Facility	5798-CHF	2745	134								.GB21-2255 IMS/VS V1	15E	
Input/Output	APL VS Time Shared Input/Output Interfac	5798-DQE	3300									.G520-0365 MV5.XA+APL	15H	
Input/Output	Series/1 Input/Output Executive Ver 1.1	5719-EM1	650									SC34-0726 EDX or RPS+S/1-XT/AT	15M	
Inquiry	Alpha Search Inquiry System	5736-N14	6375	303								.GH20-1188 C1CS/OS/DOS/VS.CMS	15C	
-Inquiry	Alpha Search Inquiry - IMS Interface	5798-AMB	8105	737								12.GB21-0987 05	11H	
-Inquiry	Alpha Search Inquiry Sys Online Update	5798-CFJ	4840	440								12.GB21-1677 C1CS/DOS/OS/VS.CMS	15H	
Inquiry	File Inquiry Processor	5799-TGJ	18500										05C	
Inquiry	Life Inquiry / Data Entry	5746-N11	25220	1215								.GH20-1499 C1CS/DOS/OS/VS/IMS	11C	
Inquiry	Programmed Inquiry Learning or Teaching	6316-973	219									.G520-1107 PC,XT,AT,PPC,PCjr	05H	
-Inserter	5800 Line Inserter	5796-AZK	1120									G520-6393 05/VS	15H	
Inst	MVS CBIPD Model Inst Related Inst Materl	5751-CS2	varies									GC23-0127 5751-CS1	V S	
Inst	MVS CBIPD Model Inst Related Inst Materl	5751-CS2	varies									GC23-0127 5751-CS1	V S	
+Install	Token-Ring Network Bridge Install Kit	6476-041	3285									GA27-3677 2 TR Nets+AT,AT-Ind	05M	
Installed	CPCS Installed User Educational Guide	5796-001	2700									G520-5807 5734-F11	05H	
Installed	DOSCHECK Installed User Education Guide	5796-002	1700									G520-6086 5746-f12	05H	
Installation	Commercial Bank Installation Loan	5746-F67		979	374							.GH20-2497 DOS/VS+FCBAS Base	15X	
Installation	Installation Loan Accounting Banking	5726-F14	4100	213								.G560-0050 System/34	11X	
Instructional	Instructional System - Presentation	6428-071	89									.G520-0441 PC	05X	
Instructional	Instructional System - Authoring	6428-072	575									.G520-0441 PC	05X	
Instructional	Instructional System - Administration	6428-087	439									.G520-0441 PC	05X	
Instructional	Interactive Instructional Authoring	5668-011	16170	529								.GH20-0008 VM,IMS,C1CS+TCAMVTAM	2EB	

Keyword	Program Title	Number	OTC	ILC	MLC	DSO	DSI	DSH	MLP	MHL	Mo	MoreInfo	Environment	TPLS	
Instructional	Interactive Instructional Presentation	5668-012	9450		309								MVS,VSE,VM	2EB	
Instructional	Interactive Instructional System	5748-VX6			582							.GH20-1895	D0S/VS,0S/VS,VM	2SX	
Instructor	The Instructor tm	6871-288	44									.GB30-2037	PC,XT,PCjr	05Y	
INSTRUCTOR	Typing INSTRUCTOR	6404-005	50									.GB30-2037	PC,XT,PCjr	05Y	
+Instruments	Texas Instruments Ladder Logic Documents	5793-AHG	2500										Industrial PC	05Y	
Instruments	EDX to Texas Instruments (R) Controllers	5719-THA	5000									GC34-0099	5719-CF1	15H	
Insurance	Insurance Agency System	6024-065	2500									0520-3917	PC	05E	
Insurance	Insurance Communication Service	7798-ICS	nc										Information Network	N05C	
-Insurance	Map Facility - Interactive	5796-BDN	4620									.G320-9131	MVS/TSO,GDDM	15X	
-Insurance	Map Facility - Interactive	5796-PBE	4620									.G320-9131	MVS/TSO,GDDM	15X	
Insurance	Title Insurance	5798-RN2	550									.GB30-2247	Displaywriter	15X	
Integer	Mixed Integer Programming Feature - MP5X	5740-XMS/01	14100		641							.GH19-1090	6038,6217,6039	11B	
Integer	Mixed Integer Programming for MP5X	5746-XM2/01	12120		551							.GH19-1090	6038,6143	11B	
+Integrated	CAEDS Integrated Finite Element Solver	5713-AAE	varies		485								Base	V1UE	
Integrated	DPPX Integrated Process of Data & Text	5785-DEI	4400									.G320-0356	8100	15X	
+Integrated	Integrated Catalog Forward Recovery Util	5798-BXQ	4500									.G320-9501	MVS,XA	15H	
Integrated	Integrated Processing of Data & Text V4	5665-347	29700		1760							.G320-0354	CICS/IMS+MVS+GDDM+PL	25E	
Integrated	Integrated Processing of Data & Text V4	5666-325	13200		748							.G320-0354	CICS/VSE+DCF+GDDM+PL	25E	
-Integrated	Integrated Processing of Data & Text V1	5785-DCT	18150		825							24.GB21-2755	0S/VS,IMS,DCF	15H	
-Integrated	Integrated Processing of Data & Text V1	5785-DCX	10250		466							.GB21-2946	CICS/0S/VS	15E	
-Integrated	Integrated Processing of Data & Text V1	5785-DDD	6710		305							.GB21-2946	CICS/VSE	15E	
Integrated	Integrated Processing of Data & Text V2	5785-DEH		2700	667							24.G320-0354	IMS/VS	25X	
Integrated	Integrated Processing of Data & Text V2	5785-DEJ		2400	667							24.G320-0354	CICS/0S	25X	
Integrated	Integrated Processing of Data & Text V2	5785-DEK		2000	563							24.G320-0354	CICS/VSE	25X	
Integrated	Integrated Production Control System	5796-ZFH	19250									.GB30-2261	System/36	15X	
Integrated	Integrated Publishing System - Host	5796-BDP		3900	1495							24.G320-9128	VM/CMS+5796-BDQ	15X	
Integrated	Integrated Publishing System	5796-BDQ	1100									.G320-9128	Series/1+5796-BDP	15X	
Integrated	IX Integrated WORD/MATH	5796-TAT	12000									.G320-0814	IX/370	15H	
Integrated	IX Integrated WORD/MATH	6316-989	659									.3209-223	PC/IX	05H	
Integrated	1401/1440/1460 Integrated Emulator	5744-AH1	nc									GC33-2018	0S/VS	N05C	
Integrated	1410/7010 Integrated Emulator	5744-AG1	nc									GC33-2019	0S/VS	N05C	
Integration	ACS On-Line / IPCS Integration	5796-ZHK	3300									.GB30-2258	System/36	15X	
Integrator	Data Base Manager II-The Integrator tm	6871-331	295									.GB30-2037	PC,3270-PC,XT,AT	05Y	
Integrity	DPPX COBOL Application Integrity Monitor	5798-DG2	1100									.GB21-2885	DPPX	15X	
INTELLECT	INTELLECT tm	5796-PMA	42000		2245							.G320-9161	VSE+5748-XXJ+PL/I	25X	
INTELLECT	INTELLECT tm	5796-PMC	57000		3050							.G320-9161	MVS+PL/I	25H	
INTELLECT	INTELLECT tm	5796-PME	57000		3050							.G320-9161	VM+PL/I	25H	
INTELLECT	INTELLECT tm	5796-PYH	57000		3050							.G320-0161	VM+SQL/DS	25H	
INTELLECT	INTELLECT tm	5796-PYJ	12375		663							.G320-0161	VM+PL/I+GDDM+SQL/DS	25H	
INTELLECT	INTELLECT tm Graphics	5796-PMB	12375		663							.G320-9161	SQL/DS+CICS/VSE	25H	
INTELLECT	INTELLECT tm Graphics Support	5796-PMD	12375		663							.G320-9161	MVS+GDDM+PGF+5796-PMC	25H	
INTELLECT	INTELLECT tm Graphics Support	5796-PMF	12375		663							.G320-9161	VM+GDDM/PGF+5796-PME	25H	
Intelligence	Distributed Intelligence System/7 - 370	5744-BK1	nc									GC34-0057	0S/VS	N05C	
-Intelligent	Intelligent Data Entry System	5798-NPY	759		69							12.GB30-1134	Series/1	15H	
-Intelligent	Intelligent Data Entry System II	5798-NXQ	2615		119							24.GB30-1352	Series/1	15H	
Intelligent	Intelligent Terminal Subsystem	5798-NLG			126							12.GB30-1032	Series/1	15H	
Intelligent	Intelligent Workstation Support 3101 Emu	5799-TGC	150									GC34-0545	PC/XT to S/1 to S/370	05X	
-Inter-Region	Inter-Region Access Method	5796-AYH			300							12.G320-6355	MVS WITH VSAPL	15H	
Interaction	Understanding Personal Interaction Style	6187-155	88										PC	05Y	
+Interactions	The Environment: Cycles & Interactions	6024-413	65										0520-1107	PC,XT,AT,PCjr+color	05Z

Keywords - Alphabetic Sequence

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Codes Explained in Appendix B



Keyword	Program Title	Number	OTC	ILC	MLC	DSO	PSI	DSH	MLP	MML	Mo	MoreInfo	Environment	TPLS
+Interactions	The Environment: Cycles & Interactions	6024-443	295									0520-1107	PC,XT,AT,PCjr+color	05Z
Interchange	Document Interchange - Host to Displayw	5799-BKE		1165	265							GC09-1037	DCF,PROFS+5608-SR9	25E
Interchg	Host to Displaywriter Document Interchg	5799-BXF	3315									GC09-1037	5796-PMP+5608-SR9	25D
Interchg	Host to Displaywriter Document Interchg	5799-BXG	6095									GC09-1037	5796-PRH+5608-SR9	25D
+Interconnect	Token-Ring Network/PC Interconnect	6466-B36	495										Token-Ring NETBIOS	05H
Interconnect	Token-Ring/PC Network Interconnect Progr	6476-B36	495									GA27-3677	PC,XT,AT+Net adaptrs	05M
+Interconnection	SNA Interconnection to 3725 Ver 3.4	5668-951		1605	465		1440	419	43	68		GC35-2023	NCP Ver2+VTAM Ver2	25K
+Interconnection	X.25 SNA Interconnection	5799-BZJ	37200										MVS	25M
Interest	Conflict of Interest Series 800	5793-ACQ	1650									.GB30-2415	S/36+5793ACL+ABZ	05H
Interest	Info Syst for Attny - Conflict Interest	5793-ADM	750									.GB30-6000	Client/Matter Record	05H
Interest	Info Syst for Attny - Conflict Interest	5793-AEH	2275									.GB30-6001	Client/Matter Record	05H
+Interf	3270-PC HighLevel Applic Prog Interf 3.0	59X9-959	195										3270-PC,3270-AT	05E
Interfaces	Advance Earned Income Credit Interfaces	5798-NYQ	575									.GB30-1395	System/34, System/32	15H
-Interfacing	APL - Based Products Interfacing Course	5798-DHH	1305									.GB21-2914	IIS, IIPS	1EX
+Interference	Investigating Wave Interference	6024-466	75									0520-1107	PC,XT,AT,PCjr+color	05Z
+Interfile	Data Interfile Transfer, Testing & Oprns	5665-370			270			230				.SH19-6112	MVS, XA	15M
Interfile	Data Interfile Transfer, Testing, Oprns	5746-UT3	968		44	748		34	5	8		.GH19-6072	DOS/VSE	15E
Intermediate	APT Intermediate Contouring	5740-M52			713							.GH20-1424	OS/V5	15K
Intermediate	APT Intermediate Contouring XT/370	5740-M52/01	1000		50								3011, 3012	05C
INTERPERS	Government Reporting / Tracking Feature	5740-AM4/01			297							.GH20-2151	6125,6126	25B
INTERPERS	Government Reporting & Benefits Tracking	5746-AM1/01	5760	1275	262							.GH20-2151	6080,4581,4601	25B
INTERPERS	Interactive Personnel System 2.2	5740-AM4	42130		1915							.GH20-5125	IMS/V5, CICS/OS/V5	25B
INTERPERS	Interactive Personnel System 2.2	5746-AM1	30800		1400							.GH20-2151	CICS/DOS/V5	25B
-Interpretation	ACF/VTAME Trace Interpretation	5798-DKH	495									.GB21-3023	DOS/VSE	15X
-Interpretation	3850 Trace Interpretation Package	5785-DBM	3300		250							.GB21-2541	MVS	11H
-Introduction	ADRS-II Introduction	5798-DFC	1385		105							.GB21-2780	IIS, IIPS	15H
-Introduction	ICCF/VSE Introduction	5798-BDX	660		60							12.GB21-2709	IIS, IIPS	1EH
-Introduction	ISD Introduction	5798-CKT	3375		256							.GB21-1924	IIS, IIPS	1EH
-Introductory	FriendlyWare (R) PC Introductory Set	6085-985	49									.GB30-2037	PC	05Y
+Introductory	Introductory Editor	6276-589	20										PC,XT,AT,PCjr,3270PC	05R
Introductory	MVS Introductory Base Offering	5751-CS3	varies									GC23-0127	5751-CS1	V 5
+Inv	Acctg Assistant Series - Inv Ctl & Purch	6317-053	595										PC,XT,ATk	05Z
+Inv	Acctg Assistant Series - Inv Ctl & Purch	6467-007	595										3.5" disk	05Z
+Inv	Auto Dealer, Parts Inv, Upg from 5796ZGZ	5796-ZNZ/01	1690									.GB30-6013	System/36	15H
Inv	Business Management Series Inv Training	6410-964	95										Inventory Accounting	05G
Inv	Distributors Mgt Acctg - Inv Ctl	5727-D43	3685		214	2765						.GH30-0690	CASS	15B
Inv	Distributors Mgt Acctg - Inv Mgmt	5727-D46	6435		371	4825						.GH30-0690	CASS+5727-D43	15B
Inv	Inv Mgmt Prod Rep & Ord Val Eval Improve	5714-D46	9975		349	7475		261				.GH50-0080	System/38	11D
Inv	Inv Mgt for Process - Upgr from 5727-M75	5727-M7N/02	15500			13640							.4082,9734	15E
Inv	Inv Mgt for Process - Upgr from 5727-M75	5727-M7N/03	11300			9944							.4083,9735	15E
Inv	Order Ent & Inv - Upgrade from MAPICS	5714-M79/01	2630										.4625,9617	15F
Inv	Over-the-Counter Inv & Accts Rec Inquiry	5726-DM5	2255									.GB30-2501	System/34	15C
+Inv Upgr	Auto Dealer, Parts Inv, Upgr from 5796ZGY	5796-ZNY/01	1100									.GB30-6013	System/36	15H
Inv	Inv Mgt for Proc - Upgr from 5727-M45	5727-M7N/01	17500										.4081,9737	15E
Inv	Inv/34	Inv/34 - Computer-Assisted Inventory	5798-NHX		488							12.GB30-1102	System/34	13H
Inventory	Accounting Solutions	6024-152	89									.0520-3917	PC,XT,PCjr,PPC	05Z
+Inventory	Acctg Assistant Series - Inventory Contr	6317-052	595										PC,XT,AT	05Z
+Inventory	Assistant Home Solutions	6024-150	69									.0520-3917	PC,XT,PCjr,PPC	05Z
+Inventory	Auto Dealer - Parts Inventory	5796-ZNZ	11800									.GB30-6013	System/36	15H
+Inventory	Business Adviser - Inventory Control Edi	6466-993	995										LAN or TokenRing	105G

Keyword	Program Title	Number	OTC	ILC	MLC	DSO	DSI	DSH	HLP	HML	Mo	MoreInfo	Environment	TPLS	
-Inventory	Business Management Series Inventory	6410-955	775									.GH30-9013	PC+10MB	.05G	
-Inventory	BICARSA Online	5798-RFR	5445		495							12.GB30-1667	System/34	15X	
-Inventory	BPI (R) Inventory Control	6187-167	795									.	PC	05Y	
-Inventory	BPI (R) Inventory Control	6187-214	50									.	PC	05Y	
+Inventory	Construction Inventory	5796-ZPP	3000									.GB30-6016	5727-M6X+M66	15H	
-Inventory	COPICS Inventory Accounting II	5785-GBE	3475		105							.GB21-2644.DOS/VSE	OS/V5 DL/I	15E	
-Inventory	COPICS Inventory Planning Forecasting II	5798-DCR	8575		259							.GB21-2650.DOS/VSE,OS/V5	DL/I	15E	
-Inventory	Dealer Parts Inventory Management	5798-RBG	6950		315						24.	.GB30-1498	System/34	15H	
-Inventory	Distribution Control - Inventory Control	5793-AAK	8360									.GB30-2064	5798-AAE	15X	
-Inventory	Distribution Control - Inventory Control	5793-ACF	8360		380							.GB30-2064	5793-ACA	15X	
+Inventory	Distribution Control System - Inventory	5793-ADH	9500									.GB30-6003	VSE+CommonFeat	15H	
+Inventory	Distribution Control System - Inventory	5793-ADJ	10000									.GB30-6003	VSE+CommonFeat	15H	
+Inventory	Distribution Control System - Inventory	5793-AFJ	9500									.GB30-6003	VSE+CommonFeat	15H	
+Inventory	Distribution Control System - Inventory	5793-AFK	10000									.GB30-6003	MVS+CommonFeat	15H	
-Inventory	Inventory - Computer-Assisted Inventory	5798-NMX			488							12.	.GB30-1102	System/34	15H
-Inventory	Inventory Accounting Mgmt Info Multi Ind	5715-XX6	1225									.GB30-2711	Sys/23	Datamaster	11X
-Inventory	Inventory Accounting - Disk	5715-X26	1790									.G280-0233	Sys/23	Datamaster	11X
-Inventory	Inventory Accounting	5726-XB9	1700									.G280-0233	System/34	11X	
-Inventory	Inventory Accounting	5727-XB6	1980									.GB30-2711	System/36	15B	
-Inventory	Inventory Accounting	6201-870	995									.SB30-3541	System/36	PC	05G
-Inventory	Inventory Control Distribution	5714-D43	4670		163	3505		123				.GH30-0150	System/38	11X	
-Inventory	Inventory Control Distributors	5726-D4C	2365		122							.GH30-0093	System/34	11X	
-Inventory	Inventory Control Lumber Dealers	5726-D4G	2150		111							.GH30-0166	System/34	11X	
-Inventory	Inventory Control Distributors	5726-D43	3515		143	2640		108				.GH30-0185	System/34	11X	
-Inventory	Inventory Control Food Distributors	5726-D67	2365		122							.GH30-0156	System/34	11X	
-Inventory	Inventory Control by BPI ta	6024-030	425									.G520-3917	PC	05Z	
-Inventory	Inventory Cycle Counting	5796-BDH	1980									.G320-9127	DOS/VSE	15X	
-Inventory	Inventory Forecasting & Replenishment II	5798-DDR	15110		687							24.GB21-2695	OS/V5, DOS/VSE	15H	
-Inventory	Inventory Forecasting for Manufacturers	5798-RDC	4840		440							12.	.GB30-1532	System/34	15H
-Inventory	Inventory Forecasting for Manufacturers	5798-RPR	6600		300							.GB30-2187	System/36	15X	
-Inventory	Inventory Management	5714-M45	3465		124	2595		92				.GH30-0708	System/38	11D	
+Inventory	Inventory Management	5714-M75	5750		290	5060						.GH30-9037	System/38	15E	
-Inventory	Inventory Management Upgrade from MAPICS	5714-M75/01	3280			2886						.GH30-0220	System/34	15E	
-Inventory	Inventory Management - Mfg	5726-M55	1575		77							.GH30-0220	System/34	11C	
-Inventory	Inventory Management	5726-M45	3685		143	2640		108				.GH30-0221	System/34	11X	
-Inventory	Inventory Management	5727-M45	3685		214	2765						.GH30-9002	CASS	15B	
+Inventory	Inventory Management for Process	5727-M7N	20000		1000	17600						.GH30-0998	System/36	15E	
-Inventory	Inventory Management	5727-M75	5500		275	4840						.GH30-9006	CASS	15E	
-Inventory	Inventory Management System	5796-ZFQ	7150									.GB30-2276	System/34	15X	
-Inventory	Make-to-Schedule for Inventory Mat	5798-RBR	3025									.GB30-2324	System/34	15X	
-Inventory	Make-to-Schedule for Inventory Mat	5798-RQT	3630									.GB30-2326	System/38	15X	
-Inventory	Make-to-Schedule for Inventory Mat	5798-RRY	3300									.GB30-2386	System/36	15X	
-Inventory	Make-to-Schedule Facility for Inventory	5798-RME	3300									.GB30-2386	System/36	15H	
-Inventory	MEDIA-FLEX Inventory Module Upgrade	5793-AGB/01	3000									.GB30-2037	6556	05Y	
-Inventory	Physical Inventory Enhancement	5798-RBN	1110		101							12.	.GB30-1506	System/34	15H
-Inventory	Physical Inventory Enhancement	5798-RPE	1395									.GB30-2230	System/36	15X	
-Inventory	Retail Inventory, Plan & Mdse. Syst	5796-ZFA			9995	3795						24.	.GB30-2207	System/38	15X
-Inventory	Retail Inventory Planning & Mdse	5796-ZGT	66000									.GB30-2319	System/36	15X	
-Inventory	School - Fixed Asset Inventory System	5796-ZGB	3960									.GB30-2268	5796-ZFY	15H	
-Inventory	School - Warehouse Inventory System	5796-ZGD	5280									.GB30-2268	5796-ZFY	15H	

Keywords - Alphabetic Sequence

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Codes Explained in Appendix B

Keyword	Program Title	Number	OTC	ILC	MLC	DSO	DSI	DSM	HLP	MHL	Mo	MoreInfo	Environment	TPLS		
Inventory	Schools Inventory Management System	5796-ZMC	3000										.GB30-6002 Financial Acctg Syst	15H		
+Inventory	SOLOMON III tm Inventory	5669-097	995										SV21-8041 General Ledger	05Z		
Inventory	Vehicle Maint - Parts Inventory	5796-R00	10600		968						12		.GB30-1680 System/38	15X		
+Investigating	Investigating Acceleration	6024-403	75										G520-1107 PC, PCjr, XT, AT+color	05Z		
+Investigating	Investigating Conservation of Energy	6024-406	75										G520-1107 PC, PCjr, XT, AT+color	05Z		
+Investigating	Investigating Electric Fields	6024-464	75										G520-1107 PC, XT, AT, PCjr+color	05Z		
+Investigating	Investigating Gravitational Force	6024-404	75										G520-1107 PC, PCjr, XT, AT+color	05Z		
+Investigating	Investigating Models of Light	6024-465	75										G520-1107 PC, XT, AT, PCjr+color	05Z		
+Investigating	Investigating Thermal Energy	6024-405	75										G520-1107 PC, PCjr, XT, AT+color	05Z		
+Investigating	Investigating Wave Interference	6024-466	75										G520-1107 PC, XT, AT, PCjr+color	05Z		
-Investm Tax Cr	Fixed Asset Accounting & Control II	5798-RJH	2310										.GB30-1787 System/34	15X		
Investment	RealEstate Investment Package	6276-597	20										PC, XT, jr, AT, PPC	05R		
Investor	Personal Investor (R)	6086-015	145										.GB30-2037 PC	05Y		
Invoices	Accounting Solutions	6024-152	89										.G520-3917 PC, XT, PCjr, PPC	05Z		
+Invoicing	Auto Dealer - Parts Invoicing	5796-ZNY	5500										.GB30-6013 System/36	15H		
Invoicing	Order Entry and Invoicing	5714-M49	4040		142	3175		105					.GH30-0708 System/38	11D		
+Invoicing	Order Entry and Invoicing	5714-M79	5520		280	4858							.GH30-9036 System/38	15E		
Invoicing	Order Entry and Invoicing - Mfg	5726-M39	1940		94								.GH30-0220 System/34	11C		
Invoicing	Order Entry and Invoicing	5726-M49	3935		161	2955		119					.GH30-0221 System/34	11X		
Invoicing	Order Entry and Invoicing	5727-M49	4125		238	3095							.GH30-9001 CASS	13B		
Invoicing	Order Entry and Invoicing	5727-M79	5280		264	4645							.GH30-9004 CASS	15E		
Inword	IX Inword	6316-970	475										.G320-0347 PC/IX	05H		
IPBF	Master Production Schedule Planning	5668-898	31500		1380								.GH30-0737 CICS+C080L+IMS, DL/I	15E		
IPCS	ACS On-Line / IPCS Integration	5796-ZHK	3300										.GB30-2258 System/36	15X		
IPCS	Integrated Production Control System	5796-ZFH	19250										.GB30-2261 System/36	15X		
IPCS	Interactive Problem Control	5746-SA1	880		40	660		26	6	11			.GC34-2017 DDS/VSE	15K		
IPCS	Interactive Problem Control System	5748-SA1	1100		55	787		36	6	10			.GC34-2019 VM/CMS	15K		
IPCS	SSX/VSE IPCS	5799-BNF/05	260		15	234		14					4872, 4873, 4874, 4875	25K		
+IPDS	IPDS Advanced Function	5799-CGK	300										System/36	15A		
+IPDS	IPDS Advanced Functions	5799-CGL	150										System/36 5364	05E		
+IPDS	IPDS Graphics-Text Merge	5799-CGP	150										System/36 5364	05E		
+IPDS	IPDS Graphics/Text Merge	5799-CGJ	200										System/36	15A		
IPDT	DPFX Integrated Procesng of Data & Text	5785-DEL	4600										.G320-0356 8100	15X		
IPDT	Integrated Processing of Data & Text V4	5665-347	29700		1760								.G320-0354 CICS/IMS+MVS+GDDM+PL	25E		
IPDT	Integrated Processing of Data & Text V6	5666-325	13200		748								.G320-0354 CICS/VSE+DCF+GDDM+PL	25E		
-IPDT	Integrated Processing of Data & Text V1	5785-DCT	18150		825							24	.GB21-2755 OS/VS, IMS, DCF	15H		
-IPDT	Integrated Processing of Data & Text V1	5785-DCX	10250		466								.GB21-2946 CICS/OS/VS	15E		
-IPDT	Integrated Processing of Data & Text V1	5785-DDD	6710		305								.GB21-2946 CICS/VSE	15E		
IPDT	Integrated Processing of Data & Text V2	5785-DEH			2700	667						24	.G320-0354 IMS/VS	25X		
IPDT	Integrated Processing of Data & Text V2	5785-DEJ			2400	667						24	.G320-0354 CICS/OS	25X		
IPDT	Integrated Processing of Data & Text V2	5785-DEK			2000	563						24	.G320-0354 CICS/VSE	25X		
IPF	Interactive Productivity Facility 5.3	5748-MS1	50									36	6	10	GH20-5304 5664+167, 5748-SA1	15K
IPF	IPF XT/370	5748-MS1/01	196		4										3004, 3010	05K
IPF	SSX/VSE IPF	5799-BNF/11	85		5	77		5							4896, 4897, 4898, 4899	25K
IP0	CADAM (R) Express	5750-VME	varies												GH20-6487 VM, 5080 or 3250	V15E
IP0	DPPX Application IPO	5750-BA2	varies												GH20-5307 DPPX	V
IP0	DPPX System IPO	5750-BA1	varies												GC20-1883 DPPX	V X
IP0	E/S (3) PF Release 2	5664-283	2000		107	1800									G520-0118 E/S (3)	25K
-IPO	Engineering/Scientific Support Sys-Entry	5750-ESE	varies												G520-0118 Replaced by VMES3	V05T
IP0	MVS/SP System IPO	5750-AAM	varies												GC20-1870 Replaced by CBIP0	V X

Keyword	Program Title	Number	OTC	ILC	MLC	DSO	DSI	DSH	MLP	MML	Mo	MoreInfo	Environment	TPLS
IPO	System IPO for OS/VSI Release 7	5750-AA8	varies									GC20-1861 5/370		V
IPO	VM/SP System Base Rel 2	5750-ES1	varies									G520-0118 VM		VOSM
IPO/E	VSE/System IPO/E	5750-AAP	varies									GC20-2003 VSE/System Package		V
IPS	Cryptographic Information Protection	5796-PPK		360	132							24.G520-6644 VM/CMS		15X
IQA	Information System Model & Architecture	5785-FBA	14300		650							.G320-9235 MVS,VM		15H
IQF	IMS/360 Interactive Query Facility Feat	5734-XX6/02	4032		336							12 GH20-1074 6068		25C
-IQRP	Interactive Query & Report Processor	5796-PDG	32890		1495							24.G320-1544 OS/V51,V52		15H
IRLM	IMS Data Base Prod (Includes IRLM)	5665-332/01			2400							1800 7001120	2116,4558,9558	25K
IRS Reports	Advance Earned Income Credit Interfaces	5798-NYQ	575									.GB30-1395 System/34, System/32		15H
-ISAM	ISAM to IMS/DB Bridge	5798-DBG	1815		165							12.GB21-2547 OS/V5		15H
ISMOD	Information System Model & Architecture	5785-FBA	14300		650							.G320-9235 MVS,VM		15H
IS06	Pascal Compiler Version 2	6024-128	385									0520-3917 D052+		05Z
ISPF	Interactive System Productivity Facil2.2	5664-282		575	189			431	141	9	14	.GC34-2181.VM		15K
ISPF	Interactive System Productivity Facil2.2	5665-319		690	218			517	163	30	48	.GC34-2136.MVS		15K
ISPF	ISPF / Program Development Facility	5664-172		1235	206			925	128	19	31	.GC34-2078 VM/CMS		15K
ISPF	ISPF / Program Development Facility	5665-268		1350	352			1015	264	30	48	.GC34-2078 MVS/TS0,MVS/XA		15K
ISPF	ISPF Program Development Facility 2.2	5665-317		4025	575			3015	431	14	22	.GC34-2136.ISPF		15K
ISPF	ISPF XT/370	5668-960/01	600									3007,3015		05C
ISPF	PANVALET tm (ISPF)	7798-PAN/01varies											IBM information Net	V05E
ISPF	Query Management Facility Release 2	5668-972		6420	1070			4812	802	58	93	GC26-4071 VM,MVS+GDDM+DB2,SQL		25K
ISPF	Resource Access Control Facility 1.7	5740-XXH			841			630	43	69		GC28-0722 MVS		25K
ISPF 1.1	Interactive System Productivity Facility	5668-960		960	96			720	70	15	24	.GC34-2078 CICS/VSE+ICCF		15K
-ISPF/PC	ISPF/PC Development Facility	6410-980	130									.0520-3917.EZ-VU Runtime		05X
+ISPF/PC	ISPF/PC II Development Subscriber Update	6265-484	30									0520-6006 6317026		05G
+ISPF/PC	ISPF/PC II Development Facility	6317-026	495									.0520-6006 Runtime (6317025)		05G
+ISPF/PC	ISPF/PC II Devt Nonsubscriber Updates	6265-485	55									0520-6006 6317026		05G
+ISPF/PC	ISPF/PC II Runtime Subscriber Updates	6265-486	30									0520-6006 6317025		05G
+ISPF/PC	ISPF/PC II Runtime Nonsubscrbr Updates	6265-487	55									0520-6006 6317025		05G
+ISPF/PC	ISPF/PC II Runtime Facility	6317-025	59									.0520-6006 All except PCjr		05G
-ISPF/PC	ISPF/PC Runtime Facility	6316-969	55									.GC34-4001.PC,PCjr,3270-PC,AT		05X
ISPF/PDF	ISPF / Program Development Facility	5664-172		1235	206			925	128	19	31	.GC34-2078 VM/CMS		15K
ISPF/PDF	ISPF / Program Development Facility	5665-268		1350	352			1015	264	30	48	.GC34-2078 MVS/TS0,MVS/XA		15K
ISPF/PDF	ISPF Program Development Facility 2.2	5665-317		4025	575			3015	431	14	22	.GC34-2136.ISPF		15K
ISPF/PDF	ISPF/Program Development Facility 2.2	5664-285	10450	3780	540	9405	2835	404	10	16		.GH34-2181.VM		15K
ISPF/PDF	ISPF/Program Development Facility 1.1	5666-281		960	150			720	111	15	24	.GC34-2078 VSE+ICCF		15K
ISPF/PDF	ISPF/PDF for XT/370	5664-172/01	990									3001,3000		05C
ISPF/PDF	ISPF/PDF PC Editor	6466-974	150									EZ-VU Runtime		05G
ISPF/Program	ISPF/Program Development Facility 2.2	5664-285	10450	3780	540	9405	2835	404	10	16		.GH34-2181.VM		15K
ISPF/Program	ISPF/Program Development Facility 1.1	5666-281		960	150			720	111	15	24	.GC34-2078 VSE+ICCF		15K
ISQL	Query Management Facility	5666-292		4280	642			3850	577	89	142	GH24-5033 SQL+5746-XX3+GDDM		25K
Italian	DisplayWrite/36 Italian Dictionary	5727-WP2/04	120			105							4763,6064	15A
Italian	DM/36 Italian Dictionary	5727-WP7/05	90										0580-0570 4787	05H
Italian	Language Dictionaries	5714-DCT	195			172						GC09-1021 5714-WP2		15A
ITC	ITC Korinna tm	5771-ACD	1280									0520-0004 CDPF		15E
ITC	ITC Souvenir tm Version 2	5771-ACC	960									0520-0004 CDPF		15E
ITC	ITC Souvenir tm Upgrade from Ver 1 to 2	5771-ACC/01	320									4522		B15E
ITC	4250 ITC Avant Garde Gothic tm	5771-AAA	640									0520-0004 CDPF (5668-997)		11E
ITC	4250 ITC Souvenir tm	5771-AAQ	640									0520-0004 CDPF (5668-997)		11E
Item	PCPS / Return Item Feature	5734-F11/02		8825	882							2101,4555		25B
Item	EDX Store Item Receiving System	5719-DS0	1600									.SB30-7013 COBOL+5719-TR1		25E

Keywords - Alphabetic Sequence

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Codes Explained in Appendix B

Keyword	Program Title	Number	OTC	ILC	MLC	DSO	DSI	DSH	MLP	MHL	Mo	MoreInfo	Environment	TPLS
Item	EDX Store Item Management	5798-RTE	1000									.GB30-2405	Series/1	15H
Item	Financial- Open Item Acctg A/R A/P Rel 3	5668-969	9855		448							.GH20-2467	CIGS+IMS+PL/1	15B
Item	Open Item Accounting A/R A/P Rel 3	5746-F54	8775		399							.GH12-5120	CIGS+DL/I+PL/1	15E
Items	All Items File Translation Facility 3694	5798-RFJ	1210		110							12.GB30-1645	System/34+5748-F53	15X
Items	All Items File Translation Facility 3694	5798-RQH	1650									.GB30-2238	5/3645748-F53	15X
IX	IX BASIC	5796-TBA	3500									.G320-0811	IX/370	15H
IX	IX COBOL	5796-TAZ	6000									.G320-0809	IX/370	15H
IX	IX CONNEXION Compiler (DIBOL tm)	6317-043	850									.G320-0912	PC/IX	05H
IX	IX CONNEXION Compiler (DIBOL tm)	6317-062	975									.G320-0912	XENIX tm	05H
IX	IX CONNEXION Runtime (DIBOL tm)	6317-044	425									.G320-0912	6317043	05H
IX	IX CONNEXION Runtime (DIBOL tm)	6317-063	500									.G320-0912	6317062	05H
IX	IX Integrated WORD/MATH	5796-TAT	12000									.G320-0814	IX/370	15H
IX	IX Integrated WORD/MATH	6316-989	659									.3209-223	PC/IX	05H
IX	IX Inword	6316-970	475									.G320-0347	PC/IX	05H
IX	IX INFORMIX tm	5796-TBE	14000									.G320-0803	IX/370	15H
IX	IX INFORMIX Embedded Query for COBOL	5796-TAY	9000									.G320-0803	IX-COBOL	15H
IX	IX Pascal	5796-TBB	4800									.G320-0816	IX/370	15H
IX	IX ProChart	5796-TBC	16000									.G320-0816	IX/370	15H
IX	IX RM/COBOL tm Compiler & Runtime Interp	6316-996	825									.3209-234	PC/IX	05H
IX	IX RM/COBOL tm Run Time Interpreter	6316-997	249									.3209-234	PC/IX	05H
IX	IX UltraCalc (R)	5796-TAH	10000									.SH20-6938	IX/370	15H
IX	IX UltraCalc (R)	6317-039	350									.G320-0975	PC/IX	05H
IX	IX UltraCalc (R)	6317-040	395									.G320-0975	XENIX tm	05H
IX	IX UltraCalc (R)	6317-038	800									.G320-9223	XENIX tm	05H
IX	Series/1 Interactive Executive	5719-UNI	6500									.GA34-0298	4956 Processor	15L
IX/INFORMIX	IX/INFORMIX Embedded Query for C	5796-TBD	9000									.G320-0803	IX/INFORMIX	15H
IX/370	Interactive Executive for System/370	5667-126	10000						495	792		.GC33-6207	VM+Series/1	72SK
+IX/370	Interactive Executive 3270-PLUS	6317-060	995									.G320-0837	AT+Xenix+SDLC adaptor	05H
+Javelin	Javelin tm	6086-012	695									.GB30-2037	PC, XT, AT, 3270-PC	05Y
JCL	JCL Conversion Aid from VSE to MVS or XA	5798-DPH	11000		500							.G320-0440	VSE and MVS	15H
JCL	OS/VS JCL, Learning to Code	5798-DAJ	1250									.GB21-2508	I15,I1P5	1EH
JCL	S/3 OCL to DOS/VS JCL Conversion Aid	5798-CQJ	660									.GB21-2130	DOS/VS	05H
JDCA	SMF Job Data Compression Aid	5796-PHN	4290		187							.G320-5714	OS, OS/VS, MVS/XA	11X
JEP	Job Entry Program	5746-XE6	258						193	38	61	.GH12-5129	DOS/VS	15K
-JES/328x	JES/328x Print Facility	5785-BAB	2750									.GB21-3059	Replaced by 5785-BAC	15K
+JES/328x	JES/328x Print Facility Version 2	5785-BAC	5500									.G320-9500	MVS	15H
JES2	JES2 Information Retrieval System - CMS	5796-AYD	3960									.G320-6334	VM/CMS	15H
JES2	MVS/SP - JES2 1.1	5740-XYS	2150					1612	117	187		.GC28-1395	5752-V52	25K
JES2	MVS/SP JES2 Version 2.1.7	5740-XC6	12840	4280				9360	3210	6731077		.GC28-1118	Ni th 5665-XA2	25K
JES2	MVS/SP/JES2 1.3.5 and 1.3.6	5740-XYS/02	2170					1627	240	384		.GC28-1025	4525,6143,9525	25K
JES2	Network Job Entry for JES2	5740-XR8	807						605	96	154	.GC23-0010	MVS	15K
JES2	Remote Spooling Communications / SNA	5798-DMJ	4950									.GB21-3050	VM+RSCS	15X
JES2	TSO / JES2 Batch Display Facility II	5798-DMB	1650									.GB21-3037	MVS	15X
JES3	JES3 Monitoring Facility II	5796-PLW	5080									.G320-6159	MVS, MVS/XA	15E
-JES3	JES3 Networking PRPQ	5799-AZT	2055						1545	326	522	.GH20-2204	NJE	25K
JES3	MVS/SP - JES3 1.1	5740-XYN	2150					1612	117	187		.GC28-1395	5752-V52	25K
JES3	MVS/SP - JES3 1.2 or 1.3	5740-XYN/01	230					172	400	640		.GC28-1395	6144,6524	25K
JES3	MVS/SP - JES3 Version 2.1.7	5665-291	14430	4810				10821	36071	13352136		.GC28-1118	DFP 5665-XA2	25K
JES3	MVS/SP/JES3 1.3.5	5740-XYN/02	2380					1784	517	827		.GC28-1025	4524,9524	05K
JMF II	JES3 Monitoring Facility II	5796-PLW	5080									.G320-6159	MVS, MVS/XA	15E

Keyword	Program Title	Number	OTC	ILC	MLC	DSO	DSI	DSH	MLP	MML	Mo	Moreinfo	Environment	TPLS
+Job	Accts Assistant Series - Job Costing	6317-054	595										PC,XT,AT	05Z
+Job	Acctg Assistant Series - Job Costing	6467-008	595										3.5" disk	05Z
Job	BPI (R) Job Cost	6187-168	795										PC	05Y
Job	BPI (R) Job Cost	6187-215	50										PC	05Y
Job	Communicating Job Stream Processor	5798-RFC	715										GB30-1628 Series/1	15H
-Job	Construction Information - Job Costing	5796-ZAP	1705										GB30-1728 Sys/23 Datamaster	11H
-Job	Construction Info System - Job Costing	5796-ZDY	2165										GB30-2082 Datamaster+5247	15X
-Job	CPS Remote Job Entry	5798-NPZ	341		31								12 GB30-1154 Series/1	15H
Job	Data Dictionary Job Stream Processor	5798-DQN	7150		325								GB30-0355 MVS	15H
Job	DPFX Remote Job Entry Workstation	5760-XC1	1175		45	998		38	20	32			GC30-3053 DPFX to OS,VSE,VM	15K
Job	EDX Advanced Remote Job Entry	5719-RJ1	1050		66								GC34-0458 S/1+MVS,VM,DOS/VSE	15X
Job	Job Analysis System	5726-XP1	5090		207	3820		154					GH30-0511 System/34	15X
Job	Job Analysis System	5798-RRH	3025										GB30-2309 System/36	15X
Job	Job Cost System by BPI tm	6024-029	550										GB50-3917 PC	05Z
Job	Job Costing	5727-M66	2475		145	1855							GB30-9003.CASS	15B
Job	Job Costing - Construction	5726-M61	1310		62								GH30-0707 System/34	11C
Job	Job Costing - Construction	5726-M66	2360		98	1770		73					GH30-0707 System/34	11D
Job	Job Entry Program	5746-XE6			258			193	38	61			GH12-5129 D05/VSE	15K
Job	Job Placement Match	5796-PXN	6490										GB30-0329 VSE	15H
Job	Network Job Entry for JES2	5740-XR8			807			605	96	154			GC23-0010 MVS	15K
Job	Remote Job Entry Facility	5714-RC1	5000		185	4400		163					GC21-7916 System/38	15A
+Job	Remote Job Entry Release 1	5732-003	3540										SC16-0680 System/88	15M
Job	Remote Job Entry Workstation	5746-RC9	3780		135								GH20-2199 VSE To VM,OS/V5	15B
-Job	Remote Job Entry Workstation RJE	5799-HMX	nc										GH20-1574 D05/V5	N05C
Job	RPS Advanced Remote Job Entry	5719-RJ6	1050		36								GC34-0459 Series/1	15X
Job	RPS Job Stream Processor	5799-TEC	535		13								GC34-0398 Series/1	15E
Job	SMP Job Data Compression Aid	5796-PHN	4290		187								GB30-5714 OS, OS/V5, MVS/XA	11X
+Job	SOLOMON III tm Job Costing	5669-094	1395										SV21-8041 General Ledger	05Z
Job	SSP Multiple Session Remote Job Entry	5727-SS6/03	1440			1080							GB50-0570 4774	05H
Job	Timberline Job Cost	6871-524	2390										GB20-2037 PC,XT,AT	05Y
Job	VSE/POWER Remote Job Entry Version 2	5746-XE3/01	3100		119	2325		107	23	37			GH12-5131 4564,4562,6502,6534	15K
Jobs	Chained Jobs Scheduling	5785-GAK	11320		858								GB21-2869 OS/V5	15H
Journal/ledger	Accounting Solutions	6024-152	89										GB50-3917 PC,XT,PCjr,PPC	05Z
JoyMouse	JoyMouse	6276-606	15										PC,XT,jr,AT+Joystick	05R
Juggles'	Juggles' Butterfly tm (Feature 4095)	6024-095	39										GB50-3917 PC,PCjr,XT	05Z
Jury	Voter Registration / Jury Selection Syst	5796-PXM	12100										GB50-0339 System/34,36+COBOL	15H
+JustEdit	JustEdit	6276-590	20										PC,XT,AT,PCjr	05R
Kaleidoscope	Kaleidoscope	6276-519	15										PC,XT,jr,PPC,3270-P	05R
Karel	Karel the Robot	6024-066	150										GB50-1107 PC,XT,PCjr,PPC	05Z
Katakana	Network Communications Control Facil V2	5668-947			2250	375		2010	335	55	88		GC27-0637 MVS+VTAM,TCAM	15K
Kernel	Graphical Kernel System	6024-203	319										GB50-1107 PC,XT,PPC,AT+DOS 2.1	05Z
-Key-to-disk	Intelligent Data Entry System II	5798-NXQ	2615		119								24 GB30-1352 Series/1	15H
Keyboard	Voice-Activated Keyboard Utility	6280-742	99										PC,XT,AT+VoiceComOpt	05Z
Keyword	Storage & Information Retrieval System	5664-189			1650	575		1235	375				GH12-5147 VM+ISPF,XT/370	15M
Kindergarden-1	Writing to Read	6360-700	725										GB50-1107 PCjr+Speech attachmt	05Z
+Kinematics	CATIA (R) Kinematics 2.2	Unitd CSTU	5668-835		1410	470		993	331				CATIA Base	15E
Kit	BL Accounting Kit	6187-293	2995										PC	05Y
Kit	BPI (R) Upgrade Kit 195	6187-260	195										PC	05Y
Kit	BPI (R) Upgrade Kit 195	6187-261	295										PC	05Y
Kit	CAMM tm System Kit	5793-AFY	200										GB30-2037 5531, 7531, 7532	05Y

Keywords - Alphabetic Sequence

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Codes Explained in Appendix B

Keyword	Program Title	Number	OTC	ILC	MLC	DSO	DSI	DSH	MLP	MML	Mo	MoreInfo	Environment	TPLS
Kit	Displaywriter/PC Attach Convenience Kit	6403-728	495									0544-2280	Textpack4+6024107	05E
Kit	Pers DS Plans+ Upgrade Kit (from Plans)	6410-939/01	150										.Plans	05G
Kit	Rags to Riches Dealer Selling Kit	6187-306	15										PC	05Y
+Kit	Token-Ring Network Bridge Install Kit	6476-041	3285									GA27-3677	2 TR Nets+AT,AT-Ind	05M
Kit	3278-PC Upgrade Kit - from 1.2	6217-355/01	60										3015	05H
Kit	5250 Emulation Convenience Kit	6092-656	745									0520-1107	PC+S/34,38	05X
Kit	5520 Attach Kit V5 (Feat 2896) Incl 289	6403-724	875									0520-3917	All except PCjr	05C
Kit	5520 Installation Convenience Kit	6109-558/01	729										2882	05E
Kit	5520 PC Attach Installation Kit	7033-703/01	893									0570-2026	2890	05Z
Knowledge	Word Knowledge Skills (Private Tutor)	6024-327	55									0520-1107	PC,PCjr,XT,AT,PPC	05Z
Korinna	ITC Korinna tm	5771-ACD	1280									0520-0004	CDPF	15E
+KRIGPAK	UNIRAS tm KRIGPAK	5669-111	3550										GEOPAK	05Y
+L/LM	Location/Lot Management	5727-M7P	4200			210	3696					.GH30-9006	System/36	15E
Labor	Payroll and Labor Costing - Construction	5726-M69	4250			173	3190	129				.GH30-0707	System/34	11D
Labor	Payroll And Labor Costing	5727-M69	4455			257	3340					.GH30-9003	CASS	15B
-Laboratory	EDX Laboratory Automation	5798-RHB	3960			300					12	.GB30-1688	Series/1	15X
Laboratory	Laboratory Data Management System II	5796-AWC	36540			1665						.G520-6080	VSE+CICS	15H
Laboratory	Laboratory Data Acquisition System	5796-AWH				925						24	.G320-6095	VSE
Laboratory	Laboratory Data Acquisition System	5796-AWH				925						24	.G320-6095	VSE
Laboratory	LIMS Normal Value / Delta Checking	5798-BCB	4715			429					12	.GB21-2602	5796-APB,5796-AWC	15H
LABTECH	LABTECH NOTEBOOK (R)	6187-324	895									.GB30-2037	PC,PC/XT,AT	05Y
+Ladder	Allen-B PLC-2 Ladder Up/Downline Loading	5793-ACX/01	350										Industrial PC	05Y
+Ladder	Allen-Bradley PLC-2 Ladder Logic Documen	5793-ACX	2500										Industrial PC	05Y
+Ladder	Allen-Bradley PLC-3 Ladder Logic Documen	5793-AGC	2500										Industrial PC	05Y
+Ladder	Allen-Bradley 1774PLC Ladder Logic Docum	5793-ACH	1250										Industrial PC	05Y
+Ladder	Modicon Micro-84 Ladder Logic Documentat	5793-AHD	1250										Industrial PC	05Y
+Ladder	Modicon 484 Ladder Logic Documentation	5793-AHE	1250										Industrial PC	05Y
+Ladder	Modicon 584/884/984 Ladder Logic Documen	5793-AHF	2500										Industrial PC	05Y
+Ladder	Texas Instruments Ladder Logic Documenta	5793-AHG	2500										Industrial PC	05Y
+LAN	PC Local Area Network Program 1.1	6280-083	125									G227-6002	PC,XT,AT	05Z
-LAN	PC LAN Upgrade from PC Network 6024195	6280-084	65									G227-6002	PC Network	05Z
-LAN	PC LAN Upgrade from PC Network 6024195	6280-084	65									G227-6002	PC Network	05Z
+LAN	PC/Classroom LAN Administration Syst 1.0	6024-159	995										Advanced NetWare 2.0	01Z
LAN	Series/1-PC Connect	5719-CN1	400									0520-0102	RPS and DOS	15L
+LANAE	Bus Mgt Series Local Area Network Access	6410-965	245									.G580-2002	PC Network	05G
+Land	Land Ownership Tax Mapping	5796-PXK	10000									.G520-0359	Graphic Prog Generat	25H
LANDSAT	High Level Image Processing System	5785-ABB	13530			615						.G520-9211	VM/PL/1+HBUS+7350	15H
+Landslides	Landslides 1.0	6024-324	60									0520-1107	PC,XT,AT,PCjr,PPC	05Z
Language	A Programming Language - APL	5748-AP1				386		289	41	66		GH20-9064	Replaced by 5668-899	15K
Language	Assembly Language	5708-AS1	1750			55	1310		41			GC21-7801	5280 Data System	15X
-Language	APL Econometric Planning Language	5796-PDB	2705			246					12	.G520-5555	APLSV	11H
Language	C (programming language compiler)	6871-466	350									.GB30-2037	PC,XT,3270-PC	05Y
Language	CICS/DOS/VS Faster Language Facility	5746-XXS/01				120						0H20-1502	6019	25C
Language	CICS/OS/VS Faster Language Facility Feat	5740-XXI/01				128						0H20-1502	6022,6023	05C
-Language	Data Dictionary Language Preprocessor	5798-DEQ	660			60					12	.GB21-2758	OS/VS	15H
-Language	Data Dictionary Language Preprocessor	5798-DHG	808									.GB21-2902	DOS/VSE,DL/I	15X
Language	Data Language / I	5746-XX1				459			344	149	238	0H20-1246	VSE,SSX	25K
Language	Data Language / I Entry	5746-XX7	10290			468	7740		320	22	35	.GH12-5115	DOS/V5	25X
Language	Dynamic Simulation Language XT/370	5798-PXJ/01	1000			45							3044,3045	05C
Language	DH/36 Language Dictionaries	5727-NP7	nc									.G580-0570	System/36 PC	NO5H

Keyword	Program Title	Number	OTC	ILC	MLC	DSO	DSI	DSH	MLP	MHL	Mo	MoreInfo	Environment	TPLS
Language	EDX High-Level Language Transaction	5798-RJF	660									.0B30-1896	Series/1	15X
+Language	FORTRAN Language Conversion Program	5668-864	28000									SC23-0145	VM,MVS,XA+DFP	05E
Language	General Markup Language Product Aid	5798-DKD	3045		337	131						.0B21-2978	5748-XX9	15X
Language	Helvetica tm - Language Extentions	5771-ACF	4500									G520-0004	CDPF	15E
-Language	High Level Language Applic Prog Interfoc	1753-180	139									.G520-1107	3270-PC CP+DOS2	05H
Language	Language Dictionaries	5714-DCT	195					172				GC09-1021	5714-MP2	15A
Language	Language Extension System-Assembler	6276-584	25										PC,XT,jr,AT,PPC	05R
Language	Language Skills	6024-084	55									G520-1107	Private Tutor 2.00	05Z
Language	Monotype Garamond(R) Language Extensions	5771-ACH	3000									G520-0004	CDPF	15E
Language	Monotype Rockwell(R) language Extensions	5771-ACG	3000									G520-0004	CDPF	15E
Language	Monotype Times New Roman Language Extens	5771-ACX	3000									G520-0004	CDPF	15E
+Language	Multipurpose Autoring Language	6276-585	100										PC,XT,AT,PCjr,3270PC	05R
Language	Overlay Generation Language Release 1	5665-308			801	267				88	141	0520-5023	MVS+3800,3820	21K
Language	Overlay Generation Language Release 1	5666-324			750	250				80	128	0544-3088	VSE+3800/3820	21K
Language	Problem Statement Language and Analyzer	5796-BDX	49500									.G320-2719	VM,MVS	15H
-Language	PL/I Language Construction Preprocessor	5796-PLL	1690		154							12.G320-6096	OS/V5, VM/CMS	15H
Language	RPS Ver 4 with Command Language	5719-PC4	3230		79							GC34-0202	Series/1	15C
Language	RPS Ver 4 without Command Language	5719-PC4/01	2475		60							GC34-0202	9572,9573	15C
Language	RPS Ver 5 with Command Language	5719-PC5	4940		187							GC34-0351	Series/1	15X
+Language	THE FIX C Language Data Base Access	5793-AGG/14	395									.0B30-2027	6596	05Y
+Language	THE FIX C Language Data Base Access	5793-AGH/02	395									.0B20-2037	6596	05Y
Language	3650/3680 Language and Host Services 1.2	5668-912		4280	444			3210	333	110	176	GA27-3213	VSE,OS/V5+BTAM,VTAM	15K
Language/Edit	Structured Query Language/Edit	5798-DPJ	2750									.G320-9184	SQ/DS	15X
Language/Edit	Structured Query Language/Edit	5798-DQY	3850									.G320-0348	VM/SQ/DS	15H
+Language/RT	Structured Query Language/RT Data Base	5669-058	1000									SV21-8033	RT AIX+Data Mgt	05H
Language/TransACP	Programming Language/Transaction 1.1	5796-PTN		5000	1435							24.G320-9148	MVS,VM+ACP/TPF	15H
+Language/VM	Overlay Generation Language/VM	5664-293	7670		295							G520-5102	VM	25M
Language/VS	Dynamic Simulation Language/VS	5798-PXJ	10000		454							.G320-0357	VM,MVS,XT/370	15H
-Languagepack	Languagepack	5608-SR4	335									0544-0851	Displaywriter	05E
-Languagepack	Languagepack 2	5608-SR7	450									0544-0851	Displaywriter	05E
Languages	RPS ADS Additional Languages (per each)	5719-U21/02	1060		70								4000,5000	15H
Languages	Waterloo and MATCOM Languages	5793-AAP	4950									.0B30-2359	DOS	05F
Languages	Waterloo and MATCOM Languages for VM	5793-AAP/01	6600										9504	05F
Law	Info Syst for Attny - Law Firm Finance	5793-AEB	1000									.0B30-6000	Controller System	05H
Law	Info Syst for Attny - Law Firm Finance	5793-AEP	2860									.0B30-6001	Control+Client Fin	05H
Law	Law Firm Financial Management	5793-ABA	4800									.0B30-2151	5793-ABZ	05X
Law	Law Firm Financial Management Series 800	5793-ACJ	2200									.0B30-2415	System/36+5793-ABZ	05H
Law	Law Firm Financial System	6187-250	450									.0B30-2037	PC,XT,AT	05Y
Law	Law Firm Financial Management	6187-268	100										PC	05Y
Law	Law Firm Library Management	5793-ABJ	6270									.0B30-2160	5793-ABZ	05X
Lawyer	Client & Lawyer Financial System	6187-248	975									.0B30-2037	XT,AT	05Y
Lawyer	Client and Lawyer Financial	6187-266	100										PC	05Y
Lawyer	Info Syst for Attny - Controller System	5793-ADR	175									.0B30-6000	System/36 PC	05H
Lawyer	Info Syst for Attny - Client/Matter Recd	5793-ADT	500									.0B30-6000	Controller	05H
Lawyer	Info Syst for Attny - Conflict Interest	5793-ADM	750									.0B30-6000	Client/Matter Record	05H
Lawyer	Info Syst for Attny - Stat Dates (Docket)	5793-ADX	750									.0B30-6000	Client/Matter Record	05H
Lawyer	Info Syst for Attny - Client Statements	5793-ADY	100									.0B30-6000	Client Finance Mgt	05H
Lawyer	Info Syst for Attny - Accts Rec & Collec	5793-ADZ	200									.0B30-6000	Client Finance Mgt	05H
Lawyer	Info Syst for Attny - Lawyer Finance Mgt	5793-AEA	750									.0B30-6000	Client Finance Mgt	05H
Lawyer	Info Syst for Attny - Lawyer Finance Mgt	5793-AEA	750									.0B30-6000	Client Finance Mgt	05H

Keywords - Alphabetic Sequence

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Codes Explained in Appendix B



Keyword	Program Title	Number	OTC	ILC	MLC	DSO	DSI	DSH	MLP	MML	Mo	MoreInfo	Environment	TPLS
Lawyer	Info Syst for Attny - Law Firm Finance	5793-AEB	1000									.GB30-6000	Controller System	05H
Lawyer	Info Syst for Attny - Client Finance Mgt	5793-AED	2250									.GB30-6000	Controller System	05H
Lawyer	Info Syst for Attorneys - Controller Sys	5793-AEF	175									.GB30-6001	System/36 PC	05H
Lawyer	Info Syst for Attny - Upgr from 5793-ADR	5793-AEF/01	20									.GB30-6001	4501	05H
Lawyer	Info Syst for Attny - Client/Matter Recd	5793-AEG	1375									.GB30-6001	Client Finance Mgt	05H
Lawyer	Info Syst for Attny - Conflict Interest	5793-AEH	2275									.GB30-6001	Client/Matter Record	05H
Lawyer	Info Syst for Attny - Upgr from 5793-ADM	5793-AEH/01	1600									.GB30-6001	4515	05H
Lawyer	Info Syst for Attny - Stat Dates (Docket)	5793-AEJ	2275									.GB30-6001	Client/Matter Record	05H
Lawyer	Info Syst for Attny - Upgr from 5793-ADX	5793-AEJ/01	1600									.GB30-6001	4513	05H
Lawyer	Info Syst for Attny - Client Statements	5793-AEK	250									.GB30-6001	Finance Mgt	05H
Lawyer	Info Syst for Attny - Upgr from 5793-ADY	5793-AEK/01	160									.GB30-6001	4511	05H
Lawyer	Info Syst for Attny - Accts Rec & Coll	5793-AEL	575									.GB30-6001	Lawyer Finance Mgt	05H
Lawyer	Info Syst for Attny - Upgr from 5793-ADZ	5793-AEL/01	395									.GB30-6001	4509	05H
Lawyer	Info Syst for Attny - Lawyer Finan Mgt	5793-AEN	2290									.GB30-6001	Contrlr+Client Fin	05H
Lawyer	Info Syst for Attny - Lawyer Finan Mgt	5793-AEN	2290									.GB30-6001	Contrlr+Client Fin	05H
Lawyer	Info Syst for Attny - Upgr from 5793-AEA	5793-AEN/01	1615									.GB30-6001	4507	05H
Lawyer	Info Syst for Attny - Law Firm Finance	5793-AEP	2860									.GB30-6001	Contrlr+Client Fin	05H
Lawyer	Info Syst for Attny - Upgr from 5793-AEB	5793-AEP/01	1960									.GB30-6001	4505	05H
Lawyer	Info Syst for Attny - Client Finance Mgt	5793-AEQ	6400									.GB30-6001	Controller	05H
Lawyer	Info Syst for Attny - Upgr from 5793-AED	5793-AEQ/01	4375									.GB30-6001	4503	05H
Lawyer	Info Syst for Attny - Litigation Support	5793-AER	2850									.GB30-6001	Controller	05H
Lawyer	Info Syst for Attny - Library Management	5793-AET	2850									.GB30-6001	Controller	05H
Lawyer	Info Syst for Attny - Research/Retrieval	5793-AEH	2850									.GB30-6001	Controller	05H
Lawyer	Lawyer Financial Management	5793-ABB	3870									.GB30-2151	5793-AAZ+ABZ	05X
Lawyer	Lawyer Financial Management Series 800	5793-ACK	1650									.GB30-2415	S/3645793ACH+ABZ	05H
Lb50-2419	Public Sector Payroll & Personnel Accts	5710-GA5	4400										System/36	15I
LDAS	Laboratory Data Acquisition System	5796-AMH			925						24.6320-6095	VSE		15H
LDMAS	Accounts Receivable Lumber Dealers	5726-D4F	1650		86						.GH30-0166	System/34		11X
LDMAS	Billing Lumber Dealers	5726-D4E	2400		125						.GH30-0166	System/34		11X
LDMAS	Inventory Control Lumber Dealers	5726-D4G	2150		111						.GH30-0166	System/34		11X
LDMAS	Sales Analysis lumber Dealers	5726-D4H	2150		111						.GH30-0166	System/34		11X
LDMS	Laboratory Data Management System II	5796-AMC	36540		1665						.G320-6080	VSE+CICS		15H
LDMS	Laboratory Data Acquisition System	5796-AMH			925						24.6320-6095	VSE		15H
LDMS	LDMS Normal Value / Delta Checking	5798-DCH	4715		429						12.0B21-2602	5796-APB,5796-AMC		15H
LDMS II	Laboratory Data Management System II	5796-AMC	36540		1665						.G320-6080	VSE+CICS		15H
LDMS II	LDMS Normal Value / Delta Checking	5798-DCH	4715		429						12.0B21-2602	5796-APB,5796-AMC		15H
LDS	Legal Diary System	5796-BTT	49500									CICS/05/VS		25X
Leading	Leading Effectively	6871-528	113									PC		05Y
Leaf	Leaf Structure & Physiology (Biol Series	6024-318	65									6520-1107	PC,PCjr,XT,AT,PPC	05Z
Leaf	Leaf Structure & Physiology (Biol Series	6024-388	295									6520-1107	PC,PCjr,XT,AT,PPC	05Z
Learn ADMSA	Graphics Terminal Emulator	6024-206	319									6520-1107	PC,XT,PPC,AT+D052.1+	05Z
Learn	Listen to Learn	6024-165	195									6520-1107	PC,PCjr,XT,AT,PPC	05Z
Learner	Logo Learner	6024-136	110									6520-1107	PC,PCjr,XT,AT,PPC	05Z
Learning	DOS 2 Learning to Use	6024-080	15									6520-3917	PC	05Z
Learning	Learning DOS	6024-063	45									6520-1107	PC,XT,PCjr,AT,PPC	05Z
Learning	05/VS JCL, Learning to Code	5798-DAJ	1250									.GB21-2508	IIS,IIPS	1EH
Learning	Programmed Inquiry Learning or Teaching	6316-973	219									.6520-1107	PC,XT,AT,PPC,PCjr	05H
+Learns	Bouncy Bee Learns Letters	6024-137	70									6520-1107	PC,XT,AT,PPC,PCjr	05Z
+Learns	Bouncy Bee Learns Words	6024-139	70									6520-1107	PC,XT,AT,PPC,PCjr	05Z
-Lease	Lease vs Purchase Analysis	5798-AJK	407		37							12.0B21-0541	D05/05	15H

Keyword	Program Title	Number	OTC	ILC	HLC	DSO	DSI	DSM	HLP	HML	Mo	MoreInfo	Environment	TPLS
+Leasing	Auto Dealer - Leasing	5796-ZPB	5300									.GB30-6013	System/36	15H
+Leasing	Auto Dealer, Leasing, Upg from 5796-ZHB	5796-ZPB/01	50									.GB30-6013	System/36	15H
Ledg	Business Management Series Gen Ledg Trng	6410-959	95									.GH30-9016	General Ledger	05G
Ledger	Commercial Bank General Ledger Accounting	5746-F64				269						.GH20-2497	DOS/VSE+CBAS Base	15X
-Ledger	Construction Information - Gen Ledger	5796-ZAT	1705									.GH30-1728	Sys/23 Datamaster	11H
Ledger	Distributors Mgt Acctg - Gen Ledger	5727-D47	2805		163	2105						.GH30-0696	CASS	15B
Ledger	Financial-Posting & General Ledger Rel 3	5668-967	22220		1010							.GH20-2467	CICS+IMS+PL/I	15B
Ledger	General Ledger Distribution / Media	5714-D47	2675		93	2010		70				.GH30-0710	System/38	11D
Ledger	General Ledger	5714-M47	2675		95	2010		71				.GH30-0710	System/38	11D
+Ledger	General Ledger	5714-M77	3680		185	3238						.GH30-9036	System/38	15E
Ledger	General Ledger - Upgrade from MAPICS	5714-M77/01	1770			1558						.4619, 9613		15E
Ledger	General Ledger Mgmt Info Multi Ind	5715-XX2	1225									.GB30-2733	Sys/23 Datamaster	11X
Ledger	General Ledger - Disk	5715-XX2	1790									.G280-0232	Sys/23 Datamaster	11X
Ledger	General Ledger Distributors	5726-D6A	1260			59						.GH30-0219	System/34	11C
Ledger	General Ledger - Mfg	5726-M37	1260			59						.GH30-0220	System/34	11C
Ledger	General Ledger	5726-M47	2675		108	2010		79				.GH30-0221	System/34	11X
Ledger	General Ledger - Construction	5726-M64	1310		62							.GH30-0707	System/34	11C
Ledger	General Ledger - Construction	5726-M67	2360		98	1770		73				.GH30-0707	System/34	11D
Ledger	General Ledger	5726-XBB	1700									.G280-0232	System/34	11X
Ledger	General Ledger	5727-M57	2805		163	2105						.GH30-9001	CASS	15B
Ledger	General Ledger	5727-M67	2475		145	1855						.GH30-9003	CASS	15B
Ledger	General Ledger	5727-M77	3520		176	3095						.GH30-9004	CASS	15E
Ledger	General Ledger	5727-XB2	1980									.GB30-2733	System/36	15B
Ledger	General Ledger & Postings Release 3	5746-F52	19750		898							.GH12-5120	CICS+DL/I+PL/I	15E
+Ledger	General Ledger	5796-TCB	3000									.G320-9506	System/36	15I
-Ledger	General Ledger & Financial Acctg	5798-RFM	1815		165						12.	.GB30-1673	System/34	15X
Ledger	General Ledger	6201-868	995									.SB30-3525	System/36 PC	05G
Ledger	Rags to Riches Ledger	6187-272	99									.PC		05Y
Ledger	Rags to Riches Ledger	6187-287	20									.PC		05Y
+Ledger	SOLQMON III tm General Ledger	5669-088	995									SV21-8041	RT AIX	05Z
Ledger	Timberline General Ledger	6871-514	990									.GB20-2037	PC,XT,AT	05Y
Ledger	TCS Client Ledger System tm	6187-208	1695									.GB30-2037	PC,XT,AT	05Y
Ledger/Accounts	General Ledger/Accounts Payable Hospital	5726-H14	2090			108						.GH30-0407	System/34	11D
-Ledger	Order Entry/Invoice to Gen Ledger Intercf	5798-RTB	550									.GH30-2402	S/34+0rd Entry	15X
Ledger	Order Entry/Invoice to Gen Ledger Intercf	5798-RTC	525									.GH30-2402	S/36+0rd Entry	15X
Ledger	Order Entry/Invoice to Gen Ledger Intercf	5798-RTD	550									.GH30-2402	S/38+0rd Entry	15X
Legal	Display/Write Legal Support	6024-190	179									G520-3917	Display/Write 2	05Z
Legal	Display/Write/36 English Dictionaries	5727-MP2	120				105	105				G580-0454	Display/Write/36	15A
Legal	Legal Billing	5798-RNG	550									.GH30-2095	Display/Write	15X
Legal	Legal Diary System	5796-BIT	49500									.	CICS/OS/VS	25X
-Legal	Legal Extended Spelling Dictionary	5608-SRB	195									.	Textpack 6	05E
Legal terms	Language Dictionaries	5714-DCT	195			172						GC09-1021	5714-MP2	15A
Letter	RPS Letter Writer Version 2	5799-TEY	1200		114						12	.GH30-0713	Series/1	15E
Letter Writing	Insurance Agency System	6024-065	2500									G520-3917	PC	05E
+Letters	Bouncy Bee Learns Letters	6024-137	70									G520-1107	PC,XT,AT,PPC,PCjr	05Z
Letters	Missing Letters	6024-104	50									G520-1107	PC,PCjr,XT,AT,PPC	05Z
Letterseries	The Business Letterseries	6187-295	195									.	PC	05Y
Letterseries	The Business Letterseries	6187-300	39									.	PC(Business Library)	05Y
-Letterwriter	Letterwriter for Document Composition	5798-DMT	550									.GB21-3072	5748-XX9	15X
LetterWriter	LetterWriter	6187-296	395									.	PC	05Y

Keywords - Alphabetic Sequence

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Codes Explained in Appendix B

Keyword	Program Title	Number	OTC	ILC	MLC	DSO	DSI	DSM	MPL	MML	Mo	MoreInfo	Environment	TPLS
LetterWriter	The LetterWriter	6187-301	79										PC(Business Library)	05Y
Leuven	Dortmund Leuven Library System Rel 4	5787-DAA	22330		1015							24.G320-6662	05/VS.CIC5/VS	25X
Leuven	Dortmund Leuven Library System Rel 4	5787-DAB	17290		786							24.G320-6662	D05/VSE.CIC5/VS	25X
Leuven	Dortmund Leuven Library System Batch	5787-FAH	13900		632							24.G320-6662	5787-DAA	25X
Leuven	Dortmund Leuven Library System Online	5787-FAJ	13900		632							24.G320-6662	5787-DAA -FAH	25X
Leuven	Dortmund Leuven Library System Online	5787-FAK	13900		632							24.G320-6662	5787-DAA -FAH	25X
Leuven	Dortmund Leuven Library System Batch	5787-FAL	8820		401							24.G320-6662	5787-DAB	25X
+Level	COBOL to COBOL II & CICS Com Lev Con Aid	5785-ABJ	7000		350							.G320-9498	MVS.XA+VS COBOL II	15H
Level	CICS/VS Command Level Programming Course	5798-DCX	1415									.GB21-2628	IIS.IIP5	15X
Level	Entry Level Interactive Application SysX	3666-291		1165	224			876	167	14	22	.GH19-6269	SSX/VSE	15K
Level	Entry Level Interactive Application Syst	5746-XXV	5190		236	3915		162	13	21		.GH19-6218	D05/VSE.CIC5/VS.DL/I	15K
Level	Entry Level Interactive Application Syst	5748-XXK	8005		364	5960		271	28	46		.GH19-6157	VM/CMS.CIC5/VS.DL/I	15K
Level	High Level Image Processing System	5785-ABB	13530		615							.G320-9211	VM+PL/I+HBUS+7350	15H
-Level	High Level Language Applic Prog Interface	1753-180	139									.G520-1107	3270-PC CP+D052	05H
Level	Service Level Reporter Version 2	5668-966		2130	815		1600	611	99	159		.GH19-6213	05/VS.MVS/XA	11K
-Level	Textpack E - Entry Level	5608-TRE	55									G544-2188	Displaywriter 128K	05E
-Level	VTAM Level Selector	5798-DBZ	1890		78							.GB21-2580	05/VS-MVS	15X
+Level	3270 Emulation Program Entry Level	59X9-904	185									3278/9	Emul Adapter	05Z
Levenim	Monotype Levenim tm and Helvetica tm	5771-ACK	1500									G520-0004	CDPF	15E
IHS	3650/3680 Language and Host Services 1.2	5668-912		4280	444		3210	333	110	176		.GA27-3213	VSE.OS/VS+BTAM.VTAM	15K
LI/DE	Life Inquiry / Data Entry	5746-N11	25220		1215							.GH20-1499	CIC5/D05/05/VS/IMS	11C
+Lib	Engineering & Scientific Subroutine Lib	5668-863			700			525				GC23-0182	Reactor Facility	15E
Lib	FORTRAN IV Compiler & Obj Sup Lib Ver 2	5719-F02	950		22							GC34-0306	EDX/RPS	15C
Lib	RPS PL/I Compiler & Resident Lib Ver 2	5719-PL2	7425		202							GC34-0281	Series/1	15C
Lib	Scientific Subroutine Lib on 5.25" Disk	6331-471	325									GC22-9262	CS05 Ext+FORTRAN	05H
Libr	EDX COBOL Compiler & Resident Libr V 2	5719-CB5	4710		174							GC34-0388	Series/1	15X
Libr	FORTRAN IV Realtime Subrou Libr Ver 2	5719-F04	351		9							GC34-0140	RPS	15X
Libr	RPS COBOL Compiler & Resident Libr V 2	5719-CB7	4710		174							GC34-0390	Series/1	15C
-Libra	Construction Information - Accts Payable	5796-ZAR	1615									.GB30-1728	Sys/23 Datamaster	11H
-Librarian	Virtual Tape Librarian	5796-PN2	1705									.GB30-1728	Sys/23 Datamaster	11H
+Library8	VS FORTRAN Compiler Library8 Debug 2.2.1	5668-806			46							.G320-6421	VM/CMS	15H
Library/Host	EDX Macro Library/Host Version 4	5740-1M5	5010		381			563				SX26-3751	VM.MVS.XA+DFP	15E
Library/Host	EDX Macro Library/Host Version 5.2	5740-1M6	5500		393							GC34-0099	Series/1	15L
Library/MVS	Information/Library	5665-277		536	205		401	154	15	24		.GH12-5136	MVS.XA+MCCF	15K
Library/MVS	Library/MVS Release 2.1 (and Update C)	5665-294		399	133		297	99				GC28-1125	Information/Library	15C
licensees	FORTRAN Util Current licensees	5798-DFH/01	450									.GB21-2796	9587.8	815X
Life	Chemicals of Life I: Structure of Matter	6024-317	65									G520-1107	PC.PCjr.XT.AT.PPC	05Z
Life	Chemicals of Life II: Water, Carbo Lipid	6024-344	65									G520-1107	PC.PCjr.XT.AT.PPC	05Z
Life	Chemicals of Life II: Water, Carbo Lipid	6024-394	295									G520-1107	PC.PCjr.XT.AT.PPC	05Z
Life	Chemicals of Life I: Structure of Matter	6024-397	295									G520-1107	PC.PCjr.XT.AT.PPC	05Z
-Life	Group Life Management System	5796-PQF		2015	753							24.G320-6648	VM.D05/VSE	15X
Life	Human Life ProcessesI: Cellular Physiolo	6024-346	65									G520-1107	PC.PCjr.XT.AT.PPC	05Z
+Life	Human Life Processes	6024-411	65									G520-1107	PC.PCjr.XT.AT+color	05Z
+Life	Human Life Processes	6024-441	295									G520-1107	PC.PCjr.XT.AT+color	05Z
Life	Life Inquiry / Data Entry	5746-N11	25220		1215							.GH20-1499	CIC5/D05/05/VS/IMS	11C
-Life	RPS Life Agency System - Common Base	5710-RTK	880		40							.GB30-2424	Series/1	15X
+Life:	Chemicals of Life: Proteins & Nucleic Ac	6024-409	65									G520-1107	PC.PCjr.XT.AT+color	05Z
+Life:	Chemicals of Life: Proteins & Nucleic Ac	6024-439	295									G520-1107	PC.PCjr.XT.AT+color	05Z
+Life:	Human Life: Development & Differentiatn	6024-414	65									G520-1107	PC.XT.AT.PCjr+color	05Z

Keyword	Program Title	Number	OTC	ILC	MLC	DSO	DSI	DSH	HLP	MML	Mo	MoreInfo	Environment	TPLS
+Life:	Human Life: Development & Differentiatn	6024-444	295									0520-1107	PC,XT,AT,PCjr+color	05Z
+Light	Investigating Models of Light	6024-465	75									0520-1107	PC,XT,AT,PCjr+color	05Z
Lights	Lights Plants & Photosynthesis (BioISer)	6024-519	65									0520-1107	PC,PCjr,XT,AT,PPC	05Z
Lights	Lights Plants & Photosynthesis (BioISer)	6024-593	295									0520-1107	PC,PCjr,XT,AT,PPC	05Z
Limit	Resource Limiter	5798-DKN	2475									.GB21-3005	VM	15X
Line	Automated Response Line Call Handlg	5798-RRG	5500			250						.G320-9172	System/34	15X
Line	Line Disconnect	5799-BFK	90											NO5X
Line	Panel 2 Line Art Program	5796-PPA	2065		94						24.	G320-6420	VM/370,05/VS	15H
-Line	3800 Line Inserter	5796-AZK	1120									.G320-6393	05/VS	15H
Linear	Mathematical Linear Programming Extended	5740-XMS	16170		735							.GH19-1090	05/VS,MVS/XA,XT/370	11B
Linear	Mathematical Linear Programming Extended	5746-XM2	14100		641							.GH19-1090	D05/VS	11B
Linear	Metric IV - Linear Units (Feature 9329)	6871-519	49									.GB30-2037	PC,XT,PCjr	05Y
+Linear ProgramLP/PROTRAN		5669-103	2700										RT AIX	05Y
Linear programNAG tm FORTRAN PC50 Library		6187-277	345									.GB30-2037	PC,XT,AT,RT	05Y
Linear StructrCAEDS (R) Finite Element Solver		5796-BDM	26470	3655	941	19800	2400	620				G520-3935	5796-BBZ+3277GA,3251	15E
+Lines	Lines Plus	6276-636	20										PC,XT,PCjr,AT,3270PC	05R
-Link	APL Data Link to IMS for T50	5796-PKW	16060		627							.G320-6065	T50 with VSAPL	15X
-Link	APL Data Link to IMS for T50	5796-PKZ	16060		627							.G320-6065	T50 with VSAPL	15X
+Link	COPICS Executive Data Link	5785-DFW	10000		500							GB30-5056	XT,AT,3270-PC+Emultn	15H
Link	Direct Multinetwork Link to S.M.I.F.T.	5666-269		3500	820							.GH12-5142	CIC5/D05/VS+5668-926	15K
Link	Direct Multinetwork Link to S.M.I.F.T.	5668-964		6525	1595							.GH12-5142	IMS/VS+5668-926	15K
Link	Direct Multinetwork Link to S.M.I.F.T.	5668-965		4280	1280							.GH12-5142	CIC5/05/VS+5668-926	15K
Link	Direct S.M.I.F.T. Terminal 500 Link	5668-857	24200		1100							.GH12-5149	DMNL+ST500+3705/25	15B
Link	Direct S.M.I.F.T. Network Link	5668-926		2000	299							.GH12-5142	CIC5/VS,IMS/VS+BTAM	15K
Link	Direct S.M.I.F.T. Link	5740-F19	42130		1915							.GH12-5133	CIC5/05/VS	15X
Link	Direct S.M.I.F.T. Link	5740-F16	49940		2270							.GH12-5133	IMS/VS	15X
Link	Direct S.M.I.F.T. Link	5746-F14	34430		1565							.GH12-5133	CIC5/D05/VS,D05/VSE	15B
Link	Executive Data Link to PC (5250 Emulate)	5798-RRP	2750									.GH30-9029	CMAS/34	15X
Link	Executive Data Link to PC	5798-RRQ	2750									.GB30-2392	System/34+PC	15X
Link	Executive Data Link to PC	5798-RRR	2750									.GB30-2393	System/34+PC	15X
Link	Executive Data Link to PC (5250 Emulate)	5798-RRZ	2750									.GH30-9030	CMAS/36	15X
Link	Link Control FDx IATA 3704 SEP	5799-AHP	12100		550								ACP	15B
Link	Link DE/RPG Compiler PRPQ	5799-BFG	nc										System/34	NO5X
Link	Link Pack Area Optimizer	5798-DKP	1650									.GB21-3010	MVS	15H
Link	Link Support PRPQ	5799-BEQ	nc											NO5X
Link	MVS Link Pack Area Optimizer Extensions	5798-DRD	1705									.G320-9206	MVS	15H
Link	RPS X.25 / High-Level Data Link Control	5719-HD1	2500		158							GC09-1026	Series/1	15X
+Link	Synchronous Data Link Control Protocol	5732-010	3300									SC34-0677	System/88	15H
Link Editor	Operating System Extensions on 8" Disk	6089-579	155									GC22-9199	CS9000	05W
Link Editor	Operating System Extensions on 5.25"Disk	6092-497	155									GC22-9199	CS9000	05W
Liptocoe	Liptocoe	6276-569	20										PC,XT, jr,PPC,3270-PC	05R
+LISP	Golden Common LISP (R)	6205-279	495									.GB30-2037	PC,XT,AT	05Y
LISP	LISP	5798-DQZ	7150		325							.G320-0349	VM	25H
List	Membership and Mailing List System	5726-K11	2950		132							.GH30-0454	System/34	11C
+List	SDLOMON III tm Address and Mail list	5669-098	395									SV21-8041	General Ledger	05Z
Listen	Listen to Learn	6024-165	25									0520-1107	PC,PCjr,XT,AT,PPC	05Z
+Lite Editor	Lite Editor	6276-637	25										PC,XT,PCjr,AT,3270PC	05R
Litigation	Info Syst for Attny - Litigation Support	5793-AER	2850									.GB30-6001	Controller	05H
Litigation	Litigation Support	5793-ABK	6270									.GB30-2160	5793-ABZ	05X
Litigation	Litigation Support Version B	6187-318	450									.GB30-2037	XT,AT	05Y

Keywords - Alphabetic Sequence

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Codes Explained in Appendix B

Keyword	Program Title	Number	OTC	ILC	MLC	DSO	DSI	DSM	MLP	MML	Mo	MoreInfo	Environment	TPLS	
Load	COPICS Shop Order Load Analysis Reporting	5668-908	15430		469								.GH19-6356.CICS+COBOL+IMS,DL/1	15B	
Load	Downstream Load Utility	5668-006	3200	1015	124	2400	775	93	7	11		GC33-6125	VSE,OS/VS,SSX+VTAM	15K	
Load	DPPX Load Evaluation Simulator	5785-EDB	5280		240							.G320-9210	COBOL	15H	
Load	Info/MVS Direct Load Feature	5665-955/01			380								4582	05C	
Load	Info/MVS Direct Load Feature	5668-919/01			190								4788	05C	
-Load	Load Module Analysis Program	5798-DMF	1210										.GB21-3044	OS/VS	15X
-Load	Print Load Analyzer	5798-CXY	1085		99							12.GB21-2355	OS/VS	11H	
Loaded	Yale ASCII Communications - Host Loaded	5798-RRJ	4070										.GB30-2317	VM to EDX to 4994	15X
Loader	IMS/V5 Queue Loader	5785-GAJ	5720		260								.GB21-3125	IMS/VS-DB/DC	15H
+Loan	BANCStar tm 4700 Mortgage Loan	6430-785	1995										PC,XT,AT+4700	05E	
+Loan	BANCStar tm 4700 Consumer/Consumer Loan	6430-786	1995										PC,XT,AT+4700	05E	
Loan	Commercial Bank Installment Loan	5746-F67		979	374							.GH20-2497	DOS/VSE+CBAS Base	15X	
Loan	Commercial Bank Commercial Loan Accts	5746-F68		1615	618							.GH20-2497	DOS/VSE+CBAS Base	15X	
Loan	Installment Loan Accounting Banking	5726-F14	4100		213							.G360-0050	System/34	11X	
+Loan	4700 Resource Mar - Consumer Loan Applic	5668-778	1200										4700 CRM Ver 2	15M	
+Loan/Pell	Guaranteed Student Loan/Pell Tracking	5796-TCG	1500										.G320-9506	System/36	15I
+Local	Bus Mgt Series Local Area Network Access	6410-965	245										.G580-2002	PC Network	05G
Local	Local Area Network PrintManager	6317-042	800										G520-5102	PC Network, OMNINET	05H
-Local	Local Display Terminal Simulator	5798-DMQ	3500										.GB21-3066	DOS/VSE	15X
+Local	PC Local Area Network Program 1.1	6280-983	125										G227-6002	PC,XT,AT	05Z
+Local	System/36 Local Area Network Communicatn	5727-LC1	925		75	8143							S/36+AT in a T-R net	15A	
+Local	System/36 PC Local Area Network Communic	5727-LC6	695			521							5364+AT in a TRN	15M	
-Location	Medical Record Deficiency & Location Trk	5796-PXE	275										.G320-0352	Displaywriter	15X
-Location/Lot	Location/Lot Management	5727-M7P	4200		210	3696							.GH30-9006	System/36	15E
-Lodging	Hotel / Lodging Application	5796-PXC	550										.G320-0350	Reportrack	15X
Log	IMS Log Tape Management System	5796-AHT			200							12.G320-8141	OS/VS2, IMS/VSIMS	15H	
Logging	Access Control Logging and Reporting	5746-XE7	2360		63	2125		57	24	38			GH12-5130	DOS/VSE,SSX/VSE	15K
Logging	IMS Logging Feature	5665-332/02			400			300	60	96			5196,6008,6508	25K	
Logging	IMS/VS Logging Feature	5740-XX2/05			235			176	23	37			6423,6557	05K	
+Logic	Allen-Bradley PLC-2 Ladder Logic Documen	5793-ACX	2500										Industrial PC	05Y	
+Logic	Allen-Bradley PLC-3 Ladder Logic Documen	5793-AGC	2500										Industrial PC	05Y	
+Logic	Allen-Bradley 1774PLC Ladder Logic Docum	5793-AHC	1250										Industrial PC	05Y	
+Logic	Modicon Micro-84 Ladder Logic Documentat	5793-AHD	1250										Industrial PC	05Y	
+Logic	Modicon 484 Ladder Logic Documentation	5793-AHE	1250										Industrial PC	05Y	
+Logic	Modicon 584/884/984 Ladder Logic Documen	5793-AHF	2500										Industrial PC	05Y	
Logic	Rocky's Boots	6024-099	50										G520-1107	PC,XT,PCjr,AT+color	05Z
+Logic	Texas Instruments Ladder Logic Documenta	5793-AHG	2500										Industrial PC	05Y	
Logic	VM Programming in Logic	5785-ABH	8000										.G320-9228	VM	25H
-Logical	Network Logical Data Manager 1.3	5668-971		1305	207			979	155	24	38		GC23-0108	MVS,VM,VSE+NCCF	15K
-Logicnic	Logicnic (R)	5796-ZBA	214										.GB30-1976	5608-MS1	15X
-Logicquest	Logicquest III (R)	5796-ZDB	605										.GB30-1978	5608-MS1	15X
Logo	Logo Learner	6024-136	110										G520-1107	PC,PCjr,XT,AT,PPC	05Z
LOGO	LOGO (R) with Turtle Graphics	6024-076	175										G520-3917	PC,PCjr	05Z
-Logo	3800 Character/Graphic / Logo Design Aid	5798-DND	660										.GB21-3095	OS/VS+3800+5740-CB1	15X
Logo	6670 Usability Aid	5798-DQF	5500		250								.G320-0368	VM+6670	15H
LOGO Graphics	Turtle Power (Feature 4109)	6024-109	55										G520-3917	PC,PCjr,XT	05Z
Loops	3640 CICS/VS Extensions - 4331 Loops	5799-BEH			73			55	7	11			DOS/VSE,OS/VS1	15K	
+LOOPWORKS	LOOPWORKS tm	5793-AGR	2995										GB30-2027	Industrial PC	05Y
+LOOPWORKS	LOOPWORKS tm Manual	5793-AGR/01	105										GB30-2027	Industrial PC	05Y
-Lot	DPPX Plant Floor Collect & Lot Tracking	5798-DFG	3750		341								12.GB21-2881	DPPX+3640	15H

Keyword	Program Title	Number	OTC	ILC	MLC	DSO	DSI	DSH	MLP	HML	Mo	MoreInfo	Environment	TPLS
+LOTMAP	Land Ownership Tax Mapping	5796-PXX	10000									.G320-0359	Graphic Prog Genertr	2SH
+Lotus	Lotus tm / Answer	6205-239	550									GB20-2037	Answer/DB 5798-DMG	OSH
Lotus tm	1-2-3 tm	6871-325	495									.GB20-2037	PC,XT,AT,RT	05Y
+LP/PROTRAN	LP/PROTRAN	5669-103	2700										RT AIX	05Y
LPA	MVS Link Pack Area Optimizer Extensions	5798-DRD	1705									.G320-9206	MVS	1SH
+LU	APPC Multiple LU Support	5799-MYK	nc										System/36 5364	NOSE
+LU	APPC Multiple LU Support	5799-MYL	nc										System/36	NISA
Lumber	Accounts Receivable Lumber Dealers	5726-D4F	1650		86							.GH30-0166	System/34	1IX
Lumber	Billing Lumber Dealers	5726-D4E	2400		125							.GH30-0166	System/34	1IX
Lumber	Inventory Control Lumber Dealers	5726-D4G	2150		111							.GH30-0166	System/34	1IX
Lumber	Sales Analysis Lumber Dealers	5726-D4H	2150		111							.GH30-0166	System/34	1IX
M.U.L.E.	M.U.L.E. tm	6276-619	30										PC,XT,jr,PPC	0SR
Machine	Virtual Machine Monitor Analysis	5664-191	4000		270							.C342-164	VM	1SE
Machine	Virtual Machine System Extensions VM/SE	5748-XE1	nc		1435			1076	197	315		GC20-1827	VM/CMS	25X
Machine	Virtual Machine / 370	5749-D10	nc									GC20-1800	S/370,4300,303x,308x	NO5J
Machine	Virtual Machine Facility/370 for S/1	5798-RDR	8710		792							12.GB30-1590	Series/1	1SH
Machine	Virtual Machine Interactive Executive	5799-BXN	47000									GH20-6410	VM/STIPS (5799-BXN)	3SE
Machine	Virtual Machine / Personal Computer 1.1	6024-175	1150									G520-1095	XT/370,AT/370	05H
Machine	Virtual Machine Productivity System	7798-VMP	nc										Information Network	NOSC
Machine	3624 Teller Machine IMS/V5 Host Support	5796-BBG	nc		1725							12.G320-6427	MVS,ACE/VTAM	1SH
+Machine/Persona	Virtual Machine/Personal Computer Rel 2	6467-040	1150									SC24-5254	5664-319AT/370	05M
Machine/System	Virtual Machine/System Product Rel 4	5664-167			443							GC20-1838	S/370,4300,303x,308x	25K
Macro	Assembler & Macro Processor	5726-AS1	4000		165	3000						GC21-7840	System/34	1SX
Macro	Assembler and Macro Processor	5727-AS1	4800		273	4220						GC21-7893	System/36	1SX
Macro	Assembler and Macro Processor	5727-AS6	1920			1440						G580-0570	System/36 PC	05H
Macro	EDX Macro Assembler	5719-ASA	888		22								Series/1	1SC
Macro	EDX Macro Library Version 4	5719-LM8	3635		231								Series/1	1SX
Macro	EDX Macro Library Version 5.2	5719-LM9	4000		286							GC34-0099	Series/1	1SL
Macro	EDX Macro Library/Host Version 4	5740-LM5	5010		381								Series/1	1SX
Macro	EDX Macro Library/Host Version 5.2	5740-LM6	5500		393							GC34-0099	Series/1	1SL
XMacro	Macro Assembler Version 2	6024-193	189									G520-1107	PC,PCjr,XT,PPC,AT	05Z
+Macro	Macro Assembler	6280-077	189										3.5" drive	05G
Macro	3694 Application Macro Expansions	5748-F56	2600			93	1950						05/VS, DOS/VSE	15K
-Macros	Structured Programming Macros	5798-CLF	660		60							12.GB21-1957	D05/VS, OS/VS,VM	1SH
Made	OFFICE/38 Applications Made Easy	5714-XE1	4400										GB30-1952	System/38
Madness	Matrix Madness	6276-512	20										PC,XT,jr,AT,3270-PC	05R
-MADP	Managing Appl Development - Bar Charter	5798-DMX	396									.GB21-3082	OS/VS, DOS/VSE	15X
-MADP/PATS	Managing Appl Development - Plan & Track	5798-DHA	1055									.GB21-2887	OS/VS, VSE	15X
Mag	CPS 4969 Mag Tape Subsystem	5799-TDM	1176		59							24.GC34-0347	Series/1	1SC
Mag	CPS 4991-201 Mag Stripe Card Reader	5799-TAJ	336		14								Series/1	05C
+Magic	Magic Menu tm	6205-283	99									GB30-2037	PC,XT,AT,3270-PC,jr	05Y
+Magic	Magic Menu Network tm	6187-303	500									GB30-2037	PC,XT,AT,3270-PC	05Y
-Magnetic	Magnetic Card Conversion	5608-SR3	525		240							G544-0851	Displaywriter	05E
-Magnetic Media	Data Capture / Edit for Bar Code	5798-RHP	1815		165							12.GB30-1708	Series/1	1SX
+Mail	SOLOMON III tm Address and Mail List	5669-D98	395									SV21-8061	General Ledger	05Z
Mail merge	WordStar Professional tm	6871-407	695									.GB30-2037	PC,XT,AT,3270-PC,AT	05Y
Mail order	Order Management System	5796-ZKB	71500									.GB30-2466	System/38	15X
Mailing	Membership and Mailing List System	5726-K11	2950		132							.GH30-0454	System/34	1IC
Mailing	Personal Decision Series - Mailing Label	6410-942	75										Data Edition	05X
Mailings	Office System - Mailings	5793-ABP	1760									.GB30-2166	5793-ABZ	05X

Keywords - Alphabetic Sequence

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Codes Explained in Appendix B

Keyword	Program Title	Number	OTC	ILC	MLC	DSO	DSI	DSM	MLP	MML	Mo	MoreInfo	Environment	TPLS
MailMerge	MailMerge (R)	6085-982	250									.GB30-2037	PC	05Y
-Mainframe	Mainframe Comm Asst 1.05 Upgr from 1.0	6024-449	85										6024140	05Z
*Mainframe	Mainframe Communication Assistant	6024-451	199										PC,XT,AT,PCjr	05Z
*Mainframe	Mainframe Communication Assistant	6024-452	199										3.5" drive	05Z
Maint	DPPX Distrib Plant Maint Work Order	5787-GAA/01	14850										6001	2S
Maint	EPIC - SOCRATES Online Maint System	5796-A9H						220				12.G320-5814	D05/V5,C1CS/V5	15H
Maint	Fare Quote / Ticketing Tariff Maint Feat	5736-T11/01249900			11360							.GH20-0873	6030,6031,6049	01B
MAINT	FLEET MAINT tm	5793-ACW	3950									GB30-2037	5531,7531,7532	05Y
MAINT	MICRO MAINT tm	5793-AFF	4950									GB30-2037	5532,7531,7532	05Y
Maint	Vehicle Maint - Parts Inventory	5796-RGG	10640		968							12.GB30-1680	System/38	15X
-Maintenance	Central Site Maintenance	5798-RBD	505		101							06.GB30-1494	System/34	15H
-Maintenance	COBOL Maintenance Aid	5796-AHZ	550									.G320-8146	05/V5	11H
Maintenance	Data Base Organization and Maintenance	5736-XX4	3620		132							.GH20-0771	D05,D05/V5	25C
Maintenance	Directory Maintenance	5748-XE4			112			84	30	48		GC20-1836	VM/SP/CMS	15K
Maintenance	DPPX Distributed Plant Maintenance	5787-GAA	17600	1560	599							GB21-2895	8100	25X
Maintenance	DPPX Power Plant Maintenance	5798-DED	2055		187							12.GB21-2729	DMS/DPPX	15H
Maintenance	File Maintenance Program Writer - Online	5798-RPP	610									.GB30-2217	System/36	15X
Maintenance	Hardware Maintenance and Service	6025-072	155									G520-3917	PC	05Z
Maintenance	Hardware Maintenance and Service for XT	6936-809	155									G520-3917	PC	05Z
Maintenance	HSM Maintenance / Recovery Utilities	5796-BDY	2000									G520-9162	MVS+5740-XRB	15H
Maintenance	Maintenance & Construction Costing System	5796-PXT	11000									.G320-0338	System/34,36+COBOL	15H
Maintenance	Mass Storage Table Maintenance 3850	5796-PHY	7150		279							.G320-5742	05/V5,MVS/XA	11X
Maintenance	MEDIA-FLEX tm Maintenance Management	5793-AFD	5995									GB30-2037	5531,7531,7532	05Y
Maintenance	MEDIA-FLEX tm Preventive Maintenance	5793-AGB	3995									GB30-2037	5531,7531,7532	05Y
Maintenance	Object Library Maintenance	6276-543	20									PC,XT,AT,PCjr	AT,3270-PC	05B
Maintenance	PROFS Note Maintenance Facility	5798-DRT	1500									.G320-0796	PROFS	25H
*Maintenance	Source Maintenance System	6276-568	25										PC,XT,AT,PCjr	05R
Maintenance	Source Program Maintenance Online	5798-CFT	5355		226							.GB21-1696	C1CS/V5	15E
Make Words	Writing to Read	6360-700	725									G520-1107	PCjr+Speech attachmt	05Z
-Make-to-Schedule	Make-to-Schedule for Inventory Mgt	5798-RGR	5025									GB30-2324	System/34	15X
-Make-to-Schedule	Make-to-Schedule for Inventory Mgt	5798-RQT	3630									.GB30-2326	System/38	15X
-Make-to-Schedule	Make-to-Schedule for Inventory Mgt	5798-RRY	3300									.GB30-2386	System/36	15X
-Make-to-Schedule	Make-to-Schedule Facility for Inventory	5798-RME	3300									.GB30-2386	System/36	15H
Make-to-Schedule	Make-to-Schedule Upgrade from 5798-RRY	5798-RME/01	1050										4704	15H
Manac	Client & Lawyer Financial System	6187-248	975									GB30-2037	XT,AT	05Y
Manac	Client Files, Conflict & Dates System	6187-249	450									.GB30-2037	XT,AT	05Y
Manac	Law Firm Financial System	6187-250	450									.GB30-2037	PC,XT,AT	05Y
Manac Systems	Client Files, Conflict & Dates System	6187-249	450									.GB30-2037	XT,AT	05Y
*Management/VSE	Document Management/VSE	5666-339	2850			158	2565					GC33-6251	VSE	25K
Management	Patient Care System Patient Management 1.1	5796-BBF		5155	1050							.G320-6425	MVS,VSE+5796-BCE,BCF	15E
Managing	Andrew Tobias' Managing Your Money	6187-279	199									.GB30-2037	PC,XT,AT,PCjr	05Y
-Managing	Managing Appl Development - Plan & Track	5798-DHA	1055									.GB21-2887	05/V5,VSE	15X
-Managing	Managing Appl Development - Bar Charter	5798-DMX	396									.GB21-3082	05/V5,D05/VSE	15X
-Managing	Managing Time Effectively	6187-154	113										PC	05Y
*Manual	IBASOFT (Manual)	5793-AGN/01	75									GB30-2027	Industrial PC	05Y
*Manual	EASYLABEL tm (Manual)	5793-AGP/01	125									GB30-2027	Industrial PC	05Y
*Manual	LODPNORKS tm Manual	5793-AGR/01	105									GB30-2027	Industrial PC	05Y
-Manufacturers	Inventory Forecasting for Manufacturers	5798-RDC	4840		440							12.GB30-1532	System/34	15H
Manufacturers	Inventory Forecasting for Manufacturers	5798-RPR	6600		300							.GB30-2187	System/36	15X
-Manufacturing	Manufacturing Order Tracking Subsystem	5798-RCT	570		114							06.GB30-1536	System/34	15H

Keyword	Program Title	Number	OTC	ILC	MLC	DSO	DSI	DSM	MLP	MML	Mo	MoreInfo	Environment	TPLS
Manufacturing	Payroll Manufacturing	5714-M42	3410		123	2560			92			.GH30-0710	System/38	11D
-MANYFONT	MANYFONT Text Processing Type Faces	5796-PPE	1450		132							12.G320-6634	DCF	15H
Map	CPS 4978/4979 Display Map	5799-TBE	120		5							24.GC34-1585	Series/1	15C
-Map	DL/ Map	5796-PCW	902		82							12.G320-8159	DL/1 D05/VS	05H
Map	DPPX Interactive Map Definition Feature	5660-2644/01	5300		212	4500				20	32	GC33-0122	6000,6009,6010	15K
Map	DPPX Interactive Map Definition	5660-282	5300		212	4500		180	20	32		GC23-0600	DPPX/SP	15K
Map	DPPX Interactive Map Definition Feature	5760-XR1/01	3600		143	3060			121	17	27	GC33-0090	6000,6015,6014,6001	15K
+Map	EDX MAP tm Application Server	5719-XT1	4500		321							SL23-0150	XHCS	15M
Map	GDDM Interactive Map Definition	5748-XXH/02		767	214			575	161	22	35	GC33-0100	6084,2101,6503,2301	15K
-Map	Map Facility - Interactive	5796-RDH	4620									.G320-9131	MVS/TSO,GDDM	15X
Map	Map Facility - Interactive	5796-RBE	4620									.G320-9131	MVS/TSO,GDDM	15X
+MAPCS	RPS MAP tm Communications Server	5719-XT2	9500		679							SL23-0148	XHCS	15M
-Map	VSAM Control Area Freespace Map Utility	5796-AYX	1185									.G320-6346	05/VS	15H
Map	4700 Finance System - Applic Map Genertr	5668-934	21000		1495	18900					48	77	5668-969+5748-XXH	15K
MAPICS	Accounts Payable	5714-M43	2675		95	2010			71			.GH30-0710	System/38	11D
MAPICS	Accounts Payable - Upgrade from MAPICS	5714-M73/01	1310			1153						.4607,9605		15E
MAPICS	Accounts Payable	5727-M43	2805		163	2105						.GH30-9001	C.ASS	15B
MAPICS	Accounts Receivable	5714-M44	2675		95	2010			70			.GH30-0708	System/38	11D
MAPICS	Accounts Receivable Upgrade from MAPICS	5714-M74/01	1310			1153						.4610,9607		15E
MAPICS	Accounts Receivable	5726-M44	2675		108	2010			79			.GH30-0221	System/34	11X
MAPICS	Accounts Receivable	5727-M44	2805		163	2105						.GH30-9001	C.ASS	15B
MAPICS	Automotive Release/Shipping Control Syst	5796-ZKA	17600									.GB30-2480	System/36	15H
-MAPICS	Bar Code Print for MAPICS	5798-RHN	825		165							06.GB30-1706	System/34	15X
MAPICS	Capacity Requirements Planning	5714-M46	6560		234	4920			175			.GH30-0482	System/38	11D
MAPICS	Capacity Requirements Planning	5726-M46	5615		228	4215			171			.GH30-0221	System/34	11X
MAPICS	Capacity Requirements Planning	5727-M46	5885		339	4415						.GH30-9002	C.ASS	15B
MAPICS	Data Collection System Support	5714-M44	4610		157	3305			119			.GH30-0709	System/38	11D
MAPICS	Data Collection - Upgrade from MAPICS	5714-M7A/01	2030			1786						.4628,9619		15E
MAPICS	Data Collection System Support Mfg	5726-M44	4115		167	3110			125			.GH30-0221	System/34	11X
MAPICS	Data Collection System Support	5727-M4A	4345		251	3260						.GH30-9002	C.ASS	15B
MAPICS	Executive Data Link to PC	5798-RR0	2750									.GB30-2392	System/34+PC	15X
MAPICS	Executive Data Link to PC	5798-RRR	2750									.GB30-2393	System/36+PC	15X
MAPICS	Fastdraft Drawing Mgt to MAPICS Bridge	5796-RRN	2350									.GH30-9004	System/34+7361	15X
MAPICS	Financial Analysis	5727-M7H	6000		300	5280						.GH30-9004	C.ASS	15E
MAPICS	General Ledger	5714-M47	2675		95	2010			71			.GH30-0710	System/38	11D
MAPICS	General Ledger - Upgrade from MAPICS	5714-M77/01	1770			1558						.4619, 9613		15E
MAPICS	General Ledger	5727-M47	2805		163	2105						.GH30-9001	C.ASS	15B
-MAPICS	Inventory Forecasting for Manufacturers	5798-RDC	4840		440							12.GB30-1532	System/34	15H
MAPICS	Inventory Forecasting for Manufacturers	5798-RPR	6600		300							.GB30-2187	System/36	15X
MAPICS	Inventory Management	5714-M45	3465		124	2595			92			.GH30-0708	System/38	11D
MAPICS	Inventory Management	5726-M45	3685		143	2640			108			.GH30-0221	System/34	11X
MAPICS	Inventory Management	5727-M45	3685		214	2765						.GH30-9002	C.ASS	15B
-MAPICS	Make-to-Schedule for Inventory Mgt	5798-RQR	3025									.GB30-2324	System/34	15X
-MAPICS	Make-to-Schedule for Inventory Mgt	5798-RQT	3630									.GB30-2326	System/38	15X
-MAPICS	Make-to-Schedule for Inventory Mgt	5798-RRY	3300									.GB30-2386	System/36	15X
-MAPICS	Manufacturing Order Tracking Subsystem	5798-RCT	570		114							06.GB30-1536	System/34	15H
MAPICS	Material Requirements Planning	5714-M4B	6665		239	5000			178			.GH30-0709	System/38	11D
MAPICS	Material Requirements Planning	5726-M4B	6405		261	4800			195			.GH30-0221	System/34	11X
MAPICS	Material Requirements Planning	5727-M4B	6710		383	5030						.GH30-9002	C.ASS	15B
MAPICS	MAPICS File / Record Definitions	5798-RQB	330									.GB30-2146	Retrieval/36	15X

Keywords - Alphabetic Sequence

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Codes Explained in Appendix B



Keyword	Program Title	Number	OTC	ILC	MLC	DSO	DSI	DSM	MLP	MML	No	MoreInfo	Environment	TPLS
-MAPICS	MAPICS File / Record Definitions	5798-RQL	330										.GB30-2144 Retrieval/34	1SX
MAPICS	MAPICS II File / Record Definitions	5798-RND	400										.GB30-2146 Retrieval/36	1SH
+MAPICS	MAPICS II Financial Analysis Release 1	5714-M7H	6900			6070							.SB30-3279 System/38	1SE
+MAPICS	MAPICS II Forecasting Release 1	5714-M7L	12650			11152							.SB30-3402 System/38	1SE
+MAPICS	MAPICS II Master Prod Sched Plan Rel 1	5714-M7J	13230			11640							.SB30-3285 System/38	1SE
MAPICS	Order Ent & Inv - Upgrade from MAPICS	5714-M79/01	2630			2314							.4625, 9617	1SE
MAPICS	Order Entry and Invoicing	5714-M49	4040			142 3175			105				.GH30-0708 System/38	11D
MAPICS	Order Entry and Invoicing	5726-M49	3935			161 2955			119				.GH30-0221 System/34	11X
MAPICS	Order Entry and Invoicing	5727-M49	4125			258 3095							.GH30-9001.CASS	15B
-MAPICS	Order Entry/Invoice to Gen Ledger Interfc	5798-RTB	550										.GH30-2402 S/34+Ord Entry	15X
MAPICS	Order Entry/Invoice to Gen Ledger Interfc	5798-RTC	525										.GH30-2402 S/36+Ord Entry	15X
MAPICS	Order Entry/Invoice to Gen Ledger Interfc	5798-RTD	550										.GH30-2402 S/38+Ord Entry	15X
MAPICS	Payroll	5727-M42	3795			220 2845							.GH30-9001.CASS	15B
MAPICS	Payroll - Upgrade from MAPICS	5714-M72/01	1930			1698							.4604, 9603	1SE
MAPICS	Payroll Distributors Mfg MAPICS	5726-M42	3620			146 2715			109				.GH30-0221 System/34	11X
MAPICS	Payroll Manufacturing	5714-M42	3410			123 2560			92				.GH30-0710 System/38	11D
MAPICS	Product Data Management	5714-M46	5985			213 4485			159				.GH30-0709 System/38	11D
MAPICS	Product Data Management	5726-M46	6105			238165000			177				.GH30-0221 System/34	11X
MAPICS	Product Data Management	5727-M46	6105			353 4580							.GH30-9002.CASS	15B
MAPICS	Product Data Mgt - Upgrade from MAPICS	5714-M76/01	4590			4059							.4616, 9611	1SE
MAPICS	Production Control and Costing	5714-M41	6665			231 5000			178				.GH30-0709 System/38	11D
MAPICS	Production Control and Costing	5726-M41	6405			261 4800			195				.GH30-0221 System/34	11X
MAPICS	Production Control and Costing	5727-M41	6710			383 5030							.GH30-9002.CASS	15B
MAPICS	Production Ctl - Upgrade from MAPICS	5714-M71/01	3690			3247							.4601, 9601	1SE
MAPICS	Sales Analysis	5714-M48	3610			121 2560			90				.GH30-0708 System/38	11D
MAPICS	Sales Analysis - Upgrade from MAPICS	5714-M78/01	1760			1569							.4622, 9615	1SE
MAPICS	Sales Analysis	5726-M48	3515			143 2640			108				.GH30-0221 System/34	11X
MAPICS	Sales Analysis	5727-M48	3685			215 2765							.GH30-9000.CASS	15B
MAPICS	401K Tax-deferred Savings Plan	5798-RMF	300										.GH30-3316 S/38 MAPICS Payroll	15X
MAPICS	401K Tax-deferred Savings Plan	5798-RMG	300										.GH30-3316 S/34 MAPICS Payroll	15X
MAPICS	401K Tax-deferred Savings Plan	5798-RMH	300										.GH30-3316 S/36 MAPICS Payroll	15X
+MAPICS II	Accounts Payable	5714-M73	3220			160 2834							.GH30-9036 System/38	1SE
MAPICS II	Accounts Payable - Upgrade from MAPICS	5714-M73/01	1310			1153							.4607, 9605	1SE
MAPICS II	Accounts Payable	5727-M73	3080			154 2710							.GH30-9004.CASS	1SE
+MAPICS II	Accounts Receivable	5714-M74	3220			160 2834							.GH30-9037 System/38	1SE
MAPICS II	Accounts Receivable Upgrade from MAPICS	5714-M74/01	1310			1153							.4610, 9607	1SE
MAPICS II	Accounts Receivable	5727-M74	3080			154 2710							.GH30-9005.CASS	1SE
MAPICS II	Capacity Reqts Plannng - Upgr from MAPICS	5714-M7G/01	2790			2455							.4634, 9623	1SE
+MAPICS II	Capacity Requirements Planning	5714-M7G	7480			375 6582							.GH30-9037 System/38	1SE
MAPICS II	Capacity Requirements Planning	5727-M7G	7150			357 6290							.GH30-9006.CASS	15E
MAPICS II	Cross App - Upgrade from 5727-M4X	5727-M7X/01	946			832							.4623, 9623	1SE
MAPICS II	Cross Applic Sys Suppt- Upgr from MAPICS	5714-M7X/01	2420			120 1230							.GH30-9037 System/38	1SE
+MAPICS II	Cross Application System Support	5714-M7X	2420			120 2130							.GH30-9037 System/38	1SE
MAPICS II	Cross Application System Support	5727-M7X	2310			115 2035							.GH30-9004 System/36, S/36 PC	1SE
+MAPICS II	Data Collection System Support	5714-M7A	5180			260 4558							.GH30-9037 System/38	1SE
MAPICS II	Data Collection - Upgrade from MAPICS	5714-M7A/01	2030			1786							.4628, 9619	1SE
MAPICS II	Data Collection	5727-M7A	4950			247 4355							.GH30-9006.CASS	1SE
MAPICS II	Forecasting	5727-M7L	11000			550 9680							.GH30-9004.CASS	1SE
+MAPICS II	General Ledger	5714-M77	3680			185 3238							.GH30-9036 System/38	1SE
MAPICS II	General Ledger - Upgrade from MAPICS	5714-M77/01	1770			1558							.4619, 9613	1SE

Keyword	Program Title	Number	OTC	ILC	MLC	DSO	DSI	DSM	MLP	MML	Mo	MoreInfo	Environment	TPLS
MAPICS II	General Ledger	5727-M77	3520		176	3095						.GH30-9004.CASS		15E
MAPICS II	Inv Mgt for Process - Upgr from 5727-M75	5727-M7N/02	15500			13640						.4082,9734		15E
MAPICS II	Inv Mgt for Process - Upgr from 5727-M75	5727-M7N/03	11300			9944						.4083,9735		15E
MAPICS II	Inven Mgt for Proc - Upgr from 5727-M45	5727-M7N/01	17500			15400						.4081,9733		15E
+MAPICS II	Inventory Management	5714-M75	5750		290	5060						.GH30-9037.System/38		15E
MAPICS II	Inventory Management Upgrade from MAPICS	5714-M75/01	3280			2886						.4613,9609		15E
+MAPICS II	Inventory Management for Process	5727-M7N	20000		1000	17600						.GH30-0998.System/36		15E
MAPICS II	Inventory Management	5727-M75	5500			275						.GH30-9006.CASS		15E
+MAPICS II	Location/Lot Management	5727-M7P	4200			210						.GH30-9006.System/36		15E
-MAPICS II	Make-to-Schedule Facility for Inventory	5798-RWE	3300									.GB30-2386.System/36		15H
MAPICS II	Make-to-Schedule Upgrade from 5798-RRY	5798-RWE/01	1050									.4704		15H
+MAPICS II	Master Production Schedule Planning	5727-M7J	11500		575	10120						.GH30-9005.System/36		15E
MAPICS II	Material Reqs Planning - Upgr from MAPICS	5714-M7B/01	3290			2895						.4631,9621		15E
+MAPICS II	Material Requirements Planning	5714-M7B	8050		405	7084						.GH30-9037.System/38		15E
MAPICS II	Material Requirements Planning	5727-M7B	7700		385	6775						.GH30-9006.CASS		15E
MAPICS II	Order Ent & Inv - Upgrade from MAPICS	5714-M79/01	2630			2314						.4625,9617		15E
+MAPICS II	Order Entry and Invoicing	5714-M79	5520		280	4858						.GH30-9036.Systm/38		15E
MAPICS II	Order Entry and Invoicing	5727-M79	5280		264	4645						.GH30-9004.CASS		15E
+MAPICS II	Payroll	5714-M72	4370		220	3846						.GH30-9036.System/38		15E
MAPICS II	Payroll	5727-M72	4180		209	3545						.GH30-9004.CASS		15E
+MAPICS II	Product Data Management	5714-M76	8860		445	7797						.GH30-0937.System/38		15E
MAPICS II	Product Data Management	5727-M76	8470		423	7450						.GH30-9006.CASS		15E
MAPICS II	Product Data Mgt - Upgrade from MAPICS	5714-M76/01	4590			4039						.4616,9611		15E
+MAPICS II	Production Control and Costing	5714-M71	8450		425	7436						.GH30-9037.System/38		15E
MAPICS II	Production Control and Costing	5727-M71	8085		407	7115						.GH30-9006.CASS		15E
MAPICS II	Production Ctl - Upgrade from MAPICS	5714-M71/01	3690			3247						.4601,9601		15E
MAPICS II	Purchasing	5727-M7K	9600		480	8450						.GH30-9006.CASS		15E
+MAPICS II	Sales Analysis	5714-M78	4200		210	3696						.GH30-9035.System/38		15E
MAPICS II	Sales Analysis - Upgrade from MAPICS	5714-M78/01	1760			1349						.4622,9615		15E
MAPICS II	Sales Analysis	5727-M78	4015		203	3530						.GH30-9005.CASS		15E
Mapper	IBM/DBT PSB Mapper	5668-856/03	957									.4740		25E
Mapping	Digital Interactive Graphics / Mapping	5668-859	16610		755							.GH20-5508 5799-AYB.AXX,CMS,T50		15X
+Mapping	Land Ownership Tax Mapping	5796-PXK	10000									.G320-0359 Graphic Prog Genertr		25H
-Mapping	Map Facility - Interactive	5796-BDN	4620									.G320-9131 MVS/TSD,ODDM		15X
-Mapping	Map Facility - Interactive	5796-PBE	4620									.G320-9131 MVS/TSD,ODDM		15X
Mapping	Screen Definition Facility	5664-178		1685	294		1265	200	44	70		.GH19-6087 VM		15K
Mapping	Screen Definition Facility	5740-XYF	7675		349	5760		262	50	80		.GH19-6087 OS/VS,MVS/XA or CICS.		15K
Mapping	Screen Definition Facility	5746-XXT	5345		243	3980		165	44	70		.GH19-6087 VSE or CICS/DOS/VS		15K
Marc	Library Congress Marc to Dortmund Dmarc	5796-PPZ	577									.G320-9132 DOS,VSI,MVS		15X
Markup	General Markup Language Product Aid	5798-DKD	3045	337	131							.GB21-2978 5748-XX9		15X
Mass	Mass Storage System Extensions 3850	5740-XYG			327			245	54	86		.GH35-0034 OS/VS,MVS/XA		15K
Mass	Mass Storage Table Maintenance 3850	5796-PHY	7150		279							.G320-5742 OS/VS,MVS/XA		11X
-Mass	Mass Storage Trace SMF Correlation Aid	5796-PJX	3010		137						24.	.G320-5810 OS/VS,MVS/XA		11H
Mass Mailing	Insurance Agency System	6024-065	2500									.G520-3917 PC		05E
-Master	IMS.VS Master Terminal Operator Training	5798-DEG	990									.GB21-2736 IIS,IIPS		15E
Master	Master Production Schedule Planning	5668-898	31500		1380							.GH30-0737.CICCS+COBOL+IMS,DL/I		15H
+Master	Master Production Schedule Planning	5727-M7J	11500		575	10120						.GH30-9005.System/36		15E
+Master	MAPICS II Master Prod Sched Plan Rel 1	5714-M7J	13230			11640						.SB30-3285 System/38		15E
Master	Sign Master tm (Feature 9242) Ver 5.05	6187-185	245									.GB30-2037 PC,XT,3270-PC,AT		05Y
MasterType	MasterType tm (Feature 9294)	6871-484	39									.GB30-2037 PC,XT,PCjr		05Y

Keyword	Program Title	Number	OTC	ILC	MLC	DSO	DSI	DSM	HLP	HML	Mo	MoreInfo	Environment	TPLS
Match	Job Placement Match	5796-PXN	6490									.G320-0329	VSE	1SH
Material	COPICS Bill of Material Online II	5785-GBA	4725			142						.G821-2638	DOS/VSE 05/VS DL/I	1SE
Material	COPICS Bill of Material Batch Utilities II	5785-GBC	2490			75						.G821-2640	DOS/VSE 05/VS DL/I	1SE
Material	COPICS Material Requirements Planning II	5785-GBF	5215			158						.G821-2646	DOS/VSE 05/VS DL/I	1SE
Material	Material Reqs Plannng - Upgr from MAPICS	5714-M7B/01	3290										.4631_9621	1SE
Material	Material Requirements Planning	5714-M4B	6665			239	5000	178				.GH30-0709	System/38	11D
Material	Material Requirements Planning	5714-M7B	8050			405	7084					.GH30-9037	System/38	1SE
Material	Material Requirements Planning	5726-M4B	6405			261	4800	195				.GH30-0221	System/34	1IX
Material	Material Requirements Planning	5727-M4B	6710			383	5030					.GH30-9002	CASS	1SB
Material	Material Requirements Planning	5727-M7B	7700			385	6775					.GH30-9006	CASS	1SE
Material/ServiceTime & Material/Service Billing		5796-ZPK	3500									.G830-6016	5727-M6X+M6A	1SH
Materials/PurchDPX Materials/Purchasing and Reporting		5796-PXH	99000									.G320-0353	DPX+C0B0L	1SH
Math	Adventures in Math (Feature 4112)	6024-112	39									.G520-3917	PC,PCjr,XT	0SZ
Math	Elementary Math Library XT/370	5799-BTB/01	30										3035	0SC
Math	EDX Math & Functional Subroutine Library	5719-LM3	502			12						.GC34-0137	Series/1	1SC
Math	FORTRAN Elementary Math Library	5799-BTB	300									.GH20-5370	VM,MVS+FORTRAN	1SE
Math	Hopping Down the Math Trail	6276-633	20										PC,XT,PCjr,AT+color	0SR
Math	Math Blaster! tm	6871-443	49									.G830-2037	PC,XT,PCjr	0SY
Math	Math Computation Skills (Private Tutor)	6024-305	55									.G520-1107	PC,PCjr,XT,AT,PPC	0SZ
Math	Math Concepts Series: Grades 1-2	6024-325	175									.G520-1107	PC,XT,PCjr,AT 128k	0SZ
Math	Math Concepts Series: Pre-school	6024-356	150									.G520-1107	PC,XT,PCjr,AT 128k	0SZ
Math	Math Concepts Series: Grades 3-4	6024-357	175									.G520-1107	PC,XT,PCjr,AT 128k	0SZ
Math	Math Concepts Series: Grades 1-2	6024-368	789									.G520-1107	PC,XT,PCjr,AT 128k	0SZ
Math	Math Concepts Series: Grades 3-4	6024-369	789									.G520-1107	PC,XT,PCjr,AT 128k	0SZ
Math	Math Concepts Series: Pre-school	6024-370	675									.G520-1107	PC,XT,PCjr,AT 128k	0SZ
Math	Math Concepts Series: Grades 5-6	6024-417	879									.G520-1107	PC,XT,PCjr,AT 128k	0SZ
Math	Math Concepts Series: Grades 7-8	6024-419	879									.G520-1107	PC,XT,PCjr,AT 128k	0SZ
Math	Math Concepts Series: Grades 5-6	6024-427	195									.G520-1107	PC,XT,PCjr,AT 128k	0SZ
Math	Math Concepts Series: Grades 7-8	6024-429	195									.G520-1107	PC,XT,PCjr,AT 128k	0SZ
Math	Math Practice: Grades 1-2	6024-353	95									.G520-1107	PC,XT,AT,PCjr+color	0SZ
Math	Math Practice: Grades 3-4	6024-354	95									.G520-1107	PC,XT,AT,PCjr+color	0SZ
Math	Math Practice: Grades 3-4	6024-371	429									.G520-1107	PC,XT,AT,PCjr+color	0SZ
Math	Math Practice: Grades 1-2	6024-372	429									.G520-1107	PC,XT,AT,PCjr+color	0SZ
Math	Math Practice: Grades 5-6	6024-421	429									.G520-1107	PC,XT,AT,PCjr+color	0SZ
Math	Math Practice: Grades 7-8	6024-422	429									.G520-1107	PC,XT,AT,PCjr+color	0SZ
Math	Math Practice: Grades 5-6	6024-431	95									.G520-1107	PC,XT,AT,PCjr+color	0SZ
Math	Math Practice: Grades 7-8	6024-432	95									.G520-1107	PC,XT,AT,PCjr+color	0SZ
Math	Monster Math	6024-072	35									.G520-3917	PC,PCjr,XT	0SZ
MATH	MATH - BASIC	5734-XM8	1320			60						.GH20-1128	CMS,VSPC	1SC
Math	MATH/PROTRAN	5669-106	2100										RT AIX	0SY
Math	RS/1 tm	5669-187	5500										RT AIX	0SH
Math	Solving Math Word Problems (Priv Tutor)	6024-308	55									.G520-1107	PC,PCjr,XT,AT,PPC	0SZ
Math	SFUN/Library	5669-106	1495										RT AIX	0SY
Math	STAT/PROTRAN	5669-105	1495										RT AIX	0SY
MATH/PC-LIBRARY	MATH/PC-LIBRARY tm	6187-270	240									.G830-2037	PC,XT,AT,RT	0SY
MATH/PROTRAN	MATH/PROTRAN	5669-104	2100										RT AIX	0SY
Mathematical	Mathematical Linear Programming Extended	5740-XM3	16170			735						.GH19-1090	05/VS,MVS/XA,XT/370	11B
Mathematical	Mathematical Linear Programming Extended	5746-XM2	14100			641						.GH19-1090	DOS/VS	11B
Mathematical	RPS Mathematical & Functional Subroutine	5719-LM2	502			12						.GC34-0138	Series/1	1SC
Mathematical	SCRIPT Mathematical Formula Formatter	5798-DPH	6600			300						.G320-9189	4250+MVS or VM+DCF	1SH

Keyword	Program Title	Number	OTC	ILC	MLC	DSO	DSI	DSH	MLP	MML	Mo	MoreInfo	Environment	TPLS
Mathematics	Mathematics - Procedure Library	5734-XM3	2815		128							.GH20-0854	OS	15C
Mathematics	Mathematics - Subroutine Library	5736-XM7	3035		138							.GH12-5103	OS/VS,DOS/VS	15C
Mathematics	Mathematics, Elementary	5796-APC			260							24.G320-5804	IIS,IIPS (NOT IMS)	1EH
Mathematics	Characters for Mathematics and Science	5771-ACH	960									0520-0004	CDFP	15E
Matrix	Matrix Generator Report Writer for MPSX	5734-XMC	14100		641							.GH19-5012	OS/MFT/MVT	11B
Matrix	Matrix Madness	6276-512	20										PC,XT,jr,AT,3270-PC	05R
+Matrix	3728 Matrix Switch Host Facility	5665-428	6000									0520-6040	NetView/NCCF+MVS,XA	15M
MBA	Context MBA tm (Feature 9147)	6871-394	174										PC	05Y
McGill	McGill U System Interactive Computing V	5796-PQA			624							.G320-6629	VM/CMS	15X
Mdse	Purchase Ordering & Mdse Info. System	5796-PXP	47300									.G320-9195	MVS+PARIS/Base	15H
Mdse	Retail Inventory Planning & Mdse	5796-ZGT	66000									.GB30-2319	System/36	15X
Mdse.	Retail Inventory, Plan & Mdse. Syst	5796-ZFA		9995	3795							24.GB30-2207	System/38	15X
+Meaning	Reading for Meaning Series: Grade 2	6024-350	150									0520-1107	PC,XT,AT,PCjr+color	05Z
+Meaning	Reading for Meaning Series: Grades 3-4	6024-356	150									0520-1107	PC,XT,AT,PCjr+color	05Z
+Meaning	Reading for Meaning Series: Grades 5-6	6024-337	150									0520-1107	PC,XT,AT,PCjr+color	05Z
+Meaning	Reading for Meaning Series: Grades 7-8	6024-338	150									0520-1107	PC,XT,AT,PCjr+color	05Z
+Meaning	Reading for Meaning Series: Grades 7-8	6024-364	675									0520-1107	PC,XT,AT,PCjr+color	05Z
+Meaning	Reading for Meaning Series: Grades 3-4	6024-374	675									0520-1107	PC,XT,AT,PCjr+color	05Z
+Meaning	Reading for Meaning Series: Grades 5-6	6024-375	675									0520-1107	PC,XT,AT,PCjr+color	05Z
+Meaning	Reading for Meaning Series: Grade 2	6024-384	675									0520-1107	PC,XT,AT,PCjr+color	05Z
+Measurement	Measurement Process: Distance & Area	6024-470	75									0520-1107	PC,XT,AT,PCjr+color	05Z
Measurement	Metric III - Units of Measurement	6871-518	49									.GB20-2037	PC,XT,PCjr	05Y
Measurement	Performance Measurement Tool	5799-BJK	1000									GC21-7958	System/38	05E
Measurement	Resource Measurement Facility Ver 3.4.1	5665-274		2250	750		1686	562	67	107		GC28-1398	MVS/XA	25K
Measurement	Resource Measurement Facility Version 2	5740-XY4		406				304	17	27		GC28-0921	MVS	15K
+Measurement	Response Time Measurement Facility	5799-PAZ	200										System/36	15A
Measurement	Virtual Storage Measurement Reporter	5799-NML	nc										STOR/MVS,CICS,IMS	NO5E
Measurements	Metric V - Area Density Measurements	6871-520	49									.GB30-2037	PC,XT,PCjr	05Y
Mechanical	Mechanical Contractor Module	5710-RTY	3850									.GB30-2450	5710-RTR	15H
Medi-CAL	California Medical Assistance Program	5798-RGD/01	440									.GB30-1699	6035	15X
Medi-CAL	EDX Chain Pharmacy	5798-RGD	2420									.GB30-1699	Series/1	15X
Media	General Ledger Distribution / Media	5714-D47	2675		93	2010		70				.GH30-0710	System/38	11D
MEDIA-FLEX	MEDIA-FLEX tm Maintenance Management	5793-AFD	5995									GB30-2037	5531,7531,7532	05Y
MEDIA-FLEX	MEDIA-FLEX tm Preventive Maintenance	5793-AGB	5995									GB30-2037	5531,7531,7532	05Y
MEDIA-FLEX	MEDIA-FLEX Inventory Module Upgrade	5793-AGB/01	3000									GB30-2037	6556	05Y
Medical	AHA Medical Device Database	7798-MDD	nc										Information Network	N05C
Medical	California Medical Assistance Program	5798-RGD/01	440									.GB30-1699	6035	15X
MMedical	DisplayWrite Medical Support	6024-197	179									0520-1107	DisplayWrite 2 V1.1	05Z
Medical	DisplayWrite/36 English Dictionaries	5727-WP2	120			105		105				0580-0454	DisplayWrite/36	15A
Medical	Hosp Info - Medical Records Abstracting	5727-ABI/02	14300		650							6083,6099		15H
-Medical	HCS DL/I Medical Record Abstract System	5796-AYL			747							24.G320-6341	VSE+5798-CCA,CCB	15H
-Medical	Medical Fund Raising	5796-PXD	385									.G320-0351	Reportpack	15X
Medical	Medical Group Management System	5726-H15	3900		174							.GH50-0228	System/34	11C
Medical	Medical Group Management System II	5726-H16	9815		374	7365		280				.GH50-0228	System/34	11X
-Medical	Medical Record Deficiency & Location Trk	5796-PXE	275									.G320-0352	DisplayWriter	15X
+Medical	Patient Care - Medical Records&Concr	5796-TBH	90000									.G320-0824	5796-BCE,BCF and BBF	25Z
-Medical Group	Online Appointment System	5796-NZP			258							12.GB30-1440	System/34	15H
Medical terms	Language Dictionaries	5714-DCT	195			172						GC09-1021	5714-WP2	15A
-Meeting	Schedule/Calendar Management System	5798-NZB	3815		347							12.GB30-1401	System/34	15H
Member	Member Services	6276-566	30										PC,XT,jr,AT,3270-PC	05R

Keywords - Alphabetic Sequence

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Codes Explained in Appendix B

Keyword	Program Title	Number	QTC	ILC	MLC	DSO	DSI	DSM	MLP	MML	Mo	MoreInfo	Environment	TPLS
Membership	Membership and Mailing List System	5726-K11	2950		132							.GH30-0454	System/34	11C
Membership	Membership Data Base - Trade Assn	5796-ZHZ	7700									.B030-2352	System/36	15X
Membership	Membership Data Base	5796-ZJE	7700									.GB30-2401	System/36	15X
Membership	Membership Dues Assessment	5796-ZJF	3850									.GB30-2401	5796-ZJE	05X
Membership	Membership Fund Raising/Development	5796-ZJG	3300									.GB30-2401	5796-ZJF	15X
Membership	Membership Special Events	5796-ZJJ	3300									.GB30-2401	5796-ZJF	15X
Membership	Membership Subscription Fulfillment	5796-ZJH	3850									.GB30-2401	5796-ZJE	15X
Memories	DOS Memories	6276-607	35									PC, XT, jr, AT		05R
+Memory	Memory House	6276-551	20									PC, XT, AT, PCjr		05R
+Mendelian	Mendelian Genetics: Inheritance	6024-408	65									G520-1107	PC, PCjr, XT, AT+color	05Z
+Mendelian	Mendelian Genetics: Inheritance	6024-438	295									G520-1107	PC, PCjr, XT, AT+color	05Z
Mental	Community Mental Health MIS	5796-PXX	7700									G320-0330	System/36	15H
+Menu	Magic Menu tm	6205-283	99									GB50-2037	PC, XT, AT, 3270-PC, jr	05Y
+Menu	Magic Menu Network tm	6187-303	500									GB50-2037	PC, XT, AT, 3270-PC	05Y
Menu	OCI Online Procedure & Menu Convrsn	5785-DFD	709									G320-9191	System/34+CICS/SSX	15X
Merchandise	PARIS- Purchase Order & Merchandise	5796-PTE		3095	891							G320-9145	5666-294	15X
+Merchandising	Auto Dealer - Service Merchandising	5796-ZPA	8600									.GB30-6013	System/36	15H
+Merge	IPDS Graphics-Text Merge	5799-COP	150										System/36 5364	05E
+Merge	IPDS Graphics/Text Merge	5799-CGJ	200										System/36	15A
-Merge	3800 Page Mode - Text and Image Merge	5798-DPK	5500		250							G320-9185	MVS	15X
Mesh	CADAM (R) 3D Mesh Geometry Module	5796-AMR	27510	2910	457	15730	3870	261				G320-6063	05/VS, VM/CMS	05H
Message	Communication Oriented Message System	5668-007	11505		524							GH12-5127	05/VS, MVS/XA+CICS/VS	15E
Message	Communication Oriented Message System	5746-XOM	11520		524							GH12-5127	DOS/VS	25B
Message	Executive Phone Directory + Message Feat	6276-533	60										PC, XT, jr, AT, 3270-PC	05R
Message	EDX Telephone Message Management System	5799-TFY	19971									GH36-0250	Series/1	15H
Message	Interactive Network and Message System	6410-976	329									G320-0346	PC/IX	05H
-Message	IMS/VS Message Format Services Training	5798-KY	3190		242							GB21-1933	IIS, IIPS	1EH
Message	Message Requirer	5796-ATP	4950		154							G320-6071	IMS/VS V1	11E
Message	Message Switching System	5798-RHF	2145									.GB30-1756	System/38	15H
Message switchg	Cluster Program	6024-107	99									G520-3917	PC, PCjr, PPC, XT	05Z
Message switchg	Cluster Program - Five Pack	6024-182	439									G520-3917	PC, PCjr, PPC, XT	05Z
-Message switchg	Specialized Terminal Interface Processor	5798-RBQ	2900		132						24.		Series/1	15H
Messaging	Voice / Text Messaging System	5796-PZB	10560		480							G320-9231	VM	15H
Metafile	Graphical File System	6024-205	189									G520-1107	Graphics/Prof CRT	05Z
Metric	Metric I - Fundamentals of Decimals	6871-487	49									.GB30-2037	PC, XT, PCjr	05Y
Metric	Metric III - Units of Measurement	6871-518	49									.GB30-2037	PC, XT, PCjr	05Y
Metric	Metric IV - Linear Units (Feature 9329)	6871-519	49									.GB30-2037	PC, XT, PCjr	05Y
Metric	Metric V - Area Density Measurements	6871-520	49									.GB30-2037	PC, XT, PCjr	05Y
MFAS	Motor Freight Revenue Accounting	5726-T21	8030		420							.GH30-0413	System/34	11X
Mfg	Accounts Payable - Mfg	5726-M33	1260		59							.GH30-0220	System/34	11C
Mfg	Accounts Receivable - Mfg	5726-M34	1310		62							.GH30-0220	System/34	11C
Mfg	Data Collection System Support Mfg	5726-M3A	4135		167	3110	125					.GH30-0221	System/34	11X
Mfg	General Ledger - Mfg	5726-M37	1260		59							.GH30-0220	System/34	11C
Mfg	Inventory Management - Mfg	5726-M35	1575		77							.GH30-0220	System/34	11C
Mfg	Order Entry and Invoicing - Mfg	5726-M39	1940		94							.GH30-0220	System/34	11C
Mfg	Payroll - Mfg	5726-M32	1575		77							.GH30-0220	System/34	11C
Mfg	Payroll Distributors Mfg MAPICS	5726-M42	3620		146	2715	109					.GH30-0221	System/34	11X
Mfg	Product Definition & Costing - Mfg	5726-M36	1470		72							.GH30-0220	System/34	11C
Mfg	Production Status and Costing Mfg	5726-M31	1575		77							.GH30-0220	System/34	11C
Mfg	Sales Analysis - Mfg	5726-M38	1575		77							.GH30-0220	System/34	11C

Keyword	Program Title	Number	OTC	ILC	MLC	DSO	DSI	DSM	MLP	HML	Mo	MoreInfo	Environment	TPLS
MGMS	Medical Group Management System	5726-H15	3900		174							.GH30-0228	System/34	I1C
MGMS II	Medical Group Management System II	5726-H16	9815		374	7365		280				.GH30-0228	System/34	I1X
+Mgr	Data Facility Hierarchical Storage Mgr	5665-329			800			600	141	226		SC33-0223	MVS, XA	15K
Mgr	Multi-System Configuration Mgr for 3814	5665-342			750			675	70	112		GC25-0172	MVS	15K
Mgr	Personal Communications Mgr Feature 4100	6024-100	109									G520-3917	PC, PCjr, XT	OSZ
Mgr	WESTLAM (R) Communications Session Mgr	6428-162	350									.G520-3917	PC	OSX
+Mgr/	4700 Resource Mgr - Consumer Loan Applic	5668-778	1200										4700 CRM Ver 2	15M
Mgr/Voice	Graphical Data Display Mgr/ graPHIGS 1.2	5668-792			500								GAM or GDDM	15E
Mgr/Voice	Personal Telephone Mgr/Voice Comm Option	1642-004			70								PC, XT, AT+VoiceCommun	OSG
MGRN	Matrix Generator Report Writer for MPSX	5734-XMC	14100		641							.GH19-5012	OS, MFT/MVT	I1B
Mgt-Batch	4730 Availability Mgt-Batch Reporting	5668-873	14000		995	12600				44	70	GC31-0523	VSE, OS, VS+CDBOL	15K
MICR	All Items File Translation Facility 3694	5798-RFL	1210		110							12.GB30-1645	System/34+5748-F53	15X
MICR	Document Control Section Edit 3694	5798-RFL			100							12.GB30-1645	System/34+5748-F53	15X
MICR	MICR Document Fine Sort	5798-BCN	2210		201							12.GB21-1327	DOS/V5	I1H
-MICR	MICR Program Generator	5798-RBE	759		69							12.GB30-1476	System/34	15H
+MICR	MICR User Editing - CHX/3694, CHX/V5	5798-DRE	7500									G520-9250	OS/V5, VSE	25H
-MICR	Online Reject/Reentry Check Processing	5798-NZY	550		50							12.GB30-1445	System/34	15H
-MICR	Proof-of-Deposit / Transit	5798-NMH	2075		189							12.GB30-1141	System/34	15H
MICR	1419 Proof-of-Deposit MICR Capture	5798-DDC	3630		330							12.GB21-2668	DOS/VSE	15H
MICRO	EDX to Gould Modicon MICRO tm Controllrs	5719-THB	5000									GC34-0099	5719-CF1	15H
MICRO	MICRO MAINT tm	5795-AFF	4950									GB30-2037	5532, 7531, 7532	OSY
MICRO 184 tm	EDX to Gould Modicon MICRO tm Controllrs	5719-THB	5000									GC34-0099	5719-CF1	15H
MICRO 384 tm	EDX to Gould Modicon MICRO tm Controllrs	5719-THB	5000									GC34-0099	5719-CF1	15H
MICRO 84 tm	EDX to Gould Modicon MICRO tm Controllrs	5719-THB	5000									GC34-0099	5719-CF1	15H
Micro-PROLOG	micro-PROLOG	6205-277	395									.GB30-2037	PC, XT, AT	OSY
+Micro-84	Modicon Micro-84 Ladder Logic Documentat	5795-AHD	1250										Industrial PC	OSY
MicroLink	Microlink II tm (Feature 9154)	6871-401	30										CP/M-86	OSY
Midway	Midway Campaign tm	6085-994	21									.GB30-2037	PC	OSY
-Migration	Data set Migration and Planning Aid	5798-DCK	1745		159							12.GB21-2614	OS, VS, MVS/XA	15H
Migration	Data Base Migration Aid Utility	5798-DT4	6000									SH20-9032	DB2	15H
Migration	Data Base Migration Aid Utility	5798-DT0	6000									SH20-9032	DB2	15H
Migration	Direct Access Storage Device Migration	5668-002	1450							19	30	GC26-3972	OS, VS+3375/3380	O1X
Migration	DL/I to IMS Data Dictionary Migration	5798-DLN	2200									.G520-9196	VSE and IMS	15H
Migration	Storage Device Migration Aid	5796-PHP	6195		279							.G520-5714	OS, OS/V5, MVS/XA	I1X
Migration	System/34 to System/36 Migration Aid	5727-MAL	250									GC21-9058	System/34+System/36	O1X
Migration	UCC THD VSE to MVS Migration Aid	5796-PHM	49500									.G520-9190	VSE+MVS, XA	15H
Migration	VM/XA Migration Aid Remote 3270 Option	5664-183			2400	800		1800	600	42	67	GC23-0126	VM/XA+VM Pass-thru	15K
Migration	VSPC Migration Aids to TSO/E	5798-DPE	2145									.G520-9166	5665-283	15X
Milestone	Milestone tm (Feature 9155)	6871-402	30										PC	OSY
Mine	Mine Shaft (Feature 4092)	6024-092	35									G520-3917	PCjr+DOS 2.1	OSZ
MINI-PLC-2 tm	EDX to Allen-Bradley (R) Controllers	5719-THC	5000									GC34-0099	5719-CF1	15H
MINI-PLC-2/15tm	EDX to Allen-Bradley (R) Controllers	5719-THC	5000									GC34-0099	5719-CF1	15H
MINIPERT	MINIPERT	5734-XP3	3980		181							.GH20-4432	APLSV, APL/CMS	15C
MinuteMan	MinuteMan tm	5795-AFC	4990									GB30-2037	5532, 7532, 7532	OSY
MIP	Mixed Integer Programming Feature - MPSX	5740-XM3/01	14100		641							.GH19-1090	6038, 6217, 6039	I1B
MIP	Mixed Integer Programming for MPSX	5746-XM2/01	12120		551							.GH19-1090	6038, 6143	I1B
MIP	MPSX Including MIP XT/370 Feature	5740-XM3/02	1250		62								3015, 3016	OSC
MIS	Community Mental Health MIS	5796-PXX	7700									.G520-0330	System/36	15H
Missing	Missing Letters	6024-104	50									G520-1107	PC, PCjr, XT, AT, PPC	OSZ
Mitosis	Cell Functions: Growth & Mitosis	6024-316	65									G520-1107	PC, PCjr, XT, AT, PPC	OSZ

Keywords - Alphabetic Sequence

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Codes Explained in Appendix B

Keyword	Program Title	Number	OTC	ILC	MLC	DSO	DSI	DSM	MLP	MML	Mo	MoreInfo	Environment	TPLS
Mitosis	Cell Functions: Growth & Mitosis (BioSer	6024-391	295									G520-1107	PC,PCjr,XT,AT,PPC	0SZ
Mixed	Mixed Integer Programming Feature - MPSX	5740-XM3/01	14100		641							.GH19-1090	6038,6217,6039	11B
Mixed	Mixed Integer Programming for MPSX	5746-XM2/01	12120		551							.GH19-1090	6038,6143	11B
MMA5	Accounts Payable - Mfg	5726-M33	1260		59							.GH30-0220	System/34	11C
MMA5	Accounts Receivable - Mfg	5726-M34	1310		62							.GH30-0220	System/34	11C
MMA5	General Ledger - Mfg	5726-M37	1260		59							.GH30-0220	System/34	11C
MMA5	Inventory Management - Mfg	5726-M35	1575		77							.GH50-0220	System/34	11C
MMA5	Order Entry and Invoicing - Mfg	5726-M39	1940		94							.GH50-0220	System/34	11C
MMA5	Payroll - Mfg	5726-M32	1575		77							.GH50-0220	System/34	11C
MMA5	Product Definition & Costing - Mfg	5726-M36	1470		72							.GH50-0220	System/34	11C
MMA5	Production Status and Costing Mfg	5726-M31	1575		77							.GH50-0220	System/34	11C
MMA5	Sales Analysis - Mfg	5726-M38	1575		77							.GH50-0220	System/34	11C
Mod	CAMM DSE Analytical Mod, Std Graphics	5793-AEY/01	500									GB30-2037	6505	05Y
Mod	CAMM DSE Analytical Mod, Enhanced Graphs	5793-AEY/02	950									GB30-2037	6506	05Y
Mod	OS FORTRAN IV Library (Mod II)	5734-LM3			131			98	17	27		GC28-6884	05,05/V5,VM	15K
Mod	Procedure Documentation & Mod Aid	5798-RPN	973									.GB30-2211	System/36	15X
-Mod	6670 Mod II Font Editing System	5785-FAW	880									.GB21-3068	05/V5,VM	15X
+MODBUS	THE FIX Device Driver for MODBUS tm	5793-AGQ/09	1095									GB30-2027	5793-AGM	05Y
MODBUS tm	EDX to Gould Modicon MICRO tm Controllrs	5719-THB	5000									GC34-0099	5719-CF1	15H
-Mode	5800 Page Mode - Text and Image Merge	5798-DPK	5500		250							G520-9185	MVS	15X
Model	Information System Model & Architecture	5785-FBA	14300		650							.G520-9235	MVS,VM	15H
Model	MVS CBIPO Model Inst Related Inst Materl	5751-CS2	varies									GC25-0127	5751-CS1	V 5
-Model	Strategic Profit Model	5798-NZR	315									.GB30-1424	System/34	15H
Model	Strategic Profit Model II	5798-RPT	495									.GB30-2130	System/36	15X
-Model-Based	DMS Model-Based Application Generator	5798-DNA	2750									.GB21-5089	CICS/V5	15X
-Modeler	CAEDS (R) Modeler	5796-BFR	77100	7710	2570	53970	54001800					GE20-0771	VM,MVS+5080+GAM	15E
+Modeler	CAEDS (R) Object Modeler 1.0	5669-207	6060									RT	05H	
+Modeler	CAEDS (R) Object Modeler	5713-AAB	varies		445							Base	VIUE	
+Modeler	CAEDS (R) System Modeler 1.0	5669-208	8230									RT	05H	
+Modeler	CAEDS (R) System Modeler	5713-AAC	varies		605							Base	VIUE	
+Modeler	CAEDS Graphics Finite Element Modeler 1.	5669-209	8940									RT	05H	
+Modeler	CAEDS Graphics Finite Element Modeler	5713-AAD	varies		600							Base	VIUE	
Modeling	Continuous System Modeling Program III	5734-XS9	2705		123							.GH19-7000	V51/V52/VM	11C
-Modeling	Continuous System Modeling - APL	5785-KAE	2285		104							24.G0320-6081	5748-AP1	15H
-Modeling	Financial Planning and Modeling	5796-ZFD	2970									.GB30-2249	System/38	15X
-Modeling	Financial Planning and Modeling	5796-ZGN	2530									.GB30-2251	System/36	15X
-Modelling	APL Econometric Planning Language	5796-PDM	2705		246							12.G0320-5535	APLSV	11H
+Models	Investigating Models of Light	6024-465	75									G520-1107	PC,XT,AT,PCjr+color	0SZ
Models	RS/1 tm	6317-003	2159									.3209-240	PC+10MB,3270-PC,AT	05G
+Models:	Scientific Models: Batteries&Bulbs&Famili	6024-472	75										128k+color	05G
Modern	Modern Genetics: Chromosomes & Coding	6024-345	65									G520-1107	PC,PCjr,XT,AT,PPC	0SZ
Modern	Modern Genetics: Chromosomes & Coding	6024-395	295									G520-1107	PC,PCjr,XT,AT,PPC	0SZ
Modicon	CAMM Modicon tm Controllor Offline	5793-AEY/08	500										6525	05Y
Modicon	CAMM Modicon Contoller Online	5793-AEY/14	1750									GB30-2037	6527	05Y
Modicon	EDX to Gould Modicon MICRO tm Controllrs	5719-THB	5000									GC34-0099	5719-CF1	15H
+Modicon	Modicon Draftec	5793-AHF/02	950										Industrial PC	05Y
+Modicon	Modicon Micro-84 Ladder Logic Documentat	5793-AHD	1250										Industrial PC	05Y
+Modicon	Modicon Wiring Diagram Generator	5793-AHF/01	500										Industrial PC	05Y
+Modicon	Modicon 484 Draftec	5793-AHE/01	950										Industrial PC	05Y
+Modicon	Modicon 484 Ladder Logic Documentation	5793-AHE	1250										Industrial PC	05Y

Keyword	Program Title	Number	OTC	ILC	MLC	DSO	DSI	DSM	MLP	MHL	Mo	MoreInfo	Environment	TPLS
+Modicon	Modicon 484 Wiring Diagram Generator	5793-AHE/02	500										Industrial PC	05Y
+Modicon	Modicon 584/884/984 Ladder Logic Documen	5793-AHF	2500										Industrial PC	05Y
Modicon	Taylor Industrial - Modicon 484/584/884	5793-AGD	2500									GB30-2037	5531,7531,7532	05Y
Modification	System Modification Program Extended	5668-949		1920	380		1440	285	97	155		GC28-1106	05/VS,MVS/XA	15K
Modify	GIS/VS Modify Feature	5740-XX7/03				207		155	14	22		GH20-9035	6018	25K
Moisture	Moisture in the Atmosphere	6024-124	55									G520-1107	PC,XT,PCjr,PPC+DOS2+	05Z
Money	Andrew Tobias' Managing Your Money	6187-279	199									.GB30-2037	PC,XT,AT,PCjr	05Y
+Monitor/Systems	VM/XA Realtime Monitor/Systems Facility	5798-DHD	7500									5H26-7000	VM/XA	15E
Monitoring	COPICS Plant Monitoring - Host Interface	5798-DFR	5705									.GB21-2842	05/VS VSE 5798-DFT	15E
Monitoring	COPICS Plant Monitoring & Control - 8100	5798-DFT	21500									.GB21-2842	DPPX 5798-DFR	15E
Monitoring	JESS Monitoring Facility II	5796-PLW	5080									.G320-6159	MVS,MVS/XA	15E
Monitoring	3630 Plant Monitoring Enhancements	5798-DAH/01	751									.G320-2506	9566	15H
Monotype	Hadassah tm and Monotype Century tm	5771-ACH	1500									G520-0004	CDPF	15E
Monotype	Monotype Bodoni Cyrillic tm	5771-ACR	3000									G520-0004	CDPF	15E
Monotype	Monotype Garamond(R) language Extensions	5771-ACH	3000									G520-0004	CDPF	15E
Monotype	Monotype Levenim tm and Helvetica tm	5771-ACK	1500									G520-0004	CDPF	15E
Monotype	Monotype Old Eng Text & New Berolina tm	5771-ACY	3000									G520-0004	CDPF	15E
Monotype	Monotype Peninim,Alachsoni,Times N Roman	5771-ACJ	3000									G520-0004	CDPF	15E
Monotype	Monotype Rockwell(R) Language Extensions	5771-ACG	3000									G520-0004	CDPF	15E
Monotype	Monotype Times New Roman Cyrillic tm	5771-ACQ	3000									G520-0004	CDPF	15E
Monotype	Monotype Times New Roman Language Extens	5771-ACX	3000									G520-0004	CDPF	15E
Monotype	4250 Monotype Baskerville tm	5771-AAB	640									G520-0004	CDPF (5668-997)	11E
Monotype	4250 Monotype Bodoni tm	5771-AAC	640									G520-0004	CDPF (5668-997)	11E
Monotype	4250 Monotype Century tm	5771-AAE	640									G520-0004	CDPF (5668-997)	11E
Monotype	4250 Monotype Century Schoolbook tm	5771-AAF	640									G520-0004	CDPF (5668-997)	11E
Monotype	4250 Monotype Garamond tm	5771-AAJ	640									G520-0004	CDPF (5668-997)	11E
Monotype	4250 Monotype Rockwell tm	5771-AAP	640									G520-0004	CDPF (5668-997)	11E
Monotype	4250 Monotype Times New Roman tm	5771-AAR	640									G520-0004	CDPF (5668-997)	11E
Monster	Monster Math	6024-072	35									G520-3917	PC,PCjr,XT	05Z
+More!	Countries, Capitols and More!	6276-559	25									PC,XT,AT,PCjr,3270PC	05R	
Morse	Morse Code Drills	6276-525	15									PC,XT,jr,AT,PPC	05R	
Morse	PC Morse Code	6276-612	20									PC,XT,jr,AT	05R	
+Mortgage	BANKStar tm 4700 Mortgage Loan	6430-785	1995									PC,XT,AT+4700	05E	
Mortgage	DPPX Mortgage Banking System	5798-DDN	6225			566						12.GB21-2691	DPPX/BASE	15H
Motor	Motor Freight Revenue Accounting	5726-T21	8030			420						.GH30-0413	System/36	11X
MOUSE	Microsoft (R) MOUSE (BUS)	6871-347	175									.GB30-2037	PC,XT,3270-PCuse	05Y
Mouser	Mouser (Feature 4087)	6024-087	35									G520-3917	PCjr+DOS 2.1	05Z
+MPAL	Multipurpose Authoring Language	6276-585	100									PC,XT,AT,PCjr,3270PC	05R	
MPF	RPS Multiprocessing with Command Langaug	5719-PC6/01	5000			325						GC34-0471	9682,9683	15X
+MPSX	Master Production Schedule Planning	5727-M7J	11500			575	10120					.GH30-9005	System/36	15E
MPSX	Mathematical Linear Programming Extended	5740-XM3	16170			735						.GH19-1090	05/VS,MVS/XA,XT/370	11B
MPSX	Mathematical Linear Programming Extended	5746-XM2	14100			641						.GH19-1090	DOS/VS	11B
MPSX	Matrix Generator Report Writer for MPSX	5734-XMC	14100			641						.GH19-5012	05/MFT/MVT	11B
MPSX	Mixed Integer Programming for MPSX	5746-XM2/01	12120			551						.GH19-1090	6038,6143	11B
MPSX	MPSX Including MIP XT/370 Feature	5740-XM3/02	1250			62						3015,3016	05C	
MQR	Message Requeuer	5796-ATP	4950			154						.G320-6071	IMS/VS V1	11E
MRA	Hosp Info - Medical Records Abstracting	5727-AB1/02	14300			650						6083,6099	15H	
-MRJE	EDX Multileaving RJE	5796-RHJ	1485									.GB30-1762	Series/1	15X
MRP	Material Requirements Planning	5727-M7B	7700			385	6775					.GH30-9006	.CAS5	05Y
MSC/case	MSC/case	6187-331	895									.GB30-2037	PC,XT,AT,3270-PC	15E

Keywords - Alphabetic Sequence

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Codes Explained in Appendix B



Keyword	Program Title	Number	OTC	ILC	MLC	DSO	DSI	DSH	MLP	MHL	Mo	MoreInfo	Environment	TPLS		
MSC/NASTRAN	CAEDS (R) Graphics System	5796-BBZ	49700	3275	1655	34790	23001100					GE20-0771	MVS,VM+3250/5080	15E		
MSC/NASTRAN tm	CAEDS (R) System Analysis	5796-BEP	45790	4815	1605	33740	31501050					GE20-0771	MVS,VM+5080/3250+GAM	15E		
MSC/pal	MSC/pal 2	6187-330	1995									GB30-2037	PC,XT,AT	05Y		
MSNF	ACF/VTAM Multisystem Networking Feature	5746-RC3/01						374		337	174	278	GC27-0462	6059,6500	25K	
MSNF/TCAM	ACF/TCAM - Multisystems Networking	5735-RC1/01	14640					1305	10980	979	31	50	12	GC30-9500	6000,6517	25C
MSNF/TCAM	ACF/TCAM - Multisystems Networking	5735-RC3/01		4070	1465		30531099	113	181				GC30-3057	6003,2111,6503,2311	25X	
MSNF/VTAM	ACF/VTAM - Multisystems Networking	5735-RC2/01		3080	1100			2310	825	163	260		GC38-0284	6009,2108,6509,2508	25K	
MSRJE	SSP Multiple Session RJE	5727-SS1/05	3600					217	3165				GC21-9021	4510,4511,4604	15A	
MSSE	Mass Storage System Extensions 3850	5740-XYG						327			245	54	86	GH35-0034	05/VS,MVS/XA	15K
MSSTMP	Mass Storage Table Maintenance 3850	5796-PHY	7150					279					GS20-5742	05/VS,MVS/XA	15J	
MSVIZAP	MSVIZAP for the 3850	5799-MPK	nc										MVS/VS1		N0SC	
Mtg Consumer/CoBANC	Mtg Consumer/Consumer Loan	6430-787	2995										PC,XT,AT+4700		05E	
NTM	EDX Multiple Terminal Manager Version 2	5719-MS2	727					28					GC34-1700	Series/1	15X	
NTM	RPS Multiple Terminal Manager Version 3	5719-MT1	750					36					GC34-0456	Series/1	15X	
Multi-User	Multi-User System for Interactive Comput	5664-197						850					GS20-0805	VM+FORTRAN	25E	
+Multiple	APPC Multiple LU Support	5799-MYK	nc										System/36	5364	N0SE	
-Mult	Mult Index Support - Disk Files	5798-NQL			69							06	GB30-1168	System/34	15H	
+Mult	4680 Operating System Mult Contrlr Feat	5669-035/01	625			437							SC30-3367	4606,9001,5898	15M	
Multi	Accounts Payable Mgmt Info Multi Ind	5715-XX3	1225										GB30-2744	Sys/23	Datamaster	11X
Multi	Accounts Receivable Mgmt Info Multi Ind	5715-XX4	1225										GB30-2722	Sys/23	Datamaster	11X
Multi	Billing Mgmt Info Multi Ind	5715-XX7	1225										GB30-2700	Sys/23	Datamaster	11X
Multi	General Ledger Mgmt Info Multi Ind	5715-XX2	1225										GB30-2733	Sys/23	Datamaster	11X
Multi	Inventory Accounting Mgmt Info Multi Ind	5715-XX6	1225										GB30-2711	Sys/23	Datamaster	11X
Multi	Payroll Mgmt Info Multi Ind	5715-XX5	1225										GB30-2755	Sys/23	Datamaster	11X
Multi-System	Multi-System Configuration Mgr for 3814	5665-342				750			675	70	112		GC23-0172	MVS	15K	
+Multi-user	R:BASE 5000 Multi-user	6187-161	1500										GB30-2037	PC,XT,AT	05Y	
MultiCPU couple	MVS/VS Data Base System 1.3	5740-XX2				2593			1944	240	384		GH20-1260	MVS,VS1	05K	
MultiCPU couple	MVS/VS Data Communications Feature	5740-XX2/02				2250			1687	192	307		GH20-1260	6172,6566	05K	
-Multileaving	EDX Multileaving RJE	5796-RHJ	1485										GB30-1762	Series/1	15X	
MultiMate	MultiMate tm	6871-508	495										GB50-2037	PC,XI,AT,3270-PC	05Y	
Multimedia	Multimedia Presentation Aid	6276-611	25										PC,XT,3p,AT,3270-PC		05R	
Multinetwork	Direct Multinetwork Link to S.W.I.F.T.	5666-269		3500	820								GH12-5142	CICS/DOS/VS+5668-926	15K	
Multinetwork	Direct Multinetwork Link to S.W.I.F.T.	5668-964		6525	1595								GH12-5142	IMS/VS+5668-926	15K	
Multinetwork	Direct Multinetwork Link to S.W.I.F.T.	5668-965		4280	1280								GH12-5142	CICS/05/VS+5668-926	15K	
-Multipass	Textpack 6 Multipass Equinon Print	5799-MMK	nc										Displaywriter		N0SE	
Multiplan	Multiplan (R)	6024-022	250										GS20-3917	PC	05Z	
+Multiple	APPC Multiple LU Support	5799-MYL	nc										System/36		N15A	
-Multiple	ATMS II Multiple Fonts for the 3800	5798-CRH	2110	192								12	GB21-2184	05/VS+CICS/VS	15H	
Multiple	EDX Multiple Terminal Manager Version 2	5719-MS2	727			28							GC34-1700	Series/1	15X	
+Multiple	Multiple Applications from a Single Screen	5785-EDH	8000	365									GS20-9511	VTAM+MVS	15H	
Multiple	Operating System / Multiple Virtual Stor	5752-VS2	nc										GC28-1012	S/370,4300,303x,308x	N05J	
Multiple	RPS Multiple Terminal Manager Version 3	5719-MT1	750			36							GC34-0456	Series/1	15X	
Multiple	SSP Multiple Session RJE	5727-SS1/05	3600			217	3165						GC21-9021	4510,4511,4604	15A	
Multiple	SSP Multiple Session Remote Job Entry	5727-SS6/03	1440				1080						6580-0570	4774	05R	
Multiplication	Multiplication Tables	6276-601	25											PrivTutor or 6276602	05H	
MULTIPOINT	BSC MULTIPOINT (3770/3780)	5799-BFJ	nc												N05X	
MultiprocessingRPS	Multiprocessing with Command Language	5719-PC6/01	5000			325							GC34-0471	9682,9683	15X	
+Multipurpose	Multipurpose Authoring Language	6276-585	100											PC,XT,AT,PCjr,3270PC	05R	
Multisystem	ACF/VTAM Multisystem Networking Feature	5746-RC3/01				374				337	174	278	GC27-0462	6059,6500	25K	
Multisystem	Multi-System Configuration Mgr for 3814	5665-342				750				675	70	112	GC23-0172	MVS	15K	

Keyword	Program Title	Number	OTC	ILC	MLC	DSO	DSI	DSM	MLP	MML	Mo	MoreInfo	Environment	PLS
Multisystems	ACF/TCAM - Multisystems Networking	5735-RC1/01	14640					979	31	50	12	GC30-9500	6000,6517	25C
Multisystems	ACF/TCAM - Multisystems Networking	5735-RC3/01		4070	1465			30551099	131	181		GC30-3057	6005,2111,6503,2311	25X
Multisystems	ACF/VTAM - Multisystems Networking	5735-RC2/01		3080	1100			2310	825	163	260	GC38-0284	6009,2108,6509,2308	25K
-Multitask	Topview Upgrade from 1.0	6024-455										6024131		05G
+Multitask	Topview 1.1	6024-453										PC,XT,AT,PPC		05G
Multituser	dBASE II - Multiuser	6187-188										0830-2037	PC	05Y
-Multivariate	Multivariate Time Series Analysis - APL	5796-PLX		4840	440							12.G320-6169	V5APL	11H
*Multiwire tm	Circuit Board Design - Circuit Pack 4.1	5796-PRP	48600	8355	2785			58551945				G320-9175	VM+5080/3250/3277GA	T1SE
Music	Gertrude's Secrets	6024-097	49									G520-3917	PC,XT,PCjr+Color	05Z
MUSIC	McGill U System Interactive Computing V	5796-PQA			624							G320-6629	VM/CMS	15X
Music and sound	Music 101	6276-600	20									PC,XT,jr,AT,3270-PC		05R
Music and sound	Rocky's Boots	6024-099	50									G520-1107	PC,XT,PCjr,AT+color	05Z
MUSIC/SP	Mult-User System for Interactive Comput	5664-197			850							.G320-0805	VM+FORTRAN	25E
MVS file access	TSO Host Server for PC XT/370 (VM/PC)	5798-DTL	2420									G520-3917	MVS+VTAM	15H
MVS maclib	TSO Host Server for PC XT/370 (VM/PC)	5798-DTL	2420									G520-3917	MVS+VTAM	15H
MVS 3.8	Operating System / Multiple Virtual Stor	5752-VS2	nc									GC28-1012	S/370,4300,303x,308x	N05J
MVS/BDT	MVS/Bulk Data Transfer	5665-302		5340	1335			40041001	454	726		GC28-1313	MVS+VTAM	25K
MVS/Bulk	MVS/Bulk Data Transfer	5665-302		5340	1335			40041001	454	726		GC28-1313	MVS+VTAM	25K
+MVS/DITTO	Data Interfile Transfer, Testing & Oprns	5665-370			270			230				.SH19-6112	MVS,XA	15M
*MVS/Extended	MVS/Extended Architecture Offering 1985	7798-XA0	nc										non-MVS	H25K
MVS/SE	MVS Systems Extensions	5740-XE1			1960			1470	114	182		GC28-0872	MVS	25K
MVS/SP/JES2	MVS/SP/JES2 1.3.5 and 1.3.6	5740-XTS-02			2170			1627	240	384		GC28-1025	4525,6143,9525	25K
MVS/SP/JES3	MVS/SP/JES3 1.3.5	5740-XTM/02			2380			1784	517	827		GC28-1025	4524,9524	05K
MVS/XA	Device Support Facility for MVS/XA 1.8	5635-257	nc									GC26-3946	3340,3344,3350,3380	H05A
*MVS/XA	MVS/Extended Architecture Offering 1985	7798-XA0	nc										non-MVS	H25K
MVS/XA	MVS/SP - JES3 Version 2.1.7	5665-291		14430	4810			1082156071	33552136			GC28-1118	DPP 5665-XA2	25K
MVS/XA	MVS/SP JES2 Version 2.1.7	5740-XC6		12840	4280			93605210	6731077			GC28-1118	With 5665-XA2	25K
MVS/XA	TSO/E - MVS/XA Feature	5665-285/01		1500	555			1125	416	108	173	GC28-1061	4528,6503	25K
MVT	MVT Support for 3350 / 3330-11	5799-ARG	3600									GH20-9115	OS/MVT	11C
-MVT	MVT Support for 3031/3032/3033	5799-AHX	12880									GC28-0951	OS/MVT	15C
+MXXX	Multiple Applicatns from a Single Screen	5785-EDH	8000	365								G320-9511	VTAM+MVS	15H
NAG	NAG tm FORTRAN PC50 Library	6187-277	345									.GB30-2037	PC,XT,AT,RT	05Y
NAPLPS	EDX Videotex System SVS/1	5799-TFN	13750									G520-3992	Series/1	15X
NAPLPS	Videotex/PC (Feature 9230)	6316-967	239									.G520-3917	PCjr	05H
NAPLPS	Videotex/PC Ext Sup Updt B1.0 to B1.1	6265-471	30									G520-3917	PC,XT,AT+ACA+modem	05H
NAPLPS	Videotex/PC Updt B1.0 to B1.1	6265-472	55									G520-3917	Non-subscriber	05H
NAPLPS	Videotex/PC Version B1.1 (Feature 9229)	6410-985	275									.G520-3917	PC,XT,AT+ACA+modem	05H
*National langua	Application System Release 4	5767-001	60000	30000	2000							GE45-5000.	MVS,VM+GDDM	.T1SE
Natural Log	FORTRAN Elementary Math Library	5799-BTB	300									GH20-5370	VM,MVS+FORTRAN	15E
NCCF	MVS Productivity System	7798-MVS	nc										Information Network	N05C
NCCF	MVS/SP - JES2 1.1	5740-XTS	2150					1612	117	187		GC28-1395	5752-VS2	25K
NCCF	Network Communications Control Facil V2	5664-175		1920	320			1740	290	33	44	GC23-0108	VM+ACF/VTAM3	15K
NCCF	Network Communications Control Facil 2.2	5665-316		2730	455			2460	410	66	106	GC23-0108	XA+VTAM/TCAM	15K
+NCCF	Network Communications Control Facil 2.2	5666-285		1110	185			996	166	22	35	GC23-0108	VSE+VTAM/TCAM	15K
NCCF	Network Communications Control Facil V2	5668-967		2250	375			2010	335	55	88	GC27-0657	MVS+VTAM,TCAM	15K
NCCF	Network Communications Control Facil V1	5735-XX6		440	156			330	117	48	77	GC27-0429	ACF/VTAMBE/TCAM/SSX	25K
NCCF	NCCF Terminal Access Facility Feature	5735-XX6/01		220	88			165	66	16	26	GC27-0429	6002,2115,6502,2315	25K
NCP	ACF / Network Control Program V4 Subset	5668-754			275			206	48	77		GC30-3350	VSE,VM,MVS,XA+VTAM	25K
NCP	ACF/NCP Version 4.2	5668-854		2085	695			1875	625	148	237	GC23-0108	VS,VM+VTAM/TCAM	25K
NCP	X.25 NCP Packet Switching Interface 4.3	5668-981		770	269			557	202	40	64	GC30-3189	3720/25+NCP 4.2	25K

Keywords - Alphabetic Sequence

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Codes Explained in Appendix B

Keyword	Program Title	Number	OTC	ILC	MLC	DSO	DSI	DSM	HLP	MHL	Mo	MoreInfo	Environment	TPLS
-NCP/SSP	Network Control Program - SCP	5747-CH1	nc									GC30-9531	3704,3705	N0SJ
NCP/SSP	Network Control Program EP/VS Feature	5747-CH1/01	nc									GC30-9531	6004	N0SJ
-NCR	COBOL Conversion Aid from NCR (R)Century	5798-APG	2315									.0B21-0839	D0S/0S	01H
-NCR	COBOL Conversion Aid from NCR 8200	5798-NYR	990									.0B30-1433	System/34	05H
NCR 8200	COBOL Conversion Aid	5798-RGT	1430									.GB30-1764	System/38	05X
+NETBIOS	Token-Ring Network NETBIOS	6467-037	35									PC, PPC, XT, AT+adapter		05H
NETDA	Network Design and Analysis	5664-202	15000	750								VM+APL2 orVSAPL+GDDM		2SE
NETPARS	Network Performance Analysis & Reports	5798-CZX	1890	77								.0B21-2487	0S/VS, V598CPR	1SE
+NetView	NetView	5664-204		940				705	90	144		GC30-3350	MVS+VTAM	25K
+NetView	NetView	5665-361		1060				795	124	198		GC30-3350	MVS+VTAM	25K
+NetView	NetView	5665-362		1255				941	128	205		GC30-3350	XA+VTAM	25K
Netware	Advanced Netware tm / PCN	6404-009	1595									GB30-2037	PC, XT, AT	05Y
Netware	Advanced Netware tm / C	6404-010	1595									GB30-2037	PC, XT, AT	05Y
+NetWare	Advanced NetWare tm/86 2.0a	6476-230	1595									GB30-2037	PC, XT, AT, 3270-PC, jr	05Y
Netware	Netware tm / Bridge	6404-011	395									GB30-2037	PCNetwork+PCCluster	05Y
+NetWare	NetWare tm Bridge 2.0a	6476-229	395									GB30-2037	PC, XT, AT, 3270-PC	05Y
Network	Account Network Management Program	5798-DAT	5880	267								.0B21-2521	CICS/DOS/VS	11X
+Network	ACF / Network Control Program V4 Subset	5668-754		275				206	48	77		GC30-3350	VSE, VM, MVS, XA+VTAM	25K
-Network	ACF Network Generation Aid	5798-DFP	1045									.0B21-2809	MVS, DOS/VSE	15X
+Network	Bus Mgt Series Local Area Network Access	6410-965	245									G580-2002	PC Network	05G
+Network	Business Adviser - Network Extension	6466-992	245										LAN or TokenRing	I05G
Network	Cross Domain Network Data Transfer	5798-DAE	1320									.0B21-2498	Replaced by 5668-932	15H
Network	Direct S.M.I.F.T. Network Link	5668-926		2000	299							.0H12-5142	CICS/VS, IMS/VS+BTAM	15K
Network	DOS 3.1 (PC Network)	6024-211	85									G520-1107	A11 PC	01B
Network	Enhanced Network Processor Feature	5734-XP4/03	3650	166								.GH20-0855	6088, 6089, 6204	05Z
+Network	EDX Network Definition Utility 1.0	5719-XT5	1950										Series/1	15M
Network	EDX Systems Network Architecture	5719-SX1	2005	75								SC34-0402	Series/1	15X
Network	EDX Systems Network Architecture RJE	5719-SX2	1000	34								SC34-0402	Series/1	15X
+Network	EDX Systems Network Architecture Ver 2.0	5719-XX9	2500	180								SC34-0773	Series/1	15M
Network	Interactive Network and Message System	6410-976	329									G320-0346	PC/IX	05H
Network	Local Area Network PrintManager	6317-042	800									G520-5102	PC Network, OMNINET	05H
+Network	Magic Menu Network tm	6187-303	500									GB30-2037	PC, XT, AT, 3270-PC	05Y
Network	Network Communications Control Facil V2	5664-175		1920	320			1740	290	33	44	GC23-0108	VM+ACF/VTAM3	15K
Network	Network Communications Control Facil 2.2	5665-316		2730	455			2460	410	66	106	GC23-0108	XA+VTAM/TCAM	15K
+Network	Network Communications Control Facil 2.2	5666-285		1110	185			996	166	22	35	GC23-0108	VSE+VTAM/TCAM	15K
Network	Network Communications Control Facil V2	5668-947		2250	375			2010	335	55	88	GC27-0657	MVS+VTAM, TCAM	15K
Network	Network Communications Control Facil V1	5735-XX6		440	156			330	117	48	77	GC27-0429	ACF/VTAM8E/TCAM/SSX	25K
Network	Network Configuration Tool	5798-RLT	962									.0B30-1991	System/38	15X
-Network	Network Control Program - SCP	5747-CH1	nc									GC30-9531	3704, 3705	N0SJ
Network	Network Control Program EP/VS Feature	5747-CH1/01	nc									GC30-9531	6004	N0SJ
Network	Network Design and Analysis	5664-202	15000	750									VM+APL2 orVSAPL+GDDM	2SE
Network	Network Extension Facility	5799-AZP	18580	718								.0H20-5289	ACF/NCP/VS	15X
+Network	Network Extension Facility Version 2	5799-CDX	70000										3725+MVS/VTAM	25M
Network	Network Interface Module	5798-DGT	539	49								.0B21-2875	0S/VS, ACF/VTAM	15H
-Network	Network Interface Module	5798-DHR	660									.0B21-2922	DOS/VSE, VTAM	15X
Network	Network Job Entry for JES2	5740-XR8		807				605	96	154		GC23-0010	MVS	15K
Network	Network Logical Data Manager 1.3	5668-971		1305	207			979	155	24	38	GC23-0108	MVS, VM, VSE+NCCF	15K
Network	Network Management Productivity Facility	5798-DPC	800									.G320-9165	MVS+NCCF	15H
Network	Network Monitor for VTAM Applications	5796-PPB	1980	150								.G320-6628	0S/VS ACF/VTAM	15H
Network	Network Performance Monitor Release 2	5665-333		3210	615			2410	460	57	91	.GH20-6359	MVS+VTAM	25K

Keyword	Program Title	Number	OTC	ILC	MLC	DSO	DSI	DSH	HLP	MHL	Mo	MoreInfo	Environment	TPLS	
Network	Network Performance Analysis & Reports	5798-CZX	1890		77							.GB21-2487	OS/V5,5798CPR	15E	
Network	Network Preparation Processor Feature	5740-XP1/03	1980		90							.GH19-1055	6009,6225	11B	
Network	Network Preparation Processor Feature	5746-XP1/03	1980		90							.GH19-1055	6014,6158	11B	
Network	Network Problem Determination Applicatn	5664-190		1350	225		1010	169	20	32		GC23-0108	VM	25K	
Network	Network Problem Determination Applic 3.2	5665-321		2040	340		1530	255	30	48		GC23-0108	NCCF Version 2+XA	25K	
+Network	Network Problem Determination Applic V3	5666-295		825	132		618	99	16	26		GC23-0108	NCCF Version 2+VSE	25K	
Network	Network Problem Determination Applic V3	5668-920		1650	264		1237	198	22	35		GC23-0108	NCCF Version 2+MVS	25K	
Network	Network Problem Determination Appl Ver 2	5668-983		1210	113		907	85	27	43		GC34-2061	5735-XX6	15K	
Network	Network Routing Facility Release 3	5668-963		3525	1175		2644	881	248	397		GC27-0594	ACF/NCP 4.2	25K	
+Network	Network REVELATION tm 4-User Upgrade	6187-232	500									.GB30-2037	PC,XT,AT,3270-PC	05Y	
Network	Network Services	7798-NET	nc										Information Network	N05C	
Network	Network Terminal Option Release 4	5735-XX7		660	206		495	155	12	19		GC38-0297	ACF/NCP 4.2	25K	
+Network	Primary Systems Network Architecture	5732-028	4500									GX34-1000	5732-027	15M	
+Network	PC Local Area Network Program 1.1	6280-083	125									G227-6002	PC,XT,AT	05Z	
-Network	PC LAN Upgrade from PC Network 6024195	6280-084	65									G227-6002	PC Network	05Z	
+Network	PC Network Analysis Program	6489-762	1295										PCNetwork+EZ-VU Runt	05Z	
+Network	PC Network Remote Control (Six-pack)	6276-562	99										NETBIOS+PC,XT,AT	05R	
Network	Routing Table Generator	5668-815	6000		300							.GH20-6787	PLI+MVS,XA or VM	21E	
Network	RPS Packet Network Support	5799-TCF	2490		64								Series/1	15E	
+Network	Secondary Systems Network Architecture	5732-029	5500									GX34-1000	5732-027	15M	
+Network	System/36 Local Area Network Communicatn	5727-1C1	925			75	8143						5/36+AT in a T-R net	15A	
+Network	System/36 PC Local Area Network Communic	5727-1C6	695				521						5364+AT in a TRN	15M	
+Network	System/88 Network	5732-002	7550									SC34-0677	System/88	25M	
+Network	Systems Network Architecture Interface	5732-027	3000									GX34-1000	System/88	15M	
Network	Teleprocessing Network Simulator 2.3	5662-262					1875					.GH20-2487	MVS,XA,VM	11E	
Network	Teleprocessing Network Simulator Ver 1	5740-XT4					1840					.GH20-1907	OS/V5	11B	
+Network	Token-Ring Network Bridge Program	6403-831	1495									GA27-3677	2 TR Nets+AT,AT-Ind	05M	
+Network	Token-Ring Network NETBIOS	6467-037	35										PC,PPC,XT,AT+adaptor	05H	
+Network	Token-Ring Network Bridge Install Kit	6476-041	3285									GA27-3677	2 TR Nets+AT,AT-Ind	05M	
+Network	Token-Ring Network Manager	6476-046	1495									GA27-3677	PC,XT,AT+TR Net adpt	05M	
+Network	Token-Ring/PC Network Interconnect Progr	6476-036	495									GA27-3677	PC,XT,AT+Net adaptrs	05M	
Network	VTAM Communications Network Applications	5735-RC5		1100	402		825	302	135	215		GC27-0501	VM/SP+DOS/VSE,V51	25K	
Network	Waterloo PC Network Standalone Server	5793-AN	1650									.GB30-2411	D05+RPS on Series/1	05F	
Network	Waterloo PC Network Channel Attached	5793-AN/01	nc									.GB30-2411	2001	N05F	
Network	Waterloo PC Network VM Server	5793-AN/02	1650									.GB30-2411	2002	05F	
+Network	X.25 SNA Network Supervisory Function	5799-NYE	nc										XI (5799-B2J)	N25M	
Network	4730 Network Monitor	5668-871	20000			1710	18000				43	69	GC31-0033	GIC8/VSE,V5,1MS/V5	15K
+Network	4730 Remote Network Monitor	5668-872	2500										GC31-3572	4700 CRM Ver 2	15M
Network design	Response Time Estimator (Feature 9231)	6316-968	275										.G320-0334	PC,Pcjr,XT,3270-PC	05H
Network_mgt	Network Services	7798-NET	nc										Information Network	N05C	
+Network/PC	Token-Ring Network/PC Interconnect	6467-036	495										Token-Ring NETBIOS	05H	
Networking	ACF-TCS Networking Feature	5740-XY5/01	3960		353							.GH20-2156	6090	25C	
Networking	ACF/TCAM - Multisystems Networking	5735-RC1/01	14640		1305	10980		979	31	50	12	GC30-9500	6000,6517	25C	
Networking	ACF/TCAM - Multisystems Networking	5735-RC3/01		4070	1465		30531099	113	181			GC30-3057	6003,2111,6503,2311	25X	
Networking	ACF/VTAM - Multisystems Networking	5735-RC2/01		3080	1100		2310	825	163	260		GC38-0284	6009,2108,6509,2308	25K	
Networking	ACF/VTAM Multisystem Networking Feature	5746-RC3/01			374			337	174	278		GC27-0462	6059,6500	25K	
-Networking	JES3 Networking PRPQ	5799-AZT			2055							.GH20-2204	NJE	25K	
+Networking	X.25 Networking Facility Release 1	5732-008	5430									SC34-0677	System/88	15M	
+Networking	X.29 Networking Facility Release 1	5732-009	1770									SC34-0677	System/88	15M	
*Networks	Research Queueing Package	7798-R5Q	7800										VM, MVS	05E	

Keywords - Alphabetic Sequence

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Codes Explained in Appendix B

Keyword	Program Title	Number	OTC	ILC	MLC	DSO	DSI	DSH	MPL	MML	Mo	MoreInfo	Environment	TPLS	
New	Monotype Old Eng Text & New Berolina tm	5771-ACY	3000									G520-0004	CDPF	15E	
New	Monotype Times New Roman Cyrillic tm	5771-ACQ	3000									G520-0004	CDPF	15E	
New	Monotype Times New Roman Language Extens	5771-ACX	3000									G520-0004	CDPF	15E	
New	4250 Monotype Times New Roman tm	5771-AAR	640									G520-0004	CDPF (5668-997)	11E	
Newspapers	Text Entry & Edit Facility	5798-BAR	3330		303						12	GB30-1470	Series/1	15X	
NJE	MVS Productivity System	7798-MVS	nc										Information Network	N0SC	
NJE	MVS/SP - JES2 1.1	5740-XXS			2150			1612	117	187		GC28-1395	5752-VS2	25K	
NJE	Network Job Entry for JES2	5740-XXR			807			605	96	154		GC25-0010	MVS	15K	
NLDM	Network Logical Data Manager 1.3	5668-971			1305	207		979	155	24	38	GC25-0108	MVS,VM,VSE+NCCF	15K	
NLDM	Network Management Productivity Facility	5798-DPC	800									G320-9165	MVS+NCCF	15H	
NMPF	Network Management Productivity Facility	5798-DPC	800									G320-9165	MVS+NCCF	15H	
NMPF	VSE/Network Management Productivity Fac1	5798-DRR	1200									G320-9239	VTAM	25H	
-Node	Host Remote Node Entry System II	5796-PPL	2815		150							G320-6647	OS/VS1	15E	
Node	VSE/Distributed Systems Node Exec 1.1.0	5666-284	3800		253	3420		228	41	66		SC33-6210	VSE+VTAM	15K	
Node	VTAM Node Control Application	5785-ECE	5280		240							GB21-3052	MVS	15X	
Node	VTAM Node Control Applicatn Source Code	5785-ECE/01	nc									GB21-3052	6000,6001	N15X	
Non-profit	Association Management	5798-RNX	550									GB30-2245	Displaywriter	15X	
Non-profit	Educational Fund-Raising	5798-RNY	550									GB30-2246	Displaywriter	15X	
Non-profit	General Donor Fund-Raising	5798-RNW	550									GB30-2196	Displaywriter	15X	
Non-Relational	Data Extract Non-Relational Features	5668-786/01			750			563						25M	
-Non-S/370	FORTRAN Conversion Aid from non-S/370	5796-PFO	250		5500									11H	
Non-SNA	Non-SNA Interconnection to 3725 Ver 3.4	5668-951			1605	465		1440	419	43	68	G320-8154	OS/VS,VM/CHS	11H	
+Nonsubscrbr	ISPF/PC II Runtime Nonsubscrbr Updates	6265-487	55									GC33-2023	NCP Ver2+VTAM Ver2	25K	
+Nonsubscrber	ISPF/PC II Devt Nonsubscriber Updates	6265-485	55									G520-6006	6317025	05G	
Normal	LDMS Normal Value / Delta Checking	5798-DCH	4715		429						12	GB21-2602	5796-APB,5796-AHC	15H	
Note	PROFS Note Maintenance Facility	5798-DRT	1500									G320-0796	PROFS	25H	
NOTEBOOK	LABTECH NOTEBOOK (R)	6187-324	895									GB30-2037	PC,PC/XT,AT	05Y	
NPDA	MVS Productivity System	7798-MVS	nc										Information Network	N0SC	
NPDA	MVS/SP - JES2 1.1	5740-XXS			2150			1612	117	187		GC28-1395	5752-VS2	25K	
NPDA	Network Management Productivity Facility	5798-DPC	800									G320-9165	MVS+NCCF	15H	
NPDA	Network Problem Determination Applic 3.2	5665-321		2040	340		1530	255	30	48		GC23-0108	NCCF Version 2+XA	25K	
NPDA	Network Problem Determination Applic V3	5666-295		825	132		618	99	16	26		GC23-0108	NCCF Version 2+VSE	25K	
NPDA	Network Problem Determination Applic V3	5668-920		1650	264		1237	198	22	35		GC23-0108	NCCF Version 2+MVS	25K	
NPDA	Network Problem Determination Appl Ver 2	5668-983		1210	113		907	85	27	43		GC34-2061	5735-XX6	15K	
NPDA	NPDA 3600 Threshold Analysis	5668-983/01		1210	176		907	132	19	30		GC34-2061	6008,6500,2155,2355	25K	
NPDA	NPDA 3600/4700 Threshold Analysis	5665-321/01		1210	176		907	132	19	30			2116	25K	
NPDA 3.2	Network Problem Determination Applicatn	5664-190		1350	225		1010	169	20	32		GC23-0108	VM	25K	
NPM	Network Performance Monitor Release 2	5665-333		3210	615		2410	460	57	91		GH20-6359	MVS+VTAM	23K	
NPSI	X.25 NCP Packet Switching Interface 4.3	5668-981		770	269		357	202	40	64		GC30-3189	3720/25+NCP 4.2	25K	
NRF	Network Routing Facility Release 3	5668-963		3525	1175		2644	881	248	397		GC27-0594	ACE/NCP 4.2	25K	
+NSF	X.25 SNA Network Supervisory Function	5799-MVE	nc										XT (5799-BZJ)	N25M	
NTD	Network Terminal Option Release 4	5735-XX7		660	206		495	155	12	19		GC38-0297	ACF/NCP 4.2	25K	
+Nucleic	Chemicals of Life: Proteins & Nucleic Ac	6024-409	65									G520-1107	PC,PCjr,XT,AT+color	05Z	
+Nucleic	Chemicals of Life: Proteins & Nucleic Ac	6024-439	295									G520-1107	PC,PCjr,XT,AT+color	05Z	
Number	Basic Number Concepts (Private Tutor)	6024-297	55									G520-1107	PC,PCjr,XT,AT,PPC	05Z	
Numbers	The Combined Adventures with Numbers	6276-609	40										PC,XT,jr,PPC,AT	05R	
Numerical	CATIA (R) Numerical Control	5668-826			288							G520-6650	Replaced by 5668-833	T15E	
+Numerical	CATIA (R) Numerical Ctl 2.2 4 CSTU	5668-833			288								CATIA Base	T15E	
+Numerical	CATIA (R) Numerical Ctl Unlimited CSTU	5668-833/01			288								4723,2203	T15E	
-Numerical	Numerical Geometry System - Basic	5785-FAH	33880		1540							24	GB21-2608	MVS	15H

Keyword	Program Title	Number	OTC	ILC	MLC	DSO	DSI	DSH	MLP	MML	Mo	MoreInfo	Environment	TPLS
-Numerical	Numerical Geometry System - Advanced	5785-EAJ	29040		1385							24.	GB21-2608 5785-EAH	15H
-Numerical	Numerical Geometry System APT-AC Bridge	5785-EAN	7260		350							24.	GB21-2608 5785-EAH	15H
Nurse	PCS Nursing Care Plans	5796-PQC	8250	1500	575							.G320-6632	5796-ANY.ATZ	15X
Nursing	PCS Nursing Care Plans	5796-PQC	8250	1500	575							.G320-6632	5796-ANY.ATZ	15X
Obj	FORTRAN IV Compiler & Obj Sup Lib Ver 2	5719-FO2	950		22							GC34-0306	EDX/RPS	15C
Object	APL2 Fonts (Source or Object)	5771-ADB	160									0544-3088	PSF+3800/20/3812	21E
+Object	CAEDS (R) Object Modeler 1.0	5669-207	6060										RT	05H
+Object	CAEDS (R) Object Modeler	5713-AB	varies		445								Base	VIUE
Object	Datal Fonts (Source or Object)	5771-ADA	160									0544-3088	PSF+3800/20/3812	21E
Object	Object Library Maintenance	6276-543	20										PC.XT.ir.AT.3270-PC	05R
Object	Object Management Facility	5798-RLZ	880									.GB30-2285	System/38	15X
Object	Pi and Specials tm (Source or Object)	5771-ABC	480									0544-3088	PSF+3800/20/3812	21E
Object	Sonoran Sans Serif tm(Source or Object)	5771-ABB	640									0544-3088	PSF+3800/20/3812	25E
Object	Sonoran Serif (Source or Object)	5771-ABA	640									0544-3088	PSF+3800/20/3812	21E
Objectives	Defining Goals and Objectives	6871-529	113										PC	05Y
OCCF	Network Management Productivity Facility	5798-DPC	800									.G320-9165	MVS+NCCF	05H
OCCF	Operator Communications Control Facility	3665-208		1050	350			786	262	8	13	GC24-5225	MVS,NCCF,ACF/VTAM	15K
OCCF	Operator Communications Control Facility	5746-XCS	5800		155	5220		139	13	21		GC33-6113	VSE/AF Version 2	15K
OCCF	SSX/VSE OCCF	5799-BNF/09	1565		96	1410		86					4888,4889,4890,4891	25K
OCL	OCL Online Procedure & Menu Convrsn	5785-DEF	709									.G320-9191	System/34+CICS/SSX	15X
-OCL	S/3 OCL to DOS/V5 JCL Conversion Aid	5798-CQJ	660									.GB21-2130	DOS/V5	05H
OCR	Office System - Time from OCR	5793-ABN	2200									.GB30-2170	5793-AAZ+ABZ	05X
OCV/RR	Hospital Info, Order Comm & Results Rept	5727-AB1/01	15000		750							.SB30-7049	6082	15H
OE	Business Management Series OE Training	6410-963	95										Order Entry	05G
OEM	Serial OEM Interface Access Method	5664-201	2500		139							.GA33-1585		25E
OEM	Serial OEM Interface	5666-330	2500		139							.GA33-1585		25E
+OEM	THE FIX OEM Toolkit	5793-AQ0/11	1250									.GB30-2027	5793-AGM	05Y
Offering	MVS Introductory Base Offering	5751-CS3	varies									.GC23-0127	5751-CS1	V 5
XOffering	MVS/Extended Architecture Offering 1985	7798-XAO	nc										non-MVS	N25K
Offering	VM/SP System Offering 4.0	5750-AAK	varies									.GC20-1890	VM/SP	V05E
Office	Distributed Office Support System Ver 3	5665-290		4570	1485		3425	1110	223	357		.GC30-3085	CICS/VS+MVS,VA	25K
Office	Distributed Office Support / 370 Ver 2	5666-264	29370		1335	22110		1005	214	342		.GH12-5139	DOS/VSE & CICS/VS	25K
Office	Distributed Office Support System Ver 3	5666-270		1710	570		1275	425	176	282		.GC30-3085	CICS/VS+VSE	25K
Office	Distributed Office Support System Rel 3	5668-955	4320		235	3670		200	43	68		.GH12-5139	DOS+DISOSS Ver 2/3	25K
Office	Distributed Office Support / 370 Ver 2	5668-982	29150		1325	21970		999	255	408		.GH12-5139	OS/VS,IMS/VS,CICS/VS	25K
Office	Distributed Office Support Facility Rel6	5761-XR1	12300		805	10455		683	115	184		.GC27-0546	DPCX	15K
Office	Doctors Office Demo & Tutorial	4360-486	nc									.G520-3917	IBM Internal	N05Z
+Office	Doctors Office Manager II	6467-035	2749										PC.XT.AT+10MB	05Z
Office	EDX Department Office Control System	5798-DQ0	1980									.G320-0367	Series/1	15H
Office	Office Management System	5727-OS1	1950			1715						.G580-0454	Upgrade to PS/36	15X
Office	Office Management System	5727-056	780			585						.G580-0570	System/36 PC	05H
Office	Office Sys - Disbursements from Phone	5793-ABY	2200									.GB30-2170	5793-AAZ+ABZ	05X
Office	Office System - Financial Schedules	5793-ABN	2640									.GB30-2166	5793-ABZ	05X
Office	Office System - Mailings	5793-ABP	1760									.GB30-2166	5793-ABZ	05X
Office	Office System - Time From Displaywriter	5793-ABQ	2200									.GB20-2170	5793-AAZ+ABZ	05X
Office	Office System - Time from OCR	5793-ABN	2200									.GB30-2170	5793-AAZ+ABZ	05X
Office	Professional Office System	5664-176	22000	5000	895	19790	3745	710				.GH20-5601	VM	25B
Office	Professional Office System 2.1, 2.2	5664-309	22000		995	16500		745				.GH20-6795	VM	T25E
Office	Professional Office System PC Support	5664-309/01	6000		300	4500		225				.4766,4769,6569,6572		TOUM
+Office	RPS Office Connect 1.0	5719-XI3	6600									.GC09-1116	Series/1	1UM

Keywords - Alphabetic Sequence

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Codes Explained in Appendix B

Keyword	Program Title	Number	OTC	ILC	MLC	DSO	DSI	DSM	MLP	MML	No	MoreInfo	Environment	TPLS
+Office	System Support Program - Office Enhancem	5727-SS1/16	nc										6240	NISA
+Office	Telephone Access to Office Systems	6467-039	250									.G320-9154	PROFS.PS/36,PS/38	05E
-Office	3730 Distributed Office Support for 6670	5798-DCW	1505		137								12.GB21-2631 CICS/05/VS	15H
Office automati	IX Integrated WORD/MATH	6316-989	659										.3209-223 PC/IX	05H
OFFICE/38	Business Graphics Utility	5714-GP1	2000		107	1760		94					GC09-1060 System/38	15E
OFFICE/38	Language Dictionaries	5714-DCT	195			172							GC09-1021 5714-WP2	15A
OFFICE/38	OFFICE/38 - WORKSHEET/38 tm	5710-RRL	2790										.GB30-2383 System/38	15I
OFFICE/38	OFFICE/38 Administrative Mgmt	5714-WP1	1500			1320							GC21-7951 System/38	15E
OFFICE/38	OFFICE/38 Applications Made Easy	5714-XE1	4400										.GB30-1952 System/38	15X
OFFICE/38	OFFICE/38 Personal Services/38	5714-WP3	6500			400	5720	352					GC09-1071 System/38	15A
OFFICE/38	OFFICE/38 Text Management	5714-WP2	1800			67	1584	59					.G580-0460 System/38	15A
+Offline	Allen-Bradley PLC-2 Offline Programming	5793-AHH	1250											Industrial PC
Offline	CAMM Allen-Bradley Controller Offline	5793-AEY/05	500											6509
Offline	CAMM Analogic tm Controller Offline	5793-AEY/06	500											6510
Offline	CAMM General Electric tm Contrlr Offline	5793-AEY/07	500											6511
Offline	CAMM Modicon tm Controller Offline	5793-AEY/08	500											6525
Offline	CAMM Turnbull Controller Offline	5793-AEY/10	500											6512
Offline	CAMM TIMAY tm Controller Offline	5793-AEY/09	500											6526
-Offline	Video Reverse Extract Offline Data Entry	5798-CJG	1690		154								12.GB21-1843 DOS/VS VIDEO/370	15H
-Offline	Video Reverse Extract Offline Data Entry	5798-CJP	1690		154								12.GB21-1843 OS/VS VIDEO/370	15H
Offline	3890 DOS/VSE Offline Fine Sort II	5798-CFD/01			88								12.GB21-1662 9560	15H
Offline	3890 Offline Sort Enhancements	5798-BDY	3140										.GB21-1383 OS/VS	15H
Offline	3890 Offline Sort	5798-CFD	1635										.GB21-1662 DOS/VS+5798-BDC	15H
OGL/MVS	Overlay Generation Language Release 1	5665-308		801	267				88	141			G520-5023 MVS+3800,3820	21K
OGL/VSE	Overlay Generation Language Release 1	5666-324		750	250				80	128			G544-3088 VSE+3800/3820	21K
Old	Monotype Old Eng Text & New Berolina tm	5771-ACY	3000										G520-0004 CDPF	15E
OLTD II	CICS/VS Online Test Debug II	5796-AHJ	2625		112								.G320-5710 DOS/VS, OS/VS	15E
OLTEP	OLTEP SCP	5656-092	nc										GC33-6156 VSE	NO35
OMNINET tm	Local Area Network PrintManager	6317-042	800										G520-5102 PC Network, OMNINET	05H
OMS/36	Office Management System	5727-051	1950			1715							.G580-0454 Upgrade to PS/36	15X
-OMS/36	Upgrade OMS/36 to PS/36	5727-WP3/01	1250			1100							4770, 9683	15A
OMS/36 upgrade	Personal Services/36	5727-WP3	3500		203	2640							G580-0454 DisplayWrite/36	15A
On-Us	3890 On-Us Editing	5798-DBL	2000		231								12.GB21-2559 DOS/VSE	15H
On-us items	Document Control Section Edit 3694	5798-RFL			100								12.GB30-1645 System/34+5748-F53	15X
OPC	Operations Planning & Control	5740-XT9	38390		1745	26950		1225					.GH19-6120 OS/VS	21L
-Open	DASD Device Independence Open	5798-AHH	1080		49								.GB21-1002 DOS/VS	01H
Open	Financial- Open Item Acctg A/R A/P Rel 3	5668-969	9855		448								.GH20-2467 CICS+IMS+PL/I	15B
Open	Open Item Accounting A/R A/P Rel 3	5746-F54	8775		399								.GH12-5120 CICS+/DL/+/PL/I	15E
Open order anal	Retail Inventory Planning & Mds	5796-ZGT	66000										.GB30-2319 System/36	15X
Open-to-buy	Retail Inventory Planning & Mds	5796-ZGT	66000										.GB30-2319 System/36	15X
+Openers	PC Picturepak tm - Eye Openers	6871-340	195										.GB30-2037 Storyboard	05Y
+Opening	BANCSar tm 4700 Account Opening	6430-784	750										PC, XT, AT+4700	05E
Operator	CPS Operator Station/Debug Pack	5799-TBB	240		10								SC34-1562 Series/1	15C
Operator	DPPX Programmed Operator Facility	5660-273	580			493			6	10			GC27-0400 DPPX	15K
-Operator	IMS/VS Master Terminal Operator Training	5798-DEG	990										.GB21-2736 IIS, IIPS	1EH
Operator	MVS Operator Problem Determination	5798-DEY	836										.GB21-2760 IIS, IIPS	1EH
Operator	Operator Communications Control Facility	5665-288		1050	350			786	262	8	13		GC24-5225 MVS, NCCF, ACF/VTAM	15K
Operator	Operator Communications Control Facility	5746-XCS	5800		155	5220		139	13	21			GC33-6113 VSE/AF Version 2	15K
Operator	Programmer & Operator Aid	5799-BHM	700										GC21-7955 System/34	15X
Operator	Programmer & Operator Productivity	5799-BRJ	500										GC21-9074 System/36	15X

Keyword	Program Title	Number	OTC	ILC	MLC	DSO	DSI	DSM	MLP	MML	Mo	MoreInfo	Environment	TPLS
Operator	Programmer & Operator Productivity Aid	5799-BXT	200										G580-0570 System/36 PC	05H
Operator	Secondary Operator Facility	5798-CRE	1005										.GB21-2179 OS/V52,MVS/XA	15H
Operator	3033 AP/MP Operator Training	5798-DFA	1385										.GB21-2769 I1S,I1PS	1EH
Operator	3276 / 3278 Operator Training Course	5798-CWZ	2115										.GB21-2290 I1S,I1PS	1EH
Opportunity	Equal Employment Opportunity Report	5798-RQC	1100										.GB30-2185 5727-M69	15X
Opportunity	Equal Employment Opportunity Report	5798-RQK	825										.GB30-2179 System/34	15X
Optical	Student Optical Scanning System	5796-ZMG	1500										.GB30-6002 Student Mgt System	15H
Optimal	6250 Optima tm	5771-AB1	660										G520-0004 CDPF (5668-997)	1IE
Optimization	FORTRAN H Extended Optimization Enhanced	5796-PKR	3780	169									.G320-9205 MVS,VM	15H
Optimizer	RDL Optimizer	5798-DKQ	1285										.GB21-3012 MVS	15X
Optimizer	Link Pack Area Optimizer	5798-DKP	1650										.GB21-3010 MVS	15H
Optimizer	MVS Link Pack Area Optimizer Extensions	5798-DRD	1705										.G520-9206 MVS	15H
Optimizer	PL/I Optimizer & Library	5666-276			347			260	50	80			.GC33-6143 SSX/VSE	15K
Optimizing	PL/I Optimizing Compiler Release 5.1	5734-PL1	296					222	39	62			GC33-0001 MVS,XA+DFP,VM,CICS	15K
Optimizing	PL/I Optimizing Compiler & Library 5.1	5734-PL3	398					298	53	85			GC33-0001 MVS,XA+DFP,VM,CICS	15K
Optimizing	PL/I Optimizing Compiler & Library XT/370	5734-PL3/01	1008					22					3000,3005	05C
Optimizing	PL/I Optimizing Compiler	5736-PL1	251					188	39	62			GC33-0004 D0S/VSE,SSX/VSE,CMS	15K
Optimizing	PL/I Optimizing Compiler & Library	5736-PL3	344					258	53	85			GC33-0004 D0S/VSE,SSX/VSE,CMS	15K
OPTIMUM(R)	Interactive Financial Planning System	7798-OPT	varies										IBM Information Net	V05E
Option	ACP TPF2 / High Performance Option	5748-T12/02		21000	7000								GH20-6200 2112,6080	25E
Option	File Cabinet Option Wide-Screen Feature	5798-CPY/01						250					24.GB21-2103 6013,6014	15H
Option	File Cabinet Option / VTAM	5798-DCG	15960					732					.GB21-2604 MVS/SP,MVS/XA	15H
Option	FORTRAN IV Library Option 1	5746-LM3						40		30	7	11	GC28-6882 D0S	15K
Option	GDDM Graphics Productivity Option	5796-PRZ	1320										.G320-9142 5748-XXH	15X
Option	Network Terminal Option Release 4	5735-XX7		660	206			495	155	12	19		GC38-0297 ACP/NCP 4,2	25K
Option	Programmed Eval of Contract Option Strat	6276-614		250									PC,XT,Jr,AT,3270-PC	05R
Option	VM/XA Migration Aid Remote 3270 Option	5664-173				5325	1775						GC19-6221 VM/SP	25K
Option	VM/XA Migration Aid Remote 3270 Option	5664-183				2400	800						GC23-0126 VM/XA+VM Pass-thru	15H
Optional	EDX Energy Mgt - Optional Source Code	5796-RJT/02	308										3014	15H
+OPTIMUMX	THE FIX Device Driver for OPTIMUMX tm	5793-AGQ/10	795										.GB30-2027 5793-AGH	05Y
OPUS/38	Online Presentation Utility	5798-DRB	1090										.G320-0252 System/38	15H
+ORACLE	ORACLE tm Release 1	5732-024	27000										System/88	15M
Ord	Business Management Series Ord Entry/Inv	6410-954	775										.GH30-9013 PC+10MB	05G
Ord	Inv Mgmt Prod Rep & Ord Val Eval Improve	5714-D46	9975			349	7475	261					.GH30-0080 System/38	1ID
+Order	Business Adviser - Order Entry Edition	6466-994	995										LAN or TokenRing	10SG
Order	Customer Order Servicing - Shipping Mgmt	5668-906	14070			428							.GH19-6369.CICS/VS+IMS or DL/I	15B
Order	Customer Order Servicing Data Management	5785-DCN	9710			294							.GB21-2633.D0S/VSE,0S/V5	15E
Order	Customer Order Servicing Order Management	5785-DCP	9710			294							.GB21-2633.D0S/VSE,0S/V5	15E
Order	Customer Order Servicing Order Management	5785-DCP	9710			294							.GB21-2633.D0S/VSE,0S/V5	15E
Order	COPICS Shop Order Load Analysis Reporting	5668-908	15430			469							.GH19-6356.CICS+C0B0L+IMS,DL/I	15B
Order	COPICS Shop Order Release II	5798-DCQ	11490			372							.GB21-2648.D0S/VSE,0S/V5 DL/I	15E
Order	Distribution Control - Order Entry	5795-AAF	11990										.GB30-2064 5795-AAE	15X
Order	Distribution Control - Order Entry	5795-ACB	11990			545							.GB30-2064 5795-ACA	15X
Order	DPPX Distb Plant Maint Work Order	5787-GAA/01	14850										6001	25
Order	Hospital Info, Order Comm & Results Rept	5727-AB1/01	15000			750							.SB30-7049 6082	15H
-Order	Manufacturing Order Tracking Subsystem	5798-RCT	570			114							06.GB30-1536 System/34	15H
Order	Order Ent & Inv - Upgrade from MAPICS	5714-M79/01	2630				2314						4625,9617	15E
Order	Order Entry and Invoicing	5714-M69	6040			142	3175	105					.GH30-0708.System/38	1ID
+Order	Order Entry and Invoicing	5714-M79	5520			280	4858						.GH30-9036.System/38	15E
Order	Order Entry and Invoicing - Mfg	5726-M59	1940			94							.GH30-0220.System/34	1IC



Keyword	Program Title	Number	QTC	ILC	MLC	DSO	DSI	DSM	MHP	MHL	Mo	MoreInfo	Environment	TPLS
Order	Order Entry and Invoicing	5726-M49	3935		161	2955		119				.GH30-0221	System/34	IIX
Order	Order Entry and Invoicing	5727-M49	4125		238	3095						.GH30-9001	CASS	15B
Order	Order Entry and Invoicing	5727-M79	5280		264	4645						.GH30-9004	CASS	15E
-Order	Order Entry/Invoice to Gen Ledgr Interf	5798-RTB	550									.GB30-2402	S/34+Ord Entry	15X
Order	Order Entry/Invoice to Gen Ledgr Interf	5798-RIC	525									.GB30-2402	S/36+Ord Entry	15X
Order	Order Entry/Invoice to Gen Ledgr Interf	5798-RID	550									.GB30-2402	S/38+Ord Entry	15X
Order	Order Management System	5796-ZKB	71500									.GB30-2466	System/38	15X
Order	PARIS- Purchase Order & Merchandise	5796-PTE		3095	891						36.	G320-9145	5666-294	15X
+Order	SOLOMON III tm Order Entry/Invoicing	5669-093	995									SV21-8041	Accounts Receivable	05Z
Order	Textbook Order Control	5798-RIC	1400									.GB30-1905	Sys/23 Datamaster	15X
Order servicing	TRV-COPICS	7798-COP	nc										Information Network	N0SC
-Order-Entry	BICARSA Online	5798-RFR	5645	495							12.	GB30-1667	System/34	15X
Ordering	Purchase Ordering & Mdse Info. System	5796-FXP	47300									G320-9195	MVS+PARIS/Base	15H
Ordinary	Consolidated Functions Ordinary Vers 2	5736-NI3	10370	500								.GH20-5006	OS/DOS	11C
Organization	Data Base Organization and Maintenance	5736-XX4	3620	132								.GH20-0771	DOS, DOS/VS	25C
+Organization	Taxonomy: Classification & Organization	6024-416	65									G520-1107	PC,XT,AT,PCjr+color	05Z
+Organization	Taxonomy: Classification & Organization	6024-446	296									G520-1107	PC,XT,AT,PCjr+color	05Z
+Organizer	Daily Organizer	6276-557	20									PC,XT,AT,PCjr,	3270PC	05R
Organizer	Fixed Disk Organizer (Feature 4111)	6024-111	55									G520-3917	PC,XT	05Z
Organizer	Personal Computer Organizer	6317-027	165									G320-0650	All ex jrteZ-VU	05G
Oriented	Communication Oriented Message System	5668-007	11505	524								.GH12-5127	OS/VS,MVS/XA+CICS/VS	15E
Oriented	Communication Oriented Message System	5746-XXM	11520	524								.GH12-5127	DOS/VS	25B
Oron	Oron tm and Unifers (R)	5771-ACL	1500									G520-0004	CDPF	15E
OS/VS1	OS/VS1 Basic Programming Extensions	5662-257		259			194	48	77			GC24-5218	OS/VS1+5740-AM6	15K
OS/VS1	OS/VS1 Performance Tool	5796-PGL	6600	398								G320-5680	OS/VS1	15X
OS/VS1	OS/VS1 Release 7	5652-V51	nc									GC30-3057	S/370 Stabilized	H25J
OS/VS1	System IPD for OS/VS1 Release 7	5750-AA8	varies									GC20-1861	S/370	Y
OS/VS1	VM/CMS to OS/VS1 Command Facility	5796-PQM	1650	330	100							G320-6655	VS1 under VM	15X
-OS/6	OS/6 Communications & File Conversion	5798-W2H	785	157							06.	GB30-1431	System/34,32,3	15H
OS/MOSCHECK	Electronic Payment Sys_Suppl/Check Procg	5796-PYK	15400									G320-0218	VS1,MVS+3890	15H
Outliner	Symphony Text Outliner	6187-252	139									.GB30-2037	Symphony tm	05Y
Outpatient	DPGX Outpatient Billing System	5798-DCP	3200	291							12.	GB21-2626	DPGX	15H
Output	DPGX Spool Output Transcription	5798-DHM	640									.GB21-2926	DPGX	15X
Over-the-Counter	Over-the-Counter Inv & Accts Rec Inquiry	5726-DM5	2255									.GB30-2501	System/34	15C
Overhead	Overhead Express tm	6187-191	195									.GB20-2037	PC,XT,3270-PC,AT	05Y
+Overlay	Overlay Generation Language/VM	5664-293	7670	295								G520-5102	VM	25M
Overlay	Overlay Generation Language Release 1	5665-308		801	267				88	141		G520-5023	MVS+3800,3820	21K
Overlay	Overlay Generation Language Release 1	5666-324		750	250				80	128		G544-3088	VSE+3800/3820	21K
-Overstrike	Overstrike / Underscore - 3270 DSC	5799-BQM	87									G544-2279	DH+5608-SR6	05E
+Ownership	Land Ownership Tax Mapping	5796-PXK	10000									G320-0359	Graphic Prog Genertr	25H
OXYCALC	OXYCALC (R)	5796-PNG	8000									G320-9167	VM,MVS+GDDM	15X
P&L	Financial-Status P&L Balance Sheet Rel3	5668-968	5100	232								.GH20-2467	CICS+IMS+PL/I	15B
P&L	P&L and Balance Sheet Release 3	5746-F55	4375	199								.GH12-5120	CICS+DL/I+PL/I	15E
-P-System	UCSD p-System (R) Pascal Compiler	5608-MA1	250									G552-0371	5608-MS2	15X
-P-System	UCSD p-System (R) FORTRAN 77 Compiler	5608-MA2	250									G552-0371	5608-MS2	15X
-P-System	UCSD p-System (R) Code Generator	5608-MA3	150									G552-0371	5608-MS2	15X
-P-System	UCSD p-System (R) Runtime System	5608-MS1	375									G552-0371	Displaywriter	15X
-P-System	UCSD p-System (R) Development System	5608-MS2	950									G552-0371	Displaywriter	15X
PA II	CICS Performance Analyzer II	5798-CFP	2100	83								.GB21-1862	CICS/VS	15E
Pac	Crypto-Mania Puzzle Pac	6276-577	15										Crypto-Mania	05R

Keyword	Program Title	Number	OTC	ILC	MLC	DSO	DSI	DSM	HLP	MML	Mo	MoreInfo	Environment	TPLS	
Pac	5218 Printer Attachment Convenience Pac	6113-651	220									G570-2063	PC,XT	OSZ	
*Pack	Circuit Board Design - Circuit Pack 4.1	5796-PRP	48600	8355	2785		58351945					G320-9175	VM+5080/3250/3277GA	1TSE	
Pack	Cluster Program - Five Pack	6024-182	439									G520-3917	PC,PCjr,PPC,XT	OSZ	
Pack	CPS Operator Station/Debug Pack	5799-TBB	240		10						24	SC34-1562	Series/1	1SC	
Pack	Link Pack Area Optimizer	5798-DKP	1650									.GB21-3010	MVS	1SH	
Pack	MVS Link Pack Area Optimizer Extensions	5798-DRD	1705									.G320-9206	MVS	1SH	
-Package	CICS/V5 Operations Support Package	5798-DBJ	484		44						12	.GB21-2554	D05/VSE, DOS, VS, OS/V5	1SH	
Package	CIPREC Extended Function Package	5740-XC3/01		1113	488							.OH19-1150	6186,6195	2SB	
Package	CIPREC Extended Function Package	5746-XC3/01		948	362							.OH19-1150	6118,6119	2SB	
-Package	Graphic Subroutine Package	5796-PPR			90						24	G320-6657	VM/SP	1SX	
-Package	IMS Application Productivity Package	5785-CZG	3410									.GB21-3027	MVS/TSO, VM/CMS	1SX	
Package	RealEstate Investment Package	6276-597	20										PC,XT,jr,AT,PPC	OSR	
*Package	Research Queueing Package	7798-RSQ	7800										VM, MVS	OSE	
Package	Scientific Subroutine Package	5798-NYD	800									.GB30-1563	Series/1 + FORTRAN	1SX	
Package	System Support Package	5727-SS1/10	195										2874	1SE	
+Package	THE FIX Online Report Package	5793-AGQ/15	150									GB30-2027	6593	05Y	
+Package	THE FIX Online Report Package	5793-AGW/04	150									GB20-2037	6593	05Y	
Package	VM Predictor Data Reduction Package	5799-MMR	nc										VM	NOSE	
Package	VSE/System Package - Production 1.1.0	5666-296	40610		1710	36550		1540	324	518		GH20-5347	S/370,4300,303x,3083	1SK	
Package	VSE/System Package - Generation 1.1.0	5666-297	46700		1978	42028		1775	402	643		GH20-5347	S/370,4300,303x,3083	1SK	
Package	VSE/System Package 2.1.4 Refresh	5666-316	48500		2160	43650		1945	433	693		GC33-6176	4300,303x,308x,S/370	2SK	
Package	3704/5 Emulator Support Package	5744-ANL	nc									GC30-3002	OS/V5,VM	N0SJ	
-Package	3850 Trace Interpretation Package	5785-DBM	3300		250							.GB21-2561	MVS	1IH	
Packet	RPS Packet Network Support	5799-TCP	2490		64								Series/1	1SE	
Packet	X.25 NCP Packet Switching Interface 4.3	5668-981		770	269		557	202	40	64		GC30-3189	3720/25+NCP 4.2	2SK	
PACS/MTF	Plant Auto Comm Sys/Mod Transfer Facilit	5798-RNN	1900									.G520-0836	MVS+VTAM+EDX on S/1	1SH	
-Page	3800 Page Formatting Service	5796-AHE	3890		295						12	.G320-6067	OS/V5	1SH	
+Page	Page Printer Formatting Aid/VM	5664-199	2730		105							G520-4000	VM+3800/3820	2SH	
+Page	Page Printer Formatting Aid Release 1	5665-351			105							OS44-3181	MVS,XA+3800-III,3820	1IE	
+Page	Page Printer Formatting Aid Release 1	5666-327		250	75				60	96		OS44-3088	VSE	1SX	
-Page	3800 Page Mode - Text and Image Merge	5798-DPK	5500		250							.G320-9185	MVS	1SX	
-Page	3800 Side-by-Side Page Processor	5798-DFW	781		71							.G320-2816	OS/V5	1SH	
Pageing/swapping	Cache Analysis Aid Version 4 - 3880	5799-MXA	nc										MVS	NOSE	
Pageprinter	VM3812 Pageprinter VM Support	5798-DTE	1900									.G320-0799	VM	1SH	
Pageprinter	3812 Pageprinter Driver	6466-981	49									.G320-0819	PC,XT,AT+256k	OSE	
Pageprinter	3812 Pageprinter Font Management System	6466-982	375									.G320-0817	XT,AT+10MB	OSH	
-Paging	Paging System - Extended Swap	5796-PNN	1910		145							.G320-6403	MVS/SE MVS/SP	1SH	
Paint	Color Paint	6024-299	99									G520-1107	PCjr+color	OSZ	
Palatino	4250 Palatino tm	5771-AAN	640									G520-0004	CDPF (5668-997)	1IE	
Palette	PC Palette	6276-537	40										PC,XT,jr,AT,3270-PC	OSR	
+Palette	PC Palette Utility	6276-640	20										PC Palette 6276537	OSR	
Panel	DPXC Program & Panel Data Set Utility	5798-DHX	368									.GB21-2928	MVS, DOS/VSE	OSX	
Panel	Panel 2 Line Art Program	5796-PPA	2065		94						24	G320-6420	VM/370, OS/V5	1SH	
PANVALET	PANVALET tm (ISPF)	7798-PAN	varies										IBM information Net	VOSE	
PANVALET	PANVALET tm (SPF)	7798-PAN	varies										IBM information Net	VOSE	
Parameter	DPFX/3644 Parameter Table Generator	5760-EDI	312		27	240		21	7	11		GC24-5179	DPFX	1SX	
Parameter	3644 Parameter Table Generation Facility	5668-998	2400		78	1800		59	8	13		GC31-0009	D05/VSE, OS/V51	1SK	
PARIS	Purchase Ordering & Mdsse Info. System	5796-PXP	47300									.G320-9195	MVS+PARIS/Base	1SH	
PARIS	Receiving, Checking & Distribution System	5796-PXQ	20350									.G320-9146	MVS+PARIS/Base	1SH	
PARIS-	PARIS- Purchase Order & Merchandise	5796-PTE		3095	891							36	G320-9145	5666-294	1SX

Keywords - Alphabetic Sequence

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Codes Explained in Appendix B

Keyword	Program Title	Number	OTC	ILC	HLC	DSO	DSI	DSH	MLP	MHL	Mo	MoreInfo	Environment	TPLS
PARIS-	PARIS- Receiving Checking & Distribution	5796-PTD		995	287							36.G320-9146	5666-294	15X
PARIS/Base	Planning Aid for Retail Information/Base	5665-320		4708	1350							.GE20-0582	DFD5+DFEF+DMS+IMS+CO	15E
PARIS/Base	Planning Aid for Retail Information/Base	5666-294	22275	2775	747							.GH20-5611	DL/I, C1C5/DOS/VS, VSE	15E
+PARIS/Invoice	PARIS/Invoice Processing System	5796-TCL	40000									.G320-9487	PARIS/Base+MVS	25H
+PARIS/Invoice	PARIS/Invoice Processing System	5796-TCN	28000									.G320-9487	PARIS/Base+VSE	25H
Partial	SSX/VSE Partial Function	5799-BNF	5390	331	4850	298	123	197				GC33-6143	4300	25K
Partial	VSE/System Product - Partial Function	5799-BMH	12490	502	11240	452	433	693					4300,303x,308x,5370	15K
Partial	VSE/SP Generation - Partial Function	5799-BNC	11190	365	10068	330	402	643				GH20-5347	S/370,4300,303x,3083	15K
Partial	VSE/SP Production - Partial Function	5799-BNB	9733	318	8761	286	324	518				GH20-5347	S/370,4300,303x,3083	15K
+Parts	Auto Dealer - Parts Invoicing	5796-ZNY	5500									GB30-6013	System/36	15H
+Parts	Auto Dealer - Parts Inventory	5796-ZNZ	11800									GB30-6013	System/36	15H
+Parts	Auto Dealer, Parts Inv,Upgr from 5796ZGY	5796-ZNY/01	1100									GB30-6013	System/36	15H
+Parts	Auto Dealer, Parts Inv, Upg from 5796ZGZ	5796-ZNZ/01	1690									GB30-6013	System/36	15H
-Parts	Dealer Parts Inventory Management	5798-RBG	6930			315						24.GB30-1498	System/34	15H
+Parts	Electronic Grammar (Parts of Speech)	6276-552	25									PC,XT,AL,PCjr		05R
+Parts	Parts of Speech Series: Grades 3-4	6024-333	100									0520-1107	PC,XT,AT,PCjr+color	05Z
+Parts	Parts of Speech Series: Grades 5-6	6024-334	100									0520-1107	PC,XT,AT,PCjr+color	05Z
+Parts	Parts of Speech Series: Grades 3-4	6024-378	450									0520-1107	PC,XT,AT,PCjr+color	05Z
+Parts	Parts of Speech Series: Grades 5-6	6024-379	450									0520-1107	PC,XT,AT,PCjr+color	05Z
Parts	Vehicle Maint - Parts Inventory	5796-RGG	10640	968								12.GB30-1680	System/38	15X
Parts mgt	DPX Materials/Purchasing and Reporting	5796-PXH	99000									.G320-0353	DPX+CDBOL	15H
+PASCAL	PASCAL Release 1	5732-015	5900									SC34-0649	System/88	15M
PASCAL	TURBO PASCAL	6187-326	70									GB30-2037	PC,XT,AT,PCjr	05Y
Pascal/MT+	Pascal/MT+ tm	6871-352	400									GB30-2037	PC,XT,3270-PC	05Y
Pascal/VS	Pascal/VS Compiler	5796-PNQ	6300	247	5670	188						.G320-6387	VM/CS,OS/VS,MVS/XA	15E
Pascal/VS	Pascal/VS XT/370	5796-PNQ/01	554	11									3025,3028	05C
Pass-through	DPX 3270 Data Stream Compatibility	5760-RC1	750	28	637	24	38	61				GC27-0400	DPX	15K
Pass-Through	Pass-Through Facility	5748-RC1	3000	185	2700	139	90	144				GC24-5206	VM/SP,VM/BSEF,VM/SE	15K
+Pass-Through	SSP Display Station Pass-Through	5727-SS1/14	500	40	440								6079,4687,4688,4689	15A
Pass-Through	3101 VM Pass-Through Support	5796-PPF	170									.G320-6637	VM/SP,VM/BSEF,VM/SE	15E
Pass-Through	3270 Bisync Pass-Through	5746-AMS	4755	217								.GH20-2405	DOS/VSE+CICS/VS	15X
Passbook	Forms / Passbook Printer - 4720 FCS	5799-BJE	1500										DOS/VSE,OS/VS+3600	15L
Passive	Passive Transport, Diffusion and Osmosis	6024-320	65									0520-1107	PC,PCjr,XT,AT,PPC	05Z
Passive	Passive Transport, Diffusion and Osmosis	6024-389	295									0520-1107	PC,PCjr,XT,AT,PPC	05Z
Pathology:	Pathology: Diseases and Defenses	6024-343	65									0520-1107	PC,PCjr,XT,AT,PPC	05Z
Pathology:	Pathology: Diseases and Defenses	6024-390	295									0520-1107	PC,PCjr,XT,AT,PPC	05Z
-Patient	HCS DL/I Medical Record Abstract System	5796-XYL		747								24.G320-6341	VSE+5796-CA,CCB	15H
Patient	HCS PCS Patient Care System OS	5796-ANY		2900								24.G320-5756	MVS+CICS+IMSDB	25H
Patient	HCS PCS Patient Care System DOS	5796-ATZ		3190								24.G320-5756	VSE+CICS+DL/I	25H
Patient	Patient Billing Hospital	5726-H11	1555	82								.GH30-0404	System/34	11D
+Patient	Patient Care - Medical Records&Concr	5796-TBH	90000									.G320-0824	5796-BCE,BCF and BBF	25H
Patient	Patient Care System - Patient Accounting	5668-913	165000	7500								.GH20-6351	5796-BBF+BCE+BCF	15E
Patient	Patient Care System - Patient Accounting	5668-913	165000	7500								.GH20-6351	5796-BBF+BCE+BCF	15E
Patient	Patient Care System Patient Management 1.1	5796-BBF		5135	1050							.G320-6425	MVS,VSE+5796-BCE,BCF	15E
Patient	Patient Care System Patient Management 1.1	5796-BBF		5135	1050							.G320-6425	MVS,VSE+5796-BCE,BCF	15E
+Patient	Patient Care System - Online Text	5796-PZR	9000									.G320-0820	MVS,VSE+PCS	25H
-Patient Data	Online Appointment System	5796-NZP		258								12.GB30-1440	System/34	15H
Pattern letters	DPX Integrated Procesng of Data & Text	5785-DEL	4400									.G320-0356	8100	15X
Pay	Distributors Mgt Acctg - Accts Pay	5727-D48	2805			163	2105					.GH30-0696	.CA55	15B
Payable	Accounts Payable Distribution	5714-D48	2675			93	2010	70				.GH30-0710	System/38	11D

Keyword	Program Title	Number	OTC	ILC	MLC	DSO	DSI	DSH	HLP	MML	Mo	MoreInfo	Environment	TPLS
Payable	Accounts Payable	5714-M43	2675		95	2010		71				.GH30-0710.	System/38	11D
+Payable	Accounts Payable	5714-M73	3220		160	2834						.GH30-9036.	System/38	15E
Payable	Accounts Payable - Upgrade from MAPICS	5714-M73/01	3510			1153						.4607.9605		15E
Payable	Accounts Payable Mgmt Info Multi Ind	5715-XX3	1225									.GB30-2744.	Sys/23	11X
Payable	Accounts Payable - Disk	5715-XX3	1790									.G280-0231.	Sys/23	11X
Payable	Accounts Payable Distributors	5726-D68	1260		59							.GH30-0219.	System/34	11C
Payable	Accounts Payable - Mfg	5726-M33	1260		59							.GH30-0220.	System/34	11C
Payable	Accounts Payable	5726-M43	2675		108	2010		79				.GH30-0221.	System/34	11X
Payable	Accounts Payable - Construction SPM	5726-M62	1625		78							.GH50-0707.	System/34	11C
Payable	Accounts Payable	5726-M68	3200		131	2400		98				.GH30-0707.	System/34	11D
Payable	Accounts Payable	5726-XBC	1700									.G280-0231.	System/34	11X
Payable	Accounts Payable	5727-M43	2805		163	2105						.GH30-9001.	CASS	15B
Payable	Accounts Payable	5727-M68	3355		195	2515						.GH30-9003.	CASS	15B
Payable	Accounts Payable	5727-M73	3080		154	2710						.GH30-9004.	CASS	15E
Payable	Accounts Payable	5727-XB3	1980									.GB30-2744.	System/36	15B
-Payable	Accounts Payable Online	5798-RFT	2055		187						12.	.GB30-1670.	System/34	15X
Payable	Accounts Payable	6201-869	995									.SB30-3533.	System/36	05G
+Payable	Business Adviser - Accounts Payable	6466-989	995									.6466988		105G
Payable	BPI (R) Accounts Payable	6187-163	595									.PC		05Y
Payable	BPI (R) Accounts Payable	6871-210	50									.PC		05Y
Payable	General Ledger/Accounts Payable Hospital	5726-H14	2090		108							.GH30-0407.	System/34	11D
Payable	Info Sys for Attorneys - Accts Payable	5793-AFX	3500									.GH30-6012.	5793-ABA	05H
Payable	Info Sys for Attorneys - Accts Payable	5793-AFY	2275									.GH30-6011.	5793-AEF	05H
Payable	Info Sys for Attorneys - Accts Payable	5793-AFZ	1750									.GH30-6012.	5793-ACJ	05H
Payable	Info Sys for Attorneys - Accts Payable	5793-AGA	750									.GH30-6011.	5793-AEB	05H
Payable	Rags to Riches Accounts Payable	6187-273	99									.PC		05Y
Payable	Rags to Riches Accounts Payable	6187-288	20									.PC		05Y
+Payable	Student Accounts Payable	5796-TCF	1500									.G320-9506.	System/36	15I
+Payable	SOLOMON III tm Accounts Payable	5669-090	995									.SV21-8041.	General Ledger	05Z
Payable	Timberline Accounts Payable	6871-490	990									.GB30-2037.	PC,XT,AT	05Y
+Payable	Vendor Accounts Payable	5796-TCH	1500									.G320-9506.	System/36	15I
Payment	Electronic Payment Systems	5746-F12			1515							.GH20-1939.	DOS/VS	21B
Payment	Electronic Payment Sys Suppt/Check Procg	5796-PYK	15400									.G320-0218.	VS1,MVS+3890	15H
Payment	Financial- Payment Processing A/P Rel 3	5668-970	6820		562	310						.GH20-2467.	CICS+IMS+PL/I	15B
Payment	Payment Processing A/P Release 3	5746-F55	6600		300							.GH12-5120.	CICS+DL/I+PL/I	15E
+Payment	Projected/Actual Payment Tracking	5796-TBY	1500									.G320-9506.	System/36	15I
+Payroll	Business Adviser - Payroll	6466-991	995									.6466988		105G
Payroll	Business Management Series Payroll	6410-953	775									.GH30-9013.	PC+10MB	05G
Payroll	Business Management Series Payroll Trng	6410-962	95									.Payroll		05G
Payroll	BPI (R) Payroll	6187-169	595									.PC		05Y
Payroll	BPI (R) Payroll	6187-216	50									.PC		05Y
-Payroll	Construction Information - Payroll	5796-ZAQ	1925									.GH30-1728.	Sys/23	11H
-Payroll	Construction Info System - Payroll	5796-ZBM	2420									.GH30-2082.	Datamaster+5247	13X
Payroll	Distributors Mgt Accts - Payroll	5727-D49	5795		220	2845						.GH30-0696.	CASS	15B
-Payroll	DPFX Payroll Management System	5798-DDD	3630		330						12.	.GB21-2666.	DPFX/BASE	15H
+Payroll	Payroll	5714-M72	6370		220	3846						.GH30-9036.	System/38	15E
Payroll	Payroll	5726-XBD	1700									.G280-0234.	System/34	11X
Payroll	Payroll	5727-M42	3795		220	2845						.GH30-9001.	CASS	15B
Payroll	Payroll	5727-M72	4180		209	3345						.GH30-9004.	CASS	15E
Payroll	Payroll	5727-XB5	1980									.GH30-2755.	System/36	15B

Keyword	Program Title	Number	OTC	ILC	MLC	DSO	DSI	DSH	HLP	HML	Mo	MoreInfo	Environment	TPLS
Payroll	Payroll	6201-871	995									.SB30-3549	System/36 PC	05G
Payroll	Payroll - Construction	5726-M63	2255		109							.GH30-0707	System/34	11C
Payroll	Payroll - Disk	5715-X25	1790									.G280-0254	Sys/23 Datamaster	11X
Payroll	Payroll - Mfg	5726-M32	1575		77							.GH30-0220	System/34	11C
Payroll	Payroll - Upgrade from MAPICS	5714-M72/01	1930			1698							4604.9603	15E
Payroll	Payroll and Labor Costing - Construction	5726-M69	4250	173	3190			129				.GH30-0707	System/34	11D
Payroll	Payroll by BPI (R)	6024-028	425									.G520-3917	PC	05Z
Payroll	Payroll And Labor Costing	5727-M69	4455		257	3340						.GH30-9003	CAS5	15B
Payroll	Payroll Distribution	5714-D49	3410		119	2560			89			.GH30-0710	System/38	11D
Payroll	Payroll Distributors	5726-D6C	1575		77							.GH30-0219	System/34	11C
Payroll	Payroll Distributors Mfg MAPICS	5726-M42	3620		146	2715		109				.GH30-0221	System/34	11X
Payroll	Payroll Hospital	5726-H13	2640		137							.GH30-0406	System/34	11D
Payroll	Payroll Manufacturing	5714-M42	3410		123	2560		92				.GH30-0710	System/38	11D
Payroll	Payroll Mgmt Info Multi Ind	5715-XX5	1225									.GB30-2755	Sys/23 Datamaster	11X
Payroll	Payroll 401K Tax-Deferred Savings Plan	5798-RWK	300									.GB30-2493	S/36 DMAS Payroll	15H
Payroll	Public Sector Payroll & Personnel Acctg	5710-GA5	4400										System/36	15I
Payroll	Schools Payroll System	5796-ZNB	8000									.GB30-6002	Financial Acctg Sys	15H
+Payroll	SOLOMON III tm Payroll	5669-091	995									SV21-8041	General Ledger	05Z
Payroll	Timberline Payroll	6871-508	990									.GB20-2037	PC,XT,AT	05Y
PBA	Public Budgeting & Accounting Appl Govt	5726-G21	12230		468	9175		350				.GH30-0229	System/36	11X
PBM	4730 Customization Image Builder Rel 2	5668-870	6000			535	5400					GC31-0029	SSX,VSE,V51,MVS,XA	11E
PBM	4730 Network Monitor	5668-871	20000			1710	18000			43	69	GC31-0033	CICS/VSE,V5,IMS/V5	15K
PBX	EDX Telephone Message Management System	5799-TFY	19971									GH36-0250	Series/1	15H
PC Bond	VM Bond Release 1	6317-007	125									GH24-5089	PC, XT,XT/370+PCBond	05G
PC Storyboard	Storyboard	6316-998	275									.G580-2001	PC,Pcjr,PPG,AT,XT370	05H
PC+Asynch card	737x Industry Std Plotting Commands	5796-BDZ	395									GC23-0120	MVS,VM,RS232+FORTRAN	15X
PC+RS232C	GDDM Graphics Data File - Color Support	5668-860	1100									GA23-0186	MVS,VM/7371/2/3/5	15E
+PC/CLASS	PC/Classroom LAN Administration Syst 1.0	6024-159	995										Advanced NetWare 2.0	01Z
+PC/Classroom	PC/Classroom LAN Administration Syst 1.0	6024-159	995										Advanced NetWare 2.0	01Z
+PC/HOST	PC/HOST File Transfer and 3270 Emulation	6476-052	200									.G520-6037	MVS,VM,CICS	05Z
PC/IS	Instructional System - Presentation	6428-071	89									.G320-0441	PC	05X
PC/IS	Instructional System - Authoring	6428-072	575									.G320-0441	PC	05X
PC/IS	Instructional System - Administration	6428-087	439									.G320-0441	PC	05X
PC/IS	Interactive Instructional Authoring	5668-011	16170		529							.GH20-0008	VM,IMS,CICS+TCAMVTM	2EB
PC/IX	PC Interactive Executive	1753-369	989									GH20-6247	PC,XT,XT/370,AT+IBM	05E
PC/IX	PC Interactive Executive Upgrade to 1.1	6317-009	40									GH20-6247	PC/IX 1.0 6428163	05E
PC/Videotex	Videotex/PC (Feature 9230)	6316-967	239									.G520-3917	Pcjr	05H
PC/Videotex	Videotex/PC Ext Sup Updt B1.0 to B1.1	6265-471	30									0520-3917	PC,XT,AT+ACA+modem	05H
PC/Videotex	Videotex/PC Updt B1.0 to B1.1	6265-472	55									0520-3917	Non-subscriber	05H
PC/Videotex	Videotex/PC Version B1.1 (Feature 9229)	6310-985	275									.G520-3917	PC,XT,AT+ACA+modem	05H
PC/3600	Program Customizer / 3600 4700	5740-085				2380						GH1-1581	DOS/V511	11B
-PC/3600	PC/3600 Treat Documentor & Xref	5796-ATR				150					12.	0320-6067	DOS/V5,OS/V5,CICS/V5	15H
PC/3600	3600 4700 Program Customizer	5746-F11				1315						GH20-1587	DOS/VSE	11B
PC/370	CICS/CMS PC/370	5668-795/01	900			50								25E
PC/Crayon	PC/Crayon tm (Feature 9290)	6871-480	60									.GB30-2037	PC,XT,Pcjr	05Y
+PCemas	PCemas tm	6187-159	4995									.GB30-2037	AT	05Y
+PCemas	PCemas tm Report Generator	6187-160	695									.GB30-2037	PCemas	05Y
PCF II	TSO Programming Control Facility II	5798-CLW	1350		52							.GB21-1987	MVS	15E
PCIPS	Image Processing System	6466-996	310									.G320-0823	All ex Pcjr+color	05H
+PCIX	Upg XENIX or PCIX Devt Sys to 59X9939	59X9-934	299										SoftDev 1.0 or 1.1	05Z

Keyword	Program Title	Number	OTC	ILC	MLC	DSO	DSI	DSM	HLP	HML	Mo	MoreInfo	Environment	TPLS
+PCIX	Upg XENIX or PCIX Text 1.0 to 59X9941	59X9-935	99										Text Form 1.0 or 1.1	05Z
+PCIX/XENIX	XENIX 2.0. Upg from PCIX/XENIX 1.0, 1.1	59X9-933	299										XENIX/PCIX 1.0, 1.1	05Z
PCN	Advanced Netware tm / PCN	6404-009	1595										GB30-2057 PC,XT,AT	05Y
PCPLOT	GDDM Graphics Data File - Color Support	5668-860	1100										GA23-0186 MVS,VM4/371/2/3/5	15E
PCS	HCS PCS Patient Care System OS	5796-ANY			2900							24.G320-5756	MVS+CICS+IMSDB	25H
PCS	HCS PCS Patient Care System OS	5796-ANY	2900									24.G320-5756	MVS+CICS+IMSDB	25H
PCS	HCS PCS Patient Care System DOS	5796-ATZ			3190							24.G320-5756	VSE+CICS+DL/I	25H
PCS	HCS PCS Patient Care System DOS	5796-ATZ			3190							24.G320-5756	VSE+CICS+DL/I	25H
+PCS	Patient Care - Medical Records&Concr	5796-TBH	90000										.G320-0824 5796-BCE,BCF and BBF	25H
+PCS	Patient Care System - Online Text	5796-PCR	9000										.G320-0820 MVS,VSE+PCS	25H
PCS	PCS ADS Crossreference	5796-AYP	4950										.G320-6342 5796-BCE	15X
PCS	PCS ADS Data Dictionary Interface	5796-BTR	2475										.G320-9150 5740-XXF,5746-XXC	15X
PCS	PCS Infection Data Management	5796-BCC	7125										.G320-6627 5796-ANY,ATZ	15X
PCS	PCS Infection Data Management	5796-BCC	7125		540								.G320-6627 5796-ANY,ATZ	15X
PCS	PCS Nursing Care Plans	5796-PQC	8250		575	1500							.G320-6632 5796-ANY,ATZ	15X
PCS	PCS Nursing Care Plans	5796-PQC	8250		575	1500							.G320-6632 5796-ANY,ATZ	15X
PCS	PCS Radiology	5796-AMJ	5565		460								12.G320-6092 5796-ANY,ATZ	15H
PCS	PCS Radiology	5796-AMJ	5565		460								12.G320-6092 5796-ANY,ATZ	15H
PCS	PCS Surgery Reporting	5796-PRJ	9130										.G320-9133 5796-ANY,ATZ	15X
PCS	PCS Surgery Reporting	5796-PRJ	9130										.G320-9133 5796-ANY,ATZ	15X
PCS-ADS	PCS ADS Crossreference	5796-AYP	4950										.G320-6342 5796-BCE	15X
PCS-ADS	PCS ADS Data Dictionary Interface	5796-BTR	2475										.G320-9150 5740-XXF,5746-XXC	15X
PCS-ADS	PCS-ADS Application Execution System 2.0	5796-BCE	16500		589								.G320-6651.05,D0S+CICS+DL/I	15E
PCS-ADS	PCS-ADS Application Preparation Sys 1.1	5796-BCF	13650		487								.G320-6651.05,D0S+CICS+DL/I	15E
PCS-AES	PCS-ADS Application Execution System 2.0	5796-BCE	16500		589								.G320-6651.05,D0S+CICS+DL/I	15E
PCS-APS	PCS-ADS Application Preparation Sys 1.1	5796-BCF	13650		487								.G320-6651.05,D0S+CICS+DL/I	15E
PCS-PA	Patient Care System - Patient Accounting	5668-913	165000		7500								.GH20-6351.5796-BBF+BCE+BCF	15E
PCS-PM	Patient Care System Patient Management 1.1	5796-BBF			5135	1050							.G320-6425.MVS,VSE+5796-BCE,BCF	15E
PCMATCH	PCMATCH	6276-603	50										PC,XT,jr,AT,PPC	05R
PCWriter	PCWriter	6024-179	215										.G520-1107 PC,XT,PPC	05Z
PC50	NAG tm FORTRAN PC50 Library	6187-277	345										.GB30-2037 PC,XT,AT,RT	05Y
PDF	ISPF/Program Development Facility 2.2	5664-285	10450		3780	540	9405	2835	404	10	16		.GH34-2181.VM	15K
PDQ7	PDQ7 V2	5798-CBT			2075								12.GB21-1465 05/V5+FORTRAN	15H
+PEACS	Project Evaluation and Control System	5785-EAE	8580		373								.G320-6088 V5-APL (5748-AP1)	15H
+PECOMMON	Personal Computer Monitor	6467-045	322										.G320-0838 PC+3278,9 Emul adapt	05H
Peer	DPPX Peer Data Transfer	5798-DJM	693										.GB21-2961 DPPX	15X
Peninim Alachos	Monotype Peninim,Alachosni,Times N Roman	5771-ACJ	3000										.G520-0004 CDPF	15E
PEP	PEP Extended Features for the 3705-II	5799-BAF			339			254	26	42			.GC30-9540 V51 MVS D0S/VSE VM	25K
PER	RPS ADS Additional Languages (per each)	5719-U21/02	1060		70								4000,5000	15H
Perfect	Word Perfect tm (Spanish Version)	6205-276	495										.GB30-2037 PC,XT,AT,3270-PC	05Y
Performance	Application Program Performance Extender	5798-DNL	2750										.GB21-3123 MVS	15E
Performance	ACP TPF2 / High Performance Option	5748-T12/02			21000	7000							.GH20-6200 2112,6080	25E
-Performance	APL Performance Analysis Tools	5796-PPJ	1185		90								.G320-6643 T50,CMS,VSPC,CICS	15H
Performance	CICS Performance Analyzer II	5798-CFP	2100		83								.GB21-1862 CICS/V5	15E
Performance	CICS Performance Analysis Reporting	5798-DAB	1785		94								.GB21-2494 05/V5,D0S/VSE	15E
-Performance	CICS Performance & Capacity Planning	5798-KDF	1085										.GB21-2991 5798-CFP	15X
Performance	DPPX Performance Tool Monitor	5760-XR5	1890		69								.GH20-2155 DPPX	15B
Performance	DPPX Performance Tool Reporter Feature	5760-XR5/01	2205		80								.GH20-2155 4504,4505	15B
Performance	General Performance Analysis Reporting	5798-CPR	1710		83								.GB21-2091 05/V51, MVS, SVS	11E
Performance	Generalized Performance Analysis Report	5798-DAA	1365		66								.GB21-2491 D0S/VSE	15E

Keywords - Alphabetic Sequence

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Codes Explained in Appendix B

Keyword	Program Title	Number	OTC	ILC	MLC	DSO	DSI	DSM	MLP	MML	No	MoreInfo	Environment	TPLS
Performance	IBM Database 2 Performance Reporting Tool	5798-DPY	5500		250							.G320-9202	DB2	15H
+Performance	IBM DATABASE 2 Performance Monitor	5665-354	29000		975							.SH20-6857	DB2	15M
Performance	IMS Performance Analysis & Reporting	5798-CQP	4155		203							.GB21-2139	IMS/V5 V1,5798-CPR	11E
Performance	Network Performance Monitor Release 2	5665-333		3210	615		2410	460	57	91		.GH20-6359	VM5+VTAM	25K
Performance	Network Performance Analysis & Reports	5798-CZX	1890		77							.GB21-2487	OS/V5,5798CPR	15E
Performance	OS/V51 Performance Tool	5796-PGL	6600		398							.G320-5680	OS/V51	05C
Performance	Performance Measurement Tool	5799-BJK	1000									.GC21-7958	System/38	05E
+Performance	PC Performance Monitor	5799-PAJ	300										System/36	15A
-Performance	Supermarket Cashier Performance System	5796-BAE			180							.G320-6407	DOS/VSE	15H
Performance	VM High Performance Option Rel 4.0, 4.2	5664-173		5325	1775		39931331	136	218			.GC19-6221	VM/SP	25K
Performance	VM Performance Planning Facility	5664-179	24000		2000							.GC34-2126	VM+APL+FORTRAN+GDDM	11E
Performance	VSE Performance Tool	5796-PLQ	6300		285							.G320-6155	DOS/V5, DOS/VSE	15E
-Performance	VTAM Performance Analysis & Reporting	5798-CTM	1625		74							.GB21-2246	OS/V5, 5798-CPR	11X
Performance	VTAM Performance & Analysis Reporting II	5798-DFE	5570	504	198							.GB21-2786	Succeeded by NPM	15E
Periodicals	Periodicals Control System Rel 4	5785-DDN	15795	2500	718							.G320-6662	5787-DAA+FAJ+FAH	25H
Periodicals	Periodicals Control System Rel 4	5785-DED	15795	2500	718							.G320-6662	5787-DAB+FAK+FAL	25H
Pers	Pers DS Extended Support Annual Subscrip	6316-971/01	125								12.		See Program Descriptn.	05G
Pers	Pers DS Extended Support Annual Subscrip	6316-972/01	125								12.		See Program Descriptn.	05G
Pers	Pers DS Extended Support Annual Subscrip	6410-936/01	125								12.		See Program Descriptn	05G
Pers	Pers DS Plans+ Upgrade Kit (from Plans)	6410-939/01	150										Plans	05G
Pers Dec Series	Business Management Series General Ledgr	6410-950	775									.GH30-9013	PC+10MB	05G
Personal Comput	Virtual Machine/System Product Rel 4	5664-167			443			352	69	110		.GC20-1838	S/370,4300,303x,308x	25K
Personal Comput	Yale ASCII Communications - Host Loaded	5798-RRJ	4070									.GB30-2317	VM to EDX to 4994	15X
Personnel	Interactive Personnel System 2.2	5740-AM4	42130		1915							.GH20-5125	IMS/V5, CICS/OS/V5	25B
Personnel	Interactive Personnel System 2.2	5746-AM1	30800		1400							.GH20-2151	CICS/HOS/V5	25B
-Personnel	Personnel Report Implementation	5608-AM1	220										Dislaywriter	01C
Personnel	Public Sector Payroll & Personnel Acctg	5710-GA5	4400										System/36	15I
PERT	Harvard to Total Project Manager	6871-481	495									.GB30-2037	PC,XT,AT	05Y
PF	E/S (3) PF Release 2	5664-283	2000		107	1800			16	26		.G520-0118	E/S (3)	25K
Pharmacy	EDX Chain Pharmacy	5798-RGD	2420									.GB30-1699	Series/1	15X
Pharmacy	Pharmacy - Programmable Store System	5735-H11			48						48	.GH20-5278	DOS/V5, OS/V5	15H
-Pharmacy	Retail Pharmacy System	5798-NRN	7290		663						12.	.GB30-1226	System/34	15H
Phone	Augmented Phone Services	6280-740	149										PC,XT,AT+VoiceComOpt	05Z
Phone	Executive Phone Directory Build Your Own	6276-524	150										PC,XT,jr,AT,3270-PC	05R
Phone	Executive Phone Directory	6276-528	35										PC,XT,jr,AT,3270-PC	05R
Phone	Executive Phone Directory + Message Feat	6276-533	40										PC,XT,jr,AT,3270-PC	05R
Phone	Office Sys - Disbursements from Phone	5793-ABY	2200								.GB30-2170	5793-AAZ+ABZ		05X
Phone	Phone Directory On-Line	6276-522	25										PC,XT,jr,AT,PPC	05R
Phone	Phone Directory and Print Buffer On-Line	6276-523	35										PC,XT,jr,AT,PPC	05R
Phone_mso_mgt	Personal Manager	5798-DLP	1650									.G320-9197	CICS+COBOL	15H
Phone_mso_mgt	Personal Manager	5798-DQJ	1650									.G320-9197	CICS+COBOL	15H
+PhoneMail	PhoneMail 1.3	7798-PHM	varies									.G620-6193	CBX-II,PBX,Centrex	V05M
PhoneMail	Voice / Text Messaging System	5796-PZB	10560		480							.G320-9231	VM	15H
-Phonetic	Alpha Search Inquiry - IMS Interface	5798-AMB	8105		737						12.	.GB21-0987	OS	11H
Photosynthesis	Lights Plants & Photosynthesis (BioSer)	6024-319	62									.G320-1107	PC,PCjr,XT,AT,PPC	05Z
Photosynthesis	Lights Plants & Photosynthesis (BioSer)	6024-393	295									.G520-1107	PC,PCjr,XT,AT,PPC	05Z
-Physical	Physical Inventory Enhancement	5798-RBN	1110		101						12.	.GB30-1506	System/34	15H
Physical	Physical Inventory Enhancement	5798-RPE	1395									.GB30-2230	System/36	15X
+Physics	RS/1 tm	5669-187	5500										RT AIX	05H
+Physics routs	MATH/PROTRAN	5669-104	2100										RT AIX	05Y

Keyword	Program Title	Number	OTC	ILC	MLC	DSO	DSI	DSH	MLP	MHL	Mo	MoreInfo	Environment	7PLS
+Physics routs	SFUN/Library	5669-106	1495										RT AIX	05Y
+Physics routs	STAT/PROTRAN	5669-105	1495										RT AIX	05Y
Physiology	Leaf Structure & Physiology (Biol Series	6024-318	65									0520-1107	PC,PCjr,XT,AT,PPC	05Z
Physiology	Leaf Structure & Physiology (Biol Series	6024-388	295									0520-1107	PC,PCjr,XT,AT,PPC	05Z
Pi	Pi and Specials tm (Source or Object)	5771-ABC	480									0544-3088	PSF+3800/20/3812	21E
Pi	Typewriter and Pi Version 2	5771-ADH	1100									0520-0004	CDPF	15E
Pi	Typewriter and Pi Upgrade from Ver1 to 2	5771-ADH/01	310										4518	B1SE
+Pi	3812 Fonts - Pi and Specials	5669-163	480										3812 Font Mgt System	05H
Pi	4250 Typewriter and Pi tm	5771-AAH	800									0520-0004	CDPF (5668-997)	11E
Pi Sans Serif	Pi and Specials tm (Source or Object)	5771-ABC	480									0544-3088	PSF+3800/20/3812	21E
Pi Serif	Pi and Specials tm (Source or Object)	5771-ABC	480									0544-3088	PSF+3800/20/3812	21E
Picture	Color Graphics Editor and Picture Plot	4421-760	385									0A33-3141	3270-PC/G or GX+GCP	05H
+Picture	Picture Draw	6276-628	25										PC,XT,jr,AT+color	05R
+Picture	Picture Draw	6276-635	25										PC,XT,PCjr,AT+color	05R
Picture	PC Picture Graphics	6276-508	30										PC,XT,jr,AT,3270-PC	05R
+Picturepak	PC Picturepak tm - TypeStyles	6476-222	195									0B30-2037	Storyboard	05Y
+Picturepak	PC Picturepak tm - Eye Openers	6871-340	195									0B30-2037	Storyboard	05Y
+Picturepak	PC PicturePak tm Holidays	6187-323	195									0B30-2037	PC,XT,PCjr,AT,3270PC	05Y
+Picturepak	PC PicturePak The PC Family	6187-327	195									0B30-2037	PC,XT,PCjr,AT	05Y
PLOT	Programmed Inquiry Learning or Teaching	6316-973	219									0520-1107	PC,XT,AT,PPC,PCjr	05H
Piping	CADAM (R) 3D Piping	5796-BFN	41730	2730	910	26150	1830	610					5668-840	15E
PL/I	See yellow page 4-87.	0000-011	nc											N05C
+Placement	Graduate Placement	5796-TCC	2250									0320-9506	System/36	15I
Placement	Job Placement Match	5796-PXN	6490									0320-0329	VSE	15H
-Plan	CICS/IMS Data Collector Capacity Plan	5798-MML	1815									0B21-3057	05/VS,CICS/VS	15X
-Plan	Managing Appl Development - Plan & Track	5798-DHA	1055									0B21-2887	05/VS,VSE	15X
+Plan	MAPICS II Master Prod Sched Plan Rel 1	5714-M7J	13230			11640						0S30-3285	System/38	15E
Plan	Payroll 401K Tax-Deferred Savings Plan	5798-RNK	300									0B30-2493	S/36 DMAS Payroll	15H
Plan	Retail Inventory, Plan & Mds. Syst	5796-ZFA	300			9995 3795						24.0B30-2207	System/38	15X
Plan	401K Tax-deferred Savings Plan	5798-RWF	300									0B30-3316	S/36 MAPICS Payroll	15X
Plan	401K Tax-deferred Savings Plan	5798-RWG	300									0B30-3316	S/36 MAPICS Payroll	15X
Plan	401K Tax-deferred Savings Plan	5798-RWH	300									0B30-3316	S/36 MAPICS Payroll	15X
+Plan-A-Year	Plan-A-Year	6276-588	20										PC,XT,AT,PCjr	05R
PLANCODE	Planning Control & Decision Evaluation	5746-XXA	17310									0B19-1103	D05/VS	21B
PLANCODE/T	Planning Control & Decision Evaluation	5740-XX8	21140									0B19-1103	CICS/IMS VM TSO	25B
PLANCODE/T	Planning Control & Decision Evaluation	5746-XX9	21140									0B19-1103	CICS/D05/VS	25B
PLANCODE/S	Planning Control & Decision Evaluation	5740-XX9	17310									0B19-1103	05/VS	21B
Planner	Personal Tax Planner	6187-297	295										PC	05Y
Planner	Personal Tax Planner	6187-502	59										PC (Business Library)	05Y
Planna	Capacity Reqs Planning - Upgr from MAPICS	5714-M7G/01	2790										4634,9623	15E
Planna	Material Reqs Planning - Upgr from MAPICS	5714-M7B/01	3290						2455				4631,9621	15E
-Planning	Automated Project Planning & Evaluation	5796-AZR	968			88						12.0320-6399	MVS,D05/VS,VM/CMS	15H
-Planning	APL Econometric Planning Language	5796-PDW	2705			246						12.0320-5535	APLVS	11H
Planning	Capacity Planning and Operations	5740-M41	21070			823						0B12-5119	05/VS1,MVS	21B
Planning	Capacity Planning and Operations	5746-M41	17310			787						0B12-5119	D05/VS	21B
Planning	Capacity Planning Extended	5798-CYH	4410			189						0B21-2391	05/VS,5798-CPR	11X
Planning	Capacity Requirements Planning	5714-M4G	6560			234	4920	175				0B30-0482	System/38	11D
+Planning	Capacity Requirements Planning	5714-M7G	7480			375	6582					0B30-9037	System/38	15E
Planning	Capacity Requirements Planning	5726-M4G	5615			228	4215	171				0B30-0221	System/36	11X
Planning	Capacity Requirements Planning	5727-M4G	5885			339	4415					0B30-9002	CAS5	15B

Keywords - Alphabetic Sequence

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Codes Explained in Appendix B



Keyword	Program Title	Number	OTC	ILC	MLC	DSO	DSI	DSH	MLP	MHL	Mo	MoreInfo	Environment	TPLS
Planning	Capacity Requirements Planning	5727-M7G	7150			357	6290					.GH30-9006.CASS		15E
-Planning	CICS Performance & Capacity Planning	5798-BKF	1085									.GB21-2991.5798-CFP		15X
+Planning	COPICS Capacity Requirements Planning	5668-829	18000			900						.GH19-6413.CIGS/IMS/DL/I+COBOL		15E
Planning	COPICS Inventory Planning Forecasting II	5798-DCR	8575			259						.GB21-2650.DOS/VSE.05/VS/DL/I		15E
Planning	COPICS Material Requirements Planning II	5785-GHF	5215			158						.GB21-2646.DOS/VSE.05/VS/DL/I		15E
-Planning	Data set Migration and Planning Aid	5798-DCK	1745			159					12	.GB21-2614.05/VS.MVS/XA		15H
-Planning	Financial Planning and Modeling	5796-ZFD	2970									.GB30-2249.System/38		15X
-Planning	Financial Planning and Modeling	5796-ZGN	2530									.GB30-2251.System/36		15X
-Planning	Financial Planning and Report Generating	5796-ZHT	385									.GB30-2340.UCSD p-System tm R/D		15X
-Planning	Financial Planning System	5798-CFX	4770		434						12	.GB21-1705.MVS/CMS with API/CMS		11H
-Planning	Financial Planning System	5798-CXP	4645									.GB21-2335.MVS+VMS/4		15H
Planning	Financial Planning System II	5798-DCN	6110		263							.GB21-2622.VM		15X
Planning	Interactive Financial Planning System	7798-OPT	varies									IBM Information Net		VOSE
Planning	Master Production Schedule Planning	5668-898	31500		1380							.GH30-0737.CIGS+COBOL+IMS,DL/I		15E
+Planning	Master Production Schedule Planning	5727-M7J	11500			575	10120					.GH30-9005.System/36		15E
Planning	Material Requirements Planning	5714-M4B	6665		239	5000		178				.GH30-0709.System/38		11D
Planning	Material Requirements Planning	5714-M7B	8050		405	7084						.GH30-9037.System/38		15E
Planning	Material Requirements Planning	5726-M4B	6405		261	4800		195				.GH30-0221.System/34		11X
Planning	Material Requirements Planning	5727-M4B	6710		385	5030						.GH30-9002.CASS		15B
Planning	Material Requirements Planning	5727-M7B	7700		385	6775						.GH30-9006.CASS		15E
Planning	Operations Planning & Control	5740-XT9	38390			1745	26950		1225			.GH19-6120.05/VS		21L
Planning	Planning Aid for Retail Information/Base	5665-320			4708	1350						.GE20-0582.DFDS+DFEF+DMS+IMS+CO		15E
Planning	Planning Aid for Retail Information/Base	5666-294	22275		2775	747						.GH20-5611.DL/I.CIGS/DOS/VS,VSE		15E
Planning	Planning Assistant Solutions	6024-135	99									.G520-1107.PC,Pcjr,XT,AT,PPC		05Z
Planning	Planning Assistant	6024-148	165									.G520-1107.PC,XT,PCjr,PPC		05Z
Planning	Planning Control & Decision Evaluation	5740-XX8	21140		961							.GH19-1103.CIGS/IMS VM T50		25B
Planning	Planning Control & Decision Evaluation	5740-XX9	17310		787							.GH19-1103.05/VS		21B
Planning	Planning Control & Decision Evaluation	5746-XXA	17310		787							.GH19-1103.DOS/VS		21B
Planning	Planning Control & Decision Evaluation	5746-XX9	21140		961							.GH19-1103.CIGS/DOS/VS		25B
Planning	Project Planning and Scheduling	6276-500	150									.PC,XT,ir,AT,3270-PC		05R
Planning	Requirements Planning	5734-M51	7620		265							.GH20-4618.05/MFT/MVT/VS		11C
Planning	Requirements Planning Connection Records	5734-M51/01	1085		36							.GH20-4618.4541,4543		11C
Planning	Retail Inventory Planning & Mdse	5796-ZGT	66000									.GB30-2319.System/36		15X
Planning	RPS Expanded Estate Planning	5710-RTK/03	1210		55							.2107,2114		15X
Planning	VM Performance Planning Facility	5664-179	24000		2000							.GC34-2126.VM/APL+FORTRAN+GDDM		11E
Plans	Pers DS Plans+ Upgrade Kit (from Plans)	6410-939/01	150									.Plans		05G
Plans	Personal Decision Series - Plans Edition	6410-939	165									.Data Edition		05G
Plans	Personal Decision Series - Plans Edition	6466-986	165									.GH30-9012 3.5" drive		05G
Plans	PCS Nursing Care Plans	5796-PQC	8250	1500	575							.G320-6632.5796-AMY,ATZ		15X
Plans+	Pers DS Plans+ Upgrade Kit (from Plans)	6410-939/01	150									.Plans		05G
+Plans+	Personal Decision Series - Upg to Plans+	6410-939	170									.Plans		05Z
Plans+	Personal Decision Series - Plans+ Editn	6410-972	335									.Data Edition		05G
+Plans+	Personal Decision Series - Plans+ Editn	6466-987	335									.GH30-9012 3.5" drive		05G
Plant	COPICS Plant Monitoring - Host Interface	5798-DFR	5705		173							.GB21-2842.05/VS VSE 5798-DFT		15E
Plant	COPICS Plant Monitoring & Control - 8100	5798-DEF	21500		653							.GB21-2842.DPPX 5798-DFR		15E
Plant	DPPX Diab Plant Maint Work Order	5787-GAA/01	14850									.6001		25
Plant	DPPX Distributed Plant Maintenance	5787-GAA	17600	1560	599							.GB21-2895.8100		25X
-Plant	DPPX Plant Floor Collect & Lot Tracking	5798-DFG	3750		341						12	.GB21-2881.DPPX+3640		15H
Plant	DPPX Power Plant Maintenance	5798-DEG	2055		187						12	.GB21-2729.DMS/DPPX		15H
Plant	Plant Auto Comm Sys/Mod Transfer Facilit	5798-RWN	1900									.G320-0836.MVS+VTAM+EDX on S/1		15H

Keyword	Program Title	Number	OTC	ILC	MLC	DSO	DSI	DSM	MLP	MHL	Mo	MoreInfo	Environment	TPLS
Plant	Plant Automation Communication System	5798-DRX	8800		400							.G320-9245	EDX, Commnic Facil	15H
Plant	Plant Automation Communic - Sourcecode	5798-DRX/01	660		30								I000,3046	15H
Plant	3630 Plant Communication Host Services	5744-CR1	nc										GA24-3721 DOS/VS	NO5X
Plant	3630 Plant Communication System Host	5747-CJ1	nc										GA24-3721 DOS/VS	NO5X
Plant	3630 Plant Monitoring Enhancements	5798-DAH/01			75							24.GB21-2506	9566	15H
*Plant floor lay	Research Queueing Package	7798-RSQ	7800										VM, MVS	05E
Plants	Lights Plants & Photosynthesis (BiolSer)	6024-319	65										G520-1107 PC,PCjr,XT,AT,PPC	05Z
Plants	Lights Plants & Photosynthesis (BiolSer)	6024-393	295										G520-1107 PC,PCjr,XT,AT,PPC	05Z
Plants:	Plants: Growth & Specialization	6024-321	65										G520-1107 PC,PCjr,XT,AT,PPC	05Z
Plants:	Plants: Growth & Specialization	6024-392	295										G520-1107 PC,PCjr,XT,AT,PPC	05Z
+Platform	4700 Resource Manager - Platform Applic	5668-752	100										4700 CRM Ver 2	15M
PLC	Information/Library	5665-277		536	205			401	154	15	24	.GH12-5136	MVS,XA+NCCF	15K
PLC-2	Allen-B PLC-2 Ladder Up/Downline Loading	5793-ACX/01	350										Industrial PC	05Y
PLC-2	Allen-Bradley PLC-2 Ladder Logic Documen	5793-ACX	2500										Industrial PC	05Y
PLC-2	Allen-Bradley PLC-2 Wiring Diag Generatr	5793-ACX/02	500										Industrial PC	05Y
PLC-2	Allen-Bradley PLC-2 Draftac	5793-ACX/03	950										Industrial PC	05Y
PLC-2	Allen-Bradley PLC-2 Offline Programming	5793-AHH	1250										Industrial PC	05Y
PLC-2	THE FIX Device Driver for PLC-2 tm	5793-AGQ/07	795										GB30-2027 5793-AGW	05Y
PLC-2/20 tm	EDX to Allen-Bradley (R) Controllers	5719-THC	5000										GC34-0099 5719-CF1	15H
PLC-3	Allen-Bradley PLC-3 Ladder Logic Documen	5793-AGC	2500										Industrial PC	05Y
PLC-3	Allen-Bradley PLC-3 Wiring Diag Generatr	5793-AGC/01	500										Industrial PC	05Y
PLC-3	Allen-Bradley PLC-3 Draftac	5793-AGC/02	950										Industrial PC	05Y
Plot	Bumble Plot tm (Feature 6096)	6024-096	45										G520-3917 PC,PCjr,XT	05Z
Plot	Color Graphics Editor and Picture Plot	4421-760	385										GA33-3141 3270-PC/G or GX+GCP	05H
Plotter	ENERGRAPHICS tm Plotter	6187-236	100										GB30-2037 ENERGRAPHICS+Plotter	05Y
-Plotter	XY/750 Plotter Support for GDDM	5798-DMK	1540										GB21-3054 T50,DMK	15X
-Plotter	3277 Graphics Attachment Plotter Tablet	5798-DCE	561		51							12.GB21-2598	T50,VM 85799-AXX/-W	15H
+Plotting	Plotting System	5669-063	600										SV21-8059 RT AIX tm	05H
Plotting	Plotting System	6024-204	245										G520-1107 PC,PPC,XT,AT+DOS2.1+	05Z
-Plotting	3800 Plotting Facility	5785-AAA	2900		220								GB21-2156 OS/VS	15H
Plotting	737x Industry Std Plotting Commands	5796-BDZ	395										GC23-0120 MVS,VM,RS232+FORTRAN	15X
Plumbing	Plumbing Contractor Module	5710-RTM	3300										.GB30-2450 5710-RTR	15H
Plus	dBASE III Plus tm	6187-184	695										.GB30-2037 PC,XT,3270-PC,AT,RT	05Y
Plus	CMS Sort Plus Extensions XT/370	5798-BDW/02	132										3037	05C
Plus	FORTRAN H Extended Plus	5799-AAW		1485				1110	5	8			MVS	15X
+Plus	Lines Plus	6276-636	20										PC,XT,PCjr,AT,3270PC	05R
Plus	Project Scheduler 5000 Plus Graphics tm	6085-992	395										.GB30-2037 PC,XT	05Y
Plus	SuperProject Plus tm	6871-439	495										.GB20-2037 PC,XT,AT	05Y
Plus	WordStar 2000 Plus (R)	6187-313	595										.GB30-2037 PC,XT,AT	05Y
PMF	Print Management Facility Release 1.1	5665-S07		882	294						132	211	G544-3088 MVS+VS/APL+GDDM	21K
PMS IV	Cost Processor Feature	5734-XP4/01	1935		88								.GH20-0855 6016,6017,6200	01B
PMS IV	Enhanced Network Processor Feature	5734-XP4/03	3650		166								.GH20-0855 6086,6089,6204	01B
PMS IV	Project Management System IV	5734-XP4	1955		89								.GH20-0855 OS/VS	11B
PMS IV	Resource Allocation Processor Feature	5734-XP4/02	7875		358								.GH20-0855 6020,6202	01B
Post	Electric Post	6024-172	75										G520-1107 PC,PPC,PCjr,AT,XT	05Z
Point	EDX Point of Sale - Hospitality	5710-D02	19900										.GB30-2499 Series/1	25H
Point of sale	3680 Restaurant System	5668-914	1100										.GH20-6210 VSE,OS/VS+PSS	15A
Point-of-Sale	Point-of-Sale Data Collection & Distrib	5798-NVA	3110		283							12.GB30-1397	Series/1	15H
Point-of-Sale	3650 Point-of-Sale Retail Environment	5748-D14	5695		149							48.GC30-3056	DOS/VS,OS/VS	15A
Point-of-Sale	3650 Point-of-Sale Report Customizer	5748-D15	603		16							48.GC30-3056	SPPS II & PSS Host	15A

Keyword	Program Title	Number	OTC	ILC	MLC	DSO	DSI	DSH	MHP	MHL	Mo	MoreInfo	Environment	TPLS
Pointer	IMS/DBT DEDB Pointer Checker	5668-856/05	2845										4742	25E
+Pollination	Pollination & Fert: Seeds,Fruits,Embryos	6024-415	65										G520-1107 PC,XT,AT,PCjr+color	05Z
+Pollination	Pollination & Fert: Seeds,Fruits,Embryos	6024-445	295										G520-1107 PC,XT,AT,PCjr+color	05Z
Portfolio	Portfolio Management System	6276-538	100										PC,XT,jr,AT,3270-PC	05R
-POS Terminals	Point-of-Sale Data Collection & Distrib	5798-NVA	3110									12	GB30-1397 Series/1	15H
Postings	General Ledger & Postings Release 3	5746-F52	19750										.GH12-5120 CICS+DL/I+PL/I	15E
Power	DPPX Power Plant Maintenance	5798-DED	2055									12	GB21-2729 DMS/DPPX	15H
Power	Energy Facility Control Power Mgmt	5719-U11	6515										48.GC34-0063 Series/1	15C
Power	Energy Facility Control Power Mgmt	5719-U12	9900										48.GH30-0094 Series/1	15C
Power	Energy Facility Control Power Mgmt	5719-U13	12980										48.GH30-0500 Series/1	15C
Power	Energy Facility Control Power Mgmt	5719-U14	4840										48.GH30-0094 Series/1	15C
Power	Energy Facility Control Power Mgmt	5719-U15	6050										48.GH30-0500 Series/1	15C
POWER	SSX/VSE POWER Version 2	5799-BNF/01	1305										4852,4853,4854,4855	25K
Power	Turtle Power (Feature 4109)	6024-109	55										G520-3917 PC,PCjr,XT	05Z
Power	Turtle Power Activity Book	6024-079	15										G520-1107 Turtle Power PC,AT	05Z
Power	Turtle Power Thinker's Guide	6024-167	11										G520-1107 Turtle Power	05Z
POWER	VSE/POWER Shared Spooling - Version 2	5666-273/01	11										GH12-5131 6016,6017,6500	15K
POWER	VSE/POWER Shared Spooling Version 1	5746-XE3/02	1200										GH12-5131 4565,4563,6503,6535	15K
POWER	VSE/POWER Version 1	5746-XE3	1800										GH12-5131 DDOS/VSE	15K
POWER	VSE/SP POWER	5666-316/02	3875										155 3483 160	15
POWER	VSE/SP POWER Feature	5799-BNB/02	3370										4514,4954,4955,4925	15K
POWER	VSE/SP POWER Feature	5799-BNC/02	3875										4936,4978,4979,4572	15K
POWER	VSE/SP POWER Shared Spool Feature	5666-296/01	1200										41 1080 37 9 14	4923,6507
POWER	VSE/SP POWER Shared Spool Feature	5666-297/01	1200										41 1080 37 9 14	4924,4588,6508,6509
POWER	VSE/SP POWER Shared Spool Feature	5799-BNB/03	1200										41 1080 37 9 14	4923,4956,4957
POWER	VSE/SP POWER Shared Spool Feature	5799-BNC/03	1200										41 1080 37 9 14	4924,4980,4981,4588
POWER/RJE	VSE/POWER Remote Job Entry Version 2	5746-XE3/01	3100										GH12-5131 4564,4562,6502,6534	15K
POWER/VSE	POWER/VSE Version 2	5666-273	1200										G520-4000 VM+3800/3820	25M
+PPFA	Page Printer Formatting Aid/VM	5664-199	2730										GC33-6168 VSE/AF Version 2	15K
PPS	RPS Program Preparation Subsystem Ver 6	5719-AS6	5265										G520-4000 VM+3800/3820	25M
Practice	Attorney Practice - Statutory Dates	5793-ABF	3850										GC34-0461 Series/1	15X
Practice	Attorney Practice - Research & Retrieval	5793-ABG	6270										.GB30-2160 5793-ABL+ABZ	05X
Practice	Attorney Practice - Conflict of Interest	5793-ABH	3850										.GB30-2160 5793-ABL+ABZ	05X
+Practice:	Math Practice: Grades 1-2	6024-353	95										G520-1107 PC,XT,AT,PCjr+color	05Z
+Practice:	Math Practice: Grades 3-4	6024-354	95										G520-1107 PC,XT,AT,PCjr+color	05Z
+Practice:	Math Practice: Grades 3-4	6024-371	429										G520-1107 PC,XT,AT,PCjr+color	05Z
+Practice:	Math Practice: Grades 1-2	6024-372	429										G520-1107 PC,XT,AT,PCjr+color	05Z
+Practice:	Math Practice: Grades 5-6	6024-421	429										G520-1107 PC,XT,AT,PCjr+color	05Z
+Practice:	Math Practice: Grades 7-8	6024-422	429										G520-1107 PC,XT,AT,PCjr+color	05Z
+Practice:	Math Practice: Grades 5-6	6024-431	95										G520-1107 PC,XT,AT,PCjr+color	05Z
+Practice:	Math Practice: Grades 7-8	6024-432	95										G520-1107 PC,XT,AT,PCjr+color	05Z
+Pre-school	Math Concepts Series: Pre-school	6024-356	150										G520-1107 PC,XT,PCjr,AT 128k	05Z
+Pre-school	Math Concepts Series: Pre-school	6024-370	675										G520-1107 PC,XT,PCjr,AT 128k	05Z
Praconfig	System Support Program Subset Praconfig	5726-SS2	900										GC21-9032 System/34	15A
Predictor	VM Predictor Data Reduction Package	5799-HNR	nc										VM	NO5E
Pregen	EDX Energy Mgt - Pregen System	5796-RJT/04	65										2031	15H
Pregen	EDX Energy Mgt - Pregen System	5796-RJT/05	231										2032	15H
Preinstalled	XENIX tm (Preinstalled on 1-side hardisk	6331-443	995										GC22-9248 System 9000	05E
Preinstalled	XENIX tm (Preinstalled on 2-side hardisk	6419-595	995										GC22-9248 System 9000	05E
+Prep	Auto Dealer, Cont Prep, Upg from 5796ZHD	5796-ZPD/01	50										.GB30-6013 System/36	15H

Keyword	Program Title	Number	OTC	ILC	MLC	DSO	DSI	DSM	MLP	MNL	Mo	MoreInfo	Environment	TPLS
Prep	DPCX/DOSF Host Prep	5735-XR3												
Prep	EDX Prog Prep Upgrade from Version 4 to5	5719-XX6/01	275					187	81	130			GC27-0572 VTAM/E,TCAM	15K
Prep	RPS Version 6 - Host Program Prep	5799-BHA	8000										9783	15L
Prep	3650 Subsystem Program Prep Support II	5735-D16		1605	577			1200	433	28	45		GA34-0555 MVS	15K
+Preparation	Auto Downlog - Contract Preparation	5796-ZPD	3550										GB30-6013 System/36	15H
Preparation	Base Program Preparation Facility	5719-PAL	2375										24 GC34-0091 Series/1	15C
Preparation	Computer Preparation for the SAT tm	6187-307	79										.GB30-2037 PC,XT,PCjr	05Y
Preparation	EDX Program Preparation Facility Ver. 4	5719-XX5	2925										Series/1	15X
Preparation	EDX Program Preparation Facility V 5.2	5719-XX6	3200										GC34-0099 Series/1	15L
Preparation	Network Preparation Processor Feature	5740-XP1/03	1980		90								.GH19-1055 6009,6225	11B
Preparation	Network Preparation Processor Feature	5746-XP1/03	1980		90								.GH19-1055 6014,6158	11B
Preparation	PCS-ADS Application Preparation Sys 1.1	5796-BCF	13650		487								.G320-6651.0S,DD5+CI5C+DL/I	15E
Preparation	RPS Prog Comm Subsys Preparation Facil	5719-CS0	523		12								GC34-0183 Series/1	15X
Preparation	RPS Program Preparation Subsystem Ver 6	5719-AS6	5265		273								GC34-0461 Series/1	15X
Preparation	RPS Program Preparation Subsystem 7.2	5719-AS7	6600		472								GC34-0616 Series/1	15M
Preparation	Sort Preparation Facility 3694	5798-RQZ	825										.GB30-2238 System/36+5748-F53	15X
Preparation	Subsystem Program Preparation	5744-BQ2	nc										GC30-9513 05/VS	NO5S
Preparation	Subsystem Program Preparation	5747-BJ2	nc										GC30-9515 05/VS	NO5S
Preparation	Table Preparation Facility 3694	5798-RFK				100							12.GB30-1645 System/34+5748-F53	15X
Preparation	Table Preparation Facility 3694	5798-RQX	1650										.GB30-2238 S/36+5748F53+5798RF1	15X
Preparation	3590 Statement Preparation Sort	5796-ALP	3630		350								12.G320-5715 05/VS1	15H
Preparing	Preparing for Geometry and Algebra	6024-307	55										0520-1107 PC,PCjr,XT,AT,PPC	05Z
-Preprocessor	Data Dictionary Language Preprocessor	5798-DEQ	660		60								12.GB21-2758 05/VS	15M
-Preprocessor	Data Dictionary Language Preprocessor	5798-DHQ	808										.GB21-2902 DOS/VSE,DL/I	15X
-Preprocessor	PL/I Language Construction Preprocessor	5796-PLL	1690		154								12.G320-6096 05/VS, VM/CMS	15H
-Preprocessor	RPG II Conversion Preprocessor	5735-CV1	660										GH20-4532 S/3 to DOS/VS	01C
-Preprocessor	3270 Screen Image Preprocessor	5796-AFC			123								12.G320-8099 05, 05/VS	15H
-Preprocessor	6670 Preprocessor	5798-DKB	3045										.GB21-2974 MVS,VM	15E
Presentation	Automated Information Management	5798-DRA	1265										.G320-9215 System/36	15H
Presentation	Automated Information Management	6410-974	429										.G320-9216 PC,XT,PPC+colorDOS2+	05H
-Presentation	Color Text Presentation Facility	5798-DMZ	1210										.GB21-3086 3279+GDDM+5748-AP1	15X
Presentation	DPX Distributed Presentation Serv Ver 2	5660-264		180				135	18	29			DPFX	15K
Presentation	DPX Distributed Presentation Serv Ver 1	5760-XR1	1500		56	1275		47	11	17			GC33-0090 DPFX	15K
Presentation	DPX 3640 Presentation Services Exec	5660-267	2125		82	1665		70	19	30			GC31-0010 DPFX/BASE	15K
Presentation	ENERGRAPHICS tm	6187-234	350										.GB30-2037 PC,XT,3270-PC+color	05Y
Presentation	GDDM Presentation Graphics Feature	5748-XXH/01		767	162			575	121	36	58		GC33-0100 6049,2102,6500,2302	15X
Presentation	Instructional System - Presentation	6428-071	89										.G320-0441 PC	05K
Presentation	Interactive Instructional Presentation	5668-012	9450		309								MVS,VSE,VM	2EB
Presentation	Multimedia Presentation Aid	6276-611	25										PC,XT, Jr, AT, 3270-PC	05R
Presentation	Online Presentation Utility	5798-PRB	1090										.G320-0252 System/38	15H
-Presentation	Presentation Enhancements Using the 3800	5798-DJY	1995		375	120							.GB21-2965 MVS	15X
-Presentation	Presentation Graphics, Three-Dimensional	5798-DQP	1910										.GB21-2867 VM/CMS,MVS,GDDM	15H
Presentation	Presentation Graphics - Interactive	5798-DJT		1065	408								24.GB21-2958 VM + 3277GA	15X
Presentation	Storyboard	6316-998	275										.G580-2001 PC,PCjr,PC,AT,XT370	05G
-Presentation	3270 Executive Presentation System	5798-DEB	4550		345								.GB21-2725 VM,TSO + GDDM	15H
Presentation	3640 Presentation Services - Transaction	5798-DMD	1455										.GB21-3042 5660-267	15X
-Presentation	6670 Presentation Enhancements	5798-DNQ	880										.G320-9159 MVS, VM+5798-DKB	15X
PresentationAid	Sign Master tm (Feature 9242) Ver 5.05	6187-183	245										.GB30-2037 PC,XT,3270-PC,AT	05Y
Presenter	Private Tutor Presenter 1.1	6276-602	20										PC,XT, Jr, AT, 3270-PC	05R
Preventive	MEDIA-FLEX tm Preventive Maintenance	5793-AGB	3995										GB30-2037 5531,7531,7532	05Y

Keywords - Alphabetic Sequence

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Codes Explained in Appendix B

Keyword	Program Title	Number	OTC	ILC	MLC	DSO	DSI	DSH	MLP	MHL	Mo	MoreInfo	Environment	TPLS	
+Primary	EDX Primary SNA 1.0	5719-XT4	2995		214								Series/1	15M	
Primary	Primary Editor	6024-294	60									G520-1107	PC,PCjr,XT,AT,PPC	05Z	
+Primary	Primary Systems Network Architecture	5732-028	4500									GX34-1000	5732-027	15M	
Primer	BASIC Primer	6024-053	65									G520-3917	PC	05Z	
Primer	BASIC Primer Version 2	6024-129	65									G520-1107	PC,XT,PCjr	05Z	
-Principles	Accounting Principles Course	5796-PQY		990	379							12.G320-6671	11S	1EX	
-Print	3800 90 Degree Print Program	5796-AMX	3145		286							12.G320-6067	D0S/VSE	15H	
-Print	Bar Code Print for MAPICS	5798-RHN	825		165							06.GB50-1706	System/34	15X	
-Print	Boldface Print Program for the 3800	5798-CKR	1745		159							12.GB21-1942	05/V52	15H	
-Print	Chained GCH Print Subroutine	5796-ARH	585									.G320-5828	D0S/V5	15H	
-Print	CPS Format / Print	5799-TBA	72		3							24.GC34-1564	Series/1	15C	
-Print	DPX File Print Utility	5798-DGG	297		27							12.GB21-2840	DPX	15H	
-Print	Host Print Facility	5740-XY9/03	3870		176							.GH12-5124	6113,6234	25B	
-Print	JES/328x Print Facility	5785-BAB	2750									.GB21-3059	Replaced by 5785-BAC	15X	
+Print	JES/328x Print Facility Version 2	5785-BAC	5500	250								G320-9500	MVS	15H	
-Print	Personal Print Control	6276-573	30										PC,XT,jr,AT,3270-PC	05R	
-Print	Phone Directory and Print Buffer On-Line	6276-523	35										PC,XT,jr,AT,PPC	05R	
-Print	Print Buffer On-Line	6276-521	20										PC,XT,jr,AT,3270-PC	05R	
-Print	Print Image Library Documentation Aid	5798-DNE	660									.GB21-3097	05/V5	15X	
-Print	Print Load Analyzer	5798-CXY	1085		99							12.GB21-2355	05/V5	11H	
+Print	Print Management Facility/VM	5664-310	8450		325							0520-5102	GDDM+V5APL/APL2	25M	
-Print	Print Management Facility Release 1.1	5665-307		882	294							G544-3088	MVS+V5/APL+GDDM	21K	
-Print	Print Screen Utility	6024-186	35									G520-3917	PC,XT+D0S2	05Z	
+Print	Print Services Facility/VM	5664-198	9230		355	5923		267				G544-3415	VM/3800,3820	23M	
+Print	Print Services Fac - 3820 Comm Attach	5664-198/01	4000		200	3000		150				G544-3415	4789,4790,6386,6597	23M	
+Print	Print Services Fac - 3800 Chan Attach	5664-198/02	13375		510	10031		383				G544-3415	4788,4787,6549,6560	23M	
+Print	Print Services Access Facility/VM	5664-312	3770		145							G544-3415	VM/3800/3820	23M	
-Print	Print Services Facility 3800 III Rel 1.1	5665-275			4260	200		3195	150	176	282		G544-3088	MVS	25K
-Print	Print Services Access Facility Release 1	5665-340			700	120				60	96		G544-3099	MVS,XA+ISPF+3800/20	21K
-Print	Print Services Facility Release 1.1	5666-319			2000	100		1500	75	120	192		G544-3088	VSE	25K
-Print	Print Spool	5715-SP1	175										GC34-0500	Sys/23 Datamaster	11X
-Print	Print Spooling System for CICS/V5	5785-DCW	3365		255							.GB21-2970	D0S/VSE,MVS,CICS/V5	15X	
-Print	PC Print	6276-613	25										PC,XT,jr,AT,PPC	05R	
-Print	Textpack 6 Multipass Equation Print	5799-MNK	nc										Displaywriter	NOSE	
-Print	TSO Data-set Print	5798-CPF	5040									.GB21-2069	Replaced by 5785-BAC	15H	
-Print	TSO Data-set Print VIAM, XA Extensions	5798-CPF/01	957		76							12.GB21-2069	4607,4598	15H	
-Print	3 of 9 Bar Code Print 3800-3	5798-DRN	3000									.G320-9243	MVS,XA	25H	
-Print	3800 3-of-9 Bar Code Print	5798-DMH	3300									.GB21-3048	05/V5	15X	
-Print	3800 90 Degree Print Program	5796-ARE	3430		260							.G320-5825	05/V5	15H	
-Print	3800 90 Degree Print Extensions	5796-BAC	858									.G320-6418	5796-ARE,-AMX	15H	
Print Share	fea5218 Printer Driver	6293-576	175									G570-2063	PC,XT,3270-PC,PPC	05Z	
PrintDW	PrintDW	6276-604	20										PC,XT,jr,AT,PPC	05R	
Printer	Advanced Printer Functions 5224	5714-UT2	1200									GC21-7971	System/38+5224/5225	15A	
Printer	Forms / Passbook Printer - 4720 FCS	5799-BJE	1500			1056							D0S/VSE,05/V5+3600	15L	
+Printer	Page Printer Formatting Aid/VM	5664-199	2730		105							0520-4000	VM/3800/3820	23M	
+Printer	Page Printer Formatting Aid Release 1	5665-351			105							G544-3181	MVS,XA+3800-III,3820	11E	
+Printer	Page Printer Formatting Aid Release 1	5666-327		250	75					60	96		G544-3088	VSE	21K
Printer	RPS PC Connectivity - Printer Emulation	5710-RT/01	385										2110	15X	
Printer	5218 Printer Attachment Convenience Pac	6113-651	220										G570-2063	PC,XT	05Z
Printer	5218 Printer Driver	6293-576	175										G570-2063	PC,XT,3270-PC,PPC	05Z

Keyword	Program Title	Number	OTC	ILC	HLC	DSO	DSI	DSM	HLP	MHL	Mo	MoreInfo	Environment	TPLS
Printer	5218 Printer Sharing (Feature 4471)	6113-650	625										G570-2063 PC,XT	05Z
Printer	5224 / 5225 Advanced Printer Function	5727-AP1	700			615							GC21-7981 System/36	15X
Printer	5224 / 5225 Advanced Printer Function	5799-BFN	525										GC21-7922 System/34	15E
Printer	5224/5225 Advanced Printer Function	5727-AP6	280			210							G580-0570 System/36 PC	05H
Printing	Composed Document Printing Facility 4250	5668-997	4800		342				49	78			GC33-6133 SCRIPT and/or GDDM	15K
-Printing	Simultaneous Printing 3650 Transactions	5798-CZK	297		27						12	GB21-2469 DOS/VS		15H
Printing	3800 Printing Subsystem Support	5747-CC1	nc										GC26-3913 DOS/VSE	NOSS
Printing	6670 II Image Printing System	5785-FAZ	660									.G320-0332 Font files,edit+PL/I		15H
PrintManager	Local Area Network PrintManager	6317-042	800										G520-5102 PC Network, OMNINET	05H
Priv	Reading Comprehension Skills (Priv Tutor)	6024-325	55										G520-1107 PC,PCjr,XT,AT,PPC	05Z
Priv	Solving Math Word Problems (Priv Tutor)	6024-308	55										G520-1107 PC,PCjr,XT,AT,PPC	05Z
Priv	Vocabulary Building Skills (Priv Tutor)	6024-326	55										G520-1107 PC,PCjr,XT,AT,PPC	05Z
Priv Tutor	Preparing for Geometry and Algebra	6024-307	55										G520-1107 PC,PCjr,XT,AT,PPC	05Z
Private	Basic Number Concepts (Private Tutor)	6024-297	55										G520-1107 PC,PCjr,XT,AT,PPC	05Z
Private	BASIC - A Private Tutor	6024-081	39										G520-3917 PC	05Z
Private	Math Computation Skills (Private Tutor)	6024-305	55										G520-1107 PC,PCjr,XT,AT,PPC	05Z
Private	Private Tutor Presenter 1.1	6276-602	20										PC,XT,jr,AT,3270-PC	05R
*Private	Private Tutor Series - Spell Facts	6276-627	20										6024113 or 6276602	05R
Private	Private Tutor Version 1	6024-052	55										G520-3917 PC	05Z
Private	Private Tutor Version 2	6024-113	55										G520-1107 PC,XT,PCjr,PPC+DOS2+	05Z
Private	Word Knowledge Skills (Private Tutor)	6024-327	55										G520-1107 PC,PCjr,XT,AT,PPC	05Z
Private	Writing Private Tutor Courses for the PC	6024-078	14										G520-1107 PC,XT,AT,PCjr,PPC	05Z
Problem	DPPX Problem Determination Aid	5660-272	880		33	748		27	11	17			GC27-0648 DPPX+MPDA	15K
Problem	Interactive Problem Control	5746-SA1	880		40	660		26	6	11			.GC34-2017 DOS/VSE	15K
Problem	Interactive Problem Control System	5748-SA1	1100		55	787		36	6	10			GC34-2019 VM/CMS	15K
Problem	MVS Operator Problem Determination	5798-DEY	836										.GB21-2760 IIS,IIPS	1EH
Problem	Network Problem Determination Applicatn	5664-190		1350	225		1010	169	20	32			GC23-0108 VM	25K
Problem	Network Problem Determination Applic 3.2	5665-321		2040	340		1530	255	30	48			GC23-0108 NCCF Version 2+XA	25K
*Problem	Network Problem Determination Applic V3	5666-295		825	132		618	99	16	26			GC23-0108 NCCF Version 2+VSE	25K
Problem	Network Problem Determination Applic V3	5668-920		1650	264		1237	198	22	35			GC23-0108 NCCF Version 2+MVS	25K
Problem	Network Problem Determination Appl Ver 2	5668-983		1210	113		907	85	27	43			GC34-2061 5735-XX6	15K
Problem	Problem Statement Language and Analyzer	5796-BDX	49500										.G320-2719 VM,MVS	15H
-Problem	SMF Problem Program Activity Report	5798-CPP	968		88						12	GB21-2089 MVS		11H
Problems	Solving Math Word Problems (Priv Tutor)	6024-308	55										G520-1107 PC,PCjr,XT,AT,PPC	05Z
Proc	Check Proc Archive Retrieval & Suspend	5796-BTN	8800										G320-9153 05/VS	15H
Proc	Inven Mgt for Proc - Upgr from 5727-M45	5727-M7N/01	17500					15400					.4081,9733	15E
Procedure	Mathematics - Procedure Library	5734-XM3	2815		128								.GH20-0854 05	15C
Procedure	OCL Online Procedure & Menu Convrsn	5785-DFD	709										G320-9191 System/34/CICS/SSX	15X
Procedure	Procedure Analysis & Documentation	5785-DFC	511										G320-9191 System/34	15X
Procedure	Procedure Documentation & Mod Aid	5798-RFN	973										GB30-2211 System/36	15X
Processng	DPPX Integrated Processng of Data & Text	5785-DEL	4400										G320-0356 8100	15X
Process	Inv Mgt for Process - Upgr from 5727-M75	5727-M7N/02	15500					13640					.4082,9734	15E
Process	Inv Mgt for Process - Upgr from 5727-M75	5727-M7N/03	11300					9944					.4083,9735	15E
*Process	Inventory Management for Process	5727-M7N	20000				1000	17600					.GH30-0998 System/36	15E
Process	MVS Custom-Built Installation Process Of	5751-CS1	varies										GC23-0127 MVS	V S
Process	Process Development System	5798-DLA	2850										.GB30-2004 Series/1	15X
Process	Service of Process	5798-DTJ	616										.G320-0364 5520	15X
*Processes	Measurement Process: Distance & Area	6024-470	75										G520-1107 PC,XT,AT,PCjr+color	05Z
*Processes	Human Life Processes	6024-411	65										G520-1107 PC,PCjr,XT,AT+color	05Z
*Processes	Human Life Processes	6024-441	295										G520-1107 PC,PCjr,XT,AT+color	05Z

Keywords - Alphabetic Sequence

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Codes Explained in Appendix B

Keyword	Program Title	Number	OTC	ILC	MLC	DSO	DSI	DSM	NLP	MHL	Mo	MoreInfo	Environment	PLS
ProcessesI:	Human Life ProcessesI: Cellular Physiolo	6024-346	65										GS20-1107 PC,PCjr,XT,AT,PPC	05Z
-Processing	Applicant Processing Implementation	5608-AX2	220										Display-writer	01C
-Processing	Applicant Processing	5798-RRC	434										GS20-9160 5520 Admin. System	15X
Processing	ACP Transaction Processing Facil 2.2	5748-T12			3210012300								GH20-6200	25E
Processing	ACP Transaction Processing	5799-HQP	nc										GH20-2140 5748-T11	NO5E
Processing	Check Processing Control System	5734-F11			1375								GH20-1008 OS/MFT/MVT/V5	21B
Processing	Check Processing Executive / 3694	5748-F53	2100		66								GH20-2444 5748-F54	15B
Processing	Check Processing Executive / VS	5748-F54			346								GH20-2444 OS/V5, D05/VSE VTAM	15B
Processing	Check Processing Control - CHX Interface	5798-DKH	3190										GB21-2997 MVS	15X
Processing	Check Processing / Sort 3694	5798-RKG	440										GB30-1853 S/34 + 5748-F53	15X
Processing	Check Processing / Communications	5798-RKH	440										GB30-1851 S/34 + 5748-F53	15X
Processing	Data Processing Accounting for IMS/V5	5740-DC2	10670		485								GH19-6028 OS/V5	11C
Processing	Deposit Processing	5740-F13			2245									05C
Processing	Distributed Processing Programming Exec.	5660-281	19600		869 16660			738 312 499					GC23-0600 3100	25K
Processing	Distributed Processing Program Executive	5760-010	8400		335 7140			285 178 272					GC27-0400 8100	15K
Processing	Distributed Processing Control Executive	5761-DS1	6900		472 5865			402 111 177					GC22-9075 8100	15K
Processing	DPPX Case Processing System	5785-UAB	4250		3600								GS20-0827 DPPX Base or DPPX/SP	15H
Processing	EDX Transaction Processing System 1.2	5719-TR1	2950										SC34-0605 Series/1	15M
Processing	Financial - Payment Processing A/P Rel 3	5668-970	680		562 310								GH20-2467 CICS/IMS-PL/I	15B
Processing	High Level Image Processing System	5785-ABB	13550		615								GS20-9211 VM/PL/I+HBUS+7350	15H
Processing	Image Processing System	6466-996	310										GS20-0823 All ex PC3+color	05H
Processing	Integrated Processing of Data & Text V4	5665-347	29700		1760								GS20-0354 CICS/IMS+MVS+GDDM+PL	25E
Processing	Integrated Processing of Data & Text V4	5666-325	13200		748								GS20-0354 CICS/VSE+DCF+GDDM+PL	25E
-Processing	Integrated Processing of Data & Text V1	5785-DCT	18150		825								24,GB21-2755 OS/V5, IMS, DCF	15H
-Processing	Integrated Processing of Data & Text V1	5785-DCX	10250		466								GB21-2946 CICS/OS/V5	15E
-Processing	Integrated Processing of Data & Text V1	5785-DDD	6710		305								GB21-2946 CICS/VSE	15E
Processing	Integrated Processing of Data & Text V2	5785-DEH			2700 667								24,GS20-0354 IMS/V5	25X
Processing	Integrated Processing of Data & Text V2	5785-DEJ			2400 667								24,GS20-0354 CICS/05	25X
Processing	Integrated Processing of Data & Text V2	5785-DEK			2000 563								24,GS20-0354 CICS/VSE	25X
-Processing	MANTFONT Text Processing Type Faces	5796-PPF	1450		132								12,GS20-6634 DCF	15H
-Processing	Online Reject/Reentry Check Processing	5798-NZY	550		50								12,GB30-1445 System/34	15H
Processing	Payment Processing A/P Release 3	5746-F55	6600		300								GH12-5120 CICS+DL/I+PL/I	15E
+Processing	PARIS/Invoice Processing System	5796-TCL	40000										GS20-9487 PARIS/Base+MVS	25H
+Processing	PARIS/Invoice Processing System	5796-TCN	28000										GS20-9487 PARIS/Base+VSE	25H
Processing	RPS Transaction Processing System 1.2	5719-TR6	2950										SC34-0603 Series/1	15M
+Processing	Transaction Processing Services Rel 1	5732-006	6140										SC34-0670 System/88	15M
Processing	TS Am Scientific Word Processing System	6187-281	895										GB30-2037 PC, XT, XT/370, AT, RT	05Y
Processing	Vector Processing Subsystem / XA	5665-301	50000			37500							GC28-1204 MVS/XA/3838	15K
+Processing	Vector Processing Subsys/ Vector Facilit	5665-368	40000			30000							GC23-0625 Vector Facility	15E
Processing	Vector Processing Subsystem	5744-CK2	nc										GC24-5182 OS/V5+3838	NO55
Processing	Word / Text Processing	5715-NP1	500										GC34-0417 Sys/23 Datamaster	11E
Processing	Word Processing II	5715-NP2	850										GC34-0497 Sys/23 Datamaster	11X
Processing	3694 Check Processing Executive/General	5798-DQK	4950										GS20-0372 System/38	15H
Processing	5520 Administrative Processing Prog 3.2	5611-SS2	10500		445								GC23-0702 5520 Admin. System	15A
Processor	Assembler & Macro Processor	5726-AS1	4000		165 3000			124					GC21-7840 System/34	15X
Processor	Assembler and Macro Processor	5727-AS1	4800		273 4220								GC21-7893 System/36	15X
Processor	Assembler and Macro Processor	5727-AS6	1920		1440								0580-0570 System/36 PC	05H
Processor	BASIC Processor and Library XT/370	5668-996/01	1008		22								3003,3012	05C
Processor	Communicating Job Stream Processor	5798-RFC	715										GB30-1628 Series/1	15H
Processor	Cost Evaluation Processor Feature	5740-XPI/02	1980		90								GH19-1055 6006,6222	11B

Keyword	Program Title	Number	OTC	ILC	MLC	DSO	DSI	DSH	MHP	MML	Mo	MoreInfo	Environment	TPLS	
Processor	Cost Evaluation Processor Feature	5746-XP1/02	1980		90							.GH19-1055	6009,6153	11B	
Processor	Cost Processor Feature	5734-XP4/01	1935		88							.GH20-0855	6016,6017,6200	01B	
Processor	Data Dictionary Job Stream Processor	5798-DQN	7150		325							.G320-0335	MVS	15H	
Processor	Enhanced Network Processor Feature	5734-XP4/03	3650		166							.GH20-0855	6088,6089,6204	01B	
Processor	File Inquiry Processor	5799-TGJ	18500											05C	
-Processor	Interactive Query & Report Processor	5796-PDG	32890		1495						24	.G320-1544	05/V51,V52	15H	
Processor	INFOREM II Online Processor	5798-DET	15480		704						24	.GB21-2695	05/VS,DDS/VSE	15H	
Processor	Network Preparation Processor Feature	5740-XP1/03	1980		90							.GH19-1055	6009,6225	11B	
Processor	Network Preparation Processor Feature	5746-XP1/03	1980		90							.GH19-1055	6014,6158	11B	
Processor	Report Distribution Processor II	5798-DTX	2100									.G320-0801	MVS	25H	
Processor	Resource Allocation Processor Feature	5734-XP4/02	7875		358							.GH20-0855	6020,6202	01B	
Processor	Resource Allocation Processor Feature	5740-XP1/01	3980		181							.GH19-1055	6003,6219	11B	
Processor	Resource Allocation Processor Feature	5746-XP1/01	3980		181							.GH19-1055	6004,6148	11B	
Processor	RPS Job Stream Processor	5799-TEC	555		13							.GC34-0398	Series/1	15E	
Processor	TSO Command Processor	5798-DFY	1135									.GB21-1122	05/VS2,MVS/XA	11H	
-Processor	Word Processor File Conversion	5798-DFY	915									.GB21-2821	05/VS,DDS/VSE	05H	
+Processor	3728 Support Processor	5668-787	12000									.GA27-3644	Multiple Com Ctrls	15E	
-Processor	3800 Side-by-Side Page Processor	5798-DFM	781		71						12	.GB21-2816	05/VS	15H	
Processor	3890 Document Processor Support	5746-DC1	2180		122							.GC31-0001	DDS/VSE	15B	
ProChart	IX ProChart	5796-TBC	16000									.G320-0816	IX/370	15H	
Prod	Inv Mgmt Prod Rep & Ord Val Eval Improve	5714-D46	9975		349	7475		261				.GH30-0080	System/38	11D	
Prod	IMS Data Base Prod (Includes IRLM)	5665-332/01			2400			1800	7001120				2116,4558,9558	25K	
+Prod	MAPICS II Master Prod Sched Plan Rel 1	5714-M7J	13230			11640						.SB30-3285	System/38	15E	
PROD AID	S/3 CCP to S/38 Conversion	5714-CV7	2810									.GC21-7772	System/38	05X	
Prod data	TRY-COPICS	7798-CDP	nc										Information Network	M05C	
Production	Integrated Production Control System	5796-ZFH	19250									.GB30-2261	System/36	15X	
Production	Master Production Schedule Planning	5668-898	31500		1380							.GH30-0737	CICS+COBOL+IMS,DL/I	15E	
+Production	Master Production Schedule Planning	5727-M7J	11500		575	10120						.GH30-9005	System/36	15E	
Production	Production Control and Costing	5714-M41	6665		231	5000		178				.GH30-0709	System/38	11D	
+Production	Production Control and Costing	5714-M71	8450		425	7436						.GH30-9037	System/38	15E	
Production	Production Control and Costing	5726-M41	6405		261	4800		195				.GH30-0221	System/34	11X	
Production	Production Control and Costing	5727-M41	6710		383	5030						.GH30-9002	CASS	15B	
Production	Production Control and Costing	5727-M71	8085		407	7115						.GH30-9006	CASS	15E	
Production	Production Ctl - Upgrade from MAPICS	5714-M71/01	3690			3247							4601,9601	15E	
Production	Production Status and Costing Mfg	5726-M31	1375		77							.GH30-0220	System/34	11C	
-Production	Tape Automation - Production Environment	5798-DOB	2520									.GB21-2828	DDS/VSE	15H	
Production	Tape Automation for Production VSE	5798-DRY	2200									.G320-0835	VSE	25H	
Production	VSE/System Package - Production 1.1.0	5666-296	40610		1710	36550		1540	324	518		.GH20-5347	S/370,4300,303x,3083	15K	
Production	VSE/SP Production - Partial Function	5799-BNB	9733		318	8761		286	324	518		.GH20-5347	S/370,4300,303x,3083	15K	
-Production	ContManufacturing Order Tracking Subsystem	5798-RCT	570		114						06	.GB30-1536	System/34	15H	
Productivity	CADAM (R) Installation Productivity - 05	5798-DEX/01	3400									.GB21-2753	6018,6019	15X	
Productivity	DPX Interactive Productivity Facility	5660-271	1175		45	998		38	12	19		.GC27-0400	DPX/BASE with 6006	15K	
-Productivity	GDDM Graphics Productivity Option	5796-PRZ	1320									.G320-9142	5748-XXH	15X	
Productivity	Interactive Productivity Facility 5.3	5748-MS1						36	6	10		.GH20-5304	5664-167,5748-SA1	15K	
Productivity	Interactive System Productivity Facil2.2	5664-282			575	89		431	141	9	14	.GC34-2181	VM	15K	
Productivity	Interactive System Productivity Facility2.5	5665-319			690	218		517	163	30	48	.GC34-2136	MVS	15K	
Productivity	Interactive System Productivity Facility2	5668-960			960	96		720	70	15	24	.GC34-2078	CICS/VSE+ICCF	15K	
-Productivity	IMS Application Productivity Package	5785-CZG	3410									.GB21-3027	MVS/TSO,VM/CMS	15X	
-Productivity	Mult Index Support - Disk Files	5798-NQL				69						06	.GB30-1168	System/34	15H
Productivity	MVS Productivity System	7798-MVS	nc										Information Network	M05C	



Keyword	Program Title	Number	OTC	ILC	MLC	DSO	DSI	DSH	MLP	HML	Mo	MoreInfo	Environment	TPLS
Productivity	Network Management Productivity Facility	5798-DPC	800									.G320-9165	MVS+NCCF	15H
Productivity	Programmer & Operator Productivity	5799-BRJ	500									GC21-9074	System/36	15X
Productivity	Programmer & Operator Productivity Aid	5799-BXT	200									0580-0570	System/36 PC	05H
Productivity	Programmer Productivity - Debug	5798-RLA	495									.GB30-1903	5280 Data System	15X
Productivity	Programmer's Productivity Aid & T/E	5798-RHC	605									.GB30-1702	5280 Data System	15X
Productivity	RACF Productivity Aid	5798-CYF	2745		208							.GB21-2370	MVS,MVS/XA	15H
Productivity	System Productivity Facility	5668-009			241			180	48	77		.GC34-2039	Superseded by ISPF	15C
Productivity	Virtual Machine Productivity System	7798-VMP	nc										Information Network	N05C
Productivity	VSE/Network Management Productivity Faci	5798-DRR	1200									.G320-9239	VTAM	25H
+Products	Answer/DB (R) for PC Products	5798-DHG	35800									GH20-9244	CICS/OS or IBM/DC	15H
+Products	Answer/DB (R) for PC Products	5798-DHG/01	20000									GH20-9244	CICS/VSE	15H
+Products	APL - Based Products Interfacing Course	5798-DHN	1305									.G321-2914	IIS,IIFS	1EX
Professional	Business Professional System	5750-AAL	varies									0520-0007	VM/SP	V
Professional	FORTRAN 77 Professional ANSI CompLibr	6024-200	649									0520-1107	8087/80287+DOS 2.1+	05Z
+Professional	Professional CADAM tm	5669-193	15000										RT AIX tm+grPHIGS	05H
Professional	Professional Debug Facility	6024-143	165									0520-1107	PC,XT,PPC	05Z
Professional	Professional Editor	6024-048	139									0520-3917	PC,Pcjr	05Z
Professional	Professional Office System	5664-176	22000	5000	895	19790	3745	710				.GH20-5601	VM	25B
Professional	Professional Office System 2.1, 2.2	5664-309	22000									.GH20-6795	VM	T25E
Professional	Professional Office System PC Support	5664-309/01	6000		300	4500		225					4766,4769,6569,6572	T09M
Professional	Professional Visual Aid Composer	5798-DTB	1500									.G320-0813	GDDM+PGF	25S
Professional	WordStar Professional tm	6871-407	695									.GB30-2037	PC,XT,3270-PC,AT	05Y
Professor	Professor DOS tm	6871-423	59									.GB30-2037	PC	05Y
Professor DOS	Tutorial Set	6871-330	94									.GB30-2037	PC	05Y
Profiles	Community Mental Health MIS	5796-PXX	7700									.G320-0330	System/36	15H
-Profit	Strategic Profit Model	5798-NZR	315									.GB30-1424	System/36	15H
Profit	Strategic Profit Model II	5798-RPT	695									.GB30-2130	System/36	15X
XPROFS	Application System Release 4	5767-001	60000	50000	2000							GE45-5000	MVS,VM+GDDM	.715E
-PROFS	Displaywriter Bisynch Support to PROFS	5798-DKR	4250	472	172							.GB21-3016	VM/SP + R3CS	15X
PROFS	Professional Office System	5664-176	22000	5000	895	19790	3745	710				.GH20-5601	VM	25B
PROFS	Professional Office System 2.1, 2.2	5664-309	22000									.GH20-6795	VM	T25E
PROFS	PROFS Note Maintenance Facility	5798-DRT	1500			995	16500	745				.G320-0796	PROFS	25H
PROFS	PROFS Personal Computer Connection to VM	6410-984	219									.G320-0652	PROFS+ISPF/PC+DOS2+	05H
PROFS	The Information Facility	5798-DLK	20000	4210	1070	18000						GG26-6000	VM	25A
PROFS	The Information Facility XT/270	5798-DLK/01	2400		53								3038,3039	05C
PROFS	Voice / Text Messaging System	5796-FZB	10560		480							.G320-9231	VM	15H
PROFS/PC2	Cross System Product/Application Generat	6317-011	1319									.0520-6004	EZ-VU Runtime	05G
PROFS/PC2	PROFS Personal Computer Connection to VM	6410-984	219									.G320-0652	PROFS+ISPF/PC+DOS2+	05H
-Prog.	DL/I - CICS/VSE Test Prog. State Indust.	5796-ARN	1020		95							12.G320-6053	DOS/VS	15H
-Prog'm	Topview Prog'm Toolkit 1.1. Use from 1.0	6024-456	132										6024133	05G
+Program-to-Prog	Advanced Program-to-Program Communicatns	5732-025	8000									GX34-1000	5732-028+5732-010	15M
Programmable	COBOL 3650 Programmable Store System	5746-CB2		1070	318		302	233	11	17		GC30-3059	OS/VS	15K
Programmable	COBOL 3650 Programmable Store System	5746-CB2		855	285		359	217	11	17		GC30-3059	DOS/VS	15K
Programmable	EDX Support - Programmable Cycle	5798-RHH	792		60							12.GB30-1767	S/L,RFQ-D02288	15X
Programmable	Pharmacy - Programmable Store System	5735-H11			48							48.GB26-5278	DOS/VS,OS/VS	15H
Programmable	3650 Programmable Store System SPPS	5747-CJ2	nc									GC30-9535	DOS/VS	N05C
Programmable	3650 3680 Programmable Store System Host	5744-D16	nc									GC30-3060	Replaced by 5668-912	N05C
Programmable	3650/3680 Programmable Store System Host	5747-D16	nc									GC30-9536	Replaced by 5666-911	N05C
Programmer	Programmer & Operator Aid	5799-BHN	700									GC21-7955	System/34	15X
Programmer	Programmer & Operator Productivity	5799-BRJ	500									GC21-5074	System/36	15X

Keyword	Program Title	Number	OTC	ILC	MLC	DSO	DSI	DSM	NLP	NML	Mo	MoreInfo	Environment	TPLS
Programmer	Programmer & Operator Productivity Aid	5799-BXT	200									G580-0570	System/36 PC	05H
Programmer	Programmer Productivity - Debug	5798-RLA	495									.G830-1903	5280 Data System	15X
Programmer's	Programmer's Productivity Aid & T/E	5798-RRC	605									.G830-1702	5280 Data System	15X
+Programmer's	Topview Programmer's Toolkit 1.1	6026-654	429										Topview 1.1	05G
+Programmers	Programmers Toolkit Version 2_5_25*	5669-067	160										CSOS 2	05X
+Programmers	Programmers Toolkit Version 2 8**	5669-067/01	160										4517	05X
PROJACS	Cost Evaluation Processor Feature	5740-XP1/02	1980		90							.GH19-1055	6006,6222	11B
PROJACS	Cost Evaluation Processor Feature	5746-XP1/02	1980		90							.GH19-1055	6009,6153	11B
PROJACS	Network Preparation Processor Feature	5740-XP1/03	1980		90							.GH19-1055	6009,6225	11B
PROJACS	Network Preparation Processor Feature	5746-XP1/03	1980		90							.GH19-1055	6014,6158	11B
PROJACS	Project Analysis and Control System	5740-XP1	8070		367							.GH19-1055	OS/VS, MV5/XA	11B
PROJACS	Project Analysis and Control System	5746-XP1	8070		367							.GH19-1055	D05/VS	11B
PROJACS	Resource Allocation Processor Feature	5740-XP1/01	3980		181							.GH19-1055	6003,6219	11B
PROJACS	Resource Allocation Processor Feature	5746-XP1/01	3980		181							.GH19-1055	6004,6148	11B
-Project	Automated Project Planning & Evaluation	5796-AZR	968		88							12.G320-6399	MV5, D05/VS, VM/CMS	15H
Project	Harvard tm Total Project Manager	6871-481	495									.G830-2037	PC,XT,AT	05Y
Project	Microsoft (R) Project	6086-003	395									.G820-2037	PC,XT,PCjr,AT,3270PC	05Y
Project	Project Analysis and Control System	5740-XP1	8070		367							.GH19-1055	OS/VS, MV5/XA	11B
Project	Project Analysis and Control System	5746-XP1	8070		367							.GH19-1055	D05/VS	11B
-Project	Project Evaluation and Control System	5785-EAF	8580		373							.G320-6088	VS-APL (5748-AP1)	15H
Project	Project Management System IV	5734-XP4	1955		89							.GH20-0855	OS/VS	11B
Project	Project Planning and Scheduling	6276-500	150										PC,XT,jr,AT,3270-PC	05R
Project	Project Scheduler 5000 Plus Graphics tm	6085-992	395									.G830-2037	PC,XT	05Y
Project	Project Scheduler 5000	6871-485	285									.G830-2037	PC,XT	05Y
Project Maint	Job Analysis System	5798-RRH	3025									.G830-2309	System/36	15X
+Projected/Actual	Projected/Actual Payment Tracking	5796-TBY	1500									.G520-9506	System/36	15I
ProKey	ProKey tm	6871-526	125									.G830-2057	PC,XT,PCjr	05Y
PROLOG	VM Programming in Logic	5785-ABH	8000									.G320-9228	VM	25H
Prompter	Assembler Prompter	5734-CP2	1200		29							.GC33-4038	TSO	15C
Prompter	COBOL Prompter	5734-CP1	1200		38			28	7	11		.GC28-6454	TSO	15K
Prompter	FORTRAN Prompter	5734-CP3	123		32							.GC28-6884	5734-F02+T50	15RAN
ProNet	VM Interface Program for TCP/IP	5798-DR0	18700		850							.G320-9219	VM+EDX/RPS/DACU	15H
Proof	Word Proof	6024-071	65									.G520-3917	PC,PCjr,XT	05Z
Proof	Word Proof II	6276-564	40										PC,XT,jr,AT,PPC	05R
-Proof-of-Deposit	Proof-of-Deposit / Transit	5798-NNH	2075		189							12.G830-1141	System/34	15H
Proof-of-Deposit	419 Proof-of-Deposit MICR Capture	5798-DDC	3630		330							12.G821-2668	D05/VSE	15H
Proposals	RPS Sales Proposals and Illustrations	5710-RTK/02	2530		115								2106,2113	15X
Prospect	Personal Decision Series - Prospect Trac	6410-944	75										Data Edition	05X
Prospect	RPS Client Prospect File	5710-RTX/01	5170		235								2105,2112	15X
Protection	Cryptographic Information Protection	5796-PPK			360	132						24.G320-6644	VM/CMS	15X
Protection	Fire Protection Module	5710-RTX	1100									.G830-2450	5710-RTR	15H
+Proteins	Chemicals of Life: Proteins & Nucleic Ac	6026-609	65									.G520-1107	PC,PCjr,XT,AT+color	05Z
+Proteins	Chemicals of Life: Proteins & Nucleic Ac	6026-639	295									.G520-1107	PC,PCjr,XT,AT+color	05Z
+Protocol	Synchronous Data Link Control Protocol	5732-010	3300									.SC34-0677	System/88	15M
Prototype	Application Prototype Environment	5668-896	10000	1290	494	7500	963	369				.GH19-6391	VM,MV5/VSAPL or AP12	15E
-Prototype	Application Prototype Environment	5785-RAB	3960									.G821-3078	Replaced by 5668-896	15X
Prototype	DB Prototype II	5796-PJK	4870		238							.G320-5754	IMS/VS VIR2	15E
PS/36	Upgrade to PS/36	5727-051/01	1250			1100							Order 5727-HP3/01	15A
-PS/36	Upgrade OMS/36 to PS/36	5727-HP3/01	1250			1100							4770,9683	15A
+PSAF	Print Services Access Facility/VM	5664-312	3770		145							.G544-3415	VM+3800/3820	25M

Keywords - Alphabetic Sequence

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Codes Explained in Appendix B

Keyword	Program Title	Number	OTC	ILC	MLC	BSO	DSI	DSM	HLP	HML	Mo	MoreInfo	Environment	TPLS
PSAS	Public Sector Acctg Sys - Utility Acctg	5710-GA6	8500										System/36	15I
PSAS	Public Sector Payroll & Personnel Acctg	5710-GA5	4400										System/36	15I
PSB	IBM/DBT PSB Mapper	5668-856/03	957										4740	2SE
PSF	Graphic Data Display Manager	5748-XXH		767	159		575	120	36	58		GC33-0100	VM, CIGS, IMS, MVS	15K
PSF	Print Services Facility 3800 III Rel 1.1	5665-275		4260	200		3195	150	176	282			G544-3088 MVS	25K
PSF/MVS	PSF/MVS 3800 Channel Attach Feature	5665-275/01	13375		510	10030		385					2151,6150	25K
PSF/MVS	PSF/MVS 3820 Communication Attach Feat	5665-275/02	4000		200	3000		150					2161,6160	25K
+PSF/VM	Print Services Facility/VM	5664-198	9230		355	5923		267				G544-3415	VM+3800,3820	25M
+PSF/VM	Print Services Fac - 3820 Comm Attach	5664-198/01	4000		200	3000		150				G544-3415	4789,4790,6586,6597	25M
+PSF/VM	Print Services Fac - 3800 Chan Attach	5664-198/02	13375		510	10031		383				G544-3415	4788,4787,6549,6560	25M
PSF/VSE	Print Services Facility Release 1.1	5666-319		2000	100		1500	75	120	192			G544-3088 VSE	25K
PSF/VSE	PSF/VSE 3820 Communication Attach Feat	5666-319/01	4000		200	3000		150					2135,6037	25K
PSL/PSA	Problem Statement language and Analyzer	5796-BDX	49500									.G320-2719	VM, MVS	1SH
PSS	PSS Application Installation Facility	5658-997	nc									GC30-3060	MVS+ISPF+BTAM,VTAM	NOSC
PSS	Store System Installation Aids	5770-SA1	nc										DOS/VS, DOS/VSE	NOSB
PSS	Store System Installation Aids	5770-SA2	nc										OS/VS	NOSB
PSS	3650 Point-of-Sale Retail Environment	5748-D14	5695		149							48.GC30-3056	DOS/VS, OS/VS	15A
PSS	3650 Point-of-Sale Report Customizer	5748-D15	603		16							48.GC30-3054	SPPS II & PSS Host	15A
PSS	3650 PSS SPPS II	5744-DA1	nc									GC30-9535	OS/VS	NOSJ
PSS	3650 Store Data Management	5748-D22	1160		29							48.GH20-2150	SPPS II & PSS Host	15A
PSS	3650 Supermarket Environment	5748-D21	2770		72							48.GC30-3055	SPPS II & PSS Host	15A
PSS	3650 3680 Programmable Store System Host	5744-D16	nc									GC30-3060	Replaced by 5668-912	NOSJ
PSS	3650/3680 Programmable Store System Host	5747-D16	nc									GC30-9536	Replaced by 5668-912	NOSJ
PS3640	DPXX 3640 Interactive Transaction Gener	5660-267/01	8845		340	7510		289	52	83		GC31-0010	6002,6003,6012,6013	15K
PS3640	DPXX 3640 Presentation Services Exec	5660-267	2125		82	1665		70	19	30		GC31-0010	DPXX/BASE	15K
PT/DPPX	DPXX Performance Tool Monitor	5760-XR5	1890		69							.GH20-2155	DPXX	15B
PT/DPPX	DPXX Performance Tool Reporter Feature	5760-XR5/01	2205		80							.GH20-2155	4504,4505	15B
PTA/34	Personal Teaching Aid	5726-PT1	600									.G580-0534	System/34	15X
PTA/34	Personal Teaching Aid - Authoring	5726-PT1/01	1200									.G580-0534	6025	15X
PTF	Information/Library	5665-277	285	536	205		401	154	15	24		.GH12-5136	MVS, XA+NCCF	15K
+PTF	SSP Automatic PTF Distribution	5727-551/11	285										4973	15E
PTF	SSP Automatic PTF Distribution	5727-556/06	155										6580-0570	4798
PTF request	Information/Access Version 1	5665-950		3300	362		2475	270	28	45		.GC34-2096	V2 of INFO/SYS & MGT	15K
Public	Public Budgeting & Accounting Appl Govt	5726-G21	12230		468	9175		350				.GH30-0229	System/34	11X
Public	Public Sector Acctg Sys - Utility Acctg	5710-GA6	8500										System/36	15I
Public	Public Sector Budgeting/Accounting	5710-GA4	10890										System/36	15H
Public	Public Sector Payroll & Personnel Acctg	5710-GA5	4400										System/36	15I
Public	Public Utility Customer Service	5798-NQG	3465		315							12.GB30-1159	System/34	15H
Public works	Maintenance & Construction Costing System	5796-PXT	11000									.G320-0338	System/34,36+COBOL	15H
Publishers	Text Entry & Edit Facility	5798-RAR	3330		303							12.GB30-1470	Series/1	15X
Publishing	Composed Document Printing Facility 4250	5668-997	4800		342				49	78		GC33-6133	SCRIPT and/or GDDM	15K
Publishing	Integrated Publishing System - Host	5796-BDP		3900	1495							24.G320-9128	VM/CMS+5796-BDQ	15X
Publishing	Integrated Publishing System	5796-BDQ	1100									.G320-9128	Series/1+5796-BDP	15X
+Publishing	Workstation Publishing Software tm	5669-086	1995									SV21-8084	RT AIX	05Z
Punctuation	Punctuation Skills	6024-083	55									.G520-1107	Private Tutor 2.00	05Z
-Purchase	Lease vs Purchase Analysis	5798-AJK	407		37							12.GB21-0541	DOS/OS	11H
Purchase	Purchase Ordering & Mdse Info. System	5796-PXP	47300									.G320-9195	MVS+PARIS/Base	15H
Purchase	PARIS- Purchase Order & Merchandise	5796-PTE		3095	891							36.G320-9145	5666-294	15X
Purchasing	COPICS Purchasing	5785-GAX	12470		379							.GB21-2772	DOS/VSE, OS/VS DL/I	15E
Purchasing	Distribution Control - Purchasing	5793-AAH	7150									.GB30-2064	5793-AAF	15X

Keyword	Program Title	Number	OTC	ILC	MLC	DSO	DSI	DSH	MLP	MHL	Mo	MoreInfo	Environment	TPLS
Purchasing	Distribution Control - Purchasing	5793-ACD	7150		325							.GB30-2064	5793-ACA	15X
Purchasing	Distribution Purchasing Management System	5796-PTB		3400	977							24.G320-9143	D05/VSE	15H
Purchasing	Distributors Mgt Acctg - Purchasing	5727-D45	7810		447	5855						.GH30-0496	CASS	15B
Purchasing	DPX Materials/Purchasing and Reporting	5796-PXH	99000									.G320-0353	DPX+C080L	15H
Purchasing	Purchasing	5727-M7K	9600		480	8450						.GH30-9006	CASS	15E
Purchasing	Purchasing Distribution	5714-D45	9605		355	7205	250					.GH50-0595	System/38	11X
Purchasing	Purchasing Distributors	5726-D46	7455		303	5590	226					.GH50-0185	System/34	11D
+Purchasing	SOLOMON III tm Purchasing	5669-092	995									SV21-8041	Accounts Payable	05Z
Purchasing	AgentAHA Medical Device Database	7798-MDD	nc										Information Network	N05C
Purpose	EBX General Purpose Automation Executive	5798-RCZ	6300		287							24.GB30-1565	Series/1	15H
Purpose	General Purpose Simulation System V	5734-XS2	1515		69							.GH20-0825	05.05/V5	11C
Purpose	General Purpose Simulation System V	5736-X33	1515		69							.GH20-0826	D05, D05/V5	11C
-Purpose	General Purpose Simulation System	5796-PJG	2175		99							24.G320-5745	5748-APJ	11H
-Purpose	General Purpose Simulation System	5796-PNN	3585		163							24.G320-6398	VM/CMS, MVS+PL/I	15H
Purpose	General Purpose Interface Bus Adapter	6024-201	89									0520-1107	GPB+D052+	05Z
Puzzle	Crypto-Mania Puzzle Pac	6276-577	15										Crypto-Mania	05R
Puzzles	Gertrude's Puzzles	6024-098	49									0520-1107	PC,XT,PCjr,PPC	05Z
PWM	Pass-Through Facility	5748-RC1	3000		185	2700		139	90	144		GC24-5206	VM/SP, VM/BSEF, VM/SE	15K
PWM/3101	3101 VM Pass-Through Support	5796-PPF	170									.G320-6637	VM/SP, VM/BSEF, VM/SE	15E
PXS	EDX PXS Development Support Version 3	5796-REF			85							12.GB30-1400	Series/1	15H
-QBE	Query-By-Example	5796-PKT	12560		491							.G320-6062	VM/CMS	15X
-QBE	QBE to ADRS II Bridge Feature	5796-PLM/01	1190		67							.G320-6097	4696, 4687	11E
QMF	Decision Support / VSE 1.1	5666-311	3075		182	2770		164	19	31		GC33-6212	SSX,VSE	25K
QMF	Query Management Facility	5666-292		4280	642		3850	577	89	142		GH24-5033	SQL+5746-XX3+GDDM	25K
QMF	Query Management Facility Release 2	5668-972		6420	1070		4812	802	58	93		GC26-4071	VM, MVS+GDDM+DB2, SQL	25K
QMF/VSE	Query Management Facility	5666-292		4280	642		3850	577	89	142		GH24-5033	SQL+5746-XX3+GDDM	25K
QualityAlert	QualityAlert tm	5793-AFA	795									GB30-2037	5531, 7531, 7532	05Y
Query	Cross System Product / Query	5668-918	9656		460	8688		345	15	24		.GH24-5048	5668-944+945+VSE,SSX	15K
Query	Distributed Office Support System Ver 3	5665-290		4570	1485		34251110	223	357			GC30-3085	CICS/VS+MVS, XA	25K
Query	Distributed Office Support System Ver 3	5666-270		1710	570		1275	425	176	282		GC30-3085	CICS/VS+VSE	25K
-Query	DPCX 3790 Distributed Entry Query	5798-CZE	2505									.GB21-2431	D05/VSE 05/V5 D05F	15H
QUERY	EDX Query	5719-XR1	792		28							GC34-0457	5719-MS2	15X
Query	EDX Query	5719-XR1	792		28							GC34-0457	5719-MS2	15X
Query	Graphical Display and Query Facility 1.3	5668-905	20000	1365	455								MVS, VM+GDDM+3270	15E
Query	GIS/VS Advanced Query Feature	5740-XX7/01			419			314	28	45		GH20-9035	6012	25K
-Query	Interactive Query & Report Processor	5796-PDG	32890		1495							24.G320-1544	05/V51, V52	15H
Query	IMS/360 Interactive Query Facility Feat	5736-XG/02	4032		336							12.GH20-1074	6968	25C
Query	INTELLECT tm	5796-PWA	42000		2245							.G320-9161	VSE+5748-XXJ+PL/I	25K
Query	INTELLECT tm	5796-PMC	57000		3050							.G320-9161	MVS+PL/I	25H
Query	INTELLECT tm	5796-PWF	57000		3050							.G320-9161	VM/PL/I	25H
Query	IX INFORMIX Embedded Query for COBOL	5796-TAY	9000									.G320-0803	IX/C080L	15H
Query	IX/INFORMIX Embedded Query for C	5796-TBD	9000									.G320-0803	IX/INFORMIX	15H
Query	Professional Office System	5664-176	22000	5000	895	19790	3745	710				.GH20-5601	VM	25B
Query	Query Management Facility	5666-292		4280	642		3850	577	89	142		GH24-5033	SQL+5746-XX3+GDDM	25K
Query	Query Management Facility Release 2	5668-972		6420	1070		4812	802	58	93		GC26-4071	VM, MVS+GDDM+DB2, SQL	25K
Query	Report Management & Distribution System	5665-310		5720	858							GC30-3191	MVS+CICS/VS, IMS/VS	15E
QUERY	RPS Query	5719-XR2	792		28							GC34-0457	5719-MT1	15X
Query	RPS Query	5719-XR2	792		28							GC34-0457	5719-MT1	15X
Query	Storage & Information Retrieval System	5740-XR1	28160		1280							.GH12-5114	05/VS, CICS/VS, IMS/VS	25B
Query	Storage & Information Retrieval System	5746-XR6	22990		1045							.GH20-1832	CICS/D05/VS	25B

Keywords - Alphabetic Sequence

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Codes Explained in Appendix B

Keyword	Program Title	Number	OTC	ILC	MLC	DSO	PSI	DSH	NLP	MML	Mo	MoreInfo	Environment	TPLS
+Query	Structured Query Language/RT Data Base	5669-058	1000									SV21-8033	RT AIX+Data Mgt	05H
Query	Structured Query Language/Edit	5798-BP	2750									.G320-9184	SQL/DBS	15X
Query	Structured Query Language/Edit	5798-20Y	3850									.G320-0354	MMVSQL/DS	15H
Query	SQL / Data System - Relational Structure	5748-XXJ					464		347	144	230	GH24-5012	D05/VSE,SSX/VSE,VM	25K
Query	The Information Facility	5798-DLK	20000	4280	1070	18000						GG26-6000	VM	25A
+Query,DL/I	Query,DL/I for IMS/V5	5785-ECY	20000									.G320-0839	IMS DB/DC	15H
+Query,DL/I	Query,DL/I for CICS/MVS	5785-ECZ	20000									.G320-0839	IMS DB	15H
+Query,DL/I	Query,DL/I for CICS/VSE	5785-EDA	12500									.G320-0839	DL/I	15H
-Query-By-Exampl	Query-By-Example	5796-PKT	12560		491							.G320-6062	VM/CMS	15X
Query/36	Query/36	5727-QUJ	950		64	835						G580-0454	System/36	15A
Query/36	Query/36	5727-QU6	380			285						0580-0570	System/36 PC	05H
Queue	IMS/V5 Queue Loader	5785-GAJ	5720		260							.GB21-3125	IMS/V5-DB/DC	15H
*Queueing	Research Queueing Package	7798-RSQ	7800										VM, MVS	05E
Queueing model	Response Time Estimator (Feature 9231)	6316-968	275									.G320-0334	PC,PCjr,XT,3270-PC	05H
-Quote	Bond Quote System	5796-AXY			185							12.G320-6172	MVS/TS0	15H
Quote	Fare Quote / Ticketing	5736-T11	124850		5675							.GH20-0873	ACP	01B
Quote	Fare Quote / Ticketing Tariff Maint Feat	5736-T11/01249900		11360								.GH20-0873	6030,6051,6049	01B
R-B	R-B 4000 Extended Report Writer	6187-246	150									.GB30-2037	PC,XT,3270-PC	05Y
R-BASE	R-BASE (R) SERIES 4000	6871-479	495									.GB30-2037	PC,XT,3270-PC,AT	05Y
R-base	CLUUI	6187-249	249									.GB30-2037	PC,XT,3270-PC+R-base	05Y
R-BASE	R-BASE SERIES tm 5000	6205-281	700									.GB30-2037	PC,XT,AT,3270-PC	05Y
*R-BASE	R-BASE 5000 Multi-user	6187-161	1500									.GB30-2037	PC,XT,AT	05Y
RACF	Resource Access Control Facility 1.7	5740-XXH			841			630	43	69		GC28-0722	MVS	25K
RACF	RACF Codes Update System	5796-PLK	1085		99							12.G320-6093	MVS and RACF	15H
RACF	RACF Productivity Aid	5798-CYF	2745		208							GB21-2370	MVS,MVS/XA	15H
RACF/VM	RACF/VM	5767-002		750	250		564	188	32	51		SC34-2296	VM	25K
Radiology	PCS Radiology	5796-ANJ	5565		460							12.G320-6092	5796-ANY,ATZ	15H
Rags	Rags to Riches Ledger	6187-272	99									.	PC	05Y
Rags	Rags to Riches Accounts Payable	6187-273	99									.	PC	05Y
Rags	Rags to Riches Accounts Receivable	6187-274	99									.	PC	05Y
Rags	Rags to Riches Accounts Sales	6187-275	nc									.	PC	N05Y
Rags	Rags to Riches Ledger	6187-287	20									.	PC	05Y
Rags	Rags to Riches Accounts Payable	6187-288	20									.	PC	05Y
Rags	Rags to Riches Accounts Receivable	6187-289	20									.	PC	05Y
Rags	Rags to Riches Accounts Sales	6187-290	20									.	PC	05Y
Rags	Rags to Riches Dealer Selling Kit	6187-306	15									.	PC	05Y
-Raising	Medical Fund Raising	5796-PXD	385									.G320-0351	Reportpack	15X
Raising/Develop	Fund Raising/Development - Trade Assn	5796-ZJB	3300									.GB30-2352	5796-ZHZ	15H
Raising/Develop	Membership Fund Raising/Development	5796-ZJF	3300									.GB30-2401	5796-ZJF	15X
RAMS	RAMS II Student Service System	5796-BCR		1230	471							24.G320-6661	VSE,DL/I,5735-F91	15X
Random	CIBAM Express Versaplot Color Random	5664-284/01	6250										4532	15E
Random	HDAM Sequential Random Generator	5798-CQG	2320									.GB21-2126	DS/V52,MVS/XA	01H
-Randomizer	HDAM Randomizer Generator Extensions	5798-CXN	1160		104							12.GB21-2347	5798-CQG 05/V5	11H
Range	FORTTRAN H - Extended Exponent Range	5796-PKR/01	1890									.	6043,4	25H
RAS/36	Retail Applications System/36	5798-RAS	19900									.GB30-2497	System/36	15H
+RASPAC	UNIRAS tm RASPAC SOLIDS	5669-101	4995										RT AIX	05Y
+RASPAC	UNIRAS tm RASPAC	5669-108	3550										RT AIX	05Y
+Ratio	Ratio Reasoning: Crystals and Speed	6024-473	75										128K+color	05G
RCA	RCA (R) 301 Emulator	5799-ADR			818							GA24-3605	D05 D05/V5	05C
+Read	Get Set for Writing to Read	6024-468	295										PCjr+Speech attachmt	05Z

Keyword	Program Title	Number	OTC	ILC	MLC	DSO	DSI	DSM	MLP	HML	No	MoreInfo	Environment	PLS
Read	Get Set for Writing to Read - Book Set	6024-469	6										6024468	DSZ
Read	Writing to Read	6360-700	725									G520-1107	PCjr+Speech attachmt	OSZ
Reader	CPS 4991-201 Mag Stripe Card Reader	5799-TAJ	336			14							Series/1	OSZ
READER	SPEED READER II tm	6871-441	69									.0830-2037	PC,XT,3270-PC,PCjr	OSY
Reader	VIRTUAL Spooled Reader Display	5796-AYK	1055									G520-6338	VM/CMS	LSH
+Reading	CICS/V5 Dump Reading Program	5798-CJX	1210		110						12	GB21-1874	OS/VS	LSH
+Reading	Reading for Information: Grades 3-4	6024-358	125									G520-1107	PC,XT,AT,PCjr+color	OSZ
+Reading	Reading for Information: Grades 5-6	6024-359	150									G520-1107	PC,XT,AT,PCjr+color	OSZ
+Reading	Reading for Information: Grades 7-8	6024-360	150									G520-1107	PC,XT,AT,PCjr+color	OSZ
+Reading	Reading for Information: Grades 7-8	6024-366	750150									G520-1107	PC,XT,AT,PCjr+color	OSZ
+Reading	Reading for Information: Grades 3-4	6024-386	565									G520-1107	PC,XT,AT,PCjr+color	OSZ
+Reading	Reading for Information: Grades 5-6	6024-387	675									G520-1107	PC,XT,AT,PCjr+color	OSZ
+Reading	Reading for Meaning Series: Grade 2	6024-330	150									G520-1107	PC,XT,AT,PCjr+color	OSZ
+Reading	Reading for Meaning Series: Grades 3-4	6024-336	150									G520-1107	PC,XT,AT,PCjr+color	OSZ
+Reading	Reading for Meaning Series: Grades 5-6	6024-337	150									G520-1107	PC,XT,AT,PCjr+color	OSZ
+Reading	Reading for Meaning Series: Grades 7-8	6024-338	150									G520-1107	PC,XT,AT,PCjr+color	OSZ
+Reading	Reading for Meaning Series: Grades 7-8	6024-364	675									G520-1107	PC,XT,AT,PCjr+color	OSZ
+Reading	Reading for Meaning Series: Grades 3-4	6024-374	675									G520-1107	PC,XT,AT,PCjr+color	OSZ
+Reading	Reading for Meaning Series: Grades 5-6	6024-375	675									G520-1107	PC,XT,AT,PCjr+color	OSZ
+Reading	Reading for Meaning Series: Grade 2	6024-384	675									G520-1107	PC,XT,AT,PCjr+color	OSZ
Reading	Reading Comprehension Skills (Priv Tutor	6024-325	55									G520-1107	PC,PCjr,XT,AT,PPC	OSZ
REALCOLOR tm	Videotex/PC Ext Sup Updt B1.0 to B1.1	6265-471	30									G520-3917	PC,XT,AT+ACA+modem	OSH
REALCOLOR tm	Videotex/PC Updt B1.0 to B1.1	6265-472	55									G520-3917	Non-subscriber	OSH
REALCOLOR tm	Videotex/PC Version B1.1 (Feature 9229)	6410-985	275									G520-3917	PC,XT,AT+ACA+modem	OSH
RealEstate	RealEstate Investment Package	6276-597	20									PC,XT,jr,AT,PPC	OSR	
Realtime	FORTRAN IV Realtime Subrou Libr Ver 2	5719-F04	351							9		GC34-0140	RPS	LSZ
Realtime	Realtime Monitor	5796-PNA	1000									G320-6165	VM/CMS	LSZ
Realtime	Realtime Programming System Version 7.2	5719-PC7	7000			500						GC34-0615	Series/1	LSM
Realtime	Realtime Programming System Version 7.2	5719-PC7	2800									GC34-0616	Series/1-PC (4950)	LSM
Realtime	SPECIAL Realtime Operating System	5799-AHE	60660			5515					12	SH20-1723	V51	21B
+Realtime	VM/XA Realtime Monitor/Systems Facility	5798-DMD	7500									SH26-7000	VM/XA	LSZ
+Reasoning:	Ratio Reasoning: Crystals and Speed	6024-473	75										128k+color	OSG
Rec	BPI Self Training Series - Accounts Rec	6187-257	70										PC	OSY
+Rec	Distribution Control System - Accts Rec	5793-ADL	8500									.0830-6003	VSE+CommonFeat	LSH
+Rec	Distribution Control System - Accts Rec	5793-AFN	8500									.0830-6003	MVS+CommonFeat	LSH
Rec	Distributors Mgt Acctg - Accts Rec	5727-D42	2805			163	2105					.0830-0690	CASS	LSB
Rec	DMAS II Acct Rec Enhance - Food Distrib	5798-NXZ				138					12	.0830-1340	System/34	LSH
Rec	Info Syst for Attny - Accts Rec & Collec	5793-ADZ	200									.0830-6000	Client Finance Mgt	OSH
Rec	Info Syst for Attny - Accts Rec & Coll	5793-AEL	575									.0830-6001	Lawyer Finance Mgt	OSH
Rec	Over-the-Counter Inv & Accts Rec Inquiry	5726-DM5	2255									.0830-2501	System/34	LSZ
Receivable	Accounts Receivable Distribution	5714-D42	4355			151	3265	112				.0830-0130	System/38	11X
Receivable	Accounts Receivable	5714-M44	2675			95	2010	70				.0830-0708	System/38	11D
+Receivable	Accounts Receivable	5714-M74	3220			160	2834					.0830-9037	System/38	1SE
Receivable	Accounts Receivable Upgrade from MAPICS	5714-M74/01	1310				1153					.4610,9607		1SE
Receivable	Accounts Receivable Mgmt Info Multi Ind	5715-X24	1225									.0830-2722	Sys/23 Datamaster	11X
Receivable	Accounts Receivable - Disk	5715-X24	1790									.6280-0230	Sys/23 Datamaster	11X
Receivable	Accounts Receivable Distributors	5726-D4B	1650			86						.0830-0093	System/34	11X
Receivable	Accounts Receivable Lumber Dealers	5726-DAF	1650			86						.0830-0166	System/34	11X
Receivable	Accounts Receivable Distributors	5726-D42	2675			108	2010	79				.0830-0185	System/34	11X
Receivable	Accounts Receivable Food Distributors	5726-D66	1815			95						.0830-0156	System/34	11X

Keywords - Alphabetic Sequence

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Codes Explained in Appendix B

Keyword	Program Title	Number	OTC	ILC	MLC	DSO	DSI	DSH	MLP	MML	Mo	MoreInfo	Environment	TPLS	
Receivable	Accounts Receivable Hospital	5726-H12	1375		70							.GH30-0405	System/34	11D	
Receivable	Accounts Receivable - Mfg	5726-M34	1310		62							.GH30-0220	System/34	11C	
Receivable	Accounts Receivable	5726-M44	2675		108	2010		79				.GH30-0221	System/34	11X	
Receivable	Accounts Receivable	5726-XBA	1700									.G280-0230	System/34	11X	
Receivable	Accounts Receivable	5727-M44	2805		163	2105						.GH30-9001	CASS	15B	
Receivable	Accounts Receivable	5727-M74	3080		154	2710						.GH30-9005	CASS	15E	
Receivable	Accounts Receivable	5727-XB4	1980									.GH30-2722	System/36	15B	
Receivable	Accounts Receivable and Collection	5793-ABD	968									.GH30-2151	5793-AAZ+ABZ	05X	
Receivable	Accounts Receivable by BPI tm	6201-027	425									.0520-3917	PC	05Z	
Receivable	Accounts Receivable	6201-367	995									.SB30-3517	System/36 PC	05G	
Receivable	Accts Receivable Collections Series 800	5793-ACL	460									.GH30-2415	S/36+5793ACH+ABZ	05H	
Receivable	Business Adviser - Accounts Receivable	6466-990	995									.	6466988	10SG	
Receivable	BPI (R) Accounts Receivable	6187-164	595									.	PC	05Y	
Receivable	BPI (R) Accounts Receivable	6187-211	50									.	PC	05Y	
Receivable	Distribution Control - Accts Receivable	5793-AAG	8360									.GH30-2064	5793-AAE	15X	
Receivable	Rags to Riches Accounts Receivable	6187-274	99									.	PC	05Y	
Receivable	Rags to Riches Accounts Receivable	6187-289	20									.	PC	05Y	
Receivable	SOLMON III tm Accounts Receivable	5669-089	995									SV21-8041	General Ledger	05Z	
Receivables	BICARSA Online	5798-RFR	5445		495							12.GB30-1667	System/34	15X	
Receiving	COPICS Receiving	5785-GAZ	8690		264							.GB21-2774	D05/VSE,05/VS DL/I	15E	
Receiving	EDX Store Item Receiving System	5719-DS0	1600									.SB30-7013	COBOL+5719-TR1	25E	
Receiving	PARIS- Receiving Checking & Distribution	5796-PTD		995	287							36.G320-9146	5666-294	15X	
Receiving	Receiving, Checking & Distribution System	5796-PXQ	20350									.G320-9146	MVS+PARIS/Base	15H	
Record	Client/Matter Record Management	5793-ABL	2320									.GH30-2166	5793-ABZ	05X	
Record	CMAS File / Record Definitions	5798-RPZ	330									.GH30-2138	Retrieval/36	15X	
Record	CMAS File / Record Definitions	5798-RQP	330									.GH30-2136	Retrieval/34	15X	
Record	DFAS II File / Record Definitions	5798-RQN	330									.GH30-2140	Retrieval/34	15X	
Record	DMAS II File / Record Definitions	5798-RPV	330									.GH30-2134	Retrieval/36	15X	
Record	DMAS II File / Record Definitions	5798-RRQ	330									.GH30-2132	Retrieval/34	15X	
Record	HCS DL/I Medical Record Abstract System	5796-AYL			747							24.G320-6341	VSE+5798-CCA,CCB	15H	
Record	Medical Record Deficiency & Location Trk	5796-PXE	275									.G320-0352	Display-writer	15X	
Record	MAPICS File / Record Definitions	5798-RQB	330									.GH30-2146	Retrieval/36	15X	
Record	MAPICS File / Record Definitions	5798-RQL	330									.GH30-2144	Retrieval/34	15X	
Record	MAPICS II File / Record Definitions	5798-RMD	400									.GH30-2146	Retrieval/36	15H	
Recording	Environmental Recording Editing Printing	5654-260	nc									GC28-1378	VM,VM-HPD,VM/XA	NO5S	
Recording	Environmental Recording Editing Printing	5656-260	nc									GC28-1378	VSE	NO5S	
Recording	Environmental Recording Editing Printing	5658-260	nc									GC28-1378	VSI,MVS,XA	NO5S	
Records	Client/Matter Records Mat Series 800	5793-ACR	1100									.GH30-2415	S/36+5793ABZ	05H	
Records	College Business Sys Student Records	5796-RQF	7150									.GH30-2181	System/36	15X	
Records	Hosp Info - Medical Records Abstracting	5727-AB1/02	14300		650							.	6083,6099	15H	
Records	Interactive Student Records	5798-NWF	2075		189							12.GB30-1300	System/34	11H	
Records	Student Records School Administration	5726-E31	3095		151							.GH30-0410	System/34	11X	
Records&Concr	Patient Care - Medical Records&Concr	5796-TBH	90000									.G320-0824	5796-BCE, BCF and BBF	25H	
Recovery	CICS/VS Online Dataset Recovery Facility	5798-DHL	737									.GB21-2911	CICS/D05(non-DL/I)	15X	
Recovery	HSM Maintenance / Recovery Utilities	5796-BDY	2000									.G320-9162	MVS+5740-XRB	15H	
Recovery	Integrated Catalog Forward Recovery Util	5798-DX0	4500									.G320-9501	MVS,XA	15H	
Recovery	IMS Data Base Recovery Control Feature	5665-332/03			1100			825	65	104			5009,6509,5198	25K	
Recovery	IMS/VS Data Base Recovery Control Feat	5740-XX2/04			558			418	38	61			GH35-0010	6425,6560	15K
Recruiting	College Business Sys Student Records	5796-RQF	7150									.GH30-2181	System/36	15X	
Recruitment	Student Recruitment	5796-TCD	6000									.G320-9506	System/36	15I	

Keyword	Program Title	Number	OTC	ILC	HLC	DSO	DSI	DSM	MLP	MML	Mo	MoreInfo	Environment	TPLS
Reduction	VM Predictor Data Reduction Package	5799-MHR	nc										VM	NOSE
Ref	DOS Tech Ref (Book) Upgr from 2.1 or 3.0	6279-935	65									G520-1107	DOS 3.1	01Z
Reference	DOS Technical Reference (Book)	6024-213	109									G520-1107	DOS 3.1	01Z
Reference	DPPX CBOL Application Cross Reference	5798-DDJ	242	22								12.GB21-2672	DPPX	15Z
Reference	Voice Communications API Reference	6280-743	149										PC,XT,AT+VoiceComOut	05Z
+Reflections	Theory Reflections & Patterns	6024-471	75									G520-1107	PC,XT,AT,PCjr+color	05Z
Reformat	Conversion Reformat Utility	5714-CV2	600	20	528	18						GC21-7779	System/38	15A
Refresh	VSE/System Package 2.1.4 Refresh	5666-316	48500		2160	43650	1945	433	693			GC33-6176	4300,303x,308x,S/370	25K
Registration	Education Information - Registration	5796-PQR		840	304							24.G320-6663	5796-BAZ	15X
Registration	Hotel Reservation & Guest Accounting Sys	5710-D01	66000									GB30-2034	System/38	15H
-Registration	Online Student Registration	5798-NMP	4025		366							12.GB30-1312	System/34	15H
+Registration	Registration, Attendance & Grading	5796-TCJ	6750									.G320-9506	System/36	15H
Registration	Voter Registration / Jury Selection Syst	5796-PXM	12100									.G320-0339	System/34,36+CBOL	15I
Regression anal	STAT/PC-LIBRARY tm	6187-271	440									GB30-2037	PC,XT,AT,RT	05Y
+Regulation	Regulation & Homeostasis	6024-410	65									G520-1107	PC,PCjr,XT,AT+color	05Z
+Regulation	Regulation & Homeostasis	6024-440	295									G520-1107	PC,PCjr,XT,AT+color	05Z
-Reject/Reentry	Online Reject/Reentry Testing Aid	5798-CNE	1350		123							12.GB21-2264	05/V5	15H
-Reject/Reentry	Online Reject/Reentry Check Processing	5798-NZY	550		50							12.GB30-1445	System/34	15H
+Rel	C Compiler and Subroutine Library Rel 1	5732-023	7600										System/88	15M
Rel	Distributed Office Support System Rel 3	5668-955	4320	235	3670		200	43	68			GH12-5139	DOSF+DISOSS Ver 2/3	25K
Rel	Dortmund Leuven Library System Rel 4	5787-DAA	22330		1015							24.G320-6662	05/V5,CIC5/V5	25X
Rel	Dortmund Leuven Library System Rel 4	5787-DAB	17290		786							24.G320-6662	D05/V5E,CIC5/V5	25X
Rel	Financial- Open Item Acctg A/R A/P Rel 3	5668-969	9855		448							.GH20-2467	CIC5+IMS+PL/I	15B
Rel	Financial- Payment Processing A/P Rel 3	5668-970	6820	562	310							.GH20-2467	CIC5+IMS+PL/I	15B
Rel	Financial-Posting & General Ledger Rel 3	5668-967	22220		1010							.GH20-2467	CIC5+IMS+PL/I	15B
+Rel	MARPCS II Master Prod Sched Plan Rel 1	5714-WJ1	13230			11640						.S330-3285	System/38	15E
Rel	Open Item Accounting A/R A/P Rel 3	5746-F54	8775		399							.GH12-5120	CIC5+DL/I+PL/I	15E
Rel	Periodicals Control System Rel 4	5785-DDN	15795	2500	718							24.G320-6662	5787-DAA+FAJ+FAH	25H
Rel	Periodicals Control System Rel 4	5785-DED	15795	2500	718							24.G320-6662	5787-DAB+FAK+FAL	25H
Rel	Personal Services / 370 Rel 2	5665-330		2400	800		1800	600	132	211		GC30-3292	DISOSS+CIC5+MVS	25K
Rel	Print Services Facility 3800 III Rel 1.1	5665-275		4260	200		3195	150	176	282		G544-3088	MVS	25K
+Rel	Transaction Processing Services Rel 1	5732-006	6140									SC34-0670	System/88	15M
Rel	Virtual Machine/System Product Rel 4	5664-167			443			332	69	110		GC20-1838	S/370,4300,303x,308x	25K
+Rel	Virtual Machine/Personal Computer Rel 2	6467-040	1150									SC24-5254	5664-319+AT/370	05M
Rel	VM High Performance Option Rel 4.0, 4.2	5664-173		5325	1775		3993	1331	136	218		GC19-6221	VM/SP	25K
Rel	VM/SP Entry Rel 2	5664-301	varies		2000	36000						4300		V25K
Rel	VM/SP System Base Rel 2	5750-ES1	varies									G520-0118	VM	V05M
Rel	VM/XA Systems Facility Rel 2	5664-169		11220	3740		84152805	623	997			GC19-6213	4381,308x,3090	25K
Rel	4730 Customization Image Builder Rel 2	5668-870	6000		555	5400						GC31-0029	55X,V5E,V51,MVS,XA	11E
Related	MVS CBIPD Model Inst Related Inst Materl	5751-C52	varies									GC23-0127	5751-CS1	V S
Relational	Data Extract Relational Feature	5668-788/02			375			500						25M
Relational	SQL / Data System - Relational Structure	5748-XXJ			464							347	144	230
Relational	SQL/DS Relational Design Tool	5798-D0L	4400									.G320-0654	V5E,VM	15H
Relational DB	dBASE II (R)	6086-009	495									GB30-2037	PC,3270-PC	05Y
Relational DB	OFFICE38 - WORKSHEET/38 tm	5710-BRL	2790									GB30-2383	System/38	15A
Relational DBMS	BASE (R) SERIES 6000	6871-479	4025									GB30-2037	PC,XT,3270-PC,AT	05Y
Relative	DPXC Relative Sequential Data Sets File	5798-DJJ	346									GB21-2949	DPXC	15X
Release/Shippin	Automotive Release/Shipping Control Syst	5796-ZKA	17600									GB30-2480	System/36	15H
Reload	IMS/V5 Fast Reorganization Reload II	5798-DRP	3960									.G320-9201	IMS/V5	15X
-Remote	CPS Remote Job Entry	5798-NPZ	341		31							12.GB30-1134	Series/1	15H



Keyword	Program Title	Number	OTC	ILC	MLC	DSO	DSI	DSM	MLP	MML	Mo	MoreInfo	Environment	TPLS
Remote	Document Distribution to Remote	5520-RPJ	1540									.GB30-2213	System/36+5520	1SX
Remote	DPPX Remote Job Entry Workstation	5760-XC1	1175	45		998		38	20	32		GC30-3053	DPPX to OS,VSE,VM	1SK
Remote	EDX Advanced Remote Job Entry	5719-RJ1	1050		66							GC34-0458	S/1+MVS,VM,DSO/VSE	1SX
Remote	EDX Remote Manager 1.2	5719-RM1	2000		133							GL23-0138	DSX+HCF+NCCF+NPDA	1SM
Remote	Host Remote Node Entry System II	5796-PPL	2815		150							G320-6647	OS/VSI	1SE
+Remote	PC Network Remote Control (Six-pack)	6276-562	99										NETBIOS+PC,XT,AT	OSR
Remote	Remote Job Entry Facility	5714-RC1	5000	185		4400		163				GC21-7916	System/38	1SA
+Remote	Remote Job Entry Release 1	5732-003	3540									SC34-0680	System/88	1SM
Remote	Remote Job Entry Workstation	5746-RC9	3780		135							.GH20-2199	VSE To VM,OS/VSI	1SB
Remote	Remote Job Entry Workstation RJE	5799-MHX	nc									GH20-1574	DOS/VSI	NOSC
Remote	Remote Spooling Communications Subsys V2	5664-188	6300	337		5355		287	38	61		GH24-5055	VM	1SK
Remote	Remote Spooling Communications Subsys V1	5748-XP1	1111					83	38	61		GH24-5004	VM/SP	1SK
Remote	Remote Spooling Communication Subsystem	5796-PXF	3850									.G320-0323	VSE+VM+6670 line dvr	1SX
Remote	Remote Spooling Communications / SNA	5798-DMJ	4950									.GB21-3050	VM/RSCS	1SX
Remote	RPS Advanced Remote Job Entry	5719-RJ6	1050		36							GC34-0459	Series/1	1SX
Remote	RPS Remote Manager	5719-RM6	2000		133								DSX+HCF+NCCF+NPDA	1SX
Remote	RPS Remote Management Utility	5799-TDH	420		7							GC34-1663	Series/1	1SC
Remote	RPS SNA Remote Management Utility	5799-TEF	220		9							GC34-1711	Series/1	1SE
Remote	SSP Multiple Session Remote Job Entry	5727-556/03	1440			1080						G580-0570	4774	05H
Remote	VM/XA Migration Aid Remote Job Entry	5664-183	2400	800		1800	600	42	67			GC23-0126	VM/XA+VM Pass-thru	1SK
Remote	VSE/POWER Remote Job Entry Version 2	5746-XE3/01	3100	119		2325		107	23	37		GH12-5131	4564,4562,6502,6534	1SK
+Remote	4730 Remote Network Monitor	5668-872	2500									GC31-3572	4700 CRM Ver 2	1SM
Remote	5250 Remote Emulation Program	6403-685	195									G520-1107	PC,XT,PPC,AT+S/36,38	0SZ
Remote	Remote Job Entry Remote Spooling Communications Subsys V2	5664-188	6300	337		5355		287	38	61		GH24-5055	VM	1SK
Reorganization	IMS/VSE Fast Reorganization Reload II	5798-DPR	3960									G320-9201	IMS/VSE	1SX
Rep	Inv Mgmt Prod Rep & Ord Val Eval Improve	5714-D46	9975	349		7475		261				.GH30-0080	System/38	1ID
Replenishment	Inventory Forecasting & Replenishment II	5798-DDR	15110	687								.GB21-2695	OS/VSE, DSO/VSE	1SH
Report writer	R-BASE (R) SERIES 4000	6871-479	495									.GB30-2037	PC,XT,3270-PC,AT	0SY
Report/Applicat	Business Report/Application Developmt Sys	6201-872	1250									G280-0237	System/36 PC	0SG
+Report/Query	DPPX Report/Query	5796-TBM	1750			1500						G520-9505	DPS+DBTM	1SH
Reporter	Cache RMF Reporter	5798-D0D	1210									G520-0362	DF/DS,DFP+RMF+PL/1	1SX
Reporter	DPPX Performance Tool Reporter Feature	5760-XR5/01	2205		80							.GH20-2155	4504,4505	1SB
Reporter	Service Level Reporter Version 2	5668-966		2130	815		1600	611	99	159		.GH19-6213	OS/VSE,MVS/XA	1IK
+Reporter	SOL/MDM III tm Database Reporter	5669-099	995									SV21-8041	Genesys Leader	0SZ
Reporter	Virtual Storage Measurement Reporter	5799-HML	nc										STOR/MVS,CICS,IMS	NOSC
+Reportpack	Reportpack	5608-SR5	320									G544-2099	Displaywriter	0SE
+Reports	Auto Dealer - Management Reports	5796-ZPC	4100									GB30-6013	System/36	1SH
+Reports	Branch Electronic Reports System - Host	5799-BMX	33000									SH17-5500	4700+BMX	1SE
Reports	Branch Electronic Reports System - 4700	5799-BZN	220									SH17-5500	BERS Host	1SE
Reports	Check Reports	5748-F13	16500			552						GH20-2136	OS/VSE, DSO/VSE	1IB
Reports	Network Performance Analysis & Reports	5798-C2X	1890		77							.GB21-2487	OS/VSE, 5798CPR	1SE
Reports+	Personal Decision Series - Reports+ Edtn	6410-937	165									.Data	Edition	0SG
+Reports+	Personal Decision Series - Reports+ Trng	6410-948	95									.Reports+		0SG
+Reports+	Personal Decision Series - Reports+ Edit	6466-984	165									.GH30-9012	3.5" drive	0SG
Reqs	Capacity Reqs Plannng - Upgr from MAPICS	5714-M7G/01	2790			2455							4634,9623	1SE
Reqs	Material Reqs Plannng - Upgr from MAPICS	5714-M7B/01	3290			2895							4631,9621	1SE
Requeueer	Message Requeueer	5796-ATP	4950		154							.G320-6071	IMS/VSE V1	1IE
Requirements	Capacity Requirements Planning	5714-M6G	6560		234		4920		175			GH30-0482	System/38	1ID
+Requirements	Capacity Requirements Planning	5714-M7G	7480		375		6582					GH30-9037	System/38	1SE
Requirements	Capacity Requirements Planning	5726-M6G	5615		228		4215		171			GH30-0221	System/34	1IX

Keyword	Program Title	Number	OTC	ILC	MLC	DS0	DSI	DSM	HLP	MHL	Mo	MoreInfo	Environment	TPLS	
Requirements	Capacity Requirements Planning	5727-M4G	5885		359	4415						.GH50-9002	CASS	15B	
Requirements	Capacity Requirements Planning	5727-M7G	7150		357	6290						.GH50-9006	CASS	15E	
+Requirements	COPICs Capacity Requirements Planning	5668-829	18000		900							.GH19-6415	CIC5+IMS/DL/I+COBOL	15E	
Requirements	COPICs Material Requirements Planning II	5785-GBF	5215		158							.GB21-2646	DOS/VSE OS/VS DL/I	15E	
Requirements	Material Requirements Planning	5714-M4B	6665		239	5000	178					.GH50-0709	System/38	11D	
+Requirements	Material Requirements Planning	5714-M7B	8050		405	7084						.GH50-9037	System/38	15E	
Requirements	Material Requirements Planning	5726-M4B	6405		261	4800	195					.GH50-0221	System/34	11X	
Requirements	Material Requirements Planning	5727-M4B	6710		383	5030						.GH50-9002	CASS	15B	
Requirements	Material Requirements Planning	5727-M7B	7700		385	6775						.GH50-9006	CASS	15E	
Requirements	Requirements Planning	5734-M51	7620		265							.GH20-4618	OS/MFT/MVT/VS	11C	
Requirements	Requirements Planning Connection Records	5734-M51/01	1085		36							.GH20-4618	4541,4543	11C	
Rescaled	3800 90 Degree Rotate Rescaled Char Set	5798-DNK	440									.GB21-3121	MVS+3800-III	15X	
Rescue	Freddy's Rescue Roundup	6276-511	20									PC, XT, PCjr, PPC		05R	
Research	Attorney Practice - Research & Retrieval	5793-ABG	6270									.GB30-2160	5793-ABZ	05X	
Research	Digital Research FORTRAN 77 tm	6871-437	350									.GB20-2037	PC, ST, 3270-PC	05Y	
*Research	Research Queueing Package	7798-RSQ	7800									VM, MVS		05E	
Reservation	Hotel Reservation & Guest Accounting Sys	5710-DD1	66000									.GB50-2034	System/38	15H	
Reservations	EDX Communications Facility - Airlines	5798-ZZE	1210		55						24	.GB30-1550	Series/1	15X	
Resident	EDX COBOL Compiler & Resident Libr V 2	5719-CB5	4710		174							GC34-0388	Series/1	15X	
Resident	EDX PL/I Compiler & Resident Library	5719-PL5	7425		202							GC34-0145	Series/1	15C	
Resident	PL/I Resident Library Release 5.1	5734-LM4	192		64						48 7 11	GC33-0001	MVS, XA+DFP, VM, CICS	15K	
Resident	PL/I Resident Library XT/370	5734-LM4/01	192		4							3002, 3007		05C	
Resident	PL/I Resident Library	5736-LM4	58		58						43 7 11	GC33-0004	DOS, DOS/VS/VSE, CMS	15K	
Resident	RPS COBOL Compiler & Resident Libr V 2	5719-CB7	4710		174							GC34-0390	Series/1	15X	
Resident	RPS PL/I Compiler & Resident lib Ver 2	5719-PL2	7425		202							GC34-0283	Series/1	15C	
+Resource	AIX Virtual Resource Manager	5669-060	1000									GC23-0784	RT	05H	
Resource	MVS Resource Utilization Tool	5798-DRF	2035									.G320-9229	MVS, XA	15H	
Resource	Resource Access Control Facility 1.7	5740-XXH			841							GC28-0722	MVS	25K	
Resource	Resource Allocation Processor Feature	5734-XP4/02	7875		358						630 43 69	.GH20-0855	6202, 6202	01B	
Resource	Resource Allocation Processor Feature	5740-XP1/01	3980		181							.GH19-1055	6003, 6219	11B	
Resource	Resource Allocation Processor Feature	5746-XP1/01	3980		181							.GH19-1055	6004, 6148	11B	
Resource	Resource Limiter	5798-DKN	2475									.GB21-3005	VM	15X	
Resource	Resource Measurement Facility Ver 3.4.1	5665-274			2250	750						1686 562 67 107	MVS/XA	25K	
Resource	Resource Measurement Facility Version 2	5740-XY4			406							304 17 27	MVS	15K	
+Resource	4700 Controller Resource Manager Ver 2	5668-753	1700										4700 FCS	15M	
+Resource	4700 Resource Manager - Teller Applicatn	5668-751	350										4700 CRM Ver 2	15M	
+Resource	4700 Resource Manager - Platform Applic	5668-752	100										4700 CRM Ver 2	15M	
+Resource	4700 Resource Mgr - Consumer Loan Applic	5668-778	1200										4700 CRM Ver 2	15M	
Resources	Earth Resources Management II	5799-ARX	63580		2890							24	GB11-5007	V51	15C
Response	Auto Response	5792-RFA	nc										System/34	NO5X	
Response	Automated Response Line Call Handlg	5798-RRO	5500		250								.G320-9172	System/34	15X
Response	Response Time Estimator (Feature 9231)	6316-968	275										.G320-0334	PC, PCjr, XT, 3270-PC	05H
+Response	Response Time Measurement Facility	5799-PAZ	200										System/36	15A	
*RESQ	Research Queueing Package	7798-RSQ	7800										VM, MVS	05E	
Restaurant	3680 Restaurant System	5668-914	1100										.GH20-6210	VSE, OS/VS+PSS	15A
Restore	Direct Access Storage Dump Restore	5740-UT1	2800		167								.GH20-9116	OS/V51, OS/VS2, OS/MFT	15C
Restore	VSE VSAM Fast Backup Restore Feature	5746-AM2/02			33								GC24-5190	6091, 6506	15K
Restore	VSE/SP VSAM Backup Restore Feature	5666-316/05	441		31	397								28	15X
Restructuring	Data Base Extracting and Restructuring	5796-PLH	16780		655								.G320-6160	IMS/VS PL/I	15X
Results	Hospital Info. Order Comm & Results Rept	5727-AB1/01	15000		750								.S830-7049	6082	15H

Keywords - Alphabetic Sequence

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Codes Explained in Appendix B

Keyword	Program Title	Number	OTC	ILC	MLC	DSO	DSI	DSM	HLP	MML	Mo	MoreInfo	Environment	TPLS
Retail	Financial Applications Bridge - Retail	5726-XA7	5400									24.GH30-0136	System/34	15E
Retail	Planning Aid for Retail Information/Base	5665-320		4708	1350							.GE20-0582	DFDS+DFEF+DMS+IMS+C0	15E
Retail	Planning Aid for Retail Information/Base	5666-294	22275	2775	747							.GH20-5611	DL/1.CICS/DOS/V5,V5E	15E
Retail	Retail Applications System/36	5798-RAS	19900									.GB30-2497	System/36	15H
-Retail	Retail Inventory--Planning,Merchandising	5796-ZDN		10990	2195							12.GB30-2042	System/34	15X
Retail	Retail Inventory, Plan & Mdse. Syst	5796-ZFA		9995	3795							24.GB30-2207	System/38	15X
Retail	Retail Inventory Planning & Mdse	5796-ZGT	66000									.GB30-2319	System/36	15X
-Retail	Retail Pharmacy System	5798-NRN	7290		663							12.GB30-1226	System/34	15H
Retail	Retail Store System Host Support	5744-BQ1	nc									GC30-3022	05/V51	NOSS
Retail	3650 Point-of-Sale Retail Environment	5748-D14	5655		149							48.GC30-3056	DOS/V5,05/V5	15A
Retail	3650 Retail Store System	5744-BQ3	nc									GC30-9512	05/V5	NOSS
Retail	3650 Retail Stores System	5747-BJ1	nc									GC30-3023	DOS/V5	NOSS
Retail	3650 Retail Store System	5747-BJ3	nc									GC30-9514	DOS/V5	NO5N
-Retail	3650 Retail Transaction Staging	5798-DDQ	2595		236							12.GB21-2703	05/V5,V5E 5748-D14	15H
Retrieval	Document Retrieval Assistant	6024-306	149									.G520-1107	PC, PCjr,XT,AT,PPC	05Z
Retrieval	Check Proc Archive Retrieval & Suspense	5796-BTM	8800									.G520-9155	05/V5	15H
Retrieval	Inbound File Analysis and Retrieval	5798-DTP	2555									GB30-2037	ADC5	15H
Retrieval	JMS/DBT High Speed Sequential Retrieval	5668-856/02	8645									.	4739	25E
Retrieval	IES2 Information Retrieval System - CMS	5796-AYD	3960		300							.G320-6334	VM/CMS	15H
Retrieval	Storage & Information Retrieval System	5664-189		1650	575		1235	375				.GH12-5147	VM/ISPF,XT/370	15H
Retrieval	Storage & Information Retrieval System	5740-XR1	28160									.GH12-5114	05/V5,CICS/V5,IMS/V5	25B
Retrieval	Storage & Information Retrieval System	5746-XR4	22990		1045							.GH20-1832	CICS/DOS/V5	25B
Retrieval	STAIRS/V5 Thesaurus Retrieval	5799-AQK	10070		458							.GH20-1908	05/V5+5799-AQL	15B
Retrieval/34	Retrieval/34	5798-RND	1320									.GB30-2083	System/34	15X
Retrieval/36	Retrieval/36	5798-RPX	1320									.GB30-2069	System/36	15X
Return	CPCS / Return Item Feature	5734-F11/02		8825	882								2101,4535	25B
+REVELATION	Network REVELATION tm 4-User Upgrade	6187-232	500									.GB30-2037	PC,XT,AT,3270-PC	05Y
+REVELATION	REVELATION tm	6187-231	950									.GB30-2037	PC,XT,AT,3270-PC	05Y
+REVELATION	REVELATION tm Tutorial	6187-262	25									.GB30-2037	REVELATION	05Y
Revenue	Motor Freight Revenue Accounting	5726-T21	8030		420							.GH30-0413	System/34	11X
Revenue	Revenue Accounting Construction A/R	5726-M6A	3725		151	2795		112				.GH30-0707	System/34	11D
Revenue	Revenue Accounting	5727-M6A	3905		227	2930						.GH30-9003	System/36+CASS	15B
-Reverse	Video Reverse Extract Offline Data Entry	5798-CJG	1690		154							12.GB21-1843	DOS/V5 VIDEO/370	15H
-Reverse	Video Reverse Extract Offline Data Entry	5798-CJP	1690		154							12.GB21-1843	05/V5 VIDEO/370	15H
-Reverse	VIDEO/370 Reverse Extract II	5798-DHD	946	295	86							12.GB21-2893	DOS/V5E	15X
Revolving	Commercial Bank System Revolving Credit	5746-F65			212							.GH20-2497	DOS/V5E+CBAS Base	15X
RFG	Data Dictionary Report and File Generat	5740-XXF/01	15000		555	11250		401	11	17			6576	15K
RFTDCA	DisplayComm Binary Synchronous Communica	6024-187	409									.G520-5917	PC,XT,PPC	05Z
RFTDCA	DisplayWriter/36	5727-4P1	2000		133	1760						.G580-0454	System/36	15A
REITDCA	Host to Displaywriter Document Interchge	5799-BXF	3315									GC09-1037	5796-PHM+5608-SR9	25D
RFTDCA	Host to Displaywriter Document Interchge	5799-BXG	6095									GC09-1037	5796-PHM+5608-SR9	25D
RFTDCA	5520 Attach Kit V3 (Feat 2896) Incl 289	6403-724	875									.G520-5917	All except PCjr	05C
RFTDCA	5520 Attach Version 3 (Feature 2895)	6403-725	384									.G520-5917	All except PCjr	05C
Riches	Rags to Riches Ledger	6187-272	99									.	PC	05Y
Riches	Rags to Riches Accounts Payable	6187-273	99									.	PC	05Y
Riches	Rags to Riches Accounts Receivable	6187-274	99									.	PC	05Y
Riches	Rags to Riches Accounts Sales	6187-275	nc									.	PC	NO5Y
Riches	Rags to Riches Ledger	6187-287	20									.	PC	05Y
Riches	Rags to Riches Accounts Payable	6187-288	20									.	PC	05Y
Riches	Rags to Riches Accounts Receivable	6187-289	20									.	PC	05Y

Keyword	Program Title	Number	OTC	ILC	MLC	DSO	DSI	DSM	HLP	MHL	Mo	MoreInfo	Environment	TPLS	
Riches	Rags to Riches Accounts Sales	6187-290	20										PC	05Y	
Riches	Rags to Riches Dealer Selling Kit	6187-306	15										PC	05Y	
RIFMS	Retail Inventory Planning & Mds	5796-ZGT	66000									.GB30-2319	System/36	15X	
+RISC	Advanced Interactive Executive tm	5669-061	3400									GC23-0784	RT	05H	
+RISC	AIX Virtual Resource Manager	5669-060	1000									GC23-0784	RT	05H	
-RJE	CPS Remote Job Entry	5798-NPZ	341		31						12.GB30-1134	Series/1		15H	
-RJE	EDX Multileaving RJE	5796-RHJ	1485								.GB30-1762	Series/1		15X	
RJE	EDX Systems Network Architecture RJE	5719-SX2	1000		34						SC34-0402	Series/1		15X	
RJE	Remote Job Entry Workstation	5746-RC9	3780		135						.GH20-2199	VSE To VM, OS/VS		15B	
-RJE	Remote Job Entry Workstation RJE	5799-RHX	nc								.GH20-1574	DOS/VS		N05C	
RJE	Remote Spooling Communications Subsys V2	5664-188	6300		337	5355		287	38	61		GH24-5055	VM	15K	
RJE	RJE File Transfer - DPPX to PC 3270 Emu	5799-BRQ	1010									GC23-0630	6024-036	05E	
RJE	System/38 to VSE/POWER RJE BSC	5798-RKB	4155	544	189						12.GB30-1873	System/38		15X	
RJE	SSP Multiple Session RJE	5727-SS1/05	3600		217	3165					GC21-9021	4510,4511,4604		15A	
RJE	3270 Emulation & SNA RJE Support	6024-036	769									0520-3917	PC	05Z	
RJEF	Remote Job Entry Facility	5714-RC1	5000		185	4400		163				GC21-7916	System/38	15A	
RM	BASIC RM	5796-BCX	2842	258	93							.0520-6658	See 5668-996,5665948	15X	
RM/COBOL	IX RM/COBOL tm Compiler & Runtime Interp	6316-996	825									.3209-234	PC/IX	05H	
RM/COBOL	IX RM/COBOL tm Run Time Interpreter	6316-997	249									.3209-234	PC/IX	05H	
RM/COBOL	RM/COBOL tm (on eight-inch diskette)	6294-120	1250									GC22-9267	System 9000+XENIX	05E	
RM/COBOL	RM/COBOL tm (on 5.25-inch diskette)	6294-121	1250									GC22-9267	System 9000+XENIX	05E	
RM/COBOL	RM/COBOL tm Compiler and Runtime	5796-PZK	1900									.0520-0800	System/36	25H	
RM/COBOL	RM/COBOL tm Compiler and Runtime	5796-TBT	1250									.0520-0818	System/36 PC	25S	
RM/COBOL	RM/COBOL tm Runtime	5796-PZL	400									.0520-0800	System/36	25H	
RM/COBOL	RM/COBOL tm Runtime	5796-TBR	250									.0520-0818	System/36 PC	25H	
RMAS	Financial Applications Bridge - Retail	5726-YA7	5400		188						24.GH30-0136	System/34		15E	
RMDS	Report Management & Distribution System	5665-310		5720	858							GC30-3191	MVS+CICS/VS,IMS/VS	15E	
RMF	Cache RMF Reporter	5798-DQD	1210									.0520-0362	DF/DS,DFP+RMF+PL/I	15X	
RMF	Resource Measurement Facility Ver 3.4.1	5665-274		2250	750		1686	562	67	107		GC28-1398	MVS/XA	25K	
RMF	Resource Measurement Facility Version 2	5740-XY4			406			304	17	27		GC28-0921	MVS	15K	
RM4700	4700 Finance System - Controller Manager	5668-935	1300								38	61	GC31-0508	5668-989+5668-934	15K
RM4700AMG	4700 Finance System - Applic Map Genertr	5668-934	21000		1495	18900				48	77		5668-969+5748-XXH	15K	
Robot	Karel the Robot	6024-066	150									0520-1107	PC,XT,PCjr,PPC	05Z	
+Robotics	CATIA (R) Robotics 2.2	Unitd CSTU	5668-836		1725	575		1215	405				CATIA Base	15E	
Robotics	LISP	5798-DQZ	7150		325							.0520-0349	VM	25H	
Rockwell	4250 Monotype Rockwell tm	5771-AAP	640									0520-0004	CDPF (5668-997)	11E	
Rockwell R	Monotype Rockwell(R) Language Extensions	5771-ACG	3000									0520-0004	CDPF	15E	
Rocky's	Rocky's Boots	6024-099	50									0520-1107	PC,XT,PCjr,AT+color	05Z	
+Rsie	PhoneMail 1.3	7798-PHM	varies									0620-6193	CBX-II,PBX,Centrex	V05M	
RDLM	Voice / Text Messaging System	5796-PZB	10560		480							.0520-9231	VM	15H	
Roman	Monotype Times New Roman Cyrillic tm	5771-ACQ	3000									0520-0004	CDPF	15E	
Roman	Monotype Times New Roman Language Extens	5771-ACX	3000									0520-0004	CDPF	15E	
Roman	4250 Monotype Times New Roman tm	5771-AAR	640									0520-0004	CDPF (5668-997)	11E	
Rotate	3800 90 Degree Rotate Rescaled Char Set	5798-DNK	460									.GB21-3121	MVS+3800-III	15X	
Rotated	6670 Fonts Library	5799-BGK	25										MVS	05C	
Roundup	Fraddy's Rescue Roundup	6276-511	20										PC, XT,PCjr,PPC	05R	
Routine	1400 Compatibility Access Routine	5798-CDB	500									.GB21-1546	DOS/VS	11H	
Routing	COPICS Online Routing	5740-YYX	13560		411							.GH12-5138	OS/VS,IMS,CICS,DL/I	25E	
Routing	COPICS Online Routing	5746-XY1	13560		411							.GB21-2650	DOS/VSE,OS/VS DL/I	15E	
Routing	Network Routing Facility Release 3	5668-963		3525	1175		2644	881	248	397		GC27-0594	ACF/NCP 4.2	25K	
Routing	Routing Table Generator	5668-815	6000		300							.GH20-6787	PL/I+MVS,XA or VM	21E	

Keywords - Alphabetic Sequence

3-148

Codes Explained in Appendix B

Keyword	Program Title	Number	OTC	ILC	MLC	DSO	DSI	DSM	MLP	MHL	Mo	MoreInfo	Environment	TPLS
RPG	See yellow pages 4-84 ff.	0000-012	nc											N05C
RPG-II	System/3 to System/36 RPG-II Conversion	5798-DQR	330									.G320-0542	System/36	15H
+RPL	RS/1 tm	5669-187	500										RT AIX	05H
+Rpt	Auto Dealer, Mgt Rpt, Upg from 5796-ZHC	5796-ZPC/01	550									.GB30-6013	System/36	15H
+RS/1	RS/1 tm	5669-187	500										RT AIX	05H
RS/1	RS/1 tm	6317-003	2159									.3209-240	PC-10MB, 3270-PC, AT	05G
+RS/1	RS/1 tm 8 CSTU	5664-316	23000									.G320-0840	VM+GDDM PGM	11SE
+RS/1	RS/1 tm 40 CSTU	5664-316/01	45000									.G320-0840	4731, 4732	11SE
+RS/1	RS/1 tm Unlimited CSTU	5664-316/03144000										.G320-0840	4731, 4732, 4733, 4734	11SE
+RS/1	RS/1 tm 100 CSTU	5664-316/02	84000									.G320-0840	4731, 4732, 4733	11SE
RSCAS	CADAM (R) Express - Base	5664-286	126000	8560	3315							.GH20-6487	5750-VME	15E
RSCS	Remote Spooling Communications Subsys V2	5664-188	6300		337	5355		287	38	61		.GH24-5055	VM	15K
RSCS	Remote Spooling Communications Subsys V1	5748-XP1			111			83	38	61		.GH24-5004	VM/SP	15K
RSCS	Virtual Machine Productivity System	7798-VMP	nc										Information Network	N05C
RSCS/SNA	Remote Spooling Communication Subsystem	5796-PXF	3850									.G320-0323	VSE+VM+6670 line dvr	15X
RSCS/SNA	Remote Spooling Communications / SNA	5798-DMJ	4950									.GB21-3050	VM/RSCS	25E
RTG	Routing Table Generator	5668-815	6000		300							.GH20-6787	PL I+MVS, XA or VM	11X
RTM	Realtime Monitor	5796-PNA	1000		50							.G320-6165	VM/CMS	15E
Run	IX RM/COBOL tm Run Time Interpreter	6316-997	249									.3209-234	PC/IX	05H
Running	DOS Type-I Programs Running with DOS/V5	5731-AA1	nc										DOS/V5	H05S
Runtime	DPPX COBOL Runtime Library	5760-LB1	750		28	637		24	6	10		.GC26-3914	DPPX	15K
+Runtime	ISPF/PC II Runtime Subscriber Updates	6265-436	30									.0520-6006	6317025	05G
+Runtime	ISPF/PC II Runtime Nonsubscriber Updates	6265-487	55									.0520-6006	6317025	05G
+Runtime	ISPF/PC II Runtime Facility	6317-025	59									.0520-6006	All except PCjr	05G
-Runtime	ISPF/PC Runtime Facility	6316-969	55									.GC34-4800	PC, PCjr, 3270-PC, AT	05X
Runtime	IX CONNEXION Runtime (DIBOL tm)	6317-044	425									.G320-0912	6317045	05H
Runtime	IX CONNEXION Runtime (DIBOL tm)	6317-063	500									.G320-0912	6317062	05H
Runtime	IX RM/COBOL tm Compiler & Runtime Interp	6316-996	825									.3209-234	PC/IX	05H
Runtime	RM/COBOL tm Compiler and Runtime	5796-PZK	1900									.G320-0800	System/36	25H
Runtime	RM/COBOL tm Compiler and Runtime	5796-TBT	1250									.G320-0818	System/36 PC	25S
Runtime	RM/COBOL tm Runtime	5796-PZL	400									.G320-0800	System/36	25H
Runtime	RM/COBOL tm Runtime	5796-TBR	250									.G320-0818	System/36 PC	25H
+Runtime	THE FIX tm Runtime w/EPROM for CGA/EGA	5793-AGN	2675									.GB20-2037	Industrial PC	05Y
+Runtime	THE FIX Runtime with EPROM for EGA	5793-AGG/04	2675									.GB30-2027	Industrial PC	05Y
-Runtime	UCSD p-System (R) Runtime System	5608-MS1	375									.0552-0371	Displaywriter	15X
S.M.I.F.T.	Direct Multinetwork Link to S.M.I.F.T.	5666-269		3500	820							.GH12-5142	CICS/DOS/V5+5668-926	15K
S.M.I.F.T.	Direct Multinetwork Link to S.M.I.F.T.	5668-964		6525	1595							.GH12-5142	TMS/V5+5668-926	15K
S.M.I.F.T.	Direct Multinetwork Link to S.M.I.F.T.	5668-965		4280	1280							.GH12-5142	CICS/05/V5+5668-926	15K
S.M.I.F.T.	Direct S.M.I.F.T. Terminal 500 Link	5668-857	24200		1100							.GH12-5149	DMNL+ST5000/3705/25	15B
S.M.I.F.T.	Direct S.M.I.F.T. Network Link	5668-926		2000	299							.GH12-5142	CICS/V5, TMS/V5+BTAM	15K
S.M.I.F.T.	Direct S.M.I.F.T. Link	5740-F15	42130		1915							.GH12-5133	CICS/05/V5	15X
S.M.I.F.T.	Direct S.M.I.F.T. Link	5740-F16	49940		2270							.GH12-5133	TMS/V5	15X
S.M.I.F.T.	Direct S.M.I.F.T. Link	5746-F14	34430		1565							.GH12-5133	CICS/05/V5, DOS/VSE	15B
S.M.I.F.T.	S.M.I.F.T. For ACF/MCP/V5	5799-NRF	nc									.3C19-5016	3704/3705	N05S
S.M.I.F.T.	S.M.I.F.T. RSC EP Support	5799-ARF	3135		98							.3C19-5017	TCAM	15A
+S/1 Office Conn	Personal Services/PC 1.2	6476-054	275										PC, XT, AT, 3270-PC+10M	05H
Sale	EDX Point of Sale - Hospitality	5710-D02	19900									.GB30-2499	Series/1	25M
Sales	Detail Sales Analysis	5798-RPG	632									.GB30-2225	System/36	15X
Sales	Distributors Mgt Acctg - Sales Anal	5727-D44	3685		214	2765						.GH30-0696	CASS	15B
Sales	Rags to Riches Accounts Sales	6187-275	nc										PC	H05Y

Keyword	Program Title	Number	OTC	ILC	MLC	DSO	DSI	DSM	MLP	MHL	Mo	MoreInfo	Environment	TPLS	
Sales	Rags to Riches Accounts Sales	6187-290	20										PC	05Y	
Sales	RPS Sales Proposals and Illustrations	5710-RTK/02	2530		115								2106,2113	15X	
Sales	Sales Analysis Distribution	5714-D44	4040		139	3030		105				.GH30-0130	System/38	11D	
Sales	Sales Analysis	5714-M48	3410		121	2560		90				.GH30-0708	System/38	11D	
+Sales	Sales Analysis	5714-M78	4200		210	3696						.GH30-9035	System/38	15E	
Sales	Sales Analysis - Upgrade from MAPICS	5714-M78/01	1260			1349							4622, 9615	15E	
Sales	Sales Analysis Distributors	5726-D4D	2150		111							.GH30-0093	System/34	11X	
Sales	Sales Analysis Lumber Dealers	5726-D4H	2150		111							.GH30-0166	System/34	11X	
Sales	Sales Analysis Distributors	5726-D44	3350		125	2515		88				.GH30-0185	System/34	11X	
Sales	Sales Analysis Food Distributors	5726-D68	2150		95							.GH30-0156	System/34	11X	
Sales	Sales Analysis - Mfg	5726-M38	1575		77							.GH30-0220	System/34	11C	
Sales	Sales Analysis	5726-M48	3515		143	2640		108				.GH30-0221	System/34	11X	
Sales	Sales Analysis	5727-M48	3685		215	2765						.GH30-9000	CASS	15B	
Sales	Sales Analysis	5727-M78	4015		203	3530						.GH30-9005	CASS	15E	
-Sales	Sales Analysis Enhancements	5796-RJL	550									.GB30-1810	System/34	15X	
+Sales	SOLOMON III tm Sales Analysis	5669-096	595									SV21-8041	OrderEntry+Inventory	05Z	
Sales	3680 Store Systems Sales Application	5735-D61	304		8						48	.GH20-5608	SPPS II & PSS Host	15A	
+Sales	4680 General Sales Application	5669-031	900									SC30-3367	4680 Operating Syste	15M	
+Sales	4680 General Sales Applic Source Code	5669-031/01	10000									SC30-3367	7898	15M	
-Sales Analysis	BICARSA Online	5798-RFR	5445		495						12	.GB30-1667	System/34	15X	
-SAM	DPPX Segmented Access Method	5796-BCQ				270						12	.G320-6639	DPPX,DTMS	15X
SAM	VSE VSAM Space Management for SAM	5746-AM2/01			44			40	9	14		GC24-5143	6074,6507	15K	
+SAMNA+	SAMNA+ tm	5669-087	1295									SV21-8057	RT AIX	05Z	
+SAMON	SNA Application Monitor	5665-345	9000			7650							MVS+VTAM 2 or 3	25E	
Sampler	Thoughtware (R) Sampler	6187-217	319									.GB30-2037	PC,XT,PCjr=HD52	05Y	
Sans	Sonoran Sans Serif tm(Source or Object)	5771-ABB	640									6544-3088	PSF-3800/20/3812	25E	
+Sans	3812 Fonts - Sonoran Sans Serif	5669-162	640										3812 Font Mgt System	05H	
SAR	High Level Image Processing System	5785-ABB	13530		615							.G320-9211	VM+PL/I+HUBS+7350	15H	
SAS	Student Accounting School Administration	5726-E32	3410		167							.GH30-0414	System/34	11X	
SAS	Student Records School Administration	5726-E31	3095		151							.GH30-0410	System/34	11X	
SAS	Student Scheduling School Administration	5726-E33	4095		200							.GH30-0415	System/34	11X	
SAT	Computer Preparation for the SAT tm	6187-307	79									.GB30-2037	PC,XT,PCjr	05Y	
SAT	SAT Word Attack! Data Disk	6187-238	20										PC	05Y	
-SAT analysis	College Business Sys Student Records	5796-RQF	7150									.GB30-2181	System/36	15X	
Save/Restore	CPS 4963/4966 Save/Restore	5799-TDK	358		15						24	GC34-1622	Series/1	15C	
Savings	Commercial Bank Savings Accounting	5746-F62			378							.GH20-2497	DOS/VSE+CBAS Base	15X	
Savings	Payroll 401K Tax-Deferred Savings Plan	5798-RMK	300									.GB30-2493	S/36 DMAS Payroll	15H	
Savings	Savings Accounting Banking	5726-F13	3550		184							.G360-0050	System/34	11X	
Savings	401K Tax-deferred Savings Plan	5798-RNF	300									.GB30-3316	S/38 MAPICS Payroll	15X	
Savings	401K Tax-deferred Savings Plan	5798-RNG	300									.GB30-3316	S/34 MAPICS Payroll	15X	
Savings	401K Tax-deferred Savings Plan	5798-RNH	300									.GB30-3316	S/36 MAPICS Payroll	15X	
Sb21-3094	Braille Text	5798-DNC	2640									.GB21-3093	VM,MVS	15H	
-Sb30-2253	Financial Planning and Modeling	5796-ZFD	2970									.GB30-2249	System/38	15X	
Sb30-2407	Management Information	5798-RTG	3600									.GB30-2407	VSE,MVS+COBOL	15H	
Sb30-2412	Management Information	5798-RTG	3600									.GB30-2407	VSE,MVS+COBOL	15H	
-Scan	DL/T Fast Scan Utility for DOS/V5	5798-CYJ	2570									.GB21-2380	DOS/VS DL/I	11H	
-Scan	ICCF Library Scan	5796-PQB	660		50							.G320-6630	DOS/VSE,ICCF	15H	
Scanmaster	Image Distribution System - Scanmaster	5799-BJA	8800		440							SH18-0058	CICS/OS/VS	15X	
Scanmaster	Image Distribution System - Scanmaster	5799-BJB	8000		428							SH18-0058	CICS/OS/VS	15X	
Scanmaster	Image View Facility	5785-ECX	5940		270							.G320-0331	DISOSS+8815+MVS	15H	

Keyword	Program Title	Number	OTC	ILC	MLC	DSO	DSI	DSH	MLP	MML	Mo	MoreInfo	Environment	TPLS
Scanning	Student Optical Scanning System	5796-ZNG	1500										.GB30-6002 Student Mgt System	15H
Scattergrams	Scattergrams	6276-553	20										PC,XT,jr,AT,PPC	05R
+Sched	MAPICS II Master Prod Sched Plan Rel 1	5714-MJ	13250					11640					.5B30-3285 System/38	15E
Schedule	Master Production Schedule Planning	5668-898	31500					1380					.GH30-0737 .CICS+C0B0L+IMS,DL/I	15E
+Schedule	Master Production Schedule Planning	5727-MJ	11500					575	10120				.GH30-9005, System/36	15E
Scheduler	Project Scheduler 5000 Plus Graphics tm	6085-992	395										.GB30-2037 PC, XT	05Y
Scheduler	Project Scheduler 5000	6871-485	285										.GB30-2037 PC, XT	05Y
Schedules	Office System - Financial Schedules	5793-ABN	2640										.GB30-2166 5793-ABZ	05X
Scheduling	Chained Jobs Scheduling	5785-GAK	11520					858					.GB21-2869 05/VS	15H
-Scheduling	EDX Time, Attendance and Scheduling Syst	5796-RNL	2300										.GB30-2098 Series/1	15X
Scheduling	Project Planning and Scheduling	6276-500	150										PC,XT,jr,AT,3270-PC	05R
Scheduling	Student Scheduling School Administration	5726-E33	4095			200							.GH30-0415 System/34	11X
Scheduling	Student Scheduling System	5796-ZNF	5000										.GH30-6002 Student Mgt System	15H
Scheduling	Vehicle Scheduling Program - Extended	5734-XMS	6115					278					.GH19-2000 05/VS	11C
Scheduling	Vehicle Scheduling Program - Extended	5736-XMS	3190					165					.GH19-2000 05S,05S/VS	11C
Schematics	Interactive Schematics Builder for ACS	5799-CAF	8800			400							. 5799-AHE and BEJ	05C
School	School - Employee Management System	5796-ZGA	13200										.GB30-2268 5796-ZFY	15H
School	School - Financial Management	5796-ZFY	15950										.GB30-2268 System/36	15H
School	School - Fixed Asset Inventory System	5796-ZGB	3960										.GB30-2268 5796-ZFY	15H
School	School - Library Management System	5796-ZGF	1980										.GB30-2268 System/36	15H
School	School - Student Administration System	5796-ZFZ	15200										.GB30-2268 5796-ZFY	15H
School	School - Student Attendance System	5796-ZGC	3760										.GB30-2268 5796-ZFZ	15H
School	School - Warehouse Inventory System	5796-ZGD	5280										.GB30-2268 5796-ZFY	15H
School	Student Accounting School Administration	5726-E32	3410			167							.GH30-0414 System/34	11X
School	Student Records School Administration	5726-E31	3095			151							.GH30-0410 System/34	11X
School	Student Scheduling School Administration	5726-E33	4095			200							.GH30-0415 System/34	11X
+School pkg	Human Life: Development & Differentiatn	6024-444	295										6520-1107 PC,XT,AT,PCjr+color	05Z
+School pkg	Math Concepts Series: Grades 1-2	6024-368	789										6520-1107 PC,XT,PCjr,AT 128k	05Z
+School pkg	Math Concepts Series: Grades 3-4	6024-369	789										6520-1107 PC,XT,PCjr,AT 128k	05Z
+School pkg	Math Concepts Series: Pre-school	6024-370	675										6520-1107 PC,XT,PCjr,AT 128k	05Z
+School pkg	Math Concepts Series: Grades 5-6	6024-417	879										6520-1107 PC,XT,PCjr,AT 128k	05Z
+School pkg	Math Concepts Series: Grades 7-8	6024-419	879										6520-1107 PC,XT,PCjr,AT 128k	05Z
+School pkg	Math Practice: Grades 3-4	6024-371	629										6520-1107 PC,XT,AT,PCjr+color	05Z
+School pkg	Math Practice: Grades 1-2	6024-372	429										6520-1107 PC,XT,AT,PCjr+color	05Z
+School pkg	Math Practice: Grades 5-6	6024-421	429										6520-1107 PC,XT,AT,PCjr+color	05Z
+School pkg	Math Practice: Grades 7-8	6024-422	429										6520-1107 PC,XT,AT,PCjr+color	05Z
+School pkg	Parts of Speech Series: Grades 3-4	6024-378	450										6520-1107 PC,XT,AT,PCjr+color	05Z
+School pkg	Parts of Speech Series: Grades 5-6	6024-379	450										6520-1107 PC,XT,AT,PCjr+color	05Z
+School pkg	Pollination & Fart: Seeds,Fruits,Embryos	6024-445	295										6520-1107 PC,XT,AT,PCjr+color	05Z
+School pkg	Reading for Information: Grades 7-8	6024-366	750150										6520-1107 PC,XT,AT,PCjr+color	05Z
+School pkg	Reading for Information: Grades 3-4	6024-386	565										6520-1107 PC,XT,AT,PCjr+color	05Z
+School pkg	Reading for Information: Grades 5-6	6024-387	675										6520-1107 PC,XT,AT,PCjr+color	05Z
+School pkg	Reading for Meaning Series: Grades 7-8	6024-364	675										6520-1107 PC,XT,AT,PCjr+color	05Z
+School pkg	Reading for Meaning Series: Grades 3-4	6024-374	675										6520-1107 PC,XT,AT,PCjr+color	05Z
+School pkg	Reading for Meaning Series: Grades 5-6	6024-375	675										6520-1107 PC,XT,AT,PCjr+color	05Z
+School pkg	Reading for Meaning Series: Grade 2	6024-384	675										6520-1107 PC,XT,AT,PCjr+color	05Z
+School pkg	Spelling Series: Grades 1-2	6024-380	495										6520-1107 PC,XT,AT,PCjr+color	05Z
+School pkg	Spelling Series: Grades 3-4	6024-381	495										6520-1107 PC,XT,AT,PCjr+color	05Z
+School pkg	Spelling Series: Grades 5-6	6024-382	495										6520-1107 PC,XT,AT,PCjr+color	05Z
+School pkg	Taxonomy: Classification & Organization	6024-446	296										6520-1107 PC,XT,AT,PCjr+color	05Z

Keyword	Program Title	Number	OTC	ILC	MLC	DSO	DSI	DSM	HLP	MML	Mo	MoreInfo	Environment	PLS
+School pkg	The Environment: Cycles & Interactions	6024-443	295									G520-1107	PC,XT,AT,PCjr+color	05Z
+School pkg	Touch Typing for Beginners	6024-363	385									G520-1107	PC,XT,AT,PCjr+color	05Z
+School pkg	Vocabulary Series: Grades 7-8	6024-352	495									G520-1107	PC,XT,AT,PCjr+color	05Z
+School pkg	Vocabulary Series: Grades 3-4	6024-376	495									G520-1107	PC,XT,AT,PCjr+color	05Z
+School pkg	Vocabulary Series: Grades 5-6	6024-377	495									G520-1107	PC,XT,AT,PCjr+color	05Z
Schoolbook	4250 Monotype Century Schoolbook tm	5771-AAF	640									G520-0004	CDPF (5668-997)	11E
Schools	Schools Financial Accounting System	5796-ZNA	8000									.0830-6002	System/36 PC	15H
Schools	Schools Inventory Management System	5796-ZMC	3000									.0830-6002	Financial Acctg Syst	15H
Schools	Schools Payroll System	5796-ZNB	8000									.0830-6002	Financial Acctg Sys	15H
Science	Characters for Mathematics and Science	5771-ACH	96.0									G520-0004	CDPF	15E
Science	Earthquakes (Earth Science Series)	6024-322	55									G520-1107	PC,PCjr,XT,AT,PPC	05Z
Science	Ground Water - Earth Science Series	6024-122	55									G520-1107	PC,XT,PCjr,PPC+DOS2+	05Z
Science	Hydrologic Cycle - Earth Science Series	6024-121	55									G520-1107	PC,xt,PCjr,PPC+DOS2+	05Z
Science	Surface Water - Earth Science Series	6024-123	55									G520-1107	PC,XT,PCjr,PPC+DOS2+	05Z
Science	Volcanos (Earth Science Series)	6024-323	55									G520-1107	PC,PCjr,XT,AT,PPC	05Z
+Scientific	Engineering & Scientific Subroutine Lib	5668-863				700		525				GC23-0182	Vector Facility	15E
Scientific	Personal Scientific Calculator	6276-513	25										PC,XT,jr,AT,3270-PC	05R
+Scientific	Scientific Models: Batteries&Bulbs&Famil	6024-472	75										128k+color	05G
+Scientific	Scientific Subroutine Library 1.1 5.25"	5669-083	325										C505 Ext 1.13	05X
+Scientific	Scientific Subroutine Library 1.1 8"	5669-083/01	325										4520	05X
Scientific	Scientific Subroutine Package	5798-NYD	800									.0830-1563	Series/1 + FORTRAN	15X
Scientific	Scientific Subroutine lib on 5.25" Disk	6331-471	325									GC22-9262	C505 Ext+FORTRAN	05W
Scientific	Scientific Subroutine Library on 8" Disk	6331-473	325									GC22-9262	C505 Ext+FORTRAN	05W
Scientific	Scientific Subroutine Library on 8" disk	6419-369	325									GC22-9262	S/9000+FORTRAN,Pasca	05W
Scientific	Scientific Subroutine Library 5.25" disk	6419-472	325									GC22-9262	S/9000+FORTRAN,Pasca	05W
Scientific	The Scientific Desk tm	6187-278	420									.0830-2037	PC,XT,AT,RT	05Y
Scientific	T3 tm Scientific Word Processing System	6187-281	595									.0830-2037	PC,XT,XT/370,AT,RT	05Y
-Screen	COBOL - 3270 Full Screen Support	5796-ATK	1570		143							12.0320-6067	T50	15H
Screen	Extended Editor and Full Screen Manager	5796-PLY	1685		85							.0320-6168	VSAPL with VM, T50	15E
Screen	EDX 3101 Full Screen Subroutines	5798-RJH	269									.0830-1865	Series/1	15X
Screen	Graphpak Full Screen Interface	5796-PPH	858			65						G320-6642	05/VS,VM,VSAPL	15H
Screen	Print Screen Utility	6024-186	35									G520-3917	PC,XT+DOS2	05Z
Screen	Screen Definition Facility	5664-178		1685	294		1265	200	44	70		.GH19-6087	VM	.15K
Screen	Screen Definition Facility CICS/VS	5666-288		1305	249		979	187	47	75		.GH19-6096	SSX/VSE	15K
Screen	Screen Definition Facility	5740-XYF	7675		349	5760	262	50	80			.GH19-6087	05/VS,MVS/XA or CICS	.15K
Screen	Screen Definition Facility	5746-XXT	5345		243	3980	165	44	70			.GH19-6087	VSE or CICS/DOS/VS	.15K
-Screen	3101 Full Screen Control Program Support	5798-RFT	310									.0830-1639	Series/1	15H
-Screen	3270 Screen Image Preprocessor	5796-AFC			123							12.0320-8099	05, 05/VS	15H
Script	Advanced Text Management System III	5740-XYL	25410		1155							.GH20-2404	CICS/05/VS	25B
Script	Braille Text	5798-DNC	2640									.0821-3093	VM,MVS	15H
SCRIPT	Composed Document Printing Facility	5668-997	4800		342				49	78		GC33-6133	SCRIPT and/or GDDM	15K
Script	Document Composition Facility DCF	5748-XX9			972	324							VM,VSE,MVS	15E
Script	Document Composition Facility XT/370	5748-XX9/02	864		19								3003,3008	05C
SCRIPT	Graphic Data Display Manager	5748-XXH			767	159		575	120	36	58	GC33-0100	VM,CICS,IMS,MVS	15K
Script	Graphics and Color / Script	5798-DMN	3080									.0821-3074	DCF (Script)	15X
-SCRIPT	MANYPONT Text Processing Type Faces	5796-PPE	1450		132							12.0320-6634	DCF	15H
SCRIPT	SCRIPT Mathematical Formula Formatter	5798-DPW	5600		300							.0320-9189	4250/MVS or VM+DCF	15H
Script	Virtual Machine Productivity System	7798-VMP	nc										Information Network	N0SC
SCRIPT	4250 ITC Avant Garde Gothic tm	5771-AAA	640									G520-0004	CDPF (5668-997)	11E
Script	6670 II Image Printing System	5785-FAZ	660									G320-0332	Font files,edit+PI/I	15H

Keywords - Alphabetic Sequence

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Codes Explained in Appendix B



Keyword	Program Title	Number	OTC	ILC	MLC	DSO	DSI	DSM	HLP	MML	Mo	MoreInfo	Environment	TPLS
Script interfacs	Storage & Information Retrieval System	5664-189		1650	575			1235	375				GH12-5147 VM+ISPF,XT/370	15M
SCRIPT/VS	DCF Foreground - CMS TSO ATMS III	5748-XX9/01		180	60								GH20-9158 6043,2107	15E
ScubaVenture	ScubaVenture (Feature 4088)	6024-088	35										0520-3917 PCjr+DOS 2.1	05Z
Sc09-1026	PLI	5714-PL1	9800		524	8624		461					GC21-8017 System/38	15A
Sc21-8086	Business Graphics Utility	5714-GP1	2000	107	1760			94					GC09-1060 System/38	15E
Sc21-8007	Business Graphics Utility	5714-GP1	2000	107	1760			94					GC09-1060 System/38	15E
SDF	Screen Definition Facility	5664-178		1685	294		1265	200	44	70			.GH19-6087 VM	15K
SDF	Screen Definition Facility	5666-288		1305	249		979	187	47	75			.GH19-6096 S5X/VSE	15K
SDF	Screen Definition Facility	5740-XYF	7675		349	5760		262	50	80			.GH19-6087 OS/VS,MVS/XA or CICS	15K
SDF	Screen Definition Facility	5746-XYT	5345		243	3980		165	44	70			.GH19-6087 VSE or CICS/DOS/VS	15K
SDLC	DPFX SDLC Auto-Answer	5799-BDE			27			20					8100/DPFX	15B
+SDLC	Synchronous Data Link Control Protocol	5732-010	3300										SC34-0677 System/88	15M
SDMA	Storage Device Migration Aid	5796-PHP	6195		279								.G320-5714 OS, OS/VS, MVS/XA	11X
SDSF	Spool Display and Search Facility	5798-DGN	1650										.GB21-2865 MVS,MVS/XA	15H
Search	Alpha Search Inquiry System	5736-N14	6375		303								.GH20-1188 CICS/OS/DOS/VS,CMS	15C
-Search	Alpha Search Inquiry - IMS Interface	5798-AMB	8105		737						12	.GB21-0987 OS		11H
-Search	Alpha Search Inquiry Sys Online Update	5798-CFJ	4840		440						12	.GB21-1677 CICS/DOS/OS/VS,CMS		15H
Search	Display Information Alpha Search	5714-XR1	3410		119	2560		89					.GH30-0145 System/38	11D
Search	Spool Display and Search Facility	5798-DGN	1650										.GB21-2865 MVS,MVS/XA	15H
Search	Work Station Search Facility	5714-HS1	827										.GH30-0458 System/38	15D
Search	Work Station Search Facility	5726-XR1	503										.G580-0212 System/34	01B
Search	Work Station Search Facility	5727-XR1	935										.G580-0212 System/36,S/36 PC	15B
Search/retrieve	Distributed Office Support System Ver 3	5665-290		4570	1485		34251110	223	357				GC30-3085 CICS/VS+MVS,XA	25K
Search/retrieve	Distributed Office Support System Ver 3	5666-270		1719	570		1275	425	176	282			GC30-3085 CICS/VS+VSE	25K
Search/retrieve	Report Management & Distribution System	5665-310		5720									GC30-3191 MVS/CICS/VS,IMS/VS	15E
Search/retrieve	Storage & Information Retrieval System	5740-XR1	28160		1280								.GH12-5114 OS/VS,CICS/VS,IMS/VS	25B
Search/retrieve	Storage & Information Retrieval System	5746-XR4	22990		1045								.GH20-1832 CICS/DOS/VS	25B
Search/retrieve	SQL / Data System - Relational Structure	5748-XXJ	464			547	144	230					.GH24-5012 DOS/VSE,SSX/VSE,VM	25K
SEASAT	High Level Image Processing System	5785-ABB	13530		615								.G320-9211 VM/PL1+HBUS+7350	15H
-Secondary	Career Guidance System- Secondary School	5796-AYB			250						24	.G320-6176 5796-AYA		15H
Secondary	Secondary Operator Facility	5798-CRE	1005										.GB21-2179 OS/VS2,MVS/XA	15H
+Secondary	Secondary Systems Network Architecture	5732-029	5500										GX34-1000 5732-027	15M
Secrets	Gertrude's Secrets	6024-097	49										G520-3917 PC,XT,PCjr+Color	05Z
Section	Document Control Section Edit 3694	5798-RFL		100							12	.GB30-1645 System/34+5748-F53		15X
Section	Education Info Syst - Section Developm	5796-PQT	8910										.G320-6665 5796-BAZ	15X
Sector	Public Sector Acctg Sys - Utility Acctg	5710-GA6	8500										. System/36	15I
Sector	Public Sector Budgeting/Accounting	5710-GA4	10890										. System/36	15H
Sector	Public Sector Payroll & Personnel Acctg	5710-GA5	4400										. System/36	15I
Security	CICS/VSE Security Manager	5798-DKT	990										.GB21-3018 CICS/DOS/VSE	15X
-Seek	DASD Seek Simulator	5798-CTD	1650										.GB21-2217 OS/VS	11H
Seeking	Word Seeking	6276-534	20										PC,XT,jr,AT	05R
-Segmented	DPFX Segmented Access Method	5796-BCQ			270						12	.G320-6639 DPFX,DTMS		15X
+SEISPAK	UNIRAS tm SEISPAK	5669-113	7650		50						12	.G320-6405 RASPAK/RASPAK SOLIDS		05Y
-Select	Universal Dump, Alter, Copy, & Select	5796-BAF											OS/VS	15H
Select-A-Font	Select-A-Font	6276-514	20										PC,XT,jr,AT,3270-PC	05R
-Selection	ACF/VTAM Buffer Selection Aid	5798-DHF	742										.GB21-2900 MVS,DOS/VSE	15X
Voteer	Voter Registration / Jury Selection Syst	5796-PXW	12100										.G320-0339 System/34,36+CDBDL	15H
-Selector	VTAM Level Selector	5798-DBZ	1890		78								.GB21-2580 OS/VS-MVS	15X
Self	BPI Self Training Series - Accounts Paya	6187-256	70										. PC	05Y
Self	BPI Self Training Series - Accounts Rec	6187-257	70										. PC	05Y

Keyword	Program Title	Number	OTC	ILC	MLC	DSO	DSI	DSH	MLP	MHL	Mo	MoreInfo	Environment	TPLS
Self	BPI Self Training Series - General Acctg	6187-258	70										PC	05Y
Self-Study	BASIC Self-Study Course	5796-ZBN	550									.GB30-1914	Sys/23 Datamaster	15X
Selling	Rags to Riches Dealer Selling Kit	6187-306	15										PC	05Y
+Self-Teach	Self-Teach, The Online XEDIT Tutorial	5798-DMM	1500									.G320-9499	VM	25H
SEP	Link Control FDx IATA 3704 SEP	5799-AHP	12100		550								AC	15B
SEPP	Virtual Machine System Extensions VM/SE	5748-XE1			1435			1076	197	315		.GC20-1827	VM/CMS	25X
Sequential	DPCX Relative Sequential Data Sets File	5798-DJJ	346									.GB21-2949	DPCX	15X
-Sequential	HDAM Sequential Random Generator	5798-CQG	2320									.GB21-2126	OS/V52.MVS/XA	01H
Sequential	IMS/DBT High Speed Sequential Retrieval	5668-856/02	8645									.4739		25E
Serial	Serial OEM Interface Access Method	5664-201	2500		139							.GA33-1585		25E
Serial	Serial OEM Interface	5666-330	2500		139							.GA33-1585		25E
SERIES	R-BASE (R) SERIES 4000	6871-479	495									.GB30-2057	PC,XT,3270-PC,AT	05Y
SERIES	R:BASE SERIES tm 5000	6205-281	700									.GB30-2057	PC,XT,AT,3270-PC	05Y
Series 800	Info Sys for Attorneys - Accts Payable	5793-AFZ	1750									.GB30-6012	5793-ACJ	05H
Series/1-PC	Series/1-PC Connect	5719-CN1	400									.G520-0102	RFS and DOS	15L
+Series:	Math Concepts Series: Grades 1-2	6024-355	175									.G520-1107	PC,XT,PCjr,AT	128k 05Z
+Series:	Math Concepts Series: Pre-school	6024-356	150									.G520-1107	PC,XT,PCjr,AT	128k 05Z
+Series:	Math Concepts Series: Grades 3-4	6024-357	175									.G520-1107	PC,XT,PCjr,AT	128k 05Z
+Series:	Math Concepts Series: Grades 1-2	6024-368	789									.G520-1107	PC,XT,PCjr,AT	128k 05Z
+Series:	Math Concepts Series: Grades 3-4	6024-369	789									.G520-1107	PC,XT,PCjr,AT	128k 05Z
+Series:	Math Concepts Series: Pre-school	6024-370	675									.G520-1107	PC,XT,PCjr,AT	128k 05Z
+Series:	Math Concepts Series: Grades 5-6	6024-417	879									.G520-1107	PC,XT,PCjr,AT	128k 05Z
+Series:	Math Concepts Series: Grades 7-8	6024-419	879									.G520-1107	PC,XT,PCjr,AT	128k 05Z
+Series:	Math Concepts Series: Grades 5-6	6024-427	195									.G520-1107	PC,XT,PCjr,AT	128k 05Z
+Series:	Math Concepts Series: Grades 7-8	6024-429	195									.G520-1107	PC,XT,PCjr,AT	128k 05Z
+Series:	Parts of Speech Series: Grades 3-4	6024-333	100									.G520-1107	PC,XT,AT,PCjr+color	05Z
+Series:	Parts of Speech Series: Grades 5-6	6024-334	100									.G520-1107	PC,XT,AT,PCjr+color	05Z
+Series:	Parts of Speech Series: Grades 3-4	6024-378	450									.G520-1107	PC,XT,AT,PCjr+color	05Z
+Series:	Parts of Speech Series: Grades 5-6	6024-379	450									.G520-1107	PC,XT,AT,PCjr+color	05Z
+Series:	Reading for Meaning Series: Grade 2	6024-330	150									.G520-1107	PC,XT,AT,PCjr+color	05Z
+Series:	Reading for Meaning Series: Grades 3-4	6024-336	150									.G520-1107	PC,XT,AT,PCjr+color	05Z
+Series:	Reading for Meaning Series: Grades 5-6	6024-337	150									.G520-1107	PC,XT,AT,PCjr+color	05Z
+Series:	Reading for Meaning Series: Grades 7-8	6024-338	150									.G520-1107	PC,XT,AT,PCjr+color	05Z
+Series:	Reading for Meaning Series: Grades 7-8	6024-364	675									.G520-1107	PC,XT,AT,PCjr+color	05Z
+Series:	Reading for Meaning Series: Grades 3-4	6024-374	675									.G520-1107	PC,XT,AT,PCjr+color	05Z
+Series:	Reading for Meaning Series: Grades 5-6	6024-375	675									.G520-1107	PC,XT,AT,PCjr+color	05Z
+Series:	Reading for Meaning Series: Grade 2	6024-384	675									.G520-1107	PC,XT,AT,PCjr+color	05Z
+Series:	Spelling Series: Grades 1-2	6024-347	110									.G520-1107	PC,XT,AT,PCjr+color	05Z
+Series:	Spelling Series: Grades 3-4	6024-348	110									.G520-1107	PC,XT,AT,PCjr+color	05Z
+Series:	Spelling Series: Grades 5-6	6024-349	110									.G520-1107	PC,XT,AT,PCjr+color	05Z
+Series:	Spelling Series: Grades 1-2	6024-380	495									.G520-1107	PC,XT,AT,PCjr+color	05Z
+Series:	Spelling Series: Grades 3-4	6024-381	495									.G520-1107	PC,XT,AT,PCjr+color	05Z
+Series:	Spelling Series: Grades 5-6	6024-382	495									.G520-1107	PC,XT,AT,PCjr+color	05Z
+Series:	Vocabulary Series: Grades 3-4	6024-350	110									.G520-1107	PC,XT,AT,PCjr+color	05Z
+Series:	Vocabulary Series: Grades 5-6	6024-351	110									.G520-1107	PC,XT,AT,PCjr+color	05Z
+Series:	Vocabulary Series: Grades 7-8	6024-352	495									.G520-1107	PC,XT,AT,PCjr+color	05Z
+Series:	Vocabulary Series: Grades 3-4	6024-376	495									.G520-1107	PC,XT,AT,PCjr+color	05Z
+Series:	Vocabulary Series: Grades 5-6	6024-377	495									.G520-1107	PC,XT,AT,PCjr+color	05Z
Series1000	Info Sys for Attorneys - Accts Payable	5793-AFX	3500									.GB30-6012	5793-ABA	05H
Series1000	Info Sys for Attvns Upgr from 5793-AFZ	5793-AFX/01	2100										4535	05H

Keyword	Program Title	Number	OTC	ILC	MLC	DSO	DSI	DSM	MLP	MML	No	MoreInfo	Environment	TPLS
Serif	Sonoran Sans Serif tm(Source or Object)	5771-ABB	640									0544-3088	PSF+3800/20/3812	25E
Serif	Sonoran Serif (Source or Object)	5771-ABA	640									0544-3088	PSF+3800/20/3812	21E
+Serif	3812 Fonts - Sonoran Serif	5669-161	640										3812 Font Mgt System	05H
+Serif	3812 Fonts - Sonoran Sans Serif	5669-162	640										3812 Font Mgt System	05H
Serv	DPFX Distributed Presentation Serv Ver 2	5660-264		180				135	18	29			DPFX	15K
Serv	DPFX Distributed Presentation Serv Ver 1	5760-XR1	1500		56	1275		47	11	17		GC33-0090	DPFX	15K
+Server	Asynchronous Server for Token & PC Netwk	1642-003	495										Token-Ring NETBIOS	05Z
+Server	EDX MAP tm Application Server	5719-XT1	4500		321							SL23-0150	XHCS	15M
+Server	RPS MAP tm Communications Server	5719-XT2	9500		679							SL23-0148	XHCS	15M
Server	ISO Host Server for PC XT/370 (VM/PC)	5798-BT1	2420									0520-3917	MVS+VTAM	15H
+Server	VM/PC Host Server	5664-319	2000		155								VM/VM/PC on AT/370	15X
Server	Waterloo PC Network Standalone Server	5793-AAN	1650									.GB30-2411	DOS+RPS on Series/1	05F
Server	Waterloo PC Network VM Server	5793-AAN/02	1650									.GB30-2411	2002	05F
-Service	3800 Page Formatting Service	5796-AHE	3890		295							12.0320-6067	05/VS	15H
+Service	Auto Dealer - Service Merchandising	5796-ZPA	8600									.GB30-6013	System/36	15H
+Service	Auto Dealer, Service, Upg from 5796-ZHA	5796-ZPA/01	50									.GB30-6013	System/36	15H
Service	Customer Service Billing Distribution	5714-D41	4985		173	3735		129				.GH30-0130	System/38	11X
Service	Data Communication Service Release 2	5668-865	20000	1605	535								MVS, XA, VM	15E
Service	Font Library Service Facility	5668-890	2500						36	58		GC33-6165	ISPF+4250,3820	15K
Service	Hardware Maintenance and Service 5150	6025-072	155									0520-3917	PC	05Z
Service	Hardware Maintenance and Service for XT	6936-809	155									0520-3917	PC	05Z
Service	Insurance Communication Service	7798-ICS	nc										Information Network	N05C
Service	Public Utility Customer Service	5798-NQG	3465		315							12.0830-1159	System/34	15H
Service	RAMS II Student Service System	5796-BCR		1250	471							24.0520-6661	VSE, DL I, 5735-E91	15X
Service	Service of Process	5798-BTJ	616									0520-0364	5520	15X
Service	Service Level Reporter Version 2	5668-966		2150	815		1600	611	99	159		.GH19-6213	05/VS, MVS/XA	11K
-Service	Systems Library Subscription Service Mgt	5798-CTE	814		74							12.0821-2222	05/VS	11H
Services	Augmented Phone Services	6280-740	149										PC, XT, AT+VoiceComDpt	05Z
+Services	AT Co-processor Services	5669-057	550										SV21-8028 AIX tm on RT	05H
Services	CIPRE/Graphic Services	5787-GAF	36300		1650							.0320-9207	VM, MVS, VSE	25H
Services	Data Facility Data Set Services 2.2	5665-327			215			161	38	61		GC26-4123	Data Facility/Prodct	15K
+Services	Data Management Services	5669-059	500									SV21-8015	RT AIX tm	05H
Services	DPFX 3640 Presentation Services Exec	5660-267	2125		82	1665		70	19	30		GC31-0010	DPFX/BASE	15K
Services	Financial Services Terminal Support	5799-ARD			622							GH20-4531	D05/VS C1CS/VS	11C
Services	Financial Services Terminal Support	5799-ARE			795							GH20-4522	C1CS/05/VS	11C
-Services	IMS/V5 Message Format Services Training	5798-CKY	3190		242							.0821-1933	I1S, I1PS	1EH
Services	Member Services	6276-566	30										PC, XT, Jr, AT, 3270-PC	05R
Services	Network Services	7798-NET	nc										Information Network	N05C
Services	Personal Services / 370 Rel 2	5665-330		2400	800		1800	600	132	211		GC30-3292	DIS05S+C1CS+MVS	25K
Services	Personal Services / 370	5666-318		1125	375		843	281	99	158		GC30-3292	DIS05S+C1CS+VSE	25K
+Services	Print Services Facility/VM	5664-198	9230		355	5923		267				0544-3415	VM/3800, 3820	25M
+Services	Print Services Fac - 3820 Comm Attach	5664-198/01	4000		200	3000		150				0544-3415	4789, 4790, 6586, 6597	25M
+Services	Print Services Fac - 3800 Chan Attach	5664-198/02	13375		510	10031		383				0544-3415	4788, 4787, 6549, 6560	25M
+Services	Print Services Access Facility/VM	5664-312	3770		145							0544-3415	VM/3800/3820	25M
Services	Print Services Facility 3800 III Rel 1.1	5665-275		4260	200		3195	150	176	282		0544-3088	MVS	25K
Services	Print Services Access Facility Release 1	5665-340		700	120			60	96			0544-3099	MVS, XA+ISPF+3800/20	21K
Services	Print Services Facility Release 1.1	5666-319		2000	100			1500	75	120	192	0544-3088	VSE	25K
Services	Subsystem Support Services	5747-CC6	nc									GC30-3022	D05/VS, 05/VS, VSX	N05N
Services	System Support Services	5744-CJ1	nc									GC30-3022	SVS	N05S
Services	VSAM and Access Method Services Course	5798-BAN	2055									.0821-2518	I1S, I1PS	1EH

Keyword	Program Title	Number	OTC	ILC	MLC	DSO	DSI	DSH	MLP	MML	Mo	MoreInfo	Environment	TPLS
Services	3630 Plant Communication Host Services	5744-CR1	nc										GA24-3721 OS/VS	NO5X
Services	3640 Presentation Services - Transaction	5798-DMD	1455									.GB21-3042	5660-267	15X
Services	3650/3680 Language and Host Services 1.2	5668-912		4280	444		3210	333	110	176		GA27-3213	VSE,OS/VS+BTAM,VTAM	15K
Services	4700 Format Distribution Services V2	5799-BZD	16500		1470								4700 Host Support	15E
Services	4700 PC Application Services	6934-406	300									G221-2493	PC,XT	05H
Services/dates	Assistant Home Solutions	6024-150	69									.G520-3917	PC,XT,PCjr,PPC	05Z
-Services/PC	Personal Services/PC 1.04	6403-826	275										Upgrade to 6476053	05Z
+Services/PC	Personal Services/PC Upgrade to 1.2	6476-053	35										6403826	05M
+Services/PC	Personal Services/PC 1.2	6476-054	275										PC,XT,AT,3270-PC+10M	05M
Services/36	Personal Services/36	5727-HP3	3000										0580-0454 DisplayWrite/36	15A
+Services/36	Personal Services/36	5727-HP3	2250										0580-0570 System/36 PC	05H
Services/38	OFFICE/38 Personal Services/38	5714-HP3	6500	400	5720	352							OC09-1071 System/38	15A
Servicing	Customer Order Servicing - Shipping Mgmt	5668-906	14070	428									.GH19-6369, C1C5+VS+IMS or DL/I	15B
Servicing	Customer Order Servicing Data Management	5785-DCN	9710	294									.GB21-2633, DOS/VSE, OS/VS	15E
Servicing	Customer Order Servicing Order Management	5785-DCP	9710	294									.GB21-2633, DOS/VSE, OS/VS	15E
+Services	Transaction Processing Services Rel 1	5732-006	6140										SC34-0670 System/88	15M
+Servs/PC	Personal Servs/PC 1.04, Upg from 6317013	6403-827	35										PC,XT,AT,3270PC,PPC	05Z
Session	SSP Multiple Session RJE	5727-SS1/05	3600	217	3165								GC21-9021 4510,4511,4604	15A
Session	SSP Multiple Session Remote Job Entry	5727-SS6/03	1440		1080								0580-0570 4774	05H
Session	WESTAM (R) Communications Session Mgr	6428-162	350										.G520-3917 PC	05X
Sets	DPCX Relative Sequential Data Sets File	5798-DJJ	346										.GB21-2949 DPCX	15X
SEU	Utilities Subset	5726-UT2	330										GC21-9033 System/34	15A
+SFUN/Library	SFUN/Library	5669-106	1495										RT AIX	05Y
-Shadow	Shadow File Manager	5785-DEN	660									.G320-9174	DPPX/SP,5760-010	15X
Shaft	Mine Shaft (Feature 4092)	6024-092	35										.G520-3917 PCjr-DOS 2.1	05Z
Shared	APL VS Time Shared Input/Output Interfac	5798-DQE	3300										.G320-0365 MVS, XA+APL	15H
-Shared	Virtual System Time Shared I/O for VSAPL	5798-DEN		675	241								12.GB21-2741 TSO, VSAPL	15X
Shared	VSE/POWER Shared Spooling - Version 2	5666-273/01	1200		41				37	9	14		GH12-5131 6016,6017,6500	15K
Shared	VSE/POWER Shared Spooling Version 1	5746-XE3/02	1200		46	1080			42	9	14		GH12-5131 4565,4563,6503,6535	15K
Shared	VSE/SP POWER Shared Spool Feature	5666-296/01	1200		41	1080			37	9	14		4925,6507	15K
Shared	VSE/SP POWER Shared Spool Feature	5666-297/01	1200		41	1080			37	9	14		4924,4588,6508,6509	15K
Shared	VSE/SP POWER Shared Spool Feature	5799-BNB/03	1200		41	1080			37	9	14		4923,4956,4957	15K
Shared	VSE/SP POWER Shared Spool Feature	5799-BNC/03	1200		41	1080			37	9	14		4924,4980,4981,4588	15K
Sharing	Interactive File Sharing	5748-XXC			52				39	16	26		GC24-5195 VM/CMS	15K
Sharing	5218 Printer Sharing (Feature 4471)	6113-650	625										G570-2063 PC,XT	05Z
Sheet	Financial-Status P&L Balance Sheet Rel3	5668-968	5100	232									.GH20-2467 C1C5+IMS+PL/I	15B
Sheet	P&L and Balance Sheet Release 3	5746-F53	4375	199									.GH12-5120 C1C5+DL/I+PL/I	15B
Shipping	Customer Order Servicing - Shipping Mgmt	5668-906	14070	428									.GH19-6369, C1C5+VS+IMS or DL/I	15B
Shop	COPICS Shop Order Lead Analysis Reporting	5668-908	15430	469									.GH19-6356, C1C5+COBOL+IMS, DL/I	15B
Shop	COPICS Shop Order Release II	5798-DCQ	11490	372									.GB21-2648, DOS/VSE, OS/VS, DL/I	15E
Shop	DPPX 3640 Shop Floor Control System	5796-BBR		345									12.G320-6432 DPPX	15H
Short	Short Hand	6276-572	15										PC,XT,jr,AT,3270-PC	05R
Sh20-6406	Virtual Machine Interactive Executive	5799-BXN	47000										GH20-6410 VM+STIPS (5799-BXN)	35E
SID-86	SID-86 tm	6871-360	150										.GB30-2037 CP/M-86 or Concurrent	05Y
-Side-by-Side	3800 Side-by-Side Page Processor	5798-DFH	781	71									12.GB21-2816 OS/VS	15H
+Side-Swipe	Side-Swipe	6276-563	15										PC,XT,AT,PCjr,3270PC	05R
SIDEKICK	SIDEKICK tm	6187-190	85										.GB30-2037 PC,XT,AT,3270-PC	05Y
SIDEMAYS	SIDEMAYS tm	6187-192	70										.GB20-2037 PC,XT,3270-PC,AT	05Y
Sign	RPS PC Connectivity - Common Sign & Menu	5710-RTJ	550										.GB30-2428 5799-TGC+PC	15X
Sign	Sign Master tm (Feature 9242) Ver 5.05	6187-183	245										.GB30-2037 PC,XT,3270-PC,AT	05Y

Keyword	Program Title	Number	OTC	ILC	MLC	DSO	DSI	DSM	HLP	MML	Mo	MoreInfo	Environment	TPLS
Signature	Signature Verification	5798-DRK	16500		750							.3209-244	System/38	15H
Signatures	6670 Usability Aid	5798-DQF	5500		250							.G320-0368	VM#6670	15H
-Simulation	APL Econometric Planning Language	5796-PDW	2705		246							12.G320-5535	APLSV	1IH
Simulation	Dynamic Simulation Language/V5	5798-PXJ	10000		454							.G320-0357	VM,MVS,XT/370	15H
Simulation	Dynamic Simulation Language XT/370	5798-PXJ/01	1000		45								3044,3045	05C
Simulation	Engineering Simulation Program	6317-031	439									.G320-0821	PC,XT,AT+8087+FORTRA	05H
Simulation	General Purpose Simulation System V	5734-XS2	1515		69							.GH20-0825	OS,OS/VS	11C
Simulation	General Purpose Simulation System V	5736-XS3	1515		69							.GH20-0826	DOS, DOS/VS	11C
-Simulation	General Purpose Simulation System	5796-PIG	2175		99							24.G320-5745	5748-AP1	17H
-Simulation	General Purpose Simulation System	5796-PNH	5585		163							24.G320-6398	VM/CMS,MVS+PL/I	15H
Simulator	Batch Terminal Simulator	5668-948	9662	1030	394	7245	773	295	28	46		.GH20-5522	IMS/VS & TSO	15K
-Simulator	CICS/3270 Simulator	5798-AXC	781		71							.GB21-1002	CICS/OS/DOS/VS	0IH
-Simulator	DASD Seek Simulator	5798-CTD	1650									.GB21-2217	OS/VS	1IH
Simulator	DPPX Load Evaluation Simulator	5785-EDB	5280		240							.G320-9210	COBOL	15H
Simulator	Flight Simulator tm	6871-290	49									.GB30-2037	PC,PCjr	05Y
-Simulator	Local Display Terminal Simulator	5798-DMQ	3300									.GB21-3066	DOS/VSE	15X
Simulator	Storage Tube Simulator	5668-820	2750		300							.GC34-4033	VM+GDDM+FORTRAN	15E
Simulator	Teleprocessing Network Simulator 2.3	5662-262			1875							.GH20-2487	MVS, XA, VM	1IE
Simulator	Teleprocessing Network Simulator Ver 1	5740-XT4			1840							.GH20-1907	OS/VS	1IB
+Simulator	3090 Vector Facility Simulator	5798-DHF	9500									.GC23-0360	VM	15H
-Simultaneous	Simultaneous Printing 3650 Transactions	5798-CZK	297		27							12.GB21-2469	DOS/VS	15H
+Single	Graphics CP 3.2, Single update from 3.1	1887-961	nc										GCP 3.1	N05M
+Single	Multiple Applicatns from a Single Screen	5785-EDH	8000		365							.G320-9511	VTAM+MVS	15H
SIPO/E	VM/SP System Offering 4.0	5750-AAK	varies									.GC20-1890	VM/SP	VO5E
-Site	Central Site Maintenance	5798-RBD	505		101							06.GB30-1494	System/34	15H
-Site	Universal Billing - Site	5799-TDR	1875		84								5799-TDT	05C
+Six-pack	PC Network Remote Control (Six-pack)	6276-562	99										NETBIOS+PC,XT,AT	05R
Skills	Assessing Personal Management Skills	6871-527	88										PC	05Y
Skills	Capitalization Skills	6024-085	55									.G520-1107	Private Tutor 2.00	05Z
Skills	English Communications Skills II	5796-BBI	5080		385							.G320-6433	IMS, IIPS	1EH
Skills	Language Skills	6024-084	55									.G520-1107	Private Tutor 2.00	05Z
Skills	Math Computation Skills (Private Tutor)	6024-305	55									.G520-1107	PC,PCjr,XT,AT,PPC	05Z
Skills	Punctuation Skills	6024-083	55									.G520-1107	Private Tutor 2.00	05Z
Skills	Reading Comprehension Skills (Priv Tutor)	6024-325	55									.G520-1107	PC,PCjr,XT,AT,PPC	05Z
Skills	Spelling Skills	6024-086	55									.G520-1107	Private Tutor 2.00	05Z
Skills	Vocabulary Building Skills (Priv Tutor)	6024-326	55									.G520-1107	PC,PCjr,XT,AT,PPC	05Z
Skills	Word Knowledge Skills (Private Tutor)	6024-327	55									.G520-1107	PC,PCjr,XT,AT,PPC	05Z
SL-MATH	Mathematics - Subroutine Library	5736-XX7	3035		138							.GH12-5103	OS/VS, DOS/VS	15C
-Slides	Color Text Presentation Facility	5798-DMZ	1210									.GB21-3086	3279+GDDM+5748-AP1	15X
+Slides	Special Effects with Slides	6276-631	25										PC,XT,PCjr,AT,color	05R
SlideWrite	SlideWrite	6317-034	225									.G520-1107	All except PCjr	05Z
SLR	Service Level Reporter Version 2	5668-966		2130	815			1600	611	99	159	.GH19-6213	OS/VS, MVS/XA	11K
-SLSS	Systems Library Subscription Service Mgt	5798-CTE	814		74							12.GB21-2222	OS/VS	1IH
Small	Small System Executive / VSE	5666-265	20000		1315	15000			922	123	197	.GC33-6143	4300	25K
SMART	Realtime Monitor	5796-PNA	1000		50							.G320-6165	VM/CMS	15E
+SmarTerm	SmarTerm tm 100 1 5.25" diskette	5669-074	165										CS05 1.13	05X
+SmarTerm	SmarTerm tm 100 1 8" diskette	5669-074/01	165										4510	05X
SmarTerm	SmarTerm tm 100 on 8" diskette	6294-109	165									.GC22-9269	CS05	05H
SmarTerm	SmarTerm tm 100 VT-52,VT-100,VT101,VT102	6294-110	165									.GC22-9269	CS05+5.25" diskette	05H
SmarTerm	SmarTerm 100 tm (DEC.VT52,VT100,1,2,EDT)	6871-489	149									.GB30-2037	PC,XT,3270-PC	05Y

Keyword	Program Title	Number	OTC	ILC	HLC	DSO	DSI	DSH	HLP	MHL	Mo	MoreInfo	Environment	TPLS
-SMF	Mass Storage Trace SMF Correlation Aid	5796-PJX	3010		137							24.G320-5810	OS/VS,MVS/XA	11H
-SMF	SMF Graphical Analysis Program	5796-AFP			200							12.G320-8127	OS/VS, MFT,MVT	11H
SMF	SMF Job Data Compression Aid	5796-PHN	4290		187							.G320-5714	OS, OS/VS, MVS/XA	11X
-SMF	SMF Problem Program Activity Report	5798-CPP	968		88							12.GB21-2089	MVS	11H
SMP/E	System Modification Program Extended	5668-949		1920	380		1440	285	97	155		GC28-1106	OS/VS,MVS/XA	15K
SMU	DL/I Space Management Utilities	5796-PKF	2290		111							.G320-6072	D0S/VS DL/I	15E
+SNA	Advanced Program-to-Program Communicatns	5732-025	8000									GX34-1000	5732-028+5732-010	15M
SNA	Batch SNA Communications	6428-147	385									.G320-9186	PC	05H
+SNA	Communications & Systems Management	5732-026	5000									GX34-1000	5732-027+5732-010	15M
+SNA	EDX Primary SNA 1.0	5719-XT4	2995		214								Series/1	15M
SNA	EDX Systems Network Architecture	5719-SX1	2005		75							SC34-0402	Series/1	15X
SNA	EDX Systems Network Architecture RJE	5719-SX2	1000		34							SC34-0402	Series/1	15X
SNA	Insurance Communication Service	7798-ICS	nc										Information Network	N05C
+SNA	Primary Systems Network Architecture	5732-028	4500									GX34-1000	5732-027	15M
SNA	Remote Spooling Communications / SNA	5798-DMJ	4250									GB21-3050	VM/RSCS	15X
SNA	RPS SNA Remote Management Utility	5799-TEF	220		9							GC34-1711	Series/1	15E
+SNA	Secondary Systems Network Architecture	5732-029	5500									GX34-1000	5732-027	15M
-SNA	System/38 to S/1 Communication Utility	5798-RDY	605		55							12.GB30-1579	System/38	15H
+SNA	Systems Network Architecture Interface	5732-027	3000									GX34-1000	System/88	15M
+SNA	SNA Application Monitor	5665-345	9000			7650							MVS+VTAM 2 or 3	25E
+SNA	SNA Cluster Controller Release 1	5732-021	8100									SX34-0173	SDLC Protocol Suppt	15M
+SNA	X.25 SNA Interconnection	5799-BZJ	37200										MVS	25M
+SNA	X.25 SNA Network Supervisory Function	5799-MYE	nc										XI (5799-BZJ)	N25M
SNA	3270 Device Emulation SNA	5799-BGH											System/34	05X
SNA	3270 Emulation & SNA RJE Support	6024-036	769									0520-3917	PC	05Z
-SNA	3270-PC Emulation Upgrade from SNA 3270	59X9-981	75										6322526	05Z
SNA dialup	Batch SNA Communications	6428-147	385									.G320-9186	PC	05H
+SNA-3270	SNA-3270 Terminal Emulation Release 1	5732-020	2200									SX34-0173	5732-010+5732-021	15M
SOCRATES	EPIC - SOCRATES Online Maint System	5796-AQH				220						12.G320-5814	D0S/VS,CICS/VS	15H
SOEMI	Serial OEM Interface Access Method	5664-201	2500		139							GA33-1585		25E
SOEMI	Serial OEM Interface	5666-330	2500		139							GA33-1585		25E
-Softcopy	Softcopy - a CADAM (R) Drawing Viewer	5796-PNP	7630		347							.G320-6388	MVS,VM+3277GA	15E
+Software	Workstation Publishing Software tm	5669-086	1995									SV21-8084	RT AIX	05Z
+Software	XENIX tm Software Development System 2.0	59X9-939	599									SV21-8078	XENIX 2.0	05Z
Software/2	EDX Controlled Access System Software/2	5796-RNP	9350									.G320-9156	Series/1	25X
+Solids	CATIA (R) Solids Geometry 2.2 Unltd CSTU	5668-834		1725	575		12154050						CATIA Base	15E
+SOLIDS	UNIRAS tm RASPAC SOLIDS	5669-101	4995										RT AIX	05Y
+SOLITAIRE	SOLITAIRE	6276-565	15										PC,XT,AT,3270AT	05R
+SOLOMON	SOLOMON III tm General Ledger	5669-088	995									SV21-8041	RT AIX	05Z
+SOLOMON	SOLOMON III tm Accounts Receivable	5669-089	995									SV21-8041	General Ledger	05Z
+SOLOMON	SOLOMON III tm Accounts Payable	5669-090	995									SV21-8041	General Ledger	05Z
+SOLOMON	SOLOMON III tm Payroll	5669-091	995									SV21-8041	General Ledger	05Z
+SOLOMON	SOLOMON III tm Purchasing	5669-092	995									SV21-8041	Accounts Payable	05Z
+SOLOMON	SOLOMON III tm Order Entry/Invoicing	5669-093	995									SV21-8041	Accounts Receivable	05Z
+SOLOMON	SOLOMON III tm Job Costing	5669-094	1395									SV21-8041	General Ledger	05Z
+SOLOMON	SOLOMON III tm Fixed Assets	5669-095	995									SV21-8041	General Ledger	05Z
+SOLOMON	SOLOMON III tm Sales Analysis	5669-096	595									SV21-8041	OrderEntry/Inventory	05Z
+SOLOMON	SOLOMON III tm Inventory	5669-097	995									SV21-8041	General Ledger	05Z
+SOLOMON	SOLOMON III tm Address and Mail List	5669-098	395									SV21-8041	General Ledger	05Z
+SOLOMON	SOLOMON III tm Database Reporter	5669-099	995									SV21-8041	General Ledger	05Z
Solutions	Accounting Solutions	6024-152	89									.G520-3917	PC,XT,PCjr,PPC	05Z

Keywords - Alphabetic Sequence

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Codes Explained in Appendix B

Keyword	Program Title	Number	OTC	ILC	MLC	DSO	DSI	DSH	MLP	MML	Mo	MoreInfo	Environment	TPLS	
Solutions	Assistant Home Solutions	6024-150	69									.0520-3917	PC,XT,PCjr,PPC	05Z	
Solutions	Executive Solutions	6024-151	69									.0520-3917	PC,XT,PCjr,PPC	05Z	
Solutions	Planning Assistant Solutions	6024-135	99									.0520-1107	PC,PCjr,XT,AT,PPC	05Z	
Solver	CAEDS (R) Finite Element Solver	5796-BDW	26470	3655	941	19800	2400	620				0520-3935	5796-BBZ+3277GA,3251	15E	
+Solver	CAEDS Integrated Finite Element Solver	5713-AAE	varies		485								Base	V15E	
Solving	Solving Math Word Problems (Priv Tutor)	6026-308	55										0520-1107	PC,PCjr,XT,AT,PPC	05Z
Sonoran	Sonoran Sans Serif tm(Source or Object)	5771-ABB	640										0544-3088	PSF+3800/20/3812	25E
Sonoran	Sonoran Serif (Source or Object)	5771-ABA	640										0544-3088	PSF+3800/20/3812	21E
+Sonoran	3812 Fonts - Sonoran Serif	5669-161	640											3812 Font Mgt System	05H
+Sonoran	3812 Fonts - Sonoran Sans Serif	5669-162	640											3812 Font Mgt System	05H
Sonoran Petite	Pi and Specials tm (Source or Object)	5771-ABC	480										0544-3088	PSF+3800/20/3812	21E
Sort	Check Processing / Sort 3694	5798-RKG	440										.0B30-1853	S/34 + 5748-F53	15X
Sort	CMS Sort Plus Extensions XT/370	5798-BDW/02	132											3037	05C
Sort	CPCS Sort Table Generator	5798-DNG	15200		600								.0B21-3104	MVS,VS1	15H
Sort	Data Facility Sort 1.8	5740-SM1		247				185	19	30			.0C33-4033	VS1, MVS,XA	15K
Sort	MICR Document Fine Sort	5798-BCN	2210		201								12.0B21-1327	DOS/VS	11H
Sort	Sort	5798-BDN	1025										.0B21-1376	VM/CMS	15H
Sort	Sort Extensions	5798-BDW/01	nc										.0B21-1376	4606	N15H
Sort	Sort Preparation Facility 3694	5798-RQZ	825										.0B30-2238	System/36+5748-F53	15X
Sort	Sort Version 1	6024-138	189										0520-3917	PC	05Z
Sort	3890 Cycle Sort	5798-CQX	4925		448								12.0B21-2165	DOS/VS, 5798-BDC	15H
Sort	3890 DOS/VSE Offline Fine Sort II	5798-CFB/01			88								12.0B21-1662	9560	15H
Sort	3890 Offline Sort Enhancements	5798-BDY	3140										.0B21-1383	OS/VS	15H
Sort	3890 Offline Sort	5798-CFD	1635										.0B21-1662	DOS/VS+5798-BDC	15H
Sort	3890 Online Fine Sort Enhancements	5798-CYF			185								12.0520-6329	5798-CRC and CPCS	15H
Sort	3890 Online Fine Sort - CPCS	5798-CRC	10890		990								12.0B21-2170	OS/VS	15H
Sort	3890 Online Fine Sort - DOS/VS	5798-CHR	10210		929								12.0B21-2276	DOS/VS DOS/VSE Rel	15H
Sort	3890 Statement Preparation Sort	5796-ALP	3630		330								12.0520-5715	OS/VS1	15H
Sort/Merge	CPS Sort/Merge	5799-TAT	138		6								24 SC34-1560	Series/1	15C
Sort/Merge	DPPX Sort/Merge	5760-SM1	1000		39	850			33	16	26		.0C26-3931	DPPX	15K
Sort/Merge	EDX Sort/Merge	5719-SM2	360		12								GL23-0015	Series/1	15X
Sort/Merge	RPS Sort/Merge	5719-SM1	315		10								0C34-0239	Series/1	15X
Sort/Merge	Sort/Merge	5734-SM1	1600		66								0C33-4022	OS/MFT/MVT	15C
Sort/Merge	Sort/Merge	5743-SM1	800		43								0C33-4020	DOS	15C
Sort/Merge	Sort/Merge	5746-SM1	1600		72								0C33-4030	DOS/VS	15C
Sort/Merge	Sort/Merge Version 2	5746-SM2			108								0C33-4043	DOS/VS, VSE, VM/SP	15K
Sort/Merge	SSX/VSE Sort/Merge	5799-BNF/06	955		58	859							4876,4877,4878,4879	25X	
Sound eff	Gertrude's Secrets	6024-097	49										0520-3917	PC,XT,PCjr+Color	05Z
Sound generator	Programmed Inquiry Learning or Teaching	6316-973	219										.0520-1107	PC,XT,AT,PPC,PCjr	05H
Source	APL2 Fonts (Source or Object)	5771-ADB	160										0544-3088	PSF+3800/20/3812	21E
Source	CADAM (R) APT Source Geometry	5796-BDT	21000	1605	535	14000	1065	353						OS/VS+GAM	15E
Source	Data Fonts (Source or Object)	5771-ADA	160										0544-3088	PSF+3800/20/3812	21E
Source	EDX Energy Mgt - Optional Source Code	5796-RJT/02	308											3014	15H
Source	EDX Energy Mgt - Source Code for Interfc	5796-RJT/03	30											3015	15H
Source	Pi and Specials tm (Source or Object)	5771-ABC	480										0544-3088	PSF+3800/20/3812	21E
Source	Sonoran Serif (Source or Object)	5771-ABA	640										0544-3088	PSF+3800/20/3812	21E
Source	Source Archive	5798-RFD	378										.0B30-1630	System/38	15X
Source	Source Compare Audit Utility	5796-PLZ	2640		100								.0320-6163	VS1 VM/CMS MVS	11H
+Source	Source Maintenance System	6276-568	25											PC,XT,AT,PCjr	05R
Source	Source Program Maintenance Online	5798-CFT	5355		226								.0B21-1696	CICS/VS	15E

Keyword	Program Title	Number	OTC	ILC	MLC	DSO	DSI	DSM	MLP	MML	Hq	MoreInfo	Environment	TPLS				
-Source	Tools for Application Source Translation	5798-RJA	13660			620						.GB30-2027	System/304	15X				
Source	VTAM Node Control Applicatn Source Code	5785-EEC/01	nc									.GB21-3052	6000,6001	N15X				
+Source	4680 General Sales Applic Source Code	5669-031/01	10000									SC30-3367	7898	15M				
Sourcecode	Plant Automation Communic - Sourcecode	5798-DRX/01	6600			30							3000,3046	15H				
+Sourcecode	4680 Supermarket Application Sourcecode	5669-032/01	10000									GC20-3371	4643,7898	15M				
Souvenir	ITC Souvenir tm Version 2	5771-ACC	960									0520-0004	CDPF	15E				
Souvenir	ITC Souvenir tm Upgrade from Ver 1 to 2	5771-ACC/01	320										4522	B15E				
Souvenir	4250 ITC Souvenir tm	5771-AAQ	640									0520-0004	CDPF (5668-997)	11E				
Space	Data Set & Free Space Manager	5796-PPN	1385			105						.G320-6654	MVS	15X				
Space	DL/I Space Management Utilities	5796-PKF	2290			111						.G320-6072	DOS/VS DL/I	15E				
Space	IMS/DBI Full Function Space Mgt Utility	5668-856/01	5555										4738	25E				
Space	SSX/VSE VSAM (Incl Space Mgt+Backup/Res)	5799-BNF/02	1480			91	1330		82				4856,4857,4858,4859	25K				
Space	VSE VSAM Space Management for SAM	5746-AMZ/01				44			40	9	14	GC24-5143	6074,6507	15K				
Space	VSE/SP VSAM Space Management Feature	5666-316/04	713			42	641		38					15				
Space	VSE/SP VSAM Space Management Feature	5799-BNR/05	621			38	560		34				4929,4961	15K				
Space	VSE/SP VSAM Space Management Feature	5799-BNC/05	713			44	641						4940,4985	15K				
Spanish	DisplayWrite/36 Spanish Dictionary	5727-HP2/03	120				105						4763,6064	15A				
Spanish	DW/36 Spanish Dictionary	5727-HP7/04	90									0580-0570	4787	05H				
Spanish	Word Perfect tm (Spanish Version)	6205-276	495									.GB30-2037	PC,XT,AT,3270-PC	05Y				
SPE	FORTRAN VS - Interactive Debug 2.0 SPE	5668-903				1920	320					1397	240	26	42	GC26-4114	MVS,VMM5748-F03+M5	15K
Spec	Initial Graphics Exchange Spec Processor	5668-904	26600			2400	800						5374LM3+5796ATC+ATJ	15E				
Special	DPPX 3640 Special Support Subroutines	5798-DEJ	484			44						12.GB21-2719	8100/DPPX-COBOL	15H				
Special	Energy Special Feature	5719-U14/01	2740			90						48.GH30-0094	6000,6001	15C				
Special	Energy 3 Special Feature	5719-U12/01	2740			90						48.GH30-0094	6000,6001	15C				
Special	Membership Special Events	5796-ZJJ	3300									.GB30-2401	5796-ZJE	15X				
+Special	Special Effects with Slides	6276-631	25										PC,XT,PCjr,AT+color	05R				
Special	Special Events - Trade Assn	5796-ZJD	3300									.GB30-2352	5796-ZJZ	15X				
Special	Special Realtime Operating System	5799-AHE	60660			5515						12.SH20-1773	V51	21B				
Specialization	Plants: Growth & Specialization	6024-321	65									0520-1107	PC,PCjr,XT,AT,PPC	05Z				
Specialization	Plants: Growth & Specialization	6024-392	295									0520-1107	PC,PCjr,XT,AT,PPC	05Z				
-Specialized	Specialized Terminal Interface Processor	5798-RBQ	2900			132						24.	Series/1	15H				
Specials	P1 and Specials tm (Source or Object)	5771-ABC	480									0544-3088	PSF+3800/20/3812	21E				
+Specials	3812 Fonts - P1 and Specials	5669-163	480										3812 Font Mgt System	05H				
+Speech	Electronic Grammer (Parts of Speech)	6276-592	25										PC,XT,AT,PCjr	05R				
+Speech	Parts of Speech Series: Grades 3-4	6024-333	100									0520-1107	PC,XT,AT,PCjr+color	05Z				
+Speech	Parts of Speech Series: Grades 5-6	6024-334	100									0520-1107	PC,XT,AT,PCjr+color	05Z				
+Speech	Parts of Speech Series: Grades 3-4	6024-378	450									0520-1107	PC,XT,AT,PCjr+color	05Z				
+Speech	Parts of Speech Series: Grades 5-6	6024-379	450									0520-1107	PC,XT,AT,PCjr+color	05Z				
Speed	IMS/DBI High Speed Sequential Retrieval	5668-856/02	8645										4739	25E				
+Speed	Ratio Reasoning: Crystals and Speed	6024-473	75										128k+color	05G				
SPEED	SPEED READER II tm	6871-441	69									.GB30-2037	PC,XT,3270-PC,PCjr	05Y				
+Spell	Private Tutor Series - Spell Facts	6276-627	20									6024113	or 6276602	05R				
-Spelling	Legal Extended Spelling Dictionary	5608-SRB	195										Textpack 6	05E				
Spelling	Spelling Series: Grades 1-2	6024-347	110									0520-1107	PC,XT,AT,PCjr+color	05Z				
+Spelling	Spelling Series: Grades 3-4	6024-348	110									0520-1107	PC,XT,AT,PCjr+color	05Z				
Spelling	Spelling Series: Grades 5-6	6024-349	110									0520-1107	PC,XT,AT,PCjr+color	05Z				
+Spelling	Spelling Series: Grades 1-2	6024-380	495									0520-1107	PC,XT,AT,PCjr+color	05Z				
Spelling	Spelling Series: Grades 3-4	6024-381	495									0520-1107	PC,XT,AT,PCjr+color	05Z				
+Spelling	Spelling Series: Grades 5-6	6024-382	495									0520-1107	PC,XT,AT,PCjr+color	05Z				
Spelling	Spelling Skills	6024-086	55									0520-1107	Private Tutor 2.00	05Z				

Keywords - Alphabetic Sequence

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Codes Explained in Appendix B



Keyword	Program Title	Number	OTC	ILC	MLC	DSO	DSI	DSH	MLP	MML	Mo	MoreInfo	Environment	TPLS
Spelling	Symphony Spelling Checker	6187-251	139									.GB30-2037	Symphony tm	05Y
Spelling check	WordStar Professional tm	6871-407	695									.GB30-2037	PC,XT,3270-PC,AT	05Y
+Sperry	Chi Sperry Emulation	1596-802	795									6570-2231	PC,XT	05E
SPF	PANVALET tm (SPF)	7798-PAN	varies										TBM information Net	V05E
SPF	Structured Programming Facility	5740-X18	18360		630							.GH20-1974	05/V52	11X
SPF	System Productivity Facility	5668-009						180	48	77		.GC34-2039	Superseded by ISPF	15C
SPM	Accounts Payable - Construction SPM	5726-M62	1625		78							.GH30-0707	System/36	11C
SPMOL	Source Program Maintenance Online	5798-CFT	5355		226							.GB21-1696	CICS/V5	15E
SPMOL	SPMOL with Auditing and Archiving	5798-CFT/01	1575		70							.GB21-1696	6005,6050	15E
Spool	DPX Spool Output Transcription	5798-DHM	660									.GB21-2926	DPX	15X
Spool	HASP-JES2 Spool Transfer Program	5798-CJK	3165		480							.GB21-1903	05/MFT/MVT/SVS/MVS	01H
Spool	Print Spool	5715-SP1	175									.GC34-0500	Sys/23 Datamaster	11X
Spool	Spool Display and Search Facility	5798-DGN	1650									.GB21-2865	MVS,MVS/XA	15H
Spool	VSE/SP POWER Shared Spool Feature	5666-296/01	1200		41	1080			37	9	14		4923,6507	15K
Spool	VSE/SP POWER Shared Spool Feature	5666-297/01	1200		41	1080			37	9	14		4924,4588,6508,6509	15K
Spool	VSE/SP POWER Shared Spool Feature	5799-BNB/03	1200		41	1080			37	9	14		4923,4956,4957	15K
Spool	VSE/SP POWER Shared Spool Feature	5799-BNC/03	1200		41	1080			37	9	14		4924,4980,4981,4588	15K
Spooled	Virtual Spooled Reader Display	5796-AYK	1055									.G320-6338	VM/CMS	15H
Spooling	CPS Disk Spooling	5799-TAY	72		3						24	.GC34-1563	Series/1	15C
Spooling	Print Spooling System for CICS/V5	5785-DCH	3365		255							.GB21-2970	D05/VSE,MVS,CICS/V5	15X
Spooling	POWER/VSE Version 2	5666-273		498	166			447	149	33	53	.GC33-6168	VSE/AF Version 2	15K
Spooling	Remote Spooling Communications Subsys V2	5669-188	6300		357	5355			287	38	61	.GH24-5055	VM	15K
Spooling	Remote Spooling Communication Subsystem	5796-PXF	3850		111				83	38	61	.GH24-5006	VM/SP	15K
Spooling	Remote Spooling Communications / SMA	5798-NMJ	4950									.G320-0323	VSE/VM6670 line dvr	15X
Spooling	VSE/POWER Shared Spooling - Version 2	5666-273/01			41				37	9	14	.GH12-5131	6016,6017,6500	15K
Spooling	VSE/POWER Shared Spooling Version 1	5746-YES/02	1200		46	1080			42	9	14	.GH12-5131	4565,4563,6503,6535	15K
Sports	Sports Trivia from Billiards to Baseball	6276-608	20										PC,XT,Jr,AT,3270-PC	05R
Spotlight	Spotlight tm	6187-284	75									.GB30-2037	PC,XT	05Y
SPPS	3650 Programmable Store System SPPS	5747-CJ2	nc									.GC30-9535	D05/V5	N05J
SPPS	3650 PSS SPPS II	5744-DA1	nc									.GC30-9535	05/V5	N05J
SPPS II	3650 Subsystem Program Prep Support II	5735-D16		1605	577			1200	433	28	45	.GC30-9524	D05/VSE,05/V5	15K
Spreadsheet C	OXYCALC (R)	5796-PWG	8000									.G320-9167	VM,MVS+GDDM	15X
Spreadsheet	Electric Desk tm	6187-242	345									.GB30-2037	PC,XT,3270-PC,AT	05Y
Spreadsheet	Electronic Spreadsheet	5798-RRM	577									.GB30-2343	System/36	15X
-Spreadsheet	Financial Planning and Modeling	5796-ZFD	2970									.GB30-2249	System/38	15X
-Spreadsheet	Financial Planning and Modeling	5796-ZGN	2530									.GB30-2251	System/36	15X
-Spreadsheet	Financial Planning and Report Generating	5796-ZHT	385									.GB30-2340	UCSD p-System tm R/D	05Y
Spreadsheet	Framework II tm	6187-185	695									.GB30-2037	PC,XT,3270-PC,AT,RT	15X
+Spreadsheet	Personal Decision Series, Upg to Plans+	6317-004	170										Plans	05Z
Spreadsheet	Personal Decision Series - Plans Edition	6410-939	165										Data Edition	05G
Spreadsheet	SuperCalc3 (R) (Feature 9431)	6187-170	69									.GB30-2037	PC3	05Y
Spreadsheet	Symphony tm (Feature 9448)	6187-187	695									.GB30-2037	PC,XT,PPC	05Y
+Spreadsheet	THE FIX Online Spreadsheet Interface	5793-AGW/03	250									.GB20-2037	6597	05Y
Spreadsheet	1-2-3 tm	6871-325	495									.GB20-2037	PC,XT,AT,RT	05Y
SQCpack	SQCpack tm	5793-AEZ	595									.GB30-2037	5531,7531,7532	05Y
SQL	APL2 Release 2	5668-899	14000	4170	695	12600	3126	521	37	59		.GH20-9214	VM, MVS, XA	15K
SQL	Batch Terminal Simulator	5668-948	9662	1030	394	7245	773	295	28	46		.GH20-5522	IMS/V5 & T50	15K
SQL	Decision Support / VSE 1.1	5666-311	3075		182	2770		164	19	31		.GC33-6212	SSX,VSE	25K
+SQL	Structured Query Language/RT Data Base	5669-058	1000									.SV21-8033	RT AIX+Data Mgt	05H

Keyword	Program Title	Number	OTC	ILC	MLC	DSO	DSI	DSH	MLP	MML	Mo	MoreInfo	Environment	TPLS
SQL	SQL / Data System - Relational Structure	5748-XXJ			464			347	144	230		.GH24-5012 D05/VSE, SSX/VSE, VM		25K
+SQL	VM Interpreter Interface to SQL	5798-DXT	4900		225							.G320-9508 VM-SQL		15H
SQL/DB2	Info Center/1	5668-897	22000		1390	18000		1040				.GH20-0398. VM, MVS		15E
SQL/DS	APL2 Release 2	5668-899	14000	4170	695	12600	3126	521	37	59		.GH20-9214 VM, MVS, XA		15K
SQL/DS	Data Base Edit	5798-DLL	6050									.G320-9195 SQL/DS+VM		15H
SQL/DS	Decision Support / VSE 1.1	5666-311	3075		182	2770		164	19	31		GC33-6212 SSX, VSE		25K
SQL/DS	Query Management Facility	5666-292		4280	642		3850	577	89	142		.GH24-5033 SQL+5746-XX3+GDDM		25K
SQL/DS	Structured Query Language/Edit	5798-DPJ	2750									.G320-9184 SQL/DS		15X
SQL/DS	SQL/DS Relational Design Tool	5798-DQL	4400									.G320-0654 VSE, VM		15H
SQL/DS 3.5	SQL / Data System - Relational Structure	5748-XXJ			464			347	144	230		.GH24-5012 D05/VSE, SSX/VSE, VM		25K
SQL/Edit	Structured Query Language/Edit	5798-DQY	3850									.G320-0348 VM+SQL/DS		15H
Square root	FORTRAN Elementary Math Library	5799-BTB	300									.GH20-5370 VM, MVS+FORTRAN		15E
SSP	ACF/System Support Programs Version 3.2	5664-289			960	320		720	240	44	70	GC23-0108 37/05/20/25+VM		25K
SSP	ACF/System Support Programs Version 3.2	5665-328			1605	535		1200	400	71	114	GC23-0108 37/05/20/25+MVS, XA		25K
+SSP	ACF/System Support Programs Version 3.2	5666-326			321	107		240	80	27	43	GC23-0108 37/05/20/25+VSE		25K
SSP	Scientific Subroutine Package	5798-MYD	800									.GB30-1563 Series/1 + FORTRAN		15X
SSP	System Support Program	5726-SS1	4500		187	3375		140				GC21-7702 System/34		15X
SSP	System Support Program Subset Preconfig	5726-SS2	900									GC21-9032 System/34		15A
SSP	System Support Program	5727-SS1	4000		268	3520						GC21-9021 System/36		15A
SSP	System Support Program	5727-SS6	995			746						G580-0570 System/36 PC		05H
+SSP	SSP (5360/62) 3278 Emulation on PC	5727-SS1/15	2250		150	1980						6080, 4880, 4869, 4870		15A
+SSP	SSP (5364) 3278 Emulation on PC	5727-SS6/07	900			675						6091, 6093, 4873		15A
+SSP	SSP Additional Support	5727-SS1/12	500		40	440						6101, 4931, 4932, 4933		15A
+SSP	SSP Automatic PTF Distribution	5727-SS1/11	285									4973		15E
SSP	SSP Automatic PTF Distribution	5727-SS6/06	155									G580-0570 4798		05H
SSP	SSP Automatic PTF Distribution	5727-SS6/06	155									G580-0570 4798		05H
SSP	SSP Communications Feature	5727-SS1/02	nc									GC21-9021 4504, 4505, 4601		N15A
SSP	SSP Communications & System Mgt	5727-SS1/08	1000		53	875						GC21-9021 4536, 4537, 4662		15A
SSP	SSP Communications and System Mgt	5727-SS6/04	750			562						G580-0570 4775		05H
SSP	SSP Communications and System Mgt	5727-SS6/04	750			562						G580-0570 4775		05H
SSP	SSP Data Encryption Std for Banking	5727-SS1/06	200			175						GC21-9021 4512, 4605		15A
+SSP	SSP Display Station Pass-Through	5727-SS1/14	500		40	440						6079, 4687, 4688, 4689		15A
SSP	SSP Distributed Disk File Facility	5727-SS1/07	3000		171	2640						GC21-9021 4514, 4515, 4606		15A
SSP	SSP Distributed Data Management	5727-SS1/09	2500		165	2200						4733, 4734, 6054		15A
SSP	SSP Distributed Data Management	5727-SS6/05	1875			1406						G580-0570 4776		05H
SSP	SSP Distributed Data Management	5727-SS6/05	1875			1406						G580-0570 4776		05H
SSP	SSP Extended Feature	5727-SS1/01	1150		68	1010						GC21-9021 4503, 4502, 4600		15A
SSP	SSP Interactive Communications Feat	5727-SS1/03	4300		383	3785						GC21-9021 4506, 4507, 4602		15A
SSP	SSP Interactive Communications Feature	5727-SS6/01	3225			2418						G580-0570 4772		05H
SSP	SSP Interactive Communications Feature	5727-SS6/01	3225			2418						G580-0570 4772		05H
SSP	SSP Multiple Session RJE	5727-SS1/05	3600		217	3165						GC21-9021 4510, 4511, 4604		15A
SSP	SSP Multiple Session Remote Job Entry	5727-SS6/03	1440			1080						G580-0570 4774		05H
SSP	SSP Multiple Session Remote Job Entry	5727-SS6/03	1440			1080						G580-0570 4774		05H
+SSP	SSP Tape Support	5727-SS1/13	400		30	352						6102, 4934, 4935, 4936		15A
SSP	SSP 3270 Devive Emulation	5727-SS6/02	1100			825						G580-0570 4773		05H
SSP	SSP 3270 Devive Emulation	5727-SS6/02	1100			825						G580-0570 4773		05H
SSP	SSP 3270 Emulation Feature	5727-SS1/04	2500		263	2200						GC21-9021 4508, 4509, 4603		15A
SSS	Subsystem Support Services	5747-CC6	nc									GC30-3022 D05/VS, 05/VS, SSX		N05N
SSS	System Support Services	5744-CJ1	nc									GC30-3022 SVS		N05S
Stabilized	OS/V51 Release 7	5652-V51	nc									GC30-3057 S/370 Stabilized		N25J

Keyword	Program Title	Number	OTC	ILC	MLC	DSO	DSI	DSH	MLP	MML	Mo	MoreInfo	Environment	TPLS
-Staging	3650 Retail Transaction Staging	5798-DDQ	2595		236							12.GB21-2703	OS/VS,VSE 5748-D14	15H
STAIRS	Storage & Information Retrieval System	5664-189		1650	575			1235	375			.GH12-5147	VM-I5PF,XT/370	15M
-STAIRS	STAIRS to ATMS Transfer Extended	5798-DEE	1265		115							12.GB21-2731	CICS/OS-D05/VS	15H
STAIRS	STAIRS Input Formatter	5740-XY9/02	5760		262							.GH12-5124	6109,6232	25A
STAIRS	STAIRS XT/370	5664-189/01	660		30								3003,3004	05C
STAIRS/VS	Storage & Information Retrieval System	5740-XR1	28160		1280							.GH12-5114	OS/VS,CICS/VS,IMS/VS	25B
STAIRS/VS	Storage & Information Retrieval System	5746-XR4	22990		1045							.GH20-1832	CICS/D05/VS	25B
STAIRS/VS	STAIRS/VS Thesaurus Retrieval	5799-AQK	10070		458							.GH20-1908	OS/VS+5799-AQL	15B
STAIRS/VS	STAIRS/VS Thesaurus Generator	5799-AQL	4220		192							.GH20-1908	OS/VS+STAIRS	15C
-STAIRS/VS	STAIRS/VS Training Course	5796-PLF	3300		250							.G320-6078	IIS,IIPS	iEH
Standalone	CATIA (R) Basic 3D Design - Standalone	5668-828			1035							.G320-6650	Replaced by 5668-761	TISE
Standalone	CPS Standalone Disk Utilities	5719-SC2	nc									.GC34-0070	Series/1	H05C
Standalone	Waterloo PC Network Standalone Server	5793-AAH	1650									.GB30-2411	D05+RPS on Series/1	05F
StarProof	StarProof Bridge	6276-536	15									PC,XT,jr,AT,3270-PC		05R
Starter	Timberline Starter Set	6871-511	100									.GB20-2037	PC,XT,AT	05Y
Starter	Utility Work Management Starter System	5798-DTC	8250		375							.G320-0797	MVS+CICS+IMS	15H
Stat	Info Syst for Attny - Stat Dates (Docket	5793-ADX	750									.GB30-6000	Client/Matter Record	05H
Stat	Info Syst for Attny - Stat Dates (Docket	5793-AEJ	2275									.GB30-6001	Client/Matter Record	05H
STAT	STAT - BASIC	5734-XA3	1320		60							.GH20-1027	IIF(D05/OS/T50),VS	15C
STAT/PC-LIBRARY	STAT/PC-LIBRARY tm	6187-271	440									.GB30-2037	PC,XT,AT,RT	05Y
+STAT/PROTRAN	STAT/PROTRAN	5669-105	1495										RT AIX	05Y
-State	DL/I - CICS/VS Test Prog. State Indust.	5796-ARN	1020		93							12.G320-6053	D05/VS	15H
Statement	Problem Statement Language and Analyzer	5796-BDX	49500									.G320-2719	VM,MVS	15H
Statement	3890 Statement Preparation Sort	5796-ALP	3630		330							12.G320-5715	OS/VS1	15H
Statements	Client Statements	5793-ABE	423									.GB30-2151	5793-AAZ+ABZ	05X
Statements	Client Statements Series 800	5793-ACN	220									.GB30-2415	S/36+5793ACH+ABZ	05H
Statements	Info Syst for Attny - Client Statements	5793-ADY	100									.GB30-6000	Client Finance Mgt	05H
Statements	Info Syst for Attny - Client Statements	5793-AEK	250									.GB30-6001	Finance Mgt	05H
States	States 'n Caps (R)	6871-278	39									.GB30-2037	PC,XT,PCjr	05Y
States	These United States	6276-509	70									PC,XT,jr,AT,3270-PC		05R
Station	CPS 4978/4979 Display Station	5799-TAK	168		7							24 GC34-1575	Series/1	15C
Station	CPS 4979 Display Station	5799-TAE	68		2							24 SC34-1554	Series/1	15C
+Station	SSP Display Station Pass-Through	5727-SS1/14	500		40	440							6079,4687,4688,4689	15A
Station	Work Station Search Facility	5714-MS1	827									.GH30-0458	System/38	15D
Station	Work Station Search Facility	5726-XR1	503									.G580-0212	System/34	01B
Station	Work Station Search Facility	5727-XR1	935									.G580-0212	System/36,S/36 PC	15B
Station	Work Station Support Subroutine	5799-AYW			20				15			.GC21-7808	System/34	15X
-Station	3270 Attached Work Station	5608-SR9	600									.G544-2207	Displaywriter	05E
Station/Debug	CPS Operator Station/Debug Pack	5799-TBB	240		10							24 SC34-1562	Series/1	15C
-Statistical	Advanced Statistical Analysis	5796-PBH			1350							24.G320-8063	OS/MET/MVT/VS	21H
Statistical	CADAM (R) Statistical Data Module	5796-ATG	2120	372	34	1960	226	19				.G320-6063	OS/VS,VM+GM	15E
-Statistical	Statistical Library - APL	5796-PHH	3165		240							.G320-5688	VSAPL	11H
Statistics	Periodicals Control System Rel 4	5785-DDN	15795	2500	718							24.G320-6662	5787-DAA+FAJ+FAH	25H
Statistics	RS/1 tm	6317-003	2159									.3209-240	PC+10MB,3270-PC,AT	05G
-Statistics	Statistics Library - Advanced	5796-PJT	2795		212							.G320-5811	VSAPL	11H
STATLIB	STATLIB 1	6276-501	150										PC,XT,jr,AT+APL	05R
STATLIB	STATLIB 2	6276-539	150										PC,XT,jr,AT+APL	05R
-STATLIB2	Statistics Library - Advanced	5796-PJT	2795		212							.G320-5811	VSAPL	11H
Status	Production Status and Costing Mfg	5726-MS1	1575		77							.GH30-0220	System/34	11C
Statutory	Attorney Practice - Statutory Dates	5793-ABF	3850									.GB30-2160	5793-ABL+ABZ	05X

Keyword	Program Title	Number	OTC	ILC	HLC	DSO	DSI	DSM	MLP	HML	Mo	MoreInfo	Environment	TPLS
Statutory	Statutory Dates (Docket) Series 800	5793-ACP	1650									.GB30-2415 S/36+5793ABZ+ACR	.OSH	
STIPS	Series/1 Terminal Interface (to VM/IX)	5799-BXL	3400									GH20-6410 VM/IX+FBX ASCII term	SSE	
Stock portfolio	Executive Solutions	6024-151	69									.G520-5917 PC,XT,PCjr,PPC	OSZ	
Stocks	Computer Stocks and Bonds tm	6086-016	25									.GB30-2037 PC	OSY	
*Storage	Data Facility Hierarchical Storage Mgr	5665-329			800			600	141	226		SC33-0223 MVS,XA	LSK	
Storage	Direct Access Storage Device Migration	5668-092	1450							19	30	GC26-5972 OS/VS+3375/3380	OIX	
Storage	Direct Access Storage Dump Restore	5740-UT1	2800		167							GH20-9116 OS/VS/1,OS/VS2,OS/MFT	LSK	
Storage	DDS / Virtual Storage Extended	5745-030	nc									GC33-6108 S/370,4300,303x,3083	NOSJ	
Storage	Hierarchical Storage Manager	5740-XRB				579		434	129	206		GH35-0007 Succeeded by DFHSM	LSK	
Storage	Mass Storage System Extensions 3850	5740-YVG				327		245	54	86		GH35-0034 OS/VS,MVS,XA	LSK	
Storage	Mass Storage Table Maintenance 3850	5796-PHY	7150			279						G320-5742 OS/VS,MVS,XA	LSK	
Storage	Mass Storage Trace SMF Correlation Aid	5796-PJX	3010		137						24	G320-5810 OS/VS,MVS,XA	LSK	
Storage	Operating System / Virtual Storage 2	5742-017	nc									GC28-0601	NOSC	
Storage	Storage & Information Retrieval System	5664-189		1650	575		1235	375				GH12-5147 VM+ISPF,XT/370	LSM	
Storage	Storage & Information Retrieval System	5740-XR1	28160		1280							GH12-5114 OS/VS,CICS/VS,IMS/VS	ZSB	
Storage	Storage & Information Retrieval System	5746-XR4	22990		1045							.GH20-1832 CICS/DOS/VS	ZSB	
Storage	Storage Device Migration Aid	5796-PHP	6195		279							.G320-5714 OS, OS/VS, MVS,XA	LSK	
Storage	Storage Tube Simulator	5668-820	2750		300							.GC34-4033 VM+GDDM+FORTRAN	LSK	
Storage	Virtual Storage Personal Computing - V2	5665-283			2050			1537	214	342		GH20-9192 MVS	LSK	
Storage	Virtual Storage Personal Computing	5740-XR6			1520			1020	220	352		GH20-9070 MVS	LSK	
Storage	Virtual Storage Analysis	5798-CNC	726		66							12.GB21-2002 OS/VS,MVS,XA+IMS/VS	LSH	
Storage	Virtual Storage Monitor	5798-DEL	792									.GB21-2721 MVS,5740-XY4	LSH	
Storage	Virtual Storage Measurement Reporter	5799-HML	nc									STOR/MVS,CICS,IMS	NOSE	
Storage	VM File Storage Facility	5798-DMY	1100									.GB21-3084 VM	LSH	
Storage	3277 Graphics Attachment Storage Tube	5798-DA0	616		56							12.GB21-2503 MVS,MVS/XA,VM/CMS	LSH	
Store	COBOL 3650 Programmable Store System	5740-CB2		1070	518			802	238	11	17	GC30-3059 OS/VS	LSK	
Store	COBOL 3650 Programmable Store System	5746-CB2		855	285			639	213	11	17	GC30-3059 DOS/VS	LSK	
Store	Direct Store Vendor Delivery Control	5796-BBE			655						24	G320-6423 DOS/VS CICS DL/I	LSH	
Store	EDX Direct Store Delivery System	5798-RLW	1200									.GB30-1998 Series/1	LSK	
Store	EDX Store Item Receiving System	5719-DS0	1600									SB30-7013 COBOL+5719-TR1	2SE	
Store	EDX Store Item Management	5798-RTE	1000									.GB30-2405 Series/1	LSH	
Store	Host Interactive Store Communications	5798-DNH	26400		1200							.GB21-3117 MVS+CICS	ZSH	
Store	Pharmacy - Programmable Store System	5735-H11			48						48	GH20-5278 DOS/VS,OS/VS	LSH	
Store	Retail Store System Host Support	5744-B01	nc									GC30-3022 OS/VS/1	NOSS	
Store	Store System Installation Aids	5770-SA1	nc									DOS/VS,DOS/VSE	NOSB	
Store	Store System Installation Aids	5770-SA2	nc									OS/VS	NOSB	
Store	3650 Programmable Store System SPPS	5747-CJ2	nc									GC30-9535 DOS/VS	NOSJ	
Store	3650 Retail Store System	5744-B03	nc									GC30-9512 OS/VS	NOSS	
Store	3650 Retail Store System	5747-BJ3	nc									GC30-9514 DOS/VS	NOSN	
Store	3650 Store Data Management	5748-D22	1160		29						48	GH20-2150 SPPS II & PSS Host	LSA	
Store	3650 3680 Programmable Store System Host	5744-D16	nc									GC30-3060 Replaced by 5668-912	NOSJ	
Store	3650/3680 Programmable Store System Host	5747-D16	nc									GC30-9536 Replaced by 5668-912	NOSJ	
Store	3660 Supermarket Store System	5744-BR2	nc									GC30-9504 OS/VS	NOSS	
Store	3660 Supermarket Store System	5747-BK2	nc									GH30-3025 DOS/VS	NOSS	
Store	3680 Store Systems Sales Application	5735-B61	304		8						48	GH20-5608 SPPS II & PSS Host	LSA	
Store	3680 Store Systems Administration	5735-B62	504		13						48	GH20-5608 SPPS II & PSS Host	LSA	
Store	5520 Documents - Host Store & Forward	5798-RHA	12100		1100						12	.GB30-1690 TCAM,VTAM	LSK	
Stores	Advanced Data Communication for Stores	5735-XR2	5455		248							.GH20-2188 DOS/VSE,OS/VS	LSK	
Stores	3650 Retail Stores System	5747-BJ1	nc									GC30-3023 DOS/VS	NOSS	
Stores inventory	DPPX Materials/Purchasing and Reporting	5796-PXH	99000									G320-0353 DPPX+COBOL	LSH	

Keywords - Alphabetic Sequence

J-164

Codes Explained in Appendix B

Keyword	Program Title	Number	OTC	ILC	MLC	DSO	DSI	DSM	MLP	MML	Mo	MoreInfo	Environment	TPLS
+Storyboard	PC PicturePak tm Holidays	6187-323	195									.GB30-2037	PC,XT,PCjr,AT,3270PC	05Y
+Storyboard	PC PicturePak The PC Family	6187-327	195									.GB30-2037	PC,XT,PCjr,AT	05Y
Storyboard		6316-998	275									.G580-2001	PC,PCjr,PPC,AT,XT370	05G
-Strategic	Strategic Profit Model	5798-NZR	315									.GB30-1424	System/34	15H
Strategic	Strategic Profit Model II	5798-RPT	495									.GB30-2130	System/36	15X
Strctrd Search	Information/Library	5665-277		536	205		401	154	15	24		.GH12-5136	MVS,XA+NCCF	15K
Stream	Communicating Job Stream Processor	5798-RFC	715									.GB30-1628	Series/1	15H
Stream	Data Dictionary Job Stream Processor	5798-DQN	7150		325							.G320-0335	MVS	15H
Stream	DPPX 3270 Data Stream Compatibility	5760-RC1	750		28	637			24	38	61	GC27-0400	DPPX	15K
Stream	RFS Job Stream Processor	5799-TEC	535		13							GC34-0398	Series/1	15E
-Stream	3270 Data Stream Compatibility	5608-SR6	600									0544-2049	Displaywriter	05E
Stripe	CPS 4991-201 Mag Stripe Card Reader	5799-TAJ	336		14								Series/1	05C
-Structure	APL Workspace Structure Analyzer	5796-PNB	2055		187						12	.G320-6170	VSAPL	15H
Structure	Chemicals of Life I: Structure of Matter	6024-317	65									G520-1107	PC,PCjr,XT,AT,PPC	05Z
Structure	Chemicals of Life I: Structure of Matter	6024-397	295									G520-1107	PC,PCjr,XT,AT,PPC	05Z
Structure	Leaf Structure & Physiology (Biol Series	6024-318	65									G520-1107	PC,PCjr,XT,AT,PPC	05Z
Structure	Leaf Structure & Physiology (Biol Series	6024-388	295									G520-1107	PC,PCjr,XT,AT,PPC	05Z
Structured	Structured Assembler Translator	6276-550	35									PC,XT,jr,AT,3270-PC		05R
Structured	Structured BASIC Facility	6276-618	55									PC,XT,jr,AT,PPC		05R
Structured	Structured Programming Facility	5740-XT8	18380		630							.GH20-1974	OS/VS2	11X
Structured	Structured Programming Facility / CMS	5748-XT3	13440		448							.GH20-2197	VM/CMS MVS	15X
-Structured	Structured Programming Macros	5798-CLF	660		60						12	.GB21-1957	DOS/VS, OS/VS,VM	15H
+Structured	Structured Query Language/RT Data Base	5669-058	1000									SV21-8033	RT AIX+Data Mat	05H
Structured	Structured Query Language/Edit	5798-DPJ	2750									.G320-9184	SQL/DS	15X
Structured	Structured Query Language/Edit	5798-DQY	3850									.G320-0348	VM/SQL/DS	15H
+Structuring	COBOL Structuring Facility	5668-786	125000		12500							.SC34-4080	VM,MVS+ISPF	15M
Student	Admin System for Colleges/ Student Recds	5796-PMY	7920									.G320-0194	System/38	15H
-Student	Coll & Univ Business Sys- Student Aid	5796-RHR	3960									.GB30-1747	System/34+5796-RHW	15X
-Student	Coll & Univ Business Sys- Student Record	5796-RHM	6380									.GB30-1747	System/34	15X
-Student	College Business Sys Student Aid & Bill	5796-RQD	4600									.GB30-2181	System/36	15Z
-Student	College Business Sys Student Records	5796-RQF	7150									.GB30-2181	System/36	15X
+Student	Guaranteed Student Loan/Fell Tracking	5796-TCG	1500									.G320-9506	System/36	15I
-Student	Interactive Student Records	5798-NHF	2075		189						12	.GB30-1500	System/34	11H
-Student	Job Placement Match	5796-PXN	6490									.G320-0529	VSE	15H
-Student	Online Student Registration	5798-NHP	4025		366						12	.GB30-1312	System/34	15H
Student	RAMS II Student Service System	5796-BCR		1230	471						24	.G320-6661	VSE,DL,I,5735-E91	15X
Student	School - Student Administration System	5796-ZFZ	13200									.GB30-2268	System/36	15H
Student	School - Student Attendance System	5796-ZGC	3960									.GB30-2268	5796-ZFZ	15H
Student	Student Accounting School Administration	5726-E32	3410		167							.GH30-0414	System/34	11X
+Student	Student Accounts Payable	5796-TCF	1500									.G320-9506	System/36	15I
-Student	Student Administration System	5796-ZFN	14300									.GB30-2276	System/34	15X
Student	Student Attendance Management System	5796-ZNH	3600									.GB30-6002	Student Mgt System	15H
Student	Student Evaluation System	5796-ZNJ	3000									.GB30-6002	Student Mgt System	15H
+Student	Student Financial Tracking	5796-TCA	6750									.G320-9506	System/36	15I
Student	Student Grading System	5796-ZNF	2500									.GB30-6002	Student Mgt System	15H
Student	Student Management System	5796-ZND	3000									.GB30-6002	System/36 PC	15H
Student	Student Optical Scanning System	5796-ZNG	1500									.GB30-6002	Student Mgt System	15H
Student	Student Records School Administration	5726-E31	3095		151							.GH30-0410	System/34	11X
+Student	Student Recruitment	5796-TCB	6000									.G320-9506	System/36	15I
Student	Student Scheduling School Administration	5726-E33	4095		200							.GH30-0415	System/34	11X

Keyword	Program Title	Number	OTC	ILC	MLC	DSO	DSI	DSM	MLP	HML	Mo	MoreInfo	Environment	PLS
Student	Student Scheduling System	5796-ZNF	5000									.0830-6002	Student Mat System	1SH
ST500	Direct S.W.I.F.T. Terminal 500 Link	5668-857	24200		1100							GH12-5149	DNML+ST500+3705/25	1SB
Subrou	FORTRAN IV Realtime Subrou Libr Ver 2	5719-F04	351		9							GC34-0140	RPS	1SC
+Subroutine	C Compiler and Subroutine Library Rel 1	5732-023	7600										System/88	1SM
-Subroutine	Chained CCH Print Subroutine	5796-ARH	385									G520-5828	D05/V5	1SH
+Subroutine	Engineering & Scientific Subroutine Lib	5668-863			700			525				GC23-0182	Vector Facility	1SE
Subroutine	EDX Math & Functional Subroutine Library	5719-LM3	502		12							GC34-0137	Series/1	1SC
-Subroutine	Graphic Subroutine Package	5796-PPR			90						24	G320-6657	VM/SP	1SX
Subroutine	High Accuracy Arithmetic Subroutine Libr	5665-337	6000									GC33-6163	MVS,XA+5748-F03	1SE
Subroutine	High-Accuracy Arithmetic Subroutine Library	5664-185	2500									GC33-6163	VM6-748-F03,5748-LM3	1SE
Subroutine	Mathematics - Subroutine Library	5736-XM7	5035		138							GH12-5103	05/V5, D05/V5	1SC
+Subroutine	Scientific Subroutine Library 1.1 5.25"	5669-083	325										C505 Ext 1.13	0SX
+Subroutine	Scientific Subroutine Library 1.1 8"	5669-083/01	325										4520	0SX
Subroutine	Scientific Subroutine Package	5798-NYD	800									.0830-1563	Series/1 + FORTRAN	1SX
Subroutine	Scientific Subroutine Lib on 5.25" Disk	6331-471	325									GC22-9262	C505 Ext+FORTRAN	0SH
Subroutine	Scientific Subroutine Library on 8" Disk	6331-473	325									GC22-9262	C505 Ext+FORTRAN	0SH
Subroutine	Scientific Subroutine Library on 8" disk	6419-369	325									GC22-9262	S/9000+FORTRAN, Pasca	0SH
Subroutine	Scientific Subroutine Library 5.25" disk	6419-472	325									GC22-9262	S/9000+FORTRAN, Pasca	0SH
Subroutine	Work Station Support Subroutine	5799-AYM			20			15				GC21-7808	System/34	1SX
Subroutines	DPX 3640 Special Support Subroutines	5798-DEJ	484		44						12	GB21-2719	8100/PPPX-COBOL	1SH
-Subroutines	EDX 3101 Full Screen Subroutines	5798-RJM	269									.0830-1845	Series/1	1SX
+Subroutines	GDDM Graphic Subroutines	5798-DXR	550									.0320-9504	System/36	1SH
-Subr08	MICR Program Generator	5798-RBE	759		69							12.0830-1476	System/34	1SH
-Subr25	MICR Program Generator	5798-RBE	759		69							12.0830-1476	System/34	1SH
+Subscriber	ISPF/PC II Development Subscriber Update	6265-484	30									G520-6006	6317026	0SG
+Subscriber	ISPF/PC II Runtime Subscriber Updates	6265-486	30									0520-6006	6317025	0SG
Subscript	EDX Subscript	5796-ZDC	2100									.0830-1909	Series/1 EDX	1SX
Subscription	Membership Subscription Fulfillment	5796-ZJH	3850									.0830-2401	5796-ZJE	1SX
Subscription	Subscription Fulfillment Trade Assn	5796-ZJC	3850									.0830-2352	5796-ZMZ	1SX
-Subscription	Systems Library Subscription Service Mat	5798-CJE	814		74						12	GB21-2222	05/V5	1SH
+Subset	ACF / Network Control Program V4 Subset	5668-754			275			206	48	77		GC30-5550	V5E,VM,MVS,XA+VTAM	2SK
Subset	BASIC Subset	5726-BA2	390									GC21-9035	System/34	1SA
Subset	RPG II Subset	5726-RG2	270									GC21-9034	System/34	1SA
Subset	System Support Program Subset Preconfig	5726-SS2	900									GC21-9032	System/34	1SA
Subset	Utilities Subset	5726-UT2	330									GC21-9033	System/34	1SA
Subsys	Remote Spooling Communications Subsys V2	5664-188	6300		337	5355		287	38	61		GH24-5055	VM	1SK
Subsys	Remote Spooling Communications Subsys V1	5748-XP1			111			83	38	61		GH24-5004	VM/SP	1SK
Subsys	RPS Prog Comm Subsys Preparation Facil	5719-CS0	523		12							GC34-0183	Series/1	1SX
Subsys	RPS Prog Comm Subsys Extend Exec Support	5719-CS2	1200		34							GC34-0186	Series/1	1SX
+Subsys/	Vector Processing Subsys/ Vector Facilit	5665-368	40000			30000						GC23-0625	Vector Facility	1SE
Subsystem	Batch Subsystem	5796-BCY	1100									.0320-6660	VM/CMS	1SH
-Subsystem	COBOL Subsystem Compiler	5796-NPW	4300		391							12.0830-1100	Series/1	1SH
Subsystem	CPS 4963 Subsystem	5799-TCZ	312		16						24	GC34-1638	Series/1	1SC
Subsystem	CPS 4969 Mag Tape Subsystem	5799-TDM	1176		59						24	GC34-0347	Series/1	1SC
Subsystem	Intelligent Terminal Subsystem	5798-NLG			126							12.0830-1032	Series/1	1SH
-Subsystem	Manufacturing Order Tracking Subsystem	5798-RCT	570		114							06.0830-1536	System/34	1SH
Subsystem	Remote Spooling Communication Subsystem	5796-PXF	3850									.0320-0323	V5E+VM6670 line dvr	1SX
Subsystem	RPS Program Preparation Subsystem Ver 6	5719-AS6	5265		273							GC34-0461	Series/1	1SX
Subsystem	RPS Program Preparation Subsystem 7.2	5719-AS7	6600		472							GC34-0616	Series/1	1SM
Subsystem	Subsystem Program Preparation	5744-BQ2	nc									GC30-9513	05/V5	NOSS

Keyword	Program Title	Number	OTC	ILG	MLC	DSO	DSI	DSM	HLP	HML	Ho	MoreInfo	Environment	TPLS	
Subsystem	Subsystem Program Preparation	5747-BJ2	nc									GC30-9515	DOS/VS	N05S	
Subsystem	Subsystem Support Services	5747-CC6	nc									GC30-3022	DOS/VS,OS/VS,SSX	N05N	
Subsystem	Vector Processing Subsystem / XA	5665-301	50000			37500				58	93	GC28-1204	MVS/XA+3838	15K	
Subsystem	Vector Processing Subsystem	5744-CK2	nc									GC24-5182	OS/VS+3838	N05S	
+Subsystem	Voice Communication Operating Subsystem	6280-708	65										PC,XT,AT	05Z	
Subsystem	3650 Subsystem Program Prep Support II	5735-D16		1605	577		1200	433	28	45		GC30-9524	DOS/VSE,OS/VS	15K	
Subsystem	3800 Printing Subsystem Support	5747-CC1	nc									GC26-3913	DOS/VSE	N05S	
-Subtask	TCAM Subtask Trace Analysis Report	5798-D0K	539		49						12	.GB21-2860	OS/VS,ACF/TCAM	15H	
Summary	IMS Monitor Summary & System Analysis II	5798-CHJ	3675		165							.GB21-1792	IMS/VS+GPAR	11E	
Sup	FORTRAN IV Compiler & Obj Sup Lib Ver 2	5719-F02	950		22							GC34-0306	EDX/RPS	13C	
Sup	Videotex/PC Ext Sup Updt B1.0 to B1.1	6265-471	30									0520-3917	PC,XT,AT+ACA+modem	05H	
SUPER-C	Source Compare Audit Utility	5796-PLZ	2640		100							.G320-6163	V51 VM/CMS MVS	11H	
Super-C	SuperC	6276-575	20									PC,XT,jr,AT,3270-PC		05R	
SuperCalc3	SuperCalc3 (R) (Feature 9431)	6187-170	69									.GB30-2037	Pcjr	05Y	
SuperCalc3	SuperCalc3 (R)	6871-375	395									.GB30-2037	PC,XT,3270-PC,AT	05Y	
-Supermarket	Supermarket Cashier Performance System	5796-BAE			180						12	.G320-6407	DOS/VSE	15H	
Supermarket	Supermarket Communication Sys for 3660	5798-NTL			230						12	.GB30-1247	System/34	15H	
Supermarket	Supermarket System Host	5747-BK1	nc									GC30-3025	DOS/VS	N05S	
Supermarket	3650 Supermarket Environment	5748-D21	2770		72						48	.GC30-3055	SPPS II & PSS Host	15A	
Supermarket	3660 Supermarket System - Host Support	5744-BR1	nc									GC30-3042	OS/VS	N05S	
Supermarket	3660 Supermarket Store System	5744-BR2	nc									GC30-9504	OS/VS	N05S	
Supermarket	3660 Supermarket Store System	5747-BK2	nc									GH30-3025	DOS/VS	N05S	
+Supermarket	4680 Supermarket Application	5669-032	2250									GC20-3371	4680 OS 1.2	15M	
+Supermarket	4680 Supermarket Application Sourcecode	5669-032/01	10000									GC20-3371	4643,7898	15M	
Supermarkets	EDX Energy Management - Supermarkets	5796-RJT	660									.GB30-1847	Series/1	15X	
SuperProject	SuperProject Plus tm	6871-439	495									.GB20-2037	PC,XT,AT	05Y	
Supervisor	EDX Basic Supervisor and Emulator Ver. 4	5719-X54	1900		141								Series/1	15X	
Supervisor	EDX Basic Supervisor & Emul Ver 5.2	5719-X55	2200		158							GC34-0099	Series/1	15M	
-Supervisor	Virtual Basic Supervisor - Waterloo	5798-RBY	682		31						36	.GB30-1466	Series/1	15H	
+Supervisor	X.25 SNA Network Supervisory Function	5799-WFE	nc										XT (5799-BZJ)	N23M	
Support/36	PC Support/36	5727-WS1	700		48	615						0580-0454	5727-LC1+S/36+AT	T11M	
Support/36	PC Support/36	5727-WS6	280			210						0580-0570	5727-LC6+S364	T01M	
Support/36	PC Support/36 Token-Ring Workstatn Feat	5727-WS1/01	1500		100	1320						0580-0454	6248	T11M	
+Support/36	PC Support/36 Token-Ring Workstatn Feat	5727-WS6/01	600			450						0580-0570	6181	T01M	
Support/38	PC Support/38 L7.0	5714-PC1	995			876							S/38+PC,XT,AT,PPC	15A	
Suppt-	Cross Applc Sys Suppt- Upgr from MAPICS	5714-MYX/01	2420		120	1230							4623,9623	15E	
Suppt/Check	Electronic Payment Sys Suppt/Check Procg	5796-PYK	15400									.G320-0218	V51,MVS+3890	15H	
Surface	CADAM (R) 3D Surface Geometry Module	5796-AMT	12050	1285	215	6885	1250	123				G320-6063	OS/VS,VM/CMS	05H	
Surface	Surface Water - Earth Science Series	6024-123	55									G520-1107	PC,XT,Pcjr,PPC+DOS2+	05Z	
+Surfaces	CATIA (R) Advanced Surfaces 2.2	5668-831		1410	470		993	331					CATIA Base	15E	
Surgery	PCS Surgery Reporting	5796-PRJ	9130									.G320-9133	5796-ANY,ATZ	15X	
Surveyor	IMS Data Base Surveyor Utility Feature	5665-332/04			120			90	13	21			6011,6511,5186	25K	
Surveyor	IMS/VS Data Base Surveyor Utility Feat	5740-XX2/03			120			90	13	21		GH20-9069	6199,6569	05K	
Suspense	Check Proc Archive Retrieval & Suspense	5796-BTW	8800									.G320-9153	OS/VS	15H	
Svc	Customer Information System Design Svc	5712-AAA/01	4385		399						12	.GE20-0461	9096	05	
SVS	Operating System / Virtual Storage 2	5742-017	nc									GC28-0601		N05C	
SVS/1	EDX Videotex System SVS/1	5799-TFN	13750										0520-3992	Series/1	15X
SVS/1	Videotex/PC (Feature 9250)	6316-967	239									.G520-3917	Pcjr	05H	
SVS/1	Videotex/PC Ext Sup Updt B1.0 to B1.1	6265-471	30									0520-3917	PC,XT,AT+ACA+modem	05H	
SVS/1	Videotex/PC Updt B1.0 to B1.1	6265-472	55									0520-3917	Non-subscriber	05H	

Keyword	Program Title	Number	OTC	ILC	MLC	DSO	PSI	DSM	MLP	MML	Mo	MoreInfo	Environment	TPLS
SVS/1	Videotex/PC Version B1.1 (Feature 9229)	6410-985	275										.G520-3917 PC,XT,AT+ACA+modem	05H
-Swap	Paging System - Extended Swap	5796-PNN	1910		145								.G320-6403 MVS/SE MVS/SP	15H
+Switch	3728 Matrix Switch Host Facility	5665-428	6000										.G520-6040 NetView/NCCF+MVS,XA	15M
Switching	Message Switching System	5798-RHF	2145										.GB30-1756 System/38	15H
Switching	Transaction Switching Facility	5798-RKC	3135										.GB30-1871 Multiple System/38s	15X
Switching	X.25 NCP Packet Switching Interface 4.3	5668-981		770	269			557	202	40	64		.GC30-3189 3720/25+NCP 4.2	25K
+Symbolic	Symbolic Debugging Aid 3 Release 1	5732-017	1660										.GC34-0716 System/88	15M
Symphony	Symphony tm (Feature 9448)	6187-187	695										.GB30-2037 PC,XT,PPC	05Y
Symphony	Symphony Spelling Checker	6187-251	139										.GB30-2037 Symphony tm	05Y
Symphony	Symphony Text Outliner	6187-252	139										.GB30-2037 Symphony tm	05Y
-Synchronous	Binary Synchronous Communication	5608-SR2	260										.G544-0851 Displaywriter	05E
Synchronous	Binary Synchronous Communications	5715-BC1	850										.GC34-0431 Sys/23 Datamaster	11X
Synchronous	CPS - Binary Synchronous Support	5799-TAF	120		5						24		.GC34-1553 Series/1	15C
Synchronous	DisplayComm Binary Synchronous Communica	6024-187	409										.G520-3917 PC,XT,PPC	05Z
+Synchronous	Synchronous Data Link Control Protocol	5732-010	3300										.GC34-0677 System/88	15M
Synchronous	3270 Binary Synchronous Emulation	6024-037	769										.G520-3917 PC	05Z
Synon	Language Dictionaries	5714-DCT	195			172							.GC09-1021 5714-WP2	15A
-Sys-	Coll & Univ Business Sys- Student Aid	5796-RHR	3960										.GB30-1747 System/34+5796-RHM	15X
-Sys-	Coll & Univ Business Sys- Financial Acct	5796-RHT	6380										.GB30-1747 System/34	15X
-Sys-	Coll & Univ Business Sys- Student Record	5796-RHM	6380										.GB30-1747 System/34	15X
Sys/Mod	Plant Auto Comm Sys/Mod Transfer Facilit	5798-RHN	1900										.G320-0836 MVS+VTAM+EDX on S/1	15H
Sys/23	BASIC 5110/5120 to Sys/23 Conversion Aid	5715-CV1	875										.GC34-1693 Sys/23 Datamaster	11E
-Sys/3	Sys/3 to Sys/34 Conversion Aid	5798-NTE	474										.GB30-1231 System/34	05H
-Sys/34	Sys/3 to Sys/34 Conversion Aid	5798-NTE	474										.GB30-1231 System/34	05H
System-Assembl	language Extension System-Assembler	6276-584	23										.PC,XL,ir,AT,PPC	05R
System-Design	Problem Statement Language and Analyzer	5796-BDX	49500										.G320-2719 VM,MVS	15H
System-R&D	Problem Statement Language and Analyzer	5796-BDX	49500										.G320-2719 VM,MVS	15H
+System/CMS	Customer Information Control System/CMS	5668-795	15000			835	13500	750					.GC33-0284 VM,VM/PC	25M
System/3	System/3 to System/36 RPG-II Conversion	5798-DQR	330										.G320-0342 System/36	15H
System/3	3340 Data Import from System/3	5746-AMS	1320										.GC33-6062 DOS/VSE VSAM	05C
+System/88	System/88 Network	5732-002	7550										.GC34-0677 System/88	25M
+System/88	System/88 Operating System 1.1	5732-001	11800										.GC34-0664 System/88	25M
System	Integrated Production Control System	5796-ZFH	19250										.GB30-2261 System/36	15X
SIDES	EDX Data Entry	5796-ZDF	6600		300								.GB30-1983 Series/1	15X
SIDES	RPS Data Entry System	5796-ZDE	6600		300								.GB30-1983 Series/1	15X
T/E	Programmer's Productivity Aid & T/E	5798-RHC	605										.GB30-1702 5280 Data System	15X
Table	CPCS Sort Table Generator	5798-DNG	13200		600								.GB21-3104 MVS,VS1	15H
Table	CPS Disk Table of Contents	5799-TAW	28		1						24		.GC34-1561 Series/1	15C
Table	DPPX/3644 Parameter Table Generator	5760-ED1	312			27	240			21	7	11	.GC24-5179 DPPX	15X
Table	Mass Storage Table Maintenance 3850	5796-PHY	7150		279								.G320-5742 OS/VS,MVS/XA	11X
Table	Routing Table Generator	5668-815	6000		300								.GH20-6787 PL/I+MVS,XA or VM	21E
Table	Table Preparation Facility 3694	5798-RFK	100								12		.GB30-1645 System/34+5748-F53	15X
Table	Table Preparation Facility 3694	5798-RQX	1650										.GB30-2238 S/36+5748F53+5798RFL	15X
Table	3644 Parameter Table Generation Facility	5668-998	2400		78	1800			59	8	13		.GC31-0009 DOS/VSE,OS/VS1	15K
Tables	Multiplication Tables	6276-601	25										.PrivIutor or 6276602	05R
-Tablet	3277 Graphics Attachment Plotter Tablet	5798-DCE	561		51								12.GB21-2598 TSO,VM 85799-AXX/-	15H
Tape	CPS 4969 Mag Tape Subsystem	5799-TDM	1176		59								24 GC36-0347 Series/1	15C
Tape	IMS Log Tape Management System	5796-AHT	400		200								12.G320-8141 OS/VS2, IMS/VSIMS	15H
+Tape	SSP Tape Support	5727-SSL/13	400		30	352							6102,4934,4935,4936	15A
-Tape	Tape Automation - Production Environment	5798-DGB	2520										.GB21-2828 DOS/VSE	15H

Keywords - Alphabetic Sequence

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Codes Explained in Appendix B



Keyword	Program Title	Number	OTC	ILC	MLC	DSO	DSI	DSH	MLP	MML	Mo	MoreInfo	Environment	TPLS
Tape	Tape Automation for Production VSE	5798-DRY	2200									.G320-0835	VSE	25H
Tape	Tape Library Control System	5785-EAM	8580		390							.G320-6652	MVS	15H
-Tape	Virtual Tape Librarian	5796-PNZ	1104		46							.G320-6421	VM/CMS	15H
Tariff	Fare Quote / Ticketing Tariff Maint Feat	5736-T11	01249900		11360							.GH20-0875	6030,6031,6049	01B
-TASCOT	Tools for Application Source Translation	5798-RJA	13660		620							.G830-2027	System/34	15X
+Tax	Land Ownership Tax Mapping	5796-PXK	10000									.G320-0359	Graphic Prog Genertr	25H
Tax	Personal Tax Planner	6187-297	295									.	PC	05Y
Tax	Personal Tax Planner	6187-302	59									.	PC(Business Library)	05Y
Tax	Tax Decisions tm	6871-444	25									.	PC	05Y
-Tax Exempt	Medical Fund Raising	5796-PXD	385									.G320-0351	Reportpack	15X
Tax exempt	Membership Data Base - Trade Assn	5796-ZHZ	7700									.B630-2352	System/36	15X
Tax exempt	Membership Data Base	5796-ZJE	7700									.G830-2401	System/36	15X
Tax planning	Dollars and Sense tm	6871-482	180									.G830-2037	PC,PCjr	05Y
Tax-Deferred	Payroll 401K Tax-Deferred Savings Plan	5798-RWK	300									.G830-2493	S/36 DMAS Payroll	15H
Tax-deferred	401K Tax-deferred Savings Plan	5798-RHF	300									.G830-3316	S/38 MAPICS Payroll	15X
Tax-deferred	401K Tax-deferred Savings Plan	5798-RHG	300									.G830-3316	S/34 MAPICS Payroll	15X
Tax-deferred	401K Tax-deferred Savings Plan	5798-RHH	300									.G830-3316	S/36 MAPICS Payroll	15X
+Taxonomy:	Taxonomy: Classification & Organization	6024-416	65									G520-1107	PC,XT,AT,PCjr+color	05Z
+Taxonomy:	Taxonomy: Classification & Organization	6024-446	296									G520-1107	PC,XT,AT,PCjr+color	05Z
Taylor	Taylor Industrial - Medicon 484/584/884	5795-AGD	2500									.G830-2037	5531,7531,7532	05Y
TCAM	ACF/Network Control Program Version 3	5667-124		2550	425		2310	385	148	237		GC27-0657	3705/25+MVS,XA	25K
TCAM	ACF/TCAM - Version 3	5665-314		8025	2675		6015	2005	330	528		GC30-3235	ACF/VTAM V2 or 3	25K
TCAM	Network Communications Control Facil V2	5668-947		2250	375		2010	335	55	88		GC27-0657	MVS+VTAM,TCAM	15K
-TCAM	TCAM Subtask Trace Analysis Report	5798-DGK	539		49							12.GB21-2860	05/VS,ACF/TCAM	15H
TCF-AF	Telecommunications Control System	5740-XXD	16500		1470							GH20-1735	05/VS	25C
TCF/IP	VM Interface Program for TCP/IP	5798-DRG	18700		850							.G320-9219	VM/EDX/RPS/DACU	15H
TCS	Telecommunications Control System	5734-F31			7215							GH20-4324	05/VS	25B
TCS	TCS Client Ledger System tm	6187-208	1695									.G830-2037	PC,XT,AT	05Y
TCS-ACF	ACF Telecommunications Control System	5740-XY3	2640		255							GH20-2192	05/VS	15C
TDSF	401K Tax-deferred Savings Plan	5798-RHF	300									.G830-3316	S/38 MAPICS Payroll	15X
TDSF	401K Tax-deferred Savings Plan	5798-RHG	300									.G830-3316	S/34 MAPICS Payroll	15X
TDSF	401K Tax-deferred Savings Plan	5798-RHH	300									.G830-3316	S/36 MAPICS Payroll	15X
Teaching	=MONEY=TRACK= (Teaching & Demonstrator)	5792-ZFB	nc									.G830-2313	IBM Internal	NO5X
Teaching	Personal Teaching Aid	5726-PT1	600									.G580-0534	System/36	15X
Teaching	Personal Teaching Aid - Authoring	5726-PT1/01	1200									.G580-0534	6025	15X
Teaching	Programmed Inquiry Learning or Teaching	6316-973	219									.G520-1107	PC,XT,AT,PPC,PCjr	05H
Tech	DOS Tech Ref (Book) Upgr from 2.1 or 3.0	6279-935	65									G520-1107	DOS 3.1	01Z
+Tech	VM Bond Tech Coor Support Release 2	6467-043	400									GH24-5089	VM Bond Release 2	05M
Technical	DOS Technical Reference (Book)	6024-213	109									G520-1107	DOS 3.1	01Z
Technical	VM/PC Bond Technical Coordinator SuptPkg	6314-143	275									GH24-5089	PC Bond+PC,XT,XT/370	05H
-Techniques	Data Base Techniques	5798-NQK	755		151							06.G830-1178	System/34	15H
Techniques	Data Base Techniques	5798-RPQ	1100									.G830-2209	System/36	15X
Tektronix tm	CAEDS (R) System Analysis	5796-BEP	45790	4815	1605	33740	31501050					GE20-0771	MVS,VM/5080/3250+GAM	15E
Tektronix tm	Graphics Terminal Emulator	6024-206	319									G520-1107	PC,XT,PPC,AT+DOS2.1+	05Z
Tektronix tm	40SStorage Tube Simulator	5668-820	2750		300							.GC34-4033	VM/GOADM+FORTRAN	15E
Tektronix(R)	618CAEDS (R) Finite Element Solver	5796-BDM	26470	3655	941	19800	2400	620				G520-3935	5796-BRZ+3277GA,3251	15E
Telecommunicati	ACF Telecommunications Control System	5740-XY3	2640		235							GH20-2192	05/VS	15C
Telecommunicati	Basic Telecommunications Access Method	5746-RCS			44				40	7	11	GC38-0292	DOS/VSE	15K
Telecommunicati	Telecommunications Control System	5734-F31			7215							GH20-4324	05/VS	25B
Telecommunicati	Telecommunications Control System	5740-XXD	16500		1470							GH20-1735	05/VS	25C

Keyword	Program Title	Number	OTC	ILC	MLC	DSO	DSI	DSM	MLP	MML	Mo	MoreInfo	Environment	TPLS
Teleconference	Cooperative Viewing Facility Version 2	5664-296	5280		330							.0520-6005 VM		.25A
Telemath	Telemath Disk 8	6871-383	40									.0830-2037 PC		05Y
Telephone	EDX Telephone Message Management System	5799-TFY	19971									GH36-0250 Series/1		1SH
Telephone	Personal Telephone Mbr/Voice Comm Option	1642-004	70									PC,XT,AT+VoiceCommun		050
Telephone	Personal Telephone Manager	6429-190	70									G320-9445 PC,XT,AT,3270-PC/AT		050
+Telephone	Telephone Access to Office Systems	6467-039	250									G320-9154 PRDF5,PS/36,PS/38		05E
Telephone	Touch-Tone - Audio Support	5798-WXZ			201						12	.0830-1350 Series/1		1SH
Teleprocessing	Teleprocessing Network Simulator 2.3	5662-262			1875							GH20-2487 MVS,XA,VM		11E
Teleprocessing	Teleprocessing Network Simulator Ver 1	5740-XT4			1840							GH20-1907 OS/VS		11B
Teller	Automated Teller Host Enhancements	5796-BBH			1050						12	G320-6428 D0S/VS, C1CS/VS		1SH
Teller	Automated Teller Host Support	5796-BBJ			2235							12.G320-6428 C1CS/D0S/VS		1SH
-Teller	Automated Teller System	5798-DHK			540	207						12.GB21-2909 3600 4700		1SX
Teller	Bank Teller Ap - Commercial Extensions	5796-AZX	1580									.G320-6396 3600		1SH
Teller	3624 Teller Machine IMS/VS Host Support	5796-BBG			1725							12.G320-6427 MVS,ACE-VTAM		1SH
+Teller	6700 Resource Manager - Teller Applicato	5668-751	350									4700 6700, jr. 2		1SM
+Temperature	Concept Devt: Heat, Temperature & Graphs	6024-474	75									128k+color		05G
+Template	1985 Tex Template	6276-561	20									PC,XT,AT		05R
Temple	Temple of Apshai (R)	6085-990	40									.0830-2037 PC		05Y
-Termin	3640 Industrial Termin - CICS Extensions	5798-DMC	3575									.0821-3040 5660-267		1SX
Terminals	EDX Indust Terminals - Transaction Test	5798-RRD	1980									.0830-2332 Series/1		1SX
Terminals-	Industrial Terminals- Acquisition & Tran	5798-RRD/01	1650									3036		1SH
Test	CICS/VS Online Test Debug II	5796-AHJ	2625		112							.G320-5710 D0S/VS,OS/VS		1SE
-Test	DL/I - CICS/VS Test Prog. State Indust.	5796-ARN	1020		93						12	G320-6055 D0S/VS		1SH
Test	EDX Indust Terminals - Transaction Test	5798-RRD	1980									.0830-2332 Series/1		1SX
-Test	IMS/VS Test Utilities	5796-PBA	1210		110						12	G320-1540 OS/VS/VS2,IMS/VS		1SH
Test	3694 Debug Test Aid for User Edit Progs	5798-DNJ	1100									.0821-5119 VSE,OS/VS		1SX
Test	3890 Programming Test Aid Enhancement	5798-CBG/01			40							12.GB21-1444 9516		1SH
Test/4381XA	System Test/4381XA	5751-LM2	nc									XA		N0SC
+Testing	Data Interfile Transfer, Testing & Oprns	5665-370			270			230				.SH19-6112 MVS,XA		1SM
Testing	Data Interfile Transfer, Testing, Oprns	5746-UT3	968		44	748			34	5	8	.GH19-6072 D0S/VSE		1SK
-Testing	Online Reject/Reentry Testing Aid	5798-CME	1350		123							12.GB21-2264 OS/VS		1SH
Testing	3890 OS/VS Programming Testing Aid	5798-CBG	3480									.GB21-1444 D0S/VS OS/VS D0S/VSE		1SH
+Tex	1985 Tex Template	6276-561	20									PC,XT,AT		05R
Texas	EDX to Texas Instruments (R) Controllers	5719-THA	5000									GC34-0099 5719-CF1		1SH
+Texas	Texas Instruments Ladder Logic Documents	5793-AHG	2500									Industrial PC		05Y
Text Editor	6670 Information Distributor	5798-RRB	2060									.0830-2301 System/38		1SX
Text formatter	DPPX Distb Document Formatting Facility	5785-RAA	1980									.G320-0355 8100		1SX
Textbook	Textbook Order Control	5798-RLC	1400									.0830-1905 Sys/23 Datamaster		1SX
-Textpack	Textpack E - Entry Level	5608-TRE	55									0544-2188 Displaywriter 128K		05E
-Textpack	Textpack 2	5608-TR2	320		180							Displaywriter		05E
-Textpack	Textpack 4	5608-TR4	400									0544-2096 Displaywriter 256K		05E
-Textpack	Textpack 6 - Advanced Functions	5608-TR6	865									0544-2187 Displaywriter 320K		05E
-Textpack	Textpack 6 Multipass Equation Print	5799-WMK	nc									PC,XT,AT		HOSE
The Instructor	Tutorial Set	6871-330	94									.0830-2037 PC		05Y
+Theory	Theory Formation: Reflections & Patterns	6024-471	75									G320-1107 PC,XT,AT,PC+color		05Z
+Thermal	Investigating Thermal Energy	6024-085	75									G320-1107 PC,XT,AT,AT+color		05Z
Thesaurus	Language Dictionaries	5714-DCT	195			172						GC09-1021 5714-NP2		1SA
Thesaurus	STAIRS/VS Thesaurus Retrieval	5799-AQK	10070		458							.GH20-1908 OS/VS/5799-AQL		1SB
Thesaurus	STAIRS/VS Thesaurus Generator	5799-AQL	4220		192							.GH20-1908 OS/VS/STAIRS		1SC
These	These United States	6276-509	20									PC,XT,jr,AT,3270-PC		05R

Keywords - Alphabetic Sequence

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Codes Explained in Appendix B

Keyword	Program Title	Number	OTC	ILC	MLC	DSO	DSI	DSM	MLP	MML	Mo	MoreInfo	Environment	TPLS	
Thinker's	Turtle Power Thinker's Guide	6024-167	11									G520-1107	Turtle Power	05Z	
ThinkTank	ThinkTank tm	6187-244	195									.GB30-2037	PC,XT	05Y	
Thoughtware	Thoughtware (R) Sampler	6187-217	19									.GB30-2037	PC,XT,PCjr+D052	05Y	
Threshold	NPDA 3600 Threshold Analysis	5668-983/01						907	152	19	30	GC34-2061	6008,6500,2155,2355	25K	
Threshold	NPDA 3600/4700 Threshold Analysis	5665-321/01						1210	176				2116	25K	
Ticketing	Fare Quote / Ticketing	5736-111	124850									.GH20-0873	ACP	01B	
Ticketing	Fare Quote / Ticketing Tariff Maint Feat	5736-111/01249900										.GH20-0873	6050,6031,6049	01B	
TIF	The Information Facility	5665-339										MVS,XA+VTAM+GDDM		25H	
TIF	The Information Facility	5798-DLK	20000					4280	1070	18000		GO26-6000	VM	25A	
TIF	The Information Facility XT/370	5798-DLK/01	2400										3038,3039	05C	
TIIF	Time Initiated Input Facility	5798-CMF	2745									.GB21-2255	IMS,V5 V1	15E	
Timberline	Timberline Accounts Payable	6871-490	990									.GB30-2037	PC,XT,AT	05Y	
Timberline	Timberline Architect/Engineer	6871-516	2800									.GB20-2037	PC,XT,AT	05Y	
Timberline	Timberline Estimating	6871-337	690									.GB20-2037	PC,XT,AT	05Y	
Timberline	Timberline General Ledger	6871-514	990									.GB20-2037	PC,XT,AT	05Y	
Timberline	Timberline Job Cost	6871-524	2390									.GB20-2037	PC,XT,AT	05Y	
Timberline	Timberline Payroll	6871-508	990									.GB20-2037	PC,XT,AT	05Y	
Timberline	Timberline Starter Set	6871-511	100									.GB20-2037	PC,XT,AT	05Y	
Timberline	Timberline TS-Reporter I	6187-230	190									.GB20-2037	PC,XT,AT	05Y	
Time	API VS Time Shared Input/Output Interfac	5798-DQE	3300									G320-0365	MVS,XA+API	15H	
Time	Commercial Bank Time Deposit Certificate	5746-F63										.GH20-2497	DOS,VSE+CBAS Base	15X	
Time	Executive Solutions	6024-151	69									.G520-3917	PC,XT,PCjr,PPC	05Z	
Time	EDX Time, Attendance and Scheduling Syst	5796-RNL	2300									.GB30-2098	Series/1	15X	
Time	Forecasting & Time Series Analysis - APL	5796-PFX	4620									12.G320-5664	APL5V,APL/CMS,VSAPL	11H	
Time	IX RM/COBOL tm Run Time Interpreter	6316-997	249									.S209-234	PC/IX	05H	
Time	Managing Time Effectively	6187-154	113										PC	05Y	
Time	Multivariate Time Series Analysis - APL	5796-PLX	4840									12.G320-6169	VSAPL	11H	
Time	Office System - Time From Displaywriter	5793-ABQ	2200									.GB20-2170	5798-AAZ+ABZ	05X	
Time	Office System - Time from OCR	5793-ABM	2200									.GB30-2170	5793-AAZ+ABZ	05X	
Time	Personal Decision Series - Client Time	6410-945	75										Data Edition	05X	
Time	Response Time Estimator (Feature 9231)	6316-968	275									.G320-0334	PC,PCjr,XT,3270-PC	05H	
+Time	Response Time Measurement Facility	5799-PAZ	200										System/36	15A	
+Time	Time & Material/Service Billing	5796-ZPK	3500									.GB30-6016	5727-M6X+M6A	15H	
Time	Time Initiated Input Facility	5798-CMF	2745									.GB21-2255	IMS,V5 V1	15E	
Time	Virtual System Time Shared I/O for VSAPL	5798-DEN										12.GB21-2741	T50,VSAPL	15X	
Time management	Personal Manager	5798-DLP	1650									.G320-9197	CICS+COBOL	15H	
Time management	Personal Manager	5798-DQJ	1650									.G320-9197	CICS+COBOL	15H	
Times	Monotype Times New Roman Cyrillic tm	5771-ACQ	3000									G520-0004	CDPF	15E	
Times	Monotype Times New Roman Language Extens	5771-ACX	3000									G520-0004	CDPF	15E	
Times	4250 Monotype Times New Roman tm	5771-AAR	640									G520-0004	CDPF (5668-997)	11E	
+Tissues	Cytology & Histology: Cells & Tissues	6024-407	65									G520-1107	PC,PCjr,XT,AT+color	05Z	
+Tissues	Cytology & Histology: Cells & Tissues	6024-437	295									G520-1107	PC,PCjr,XT,AT+color	05Z	
TIMAY	Title Insurance	5798-RNZ	550									.GB30-2247	Displaywriter	15X	
TIMAY	CAMM TIMAY tm Controller Offline	5793-ACY/09	500										6526	05Y	
TIMAY	CAMM TIMAY Controller Online	5793-ACY/15	3750									.GB30-2037	6528	05Y	
TIMAY tm	EDX to Texas Instruments (R) Controllers	5719-THA	5000									GC34-0099	5719-CF1	15H	
TI520 tm	EDX to Texas Instruments (R) Controllers	5719-THA	5000									GC34-0099	5719-CF1	15H	
TI530 tm	EDX to Texas Instruments (R) Controllers	5719-THA	5000									GC34-0099	5719-CF1	15H	
TK!Solver	TK!Solver (R) DEMO	6871-493	50										PC	05Y	
Im Source	Sonoran Sans Serif tm(Source or Object)	5771-ABB	640										G544-3088	PSF+3800/20/3812	25E

Keyword	Program Title	Number	OTC	ILC	MGC	DSO	DSI	DSM	MLP	MML	Mo	MoreInfo	Environment	TPLS
+Tm/File	INmail tm/INnet tm/File Transfer Program	5669-053	625										AIX tm on RT	05H
+Tm/INnet	INmail tm/INnet tm/File Transfer Program	5669-053	625										AIX tm on RT	05H
+Tm/86	Advanced NetWare tm/86 2.0a	6476-230	1595									GB30-2037	PC,XT,AT,3270-PC,jr	05Y
TMMS	EDX Telephone Message Management System	5799-TFY	1971									GH36-0250	Series/1	15H
TMMS/ROLM	EDX TMMS/ROLM CBX 9000 Interface	5799-THK	6420										TMMS	15H
-TMS/36	DW/36 Upgrade from TMS/36	5727-WP1/01	550			484							4769,9682	15A
TMS/36	Text Management System	5727-TX1	1500			1320						0580-0454	System/36	15X
TMS/36	TMS/36 Upgrade to DisplayWrite/36	5727-TX1/01	550										Order 5727-WP1/01	15
TMS/36 upgrade	DisplayWrite/36	5727-WP1	2000		133	1760						0580-0454	System/36	15A
Tobias'	Andrew Tobias's Managing Your Money	6187-279	197									GB30-2037	PC,XT,AT,PCjr	05Y
+Token	Asynchronous Server for Token & PC Netwk	1642-005	495										Token-Ring NETBIOS	05Z
+Token-Ring	Disk Operating System 3.2 8.25"	6280-057	95										PC,XT,PPC,AT,PCjr	05Z
+Token-Ring	Disk Operating System 3.2 3.5"	6280-058	95										PC,XT,PPC,AT,PCjr	05Z
Token-Ring	PC Support/36	5727-MS1	700			48	615					0580-0454	5727-LC1+S/36+AT	T1LM
Token-Ring	PC Support/36	5727-MS6	280				210					0580-0570	5727-LC6+5364	T0LM
Token-Ring	PC Support/36 Token-Ring Workstatn Feat	5727-MS1/01	1500			100	1320					0580-0454	6248	T1LM
+Token-Ring	PC Support/36 Token-Ring Workstatn Feat	5727-MS6/01	600				450					0580-0570	6181	T0LM
+Token-Ring	System/36 Local Area Network Communicatn	5727-LC1	925			75	8143						S/36+AT in a T-R net	15A
+Token-Ring	System/36 PC Local Area Network Communic	5727-LC6	695				521						5364+AT in a TRN	15M
+Token-Ring	Token-Ring Network Bridge Program	6403-831	1495									GA27-3677	2 TR Nets+AT,AT-Ind	05M
+Token-Ring	Token-Ring Network/PC Interconnect	6467-036	495										Token-Ring NETBIOS	05H
+Token-Ring	Token-Ring Network NETBIOS	6467-037	35										PC,PPC,XT,AT+adapter	05H
+Token-Ring	Token-Ring Network Bridge Install Kit	6476-041	3285									GA27-3677	2 TR Nets+AT,AT-Ind	05M
+Token-Ring	Token-Ring Network Manager	6476-046	1495									GA27-3677	PC,XT,AT+TR Net adpt	05M
+Token-Ring	3270-PC Emulation Program Version 3.0	59X9-969	475										PC,XT,AT	05Z
+Token-Ring	3270-PC Emulation Upgrade from Entry Lev	59X9-980	240										59X9904	05Z
-Token-Ring	3270-PC Emulation Upgrade from SNA 3270	59X9-981	75										6322526	05Z
-Token-Ring	3270-PC Emulation Upgrade from Ver 2.0	59X9-995	75										59X9951	05Z
+Token-Ring/PC	Token-Ring/PC Network Interconnect Progr	6476-036	495									GA27-3677	PC,XT,AT+Net adaptrs	05M
Tool	DPFX Performance Tool Monitor	5760-XR9	1850									GH20-2155	DPFX	13B
Tool	DPFX Performance Tool Reporter Feature	5760-XR5/01	2205		69							GH20-2155	4504,4505	15B
Tool	IBM Database 2 Performance ReportingTool	5660-286	5850		280							GC34-2145	DPFX/SP	15E
Tool	IBM Database 2 Performance ReportingTool	5798-DPY	5500		250							GS20-9202	DB2	15H
Tool	MVS Resource Utilization Tool	5798-DRF	2035									GS20-9229	MVS,XA	15H
Tool	Network Configuration Tool	5798-RLT	962									GB30-1991	System/38	15X
Tool	OS/VS1 Performance Tool	5796-PGL	6600		398							GS20-5680	OS/VS1	15X
Tool	Performance Measurement Tool	5799-BJK	1000									GC21-7958	System/38	05E
Tool	SQL/DS Relational Design Tool	5798-DQL	4400									GS20-0654	VSE,VM	15H
Tool	VSE Performance Tool	5796-PLQ	6300		285							GS20-6155	DOS/VS,DOS/VSE	15E
+Toolkit	Graphics Development Toolkit	5669-050	700									SV21-8058	RT AIX tm	05H
-Toolkit	Graphics Development ToolKit	6024-196	385									0520-1107	Replaced by 6280082	05Z
+Toolkit	Graphics Development ToolKit 1.1	6280-076	495										PC,XT,AT,PPC,PCjr	05Z
+Toolkit	Graphics Development Toolkit 1.1	6280-076/01	800										Redistribution Licen	05Z
-Toolkit	Graphics Devt ToolKit 1.1 Upg from 1.0	6280-082	250										6024196	05Z
+Toolkit	Programmers ToolKit Version 2 5.25"	5669-067	160										CSOS 2	05X
+Toolkit	Programmers ToolKit Version 2 8"	5669-067/01	160										4517	05X
-Toolkit	Topview Prog's Toolkit 1.1, Upg from 1.0	6024-456	132										6024133	05G
+Toolkit	Topview Programmer's Toolkit 1.1	6024-454	429										Topview 1.1	05G
+Toolkit	THE FIX OEM Toolkit	5793-AGQ/11	1250									GB30-2027	5793-AGM	05Y
-Tools	API Performance Analysis Tools	5796-PPJ	1185		90							GS20-6643	TSD,CMS,VSPC,CICS	15H

Keywords - Alphabetic Sequence

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Codes Explained in Appendix B

Keyword	Program Title	Number	OTC	ILC	MLC	DSO	DSI	DSH	MLP	MML	Mo	MoreInfo	Environment	TPLS
Tools	IMS/VS System Utilities/Data Base Tools	5668-856	20000									.GH20-6579	IMS/VS	25E
-Tools	Tools for Application Source Translation	5798-RJA	13660		620							.GB30-2027	System/34	15X
Topview	Cross System Product/Application Generat	6317-011	1519									.G520-6004	EZ-VU Runtime	05G
-Topview	Topview Upgrade from 1.0	6024-455	87										6024131	05G
-Topview	Topview Prog's Toolkit 1.1, Upg from 1.0	6024-456	132										6024133	05G
+Topview	Topview Programmer's Toolkit 1.1	6024-454	429										Topview 1.1	05G
+Topview	Topview 1.1	6024-453	175										PC,XT,AT,PPC	05G
Total	Harvard tm Total Project Manager	6871-481	495									.GB30-2037	PC,XT,AT	05Y
+Touch	Touch Typing for Beginners	6024-339	85									.G520-1107	PC,XT,AT,PCjr+color	05Z
+Touch	Touch Typing for Beginners	6024-363	385									.G520-1107	PC,XT,AT,PCjr+color	05Z
Touch-Tone	Touch-Tone - Audio Support	5798-NXX			201							12.GB30-1350	Series/1	15H
TPF2	ACP TPF2 / High Performance Option	5748-T12/02		21000	7000							.GH20-6200	2112,6080	25E
TPF2/ACF2	ACP Advanced Communication Function	5748-T12/01		8025	3075							.GH20-6200	2111,6081	25E
TPF2/ACF2	ACP Transaction Processing Facil 2.2	5748-T12			3210012300							.GH20-6200		25E
TPF2/HP0	ACP TPF2 / High Performance Option	5748-T12/02		21000	7000							.GH20-6200	2112,6080	25E
TPNS	Teleprocessing Network Simulator 2.3	5662-262			1875							.GH20-2487	MVS,XA,VM	11E
TPNS	Teleprocessing Network Simulator Ver 1	5740-XT4			1840							.GH20-1907	OS/VS	11B
TPNS interface	Network Performance Monitor Release 2	5665-333		3210	615		2410	460	57	91		.GH20-6359	MVS+VTAM	25K
-Trace	ACF/VTAME Trace Interpretation	5798-DKN	495									.GB21-3023	DOS/VSE	15X
Trace	CICS/VS Trace Transform Version 2	5799-HXD	nc										CICS/VS	N05C
Trace	FORTRAN 77 Interactive Compiler	6410-971	275									.G320-0345	PC/IX	05H
Trace	Generalized Trace Facility Analysis	5798-C0Q	2310		94							.GB21-2142	OS/VS, 5798-CPR	11E
-Trace	Mass Storage Trace SMF Correlation Aid	5796-PJX	3010		137							24.G320-5810	OS/VS,MVS/XA	11H
-Trace	TCAM Trace Analysis Report	5798-DGK	539		49							12.GB21-2860	OS/VS,ACF/TCAM	15H
-Trace	3704/5 EP Trace Editor Program	5798-CHZ	660		60							12.GB21-1822	DOS/VS,OS/VS,MVS/XA	11H
-Trace	3850 Trace Interpretation Package	5785-DBH	3300		250							.GB21-2561	MVS	11H
TRACK	FACT TRACK tm	6024-023	90									.G520-3917	PC	05Z
Tracker	Change Tracker	5740-DC4	4550		207							.GH19-6028	OS/VS	15C
Tracker	DOS File Tracker	6276-518	20										PC,XT, Jr,AT,PPC	05R
Tracking	Change Management Tracking	5740-DC1	12180		554							.GH19-6028	OS/VS	15C
-Tracking	DPPX Plant Floor Collect & Lot Tracking	5798-DFG	3750		341							12.GB21-2881	DPPX+3640	15H
Tracking	Government Reporting / Tracking Feature	5740-AMG/01			297							.GH20-2151	6125,6126	25B
+Tracking	Guaranteed Student Loan/Pell Tracking	5796-TCG	1500									.G520-9506	System/36	15I
-Tracking	Manufacturing Order Tracking Subsystem	5798-RCT	570		114							06.GB30-1536	System/34	15H
+Tracking	Projected/Actual Payment Tracking	5796-TBY	1500									.G520-9506	System/36	15I
+Tracking	Student Financial Tracking	5796-TCA	6750									.G520-9506	System/36	15I
Trade	Dues Assessment - Trade Assn	5796-ZJA	3850									.GB30-2352	5796-ZHZ	15X
Trade	Fund Raising/Development - Trade Assn	5796-ZJB	3300									.GB30-2352	5796-ZHZ	15H
Trade	Membership Data Base - Trade Assn	5796-ZHZ	7700									.BG30-2352	System/36	15X
Trade	Special Events - Trade Assn	5796-ZJD	3300									.GB30-2352	5796-ZHZ	15X
Trade	Subscription Fulfillment Trade Assn	5796-ZJC	3850									.BG30-2352	5796-ZHZ	15X
+Traffic	Auto Dealer - Traffic Control	5796-ZPF	1200									.GB30-6013	System/36	15H
+Traffic	Auto Dealer, Traffic, Upg from 5796-ZHF	5796-ZPF/01	50									.GB30-6013	System/36	15H
+Trail	Hopping Down the Math Trail	6276-633	20										PC,XT,PCjr,AT+color	05R
Trainings	ADE - Training Feature	5798-DDH/01	700									.GB21-2712	6020-6023	15X
-Training	APL Interactive Training Course	5796-PJH	1055		40							.G320-5812	5748-AP1	1EH
Training	ATI (R) Training for VisiCalc (R)	6071-282	75									.GB30-2037	PC	05Y
Training	Business Management Series AP Training	6410-960	95									.GH30-9016	General Ledger	05G
Training	Business Management Series AR Training	6410-961	95									.	Accounts Receivable	05G
Training	Business Management Series OE Training	6410-963	95									.	Order Entry	05G

Keyword	Program Title	Number	OTC	ILC	MLC	DSO	DSI	DSM	MLP	MHL	Mo	MoreInfo	Environment	TPLS
Training	Business Management Series Inv Training	6410-964	95										Inventory Accounting	OSG
Training	BPI Self Training Series - Accounts Paya	6187-256	70										PC	OSY
Training	BPI Self Training Series - Accounts Rec	6187-257	70										PC	OSY
Training	BPI Self Training Series - General Accto	6187-258	70										PC	OSY
Training	Computer Assisted Training I.2	5710-CAT	990									GB30-2253	System/36,S/36 PC	1SH
-Training	Computer-Assisted Training II	5798-NZA	715		143						06	GB30-1481	System/34	1EH
-Training	COBOL Interactive Debug Training II	5798-DFZ	1090									GB21-2825	IIS,IIPS	1EX
Training	DisplayWrite 2 Computer-Based Training	7732-281	250									G320-1244	PC,AT+DisplayWrite 2	OSC
*Training	DisplayWrite 3 Computer-Based Training	7732-284	300											OSC
Training	Document Composition Training	5796-PNE	1320									G320-6331	IIS,IIPS	1EH
-Training	Graphic Training Aid	5796-AYJ	8580									G320-6336	V51	1SH
Training	Hospital Info, In-service Training Modul	5727-AB1/03	5000		750							S830-7049	6244	1SH
-Training	IHS/V5 Message Format Services Training	5798-KY	3190		242							GB21-1933	IIS,IIPS	1EH
Training	Personal Teaching Aid	5726-PT1	600									G580-0534	System/34	1SX
Training	PL/I Programming Training	5798-CRJ	3265		246							GB21-2187	IIS,IIPS	1EH
-Training	STAIRS/V5 Training Course	5796-PLF	3300		250							G320-6078	IIS,IIPS	1EH
-Training	3033 AP/MP Operator Training	5798-DFA	1385									GB21-2769	IIS,IIPS	1EH
-Training	3276 / 3278 Operator Training Course	5798-CHZ	2115									GB21-2290	IIS,IIPS	1EH
Training	5280 Computer-Assisted Training	5798-RLF	550									GB30-1923	5280 Data System	1SX
-Trans	PC/3600 Trans Documentor & Xref	5796-ATR				150						G320-6067	DOS/V5,OS/V5,CICS/V5	1SH
Transaction	ACP Transaction Processing Facil 2.2	5748-T12				3210012300								2SE
Transaction	ACP Transaction Processing	5799-WQP	nc									GH20-2140	5748-T11	NOSE
Transaction	DPPX Data Base Transaction Management	5760-TD1	4400		173	3740		147	20	32		GC26-3915	DPPX	1SK
Transaction	DPPX 3640 Interactive Transaction Gener	5660-267/01	8845		340	7510		289	52	83		GC31-0010	6002,6003,6012,6013	1SK
Transaction	EDX High-Level Language Transaction	5798-RJF	660									GB30-1896	Series/1	1SX
Transaction	EDX Indust Terminals - Transaction Test	5798-RRD	1980									GB30-2332	Series/1	1SX
Transaction	EDX Transaction Processing System 1.2	5719-TR1	2950									SC34-0605	Series/1	1SM
Transaction	RPS Transaction Processing System 1.2	5719-TR6	2950									SC34-0603	Series/1	1SM
+Transaction	Transaction Processing Services Rel 1	5732-006	6140									SC34-0670	System/88	1SM
Transaction	Transaction Switching Facility	5798-RKC	3135									GB30-1871	Multiple System/38s	1SX
-Transaction	3650 Retail Transaction Staging	5798-DDQ	2595		236						12	GB21-2703	OS/V5,V5E 5748-D14	1SH
Transactions	ACP / ACF Transactions	5748-T11/01				3060						GH20-2140	6041	2SE
-Transactions	Simultaneous Printing 3650 Transactions	5798-CZK	297		27						12	GB21-2469	DOS/V5	1SH
Transactions	3614 3624 Consumer Online Transactions	5740-F51	22900		802							GH20-2019	OS/V5	1TB
Transactions	3614 3624 Consumer Online Transactions	5746-F57	21150		741							GH20-2019	DOS/V5E	1TB
TranscientAnal	Engineering Simulation Program	6317-031	439									G320-0821	PC,XT,AT+8087+FORTRA	OSH
Transcription	DPPX Spool Output Transcription	5798-DHW	660									GB21-2926	DPPX	1SX
Transfer	Batch Transfer Program	5744-CG1	nc									GC33-5901	OS/V51	NO5C
Transfer	Batch Transfer Program	5744-CG2	nc									GC33-5901	MVS	NO5C
Transfer	Batch Transfer Program	5744-CH1	nc									GC33-5901	SVS	NO5C
Transfer	Batch Transfer Program	5747-BH1	nc									GC33-5900	DOS/V5	NO5C
Transfer	Bulk Data Transfer	5796-PKK	1580		60							G320-6060	OS/V52	1SH
Transfer	Cross Domain Network Data Transfer	5798-DAE	1320									GB21-2498	Replaced by 5668-932	1SH
Transfer	CICS to 3270-PC File Transfer Program	5798-DQH	660									G320-0369	CICS+3270-PC CP	1SH
+Transfer	Data Interfile Transfer, Testing & Opns	5665-370				270						SH19-6112	MVS,XA	1SM
Transfer	Data Interfile Transfer, Testing, Opns	5746-UT3	968		44	748		34	5	8		GH19-6072	DOS/V5E	1SK
-Transfer	Distributed Data Transfer - Host	5798-DCA	1210		110						12	GB21-2594	OS/V5,DO5+5798-DCF	1SH
-Transfer	DPPX Distributed Data Transfer	5798-DCF	242		22						12	GB21-2594	5798-DCA	1SH
Transfer	DPPX Peer Data Transfer	5798-DJM	693									GB21-2961	DPPX	1SH
Transfer	DPPX/SP to 3270-PC File Transfer	5799-BRP	nc										DPPX and 3270-PC	NO5E

Keywords - Alphabetic Sequence

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Codes Explained in Appendix B

Keyword	Program Title	Number	OTC	ILC	MLC	DSO	DSI	DSH	HLP	HML	Mo	MoreInfo	Environment	TPLS
Transfer	File Transfer Express	6317-001	79									.3209-242	3270-PC CP+DOS 2.0	05H
+Transfer	File Transfer Program Version 2.2	5664-315	11250		450	8437		337				.GH12-5141	VM+VTAM	25M
Transfer	File Transfer Program Version 2.2	5668-932	11250	1500	450	8437	1125	337	90	144		.GH12-5141	VM,VSE+VTAM	15K
Transfer	File Transfer Program Version 1	5748-XE6	1415		55	1060		40	5	8		.GH12-5129	Replaced by Version2	15K
Transfer	HASP-JES2 Spool Transfer Program	5798-CXJ	3165		480							.GB21-1903	OS/MFT/MVI/SVS/MVS	01H
+Transfer	InMail tm/InNet tm/File Transfer Program	5669-053	625										AIX tm on RT	05H
Transfer	MVS/Bulk Data Transfer	5665-302		5340	1335		40041001	454	726			GC28-1313	MVS+VTAM	25K
Transfer	Plant Auto Comm Sys/Mod Transfer Facilit	5798-RNN	1900									.G320-0836	MVS+VTAM+EDX on S/1	15H
Transfer	PC to System/36 Transfer Facility	5799-BRL	950										Replaced by 5727-WS1	05Z
Transfer	PC to System/38 Transfer Facility	5799-BTZ	950										PC+S/38	05Z
+Transfer	PC/HOST File Transfer and 3270 Emulation	6476-052	200									G520-6037	MVS,VM,CICS	05Z
Transfer	RJE File Transfer - DPPX to PC 3270 Emu	5799-BRQ	1010									GC23-0630	6024-036	05E
-Transfer	System/34 to 5280 Report Transfer	5798-RDB	330									.GB50-1581	System/34	15X
-Transfer	STAIRS to ATMS Transfer Extended	5798-DEE	1265		115						12	.GB21-2731	CICS/OS-DOS/VS	15H
Transfer	3101 Emulation and Document Transfer	5798-RRE	330									.GB30-2303	Displaywriter	15X
Transfer	3270-PC File Transfer Program	5664-281	600									G520-3917	VM+3270-PC CP	15E
Transfer	3270-PC File Transfer Program	5665-311	600									G520-3917	1837-434	13E
-Transfer	3277 Emulation / Document Transfer	5799-BKG	550									GA09-1679	5799-BKE	05H
-Transfer	3760 Batch Data Transfer under CICS/VS	5798-CQB	2110		192						12	.GB21-2112	EXTM,TCAM,VTAM	15H
Transform	CICS/VS Trace Transform Version 2	5799-HXD	nc										CICS/VS	053E
Transient	EDX COBOL Transient Library Version 2	5719-CB6	601		21							GC34-0389	Series/1	15X
Transient	EDX PL/I Transient Library	5719-PL6	1370		37							GC34-0146	Series/1	15C
Transient	PL/I Transient Library	5666-277			35			25	7	11		GC33-6143	SSX/VSE	15K
Transient	PL/I Transient Library Release 5.1	5734-LM5			37			27	7	11		GC33-0001	MVS,XA+DFP,CICS,VM	15K
Transient	PL/I Transient Library XT/370	5734-LM5/01	192		4							300L,3006		05C
Transient	PL/I Transient Library Release 6	5736-LM5			34			25	7	11		GC33-0004	DOS,DOS/VS/VSE,CMS	15K
Transient	RPS COBOL Transient Library Version 2	5719-CB8	601		21							GC34-0591	Series/1	15X
Transient	RPS PL/I Transient Library Version 2	5719-PL4	1370		37							GC34-0282	Series/1	15C
-Transit	Proof-of-Deposit / Transit	5798-NWH	2075		189						12	.GB30-1141	System/34	15H
Translation	All Items File Translation Facility 3694	5798-RFJ	1210		110						12	.GB30-1645	System/34+5748-F53	15X
Translation	All Items File Translation Facility 3694	5798-RQH	1650									.GB30-2238	S/36+5748-F53	15X
-Translation	COBOL Conversion Aid to System/38	5798-NXN	632									.GB30-1362	System/3	05H
Translation	RPS Address Translation Version 3	5799-TBY	180		3								Series/1	05C
Translator	CPS Address Translator Support	5799-TBT	144		7						24	GC34-1601	Series/1	15C
Translator	Fastdraft to IGES Translator	5796-BFB		2285	251						24	OS/VS,VM/SP		15X
Translator	Structured Assembler Translator	6276-550	35										PC,XT,Jr,AT,3270-PC	05R
TRANSLATOR	Burroughs (R) COBOL 1800-1900	5796-PXY	46200									.G320-9204	MVS+ISPF	05H
TRANSLATOR	Burroughs COBOL 2000-4900	5796-PYL	46200									.G320-9204	MVS+ISPF	05H
TRANSLATOR	Burroughs COBOL 5, 6 & 7000	5796-PYN	46200									.G320-9204	MVS+ISPF	05H
TRANSLATOR	Honeywell (R) 200 COBOL	5796-PZZ	46200									.G320-9204	MVS+ISPF	05H
TRANSLATOR	Honeywell 2000 COBOL	5796-PPF	46200									.G320-9204	MVS+ISPF	05H
TRANSLATOR	Univac (R) 9000 COBOL	5796-PYA	42000									.G320-9204	MVS+ISPF	05H
TRANSLATOR	Univac (R) 1100 COBOL	5796-PYQ	46200									.G320-9204	MVS+ISPF	05H
TRANSLATOR	Univac (R) System 80 COBOL	5796-PYR	46200									.G320-9204	MVS+ISPF	05H
Translator	UCC THO VSE to MVS Migration Aid	5796-PWH	49500									.G320-9190	VSE+MVS,XA	15H
-Transmit	Data Collection Edit & Transmit	5798-RXC	1820		138						12	.GB30-1552	Series/1	15H
Transport	Passive Transport, Diffusion and Osmosis	6024-320	65									G520-1107	PC,PCjr,XT,AT,PPC	05Z
Transport	Passive Transport, Diffusion and Osmosis	6024-389	295									G520-1107	PC,PCjr,XT,AT,PPC	05Z
-Travel	Travel Agency Management and Accounting	5796-ZEY	11000		500							.GB30-2305	Sys/23 Datamaster	15H
Travel Agencies	EDX Communications Facility - Airlines	5798-ZZE	1210		55						24	.GB30-1550	Series/1	15X

Keyword	Program Title	Number	OTC	ILC	MLC	DSO	DSI	DSH	MLP	MHL	Mo	MoreInfo	Environment	TPLS
+Trending	THE FIX Historical Trending	5793-AGQ/16	650									GB30-2027	6598	05Y
+Trending	THE FIX Historical Trending	5793-AGW/05	650									GB20-2037	6598	05Y
Trivia	Sports Trivia from Billiards to Baseball	6276-608	20										PC,XT,jr,AT,3270-PC	05R
Trivia	Trivia 102	6276-599	20										PC,XT,jr,AT,3270-PC	05R
Trivia	Trivia 103 (Challenges for Young People)	6276-610	20										PC,XT,jr,AT,3270-PC	05R
Trivia	J-K Trivia	6276-516	20										PC,XT,jr,AT	05R
Trng	Business Management Series Payroll Trng	6410-962	95										Payroll	05G
*Trng	Using EDX and EDL (Computer Based Trng)	7732-907	varies									SR20-8720	Series/1	V05C
TRY-COPICS	TRY-COPICS	7798-COP	nc										Information Network	N05C
TS-Reporter	Timeline TS-Reporter I	6187-230	190									GR20-2037	PC,XT,AT	05Y
TS0/E	TS0/E - MVS/XA Feature	5665-285/01		1500	555		1125	416	108	173		GC28-1061	4528,6503	25K
TS0/E	TS0/Extensions	5665-285		1500	500		1125	375	87	139		GC28-1061	MVS,XA+DFP	25K
TS0/E	VSPC Migration Aids to TS0/E	5798-DPE	2145									G320-9166	5665-283	15X
TS0/Extensions	TS0/Extensions	5665-285		1500	500		1125	375	87	139		GC28-1061	MVS,XA+DFP	25K
TS0SERV	TS0 Host Server for PC XT/370 (VM/PC)	5798-DT1	2420									G520-3917	MVS+VTAM	15H
TTY 33/35	X.25 MCP Packet Switching Interface 4.3	5668-981		770	269		557	202	40	64		GC30-3189	3720/25+NCP 4.2	25K
Tube	Storage Tube Simulator	5668-820	2750		300							GC34-4033	VM+GDDM+FORTRAN	15E
-Tube	3277 Graphics Attachment Storage Tube	5798-DA0	616		56							12.0821-2503	MVS,MVS/XA,VM/CMS	15H
Tuning	IMS/DBT DEDB Tuning Aid	5668-856/06	836										.4743	25E
TURBO	TURBO PASCAL	6187-326	70									GB30-2037	PC,XT,AT,PCjr	05Y
Turnbull	CAMM Turnbull Controller Offline	5793-AEY/10	500										6512	05Y
Turnbull	CAMM Turnbull Controller Online	5793-AEY/16	1750									GB30-2037	6516	05Y
Turtle	LOGO (R) with Turtle Graphics	6024-076	175									0520-3917	PC,PCjr	05Z
Turtle	Turtle Power (Feature 4109)	6024-109	55									0520-3917	PC,PCjr,PT	05Z
Turtle	Turtle Power Activity Book	6024-079	15									0520-1107	Turtle Power PC,AT	05Z
Turtle	Turtle Power Thinker's Guide	6024-167	11									0520-1107	Turtle Power	05Z
Tutor	Algebra Tutor	6276-529	30										PrivTutor or 6276602	05R
Tutor	Basic Number Concepts (Private Tutor)	6024-297	55									0520-1107	PC,PCjr,XT,AT,PPC	05Z
Tutor	BASIC - A Private Tutor	6024-081	39									0520-3917	PC	05Z
Tutor	FORTRAN Tutor	6276-567	20										PrivTutor or 6276602	05R
Tutor	Math Computation Skills (Private Tutor)	6024-305	55									0520-1107	PC,PCjr,XT,AT,PPC	05Z
Tutor	Private Tutor Presenter 1.1	6276-602	20										PC,XT,jr,AT,3270-PC	05R
+Tutor	Private Tutor Series - Spell Facts	6276-627	20										6024113 or 6276602	05R
Tutor	Private Tutor Version 1	6024-052	55									0520-3917	PC	05Z
Tutor	Private Tutor Version 2	6024-113	55									0520-1107	PC,XT,PCjr,PPC+D052+	05Z
Tutor	PC Tutor tm	6871-287	59									GB30-2037	PC	05Y
Tutor	Solving Math Word Problems (Priv Tutor)	6024-308	55									0520-1107	PC,PCjr,XT,AT,PPC	05Z
Tutor	Typing Tutor (Diskette Version)	6024-613	29									0520-3917	PC	05Z
Tutor	Vocabulary Building Skills (Priv Tutor)	6024-326	55									0520-1107	PC,PCjr,XT,AT,PPC	05Z
Tutor	Word Knowledge Skills (Private Tutor)	6024-327	55									0520-1107	PC,PCjr,XT,AT,PPC	05Z
Tutor	Writing Private Tutor Courses for the PC	6024-078	14									0520-1107	PC,XT,AT,PCjr,PPC	05Z
Tutorial	Doctor's Office Demo & Tutorial	6360-486	nc									0520-3917	IBM Internal	N05Z
Tutorial	Harvard tm Total Project Manager	6871-481	495									GB30-2037	PC,XT,AT	05Y
+Tutorial	REVELATION tm Tutorial	6187-262	25									GB30-2037	REVELATION	05Y
+Tutorial	Salt-Teach_The Online XEDIT Tutorial	5798-DWH	1500									G320-9499	VM	25H
Tutorial	Tutorial Set	6871-330	94									GB30-2037	PC	05Y
TH0	UCC TH0 VSE to MVS Migration Aid	5796-PWH	49500									G320-9190	VSE+MVS,XA	15H
-Type	MANYFONT Text Processing Type Faces	5796-PPE	1450			132						12.G320-6634	DCF	15H
Type	Type Faces tm	6871-333	95									GB30-2037	PC,3270-PC	05Y
Type-I	DOS Type-I Programs Running with DOS/VS	5731-AA1	nc										DOS/VS	N05S

Keywords - Alphabetic Sequence

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Codes Explained in Appendix B



Keyword	Program Title	Number	OTC	ILC	MLC	DSO	DSI	DSM	MLP	MHL	Mo	MoreInfo	Environment	TPLS
Typefont	Composed Document Printing Facility	4250 5668-997	4800		342					49	78	GC33-6133	SCRIPT and/or GDDM	15K
-Typefont	MANFONT Texts Processing Type Faces	5796-PPE	1450		132							12.G320-6634	DCF	15H
Typefont	4250 Candida tm	5771-AAD	480									G520-0004	CDPF (5668-997)	11E
Typefont	4250 Excelsior tm	5771-AAO	480									G520-0004	CDPF (5668-997)	11E
Typefont	4250 Futura tm	5771-AAH	960									G520-0004	CDPF (5668-997)	11E
Typefont	4250 Helvetica tm	5771-AAK	960									G520-0004	CDPF (5668-997)	11E
Typefont	4250 ITC Avant Garde Gothic tm	5771-AAA	640									G520-0004	CDPF (5668-997)	11E
Typefont	4250 ITC Souvenir tm	5771-AAQ	640									G520-0004	CDPF (5668-997)	11E
Typefont	4250 Monotype Baskerville tm	5771-AAB	640									G520-0004	CDPF (5668-997)	11E
Typefont	4250 Monotype Bodoni tm	5771-AAC	640									G520-0004	CDPF (5668-997)	11E
Typefont	4250 Monotype Century tm	5771-AAE	640									G520-0004	CDPF (5668-997)	11E
Typefont	4250 Monotype Century Schoolbook tm	5771-AAF	640									G520-0004	CDPF (5668-997)	11E
Typefont	4250 Monotype Garamond tm	5771-AAJ	640									G520-0004	CDPF (5668-997)	11E
Typefont	4250 Monotype Rockwell tm	5771-AAP	640									G520-0004	CDPF (5668-997)	11E
Typefont	4250 Monotype Times New Roman tm	5771-AAR	640									G520-0004	CDPF (5668-997)	11E
Typefont	4250 Optima tm	5771-AAL	640									G520-0004	CDPF (5668-997)	11E
Typefont	4250 Palatino tm	5771-AAN	640									G520-0004	CDPF (5668-997)	11E
Typefont	4250 Typewriter and Pi tm	5771-AAN	800									G520-0004	CDPF (5668-997)	11E
Typefont	4250 Univers tm	5771-AAT	1280									G520-0004	CDPF (5668-997)	11E
+TypeStyles	PC Picturepak tm - TypeStyles	6476-222	195									GB30-2037	Storyboard	05Y
Typewriter	Typewriter and Pi Version 2	5771-ADH	1100									G520-0004	CDPF	15E
Typewriter	Typewriter and Pi Upgrade from Ver1 to 2	5771-ADH/01	310									4518		B5E
Typewriter	4250 Typewriter and Pi tm	5771-AAH	800									G520-0004	CDPF (5668-997)	11E
+Typing	Touch Typing for Beginners	6024-339	85									G520-1107	PC,XT,AT,PCjr+color	05Z
+Typing	Touch Typing for Beginners	6024-363	385									G520-1107	PC,XT,AT,PCjr+color	05Z
Typing	Typing INSTRUCTOR	6404-005	50									GB30-2037	PC,XT,PCjr	05Y
Typing	Typing Tutor (Diskette Version)	6024-015	29									G520-3917	PC	05Z
T3	T3 tm Scientific Word Processing System	6187-281	595									GB30-2037	PC,XT,XT/370,AT,RT	05Y
UB82 claims	Patient Care System - Patient Accounting	5668-913	165000	7500								GH20-6351	5796-BBF+BCE+BCF	15E
UCC	UCC TH0 VSE to MVS Migration Aid	5796-PMH	49500									G320-9190	VSE+MVS,XA	15H
UCC TH0	JCL Conversion Aid from VSE to MVS or XA	5798-DPH	11000	500								G320-0440	VSE and MVS	15H
UCC2	UCC TH0 VSE to MVS Migration Aid	5796-PMH	49500									G320-9190	VSE+MVS,XA	15H
-UDACS	Universal Dump, Alter, Copy, & Select	5796-BAF		50								12.G320-6405	OS/V5	15H
UltraCalc	IX UltraCalc (R)	5796-TAM	10000									.SH20-6938	IX/370	15H
UltraCalc	IX UltraCalc (R)	6317-039	350									G320-0975	PC/IX	05H
UltraCalc	IX UltraCalc (R)	6317-040	395									G320-0975	XENIX tm	05H
-Underscore	Overstrike / Underscore - 3270 BSC	5799-BQH	87									G544-2279	DH+5608-SR6	05E
Understanding	Understanding Personal Interaction Style	6187-155	88									PC		05Y
+UNIEDIT	UNIRAS tm UNIEDIT	5669-117	2595										RASPAC/RASPAC SOLIDS	05Y
+UNIGRAPH	UNIRAS tm UNIGRAPH	5669-114	2995										RT AIX	05Y
+UNIMAP	UNIRAS tm UNIMAP	5669-102	7650										RT AIX	05Y
+UNIRAS	UNIRAS tm BIZPAK	5669-115	2595										RASPAC/RASPAC SOLIDS	05Y
+UNIRAS	UNIRAS tm GEODIN	5669-110	1595										GEOPAK	05Y
+UNIRAS	UNIRAS tm GEOPAK	5669-109	6995										RASPAC/RASPAC SOLIDS	05Y
+UNIRAS	UNIRAS tm GIMAGE	5669-112	2595										SEISPAK	05Y
+UNIRAS	UNIRAS tm KRIGPAK	5669-111	3550										GEOPAK	05Y
+UNIRAS	UNIRAS tm RASPAC SOLIDS	5669-101	4995										RT AIX	05Y
+UNIRAS	UNIRAS tm RASPAC	5669-108	3550										RT AIX	05Y
+UNIRAS	UNIRAS tm SEISPAK	5669-113	7650										RASPAC/RASPAC SOLIDS	05Y
+UNIRAS	UNIRAS tm UNIEDIT	5669-117	2595										RASPAC/RASPAC SOLIDS	05Y

Keyword	Program Title	Number	OTC	ILC	MLC	DSO	DSI	DSM	MLP	MML	Mo	MoreInfo	Environment	TPLS
+UNIRAS	UNIRAS tm UNIGRAPH	5669-114	2995										RT AIX	05Y
+UNIRAS	UNIRAS tm UNIMAP	5669-102	7650										RT AIX	05Y
Unit	Cryptographic Unit Support	5740-XY6	11000			390	8250						OS-VS,MVS/XA	15K
United	These United States	6276-509	20										PC,XT, Jr,AT,3270-PC	05R
Units	Metric III - Units of Measurement	6871-518	49									.GB30-2037	PC,XT,PCjr	05Y
Units	Metric IV - Linear Units (Feature 9329)	6871-519	49									.GB30-2037	PC,XT,PCjr	05Y
-Univ	Coll & Univ Business Sys- Student Aid	5796-RHR	3960									.GB30-1747	System/34+5796-RHM	15X
-Univ	Coll & Univ Business Sys- Financial Acct	5796-RRT	6380									.GB30-1747	System/34	15X
-Univ	Coll & Univ Business Sys- Student Record	5796-RHM	6380									.GB30-1747	System/34	15X
-Univac	COBOL Conversion Aid from Univac (R)	5785-JAC	3300									.GB21-2763	DOS/VSE OS/V5	05H
Univac	TRANSLATOR Univac (R) 9000 COBOL	5796-PYA	42000									.G320-9204	MVS+ISPF	05H
Univac	TRANSLATOR Univac (R) 1100 COBOL	5796-PYQ	46200									.G320-9204	MVS+ISPF	05H
Univac	TRANSLATOR Univac (R) System 80 COBOL	5796-PYR	46200									.G320-9204	MVS+ISPF	05H
Univac 9030	COBOL Conversion Aid	5798-RGT	1430									.GB30-1764	System/38	05X
Univers	Oron tm and Univers (R)	5771-ACL	1500									.G520-0004	CDPF	15E
Univers	Univers Condensed tm	5771-ACA	640									.G520-0004	CDPF	15E
Univers	Univers Cyrillic tm	5771-ACP	3000									.G520-0004	CDPF	15E
Univers	4250 Univers tm	5771-AAT	1280									.G520-0004	CDPF (5668-997)	11E
-Universal	Universal Billing - Site	5799-TDR	1875			84							5799-TDT	05C
-Universal	Universal Billing - Host	5799-TDT	4580			205							Series/1	05C
-Universal	Universal Dump, Alter, Copy, & Select	5796-BAF				50						12.G320-6405	OS/V5	15H
Universities	Admissions for Colleges & Universities	5796-PXA	6820									.G320-9194	System/38	15H
Universities	Development for Colleges & Universities	5796-PXB	6820									.G320-9194	System/38	15H
+UNIX	Academic Information System 4.2	5799-CGZ	1715										RT	05C
+UNIX tm	Advanced Interactive Executive tm	5669-061	3400									.GC23-0784	RT	05H
+UNIX tm	AIX Virtual Resource Manager	5669-060	1000									.GC23-0784	RT	05H
UNIX tm	Interactive Network and Message System	6410-976	329									.G320-0346	PC/IX	05H
UNIX tm	PC Interactive Executive	1755-369	989									.GH20-6247	PC,XT,XT/370,AT+10MB	05E
UNIX tm	Series/1 Interactive Executive	5719-UN1	6500									.G434-0298	4956 Processor	13L
UNIX tm	Series/1 Terminal Interface (to VM/IX)	5799-BX1	3400									.GH20-6410	VM/IX+FDX ASCII term	35E
UNIX tm	Virtual Machine Interactive Executive	5799-BXN	4700									.GH20-6410	VM+STIPS (5799-BXN)	35E
UNIX tm ver 7	XENIX tm (Preinstalled on l-side hardisk	6331-443	395									.GC22-9248	System 9000	05E
UNIX tm Ver7	C (programming language compiler)	6871-466	350									.GB30-2037	PC,XT,3270-PC	05Y
UNIXtm System	Interactive Executive for System/370	5667-126	10000									.GC33-6207	VM+Series/1	T2K
+Unlimited	CATIA (R) Base 2.2 Unlimited CSTU	5668-760/01		4125	1375		2895	965					4800,2230	T15E
+Unlimited	CATIA (R) Numerical Ctl Unlimited CSTU	5668-835/01			288								4723,2203	T15E
+Unlimited	CATIA (R) 3D Design Unlimited CSTU	5668-761/01		2100	700		1470	490					4802,2240	T15E
+Unlimited	RS/1 tm Unlimited CSTU	5664-316/03144000										.G320-0840	4731,4732,4733,4734	T15E
Unload/Reload	IMS/DBT DEDB Unload/Reload	5668-856/07	2445										.4744	.25E
+Unltd	CATIA (R) Drafting Unltd CSTU	5668-837/01		3210	1070		1070	750					4727,2207	T15E
+Unltd	CATIA (R) Kinematics 2.2 Unltd CSTU	5668-835		1410	470		993	331					CATIA Base	15E
+Unltd	CATIA (R) Robotics 2.2 Unltd CSTU	5668-836		1725	575		1215	405					CATIA Base	15E
+Unltd	CATIA (R) Solids Geometry 2.2 Unltd CSTU	5668-834		1725	575		1215	405					CATIA Base	15E
+Up/Downline	Allen-B PLC-2 Ladder Up/Downline Loading	5793-ACX/01	350										Industrial PC	05Y
+Updates	ISPF/PC II Devt Nonsubscriber Updates	6265-485	55									.G520-6006	6317026	05G
+Updates	ISPF/PC II Runtime Subscriber Updates	6265-486	30									.G520-6006	6317025	05G
+Updates	ISPF/PC II Runtime Nonsubscrbr Updates	6265-487	55									.G520-6006	6317025	05G
+Upgr	Auto Dealer Acctg, Upgr from 5796-ZGX	5796-ZNX/01	1875									.GB30-6013	System/36	15H
Upgr	Capacity Reqtg Plannng - Upgr from MAPICS	5714-M7G/01	2790				2455						.4634,9623	15E
Upgr	Cross Applic Sys Suppt- Upgr from MAPICS	5714-M7X/01	2420			120	1230						.4623,9623	15E

Keywords - Alphabetic Sequence

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Codes Explained in Appendix B

Keyword	Program Title	Number	OTC	ILC	MLC	DSO	DSI	DSM	HLP	HML	Mo	MoreInfo	Environment	TPLS	
Upgr	DOS Tech Ref (Book) Upgr from 2.1 or 3.0	6279-955	65									G520-1107	DOS 3.1	OIZ	
+Upgr	Fixed Asset Acctg - Upgr from 5798-RJG	5798-RMT/01	600									.GB30-6010	4408,9049	15H	
Upgr	Info Sys for Attnys Upgr from 5793-AFZ	5793-AFX/01	2100									.	4535	05H	
Upgr	Info Sys for Attnys Upgr from 5793-AGA	5793-AFY/01	1600									.	4533	05X	
Upgr	Info Syst for Attny - Upgr from 5793-ADR	5793-AEF/01	20									.GB30-6001	4501	05H	
Upgr	Info Syst for Attny - Upgr from 5793-ADT	5793-AEG/01	925									.	4517	05H	
Upgr	Info Syst for Attny - Upgr from 5793-ADH	5793-AEH/01	1600									.GB30-6001	4515	05H	
Upgr	Info Syst for Attny - Upgr from 5793-ADX	5793-AEJ/01	1600									.GB30-6001	4513	05H	
Upgr	Info Syst for Attny - Upgr from 5793-ADY	5793-AEK/01	160									.GB30-6001	4511	05H	
Upgr	Info Syst for Attny - Upgr from 5793-ADZ	5793-AEL/01	395									.GB30-6001	4509	05H	
Upgr	Info Syst for Attny - Upgr from 5793-AEA	5793-AEN/01	1615									.GB30-6001	4507	05H	
Upgr	Info Syst for Attny - Upgr from 5793-AEB	5793-AEP/01	1960									.GB30-6001	4505	05H	
Upgr	Info Syst for Attny - Upgr from 5793-AED	5793-AEQ/01	4375									.GB30-6001	4503	05H	
Upgr	Inv Mgt for Process - Upgr from 5727-M75	5727-M7M/02	15500			13640						.	4082,9734	15E	
Upgr	Inv Mgt for Process - Upgr from 5727-M75	5727-M7M/03	11300			9944						.	4083,9735	15E	
Upgr	Inven Mgt for Proc - Upgr from 5727-M45	5727-M7M/01	17500			15400						.	4081,9733	15E	
-Upgr	Mainframe Comm Asst 1.05 Upgr from 1.0	6024-469	85									.	6024140	05Z	
Upgr	Material Repts Planng - Upgr from MAPICS	5714-M7B/01	3290									2895	4631,9621	15E	
Upload/Download	CICS to 3270-PC File Transfer Program	5798-DQH	660										G320-0369	CICS+3270-PC CP	15H
-US	US Geographic Demographic System	5798-DJQ	2365										.GB21-3020	VM/CMS,MVS/TSO,GDDM	15X
Usability	6670 Usability Aid	5798-DQF	5500		250								G320-0368	VM+6670	15H
Use	DOS 2 Learning to Use	6024-080	15										G520-3917	PC	05Z
+User	CATIA (R) Interactive User Access	5798-DVQ			3000	1000							SH20-0072	CATIA Base	15H
User	CPCS Installed User Educational Guide	5796-001	2700										G320-5807	5734-F11	05H
User	CPCS User Editing	5798-DMG	2915										.GB21-3046	05/VS	15X
User	DOSCHECK Installed User Education Guide	5796-002	1700										G320-6086	5746-F12	05H
+User	MICR User Editing - CHX/3694, CHX/VS	5798-DRE	7500										G320-9250	05/VS,V5E	25H
User	3694 Debug Test Aid for User Edit Progs	5798-DNJ	1100										.GB21-3119	V5E,05/VS	15X
+User's	THE FIX User's Guides Set	5793-AQQ/12	125										GB30-2027	5793-AGH	05Y
Util	FORTRAN Util Current licensees	5798-DFH/01	450										.GB21-2796	9587,8	RI5X
Utilities/Data	IMS/VS System Utilities/Data Base Tools	5668-856	20000										GH20-6579	IMS/VS	25E
+Utilities/36	Business Graphics Utilities/36	5727-B01	800			704							G580-0454	S/36 (5360/2)	15A
+Utilities/36	Business Graphics Utilities/36	5727-B06	320			240							G580-0454	S/36 PC 5364	15A
Utilization	MVS Resource Utilization Tool	5798-DRF	2035										G320-9229	MVS,XA	15H
Utilization	Workstation Utilization Analysis	5798-RRX	495										.GB20-0361	System/36	15X
Val	Inv Mgmt Prod Rep & Ord Val Eval Improve	5714-D46	9975		349	7475	261						.GH50-0080	System/38	11D
Value	LDMS Normal Value / Delta Checking	5798-DCH	4715		429							12	.GB21-2602	5796-APB,5796-ANC	15H
Variance analysis	STAT/PC-LIBRARY tm	6187-271	640										.GB50-2037	PC,XT,AT,RT	05Y
VAX tm	SmartTerm to 100 VT-52,VT-100,VT101,VT102	6294-110	165										GC22-9269	CS05+5.25" diskette	05W
YDI	Plotting System	6024-204	245										G520-1107	PC,PPC,XT,AT+DOS2.1+	05Z
Vector	Vector Processing Subsystem / XA	5665-301	50000			37500				58	93		GC28-1204	MVS/XA+5838	15K
+Vector	Vector Processing Subsys/ Vector Facilit	5665-368	40000			30000							GC23-0625	Vector Facility	15E
+Vector	Vector Processing Subsys/ Vector Facilit	5665-368	40000			30000							GC23-0625	Vector Facility	15E
Vector	Vector Processing Subsystem	5744-CK2	nc										GC24-5182	05/VS+3838	NO5S
+Vector	3090 Vector Facility Simulator	5798-DHF	9500										GC23-0340	VM	15H
+Veh	Auto Dealer, Veh Ctl, Upg from 5796-ZHG	5796-ZPG/01	50										.GB30-6013	System/36	15H
+Vehicle	Auto Dealer - Vehicle Control	5796-ZPG	8600										.GB30-6013	System/36	15H
Vehicle	Vehicle Maint - Parts Inventory	5796-RGG	10640									12	.GB30-1680	System/38	15X
Vehicle	Vehicle Scheduling Program - Extended	5734-XM5	6115										.GH19-2000	05/VS	11C
Vehicle	Vehicle Scheduling Program - Extended	5736-XM3	3190			145							.GH19-2000	DOS,DOS/VS	11C

Keyword	Program Title	Number	OTC	ILC	HLC	DSO	DSI	DSM	HLP	HML	Mo	MoreInfo	Environment	TPLS
Vendor	Direct Store Vendor Delivery Control	5796-BBE			655							24.G320-6423	DOS/VS CICS DL/I	1SH
+Vendor	Vendor Accounts Payable	5796-TCH	1500									.G320-9506	System/36	1SI
-Vendor	AnalysisAccounts Payable Online	5798-RFT	2055	187								12.GB30-1670	System/34	1SX
Vendor	performaRetail Inventory Planning & Mdse	5796-ZGT	66000									.GB30-2319	System/36	1SX
Verification	Signature Verification	5798-DRK	16500		750							.3209-244	System/38	1SH
Verify	Circuit Board Design - Design Verify	5796-PRL	23400	2085	695	16380	1455	485				G320-9175	5796-PRP	1TSE
Vers	Consolidated Functions Ordinary Vers 2	5736-N13	10370		500							.GH20-5006	OS/DOS	1IC
VERSAPLAN	VERSAPLAN	5798-RLG	165									.GB30-1925	Sys/23 Datanaster	1IX
Versaplot	CADAM Express Versaplot Color Random	5664-286/01	6250										4532	1SE
+Versions	3270-PC HLLAPI Upgrade from Versions 1.2	59X9-959/01	95										3270-PC, 3270-AT	0SE
Vi	Interactive Executive for System/370	5667-126	10000							495	792	GC33-6207	VM+Series/1	T2SK
-Video	Video Reverse Extract Offline Data Entry	5798-CJG	1690		154							12.GB21-1843	DOS/VS VIDEO/370	1SH
-Video	Video Reverse Extract Offline Data Entry	5798-CJP	1690		154							12.GB21-1843	OS/VS VIDEO/370	1SH
Video/VS	Video/VS	5796-PYT	18700									.G520-9212	VSE+CICS	1SH
Video/VS	Video/VS	5796-PYX	24200									.G520-9212	MVS+CICS	1SH
VIDEO/370	Visual Data Entry Online System/370	5734-RC5	8100		308							GC28-8313	OS/MFT/MVT/VS	1SC
VIDEO/370	Visual Data Entry Online System/370	5736-RC3	5600		212	4200		159	75	120		GC28-8313	DOS, DOS/VS	1SC
VIDEO/370	VIDEO/370 CICS Feature OS	5734-RC5/01	2400		92							GC28-8313	4516	1SC
VIDEO/370	VIDEO/370 CICS Feature DOS	5736-RC3/01	1800		68	1350		51	19	31		GC28-8313	4510, 4514, 6504, 6500	1SC
-VIDEO/370	VIDEO/370 Reverse Extract II	5798-DHD	946	295	86							12.GB21-2893	DOS/VSE	1SX
-VIDEO/370	VIDEO/370 VSE/VSAM Support	5798-DFK	1120									.GB21-2800	5736-RC3/02	1SH
-VIDEO/370	VIDEO/370, VTAM Interface to	5798-CNK	2055	187								12.GB21-2025	OS/VS	1SH
Videotex	Colorview	6410-982	115									G320-0387	All	0SH
Videotex	EDX Videotex System SVS/1	5799-TFN	13750									G520-3992	Series/1	1SX
Videotex	Videotex/PC Ext Sup Updt B1.0 to B1.1	6265-471	30									G520-3917	PC, XT, AT+ACA+modem	0SH
Videotex	Videotex/PC Updt B1.0 to B1.1	6265-472	55									G520-3917	Non-subscriber	0SH
Videotex	Videotex/PC Version B1.1 (Feature 9229)	6410-985	275									G520-3917	PC, XT, AT+ACA+modem	0SH
Videotex-Graphi	Videotex-Graphic Artist facility	6317-012	2500									G320-9394	Videotex (on PC)	0SH
Videotex/PC	Videotex/PC (Feature 9230)	6316-967	239									G520-3917	PCjr	0SH
Videotex/PC	Videotex/PC Ext Sup Updt B1.0 to B1.1	6265-471	30									G520-3917	PC, XT, AT+ACA+modem	0SH
Videotex/PC	Videotex/PC Updt B1.0 to B1.1	6265-472	55									G520-3917	Non-subscriber	0SH
Videotex/PC	Videotex/PC Version B1.1 (Feature 9229)	6410-985	275									G520-3917	PC, XT, AT+ACA+modem	0SH
+Videotex/370	Videotex/370	5798-DTW	75000		4000							G320-9388	CICS/MVS	2SH
View	DOS File View	6276-593	20										PC, XT, jr, AT, 3270-PC	0SR
View	Host Data Base View	6466-998	395									.G520-1107	MVS/VM/PC, XT, AT	0SZ
-View	Host Document View Facility	5796-BCL	5170	635	207							.G320-6640	MVS, DISOSS, IMS, CICS	1SX
View	Image View Facility	5785-ECX	5940		270							.G320-0331	DISOSS+8815+MVS	1SH
View	Image View Facility/VM Feature	5785-ECX/01	660		30								6010, 6012	2SH
View	Image View Facility	5785-EDJ	5400									.G320-0802	DISOSS+Scanmaster	2SH
View	Image View Facility/VM Feature	5785-EDJ/01	600										6008, 6009	2SH
View	View Data Support	5785-EBW	4220		192								5705	0SC
-Viewer	Softcopy - a CADAM (R) Drawing Viewer	5796-PNP	7630		347							.G320-6388	MVS, VM+3277GA	1SE
Viewing	Cooperative Viewing Facility Version 2	5664-296	5280		330							G520-6005	VM	2SA
+Viewing	CADAM (R) DRAWING Viewing Program - Host	5796-TBP	1250									G320-0898	VM, MVS+5796-TBQ	1SH
+Viewing	CADAM (R) DRAWING Viewing on PC	5796-TBQ	750									G320-0898	5796-TBP+FGA+8087	0SY
VisiCalc	ATI (R) Training for VisiCalc (R)	6071-282	75									GB30-2037	PC	0SY
VisiFile	VisiFile tm	6086-020	300									GB30-2037	PC	0SY
VisiSchedule	VisiSchedule tm	6086-021	300									GB30-2037	PC	0SY
VisiSchedule	VisiSchedule tm	6871-323	300									GC30-2037	PC, XT, 3270-PC	0SY
VisiSpell	VisiSpell tm (Feature 9077)	6871-319	50										PC	0SY

Keywords - Alphabetical Sequence

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Codes Explained in Appendix B

Keyword	Program Title	Number	OTC	ILC	MLC	DSO	DSI	DSM	MLP	MHL	Mo	MoreInfo	Environment	TPLS
VisiTrend/Plot	VisiTrend/Plot tm	6085-988	300									.GB30-2037	PC	05Y
Visual	Professional Visual Aid Composer	5798-DTB	1500									.G320-0813	GDDM+PGF	25S
Visual	Visual Data Entry Online System/370	5734-RC5	8100		308							GC28-8313	05/MFT/VTS	15C
Visual	Visual Data Entry Online System/370	5736-RC3	5600		212	4200		159	75	120		GC28-8313	D0S, D0S/V5	15C
-VLTB	Virtual Tape Librarian	5796-PNZ	1104		46							.G320-6421	VM/CMS	15H
VM	See yellow page 4-117.	0000-018												05C
VM Bond	PC Bond Release 2	5664-298	2000		135							GH24-5089	VM+VM Bond	25E
VM-VSE	Information / VM-VSE	5668-919			150							.GC34-2070	5665-952	05C
VM-BSE	Basic System Extensions VM/BSE	5748-XX8			181			135	44	70		GC20-1828	VM	25X
VM/Entry	VM/SP Entry Rel 2	5664-301	varies		2000	36000							4300	V25K
VM/GCS	Virtual Machine/System Product Rel 4	5664-167			443				332	69	110	GC20-1838	S/370, 4300, 303x, 308x	25K
VM/HPO	VM High Performance Option Rel 4.0, 4.2	5664-173		5325	1775				39931331	136	218	GC19-6221	VM/SP	25K
VM/IX	Series 1 Terminal Interface (to VM/IX)	5799-BXL	3400									GH20-6410	VM/IX+FXB ASCII term	35E
VM/IX	Virtual Machine Interactive Executive	5799-BXN	47000									GH20-6410	VM+STIPS (5799-BXN)	35E
VM/PC	TSD Host Server for PC XT/370 (VM/PC)	5798-DTL	2420									G520-3917	MVS/VTAM	15H
VM/PC	Virtual Machine / Personal Computer 1.1	6024-175	1150									G520-1095	XT/370, AT/370	05H
+VM/PC	Virtual Machine/Personal Computer Rel 2	4467-040	1150									SC24-5254	5664-319+AT/370	05M
VM/PC	VM/PC Bond Technical Coordinator SuptKpg	6314-143	275									GH24-5089	PC Bond+PC, XT, XT/370	05H
+VM/PC	VM/PC Host Server	5664-319	2000		135								VM+VM/PC on AT/370	15X
+VM/PC	VM/PC Upgrade from 1.1 to 2	6467-042	150									SC24-5254	Release 1.1	05M
+VM/Remote	VM/Remote System Programming	5750-EXT	varies										VM	VO5E
+VM/RSP	VM/Remote System Programming	5750-EXT	varies										VM	VO5E
VM/SP	See yellow page 4-117.	0000-018												05C
VM/SP	Virtual Machine/System Product Rel 4	5664-167			443				332	69	110	GC20-1838	S/370, 4300, 303x, 308x	25K
VM/SP	VM/SP Entry Engineering/Scientific Enhanc	5664-301/01	varies		569	9000							4300	V25M
VM/SP	VM/SP Entry Engineering/Scientific Enhanc	5750-E51/01	varies		569	9000								V25M
VM/SP	VM/SP Entry Rel 2	5664-301	varies		2000	36000								V25K
VM/SP	VM/SP System Base Rel 2	5750-E51	varies									G520-0118	VM	VO5M
VM/SP	VM/SP System Offering 4.0	5750-AAK	varies									GC20-1890	VM/SP	VO5E
VM/VCNA	Remote Spooling Communication Subsystem	5796-PXF	3850									G520-0323	VSE+VM+6670 line dvr	15X
VM/VCNA	VTAM Communications Network Applications	5735-RC5		1100	402		825	302	135	215		GC27-0501	VM/SP+D0S/VSE, V51	25K
VM/XA	VM/XA Migration Aid Remote 3270 Option	5664-183		2400	800		1800	600	42	67		GC23-0126	VM/XA+VM Pass-thru	15X
+VM/XA	VM/XA Realtime Monitor/Systems Facility	5798-DMD	7500									SH26-7000	VM/XA	15E
VM/XA	VM/XA Systems Facility Rel 2	5664-169		11220	3740		84152805	623	997			GC19-6213	4381, 308x, 3090	25K
VM/370-III New	FORTRAN Utilities for VM/370-III(New lic	5798-DFH	2400									GB21-2796	VM	15X
VMBACKUP	VMBACKUP Management System	5664-291	12600		632							.G320-0659	VM	.25L
VMMAP	Virtual Machine Monitor Analysis	5664-191	4000		270							C342-164	VM	.15E
VMPPF	VM Performance Planning Facility	5664-179	24000		2000							.GC34-2126	VM+APL+FORTRAN+GDDM	.11E
VMPS	Customer Information Control System	5746-XX3			686			617	149	238		GC33-0155	D0S/VSE	25K
-VMPS	COBOL Conversion Aid from NCR (R)Century	5798-APG	2315									GB21-0839	D0S/D0S	01H
-VMPS	COBOL Conversion from Burroughs (R) 2500	5798-APH	2435									.GB21-0836	D0S/D0S	01H
VMPS	Development Management System / CICS	5746-XC4	4730		330	3545		164	54	88		.GH20-2195	CICS/VS/D0S	15K
VMPS	DMS/CICS Application Generation Feature	5746-XC4/01	7040		330	5280		246	51	82		.GH20-2195	6082, 4538, 6541, 6501	15K
-VMPS	FORTRAN Conversion Aid from non-S/370	5796-PFG	5500		250							.G320-8154	05/VS, VM/CMS	11H
VMPS	Screen Definition Facility	5746-XTT	5345		243	3980		165	44	70		GH19-6087	VSE or CICS/D0S/VS	.15K
VMPS	Virtual Machine Productivity System	7798-VMP	nc										Information Network	N05C
VMS tm	SmartTerm tm 100 VT-52, VT-100, VT101, VT102	6294-110	165									GC22-9269	C50S+5.25" diskette	05W
VMTAPE	VMTAPE Management System	5664-292	10920		575							.G320-0659	VM	.25L
VM3812	VM3812 Pageprinter VM Support	5798-DTE	1900									.G320-0799	VM	15H
VNCA	Network Management Productivity Facility	5798-DPC	800									.G320-9165	MVS+NCCF	15H

Keyword	Program Title	Number	OTC	ILC	MLC	DSO	DSI	DSM	MLP	MML	Mo	MoreInfo	Environment	TPLS
VNCA	VTAM Node Control Application	5785-ECE	5280		240							.0821-3052	MVS	15X
VNCE	VTAM Node Control Applicatn Source Code	5785-ECE/01	nc									.0821-3052	6000,6001	N15X
+Vo-tech	General Ledger	5796-TCB	3000									.0320-9506	System/36	15I
+Vo-tech	Graduate Placement	5796-TCC	2250									.0320-9506	System/36	15I
+Vo-tech	Guaranteed Student Loan/Pell Tracking	5796-TCC	1500									.0320-9506	System/36	15I
+Vo-tech	Projected/Actual Payment Tracking	5796-TBY	1500									.0320-9506	System/36	15I
+Vo-tech	Registration, Attendance & Grading	5796-TCJ	6750									.0320-9506	System/36	15I
+Vo-tech	Student Accounts Payable	5796-TCF	1500									.0320-9506	System/36	15I
+Vo-tech	Student Financial Tracking	5796-TCA	6750									.0320-9506	System/36	15I
+Vo-tech	Student Recruitment	5796-TCD	6000									.0320-9506	System/36	15I
+Vo-tech	Vendor Accounts Payable	5796-TCH	1500									.0320-9506	System/36	15I
Vocabulary	Vocabulary Building Skills (Priv Tutor)	6024-326	55									.0520-1107	PC,PCjr,XT,AT,PPC	05Z
+Vocabulary	Vocabulary Series: Grades 3-4	6024-350	110									.0520-1107	PC,XT,AT,PCjr+color	05Z
+Vocabulary	Vocabulary Series: Grades 5-6	6024-351	110									.0520-1107	PC,XT,AT,PCjr+color	05Z
+Vocabulary	Vocabulary Series: Grades 7-8	6024-352	495									.0520-1107	PC,XT,AT,PCjr+color	05Z
+Vocabulary	Vocabulary Series: Grades 3-4	6024-376	495									.0520-1107	PC,XT,AT,PCjr+color	05Z
+Vocabulary	Vocabulary Series: Grades 5-6	6024-377	495									.0520-1107	PC,XT,AT,PCjr+color	05Z
+Vocational	General Ledger	5796-TCB	3000									.0320-9506	System/36	15I
+Vocational	Graduate Placement	5796-TCC	2250									.0320-9506	System/36	15I
+Vocational	Guaranteed Student Loan/Pell Tracking	5796-TCC	1500									.0320-9506	System/36	15I
+Vocational	Projected/Actual Payment Tracking	5796-TBY	1500									.0320-9506	System/36	15I
+Vocational	Registration, Attendance & Grading	5796-TCJ	6750									.0320-9506	System/36	15I
+Vocational	Student Accounts Payable	5796-TCF	1500									.0320-9506	System/36	15I
+Vocational	Student Financial Tracking	5796-TCA	6750									.0320-9506	System/36	15I
+Vocational	Student Recruitment	5796-TCD	6000									.0320-9506	System/36	15I
+Vocational	Vendor Accounts Payable	5796-TCH	1500									.0320-9506	System/36	15I
Voice	Voice / Text Messaging System	5796-PZB	10560		480							.0320-9231	VH	15H
Voice	Voice Communication Operating Subsystem	6280-708	65										PC,XT,AT	05Z
Voice	Voice Communications API Reference	6280-743	149										PC,XT,AT+VoiceComDpt	05Z
Voice	High Level Image Processing System	5785-ARB	13550		615							.0520-9211	VH+PL/I+HRUS+7350	15H
Voice-Activated	Voice-Activated Keyboard Utility	6280-742	99										PC,XT,AT+VoiceComDpt	05Z
Voice/Phone	Voice/Phone Assistant	6280-741	149										PC,XT,AT+VoiceComDpt	05Z
Volcanos	Volcanos (Earth Science Series)	6024-323	55									.0520-1107	PC,PCjr,XT,AT,PPC	05Z
Voter	Voter Registration / Jury Selection Syst	5796-PXM	12100									.0320-0339	System/34,36+COBOL	15H
VPSS	Vector Processing Subsystem	5744-CK2	nc									.0624-5182	OS/VS+3838	N05S
VPSS/XA	Vector Processing Subsystem / XA	5665-301	50000			37500			58	93		.0628-1204	MVS/XA+3838	15K
-Vs	Lease vs Purchase Analysis	5798-AJK	407		37							12.0821-0541	DOS/OS	11H
VS TSIO	APL VS Time Shared Input/Output Interfac	5798-DQE	3300									.0320-0365	MVS,XA+APL	15H
VSAM	IMS/DBT VSAM Zapper	5668-856/04	709										.4741	25E
VSAM	SSX/VSE VSAM (Incl Space Mgt+Backup/Res)	5799-BNF/02	1480		91	1330		82					4856,4857,4858,4859	25K
VSAM	VSAM and Access Method Services Course	5798-DAN	2055									.0821-2518	IIS, IIPS	1EH
-VSAM	VSAM Control Area Freespace Map Utility	5796-AYX	1185									.0320-6346	OS/VS	15H
VSAM	VSAM File Definition Aid	5798-DPG	2200									.0320-9170	MVS, VSE	15H
VSAM	VSE VSAM Fast Backup Restore Feature	5746-AM2/02			33			30	7	11		.0624-5190	6091,6506	15K
VSAM	VSE VSAM Space Management for SAM	5746-AM2/01			44			40	9	14		.0624-5143	6074,6507	15K
VSAM	VSE/SP VSAM	5666-316/03	1567		79	1410							71	15
VSAM	VSE/SP VSAM Backup Restore Feature	5666-316/05	661		31	397							28	15
VSAM	VSE/SP VSAM Backup/Restore Feature	5799-BNB/06	384		28	346							25	
VSAM	VSE/SP VSAM Backup/Restore Feature	5799-BNC/06	461		33	397							4930,4963	15K
VSAM	VSE/SP VSAM Backup/Restore Feature	5799-BNR/04	1360		73	1225		66					4941,4987	15K
VSAM	VSE/SP VSAM Feature	5799-BNR/04	1360		73	1225		66					4517,4928,4958,4959	15K

Keyword	Program Title	Number	OTC	ILC	MLC	DSO	DSI	DSM	HLP	MML	Mo	MoreInfo	Environment	TPLS
VSAM	VSE/SP VSAM Feature	5799-BNC/04	1565		23	1505		71					4574,4939,4882	1SK
VSAM	VSE/SP VSAM Space Management Feature	5666-316/04	713		42	641		38						1S
VSAM	VSE/SP VSAM Space Management Feature	5799-BNB/05	621		38	560		34					4929,4961	1SK
VSAM	VSE/SP VSAM Space Management Feature	5799-BNC/05	713		44	641							4940,4985	1SK
VSAM AMS	VSAM and Access Method Services Course	5798-DAN	2055									GB21-2518	IIS,IIPS	1EH
VSAPL	A Programming Language - APL	5748-AP1			386			289	41	66		GH20-9064	Replaced by 5668-899	1SK
VSAPL successr	APL2 Release 2	5668-899	14000	4170	695	12600	3126	521	37	59		GH20-9214	VM, MVS, XA	1SK
VSCR	TSO/Extensions	5665-285		1500	500		1125	375	87	139		GC28-1061	MVS,XA+DFP	2SK
VSE	See yellow page 4-120.	0000-017		nc										NOSC
VSE/ACLRL	Access Control Logging and Reporting	5746-XE7	2360		63	2125		57	24	38		GH12-5130	DDOS/VSE,SSX/VSE	1SK
VSE/Advanced	VSE/Advanced Functions Version 2.1	5666-301	11430		438	10287		394	108	173		GC33-6189	VSE	1SK
VSE/Advanced	VSE/Advanced Functions	5746-XE8			299			270	61	98		GC33-6108	DDOS/VSE	1SK
VSE/AF	VSE/Advanced Functions Version 2.1	5666-301	11430		438	10287		394	108	173		GC33-6189	VSE	1SK
VSE/AF	VSE/Advanced Functions	5746-XE8			299			270	61	98		GC33-6108	DDOS/VSE	1SK
VSE/Distributed	VSE/Distributed Systems Node Exec 1.1.0	5666-284	3800		253	3420		228	41	66		SC33-6210	VSE+VTAM	1SK
VSE/DSNX	VSE/Distributed Systems Node Exec 1.1.0	5666-284	3800		253	3420		228	41	66		SC33-6210	VSE+VTAM	1SK
VSE/Network	VSE/Network Management Productivity Faci	5798-DRR	1200									.G320-9239	VTAM	2SH
VSE/POMER	POMER/VSE Version 2	5666-273		498	166		447	149	33	53		GC33-6168	VSE/AF Version 2	1SK
VSE/POMER	System/38 to VSE/POMER RJE BSC	5798-RKB	4155	544	189						12	GB30-1873	System/38	1SX
VSE/POMER	VSE/POMER Remote Job Entry Version 2	5746-XE3/01	3100		119	2325		107	25	37		GH12-5131	4566,4562,6502,6534	1SK
VSE/POMER	VSE/POMER Shared Spooling - Version 2	5666-273/01			41			37	9	14		GH12-5131	6016,6017,6500	1SK
VSE/POMER	VSE/POMER Shared Spooling Version 1	5746-XE3/02	1200		46	1080		42	9	14		GH12-5131	4565,4563,6503,6535	1SK
VSE/POMER	VSE/POMER Version 1	5746-XE3	1800		68	1350		61	17	27		GH12-5131	DDOS/VSE	1SK
VSE/PT	VSE Performance Tool	5796-PLQ	6300		285							.G320-6155	DDOS/VS,DDOS/VSE	1SE
VSE/VM	VSE/SP DITTO for VSE/VM Feature	5799-BNB/09	1175		71	1055		64					4932,4969	1SK
-VSE/VSAM	VIDEO/370 VSE/VSAM Support	5798-DFK	1120									GB21-2800	5736-RC3/02	1SH
VSE/VSAM	VSE/VSAM	5746-AM2			82			74	24	38		GC24-6143	DDOS/VSE,VM/SP	1SK
VSPX	Vehicle Scheduling Program - Extended	5734-XM5	6115		278							GH19-2000	OS/VS	1IC
VSPX	Vehicle Scheduling Program - Extended	5734-XM3	3190		145							GH19-2000	DDOS,DDOS/VS	1IC
-VSTSI0	Virtual System Time Shared I/O for VSAPL	5798-DEN		675	241						12	GB21-2741	TSO,VSAPL	1SX
VS1PT	OS/VS1 Performance Tool	5796-PGL	6600		398							.G320-5680	OS/VS1	1SX
VTAM	ACF / VTAM Version 3.1.1	5664-280		3535	1175		2640	880	247	395		GC30-3246	VM	2SK
VTAM	ACF/Network Control Program Version 3	5667-124		2550	425		2310	385	148	257		GC27-0657	3705+25MVS,XA	2SK
VTAM	ACF/VTAM	5746-RC3			197			177	58	93		GC27-0462	DDOS/VSE/AF	2SK
VTAM	ACF/VTAM - Version 2	5662-280		1970	657		1478	493	94	150		GC27-0608	OS/VS1	2SK
VTAM	ACF/VTAM - Version 2	5665-280		3745	1245		2809	934	225	360		GC27-0657	MVS,MVS/XA	2SK
VTAM	ACF/VTAM Ver 2 - Encrypt/Decrypt Feature	5662-280/01			240			180	7	11		GC27-0608	6000,6500	1SK
VTAM	ACF/VTAM Ver 2 - Encrypt/Decrypt Feature	5665-280/01			259			194	8	13		GC27-0608	6000,6500	1SK
VTAM	ACF/VTAM Version 3.1.1	5665-289		6255	2085		46951565	302	483			GC23-0108	XA	2SK
+VTAM	ACF/VTAM Version 3	5666-313		963	321		864	288	82	131		GC23-0108	VSE	2SK
VTAM	ACT/VTAM Version 3.1.1	5665-313		5130	1710		38401280	275	440			GC23-0108	MVS	2SK
VTAM	CICS to 3270-PC File Transfer Program	5798-DQH	660									.G320-0369	CICS+3270-PC CP	1SH
-VTAM	File Cabinet Option / VTAM	5798-DCG	15960		732							.GB21-2604	MVS/SP,MVS/XA	1SH
VTAM	MVS Productivity System	7798-MVS	nc										Information Network	NOSC
VTAM	MVS/SP - JES2 J.1	5740-XTS			2150			1612	117	187		GC28-1395	5752-V32	2SK
VTAM	Network Communications Control Facil V2	5668-947		2250	375		2010	335	55	88		GC27-0657	MVS+VTAM,TCAM	1SK
VTAM	Network Monitor for VTAM Applications	5796-PPB	1980		150							.G320-6628	OS/VS,ACF/VTAM	1SH
VTAM	TSO Data-set Print VTAM, XA Extensions	5798-CPF/01	957		76						12	GB21-2069	4607,4598	1SH
-VTAM	VIDEO/370, VTAM Interface to	5798-CHK	2055		187						12	GB21-2025	OS/VS	1SK
VTAM	VTAM Communications Network Applications	5735-RC5		1100	402		825	302	135	215		GC27-0501	VM/SP+DDOS/VSE,VS1	2SK

Keyword	Program Title	Number	OTC	ILC	MLC	DSO	DSI	DSM	MLP	MML	Mo	MoreInfo	Environment	TPLS
-VTAM	VTAM Configuration and Generation Aid	5798-CTL	1375		275						06	.GB21-2233	DOS/VS	01H
-VTAM	VTAM Level Selector	5798-DBZ	1890		78							.GB21-2580	OS/VS-MVS	15X
VTAM	VTAM Node Control Application	5785-ECE	5280		240							.GB21-3052	MVS	15X
VTAM	VTAM Node Control Applicatn Source Code	5785-ECE/01	nc									.GB21-3052	6000,6001	H15A
-VTAM	VTAM Performance Analysis & Reporting	5798-CTH	1625		74							.GB21-2246	OS/VS, 5798-CPR	11X
VTAM	VTAM Performance & Analysis Reporting II	5798-DFE	5570	504	198							.GB21-2786	Succeeded by NPM	15E
VTAM	VTAM SCP for ACF/VTAME	5747-C02	nc									GC27-0440	DOS/VSE	N05J
VTAM	VTAM SCP ACF/VTAME	5747-CF1	nc									GC27-0459	DOS/VSE	N05J
VTAM V2	ACF/VTAM - Version 2	5666-280		849	284		765	256	59	94		GC27-0608	DOS/VSE,VSE/AF	25K
VTAM/NCP	Network Services	7798-NET	nc										Information Network	N05C
-VTAMPARS	VTAM Performance Analysis & Reporting	5798-CTH	1625		74							.GB21-2246	OS/VS, 5798-CPR	11X
VTAMPARS 2	VTAM Performance & Analysis Reporting II	5798-DFE	5570	504	198							.GB21-2786	Succeeded by NPM	15E
VTERM	VTERM (DEC.VT100 tm, DEC.VT52 tm)	6871-491	125									.GB30-2037	PC,XT	05Y
VTMS	Voice / Text Messaging System	5796-PZB	10560		480							.G320-9231	VM	15H
VIXGRAF	Vidiotex-Graphic Artist facility	6317-012	2500									.G320-9394	Vidiotex (on PC)	05H
+W/EPROM	THE FIX tm w/EPROM for CGA/EGA	5793-AGX	2100									.GB30-2037	Industrial PC	05Y
+W/EPROM	THE FIX tm Runtime w/EPROM for CGA/EGA	5793-AGW	2675									.GB20-2037	Industrial PC	05Y
Wall Chart	Writing to Read	6360-700	725									.G520-1107	PCjr+Speech attachmt	05Z
Wall constructi	CADAM (R) Design/Build/Manage	5668-853	20000	1765	535	13400	1185	395				5796-ATA,ATB,PTH		15E
Warehouse	School - Warehouse Inventory System	5796-ZGD	5280									.GB30-2268	5796-ZFY	15H
WATCOM	Waterloo and WATCOM Languages	5793-AAP	4950									.GB30-2339	DOS	05F
WATCOM	Waterloo and WATCOM Languages for VM	5793-AAP/01	6600										9504	05F
Water	Chemicals of Life II: Water, Carbo Lipid	6024-344	65									.G520-1107	PC,PCjr,XT,AT,PPC	05Z
Water	Chemicals of Life II: Water, Carbo Lipid	6024-394	295									.G520-1107	PC,PCjr,XT,AT,PPC	05Z
Water	Ground Water - Earth Science Series	6024-122	55									.G520-1107	PC,XT,PCjr,PPC+DOS2+	05Z
Water	Surface Water - Earth Science Series	6024-123	55									.G520-1107	PC,XT,PCjr,PPC+DOS2+	05Z
-Waterloo	CPS COBOL - Virtual	5798-ZZB	693		63					12			Series/1	15H
-Waterloo	Virtual Basic Supervisor - Waterloo	5798-RBY	682		31					36	.GB30-1466		Series/1	15H
Waterloo	Waterloo and WATCOM Languages	5793-AAP	4950									.GB30-2339	DOS	05F
Waterloo	Waterloo and WATCOM Languages for VM	5793-AAP/01	6600										9504	05E
Waterloo	Waterloo HDSTCM	5793-AAN/03	330										2003	05F
Waterloo	Waterloo PC Network Standalone Server	5793-AAN	1650									.GB30-2411	DOS+RPS on Series/1	05F
Waterloo	Waterloo PC Network Channel Attached	5793-AAN/01	nc									.GB30-2411	2001	N05F
Waterloo	Waterloo PC Network VM Server	5793-AAN/02	1650									.GB30-2411	2002	05F
+Wave	Investigating Wave Interference	6024-666	75									.G520-1107	PC,XT,AT,PCjr+color	05Z
-WCP	Wideband Communication Program	5796-PDJ	7260	660							12	.G320-5540	OS/VS1,05/VS2	15H
WESTLAM	WESTLAM (R) Communications Session Mgr	6428-162	350									.G520-3917	PC	05X
What if--model	OFFICE/38 - WORKSHEET/38 tm	5710-RRL	2790									.GB30-2383	System/38	15I
What-if	Project Scheduler 5000	6871-485	285									.GB30-2037	PC,XT	05Y
Wholesale	Wholesale Drug	5798-RRK	550									.GB30-2336	Reportpack	15X
Wide-Screen	File Cabinet Option Wide-Screen Feature	5798-CPY/01			250						24	.GB21-2103	6013,6014	15H
-Wideband	Wideband Communication Program	5796-PDJ	7260	660							12	.G320-5540	OS/VS1,05/VS2	15H
Wire transfer	Corporate Cash Manager	5601-006	4400									.GH20-0391	PC,XT	05H
+Wiring	Allen-Bradley PLC-2 Wiring Diag Generatr	5793-ACX/02	500										Industrial PC	05Y
+Wiring	Allen-Bradley PLC-3 Wiring Diag Generatr	5793-AGC/01	500										Industrial PC	05Y
+Wiring	Modicon Wiring Diagram Generator	5793-AHF/01	500										Industrial PC	05Y
+Wiring	Modicon 484 Wiring Diagram Generator	5793-AHF/02	500										Industrial PC	05Y
WORD	Microsoft (R) WORD	6871-348	395									.GB30-2037	PC,XT,PCjr	05Y
Word	Solving Math Word Problems (Priv Tutor)	6024-308	55									.G520-1107	PC,PCjr,XT,AT,PPC	05Z
Word	SAT Word Attack! Data Disk	6187-238	20										PC	05Y

Keywords - Alphabetic Sequence

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Codes Explained in Appendix B



Keyword	Program Title	Number	OTC	ILC	MLC	DSO	DSI	DSM	MLP	MML	Mo	MoreInfo	Environment	TPLS
Word	T3 tm Scientific Word Processing System	6187-281	595									.GB30-2037	PC,XT,XT/370,AT,RT	05Y
Word	Word / Text Processing	5715-HP1	500									GC34-0417	Sys/23 Datamaster	11E
Word	Word III tm	6086-002	550									.GB30-2037	PC,XT,3270-PC+DOS2	05Z
Word	Word Knowledge Skills (Private Tutor)	6024-327	55									G520-1107	PC,PCjr,XT,AT,PPC	05Z
Word	Word Perfect tm (Spanish Version)	6205-276	495									.GB30-2037	PC,XT,AT,3270-PC	05Y
Word	Word Processing I	5715-HP2	850									GC34-0497	Sys/23 Datamaster	11X
Word	Word Processor File Conversion	5798-DFY	915									.GB21-2821	05/VS, DOS/VSE	05H
Word	Word Proof	6024-071	65									G520-3917	PC,PCjr,XT	05Z
Word	Word Proof II	6276-564	40										PC,XT,jr,AT,PPC	05R
Word	Word Seeking	6276-534	20										PC,XT,jr,AT	05R
WORD	WORD ATTACK! tm	6871-442	49									.GB30-2037	PC,XT,PCjr	15Y
Word processing	Framework II tm	6187-185	695									.GB30-2037	PC,XT,3270-PC,AT,RT	05Y
Word processing	Homework tm (Feature 4090)	6024-090	75									G520-3917	PCjr	05Z
Word processing	Microsoft (R) WORD	6871-348	395									.GB30-2037	PC,XT,PCjr	05Y
Word processing	Personal Decision Series - Words Edition	6410-940	165										Data Edition	05G
Word processing	PCNriter	6024-179	215									G520-1107	PC,XT,PPC	05Z
Word processing	Symphony tm (Feature 9448)	6187-187	695									.GB30-2037	PC,XT,PPC	05Y
Word Processing	Type Faces tm	6871-333	95									.GB30-2037	PC,3270-PC	05Y
Word processing	Word III tm	6086-002	550									.GB30-2037	PC,XT,3270-PC+DOS2	05Y
Word processing	Writing Assistant	6024-144	165									G520-3917	PC,XT,PCjr,PPC	05Z
Word processor	MultiMate tm	6871-408	495									.GB30-2037	PC,XT,AT,3270-PC	05Y
Word Processor	WordStar Professional tm	6871-407	695									.GB30-2037	PC,XT,3270-PC,AT	05Y
WORD/MATH	IX Integrated WORD/MATH	5796-TAT	12000									G520-0814	IX/370	15H
WORD/MATH	IX Integrated WORD/MATH	6316-989	659									.3209-223	PC/IX	05H
WORD/MATH	IX WORD/MATH	6317-588	800									G520-3223	XENIX tm	05H
Wordchart	DEM tm Wordchart	6404-006	149									.GB30-2037	PC,XT,AT,KB/mouse	05Y
WordMARK	WordMARK tm	6187-274	495									.GB30-2037	PC,XT,AT,RT	05Y
WordPerfect	WordPerfect tm	6871-456	495									.GB30-2037	PC,3270-PC,XT,AT	05Y
*WordProcessing	DisplayWrite 3 1.1	6489-766	450										PC/384K	05G
*Words	Bouncy Bee Learns Words	6024-139	70									G520-1107	PC,XT,AT,PPC,PCjr	05Z
*Words	Personal Decision Series - Words Edition	6410-940	165										Data Edition	05G
*Words	Personal Decision Series - Words Edition	6466-985	165									.GH30-9012	3.5" drive	05G
WordStar	WordStar (R)	6085-980	495									.GB30-2037	PC	05Y
WordStar	WordStar (R) Version 3	6871-326	495									.GB30-2037	PC,XT,3270-PC,AT	05Y
WordStar	WordStar Professional tm	6871-407	695									.GB30-2037	PC,XT,3270-PC,AT	05Y
WordStar	WordStar 2000 (R)	6187-311	495									.GB30-2037	PC,XT,AT,RT	05Y
WordStar	WordStar 2000 Plus (R)	6187-313	595									.GB30-2037	PC,XT,AT	05Y
WordWhiz	WordWhiz (R)	6871-279	39									.GB30-2037	PC,XT,PCjr	05Y
Work	DPPX Distb Plant Maint Work Order	5787-GAA/01	14850										6001	25
Work	Utility Work Management Starter System	5798-DTC	8250			375						G520-0797	MVS/CICS+IMS	15H
Work	Work Station Search Facility	5714-WS1	827									.GH30-0458	System/38	15D
Work	Work Station Search Facility	5726-XX1	503									.G580-0212	System/34	01B
Work	Work Station Search Facility	5727-XX1	935									.G580-0212	System/36,S/36 PC	15B
Work	Work Station Support Subroutine	5799-AYM						20				GC21-7808	System/34	15X
Work	3270 Attached Work Station	5608-S82	600									G544-2207	Displaywriter	05E
Workbench	VS COBOL Workbench	6205-286	4000									.GB30-2037	PC,XT,AT,3270-PC	05Y
Workmens	CompenLegal Diary System	5796-BTT	49500										CICS/OS/VS	25X
WORKSHEET/38	OFFICE/38 - WORKSHEET/38 tm	5710-RRL	2790									.GB30-2383	System/38	15I
Workspace	APL Workspace Structure Analyzer	5796-PNB	2055				187					12.G320-6170	V5APL	15H
Workstation	CADAM Express Workstation Extension	5644-286/02	97720	30350	1185	2362016850							2113,4527,4528	15E

Keyword	Program Title	Number	OTC	ILC	MLC	DSO	DSI	DSH	HLP	HML	Mo	MoreInfo	Environment	TPLS
Workstation	Distributed Workstation Support	5740-XYE				174		130	36	58		GC24-5193	OS/V51	15K
Workstation	DPPX Remote Job Entry Workstation	5760-XC1	1175		45	998		38	20	32		GC30-3053	DPPX to OS,VSE,VM	15K
Workstation	Intelligent Workstation Support 3101 Emu	5799-TGC	150									GC34-0545	PC/XT to S/1 to S/370	OSX
Workstation	Remote Job Entry Workstation	5746-RC9	3780		135							.GH20-2199	VSE to VM, OS, VS	15B
<del>Workstation</del>	<del>Remote Job Entry Workstation RJE</del>	<del>5799-HMX</del>	<del>nc</del>									.GH20-1574	D0E to VM	NOSC
+Workstation	Workstation Publishing Software tm	5669-086	1995									SV21-8084	RT AIX	OSZ
Workstation	Workstation Utilization Analysis	5798-RRX	495									.GB20-0361	System/36	15X
+Workstation	3270-PC CP 3.0, Workstation Upgrade Pkg.	59X9-968/01	200									GA23-0179	Versions 1 or 2	OSM
Workstatn	PC Support/36 Token-Ring Workstatn Feat	5727-WS1/01	1500		100	1320						0580-0454	6248	TI1M
+Workstatn	PC Support/36 Token-Ring Workstatn Feat	5727-WS6/01	600			450						0580-0570	6181	TO1M
World	World Geography Facts	6187-201	150										PC	OSY
World's	The World's Greatest Baseball Game tm	6276-620	25										PC, XT, jr, PPC	OSR
Writer	File Maintenance Program Writer - Online	5798-RPP	610									.GB30-2217	System/36	15X
Writer	Matrix Generator Report Writer for MPSX	5734-XMC	14100		641							.GH19-5012	OS/MFT/MVT	11B
Writer	R-B 4000 Extended Report Writer	6187-246	150									.GB30-2037	PC, XT, 3270-PC	OSY
Writer	RPS Letter Writer Version 2	5799-TEY	1200		114						12	GH30-0713	Series/1	15E
+Writing	Get Set for Writing to Read	6024-468	295										PCjr+Speech attachmt	OSZ
Writing	Get Set for Writing to Read - Book Set	6024-469	4									6024468		OSZ
Writing	Writing to Read	6360-700	725									0520-1107	PCjr+Speech attachmt	OSZ
Writing	Writing Assistant	6024-144	165									.0520-3917	PC, XT, PCjr, PPC	OSZ
Writing	Writing Private Tutor Courses for the PC	6024-078	14									0520-1107	PC, XT, AT, PCjr, PPC	OSZ
MSF/34	Work Station Search Facility	5726-XR1	503									.G580-0212	System/36	01B
MSF/36	Work Station Search Facility	5727-XR1	935									.G580-0212	System/36, S/36 PC	15B
MSF/38	Work Station Search Facility	5714-WS1	827									.GH30-0458	System/38	15D
MSL and Linker	Waterloo and NATCOM Languages	5793-AAP	4950									.GB30-2339	D05	05F
MSU	BASIC Subset	5726-BA2	390									GC21-9035	System/34	15A
MTTY	270x Emulation on 3705/20/25 Release 4	5735-XXB		1365	256		1025	192	40	64		GC27-0657	MVS, XA, VSE, VM	25K
X.25	EDX X.25 / HDLC Communications Support	5719-HD2	2750		162							.GC09-1026	EDX Version 4	15X
X.25	RPS X.25 / High-Level Data Link Control	5719-HD1	2500		158							GC09-1026	Series/1	15X
+X.25	System/88 Network	5732-002	7550									SC34-0677	System/88	25M
X.25	VM Interface Program for TCP/IP	5798-DRG	18700		850							.G320-9219	VM-EDX/RPS/DACU	15H
+X.25	X.25 Networking Facility Release 1	5732-008	5430									SC34-0677	System/88	15M
X.25	X.25 NCP Packet Switching Interface 4.3	5668-981		770	269			557	202	40	64	GC30-3189	3720/25+NCP 4.2	25K
+X.25	X.25 SNA Interconnection	5799-BZJ	37200										MVS	25M
+X.25	X.25 SNA Network Supervisory Function	5799-HYF	nc										XI (5799-BZJ)	N25M
X.25/HDLC	EDX X.25 / HDLC Communications Support	5719-HD2	2750		162							.GC09-1026	EDX Version 4	15X
X.25/HDLC	RPS X.25 / High-Level Data Link Control	5719-HD1	2500		158							GC09-1026	Series/1	15X
X.28	X.28 NCP Packet Switching Interface 4.3	5668-981		770	269			557	202	40	64	GC30-3189	3720/25+NCP 4.2	25K
+X.29	X.29 Networking Facility Release 1	5732-009	1770									SC34-0677	System/88	15M
XA	TSD Data-set Print VIAM, XA Extensions	5798-CPE/01	957		76						12	GB21-2869	4607, 4598	15H
XA	Vector Processing Subsystem / XA	5665-301	50000			37500				58	93	GC28-1204	MVS/XA-3838	15K
+XEDIT	Selt-Teach, The Online XEDIT Tutorial	5798-DMM	1500									.G320-9499	VM	25H
XEDIT	Virtual Machine/System Product Rel 4	5664-167		443				332	69	110		GC20-1838	S/370, 4300, 303x, 308x	25K
+XENIX	Upg XENIX or PCIX Devt Sys to 59X9939	59X9-934	299										SoftDev 1.0 or 1.1	OSZ
+XENIX	Upg XENIX or PCIX Text 1.0 to 59X9941	59X9-935	99										Text Form 1.0 or 1.1	OSZ
XENIX	XENIX tm (on ten eight-inch diskettes)	6331-444	995									GC22-9248	System 9000	05E
XENIX	XENIX tm (Preinstalled on 1-side hardisk	6331-443	995									GC22-9248	System 9000	05E
XENIX	XENIX tm (Preinstalled on 2-side hardisk	6419-595	995									GC22-9248	System 9000	05E
+XENIX	XENIX tm Extensions 1.0	59X9-943	475										XENIX 2.0	OSZ
+XENIX	XENIX tm Software Development System 2.0	59X9-939	599									SV21-8078	XENIX 2.0	OSZ

Keywords - Alphabetic Sequence

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Codes Explained in Appendix B

Keyword	Program Title	Number	OTC	ILC	MLC	DSO	DSI	DSM	MLP	MML	Mo	MoreInfo	Environment	TPLS
+XENIX	XENIX tm Text Formatting System 2.0	59X9-941	199									SV21-8080	XENIX 2.0 on AT	05Z
+XENIX	XENIX tm 2.0	59X9-932	599									SV21-8074	AT+20MB	05Z
+XENIX	XENIX 2.0, Upg from PCIX/XENIX 1.0, 1.1	59X9-933	299										XENIX/PCIX 1.0, 1.1	05Z
XENIX tm	BASIC on 5.25" Diskette	6419-529	195									GC22-9184	XENIX+System 9000	05W
XENIX tm	BASIC on 8" Diskette	6419-506	195									GC22-9184	XENIX+System 9000	05W
XENIX tm	C Compiler on 5.25" Diskette	6179-244	595										XENIX+System 9000	05W
XENIX tm	C Compiler on 8" Diskette	6179-243	595										XENIX+System 9000	05W
XENIX tm	FORTRAN (on eight-inch diskette)	6294-124	595									GC22-9194	System 9000+XENIX	05E
XENIX tm	FORTRAN (on 5.25-inch diskette)	6294-125	595									GC22-9194	System 9000+XENIX	05E
XENIX tm	Pascal (on eight-inch diskette)	6294-122	595									GC22-9190	System 9000+XENIX	05E
XENIX tm	Pascal (on 5.25-inch diskette)	6294-123	595									GC22-9190	System 9000+XENIX	05E
XENIX tm	RM/COBOL tm (on eight-inch diskette)	6294-120	1250									GC22-9267	System 9000+XENIX	05E
XENIX tm	RM/COBOL tm (on 5.25-inch diskette)	6294-121	1250									GC22-9267	System 9000+XENIX	05E
XENIX tm	Scientific Subroutine Library on 8" disk	6419-369	325									GC22-9262	S/9000+FORTRAN, Pasca	05W
XENIX tm	Scientific Subroutine Library 5.25" disk	6419-472	325									GC22-9262	S/9000+FORTRAN, Pasca	05W
XEXP	FORTRAN H - Extended Exponent Range	5796-PKR/01	1890										6043.4	25H
+Xface	Distribution Control Sys INFOREM Xface	5793-ADN	10000									.GB30-6003	5793-ADF+INFOREM II	15H
+Xface	Distribution Control Sys INFOREM Xface	5793-APP	10000									.GB30-6003	5793-AFG+INFOREM II	15H
+XI	X.25 SNA Interconnection	5799-BZJ	37200										MVS	25M
+Xref	PC/3600 Trans Documentor & Xref	5796-ATR			150						12	6320-6067	DOS/VS, OS/VS, CICS/VS	15H
XRW	R-B 4000 Extended Report Writer	6187-246	150									.GB30-2037	PC, XT, 3270-PC	05Y
XY/749	Personal Decision Series - Graphs Editn	6410-938	225										.Data Editon+color	05G
XY/749 Plotter	Business Graphics Utilities	5799-BNN	600									G580-0571	System/36	15X
XY/749 Plotter	Business Graphics Utilities	5799-BTA	1550									G580-0454	System/34	15X
+XY/750	Graphics Program Generator 3277GA/5080	5668-961		7000	1250							GH20-5620	VM, MVS+5799-AXX+FORT	15E
-XY/750	XY/750 Plotter Support for GDDM	5798-DMK	1540									.GB21-3054	T50, CMS	15X
Yale	EDX Yale ASCII Communication Sys II	5796-RRJ		407	137							24	.GB30-1901 Series/1	15X
Yale	Yale ASCII Communications - Host Loaded	5798-RRJ	4070									.GB30-2317	VM to EDX to 4994	15X
Yale	Yale ASCII Terminal Communications	5796-RBT	3450		157							24	.GB30-1509 Series/1	15H
Yale University	Yale ASCII Terminal Communications	5796-RBT	3450		157							24	.GB30-1509 Series/1	15H
Young	Trivia 103 (Challenges for Young People)	6276-610	20										PC, XT, jr, AT, 3270-PC	05R
Zapper	INS/DBT VSAM Zapper	5668-856/04	709										4741	25E
Zuran		6276-515	20										PC, XT, jr, PPC	05R
+1.13	CSOS Extensions 1.13 5.25" diskette	5669-075	155										System 9000	05X
+1.13	CSOS Extensions 1.13 8" diskette	5669-075/01	155										4509	05X
1-2-3	1-2-3 tm	6871-325	495									.GB20-2037	PC, XT, AT, RT	05Y
1-2-3	1-2-3 tm	6871-505	100										3270-PC	05Y
101	Music 101	6276-600	20										PC, XT, jr, AT, 3270-PC	05R
102	Trivia 102	6276-599	20										PC, XT, jr, AT, 3270-PC	05R
103	Trivia 103 (Challenges for Young People)	6276-610	20										PC, XT, jr, AT, 3270-PC	05R
1100	TRANSLATOR Univac (R) 1100 COBOL	5796-PYQ	46200									.G320-9204	MVS+ISPF	05H
-1255 Reader	MICR Program Generator	5798-RBE	759		69							12	.GB30-1476 System/34	15H
*14YN tm	Circuit Board Design - Circuit Pack 4.1	5796-PRP	48600	8355	2785			58351945				G320-9175	VM+5080/3250/3277GA	T15E
1400	1400 Compatibility Access Routine	5798-CDB	500									.GB21-1546	DOS/VS	11H
1400	1400 Emulator Programs	5747-CC3	nc									GC33-5384	DOS/VS	N05C
1401/1440/1460	1401/1440/1460 Integrated Emulator	5744-AH1	nc									GC33-2018	OS/VS	N05C
1401/1440/1460	1401/1440/1460 Emulator	5746-SU1	3400		154	2550		115	6	10		GC33-0011	DOS/VS, DDS/VSE	15X
1403-BrailleRP	Braille Text	5798-DNC	2640									.GB21-3093	VM, MVS	15H
1410/7010	1410/7010 Integrated Emulator	5744-AG1	nc									GC33-2019	OS/VS	N05C
1419	1419 Proof-of-Deposit MICR Capture	5798-DBC	3630		330							12	.GB21-2668 DOS/VSE	15H

Keyword	Program Title	Number	QTC	ILC	MLC	DSO	DSI	DSH	MLP	MML	Mo	MoreInfo	Environment	TPLS
1500	Spool Display and Search Facility	5798-DGN	1650									.0821-2865	MVS,MVS/XA	15H
+1774PLC	Allen-Bradley 1774PLC Ladder Logic Docum	5793-AHC	1250										Industrial PC	05Y
+2.1.1	V5 FORTRAN Library 2.1.1	5668-805		200			150					SX26-3751	VM,MVS,XA+DFP	15E
2.1.7	MVS/SP - JES3 Version 2.1.7	5665-291		14430	4810		10821360713352136					GC28-1118	DFP 5665-XA2	25K
2.1.7	MVS/SP JES2 Version 2.1.7	5740-XC6		12840	4280		93603210.6731077					GC28-1118	Hj th 5665-XA2	25K
2000	TRANSLATOR Honeywell 2000 COBOL	5796-PYP	46200									.0320-9204	MVS+ISPF	05H
2000	WordStar 2000 (R)	6187-311	495									.0830-2037	PC,XT,AT,RT	05Y
2000	WordStar 2000 Plus (R)	6187-313	595									.0830-2037	PC,XT,AT	05Y
2000-4900	TRANSLATOR Burroughs COBOL 2000-4900	5796-PYL	46200									.0320-9204	MVS+ISPF	05H
2175	CADAM (R) Interactive Design/Manufacturing	5668-860/01	12000	2140	256	8400	214	180					6050,6560,2174,6550,	15E
270x	270x Emulation on 3705/20/25 Release 4	5735-XXB		1365	256		1025	192	40	64		GC27-0657	MVS,XA,VSE,VM	25K
270x Emulation	ACF / System Support Programs Version 2	5735-XXA		508	92		381	69	24	38		GC27-0657	MVS,XA+NPC-3	25K
270x Emulation	270x Emulation on 3705/20/25 Release 4	5735-XXB		1365	256		1025	192	40	64		GC27-0657	MVS,XA,VSE,VM	25K
2700	Data Extract	5668-973		3840	640		2880	480	37	59		GC26-4070	MVS,MVS/XA+DFP	21K
2780/3780 code	DisplayComm Binary Synchronous Communica	6024-187	409									0520-3917	PC,XT,PPC	05Z
+2808	THE FIX Device Driver for DT 2808	5793-AG0/08	795									0830-2027	5793-AGH	05Y
+285	SSP Automatic PTF Distribution	5727-SS1/11	285									4973		15E
289	5520 Attach Kit V3 (Feat 2896) Incl 289	6403-724	875									0520-3917	All except PCjr	05C
+29	Diagnostics Diskettes Version 29 8"	5669-135	nc									CS05 1.13		NO5X
3-K	3-K Trivia	6276-516	20									PC,XT,jr,AT		05R
-3-of-9	3800 3-of-9 Bar Code Print	5798-DMH	3300									.0821-3048	OS,VS	15X
+3-4	Math Concepts Series: Grades 3-4	6024-357	175									0520-1107	PC,XT,PCjr,AT 128k	05Z
+3-4	Math Concepts Series: Grades 3-4	6024-369	789									0520-1107	PC,XT,PCjr,AT 128k	05Z
+3-4	Math Practice: Grades 3-4	6024-354	95									0520-1107	PC,XT,AT,PCjr+color	05Z
+3-4	Math Practice: Grades 3-4	6024-371	429									0520-1107	PC,XT,AT,PCjr+color	05Z
+3-4	Parts of Speech Series: Grades 3-4	6024-353	100									0520-1107	PC,XT,AT,PCjr+color	05Z
+3-4	Parts of Speech Series: Grades 3-4	6024-378	450									0520-1107	PC,XT,AT,PCjr+color	05Z
+3-4	Reading for Information: Grades 3-4	6024-358	125									0520-1107	PC,XT,AT,PCjr+color	05Z
+3-4	Reading for Information: Grades 3-4	6024-386	565									0520-1107	PC,XT,AT,PCjr+color	05Z
+3-4	Reading for Meaning Series: Grades 3-4	6024-356	150									0520-1107	PC,XT,AT,PCjr+color	05Z
+3-4	Reading for Meaning Series: Grades 3-4	6024-374	675									0520-1107	PC,XT,AT,PCjr+color	05Z
+3-4	Spelling Series: Grades 3-4	6024-348	110									0520-1107	PC,XT,AT,PCjr+color	05Z
+3-4	Spelling Series: Grades 3-4	6024-381	495									0520-1107	PC,XT,AT,PCjr+color	05Z
+3-4	Vocabulary Series: Grades 3-4	6024-350	110									0520-1107	PC,XT,AT,PCjr+color	05Z
+3-4	Vocabulary Series: Grades 3-4	6024-376	495									0520-1107	PC,XT,AT,PCjr+color	05Z
3D	CADAM (R) 3D Interactive	5668-844	35000	2675	909	24500	1920	640				0320-6063	5668-840	15E
3D	CADAM (R) 3D Mesh Geometry Module	5796-AMR	27510	2910	457	15730	3870	261				0320-6063	OS,VS,VM/CMS	05H
3D	CADAM (R) 3D Piping	5796-BFN	41730	2730	910	26150	1830	610					5668-840	15E
3D	CADAM (R) 3D Surface Geometry Module	5796-AWT	12050	1285	215	6885	1250	123				0320-6063	OS,VS,VM/CMS	05H
3D	CATIA (R) Basic 3D Design - Standalone	5668-828		1035								0320-6650	Replaced by 5668-761	115E
+3D	CATIA (R) 3D Design 2.2 4 CSTU	5668-761		350									CATIA Base	115E
+3D	CATIA (R) 3D Design Unlimited CSTU	5668-761/01		2100	700		1470	490					4802,2240	115E
+3D	CATIA (R) 3D Design	5668-830		1725	575		1215	405					Replaced by 5668-761	15E
3D MeshGeometry	CADAM (R) Express - Base	5664-286	126000	8560	3315							0H20-6487	5750-VME	15E
3rd party log	Patient Care System - Patient Accounting	5668-913	165000	7500								0H20-6351	5796-BBF+BCE+BCF	15E
301	RCA (R) 301 Emulator	5799-ADR		818								GA24-3605	DOS DOS/VS	05C
+3090	3090 Vector Facility Simulator	5798-DWF	9500									OC23-0340	VM	15H
-3101	EDX 3101 Full Screen Subroutines	5798-RJW	269									.0830-1845	Series/1	15X
3101	Intelligent Workstation Support 3101 Emu	5799-TGC	150									GC34-0545	PC/XT to S/1 to S/370	05X
3101	Yale ASCII Communications - Host Loaded	5798-RRJ	4070									.0830-2317	VM to EDX to 4994	15X

Keyword	Program Title	Number	OTC	ILC	MLC	DSO	DSI	DSH	MLP	MML	Mo	MoreInfo	Environment	TPLS
3101	3101 Emulation and Document Transfer	5798-RRE	330									.GB30-2303	Displaywriter	15X
3101	3101 Emulation Program	6024-042	149									G520-3917	PC	05Z
3101	3101 Emulation on 5.25" Diskette	6331-472	160									GC22-9263	CSOS Extensions	05M
3101	3101 Emulation on 8" Diskette	6331-474	160									GC22-9263	CSOS Extensions	05M
-3101	3101 Full Screen Control Program Support	5798-RFF	310									.GB30-1639	Series/1	15H
+3101	3101 Terminal Emulation 1 5.25"	5669-073	160									CSOS 1.13		05X
+3101	3101 Terminal Emulation 1 8"	5669-073/01	160									4511		05X
3101	3101 VM Pass-Through Support	5796-PPF	170									.G320-6637	VM/SP,VM/B5EP,VM/SE	15E
3101	3101 emulation Cluster Program	6024-107	99									G520-3917	PC,PCjr,PPC,XT	05Z
3101	Terminal EDX Communications Facility - Airlines	5798-ZZF	1210		55						24	.GB30-1550	Series/1	15X
-3270	CBOL - 3270 Full Screen Support	5796-ATK	1570	143							12	G320-6067	TSO	15H
-3270	DPPX 3270 Data Stream Compatibility	3760-RC1	750	28	637			24	38	61		GC27-0400	DPPX	15K
-3270	Overstrike / Underscore - 3270 DSC	5799-BQH	87									G544-2279	DM45608-SR6	05E
+3270	PC/HOST File Transfer and 3270 Emulation	6476-052	200									G520-6037	MVS,VM,CICS	05Z
-3270	RJE File Transfer - DPPX to PC 3270 Emu	5799-BRQ	1010									GC23-0630	G024-056	05E
3270	SSP 3270 Devise Emulation	5727-SS6/02	1100			825						G580-0570	4773	05H
3270	SSP 3270 Emulation Feature	5727-SS1/04	2500		263	2200						GC21-9021	4508,4509,4603	15A
3270	VM/XA Migration Aid Remote 3270 Option	5664-183	500	2400	800		1800	600	42	67		GC23-0126	VM/XA+VM Pass-thru	15K
-3270	3270 Attached Work Station	5608-SR9	600									G544-2207	Displaywriter	05E
3270	3270 Binary Synchronous Emulation	6024-037	769									G520-3917	PC	05Z
3270	3270 Bisync Pass-Through	5746-AMS	4755		217							.GH20-2403	DOS/VSE+CICS/VS	15X
-3270	3270 Data Stream Compatibility	5608-SR6	600									G544-2049	Displaywriter	05E
3270	3270 Device Emulation on S/34	5726-EM1	5500		223	4125		167				GC21-7807	System/34	15X
3270	3270 Device Emulation BSC	5799-BEZ											System/34	05X
3270	3270 Device Emulation SNA	5799-BGH											System/34	05X
-3270	3270 Emul Upgrade from 8665780	59X9-904/01	75										3278/9 Emul Adapter	05Z
+3270	3270 Emulation Program Entry Level	59X9-904	185										3278/9 Emul Adapter	05Z
-3270	3270 Emulation Program Version 2.0	59X9-951	425									SC23-0892	PC,XT,AT,LAN	05Z
-3270	3270 Emulation Upgrade from 8665780	59X9-951/01	190									SC23-0892	9952	05Z
+3270	3270 Emulation Upgrade from 59X9904	59X9-951/02	240									SC23-0892	9953	05Z
-3270	3270 Emulation Upgrade from 6322526	59X9-951/03	75									SC23-0892	9954	05Z
3270	3270 Emulation & SNA RJE Support	6024-036	769									G520-3917		05Z
+3270	3270 Emulator Support Release 1	5732-005	5900									SC34-0678	System/88	15M
-3270	3270 Screen Image Preprocessor	5796-AFC				123						12.G320-8099	DS, DS/VS	15H
+3270	3270 Terminal Support Release 1	5732-004	4370									SC34-0703	System/88	15M
-3270	3270-PC Emulation Upgrade from SNA 3270	59X9-981	75									6322526		05Z
3270	Emulation EDX Communications Facility	5798-ZZC	968		44							36.GB30-1307	Series/1	15H
+3270	emulation Interactive Executive 3270-PLUS	6317-060	995									.G320-0837	AT+Xenix+SDLC adaptr	05H
+3270-PLUS	Interactive Executive 3270-PLUS	6317-060	995									.G320-0837	AT+Xenix+SDLC adaptr	05H
3276	3276 / 3278 Operator Training Course	5798-CHZ	2115									.GB21-2290	IIS,IIPS	1EH
3277	3277 APL Graphics Attachment Support	5799-AXM	2835		103							.GH20-2146	VSAPI-CMS,TSO,VSPC	15E
-3277	3277 Emulation for Displaywriter	5799-BHT	450									GA09-1679	Displaywriter	05E
-3277	3277 Emulation / Document Transfer	5799-BKG	550									GA09-1679	5799-BKE	05E
-3277	3277 Graphics Attachment Storage Tube	5798-DAG	616		56							12.GB21-2503	MVS,MVS/XA,VM/CMS	15H
-3277	3277 Graphics Attachment Plotter Tablet	5798-DCE	561		51							12.GB21-2598	TSO,VM 85799-AXX/W	15H
3277	emulation TSO Host Server for PC XT/370 (VM/PC)	5798-DTE	2620									G520-3917	MVS+VTAM	15H
3277	emulation Waterloo PC Network Standalone Server	5793-AN	1650									.GB30-2411	DOS+RPS on Series/1	05F
3277	Emulation Yale ASCII Communications - Host Loaded	5798-RRJ	4070									.GB30-2317	VM to EDX to 4994	15X
+3277GA	Graphics Attachment 3277GA, 5080	5799-AXX	4000		150							GH20-2146	VM/CMS,MVS/TSO	15E
3277GA	GDDM Graphics Data File - Color Support	5668-860	1100									GA23-0186	MVS,VMH/371/2/3/5	15E
+3277GA	3270-PC AT/GX 3277GA Emulator	6476-047	1000										3270-PC AT/GX	05H

Keyword	Program Title	Number	OTC	ILC	MLC	DSO	DSI	DSM	HLP	MHL	Mo	MoreInfo	Environment	TPLS
3277GA	737x Industry Std Plotting Commands	5796-BDZ	395										GC23-0120 MVS,VM,RS232+FORTRAN	1SX
+3277GA/5080	Graphics Program Generator 3277GA/5080	5668-941		7000	1250								GH20-5620 VM,MVS+5799-AXX+FORT	1SE
+3278	SSP (5364/62) 3278 Emulation on PC	5727-SS1/15	2250		150	1980							6080,4880,4869,4870	1SA
+3278	SSP (5364) 3278 Emulation on PC	5727-SS6/07	900			675							6091,6095,4873	1SA
3278	3276 / 3278 Operator Training Course	5798-CMZ	2115										.GB21-2290 IIS,IIPS	1EH
+3278/79	3278/79 Emulation	5669-052	500										SV21-8032 AIX 4m on RT	0SH
3278/79	3278/79 Emulation Control Program	6024-134	235										G520-3917 Personal Computer,XT	0SE
3278/9 emulatn	Virtual Machine / Personal Computer 1.1	6024-175	1150										G520-1095 XT/370,AT/370	0SH
3278/9 emulatn	5218 Printer Driver	6293-576	175										G570-2063 PC,XT,3270-PC,PPC	0SZ
3279	Operator Communications Control Facility	5746-XC5	5800		155	5220	139	13	21				GC33-6113 VSE/AF Version 2	1SK
-3279	3279 Executive Presentation System	5798-DEB	4550		345								.GB21-2725 VM,TSD + GDDM	1SH
3290	Batch Terminal Simulator	5668-948	9662	1030	394	7245	773	295	28	46			.GH20-5522 IMS/VS + TSO	1SK
3290	Image View Facility	5785-ECX	5940		270								.G320-0331 DISOS+8815+MVS	1SH
3290	Interactive System Productivity Facilit.2	5665-319		690	218		517	163	30	48			.GC34-2136,MVS	1SK
3290	Report Management & Distribution System	5665-310		5720	858								GC30-3191 MVS+CI/CS/VS,IMS/VS	1SE
3333-11	Support for 3330 - 3333-11	5799-MHZ	nc										.GH20-6376 D0S/VS	NOSC
3350	MVT Support for 3350 / 3350-11	5799-ARG	3600										GH20-9115 OS/MVT	1IC
3375	3380 / 3375 Support PRPQ	5799-BFF		3525	1175		2640	881	55	88			GC26-4001 MVS+5740-AM6	1SK
3380	3380 / 3375 Support PRPQ	5799-BFF		3525	1175		2640	881	55	88			GC26-4001 MVS+5740-AM6	1SK
3600	Advanced Banking Terminal Support 3600	5796-PTJ	165										G320-9147 5796-AXZ	1SX
3600	NPDA 3600 Threshold Analysis	5668-983/01		1210	176		907	132	19	30			GC34-2061 6008,6500,2155,2355	2SK
3600	Program Customizer / 3600 4700	5740-F11				2380							GH20-1587 OS/VS	1IB
3600	3600 Host Support Finance Communication	5744-CA3	nc										GC27-0006 OS/VS	NOSS
3600	3600 Host Support	5747-BR1	nc										GC27-0006 VSE,SSX	NOSS
3600	3600 4700 Administrative Applications	5748-F55	1368		41								GH20-2414 IMS/VS,CI/CS/VS	1SB
3600	3600 4700 Finance Communication	5726-SS1/02	6200		254	4650	190						G580-0295 6010,6513,6557,6510	1SA
3600	3600 4700 Program Customizer	5746-F11			1315								GH20-1587 D0S/VSE	1IB
3600/4700	NPDA 3600/4700 Threshold Analysis	5665-321/01		1210	176		907	132	19	30			2116	2SK
3614	3614 3624 Consumer Online Transactions	5740-F51	22900		802								GH20-2019 OS/VS	1IB
3614	3614 3624 Consumer Online Transactions	5746-F57	21150		741								GH20-2019 D0S/VSE	1IB
-3624	Application Support for 3624 CTF	5798-RDP	9680		880								12.GB30-1626 System/34	1SX
3624	Application Support for 3624 CTF	5798-RRR	13200										.GB30-2243 System/36	1SX
3624	3614 3624 Consumer Online Transactions	5740-F51	22900		802								GH20-2019 OS/VS	1IB
3624	3614 3624 Consumer Online Transactions	5746-F57	21150		741								GH20-2019 D0S/VSE	1IB
3624	3624 Teller Machine IMS/VS Host Support	5796-BB0		1725									12.G320-6427 MVS,ACF/VTAM	1SH
3630	3630 Plant Communication Host Services	5744-CR1	nc										GA24-3721 OS/VS	NOSX
3630	3630 Plant Communication System Host	5747-CJ1	nc										GA24-3721 D0S/VS	NOSX
3630	3630 Plant Monitoring Enhancements	5798-DAH/01			75								24.GB21-2506 9566	1SH
3640	DPPX 3640 Interactive Transaction Gener	5660-267/01	8845		340	7510	289	52	83				GC31-0010 6002,6003,6012,6013	1SK
3640	DPPX 3640 Presentation Services Exec	5660-267	2125		82	1665	70	19	30				GC31-0010 DPPX/BASE	1SK
3640	DPPX 3640 Shop Floor Control System	5796-BBR		345									12.G320-6432 DPPX	1SH
3640	DPPX 3640 Special Support Subroutines	5798-DEJ	484		44								12.GB21-2719 8100/DPPX-COBOL	1SH
3640	3640 CI/CS/ Extensions - 4331 Loops	5799-BEJ		73			55	7	11				D0S/VSE, OS/VS1	1SX
-3640	3640 Industrial Termin - CI/CS Extensions	5798-DMC	3575										.GB21-3040 5660-267	1SX
3640	3640 Presentation Services - Transaction	5798-DMD	1455										.GB21-3042 5660-267	1SX
3644	3644 Parameter Table Generation Facility	5668-998	2400		78	1800	59	8	13				GC31-0009 D0S/VSE, OS/VS1	1SK
3650	COBOL 3650 Programmable Store System	5740-CB2		1070	318		802	238	11	17			GC30-3059 OS/VS	1SK
3650	COBOL 3650 Programmable Store System	5746-CB2		855	285		639	213	11	17			GC30-3059 D0S/VS	1SK
-3650	Simultaneous Printing 3650 Transactions	5798-CZK	297		27								12.GB21-2469 D0S/VS	1SH
-3650	3650 Application Development Debug	5798-DGY	847		77								12.GB21-2883 OS/VS, D0S/VSE	1SH

Keywords - Alphabetic Sequence

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Codes Explained in Appendix B

Keyword	Program Title	Number	OTC	ILC	MLC	DSO	DSI	DSM	MLP	MHI	Mo	MoreInfo	Environment	TPLS
3650	3650 Point-of-Sale Retail Environment	5748-D14	5695		149							48.GC30-3056	DOS/VS,OS/VS	15A
3650	3650 Point-of-Sale Report Customizer	5748-D15	603		16							48.GC30-3054	SPPS II & PSS Host	15A
3650	3650 Programmable Store System SPPS	5747-CJ2	nc									GC30-9535	DOS/VS	NOSJ
3650	3650 PSS SPPS II	5744-DA1	nc									GC30-9535	OS/VS	NOSJ
3650	3650 Retail Store System	5744-B93	nc									GC30-9512	OS/VS	NOSJ
3650	3650 Retail Stores System	5747-BJ1	nc									GC30-5023	DOS/VS	NOSJ
3650	3650 Retail Store System	5747-BJ3	nc									GC30-9514	DOS/VS	NOSN
-3650	3650 Retail Transaction Staging	5798-DDQ	2595		236							12.GB21-2703	OS/VS,VSE 5748-D14	15H
3650	3650 Store Data Management	5748-D22	1160		29							48.GH20-2150	SPPS II & PSS Host	15A
3650	3650 Subsystem Program Prep Support II	5735-D16		1605	577		1200	433	28	45		GC30-9524	DOS/VSE,OS/VS	15K
3650	3650 Supermarket Environment	5748-D21	2770		72							48.GC30-3055	SPPS II & PSS Host	15A
3650	3650 3680 Programmable Store System Host	5744-D16	nc									GC30-3060	Replaced by 5668-912	NOSJ
3650/3680	3650/3680 Language and Host Services 1.2	5668-912		4280	444		3210	333	110	176		GA27-3213	VSE,OS/VS+BTAM,VTAM	15K
3650/3680	3650/3680 Programmable Store System Host	5747-D16	nc									GC30-9536	Replaced by 5668-912	NOSJ
3651	Host Interactive Store Communications	5798-DNH	26400		1200							GB21-3117	MVS+CICS	25H
-3660	EDX S/1 to 3660 Communications System	5796-PTP	1210									G320-9149	Series/1	15X
3660	Supermarket Communication Sys for 3660	5798-NTL			230							12.GB30-1247	System/34	15H
3660	3660 Supermarket System - Host Support	5744-BR1	nc									GC30-3042	OS/VS	NOSJ
3660	3660 Supermarket Store System	5744-BR2	nc									GC30-9504	OS/VS	NOSJ
3660	3660 Supermarket Store System	5747-BK2	nc									GH30-5025	DOS/VS	NOSJ
3680	3650 3680 Programmable Store System Host	5744-D16	nc									GC30-3060	Replaced by 5668-912	NOSJ
3680	3680 Restaurant System	5668-914	1100									GH20-6210	VSE,OS/VS+PSS	15A
3680	3680 Store Systems Sales Application	5735-D61	304		8							48.GH20-5608	SPPS II & PSS Host	15A
3680	3680 Store Systems Administration	5735-D62	504		13							48.GH20-5608	SPPS II & PSS HOST	15A
3694	Check Processing Executive / 3694	5748-F53	2100		66							GH20-2464	5748-F54	15B
3694	Check Processing / Sort 3694	5798-RKQ	400									GB30-1853	S/36 + 5748-F53	15X
3694	Communication Support Facility 3694	5798-RQY	825									GB30-2238	S/36+ICF+5748-F53	15X
3694	Document Control Section Edit 3694	5798-RFL			100							12.GB30-1645	System/34+5748-F53	15X
3694	Sort Preparation Facility 3694	5798-RQZ	825									GB30-2238	System/36+5748-F53	15X
3694	Table Preparation Facility 3694	5798-RKX			100							12.GB30-1645	System/34+5748-F53	15X
3694	Table Preparation Facility 3694	5798-RQX	1650									GB30-2238	S/36+5748F53+5798RFL	15X
3694	3694 Application Macro Expansions	5748-F56	2600		93	1950		70	19	30		GC31-0012	OS/VS,DOS/VSE	15K
3694	3694 Check Processing Executive/General	5798-DKQ	4950									G320-0372	System/38	15H
3694	3694 Debug Test Aid for User Edit Progs	5798-DNJ	1100									GB21-3119	VSE,OS/VS	15X
3694	3694 Independent Release	5658-001	nc									GC31-0013	OS/VS,DOS/VSE	NOSJ
3704/5	3704/5 Emulator Support Package	5744-AM1	nc									GC30-3002	OS/VS,VM	NOSJ
-3704/5	3704/5 EP Trace Editor Program	5798-CHZ	600		60							12.GB21-1822	DOS/VS,OS/VS,MVS/XA	11H
3705	EP/VS - 3704 / 3705 Emulator Support	5747-AG1	nc									GC30-3008	DOS/VS,DOS/VSE	NOSJ
3705-II	PEP Extended Features for the 3705-II	5799-BAF			339			254	26	42		GC30-9540	V51 MVS DOS/VSE VM	25K
3705/20/25	270x Emulation on 3705/20/25 Release 4	5735-XXB		1365	256		1025	192	40	64		GC27-0657	MVS,XA,VSE,VM	25K
3725	Non-SNA Interconnection to 3725 Ver 3.4	5668-951		1605	465		1440	419	43	68		GC33-2023	NCP Ver2+VTAM Ver2	25K
+3728	3728 Matrix Switch Host Facility	5665-428	6000									G520-6040	NetView/NCCP+MVS,XA	15M
+3728	3728 Support Processor	5668-787	12000									GA27-3644	Multiple Com Ctrls	15E
-3760	3760 Batch Data Transfer under CICS/VS	5798-CQB	2110		192							12.GB21-2112	EXTM,TCAM,VTAM	15H
3770/3780	BSC MULTIPDINT (3770-3780)	5799-REJ	nc											NOSJ
-3800	3800 Page Formatting Service	5796-AME	3800		295							12.G320-6067	OS/VS	15H
-3800	3800 90 Degree Print Program	5796-AMX	3145		286							12.G320-6067	DOS/VSE	15H
-3800	ATMS II Multiple Fonts for the 3800	5798-CRH	2110		192							12.GB21-2184	OS/VS+CICS/VS	15H
-3800	Boldface Print Program for the 3800	5798-CRR	1745		159							12.GB21-1942	OS/VS2	15H
-3800	Business Graphing on the IBM 3800	5798-CRB	2310		210							12.GB21-2167	OS/VS	15H

Keyword	Program Title	Number	OTC	ILC	MLC	DSO	DSI	DSM	HLP	MML	Mo	MoreInfo	Environment	TPLS
-3800	HASP Support for 3800	5799-ATQ	6300										GH20-4493 OS/VMT	15C
+3800	Print Services Fac - 3800 Chan Attach	5664-198/02	13375		510	10031		383					0544-3415 4788,4787,6549,6560	25M
3800	Print Services Facility 3800 III Rel 1.1	5665-275		4260	200		3195	150	176	282			0544-3088 MVS	25K
3800	PSF/MVS 3800 Channel Attach Feature	5665-275/01	13375		510	10030		385					2151,6150	25K
-3800	3800 Character Extensions	5798-CZG	330										.GB21-2429 OS/VS D0S/VS	05H
-3800	3800 Character/Graphic / Logo Design Aid	5798-DND	660										.GB21-3095 OS/VS+3800+5740-CB1	15X
-3800	3800 Format II	5798-DAC	847										12.GB21-2496 OS/VS	15H
-3800	3800 Forms Utility	5798-CMH	2420		220								12.GB21-2287 OS/VS, PL/I	15H
-3800	3800 Interactive Business Graphics	5796-PTY	2420										.G320-9138 MVS	15X
-3800	3800 Interactive Character Design	5798-CIJ	1900		181								12.GB21-2191 OS/VS, T50	15H
-3800	3800 Line Inserter	5796-AZK	1120										.G320-6393 OS/VS	15H
-3800	3800 Page Mode - Text and Image Merge	5798-DPK	5500		250								.G320-9185 MVS	15X
-3800	3800 Plotting Facility	5785-AAA	2900		220								.GB21-2154 OS/VS	15H
-3800	3800 Printing Subsystem Support	5747-CC1	nc										GC26-3913 D0S/VSE	NO5S
-3800	3800 Side-by-Side Page Processor	5798-DFW	781		71								12.GB21-2816 OS/VS	15H
-3800	3800 3-of-9 Bar Code Print	5798-DMH	3300										.GB21-3048 OS/VS	15X
3800	3800 90 Degree Print Program	5796-ARE	3430		260								.G320-5825 OS/VS	15H
3800	3800 90 Degree Print Extensions	5796-BAC	858										.G320-6418 5796-ARE,-AMX	15H
3800	3800 90 Degree Rotate Rescaled Char Set	5798-DNK	440										.GB21-3121 MVS+3800-III	15X
3800-3	3 of 9 Bar Code Print 3800-3	5798-DRW	3000										.G320-9243 MVS,XA	25H
+3812	3812 Fonts - Pi and Specials	5669-163	480										3812 Font Mgt System	05H
+3812	3812 Fonts - Sonoran Serif	5669-161	640										3812 Font Mgt System	05H
+3812	3812 Fonts - Sonoran Sans Serif	5669-162	640										3812 Font Mgt System	05H
3812	3812 Pageprinter Driver	6466-981	49										.G320-0819 PC,XT,AT+256k	05E
3812	3812 Pageprinter Font Management System	6466-982	375										.G320-0817 XT,AT+10MB	05H
3814	Multi-System Configuration Mgr for 3814	5665-342			750			675	70	112			GC23-0172 MVS	15K
+3820	Print Services Fac - 3820 Comm Attach	5664-198/01	4000		200	3000		150					G544-3415 4789,4790,6586,6597	25M
3820	PSF/MVS 3820 Communication Attach Feat	5665-275/02	4000		200	3000		150					2161,6160	25K
3820	PSF/VSE 3820 Communication Attach Feat	5666-319/01	4000		200	3000		150					2135,6037	25K
3850	Mass Storage System Extensions 3850	5740-XYG			327			245	54	86			GH35-0034 OS/VS,MVS,XA	15K
3850	Mass Storage Table Maintenance 3850	5796-PHY	7150					279					.G320-5742 OS/VS,MVS,XA	15K
3850	MSWIZAP for the 3850	5799-HPK	nc										MVS/VS1	15K
-3850	3850 Trace Interpretation Package	5785-DBW	3300		250								.GB21-2541 MVS	11H
3880	Cache Analysis Aid Version 4 - 3880	5799-HXA	nc										.GB21-2541 MVS	NO5E
3880	VM HPD Support for 3880	5798-DRJ	2200										.G320-9225 CMS+HPD	15H
3890	CPCS Sort Table Generator	5798-DNG	13200		600								.GB21-3104 MVS,VS1	15H
3890	CPCS 3890 Feature	5734-F11/01			636								GH20-1970 6081,6091	21B
3890	3890 Cycle Sort	5798-CQX	4925		448								12.GB21-2165 D0S/VS, 5798-BDC	15H
3890	3890 Document Processor Support	5746-DC1	2180		122								GC31-0001 D0S/VSE	15B
3890	3890 D0S/VSE Offline Fine Sort II	5798-CF0/01			88								12.GB21-1662 9560	15H
3890	3890 Offline Sort Enhancements	5798-BDY	3140										.GB21-1383 OS/VS	15H
3890	3890 Offline Sort	5798-CFD	1635										.GB21-1662 D0S/VS+5798-BDC	15H
3890	3890 On-Us Editing	5798-DBL	2540		231								12.GB21-2559 D0S/VSE	15H
3890	3890 Online Fine Sort Enhancements	5796-AYF	185										12.G320-6329 5798-CRC and CPCS	15H
3890	3890 Online Fine Sort - CPCS	5798-CRC	10890		990								12.GB21-2170 OS/VS	15H
3890	3890 Online Fine Sort - D0S/VS	5798-CHR	10210		929								12.GB21-2276 D0S/VS D0S/VSE Rel	15H
3890	3890 OS/VS Programming Testing Aid	5798-CBG	3480										.GB21-1444 D0S/VS OS/VS D0S/VSE	15H
3890	3890 Programming Test Aid Enhancement	5798-CBG/01			40								12.GB21-1444 9516	15H
3890	3890 Statement Preparation Sort	5796-ALP	3630		330								12.G320-5715 OS/VS1	15H
+4.2 BSD	Academic Information System 4.2	5799-CGZ	1715										RT	05C

Keywords - Alphabetic Sequence

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Codes Explained in Appendix B



Keyword	Program Title	Number	OTC	ILC	MLC	DSO	DSI	DSM	HLP	HML	Mo	MoreInfo	Environment	TPLS
+4-User	Network REVELATION tm 4-User Upgrade	6187-232	500									.GB30-2037	PC,XT,AT,3270-PC	05Y
4byte int arith	FORTRAN Compiler Version 2	6024-127	385									G520-3917	D052+	05Z
401K	Payroll 401K Tax-Deferred Savings Plan	5798-RMK	300									.GB30-2493	S/36 DMAS Payroll	15H
401K	401K Tax-deferred Savings Plan	5798-RMF	300									.GB30-3316	S/38 MAPICS Payroll	15X
401K	401K Tax-deferred Savings Plan	5798-RMG	300									.GB30-3316	S/34 MAPICS Payroll	15X
401K	401K Tax-deferred Savings Plan	5798-RMH	300									.GB30-3316	S/36 MAPICS Payroll	15X
4250	Advanced Text Management System III	5740-XYL	25410		1155							.GH20-2404	CICS/OS/VS	25B
4250	Candida tm	5771-ABD	800									G520-0004	CDPF (5668-997)	11E
4250	Excelsior tm	5771-AAG	480									G520-0004	CDPF (5668-997)	11E
4250	4250 Futura tm	5771-AAH	960									G520-0004	CDPF (5668-997)	11E
4250	4250 Helvetica tm	5771-AAK	960									G520-0004	CDPF (5668-997)	11E
4250	4250 ITC Avant Garde Gothic tm	5771-AAA	640									G520-0004	CDPF (5668-997)	11E
4250	4250 ITC Souvenir tm	5771-AAQ	640									G520-0004	CDPF (5668-997)	11E
4250	4250 Monotype Baskerville tm	5771-AAB	640									G520-0004	CDPF (5668-997)	11E
4250	4250 Monotype Bodoni tm	5771-AAC	640									G520-0004	CDPF (5668-997)	11E
4250	4250 Monotype Century tm	5771-AAE	640									G520-0004	CDPF (5668-997)	11E
4250	4250 Monotype Century Schoolbook tm	5771-AAF	640									G520-0004	CDPF (5668-997)	11E
4250	4250 Monotype Garamond tm	5771-AAJ	640									G520-0004	CDPF (5668-997)	11E
4250	4250 Monotype Rockwell tm	5771-AAP	640									G520-0004	CDPF (5668-997)	11E
4250	4250 Monotype Times New Roman tm	5771-AAR	640									G520-0004	CDPF (5668-997)	11E
4250	4250 Optima tm	5771-AAL	640									G520-0004	CDPF (5668-997)	11E
4250	4250 Palatino tm	5771-AAN	640									G520-0004	CDPF (5668-997)	11E
4250	4250 Typewriter and Pi tm	5771-AAN	800									G520-0004	CDPF (5668-997)	11E
4250	4250 Univers tm	5771-AAT	1280									G520-0004	CDPF (5668-997)	11E
4250	6670 II Image Printing System	5785-FAZ	660									G520-0332	Font files,edit+PL/I	15H
4471	5218 Printer Sharing (Feature 4471)	6113-650	625									G570-2063	PC,XT	05Z
+4680	4680 BASIC	5669-034	2500									SC30-3356	4680 Operating Systm	15M
+4680	4680 General Sales Application	5669-031	900									SC30-3367	4680 Operating System	15M
+4680	4680 General Sales Applic Source Code	5669-031/01	10000									SC30-3367	7898	15M
+4680	4680 Operating System	5669-033	1250									SC30-3367	AT Store Controller	15M
+4680	4680 Operating System Mult Contrlr Feat	5669-033/01	625									SC30-3367	4606,9001,5898	15M
+4680	4680 Supermarket Application	5669-032	2250			437						GC20-3371	4680 OS 1.2	15M
+4680	4680 Supermarket Application Sourcecode	5669-032/01	10000									GC20-3371	4643,7898	15M
4700	Branch Electronic Reports System - 4700	5799-BZN	220									SH17-5500	BEFS Host	15E
+4700	BANCStar tm 4700 Account Opening	6430-784	750									PC,XT,AT+4700		05E
+4700	BANCStar tm 4700 Mortgage Loan	6430-785	1995									PC,XT,AT+4700		05E
+4700	BANCStar tm 4700 Consumer/Consumer Loan	6430-786	1995									PC,XT,AT+4700		05E
+4700	BANCStar 4700 Generator	6430-788	4500									PC,XT,AT+4700		05E
+4700	BANCStar 4700 Mtg.Consumer/Consumer Loan	6430-787	2995									PC,XT,AT+4700		05E
4700	BRANCHBANKER tm 4700	6430-783	500									GB20-2037	PC AS (6934406)	05E
4700	COBOL Support for 4700 Finance System	5666-266		1070	375		802	280	66	106		GL23-0078	D05/VSE	15K
4700	COBOL Support for 4700 Finance System	5668-987		1495	520		1120	388	82	131		GL23-0078	05/VS,MVS/XA	15K
4700	Program Customizer / 3600 4700	5740-F11										GH20-1587	05/VS	11B
4700	3600 4700 Administrative Applications	5748-F55	1368		41							GH20-2414	IMS/VS,CICS/VS	15B
4700	3600 4700 Finance Communication	5726-SS1/02	6200		254	4650		190				G580-0295	6010,6513,6557,6510	15A
4700	3600 4700 Program Customizer	5746-F11			1315							GH20-1587	D05/VSE	11B
4700	4700 Advanced Branch Controller Version2	5799-BZE	1200										4700 Host Support	15E
4700	4700 ABC Upgrade from Version 1 (5799BQY)	5799-BZE/01	450										4676	15K
4700	4700 AMG Upgrade from 5799-80Z	5668-934/01	13500										4712	15K
4700	4700 AMG Upgrade from 5799-BZD	5668-934/02	10500										4713	15K

Keyword	Program Title	Number	OTC	ILC	MLC	DSO	DSI	DSH	MLP	MML	Mo	MoreInfo	Environment	TPLS	
+4700	4700 Controllor Resource Manager Ver 2	5668-753	1700										4700 FCS	15M	
4700	4700 Finance System - Applic Map Genertr	5668-934	21000		1495	18900			48	77			5668-969+5748-XXH	15K	
4700	4700 Finance System - Controllor Manager	5668-935	1300						38	61		GC31-0508	5668-989+5668-934	15K	
4700	4700 Finance System - Host Support 1.5	5668-989		2070	647		1555	484	181	290		GC31-2019	MVS,XA,VSE,SSX	15K	
4700	4700 Finance System - Adv Branch Control	5799-BQY	800										OS/VSE+5668-969	15E	
4700	4700 Finance System - Format Distributn	5799-BQZ	11000			979							5668-989+5799-BQY	15E	
4700	4700 Format Distribution Services V2	5799-BZD	16500		1470								4700 Host Support	15E	
4700	4700 FCS CRM - Upgrade from 5799-BQY	5668-935/01	550										4714	15K	
4700	4700 FCS CRM - Upgrade from 5799-BZE	5668-935/02	450										4715	15K	
4700	4700 FDS Upgrade from V1 (5799-BQZ)	5799-BZD/01	7500										4675	15E	
4700	4700 Online Terminal Support	5799-BGB	1600		62							GC31-0022	System/34 and 36	15B	
4700	4700 PC Application Services	6934-406	300									G221-2493	PC,XT	05H	
+4700	4700 Resource Manager - Teller Applicatn	5668-751	350										4700 CRM Ver 2	15M	
4700	4700 Resource Manager - Platform Applic	5668-752	300										4700 CRM Ver 2	15M	
+4700	4700 Resource Mgr - Consumer Loan Applic	5668-778	1200										4700 CRM Ver 2	15M	
4700	5250 Emulation for the 4700	5799-BZL	1995									SC31-3588	Systems/34, 36, 38	15E	
4720	Forms / Passbook Printer - 4720 FCS	5799-BJE	1500										DOS/VSE, OS/V5+3600	15L	
4730	4730 Availability Mat-Batch Reporting	5668-873	14000			995	12600				44	70	GC31-0523	VSE,OS/V5+COBOL	15K
4730	4730 Customization Image Builder Rel 2	5668-870	6000			535	5400						GC31-0029	SSX,VSE,VS1,MVS,XA	11E
4730	4730 Financial Application Extension	5799-BZR	23000										CICS	15X	
+4730	4730 Financial Application Extension IMS	5799-CJN	45000										MVS	15H	
4730	4730 Network Monitor	5668-871	20000		1710	18000					43	69	GC31-0033	CICS/VSE,VS,IMS/VS	15K
+4730	4730 Remote Network Monitor	5668-872	2500										GC31-3572	4700 CRM Ver 2	15M
+484	Modicon 484 Draftec	5793-AHE/01	950										Industrial PC	05Y	
+484	Modicon 484 Ladder Logic Documentation	5793-AHE	1250										Industrial PC	05Y	
+484	Modicon 484 Hiring Diagram Generator	5793-AHE/02	500										Industrial PC	05Y	
484/584/884	Taylor Industrial - Modicon 484/584/884	5793-AGD	2500									GB30-2037	5531,7531,7532	05Y	
490	GDDM Interactive Map Definition	5748-XXH/02		767	214		575	161	22	35			GC33-0100	6084,2101,6503,2301	15K
4963	CPS 4963 Subsystem	5799-TCZ	312			16						24	GC34-1638	Series/1	15C
4963/4966	CPS 4963/4966 Save/Restore	5799-TDK	358			15						24	GC34-1622	Series/1	15C
4965	CPS 4965 Support	5799-TEK	1000			44						24	GC34-1717	Series/1	15E
4969	CPS 4969 Mag Tape Subsystem	5799-TDM	1176			59						24	GC34-0347	Series/1	15C
4978/4979	CPS 4978/4979 Display Station	5799-TAK	168			7						24	GC34-1575	Series/1	15C
4978/4979	CPS 4978/4979 Display Map	5799-TBE	120			5						24	GC34-1585	Series/1	15C
4979	CPS 4979 Display Station	5799-TAE	48			2						24	GC34-1854	Series/1	15G
498	OFFICE/38 Administrative Mgmt	5714-WP1	1500				1320						GC21-7951	System/38	15E
4991-201	CPS 4991-201 Mag Stripe Card Reader	5799-TAJ	336			14							Series/1	05C	
511 tm	EDX to Texas Instruments (R) Controllers	5719-THA	5000										GC34-0099	5719-CF1	15H
511,II520	EDX to Texas Instruments (R) Controllers	5719-THA	5000										GC34-0099	5719-CF1	15H
+5080	Graphics Attachment 3277GA, 5080	5799-AXX	4000		150								GH20-2146	VM/CMS,MVS/TSO	15E
5085 Graphics	737x Industry Std Plotting Commands	5796-BDZ	395										GC25-0120	MVS,VM,RS232+FORTRAN	15X
5150	Hardware Maintenance and Service	6025-072	155										G520-3917	PC	05Z
5150	Yale ASCII Communications - Host Loaded	5798-RRJ	4070										.GB30-2317	VM to EDX to 4994	15X
5182 Color prtr	Print Screen Utility	6024-186	35										G520-3917	PC,XT+D052	05Z
5210	5210 Full Function Support	5798-DTA	3850										G320-9256	VM+52100 Printer	25H
5218	5218 Printer Attachment Convenience Pac	6113-651	220										G570-2063	PC,XT	05Z
5218	5218 Printer Driver	6293-576	175										G570-2063	PC,XT,3270-PC,PPC	05Z
5218	5218 Printer Sharing (Feature 4471)	6113-650	625										G570-2063	PC,XT	05Z
5224	Advanced Printer Functions 5224	5714-UT2	1200			1056							GC21-7971	System/38+5224/5225	15A
5224	5224 / 5225 Advanced Printer Function	5727-AP1	700			615							GC21-7981	System/36	15X

Keywords - Alphabetic Sequence

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Codes Explained in Appendix B

Keyword	Program Title	Number	OTC	ILC	MLC	DSO	DSI	DSM	HLP	MML	Mo	MoreInfo	Environment	TPLS
5224	5224 / 5225 Advanced Printer Function	5799-BFN	525									GC21-7922	System/34	15E
5224/5	Business Graphics Utilities	5799-BNW	600									G580-0571	System/36	15X
5224/5225	5224/5225 Advanced Printer Function	5727-AP6	280					210				G580-0570	System/36	PC 05H
5225	5224 / 5225 Advanced Printer Function	5727-AP1	700				615					GC21-7981	System/36	15X
5225	5224 / 5225 Advanced Printer Function	5799-BFN	525									GC21-7922	System/34	15E
5230	5230 Data Collection Support	5726-M5A	1575		77							.GH30-0220	System/34	11C
5247	Attorneys Info System 5247 Disk Support	5796-ZBH/01	750									.GB30-2029	3022	11X
5250	Executive Data Link to PC (5250 Emulate)	5798-RRP	2750									.GH30-9029	CMAS/34	15X
5250	Executive Data Link to PC (5250 Emulate)	5798-RRZ	2750									.GH30-9030	CMAS/36	15X
5250	5250 Emulation for the 4700	5799-BZ1	1995									SC31-3588	Systems/34, 36, 38	13E
5250	5250 Emulation Prog for PC or XT	6092-651	164									G520-3917	PC,XT+S/34, 36, 38	15X
5250	5250 Emulation Convenience Kit	6092-656	745									G520-1107	PC+S/34, 38	05X
+5250	5250 Enhanced Emulation 2.1 Convence Kit	55X3-364	845									G570-2221	PC,XT,AT,PPC	05Z
-5250	5250 Enhanced Emulation Upgrade to 2.1	6386-352	50									G570-2221	PC,XT,AT,PPC	05Z
+5250	5250 Enhanced Emulation Program 2.1	6386-354	160									G570-2221	PC,XT,AT,PPC	05Z
5250	5250 Remote Emulation Program	6403-685	195									G520-1107	PC,XT,PPC,AT+S/36, 38	05Z
5251 Emulation	Executive Data Link to PC	5798-RRQ	2750									.GB30-2392	System/34+PC	15X
5251 Emulation	Executive Data Link to PC	5798-RRR	2750									.GB30-2393	System/36+PC	15X
5253 emulation	5520 Attach Kit V3 (Feat 2896) Incl 289	6403-724	875									G520-3917	All except PCjr	05C
5253 emulation	5520 Attach Version 3 (Feature 2895)	6403-725	384									G520-3917	All except PCjr	05C
5253 Emulation	5520 Personal Computer Attachment Ver 1	7033-703	164									G570-2026	PC	05Z
5260	Retail Inventory Planning & Mds	5796-ZGT	66000									.GB30-2319	System/36	15X
-5280	System/34 to 5280 Report Transfer	5798-RDB	330									.GB30-1581	System/34	15X
5280	5280 Computer-Assisted Training	5798-RLF	550									.GB30-1923	5280 Data System	15X
5292	Business Graphics Utility	5714-GP1	2000		107	1760		94				GC09-1060	System/38	15E
5292	Business Graphics Utilities	5799-BTA	1550									G580-0454	System/34	15X
5294 model 2	Business Graphics Utilities	5799-BNW	600									G580-0571	System/36	15X
+5360/62	SSP (5360/62) 3278 Emulation on PC	5727-SS1/15	2250		150	1980						6080,4880,4869,4870		15A
+5364	SSP (5364) 3278 Emulation on PC	5727-SS6/07	900			675						6091,6093,4875		15A
5520	DisplayComm Binary Synchronous Communica	6024-187	409									G520-3917	PC,XT,PPC	05Z
5520	Document Distribution to Remote 5520	5798-RPJ	1540									.GB30-2213	System/36+5520	15X
5520	System/38 to 5520 Communication BSC	5796-PZJ	2475									G520-9236	5714-SS1+5611-SS1	15H
5520	5520 Administrative Processing Prog 3.2	5611-SS2	10500		445							GC23-0702	5520 Admin. System	15A
5520	5520 Attach Kit V3 (Feat 2896) Incl 289	6403-724	875									G520-3917	All except PCjr	05C
5520	5520 Attach Version 3 (Feature 2895)	6403-725	384									G520-3917	All except PCjr	05C
-5520	5520 Documents - Host Store & Forward	5798-RHA	12100		1100							12.GB30-1690	TCAM, VTAM	15X
5520	5520 Installation Convenience Kit	6109-558/01	729									2882		05E
5520	5520 Personal Computer Attachment Ver 2	6109-558	284									G520-2045	PC, XT	05E
5520	5520 Personal Computer Attachment Ver 1	7033-703	164									G570-2026	PC	05Z
5520	5520 PC Attach Installation Kit	7033-703/01	893									G570-2026	2890	05Z
5727-M4X	Cross App - Upgrade from 5727-M4X	5727-M7X/01	946							832		.		15E
5727-M45	Inven Mgt for Proc - Upgr from 5727-M45	5727-M7N/01	17500				15400					.	4081,9733	15E
5793-AFZ	Info Sys for Attnys Upgr from 5793-AFZ	5793-AFX/01	2100									.	4535	05H
5793-AGA	Info Sys for Attnys Upgr from 5793-AGA	5793-AFY/01	1600									.	4533	05X
+5796-ZGX	Auto Dealer Acctg, Upgr from 5796-ZGX	5796-ZNX/01	1875									GB30-6013	System/36	15H
+5796-ZHA	Auto Dealer, Service, Upg from 5796-ZHA	5796-ZPA/01	50									GB30-6013	System/36	15H
+5796-ZHB	Auto Dealer, Leasing, Upg from 5796-ZHB	5796-ZPB/01	50									GB30-6013	System/36	15H
+5796-ZHC	Auto Dealer, Mgt Rpt, Upg from 5796-ZHC	5796-ZPC/01	50									GB30-6013	System/36	15H
+5796-ZHE	Auto Dealer, Cust, Upg from 5796-ZHE	5796-ZPE/01	50									GB30-6013	System/36	15H
+5796-ZHF	Auto Dealer, Traffic, Upg from 5796-ZHF	5796-ZPF/01	50									GB30-6013	System/36	15H

Keyword	Program Title	Number	OTC	ILC	MLC	DSO	DSI	DSM	MPL	MML	Mo	MoreInfo	Environment	TPLS	
+5796-ZHG	Auto Dealer, Veh Ctl, Upg from 5796-ZHG	5796-ZPG/01	50									.GB30-6013.	System/36	15H	
+5798-RJG	Fixed Asset Acctg - Upgr from 5798-RJG	5798-RMT/01	600									.GB30-6010	4408,9049	15H	
5798-RRY	Make-to-Schedule Upgrade from 5798-RRY	5798-RME/01	1050										4704	15H	
5799-BQY	4700 FCS CRM - Upgrade from 5799-BQY	5668-935/01	550										4714	15K	
5799-BQZ	4700 AMG Upgrade from 5799-BQZ	5668-934/01	13500										4712	15K	
5799-BQZ	4700 FDS Upgrade from VI (5799-BQZ)	5799-BZD/01	7500										4675	15E	
5799-BZD	4700 AMG Upgrade from 5799-BZD	5668-934/02	10500										4713	15K	
5799-BZE	4700 FCS CRM - Upgrade from 5799-BZE	5668-935/02	450										4715	15K	
+584/884/984	Modicon 584/884/984 Ladder Logic Documen	5793-AHF	2500									SC23-0892	9954	05Y	
+59X9904	3270 Emulation Upgrade from 59X9904	59X9-931/02	240											05Z	
+59X9939	Ups XENIX or PCIX Devt Sys to 59X9939	59X9-934	299										SoftDev 1.0 or 1.1	05Z	
+59X9941	Ups XENIX or PCIX Text 1.0 to 59X9941	59X9-935	99										Text Form 1.0 or 1.1	05Z	
-6024195	PC LAN Upgrade from PC Network 6024195	6280-084	65									G227-6002	PC Network	05Z	
+6316971	Attachment/370+ Upgrade from 6316971	6467-046	101									GH50-0760	Attach 370 Edition	05G	
-6322526	3270 Emulation Upgrade from 6322526	59X9-951/03	75									SC23-0892	9954	05Z	
6640 Ink Jet Pr	EDX Communications Facility	5798-ZZC	968			44						36.	.GB30-1307	Series/1	15H
6670	DisplayComm Binary Synchronous Communica	6024-187	409										G520-3917	PC,XT,PPC	05Z
6670	Remote Spooling Communications / SNA	5798-DMJ	4950										.GB21-3050	VM+RSCS	15X
6670	6670 Fonts Library	5799-BGK	25											MVS	05C
6670	6670 Fonts Library	5799-BGL	25											VSE	05C
6670	6670 Fonts Library	5799-BGN	25										S/34,S/38,8100,S/36		05C
6670	6670 Fonts Library	5799-BGQ	25										VM		05C
6670	6670 Information Distributor Support	5798-RPK	1210									.GB30-2219	System/36	15X	
6670	6670 Information Distributor	5798-RRB	2060									.GB30-2301	System/38	15X	
6670	6670 II Image Printing System	5785-FAZ	660									G320-0332	Font files,edit+PL/I	15H	
-6670	6670 Mod II Font Editing System	5785-FAN	880										.GB21-3068	OS/V,VM	15X
6670	6670 Preprocessor	5798-DKB	3045										.GB21-2974	MVS,VM	15E
-6670	6670 Presentation Enhancements	5798-DNQ	880										G320-9159	MVS, VM, VM+5798-DKB	15X
6670	6670 Usability Aid	5798-DFP	5500			250							G320-0368	VM+6670	15H
6670 Fonts IV	TRANSLATOR Burroughs COBOL 5, 6 & 7000	5798-DFP	5500			250							G320-0368	VM+6670	15H
7000	TRANSLATOR Burroughs COBOL 5, 6 & 7000	5796-PYN	46200										G320-9204	MVS+ISPF	05H
7040/7044	7040/7044 Emulator	5744-AK1	nc										GC27-6948	OS/V,S	N05C
7070/7074	7070/7074 Emulator	5744-AJ1	nc										GC27-6948	OS/V,S	N05C
7080	7080 Emulator	5744-AL1	nc										GC27-6952	OS/V,S	N05C
7087	Financial Management System	5665-309		10110	1815		75801360	280	448				GH19-6274	MVS,XA+IMS/DB+COBOL	25K
7090/7094	7090/7094 Emulator	5744-AM1	nc										GC27-6983	OS/V,S	N05C
7350	High Level Image Processing System	5785-ABB	13550			615							G320-9211	VM+PL/I+HBUS+V350	15H
7361	7361 Fastdraft System	5719-GP1				1070	160						GC34-0513	7361+3101+3251	25X
737x	737x Industry Std Plotting Commands	5796-BDZ	395										GC23-0120	MVS,VM,RS232+FORTRAN	15X
737x plotters	GDMM Graphics Data File - Color Support	5668-860	1100										GA23-0186	MVS,VM+7371/2/3/5	15E
7371/2 Plotters	Business Graphics Utilities	5799-BNN	600										G580-0571	System/36	15X
7372	Personal Decision Series - Graphs Editn	6410-938	225											Data Edition+color	05G
7372 Plotter	Business Graphics Utilities	5799-BTA	1550										G580-0454	System/34	15X
7456	EDX Indust Terminals - Transaction Edit	5798-RRD	1980										.GB30-2332	Series/1	15X
750	Personal Decision Series - Graphs Editn	6410-938	225											Data Edition+color	05G
80	TRANSLATOR Univac (R) System 80 COBOL	5796-PYR	46200										G320-9204	MVS+ISPF	05H
8087	Digital Research FORTRAN 77 tm	6871-437	350										.GB20-2037	PC,ST,3270-PC	05Y
8087	Professional Debug Facility	6024-143	165										G520-1107	PC,XT,PPC	05Z
8087 Math CoPro	PC Interactive Executive	1753-369	989										GH20-6247	PC,XT,XT/370,AT+10MB	05E
8087 MathCoPro	TURBO PASCAL	6187-326	70										.GB30-2037	PC,XT,AT,PCjr	05Y

Keywords - Alphabetic Sequence

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Codes Explained in Appendix B

Keyword	Program Title	Number	OTC	ILC	HLC	DSO	DSI	DSH	HLP	HML	Mo	MoreInfo	Environment	TPLS
8087 option	Pascal Compiler Version 2	6024-128	385									G520-3917	D0S2+	0S2
8087 optional	F0RTRAN Compiler Version 2	6024-127	385									G520-3917	D0S2+	0S2
-8200	COBOL Conversion Aid from NCR 8200	5798-NYR	990									.G830-1433	System/34	0SH
-8665780	3270 Emul Upgrade from 8665780	59X9-904/01	75										3278/9 Emul Adapter	0S2
-8665780	3270 Emulation Upgrade from 8665780	59X9-951/01	190									5C23-0892	9952	0S2
+9001	Personal Editor 1 9001 5.25" diskette	5669-076/01	125										4508	0SX
+9001	Personal Editor 1 9001 5.25" diskette	5669-076/02	125										4508 w/o printer	0SX
+9001	Personal Editor 1 9001 8" diskette	5669-076/04	125										4508	0SX
+9001	Personal Editor 1 9001 8" diskette	5669-076/05	125										4508 w/o printer	0SX
+9002	Personal Editor 1 9002 5.25" diskette	5669-076	125										C505 Ext 1.13	0SX
+9002	Personal Editor 1 9002 8" diskette	5669-076/03	125										4508	0SX



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## **Section Four**

## **Clusters (Interest Areas)**

## Software Clusters (yellow pages)

CLUSTER NAME	PAGE	CLUSTER NAME	PAGE
<b><i>Cross Industry Applications</i></b>		IMS Data Communications and Aids	4-64
Computer Based Training	4-14	Information Systems Management	4-73
Data Entry	4-24	Job Entry Subsystems	4-78
Engineering and Scientific	4-41	MVS, TSO Utilities and Aids	4-82
General Business	4-51	MVS Data Base and Aids	4-80
Graphics	4-53	Storage Subsystems	4-107
Office Automation	4-85	VM, CMS Utilities and Aids	4-127
		VSE, SSX Utilities and Aids	4-130
<b><i>Information Center—Professional Support</i></b>		VSE, VM Data Base and Aids	4-133
Application Development—Generators and Aids	4-1	VS1, Utilities and Aids	4-134
Application Development—Tools and Aids	4-3		
Decision Support and Query	4-26	<b><i>Distributed Systems</i></b>	
IBM Information Network	4-60	4300	4-135
Programming Languages and Aids	4-93	5280 Distributed Data System	4-136
Project Management	4-98	5520 Administrative System	4-137
		8100 DPCX and DPPX	4-138
<b><i>Operating Systems &amp; Subsystems</i></b>			
Auditor and Security	4-5	<b><i>Minicomputers</i></b>	
CICS and Aids	4-6	Series/1	4-102
Communications Subsystems	4-8	System/34	4-109
Conversion and Emulation Support	4-18	System/36	4-113
		System/38	4-121

A subscription card to these Clusters is provided in back.



## Software Clusters (cont'd)

CLUSTER NAME	PAGE	CLUSTER NAME	PAGE
<b><i>Microcomputers</i></b>		Financial Services	4-47
Displaywriter	4-31	Health and Medical	4-58
Instrumentation and Robotics	4-75	Human Resources	4-59
Personal Computer (rose pages)	2-1	Industrial Sector	4-65
<b><i>Industry Applications</i></b>		Insurance	4-77
Construction	4-16	Media	4-79
CPA, Legal and Consulting Professionals	4-20	Public Sector	4-99
Distribution	4-32	Retail and Store Systems	4-100
Education	4-35	Transportation	4-125
		Utilities	4-127

A subscription card to these Clusters is provided in back.

## Software Clusters, alphabetic (cont'd)

CLUSTER NAME	PAGE	CLUSTER NAME	PAGE
Office Automation	4-85	Transportation	4-125
Personal Computer (rose pages)	2-1	Utilities	4-126
Printing Subsystems	4-90	VM, CMS, Utilities and Aids	4-127
Programming Languages and Aids	4-93	VSE, SSX, Utilities and Aids	4-130
Project Management	4-98	VSE, VM Data Base and Aids	4-133
Public Sector	4-99	VS1, Utilities and Aids	4-134
Retail and Store Systems	4-100	4300 Distributed	4-135
Series/1	4-102	5280 Distributed Data System	4-136
Storage Subsystems	4-107	5520 Administrative System	4-137
Supermarket	4-108	8100 DPCX and DPPX	4-138
System/34	4-109		
System/36	4-113		
System/38	4-121		

A subscription card to these Clusters is provided in back.

## Software Clusters, alphabetic

CLUSTER NAME	PAGE	CLUSTER NAME	PAGE
Application Development Generators and Aids	4-1	General Business	4-51
Application Development Tools and Aids	4-3	Graphics	4-53
Auditor and Security	4-5	Health and Medical	4-58
CICS and Aids	4-7	Human Resources	4-59
Communications Subsystems	4-8	IBM Information Network	4-60
Computer Based Training	4-14	IMS Data Communications and Aids	4-64
Construction	4-16	Industrial Sector	4-65
Conversion and Emulation Support	4-18	Information Systems Management	4-73
CPA, Legal and Consulting Professionals	4-20	Instrumentation and Robotics	4-75
Data Entry	4-24	Insurance	4-77
Decision Support and Query	4-26	Job Entry Subsystems	4-78
Displaywriter	4-31	Media	4-79
Distribution	4-32	MVS Data Base and Aids	4-80
Education	4-35	MVS, TSO, Utilities and Aids	4-82
Engineering and Scientific	4-41		
Financial Services	4-47		

A subscription card to these Clusters is provided in back.

## Application Development

This topic is presented as two Clusters. The first treats those programs that are application generators. The second is a companion Cluster of tools and aids for application developers. Increasingly the trend is to move larger amounts of the development process into the domain of the professional analyst and the user. When host data bases or communications are involved it is important that executives of the host Information System provide consistency and protocol.

Professional end users and application developers should examine carefully the recently announced PC/IX for the Personal Computer. It includes (among other components): text editor and formatter, communications, games, multitasking

operating system, assembler, command language, hierarchical data base, and the very powerful C compiler. See the article in the rose pages.

Also see CSP and ISPF, significant development programs for the System/370, in the Software Fair pages. ISPF and the Data and Reports Editions of the Personal Decision Series are recommended reading in the rose pages. Application developers also should familiarize themselves with the Clusters: Decision Support, Information Network, Programming Languages, and the Data Base Cluster for their operating system.

Program Title	Short Name	Number	OTC	ILC	MLC	DSO	DSI	DSH	HLP	HML	Mo	MoreInfo	Environment	TPLS
A Departmental Reporting System	ADRS/PC	6428-092	355									.GH20-0023	PC	05X
A Departmental Reporting System II	ADRS-II	5796-PLN	3490		196							.G320-6097	VSAFL	11X
ADRS II Business Graphics Feature		5796-PLN/02	1940		108							.G320-6668	4697,4688	11E
-ADRS-II Introduction		5798-DFC	1385		105							.GB21-2780	I1S,I1P5	1EH
Application Development Facility II V1	IMSADF	5668-937		3950	1315		2960	987	214	342		.GH20-5597	Superceded by V2	15X
Business Report Application Development	BRADS III	5715-RG2	1365									.G280-0237	Sys/23 Datamaster	11X
Business Report Application Development	BRADS	5726-BR1	1650									.GB30-2554	System/34	11X
CICS to 3270-PC File Transfer Program		5798-DQH	660									.G320-0369	CICS+3270-PC CP	15H
COBOL VS II Compiler and Library 1.1		5668-958		6420	1070		4812	802	53	85		GC26-4042	MVS,XA,VM	15K
COBOL VS II Library Only		5668-940		2550	425		1908	318	53	85		GC26-4042	MVS,XA,VM	15K
Cross System Product / Applic Devt Ver 1	CSP/AD	5668-944	5565	960	227	5005	720	172	34	54		.GH20-0940	CSP/Applic Execution	25K
Cross System Product / Applic Execution	CSP/AE	5668-825	8275		412	7450			19	30		.H206-426	CICS,MVS,SSX,VM	25K
Cross System Product / Applic Execution	CSP/AE	5668-945	4200	720	172	3780	540	128	22	35		.GH20-0940	CICS/DOS/VS,SSX,VM	25K
Cross System Product / Application Exec.	EZ-Run	6317-010	135									.G520-6004	PC,XT,AT,XT/370,3270	05G
Cross System Product-Data Base 2 Interfa		5796-TBZ	6000									.GH20-9241	CSP+DB2	15H
Cross System Product/Application Dev V2	CSP/AD	5668-824	10970		550	9870			26	42		.GH20-6750	CICS,MVS,SSX	25K
Cross System Product/Application Generat	EZ-Prep	6317-011	1319									.G520-6004	EZ-VU Runtime	05G
CSP Development - CICS/OS/VS TSO		5668-944/01	4855		227	4370		172	34	54		.4519,4672,6519,6566		25K
CSP Development - VM/CMS		5668-944/02		960	160		720	120	32	51		.4538,2120,9539,2320		15K
CSP Execution - CICS/OS/VS TSO		5668-945/01	2490		117	2245		86	22	35		.4532,4676,6532,6568		25K
CSP Execution - VM/CMS		5668-945/02		700	120		540	90	22	35		.4537,2121,9537,2321		25K
CSP/AD CICS/OS/VS & TSO Feat Upg from V1		5668-824/03	6560			4920						.5614		25K
CSP/AD CICS/OS/VS and TSO Feature		5668-824/02	10340		467	9305			26	42		.4688,4689,6572		25K
CSP/AD Upgrade from Version 1		5668-824/01	6425			4820						.4692		25K
CSP/AE CICS/OS/VS & TSO Feat Upg from V2		5668-825/03	6490			4865						.4691		25K
CSP/AE CICS/OS/VS & TSO Feature		5668-825/02	7810		357	7025			19	30		.4686,4687,6574		25K
CSP/AE Upgrade from Version 1 to 2		5668-825/01	4850			3640						.4690		25K
Development Management System / CICS	DMS/CICS	5740-XC5	8380		533	6285			54	88		.GH20-0125	CICS/VS/OS	15K
Development Management System / CICS	DMS/CICS	5746-XC4	4730		330	3545		164	54	88		.GH20-2195	CICS/VS/005	15K
-Development Management System Debug-II	DMS	5798-DNB	1320									.GB21-3091	CICS/VS	15X
-DMS Model-Based Application Generator		5798-DNA	2750									.GB21-3089	CICS/VS	15X
DMS/CICS Application Generation Feature		5740-XC5/01	11410		533	8560		347	54	88		.GH20-2195	4558,4560,6513,6577	15K
DMS/CICS Application Generation Feature		5746-XC4/01	7040		330	5280		246	51	82		.GH20-2195	6082,4538,6541,6501	15K
-DMS/CICS/VS Online Debugging Aid		5798-DEC	660									.GB21-2727	OS/VS, DOS/VSE	15H
IMS/CMS XT/370		5748-XXB/01	144		4							3005,3009		05G
DPCX Development Management System	DMS/DPCX	5748-XC4	25730		939	19290		703	94	151		.GH20-2423	TSO,CICS,CMS	15K
Entry Level Interactive Application SSX	ELIAS	5666-291		1165	224		876	167	14	22		.GH19-6269	SSX/VSE	15K
Entry Level Interactive Application Syst	ELIAS-I	5746-XXV	5190		236	3915		162	13	21		.GH19-6218	DOS/VSE, CICS/VS, DL/I	15K
Entry Level Interactive Application Syst	ELIAS-I/VM	5748-XXX	8005		364	5960		271	28	46		.GH19-6157	VM/CMS, CICS/VS, DL/I	15K
IMS Application Development Facil II V2	IMSADF	5665-348	54890		2750	41160			200	320		.GH20-6591	IMS	25K
Information Development / VSE 1.1		5666-323	1800		100	1620		90	17	27		.GC33-6216	CSP+GDDM	15K
Information System Model & Architecture	ISMOD	5785-FBA	14300		650							.G320-9235	MVS,VM	15H
+Personal Decision Series - Plans Edition		6466-986	165									.GH30-9012	3.5" drive	05G
+Personal Decision Series - Plans+ Editn		6466-987	335									.GH30-9012	3.5" drive	05G
+Personal Decision Series - Reports+ Edit		6466-984	165									.GH30-9012	3.5" drive	05G
Problem Statement Language and Analyzer	PSL/PSA	5796-DBX	49500									.G320-2719	VM,MVS	15H
QBE to ADRS II Bridge Feature		5796-PLN/01	1190		67							.G320-6097	4696,4687	11E
R-BASE (R) SERIES 4000		6871-479	495									.GB30-2037	PC,XT,3270-PC,AT	05Y
System A - An Application Analyzer	APAX	5785-GCC	16940		770							.G320-9233	MVS,VM	15H
The Information Facility	TIF	5665-339		4280	1070								MVS,XA+VTAM+GDDM	25H

<u>Program Title</u>	<u>Short Name</u>	<u>Number</u>	<u>QTC</u>	<u>ILC</u>	<u>MLC</u>	<u>DSO</u>	<u>PSI</u>	<u>DSM</u>	<u>NLP</u>	<u>MML</u>	<u>Me</u>	<u>MoreInfo</u>	<u>Environment</u>	<u>TPLS</u>
The Information Facility	TIF	5798-DLK	20000	4280	1070	18000						GG26-6000	VM	2SA
The Information Facility XT/370	TIF	5798-DLK/01	2400		53								3038,3039	0SC

Program Title	Short Name	Number	OTC	ILC	MLC	DSO	DSI	DSM	MLP	MHL	Mo	MoreInfo	Environment	PL's
ACP Programming Language/Transaction 1.1		5796-PTN		5000	1435							24.G320-9148	MVS,VM+ACP/TPF	15H
-APL/DI File Create Using PL/I		5796-PKP	1020		93							12.G320-6066	5796-PJ2,-PKA,-PKB	15H
-Application Enabling Facility	AEF	5798-DBF	2790		127							.GB21-2551	VM/CMS	15C
Application Prototype Environment		5668-896	10000	1290	494	7500	963	369				.GH19-6391	VM,MVS+VSAPL or APL2	15E
-Application Prototype Environment		5785-RAB	3960									.GB21-3078	Replaced by 5668-896	15X
*Application System Release 4	AS	5767-001	60000	30000	2000							GE45-5000	MVS,VM+GDDM	115E
Batch Terminal Simulator	BTS	5668-948	9662	1030	394	7245	773	295	28	46		.GH20-5522	IMS/VS & TSO	15K
C (programming language compiler)		6871-466	350									.GB30-2037	PC,XT,3270-PC	05Y
CICS/VS Online Test Debug II	OLTD II	5796-AHJ	2625		112							.G320-5710	DOS/VS,OS/VS	15E
Customer Information System	CIS ADS	5712-AAA	24860		2260							12.GE20-0441	OS/VS	05E
Customer Information System Design 5vc	CIS ADS	5712-AAA/01	4385		399							12.GE20-0441	9096	05E
Data Base Design Aid Version 2	DBDA	5740-XY8	8620		431							.GH20-1626	OS/VS	11C
-Data Base Design Aid Version 2	DBDA	5746-XXQ	6460		323							.GH20-1626	DOS/VS	11C
-Data Base Techniques		5798-NKQ	755		151							06.GB30-1170	System/34	15H
Data Dictionary - DB/DC		5740-XXF			1110			832	115	184		GH20-9104	IMS/VS,CICS/OS/VS	25K
Data Dictionary - DB/DC		5746-XXC			491			367	91	146		GH20-9193	DOS/VS,DL/I,CICS/VS	25K
-Data Dictionary Language Preprocessor		5798-DEQ	660		60							12.GB21-2758	OS/VS	15H
-Data Dictionary Language Preprocessor		5798-DHG	808									.GB21-2902	DOS/VSE,DL/I	15X
-Data Dictionary Utilities		5798-DHQ	715									.GB21-2920	DOS/VSE,DL/I	15X
Data Dictionary Utilities Enhanced		5798-DER/01	960									.GB21-2746	4601	15X
DB Prototype II		5796-PJK	4870		238							.G320-5754	IMS/VS VIR2	15E
DCF Foreground - CMS TSO ATMS III	SCRIPT/VS	5748-XX9/01		180	60							GH20-9158	6043,2107	15E
Display Management System / CMS	DMS/CMS	5748-XXB			40			27	9	14		GC24-5197	VM/SP	15K
Distribution Construction Information	DCIS ADS	5712-AB8	60500		5500							12.GE20-0613	DOS/OS/IMS/CICS/VS	05C
EDX High-Level Language Transaction		5798-RJF	660									.GB30-1896	Series/1	15X
+Expert System Consultation Environment		5798-DXA	25000		1250							.G325-0040	MVS	25H
Expert System Consultation Environment	ESCE	5798-RHP	25000		1250							.G320-0828	VM	25H
+Expert System Development Environment		5798-DXB	35000		1750							.G325-0040	MVS Consultation env	25H
Expert System Development Environment	ESDE	5798-RHQ	35000		1750							.G320-0828	ESCE	25H
Format Design Aid		5798-RCR	660									.GB30-1548	5280 Data System	15H
-IMS Application Productivity Package	APP	5785-C20	3410									.GB21-3027	MVS/TSO,VM/CMS	15X
Info Center/1		5668-897	22000		1390	18000		1040				.GH20-0398	VM,MVS	15E
Information Development / VSE 1.1		5666-323	1800		100	1620		90	17	27		GC33-6216	CSP+GDDM	15K
-Information Display Program	IDP	5798-DMN	2200									.GB21-3062	MVS,VM+3270	15X
INTELLECT tm		5796-PMF	57000		3050							.G320-9161	VM+PL/I	25H
Interactive Computing & Control Facility	ICCF 2.1	5666-302	5595		214	5035		192	12	19		GX33-9011	VSE/AF+CICS	15K
Interactive Computing & Control Facility	ICCF	5746-TS1			161			144	28	45		GC33-6066	DOS/VSE+VTAM,BTAM-ES	15K
Interactive Executive for System/370	IX/370	5667-126	10000									GC33-6207	VM+Series/1	T25K
Interactive Instructional Authoring	IIAS	5668-011	16170		529							.GH20-0008	VM,IMS,CICS+TCAMVTAM	2EB
Interactive Productivity Facility 5.3	IPF	5748-MS1			50			36	6	10		GH20-5304	5664-167,5748-SA1	15K
-Interactive Query & Report Processor	IQRP	5796-PDG	32890		1495							24.G320-1544	OS/VS1,V52	15H
Interactive System Productivity Facility	ISPF 1.1	5668-960			960	96		720	70	15	24	.GC34-2078	CICS/VSE+ICCF	15K
Interactive System Productivity Facility 2.2	ISPF	5664-282			575	189		431	141	9	14	.GC34-2181	VM	15K
ISPF / Program Development Facility	ISPF/PDF	5664-172			1235	206		925	128	19	31	.GC34-2078	VM/CMS	15K
ISPF / Program Development Facility	ISPF/PDF	5665-268			1350	352		1015	264	30	48	.GC34-2078	MVS/TSO,MVS/XA	15K
ISPF Program Development Facility 2.2	ISPF/PDF	5665-317			4025	575		3015	431	14	22	.GC34-2136	ISPF	15K
ISPF Program Development Facility 1.1	ISPF/PDF	5666-281			960	150		720	111	15	24	.GC34-2078	VSE+ICCF	15K
ISPF Program Development Facility 2.2	ISPF/PDF	5664-285	10450		3780	540	9405	2835	404	10	16	.GH34-2181	VM	15K
+ISPF/PC II Development Facility	EZ-VU II	6317-026	495									.G520-6006	Runtime (6317025)	05G
+ISPF/PC II Development Subscriber Update	EZ-VU II	6265-484	30									.G520-6006	6317026	05G

<u>Program Title</u>	<u>Short Name</u>	<u>Number</u>	<u>OTC</u>	<u>ILC</u>	<u>MLC</u>	<u>DSO</u>	<u>DSI</u>	<u>DSH</u>	<u>MLP</u>	<u>MML</u>	<u>Mo</u>	<u>MoreInfo</u>	<u>Environment</u>	<u>TPLS</u>
+ISPF/PC II Devt Nonsubscriber Updates	EZ-VU II	6265-685	55									6520-6006	6317026	05G
+ISPF/PC II Runtime Facility	EZ-VU II	6317-025	59									.6520-6006	All except PCjr	05G
+ISPF/PC II Runtime Nonsubscrbr Updates	EZ-VU II	6265-487	55									6520-6006	6317025	05G
+ISPF/PC II Runtime Subscriber Updates	EZ-VU II	6265-486	30									6520-6006	6317025	05G
ISPF/PDF for XT/370		5664-172/01	990										3001,3000	05C
ISPF/PDF PC Editor	EZ-VU	6466-974	150										EZ-VU Runtime	05G
-Local Display Terminal Simulator		5798-DMQ	3300									.GB21-3066	D05/VSE	15X
-Managing Appl Development - Plan & Track	MADP/PATS	5798-DHA	1055									.GB21-2887	05/V5,VSE	15X
-Mult Index Support - Disk Files		5798-NQL			69							06.GB30-1168	System/34	15H
-Network Interface Module		5798-DGT	539		49							12.GB21-2875	05/V5,ACF/VTAM	15H
-Network Interface Module		5798-DHR	660									.GB21-2922	D05/VSE,VTAM	15X
OXYCALC (R)		5796-PWG	8000									.G320-9167	VM,MVS+GDDM	15X
+Personal Decision Series - Reports+ Trng		6410-948	95										Reports+	05G
Planning Control & Decision Evaluation	PLANCODE/I	5740-XX8	21140		961							.GH19-1103	CICS/IMS VM TSO	25B
Planning Control & Decision Evaluation	PLANCODE/S	5740-XX9	17310		787							.GH19-1103	05/V5	21B
Planning Control & Decision Evaluation	PLANCODE	5746-XXA	17310		787							.GH19-1103	D05/V5	21B
Planning Control & Decision Evaluation	PLANCODE/I	5746-XX9	21140		961							.GH19-1103	CICS/D05/V5	25B
Program Customizer / 3600 4700	PC/3600	5740-F11			2380							GH20-1587	05/V5	11B
Programmer Productivity - Debug		5798-RLA	495									.GB30-1903	5280 Data System	15X
Programmer's Productivity Aid & T/E		5798-RHC	605									.GB30-1702	5280 Data System	15X
Project Scheduler 5000		6871-485	285									.GB30-2037	PC,XT	05Y
Query Management Facility	QMF	5666-292		4280	642		3850	577	89	142		GH24-5033	SQL+5746-XX3+GDDM	25K
Query Management Facility Release 2	QMF	5668-972		6420	1070		4812	802	58	93		GC26-4071	VM,MVS+GDDM+DB2,SQL	25K
*Research Queueing Package	RESQ	7798-RSQ	7800										VM, MVS	05E
Screen Definition Facility	SDF	5664-178		1685	294		1265	200	44	70		.GH19-6087	VM	15K
Screen Definition Facility	SDF	5740-XYF	7675		349	5760		262	50	80		.GH19-6087	05/V5,MVS/XA or CICS	15K
Screen Definition Facility	SDF	5746-XXT	5345		243	3980		165	44	70		.GH19-6087	165 or CICS/D05/V5	15K
Screen Definition Facility CICS/V5	SDF	5666-288		1305	249			979	187	47	75	.GH19-6096	SSX/VSE	15K
Source Archive		5798-RFD	378									.GB30-1630	System/38	15X
SPHOL with Auditing and Archiving		5798-CFT/01	1575		70							.GB21-1696	6005,6050	15E
SQL / Data System - Relational Structure	SQL/DS 3.5	5748-XXJ	464					347	144	230		GH24-5012	D05/VSE,SSX/VSE,VM	25K
Structured Programming Facility	SPF	5740-XT8	18380		630							GH20-1974	05/V52	11X
-Structured Programming Macros		5798-CLF	660		60							12.GB21-1957	D05/V5, OS/V5,VM	15H
Teleprocessing Network Simulator 2.3	TPNS	5662-262			1875							GH20-2487	MVS,XA,VM	11E
-UCSD p-System (R) Development System		5608-MS2	950									6552-0371	Displaywriter	15X
Virtual CPU - Series/1		5798-DMP	3740									.GB21-3064	VM/CMS	15X
Virtual Machine Facility/370 for S/1		5798-RDR	8710		792							12.GB30-1590	Series/1	15H
Virtual Machine/System Product Rel 4	VM/SP	5664-167			443			332	69	110		GC20-1838	S/370,4300,303x,308x	25K
Virtual Spooled Reader Display		5796-AYK	1055									.G320-6338	VM/CMS	15H
-3101 Full Screen Control Program Support		5798-RFF	310									.GB30-1639	Series/1	15H
-3650 Application Development Debug		5798-DGY	847		77							12.GB21-2883	05/V5,D05/VSE	15H



Program Title	Short Name	Number	OTC	ILC	MLC	DSO	DSI	DSH	MLP	MML	Mo	MoreInfo	Environment	TPLS
Access Control Logging and Reporting	VSE/ACLR	5746-XE7	2360		63	2125		57	24	38		GH12-5130	DOS/VSE,SSX/VSE	15K
Alpha Search Inquiry System	ASIS	5736-N14	6375		303							.GH20-1188	CICS/OS/DOS/VS,CMS	15C
Change Management Tracking	CMT	5740-DC1	12180		554							.GH19-6028	OS/VS	15C
CICS/VS Online Dataset Recovery Facility		5798-DHL	737									.GB21-2911	CICS/DOS(non-DL/I)	15X
CICS/VSE Security Manager		5798-DKT	990									.GB21-3018	CICS/DOS/VSE	15X
+Classified Data Erasure Program	C.D.E.P.	5798-DXN	5000									GC26-4269	VM,MVS	15S
Cryptographic Facility		5714-CR1	5000		250							SC21-8026	System/38	15A
Cryptographic Information Protection	IPS	5796-PPK		360	132						24	.G320-6644	VM/CMS	15X
Cryptographic Programmed Facility		5740-XY5	12200		436	9150		327	33	53		GC28-0942	MVS	15K
Cryptographic Unit Support		5740-XY6	11000		390	8250		292	33	53		GC28-1015	OS/VS,MVS/XA	15K
Data Base Extracting and Restructuring	EXPRESS	5796-PLH	16780		655							.G320-6160	IMS/VS PL/I	15X
Data Encoder		6024-149	109									G520-1107	PC,XT,PCjr,PPC,AT	05Z
-Data set Migration and Planning Aid		5798-DCK	1745		159							12.GB21-2614	OS/VS,MVS/XA	15H
Directory Maintenance	DIRMAINT	5748-XE4			112			84	30	48		GC20-1836	VM/SP/CMS	15K
-DL/I Map		5796-PCH	902		82							12.G320-8159	DL/I DOS/VS	05H
-ICCF Automated Library Manager		5798-DJR	363									.GB21-2956	DOS/VSE	15X
IMS/VS Data Base Product		5740-XX2/01			1800			1350	192	307		GH20-9069	4538	05K
IMS/VS Data Base Surveyor Utility Feat		5740-XX2/03			120			90	15	21		GH20-9069	6199,6569	05K
-IMS/VS Test Utilities		5796-PDA	1210		110							12.G320-1540	OS/VS1/VS2,IMS/VS	15H
Interactive File Sharing	IFS	5748-XXC			52			39	16	26		GC24-5195	VM/CMS	15K
JES2 Information Retrieval System - CMS		5796-AYD	3960		300							.G320-6334	VM/CMS	15H
Message Requeuer	MQR	5796-ATP	4950		154							.G320-6071	IMS/VS V1	11E
RACF Codes Update System		5796-PLK	1085		99							12.G320-6093	MVS and RACF	15H
RACF/VM	RPQ P88028	5767-002		750	250			564	188	32	51	SC34-2296	VM	25K
Resource Access Control Facility 1.7	RACF	5740-XXH			841			630	43	69		GC28-0722	MVS	25K

Program Title	Short Name	Number	OTC	ILC	MLC	DSO	DSI	DSM	HLP	MHL	Mo	MoreInfo	Environment	TPLS
-Application Prototype Environment		5785-RAB	3960										.GB21-3078 Replaced by 5668-896	15X
-Automated Event Control		5798-DBQ	660		60							12.	.GB21-2561 CICS/VS	15H
Batch to SSX/VSE Conversion Aid		5785-KAJ	407										.G320-9191 SSX/VSE	15X
CICS Application Development Archit V2		5796-PWJ	12100										.G320-9168 CICS	15H
-CICS Performance & Capacity Planning		5798-DKF	1085										.GB21-2991 5798-CFP	15X
CICS Performance Analysis Reporting	CICSPARS	5798-DAB	1785		94								.GB21-2494 OS/VS, DOS/VSE	15E
CICS Performance Analyzer II	PA II	5798-CFP	2100		83								.GB21-1862 CICS/VS	15E
CICS/CMS PC/370		5668-795/01	900		50									25E
CICS/DOS/VS Faster Language Facility		5746-XX3/01			120								GH20-1502 6019	25C
-CICS/IMS Data Collector Capacity Plan	CPX	5798-DML	1815										.GB21-3057 OS/VS, CICS/VS	15X
CICS/OS/VS Faster Language Facility Feat		5740-XX1/01		343	128								GH20-1502 6022,6023	05C
CICS/VS Command Level Programming Course		5798-DCX	1415										.GB21-2628 IIS, IIPS	1EX
CICS/VS Conversion Utility		5798-DPL	7700		350								.3200-442 CICS COBOL or PL/I	15H
-CICS/VS Dump Reading Program		5798-CJX	1210		110							12.	.GB21-1874 OS/VS	15H
CICS/VS Formatted Dump Online II		5798-DJX	2640										.GB21-2963 CICS/VS	15X
CICS/VS Online Dataset Recovery Facility		5798-DHL	737										.GB21-2911 CICS/DOS(non-DL/I)	15X
CICS/VS Online Test Debug II	OLTD II	5796-AHJ	2625		112								.G320-5710 DOS/VS, OS/VS	15E
-CICS/VS Operations Support Package		5798-DBJ	484		44							12.	.GB21-2554 DOS/VSE, DOS, VS, OS/VS	15H
CICS/VS Trace Transform Version 2	RPQ P88027	5799-HXD	nc										CICS/VS	M05C
CICS/VSE Security Manager		5798-DKT	990										.GB21-3018 CICS/DOS/VSE	15X
-CICS/3270 Simulator		5798-AXC	781		71								.GB21-1002 CICS/OS/DOS/VS	01H
+CICSPARS/MVS		5665-355			900			675					CICS/MVS	15E
+COBOL to COBOL II & CICS Com Lev Con Aid		5785-ABJ	7000		350								.G320-9498 MVS, XA+VS COBOL II	15H
Communication Oriented Message System	CORMES	5746-XXM	11520		524								.GH12-5127 DOS/VS	25B
Cross System Product / Applic Devt Ver 1	CSP/AD	5668-944	5565	960	227	5005	720	172	34	54			.GH20-0940 CSP/Applic Execution	25K
Cross System Product / Applic Execution	CSP/AE	5668-945	4200	720	172	3780	540	128	22	35			.GH20-0940 CICS/DOS/VS, SSX, VM	25K
CSP Development - CICS/OS/VS T50		5668-944/01	4855		227	4370		172	34	54			.4519,4672,6519,6566	25K
CSP Execution - CICS/OS/VS T50		5668-945/01	2490		117	2245		86	22	35			.4532,4676,6532,6568	25K
CSP Execution - VM/CMS		5668-945/02		700	120			540	90	22	35		.4537,2121,9537,2321	25K
Customer Information Control System	CICS	5734-XX7	9876		880								GH20-1028 OS	25C
Customer Information Control System	CICS Entry	5736-XX6	2820		235								GH20-1028 DOS	25C
Customer Information Control System	CICS Std	5736-XX7	7056		588								GH20-1028 DOS	25C
Customer Information Control System	CICS/VS	5746-XX3			686								GC33-0155 DOS/VSE	25K
Customer Information Control System 1.7	CICS	5740-XX1		5730	1910			42901430	256	280			GC33-0155 MVS, XA	25K
+Customer Information Control System/CMS	CICS/CMS	5668-795	15000		835	13500		750					GC33-0284 VM, VM/PC	25M
Data Dictionary Report and File Generatr	RFQ	5740-XXF/01	15000		535	11250		401	11	17			6576	15K
Development Management System / CICS	DMS/CICS	5740-XC5	8380		533	6285			54	88			.GH20-0125 CICS/VS/OS	15K
Development Management System / CICS	DMS/CICS	5746-XC4	4730		330	3545		164	54	88			.GH20-2195 CICS/VS/DOS	15K
-DL/I - CICS/VS Test Prog. State Indust.		5796-ARN	1020		93							12.	.G320-6053 DOS/VS	15H
DMS/CICS Application Generation Feature		5740-XCS/01	11410		533	8560		347	54	88			.GH20-2195 4558,4560,6513,6577	15K
DMS/CICS Application Generation Feature		5746-XC4/01	7040		330	5280		246	51	82			.GH20-2195 6082,4538,6541,6501	15K
Entry Level Interactive Application SSX	ELIAS	5666-291		1165	224			876	167	14	22		.GH19-6269 SSX/VSE	15K
Entry Level Interactive Application Syst	ELIAS-I	5746-XXV	5190		236	3915		162	13	21			.GH19-6218 DOS/VSE, CICS/VS, DL/I	15K
Entry Level Interactive Application Syst	ELIAS-I/VM	5748-XXK	8005		364	5960		271	28	46			.GH19-6157 VM/CMS, CICS/VS, DL/I	15K
OCL Online Procedure & Menu Convrns		5785-DFD	709										.G320-9191 Sstem/34+CICS/SSX	15X
Online to CICS-RPGII Conversion Aid		5785-DFB	1015										.G320-9191 SSX/VSE	15X
Print Spooling System for CICS/VS		5785-DCW	3365		255								.GB21-2970 DOS/VSE, MVS, CICS/VS	15X
+Query.DL/I for CICS/MVS		5785-ECZ	20000										.G320-0839 IMS DB	15H
+Query.DL/I for CICS/VSE		5785-EDA	12500										.G320-0839 DL/I	15H
Screen Definition Facility	SDF	5740-XYF	7675		349	5760		262	50	80			.GH19-6087 OS/VS, MVS/XA or CICS	15K

<u>Program Title</u>	<u>Short Name</u>	<u>Number</u>	<u>OTC</u>	<u>ILC</u>	<u>HLC</u>	<u>DSO</u>	<u>PSI</u>	<u>DSH</u>	<u>MLP</u>	<u>MHL</u>	<u>Me</u>	<u>MoreInfo</u>	<u>Environment</u>	<u>TPLS</u>
Screen Definition Facility	SDF	5746-XXT	5345		243	3980		165	44	70		.GH19-6087	VSE or CICS/DOS/VS	15K
Screen Definition Facility CICS/VS	SDF	5666-288		1305	249		979	187	47	75		.GH19-6096	SSX/VSE	15K
Source Program Maintenance Online	SPMOL	5798-CFT	5355		226							.GB21-1696	CICS/VS	15E
SPMOL with Auditing and Archiving		5798-CFT/01	1575		70							.GB21-1696	6005,6050	15E
<u>VSAM File Definition Aid</u>		<u>5798-DPG</u>	<u>2200</u>									<u>.G320-9170</u>	<u>MVS,VSE</u>	<u>15H</u>
VSE/SP CICS/DOS/VS Feature		5799-BNB/07	12710		596	11440		537					4520,4931,4964,4965	15K
VSE/SP CICS/DOS/VS Feature		5799-BNC/07	14620		686	13160		617					4942,4988,4989,4578	15K
3270 Bisync Pass-Through		5746-AM5	4755		217							.GH20-2403	DOS/VSE+CICS/VS	15X
3640 CICS/VS Extensions - 4331 Loops	RPQ-P90000	5799-BEH			73			55	7	11			DOS/VSE,OS/VS1	15K

Program Title	Short Name	Number	OTC	ILC	MLC	DSO	DSI	DSH	MLP	MML	Mo	MoreInfo	Environment	TPLS
Account Network Management Program	ANMP	5798-DAT	5880		267							.GB21-2521	CICS/DOS/VS	11X
+ACF / Network Control Program V4 Subset	NCP	5668-754			275			206	48	77		GC30-3350	VSE, VM, MVS, XA+VTAM	25K
ACF / System Support Programs Version 2	ACF/SSP	5735-XXA		508	92		381	69	24	38		GC27-0657	MVS, XA+NCP-3	25K
ACF / VTAM Version 3.1.1		5664-280			1175		2640	880	247	395		GC30-3246	VM	25K
-ACF Network Generation Aid		5798-DFP	1045									GB21-2809	MVS, DOS/VSE	15X
ACF Telecommunications Control System	TCS-ACF	5740-XY3	2640		235							GH20-2192	OS/VS	15C
ACF-TCS Networking Feature		5740-XY3/01	3960		353							GH20-2156	6090	25C
-ACF/NCP System Support Program	ACF/SSP	5735-XX3		399	72		299	54	19	30		GC30-3058	DOS/VSE, OS/VS	25X
ACF/NCP Version 4.2	NCP	5668-854		2085	695		1875	625	148	237		GC23-0108	3725/20+VTAM/TCAM	25K
-ACF/Network Control Program Version 1	ACF/NCP	5735-XX1		1305	234		979	174	35	56		GC30-9533	DOS/VS, DOS/VSE, OS/VS	25X
ACF/Network Control Program Version 2	ACF/NCP	5735-XX9		1305	261		979	196	96	154		GC30-3071	OS/VS, DOS/VSE+3725	25K
ACF/Network Control Program Version 3	ACF/NCP	5667-124		2550	425		2310	385	148	237		GC27-0657	3705/25+MVS, XA	25K
ACF/System Support Programs Version 3.2	SSP	5664-289		960	320		720	240	44	70		GC23-0108	3705/20/25+VM	25K
ACF/System Support Programs Version 3.2	SSP	5665-338		1605	535		1200	400	71	114		GC23-0108	3705/20/25+MVS, XA	25K
+ACF/System Support Programs Version 3.2	SSP	5666-322		321	107		240	80	27	43		GC23-0108	3705/20/25+VSE	25K
ACF/TCAM - Multisystems Networking	MSNF/TCAM	5735-RC1/01	14640		1305	10980		979	31	50	12	GC30-9500	6000, 6517	25C
ACF/TCAM - Multisystems Networking	MSNF/TCAM	5735-RC3/01		4070	1465		30531099	113	181			GC30-3057	6003, 2111, 6503, 2311	25X
ACF/TCAM - Version 1		5735-RC1	3948		352	2952		263	12	19	12	GC30-2050	OS/VS/MVS	25X
ACF/TCAM - Version 2		5735-RC3		2420	874		1815	655	91	145		GC30-3057	OS/VS, MVS/XA	25X
ACF/TCAM - Version 3	TCAM	5665-314		8025	2675		60152005	330	528			GC30-3235	ACF/VTAM V2 or 3	25K
ACF/VTAM	VTAM	5746-RC3			197			177	58	93		GC27-0462	DOS/VSE/AF	25K
ACF/VTAM - Multisystem Networking Feat	MSNF	5746-RC3/01			374			337	174	278		GC27-0462	6059, 6500	25K
ACF/VTAM - Encrypt / Decrypt Feature		5735-RC2/02		770	269		577	202	8	13		GC38-0285	6010, 2109, 6512, 2309	15K
ACF/VTAM - Multisystems Networking	MSNF/VTAM	5735-RC2/01		3080	1100		2310	825	163	260		GC38-0284	6009, 2108, 6509, 2308	25K
ACF/VTAM - Version 2	VTAM	5662-280		1970	657		1478	493	94	150		GC27-0608	OS/VS1	25K
ACF/VTAM - Version 2	VTAM	5665-280		3745	1245		2809	934	225	360		GC27-0657	MVS, MVS/XA	25K
ACF/VTAM - Version 2	VTAM V2	5666-280		849	284		765	256	59	94		GC27-0608	DOS/VSE, VSE/AF	25K
-ACF/VTAM Buffer Selection Aid		5798-DHF	742									.GB21-2900	MVS, DOS/VSE	15X
ACF/VTAM Ver 2 - Encrypt/Decrypt Feature	VTAM	5662-280/01			240			180	7	11		GC27-0608	6000, 6500	15K
ACF/VTAM Ver 2 - Encrypt/Decrypt Feature	VTAM	5665-280/01			259			194	8	13		GC27-0608	6000, 6500	15K
ACF/VTAM Version 1		5735-RC2		1320	457		990	343	55	88		GC27-0462	OS/VS1, MVS	25K
+ACF/VTAM Version 3	VTAM	5666-313		963	321		864	288	82	131		GC23-0108	VSE	25K
ACF/VTAM Version 3.1.1	VTAM	5665-289		6255	2085		46951565	302	483			GC23-0108	XA	25K
-ACF/VTAM Trace Interpretation		5798-DKH	495									.GB21-3023	DOS/VSE	15X
ACP / ACF Transactions	ACP/ACF	5748-T11/01			3060							GH20-2140	6061	25E
ACP Advanced Communication Function	TPF2/ACF2	5748-T12/01		8025	3075							GH20-6200	2111, 6081	25E
ACP TPF2 / High Performance Option	TPF2/HPO	5748-T12/02		21000	7000							GH20-6200	2112, 6080	25E
ACP Transaction Processing	RPQ-P09026	5799-HQP	nc									GH20-2140	5748-T11	N05E
ACP Transaction Processing Facil 2.2	TPF2/ACF2	5748-T12			3210012300							GH20-6200		25E
ACT/VTAM Version 3.1.1	VTAM	5665-313		5130	1710		38401280	275	440			GC23-0108	MVS	25K
Advanced Data Communication for Stores	ADCS	5735-XR2	5455		248							.GH20-2188	DOS/VSE, OS/VS	15E
Advanced NetWare tm / C		6404-010	1595									GB30-2037	PC, XT, AT	05Y
Advanced NetWare tm / PCN		6404-009	1595									GB30-2037	PC, XT, AT	05Y
+Advanced NetWare tm/86 2.0a		6476-230	1595									GB30-2037	PC, XT, AT, 3270-PC, jr	05Y
+Advanced Program-to-Program Communicatn	APPC	6467-038	150									PC, PPC, XT, AT+adapter		05H
+Advanced Program-to-Program Communicatns		5732-025	8000									GX34-1000	5732-028+5732-010	15M
Airline Control Program ACP	RPQ-P09011	5799-HKG	nc									GE20-0423	V51-V52 (Off Line)	N05X
+Answer/DB (R) for PC Products		5798-DWG	35000									GH20-9244	CICS/OS or IBM/DC	15H
+Answer/DB (R) for PC Products		5798-DWG/01	20000									GH20-9244	CICS/VSE	15H
+Asynchronous Server for Token & PC Netwk		1642-003	495										Token-Ring NETBIOS	05Z

Program Title	Short Name	Number	OTC	ILC	MLC	DSO	DSI	DSH	MHP	MML	Mc	MoreInfo	Environment	TPLS
+Attachment/370+		6317-047	300									.GH30-0760	PC,XT,AT.3270-PC/AT	05G
+Attachment/370+ Upgrade from 6316971		6467-046	101									.GH30-0760	Attach 370 Edition	05G
Augmented Phone Services		6280-740	149									.G520-3917	PC,XT,AT+VoiceComPdt	05Z
Automated Response Line Call Handlg		5798-RRG	5500		250							.G320-9172	System/34	15X
Basic Telecommunications Access Method	BTAM-ES	5746-RC5			44				40	7	11	.GC38-0292	DOS/VSE	15K
Batch SNA Communications		6428-147	385									.G320-9186	PC	05H
BSC MULTIPOINT (3770/3780)		5799-BFJ	nc											NOSX
BTAM SCP for BTAM-ES		5747-CG1	nc										DOS/VSE	NOSJ
BTAM/System Product	BTAM/SP	5665-279	5950			4463				13	21	GC27-0599	MVS,MVS/XA	25K
+Bus_Mat_Series_Local_Area_Network_Access	LANAE	6410-965	245									.G580-2002	PC_Network	05G
CICS to 3270-PC File Transfer Program		5798-DQH	660									.G320-0369	CICS+3270-PC CP	15H
Cluster Program		6024-107	99									G520-3917	PC,PCjr,PPC,XT	05Z
Cluster Program - Five Pack		6024-182	439									G520-3917	PC,PCjr,PPC,XT	05Z
Communication Oriented Message System	CORMES	5668-007	11505		524							.GH12-5127	OS/V5,MVS/XA+CICS/V5	15E
Communication Oriented Message System	CORMES	5746-XXM	11520		524							.GH12-5127	DOS/V5	25E
+Communications & Systems Management		5732-026	5000									0X34-1000	5732-027+5732-010	15Y
Cross Domain Network Data Transfer		5798-DAE	1320									.GB21-2498	Replaced by 5668-932	15H
Customer Information Control System 1.7	CICS	5740-XX1				5730	1910					GC33-0155	MVS,XA	25K
Data Communication Service Release 2	CAD/CAM	5668-865	20000		1605	535							MVS,XA,VM	15F
+dBASE tm / Answer		6205-238	550									GB20-2037	Answer/DB 5798-DWG	05H
Direct Multinetwork Link to S.W.I.F.T.	DMNL	5666-269			3500	820						.GH12-5142	CICS/DOS/V5+5668-926	15K
Direct Multinetwork Link to S.W.I.F.T.	DMNL	5668-964			6525	1595						.GH12-5142	IMS/V5+5668-926	15F
Direct Multinetwork Link to S.W.I.F.T.	DMNL	5668-965			4280	1280						.GH12-5142	CICS/OS/V5+5668-926	15X
Direct S.W.I.F.T. Network Link	DSNL	5668-926			2000	299						.GH12-5142	CICS/V5,IMS/V5+BTAM	15X
Direct S.W.I.F.T. Terminal 500 Link		5668-857	24200		1100							GH12-5149	DMNL+ST500+3705/25	15J
DisplayComm Binary Synchronous Communica		6024-187	409									G520-3917	PC,XT,PPC	05Z
DisplayComm Bisynch Communications V1.1		6024-210	409									G520-1107	PC,AT+DOS 2.1 or 3.0	05Z
Distributed Intelligence System/7 - 370		5744-BK1	nc									GC34-0057	OS/V5	NOSIC
Distributed Systems Executive 3.1	DSX	5668-915					2700	1035				2025	776 88 140	
DPPX Load Evaluation Simulator		5785-EDB	5280		240							.GC23-0108	MVS+VTAM/TCAM	15C
EDX Communications Facility Version 2.1		5719-CF2	2500		178							.G320-9210	COBOL	15J
EDX Remote Manager 1.2		5719-RM1	2000		133							L230-103	5719-HD2	15Y
EDX TMMS/ROLM CBX 9000 Interface		5799-THK	6420									GL23-0138	DSX+HCF+NCCF+NPDA	15M
EDX to Allen-Bradley (R) Controllers		5719-THC	5000										TMMS	15H
EDX to General Electric Series 6 tm Supt		5719-THD	5000									GC34-0099	5719-CF1	15H
EDX to Gould Modicon MICRO tm Controllrs		5719-THB	5000									GC34-0099	5719-CF1	15H
EDX to Texas Instruments (R) Controllers	STI,TI520	5719-THA	5000									GC34-0099	5719-CF1	15H
EDX X.25 / HDLC Communications Support	X.25/HDLC	5719-HD2	2750			162						.GC09-1026	DSX+HCF+NCCF+NPDA	15X
EDX Yale ASCII Communication Sys II		5796-RKJ			407	137						24,GB30-1901	Series/1	15X
EP/V5 - 3704 / 3705 Emulator Support		5747-AG1	nc									GC30-3008	DOS/V5,DOS/VSE	NOSJ
EP/V5 Feature		5747-CH2	nc										DOS/VSE	NOSH
-Event Driven Executive	EDX	5796-PGH			825							12.G320-5677	OS/MVT,MVS	15H
-File Cabinet Option / VTAM	FCO/VTAM	5798-DCG	15960		732							.GB21-2604	MVS/SP,MVS/XA	15H
+File Transfer Program Version 2.2		5664-315	11250		450	8437						.GH12-5141	VM+VTAM	25H
Host Data Base View	HDBV	6466-998	395									.G520-1107	MVS/VM+PC,XT,AT	05Z
IMS Data Base Prod (Includes IRLM)	IMS/V5	5665-332/01			2400			1800	7001120				2116,4558,9558	25K
IMS Logging Feature	IMS/V5	5665-332/02			400			300	60 96				5196,6008,6508	25K
-Information Display Program	IDP	5798-DMN	2200									.GB21-3062	MVS,VM+3270	15X
Intelligent Workstation Support 3101 Emu	RPQ-Pxxxxx	5799-TGC	150									GC34-0545	PC/XT to S/1 to S/370	05X
+Interactive Executive 3270-PLUS	IX/370	6317-060	995									.G320-0837	AT+Xenix+SDLC adaptr	05H

Program Title	Short Name	Number	OTC	ILC	MLC	DSO	DSI	DSM	MLP	MHL	Mo	MoreInfo	Environment	TPLS
Line Disconnect		5799-BFK	nc											N0SX
Link Control FDx IATA 3704 SEP	RPQ-P85027	5799-AHP	12100		550								ACP	15B
Link Support PRPQ		5799-BEQ	nc											N0SX
Local Area Network PrintManager		6317-042	800										G520-5102 PC Network, OMNINET	05H
Local Display Terminal Simulator		5798-DMQ	3300										.GB21-3066 DOS/VSE	15X
+Lotus tm / Answer		6205-239	550										GB20-2037 Answer/DB 5798-DWG	05H
Message Switching System		5798-RHF	2145										.GB30-1756 System/38	15H
+Multiple Applicatns from a Single Screen	MXXX	5785-EDH	8000		365								G320-9511 VTAM+MVS	15H
MVS/Bulk Data Transfer	MVS/BDT	5665-302		5340	1335		40041001	454	726				GC28-1313 MVS+VTAM	25K
MVS/SP/JES2 1.3.5 and 1.3.6	JES2	5740-XYS/02			2170			1627	240	384			GC28-1025 4525,6143,9525	25K
MVS/SP/JES3 1.3.5	JES3	5740-XYM/02			2380			1784	517	827			GC28-1025 4524,9524	05K
NCCF Terminal Access Facility Feature		5735-X66/01		220	88		165	66	16	26			GC27-0429 6002,2115,6502,2315	25K
+NetView		5664-204			940			705	90	144			GC30-3350 VM+VTAM	25K
+NetView		5665-361			1060			795	124	198			GC30-3350 MVS+VTAM	25K
+NetView		5665-362			1255			941	128	205			GC30-3350 XA+VTAM	25K
Netware tm Bridge		6404-011	395										GB30-2037 PCNetwork+PCCluster	05Y
+NetWare tm Bridge 2.0a		6476-229	395										GB30-2037 PC,XT,AT,3270-PC	05Y
Network Communications Control Facil V1	NCCF	5735-XX6		440	156		330	117	48	77			GC27-0429 MCF/VTAM8E/TCAM/SSX	25K
Network Communications Control Facil V2	NCCF	5664-175		1920	320		1740	290	33	44			GC23-0108 VM+ACF/VTAM3	15K
Network Communications Control Facil V2	NCCF	5668-947		2250	375		2010	335	55	88			GC27-0657 MVS+VTAM,TCAM	15K
Network Communications Control-Facil 2.2	NCCF	5665-316		2730	455		2460	410	66	106			GC23-0108 XA+VTAM/TCAM	15K
+Network Communications Control-Facil 2.2	NCCF	5666-285		1110	185		996	166	22	35			GC23-0108 VSE+VTAM/TCAM	15K
-Network Control Program - SCP	NCP/SSP	5747-CH1	nc										GC30-9531 3704,3705	N0SJ
Network Control Program EP/VS Feature	NCP/SSP	5747-CH1/01	nc										GC30-9531 6004	N0SJ
Network Design and Analysis	NETDA	5664-202	15000		750								VM+APL2 orVSAPL+GDDM	25E
Network Extension Facility	RPQ-P09021	5799-AZP	18580		718								.GH20-5289 ACF/NCP/VS	15X
+Network Extension Facility Version 2		5799-CDX	70000										3725+MVS+VTAM	25M
-Network Interface Module		5798-DGT	539		49						12		.GB21-2875 OS/VS,ACF/VTAM	15H
-Network Interface Module		5798-DHR	660										.GB21-2922 DOS/VSE,VTAM	15X
Network Job Entry for JES2	NJE	5740-XR8			807			605	96	154			GC23-0010 MVS	15K
Network Logical Data Manager 1.3	NLDM	5668-971		1305	207		979	155	24	38			GC23-0108 MVS,VM,VSE+NCCF	15K
Network Management Productivity Facility	NMPF	5798-DPC	800										.G320-9165 MVS+NCCF	15H
Network Monitor for VTAM Applications		5796-PPB	1980		150								.G320-6628 OS/VS ACF/VTAM	15H
Network Performance Analysis & Reports	NETPARS	5798-CZX	1890		77								.GB21-2487 OS/VS,5798CPR	15E
Network Performance Monitor Release 2	NPM	5665-333		3210	615		2410	460	57	91			.GH20-6359 MVS+VTAM	25K
Network Problem Determination Appl Ver 2	NPDA	5668-983		1210	113		907	85	27	43			GC34-2061 5735-XX6	15K
+Network Problem Determination Applic V3	NPDA	5666-295		825	132		618	99	16	26			GC23-0108 NCCF Version 2+VSE	25K
Network Problem Determination Applic V3	NPDA	5668-920		1650	264		1237	198	22	35			GC23-0108 NCCF Version 2+MVS	25K
Network Problem Determination Applic 3.2	NPDA	5665-321		2040	340		1530	255	30	48			GC23-0108 NCCF Version 2+XA	25K
Network Problem Determination Applicatn	NPDA 3.2	5664-190		1350	225		1010	169	20	32			GC23-0108 VM	25K
Network Routing Facility Release 3	NRF	5668-963		3525	1175		2644	881	248	397			GC27-0594 ACF/NCP 4.2	25K
Network Services		7798-NET	nc										Information Network	N0SC
Network Terminal Option Release 4	NTD	5735-XX7		660	206		495	155	12	19			GC38-0297 ACF/NCP 4.2	25K
Non-SNA Interconnection to 3725 Ver 3.4		5668-951		1605	465		1440	419	43	68			GC33-2023 NCP Ver2+VTAM Ver2	25K
NPDA 3600/4700 Threshold Analysis		5665-321/01		1210	176		907	132	19	30				2116
Operator Communications Control Facility	OCCF	5665-288		1050	350		786	262	8	13			GC24-5225 MVS,NCCF,ACF/VTAM	15K
Pass-Through Facility	PVM	5748-RC1	3000		185	2700							GC24-5206 VM/SP,VM/BSEF,VM/SE	15K
PC Bond Release 2		5664-298	2000		135								GH24-5089 VM+VM Bond	25E
-PC LAN Upgrade from PC Network 6024195	LAN	6280-084	65										G227-6002 PC Network	05Z
+PC Local Area Network Program 1.1	LAN	6280-083	125										G227-6002 PC,XT,AT	05Z

Program Title	Short Name	Number	OTC	ILC	MLC	DSO	DSI	DSH	MHP	MHL	Mo	MoreInfo	Environment	TPLS
+PC Network Analysis Program		6489-762	1295										PCNetwork+E2-VU Runt	05Z
+PC Network Remote Control (single copy)		6276-586	25										PC LAN or NETBIOS	05R
+PC Network Remote Control (Six-pack)		6276-562	99										NETBIOS+PC,XT,AT	05R
PC Support/36 Token-Ring Workstatn Feat		5727-HS1/01	1500			1320								11LM
+PC/HOST File Transfer and 3270 Emulation		6476-052	200									0580-0454 6248		05Z
PEP Extended Features for the 3705-II	RPQ-P85032	5799-BAF						254	26	42		0520-6037	MVS,VM,CICS	05Z
Pers DS Extended Support Annual Subscrip		6316-971/01	125									GC30-9540	V51 MVS DOS/VSE VM	25K
Pers DS Extended Support Annual Subscrip		6316-972/01	125										See Program Descriptn.	05G
+Personal Computer Monitor	PECOMON	6467-045	325									.G320-0838	PC+3278,9 Emul adapt	05H
Personal Decision Series - Attachment/VM		5664-290	17600		800							.GH30-9028	VM+ISPF+6316971	15E
Personal Decision Series - Attachment/36		6316-972	165									.GH30-0757	PC,PPC,XT+Data Editn.	05G
Personal Decision Series - Attachmt/MVS		5665-336	22000		1000							.GH30-9028	VITAM+NCP+ISPF+PC,XT	15E
-Personal Decision Series - Attachmt/370		6316-971	219									.GH30-0760	Upgrade to 6467046	05G
+Personal Services/PC Upgrade to 1.2		6476-053	35										6403826	05M
+Personal Services/PC 1.2		6476-054	275										PC,XT,AT,3270-PC+10M	05M
Personal Telephone Manager		6429-190	70									G320-9445	PC,XT,AT,3270-PC/AT	05G
Personal Telephone Mgr/Voice Comm Option		1642-004	70										PC,XT,AT+VoiceCommun	05G
+PhoneMail 1.3		7798-PHM	varies									6620-6193	CBX-II,PBX,Centrex	V05H
+Primary Systems Network Architecture		5732-028	4500									GX34-1000	5732-027	15M
Remote Spooling Communication Subsystem	RSCS/SNA	5796-PXF	3850									.G320-0323	V5E+VM+6670 line dvr	15X
Remote Spooling Communications / SNA	RSCS/SNA	5798-DMJ	4950									.GB21-3050	VM+RSCS	15X
Remote Spooling Communications Subsys V2	RSCS	5664-188	6300		337	5355		287	38	61		GH24-5055	VM	15K
Response Time Estimator (Feature 9231)		6316-968	275									.G320-0334	PC,PCjr,XT,3270-PC	05H
Routing Table Generator	RTG	5668-815	6000		300							.GH20-6787	PL/I+MVS,XA or VM	21E
RPS ADS Additional Languages (per each)		5719-U21/02	1060		70								4000,5000	15H
RPS ADS Version 2 Upgrade from Version 1		5719-U21/01	2675											15H
RPS Audio Distribution System Version 2	ADS	5719-U21	15200	1850	1015							6520-1060	Series/1+PL/I	15H
RPS Communications Manager Version 2		5719-CM2	5550		413								Series/1+5719-AS6	15X
RPS Remote Manager		5719-RM6	2000		133								DSX+HCF+NCCF+NPDA	15X
RPS X.25 / High-Level Data Link Control	X.25/HDLC	5719-HD1	2500		158							GC09-1026	Series/1	15X
+Secondary Systems Network Architecture		5732-029	5500									GX34-1000	5732-027	15M
Smarterm tm 100 (DEC.VT52,VT100,1,2,EDT)		6871-489	149									.GB30-2037	PC,XT,3270-PC	05Y
+SNA Application Monitor	SAMON	5665-345	9000			7650							MVS+VTAM 2 or 3	25E
Subsystem Support Services	SSS	5747-CC6	nc									GC30-3022	DOS/V5,05/V5,SSX	NO5N
+System/36 Local Area Network Communicatn	Token-Ring	5727-LC1	925		75	8143							S/36+AT in a T-R net	15A
+System/36 PC Local Area Network Communic	Token-Ring	5727-LC6	695			521							5364+AT in a TRN	15M
+Systems Network Architecture Interface		5732-027	3000									GX34-1000	System/88	15M
-TCAM Subtask Trace Analysis Report		5798-DGK	539		49							12.GB21-2860	05/V5,ACF/TCAM	15H
Telecommunications Control System	TCS	5734-F31			7215							GH20-4324	05/V5	25B
Telecommunications Control System	TCF-AF	5740-XXD	16500		1470							GH20-1735	05/V5	25C
Telephone Access to Office Systems		6467-039	250									.G320-9154	PROFS,PS/36,PS/38	05E
Teleprocessing Network Simulator Ver 1	TPNS	5740-XT4			1840							GH20-1907	05/V5	11B
Teleprocessing Network Simulator 2.3	TPNS	5662-262			1875							GH20-2487	MVS,XA,VM	11E
+Token-Ring Network Bridge Install Kit		6476-041	3285									GA27-3677	2 TR Nets+AT,AT-Ind	05M
+Token-Ring Network Bridge Program		6403-831	1495									GA27-3677	2 TR Nets+AT,AT-Ind	05M
+Token-Ring Network Manager		6476-046	1495									GA27-3677	PC,XT,AT+TR Net adapt	05M
+Token-Ring Network NETBIOS		6467-037	35										PC,PPC,XT,AT+adapter	05H
+Token-Ring Network/PC Interconnect		6467-036	495										Token-Ring NETBIOS	05H
+Token-Ring/PC Network Interconnect Progr		6476-036	495									GA27-3677	PC,XT,AT+Net adaptps	05M
ISO Data-set Print VTAM, XA Extensions		5798-CPF/01	957		76							12.GB21-2069	4607,4598	15H

Program Title	Short Name	Number	OTC	ILC	MLC	DSO	DSI	DSH	MLP	MML	Mo	MoreInfo	Environment	TPLS
TSD Host Server for PC XT/370 (VM/PC)	TSOSERV	5798-DTL	2420									G520-3917	MVS+VTAM	1SH
View Data Support		5785-EBM	4220		192							3705		0SC
+Virtual Machine / Personal Computer 1.2	VM/PC	6467-040	1150									SC24-5254	5664-319+AT/370	0SM
VM Bond Release 1		6317-007	125									GH24-5089	PC, XT, XT/370+PCBond	0SH
+VM Bond Release 2		6467-022	250									GH24-5089	PC, XT, AT, XT/370, AT/3	0SM
+VM Bond Tech Coord Support Release 2		6467-043	400									GH24-5089	VM Bond Release 2	0SM
+VM Bond Upgrade Release 1 to 2		6467-044	175									GH24-5089	VM Bond Release 1	0SM
VM Interface Program for TCP/IP		5798-DRG	18700		850							G320-9219	VM+EDX/RPS/DACU	1SH
+VM/PC Host Server		5664-319	2000		135								VM+VM/PC on AT/370	1SX
+VM/PC Upgrade from 1.1 to 2		6467-042	150									SC24-5254	Release 1.1	0SM
+Voice Communication Operating Subsystem		6280-708	65										PC, XT, AT	0SZ
Voice Communications API Reference		6280-743	149										PC, XT, AT+VoiceComOpt	0SZ
Voice-Activated Keyboard Utility		6280-742	99										PC, XT, AT+VoiceComOpt	0SZ
Voice/Phone Assistant		6280-741	149										PC, XT, AT+VoiceComOpt	0SZ
VSE/Network Management Productivity Faci	NMPF	5798-DRR	1200									G320-9239	VTAM	2SH
VSE/SP ACF/VTAM Feature		5799-BNC/11	6815			284	6135		256				4945, 4996, 4997, 4581	1SK
VSE/SP BTAM-ES (Includes 5747-CG1)		5799-BNB/11	514			38	463		34				4935, 4971	1SK
VSE/SP BTAM-ES (Includes 5747-CG1)		5799-BNC/10	592			44	535						4946, 4995	1SK
VTAM Communications Network Applications	VM/VCNA	5735-RC5		1100	402			825	302	135	215		GC27-0501 VM/SP+DOS/VSE, VS1	2SK
-VTAM Configuration and Generation Aid		5798-CTL	1375		275							06	GB21-2233 DOS/VS	0IH
-VTAM Level Selector		5798-DBZ	1890		78								.GB21-2580 OS/VS-MVS	1SX
VTAM Node Control Application	VNCA	5785-ECE	5280		240								.GB21-3052 MVS	1SX
VTAM Node Control Applicatn Source Code	VNCE	5785-ECE/01	nc										.GB21-3052 6000, 6001	N1SX
VTAM Performance & Analysis Reporting II	VTAMPARS 2	5798-DFE	5570	504	198								.GB21-2786 Succeeded by NPM	1SE
-VTAM Performance Analysis & Reporting	VTAMPARS	5798-CTM	1625		74								.GB21-2246 OS/VS, 5798-CPR	1IX
VTAM SCP ACF/VTAM	ACF/VTAM	5747-CF1	nc										GC27-0459 DOS/VSE	NOSJ
VTAM SCP for ACF/VTAME		5747-CG2	nc										GC27-0440 DOS/VSE	NOSJ
Waterloo HOSTCM		5793-AAN/03	330										2003	0SF
Waterloo PC Network Channel Attached		5793-AAN/01	nc										.GB30-2411 2001	NOSF
Waterloo PC Network Standalone Server		5793-AAN	1650										.GB30-2411 DOS+RPS on Series/1	0SE
Waterloo PC Network VM Server		5793-AAN/02	1650										.GB30-2411 2002	0SF
-Wideband Communication Program	HCP	5796-PBJ	7260		660							12	G320-5540 OS/VS1, OS/VS2	1SH
X.25 NCP Packet Switching Interface 4.3	NPSI	5668-981		770	269								GC30-3189 3720/25+NCP 4.2	2SK
+X.25 SNA Interconnection	XI	5799-BZJ	37200										MVS	2SM
+X.25 SNA Network Supervisory Function	NSF	5799-HYE	nc										XI (5799-BZJ)	N2SM
Yale ASCII Communications - Host Loaded		5798-RRJ	4070										.GB30-2317 VM to EDX to 4994	1SX
270x Emulation on 3705/20/25 Release 4	EP/3705/25	5735-XXB		1365	256			1025	192	40	64		GC27-0657 MVS, XA, VSE, VM	2SK
3101 VM Pass-Through Support	PVM/3101	5796-PPF	170										G320-6637 VM/SP, VM/BSEP, VM/SE	1SE
-3270 Emul Upgrade from 8665780		59X9-904/01	75										3278/9 Emul Adapter	0SZ
+3270 Emulation Program Entry Level		59X9-904	185										3278/9 Emul Adapter	0SZ
-3270 Emulation Program Version 2.0		59X9-951	425										SC23-0892 PC, XT, AT, LAN	0SZ
+3270 Emulation Upgrade from 59X9904		59X9-951/02	240										SC23-0892 9953	0SZ
-3270 Emulation Upgrade from 6322526		59X9-951/03	75										SC23-0892 9954	0SZ
-3270 Emulation Upgrade from 8665780		59X9-951/01	190										SC23-0892 9952	0SZ
+3270-PC AT/GX 327GA Emulator		6476-047	1000										3270-PC AT/GX	0SH
+3270-PC Emulation Program Version 3.0	Token-Ring	59X9-969	475										PC, XT, AT	0SZ
+3270-PC Emulation Upgrade from Entry Lev	Token-Ring	59X9-980	240										59X9904	0SZ
-3270-PC Emulation Upgrade from SNA 3270	Token-Ring	59X9-981	75										6322526	0SZ
-3270-PC Emulation Upgrade from Ver 2.0	Token-Ring	59X9-995	75										59X9951	0SZ
3704/5 Emulator Support Package	EP/VS	5744-ANI	nc										GC30-3002 OS/VS, VM	NOSJ



<u>Program Title</u>	<u>Short Name</u>	<u>Number</u>	<u>OTC</u>	<u>ILC</u>	<u>MLC</u>	<u>DSO</u>	<u>DSI</u>	<u>DSH</u>	<u>MHP</u>	<u>MHL</u>	<u>Mo</u>	<u>MoreInfo</u>	<u>Environment</u>	<u>TPLS</u>
-3704/5 EP Trace Editor Program		5798-CHZ	660									12.GB21-1822	DOS/VS,OS/VS,MVS/XA	1IH
+3728 Matrix Switch Host Facility		5665-428	6000									G520-6040	NetView/NCCF+MVS,XA	1SM
+3728 Support Processor		5668-787	12000									GA27-3644	Multiple Com Ctrls	1SE

## Computer Based Training

Emerging as one of the fastest growing Clusters. Here you'll find a number of self-paced courses that are taken at the computer terminal or the computer itself. There are three major offerings for those at the *teaching* end of the educational process: 1) The Interactive Instructional Authoring, and 2) Interactive Instructional Presentation Systems are S/370 based. In the rose pages we include the Personal Computer's equivalent— 3) PC Instructional System which is compatible and connectible (optionally) to the S/370 programs. It is recently announced and is the most important offering in this Cluster. See the article in the rose pages.

PILOT also is an excellent offering. It has many similarities to PCIS but differs in that it is not compatible with IIAS and IIPS. It has outstanding color graphics.

The Private Tutor Series has similarities to PC/IS and PILOT, but perhaps not the depth of function power. Its outstanding features are optional learning modules for algebra, multiplication tables, intermediate and advanced BASIC topics and elementary FORTRAN. It is affordably priced.

Program Title	Short Name	Number	OTC	ILC	MLC	DSO	DSI	DSM	MLP	MML	Mo	MoreInfo	Environment	TPLS
-Accounting Principles Course		5796-PQY		990	379							12.G320-6671	IIS	1EX
ADF - Training Feature		5798-DDW/01	700									.GB21-2712	6020-6023	15X
-ADRS-II Introduction		5798-DFC	1385		105							.GB21-2780	IIS,IIPS	1EH
-APL - Based Products Interfacing Course		5798-DHN	1305									.GB21-2914	IIS,IIPS	1EX
-APL Beginner's Course		5796-PPW	770									.G320-9140	IIS,IIPS	15X
-APL Interactive Training Course		5796-PJW	1055		40							.G320-5812	5748-AP1	1EH
-Application Development Facility Course	IMS/ADF	5798-DDW	1650		125							12.GB21-2712	5668-012+5746-XX6	15H
BASIC - A Private Tutor		6024-081	39									G520-3917	PC	05Z
BASIC Primer		6024-053	65									G520-3917	PC	05Z
BASIC Primer Version 2		6024-129	65									G520-1107	PC,XT,PCjr	05Z
BASIC Self-Study Course		5796-ZBN	550									.GB30-1914	Sys/23 Datamaster	15X
-BASIC VS Programming		5798-DBX	3760		285							.GB21-2574	IIS,IIPS	1EH
CICS/VS Command Level Programming Course		5798-DCX	1415									.GB21-2628	IIS,IIPS	1EX
CMS Fundamentals II		5798-DGJ	1980	360	120							.GB21-2855	IIS,IIPS	1EX
-COBOL Interactive Debug Training II		5798-DFZ	1090									.GB21-2825	IIS,IIPS	1EX
Computer Assisted Training 1.2		5710-CAT	990									.GB30-2253	System/36,S/36 PC	15H
Computer Preparation for the SAT tm		6187-307	79									.GB30-2037	PC,XT,PCjr	05Y
-Computer-Assisted Training II		5798-NZA	715		143							06.GB30-1481	System/34	1EH
DisplayWrite 2 Computer-Based Training		7732-281	250									G320-1244	PC,AT+DisplayWrite 2	05C
DL/I Advanced Programming Course II		5798-DJE	2860									.GB21-2937	IIS, IIPS	1EX
DL/I Basic Programming Course II		5798-DGR	2860									.GB21-2872	IIS, IIPS	1EX
Document Composition Training	DCF	5796-PNE	1320									.G320-6331	IIS,IIPS	1EH
DOS 2 Learning to Use		6024-080	15									G520-3917	PC	05Z
English Communications Skills II		5796-BBT	5080		385							.G320-6433	IIS,IIPS	1EH
FORTRAN VS Course		5796-BCT	1925									.G320-6653	IIS,IIPS	1EX
Gertrude's Puzzles		6024-098	49									G520-1107	PC,XT,PCjr,PPC	05Z
Gertrude's Secrets		6024-097	49									G520-3917	PC,XT,PCjr+Color	05Z
Ground Water - Earth Science Series		6024-122	55									G520-1107	PC,XT,PCjr,PPC+DOS2+	05Z
Hydrologic Cycle - Earth Science Series		6024-121	55									G520-1107	PC,XT,PCjr,PPC+DOS2+	05Z
-ICCF/VSE Introduction		5798-DDX	660		60							12.GB21-2709	IIS,IIPS	1EH
IIAS XT/370		5668-011/01	1890		60							.	3013,3008	05C
IIPS XT/370		5668-012/01	604		18							.	3009,3014	05C
-IMS DC Programming Course II		5798-DFQ	1540									.GB21-2813	IIS, IIPS	1EH
-IMS/VS Master Terminal Operator Training		5798-DEG	990									.GB21-2736	IIS,IIPS	1EX
-IMS/VS Message Format Services Training		5798-CKY	3190		242							.GB21-1933	IIS,IIPS	1EH
Instructional System - Administration	PC/IS	6428-087	439									.G320-0441	PC	05X
Instructional System - Authoring	PC/IS	6428-072	575									.G320-0441	PC	05X
Instructional System - Presentation	PC/IS	6428-071	89									.G320-0441	PC	05X
Interactive Instructional Authoring	IIAS	5668-011	16170		529							.GH20-0008	VM,IMS,CICS+TCAMVTAM	2EB
Interactive Instructional Presentation	IIPS	5668-012	9450		309							.	MVS,VSE,VM	2EB
Interactive Instructional System	IIS	5748-XX6			582							.GH20-1895	DOS/VS,OS/VS,VM	25X
Karel the Robot		6024-066	150									G520-1107	PC,XT,PCjr,PPC	05Z
LOGO (R) with Turtle Graphics		6024-076	175									G520-3917	PC,PCjr	05Z
MasterType tm (Feature 9294)		6871-484	39									.GB30-2037	PC,XT,PCjr	05Y
Math Blaster! tm		6871-443	49									.GB30-2037	PC,XT,PCjr	05Y
Mathematics, Elementary		5796-APC			260							24.G320-5804	IIS,IIPS (NOT IMS)	1EH
Metric I - Fundamentals of Decimals		6871-487	49									.GB30-2037	PC,XT,PCjr	05Y
Metric III - Units of Measurement		6871-518	49									.GB30-2037	PC,XT,PCjr	05Y
Metric IV - Linear Units (Feature 9329)		6871-519	49									.GB30-2037	PC,XT,PCjr	05Y
Metric V - Area Density Measurements		6871-520	49									.GB30-2037	PC,XT,PCjr	05Y

Program Title	Short Name	Number	DTC	ILC	MLC	D50	DSI	DSH	HLP	MHL	Mo	MoreInfo	Environment	TPLS
Moisture in the Atmosphere		6024-124	55									G520-1107	PC,XT,PCjr,PPC+DOS2+	OSZ
MVS Operator Problem Determination		5798-DEY	836									.GB21-2760	IIS, IIPS	1EH
Network Management Productivity Facility	NMPF	5798-DPC	800									.G320-9165	MVS+NCCF	1SH
OS/VS JCL, Learning to Code		5798-DAJ	1250									.GB21-2508	IIS, IIPS	1EH
<del>PCCravon tm (Feature 9290)</del>		<del>6871-480</del>	<del>60</del>									<del>.GB30-2037</del>	<del>PC,XT,PCjr</del>	<del>OSY</del>
Personal Teaching Aid	PTA/34	5726-PT1	600									.G580-0534	System/34	1SX
Personal Teaching Aid - Authoring	PTA/34	5726-PT1/01	1200									.G580-0534	6025	1SX
PL/I Programming Training		5798-CRJ	3245		246							.GB21-2187	IIS, IIPS	1EH
Private Tutor Version 1		6024-052	55									G520-3917	PC	OSZ
Private Tutor Version 2		6024-113	55									G520-1107	PC,XT,PCjr,PPC+DOS2+	OSZ
Professor DOS tm		6871-423	59									.GB30-2037	PC	OSY
Programmed Inquiry Learning or Teaching	PILOT	6316-973	219									.G520-1107	PC,XT,AT,PPC,PCjr	OSH
Rocky's Boots		6024-099	50									G520-1107	PC,XT,PCjr,AT+color	OSZ
+Self-Teach, The Online XEDIT Tutorial		5798-DMH	1500									.G320-9499	VM	2SH
<del>-STAIRS/VS Training Course</del>		<del>5796-PLF</del>	<del>3300</del>		250							<del>.G320-6078</del>	<del>IIS, IIPS</del>	<del>1EH</del>
Surface Water - Earth Science Series		6024-123	55									G520-1107	PC,XT,PCjr,PPC+DOS2+	OSZ
Thoughtware (R) Sampler		6187-217	19									.GB30-2037	PC,XT,PCjr+DOS2	OSY
TSD Introduction		5798-CKT	3375		256							.GB21-1924	IIS, IIPS	1EH
Turtle Power (Feature 4109)		6024-109	55									G520-3917	PC,PCjr,XT	OSZ
Typing Tutor (Diskette Version)		6024-013	29									G520-3917	PC	OSZ
xUsing EDX and EDL (Computer Based Trng)		7732-907	varies									SR20-8720	Series/1	V0SC
Using TSO Effectively II		5798-DFX	1090									.GB21-2818	IIS, IIPS	1EX
VSAM and Access Method Services Course	VSAM AMS	5798-DAN	2055									.GB21-2518	IIS, IIPS	1EH
Writing to Read		6360-700	725									G520-1107	PCjr+Speech attachmt	OSZ
<del>-3033 AP/MP Operator Training</del>		<del>5798-DFA</del>	<del>1385</del>									<del>.GB21-2769</del>	<del>IIS, IIPS</del>	<del>1EH</del>
3276 / 3278 Operator Training Course		5798-CMZ	2115									.GB21-2290	IIS, IIPS	1EH
5280 Computer-Assisted Training		5798-RLF	550									.GB30-1923	5280 Data System	1SX

## Construction

1985 proved to be another strong year in construction with a ten percent increase in new business. Construction contributed nine percent to GNP and 340 billion in current dollars. The Department of Commerce predicts a larger contribution in 1986. However, we are now faced with economic uncertainties of tax reform and the impact of budget cutting mandates from congress. Today the need for tight control and studious planning and first rate management is critical.

Implementation of tools and techniques that will save time and money, will be the key to increased profits in the second

half of this decade. IBM has a family of offerings in costing, estimating, and scheduling to meet these needs. The flagship program is the Construction Management Accounting System (CMAS). A feature article on this outstanding package appears in Section One.

Coverage of construction engineering is included in the Engineering and Scientific Cluster. Also, the Clusters of Project Management and Personal Computers are relevant to contractors.

Program Title	Short Name	Number	OTC	ILC	MLC	DSO	DSI	DSH	MLP	HML	Mc	MoreInfo	Environment	TPLS
Accounts Payable	CMAS/34	5726-M68	3200		131	2400		98				.GH30-0707	System/34	11D
Accounts Payable	CMAS	5727-M68	3355		195	2515						.GH30-9003	CASS	15B
Accounts Payable - Construction SPM	CMAS/34	5726-M62	1625		78							.GH30-0707	System/34	11C
Bid Day System	CES	5710-RTZ	1650									.GB30-2450	System/36	15H
<b>CADAM (R) D/B/M Detail Library Feature</b>		<b>5668-853/01</b>	<b>2675</b>	<b>224</b>	<b>74</b>	<b>1675</b>	<b>148</b>	<b>47</b>					<b>2146,4644,4624,2346,</b>	<b>15E</b>
CADAM (R) Design/Build/Manage		5668-853	20000	1765	535	13400	1185	395					5796-ATA,ATB,PTH	15E
+CADAM (R) DRAWING Viewing on PC		5796-TBQ	750									G320-0898	5796-TBP+EGA+8087	05Y
+CADAM (R) DRAWING Viewing Program - Host		5796-TBP	1250									G320-0898	VM,MVS+5796-TBQ	15H
CADAM (R) 3D Piping		5796-BFN	41730	2730	910	26150	1830	610					5668-840	15E
+CAEDS (R) - CATIA (R) Geometry Transform		5796-TBN	4250									G320-0900	MVS,VM	15H
CAEDS (R) Finite Element Solver		5796-BDN	26470	3655	941	19800	2400	620				G520-3935	5796-BBZ+3277GA,3251	15E
+CATIA (R) Building Design		5668-741			400								CATIA Base+Draft 2.2	15E
CMAS File / Record Definitions		5798-RPZ	330									.GB30-2138	Retrieval/36	15X
-CMAS File / Record Definitions		5798-RQP	330									.GB30-2136	Retrieval/34	15X
<b>Committed Cost / Cost History Feature</b>	<b>CMAS</b>	<b>5727-M68/01</b>	<b>1815</b>		<b>106</b>	<b>1360</b>		<b>85</b>				<b>.GH30-9003</b>	<b>4566,4586,4619,6007</b>	<b>15A</b>
Committed Cost / Cost History Feature	CMAS/34	5726-M68/01	1730		70	1300		51				.GH30-0707	6021,6026,6592,6526	11D
-Construction Data Entry/Edit Support	CMAS	5798-RBZ	605		55							12.GB30-1516	5280 Data System	15H
-Construction Info System - Accts Payable		5796-ZDX	2310									.GB30-2082	Datamaster+5247	15X
-Construction Info System - General Ledger		5796-ZDZ	2145									.GB30-2082	Datamaster+5247	15X
-Construction Info System - Job Costing		5796-ZDY	2145									.GB30-2082	Datamaster+5247	15X
-Construction Info System - Payroll		5796-ZDW	2420									.GB30-2082	Datamaster+5247	15X
-Construction Information - Accts Payable		5796-ZAR	1815									.GB30-1728	Sys/23 Datamaster	11H
-Construction Information - Genl Ledger		5796-ZAT	1705									.GB30-1728	Sys/23 Datamaster	11H
-Construction Information - Job Costing		5796-ZAP	1705									.GB30-1728	Sys/23 Datamaster	11H
-Construction Information - Payroll		5796-ZAQ	1925									.GB30-1728	Sys/23 Datamaster	11H
+Construction Inventory	CMAS	5796-ZPP	3000									.GB30-6016	5727-M6X+M66	15H
Cross Application System Support	CASS	5727-M6X	1650		94	1235						.GH30-9003	S/36,S/36 PC,+CMAS	15B
Drywall Contractor Module	CES	5710-RTQ	2200									.GB30-2450	5710-RTN	15H
Electrical Contractor Module	CES	5710-RTT	8250									.GB30-2450	5710-RTR	15H
Equal Employment Opportunity Report	CMAS	5798-RQC	1100									.GB30-2185	5727-M69	15C
-Equal Employment Opportunity Report	CMAS	5798-RQK	825									.GB30-2179	System/34	15X
Executive Data Link to PC (5250 Emulate)	CMAS	5798-RRP	2750									.GH30-9029	CMAS/34	15X
Executive Data Link to PC (5250 Emulate)	CMAS	5798-RRZ	2750									.GH30-9030	CMAS/36	15X
Fastdraft Drawing Mgt to MAPICS Bridge		5796-RRN	2350										System/34+7361	15X
<b>Fire Protection Module</b>	<b>CES</b>	<b>5710-RTX</b>	<b>1100</b>									<b>.GB30-2450</b>	<b>5710-RTR</b>	<b>15H</b>
General Contractor Module	CES	5710-RTP	8250									.GB30-2450	5710-RTN	15H
General Ledger	CMAS	5727-M67	2475		145	1855						.GH30-9003	CASS	15B
General Ledger - Construction	CMAS/34	5726-M64	1310		62							.GH30-0707	System/34	11C
General Ledger - Construction	CMAS/34	5726-M67	2360		98	1770		73				.GH30-0707	System/34	11D
<b>Initial Graphics Exchange Spec Processor</b>	<b>IGES 2.1</b>	<b>5668-904</b>	<b>26000</b>	<b>2400</b>	<b>800</b>								<b>9374LM3+5796ATC+ATJ</b>	<b>15Z</b>
Interactive Cost Estimating - Base	CES	5710-RTN	12650									.BG30-2450	System/36	15H
Interactive Cost Estimating - Base	CES	5710-RTR	12650									.GB30-2450	System/36	15H
Job Analysis System	CPM	5726-XP1	5090		207	3820		154				.GH30-0511	System/34	15C
Job Analysis System		5798-RRH	3025									.GB30-2309	System/36	15X
<b>Job Costing</b>	<b>CMAS</b>	<b>5727-M66</b>	<b>2475</b>		<b>145</b>	<b>1855</b>						<b>.GH30-9003</b>	<b>CASS</b>	<b>15B</b>
Job Costing - Construction	CMAS/34	5726-M61	1310		62							.GH30-0707	System/34	11C
Job Costing - Construction	CMAS/34	5726-M66	2360		98	1770		73				.GH30-0707	System/34	11D
Maintenance & Construction Costing System		5796-PXT	11000									.G320-0338	System/34,36+COBOL	15.1
Mechanical Contractor Module	CES	5710-RTY	3850									.GB30-2450	5710-RTR	15H
Payroll - Construction	CMAS/34	5726-M63	2255		109							.GH30-0707	System/34	11C

Program Title	Short Name	Number	OTC	ILC	MLC	DSO	DSI	DSM	HLP	MHL	Mo	MoreInfo	Environment	TPLS
Payroll And Labor Costing	CMAS	5727-M69	4455		257	3340						.GH30-9003.CASS		1SB
Payroll and Labor Costing - Construction	CMAS/34	5726-M69	4250		173	3190		129				.GH30-0707 System/34		11D
Plumbing Contractor Module	CE5	5710-RTW	3300									.GB30-2450 5710-RTR		1SH
Revenue Accounting	CMAS	5727-M6A	3905		227	2930						.GH30-9003.System/36+CASS		1SB
Revenue Accounting Construction A/R	CMAS/34	5726-M6A	3725		151	2795		112				.GH30-0707 System/34		11D
Timberline Accounts Payable		6871-490	990									.GB30-2037 PC,XT,AT		0SY
Timberline Architect/Engineer		6871-516	2800									.GB20-2037 PC,XT,AT		0SY
Timberline Estimating		6871-337	690									.GB20-2037 PC,XT,AT		0SY
Timberline General Ledger		6871-514	990									.GB20-2037 PC,XT,AT		0SY
Timberline Job Cost		6871-524	2390									.GB20-2037 PC,XT,AT		0SY
Timberline Payroll		6871-508	990									.GB20-2037 PC,XT,AT		0SY
Timberline Starter Set		6871-511	100									.GB20-2037 PC,XT,AT		0SY
Timberline TS-Reporter I		6187-230	190									.GB20-2037 PC,XT,AT		0SY
+Time & Material/Service Billing	CMAS	5796-ZPK	3500									.GB30-6016 5727-M6X+M6A		1SH
7361 Fastdraft System		5719-GP1		1070	160						36	GC34-0513 7361+3101+3251		2SX

Program Title	Short Name	Number	OTC	ILC	MLC	DSO	DSI	DSM	MLP	MML	Me	MoreInfo	Environment	TPLS
-Autocoder to COBOL Conversion Aid Progrm	ACCAP	5798-CNH	1230									.GB21-2022	VM/CMS	0IH
+BASIC Conversion Aid from BASIC Four		5798-DMB	3000									.G320-0830	System/38	15H
BASIC 5110/5120 to Sys/23 Conversion Aid		5715-CV1	875									GC34-1693	Sys/23 Datamaster	1IE
Batch to SSX/VSE Conversion Aid		5785-KAJ	407									.G320-9191	SSX/VSE	15X
Character Conversion Aid		5665-299	1100									MVS+5748-XXH+AP1		0IE
COBOL - 05 to VS COBOL II		5785-AAT	5500		250							.G320-0445	MVS, XA	15H
COBOL Conversion Aid		5798-RGT	1430									.GB30-1764	System/38	0SX
-COBOL Conversion Aid from NCR (R)Century		5798-APG	2315									.GB21-0839	DOS/05	0IH
-COBOL Conversion Aid from NCR 8200		5798-NYR	990									.GB30-1433	System/34	0SH
-COBOL Conversion Aid from Univac (R)		5785-JAC	3300									.GB21-2763	DOS/VSE 05/VS	0SH
-COBOL Conversion Aid to System/38		5798-NXW	632									.GB30-1362	System/3	0SH
-COBOL Conversion from Burroughs (R) 2500		5798-APH	2435									.GB21-0836	DOS/05	0IH
-COBOL Conversion from Honeywell (R)		5785-JAA	3300									.GB21-2858	05/VS, DOS/VSE, VM/370	0SH
-COBOL/PL/I Conversion Aid - VSE to MVS		5785-EBG	4330									.GB21-2792	DOS/VSE, MVS, VM/CMS	0IH
-Colorcopy		5796-PTQ	1375									.G320-9151	VM, MVS	15X
Conversion Reformat Utility		5714-CV2	600			20	528	18				GC21-7779	System/38	15A
Direct Access Storage Device Migration		5668-002	1450						19	30		GC26-3972	05/VS+3375/3380	0IX
DL/I to IMS Data Dictionary Migration		5798-DLN	2200									.G320-9196	VSE and IMS	15H
DOS Emulator		5744-AS1	nc									GC33-2017	05/VS	NO5C
Fastdraft to IGES Translator		5796-BEB		2285	251						24	05/VS, VM/SP		15X
-FORTRAN Conversion Aid from non-S/370		5796-PFG	5500		250							.G320-8154	05/VS, VM/CMS	1IH
Honeywell (R) 200 Emulator	RPQ-P81003	5799-ADT		757								GA24-3604	DOS DOS/VS	05C
+Interactive Executive 3270-PLUS	IX/370	6317-060	995									.G320-0837	AT+Xenix+SDLC adapter	05H
-ISAM to IMS/DB Bridge		5798-DBG	1815		165						12	.GB21-2547	05/VS	15H
JCL Conversion Aid from VSE to MVS or XA		5798-DPH	11000		500							.G320-0440	VSE and MVS	15H
-Load Module Analysis Program		5798-DMF	1210									.GB21-3044	05/VS	15X
-Magnetic Card Conversion		5688-SR3	525		240							G544-0851	Displaywriter	05E
OCL Online Procedure & Menu Convrns		5785-DFD	709									.G320-9191	System/34+CICS/SSX	15X
Online to CICS-RPGII Conversion Aid		5785-DFB	1015									.G320-9191	SSX/VSE	15X
RCA (R) 301 Emulator	RPQ-P81002	5799-ADR		818								GA24-3605	DOS DOS/VS	05C
RPG II Conversion Preprocessor		5735-CV1	660									GH20-4532	S/3 to DOS/VS	0IC
S/3 CCP to S/38 Conversion	PROD AID	5714-CV7	2810									GC21-7772	System/38	05X
-S/3 DBT to S/38 Conversion Aid		5798-NYN	271									.GB30-1389	System/3	05H
-S/3 OCL to DOS/VS JCL Conversion Aid		5798-CQJ	660									.GB21-2130	DOS/VS	05H
Smarterm tm 100 (DEC.VT52.VT100.1,2,EDT)		6871-489	149									.GB30-2037	PC, XT, 3270-PC	05Y
SSP 3270 Emulation Feature		5727-SSI/04	2500		263	2200						GC21-9021	4508, 4509, 4603	15A
-Sys/3 to Sys/34 Conversion Aid		5798-NTE	474									.GB30-1231	System/34	05H
System/3 to System/36 RPG-II Conversion		5798-DQR	330									.G320-0342	System/36	15H
System/34 to System/36 Migration Aid		5727-MA1	250									GC21-9058	System/34+System/36	0IX
System/34 to System/38 Conversion		5714-CV5	1625									GH30-0460	System/38	05D
UCC TMO VSE to MVS Migration Aid	UCC2	5796-PHW	49500									.G320-9190	VSE+MVS, XA	15H
Virtual CPU - Series/1		5798-DMP	3740									.GB21-3064	VM/CMS	15X
VM/XA Migration Aid Remote 3270 Option		5664-183		2400	800		1800	600	42	67		GC23-0126	VM/XA+VM Pass-thru	15K
VM/XA Systems Facility Rel 2		5664-169		11220	3740		84152805	623	997			GC19-6213	4381, 308x, 3090	25K
VTERM (DEC.VT100 tm, DEC.VT52 tm)		6871-491	125									.GB30-2037	PC, XT	05Y
-Word Processor File Conversion		5798-DFY	915									.GB21-2821	05/VS, DOS/VSE	05H
1400 Compatibility Access Routine		5798-CDB	500									.GB21-1546	DOS/VS	1IH
1400 Emulator Programs		5747-CC3	nc									GC33-5384	DOS/VS	NO5C
1401/1440/1460 Emulator		5746-SU1	3400			154	2550		115	6	10	GC33-0011	DOS/VS, DOS/VSE	15X
1401/1440/1460 Integrated Emulator		5744-AH1	nc									GC33-2018	05/VS	NO5C



<u>Program Title</u>	<u>Short Name</u>	<u>Number</u>	<u>OTC</u>	<u>ILC</u>	<u>MLC</u>	<u>DSO</u>	<u>DSI</u>	<u>DSM</u>	<u>MLP</u>	<u>MML</u>	<u>Mo</u>	<u>MoreInfo</u>	<u>Environment</u>	<u>TPLS</u>
1410/7010 Integrated Emulator		5744-AG1	nc									GC33-2019	OS/VS	NOSC
270x Emulation on 3705/20/25 Release 4	EP/3705/25	5735-XXB		1365	256		1025	192	40	64		GC27-0657	MVS,XA,VSE,VM	2SK
3270 Binary Synchronous Emulation		6024-037	769									G520-3917	PC	0SZ
3270 Device Emulation on S/34		5726-EM1	5500		223	4125		167				GC21-7807	System/34	1SX
<del>3277 Emulation and Document Transfer</del>	<del>RPQ-P10074</del>	<del>5799-BKG</del>	<del>550</del>									<del>GA09-1679</del>	<del>5799-BKE</del>	<del>0SE</del>
<del>3277 Emulation for Displaywriter</del>	<del>RPQ-P10034</del>	<del>5799-BHT</del>	<del>450</del>									<del>GA09-1679</del>	<del>Displaywriter</del>	<del>0SE</del>
3340 Data Import from System/3		5746-AM3	1320									GC33-6062	DOS/VSE VSAM	0SC
3704/5 Emulator Support Package	EP/VS	5744-AN1	nc									GC30-3002	OS/VS,VM	N0SJ
7040/7044 Emulator		5744-AK1	nc									GC27-6948	OS/VS	NOSC
<del>7070/7074 Emulator</del>		<del>5744-AJ1</del>	<del>nc</del>									<del>GC27-6948</del>	<del>OS/VS</del>	<del>NOSC</del>
7080 Emulator		5744-AL1	nc									GC27-6952	OS/VS	NOSC
7090/7094 Emulator		5744-AM1	nc									GC27-6983	OS/VS	NOSC

## **CPA, Legal and Consulting Professionals**

This cluster includes the entire consulting profession. Most notable to the computing community have been the larger firms of certified public accountants, attorneys, management and data processing specialists. Until recently many other consultants made little direct use of computers.

Everybody knows that mainframe and minicomputer cost per unit of CPU and storage declined steadily in the 1970s, and continues. But note, at each end, computers are becoming dramatically larger (e.g. 31-bit architecture), and dramatically smaller—the microcomputer.

The micro's compute power and low price encourage the writing of data bases, models and many other advanced knowledge-working devices at a fraction of the price of the micro itself. Even dial communications to associates and central data bases is economical. The situation is similar with minicomputers and System/370s.

Professional consultants should scan the Clusters pertaining to Application Development, the Information Network, Decision Support and Query. You are invited to examine the Subscription card (last one in the book), marking your own interest area plus those of your clientele—preferably enclosed with your letterhead. A Reader Comment card is provided for correspondence with the Editor about this book.

Program Title	Short Name	Number	QTC	ILC	MLC	DSO	DSI	DSH	MLP	MML	Mo	MoreInfo	Environment	TPLS
Accounts Receivable and Collection	Attorney	5793-ABD	968									.GB30-2151	5793-AAZ+ABZ	.05X
Accts Receivable Collections Series 800	Attorneys	5793-ACL	440									.GB30-2415	S/36+5793ACH+ABZ	.05H
+Attachment/370+		6317-047	300									.GH30-0760	PC,XT,AT,3270-PC/AT	.05G
+Attachment/370+ Upgrade from 6316971		6467-046	101									.GH30-0760	Attach 370 Edition	.05G
Attorney Info Sys - Controller System		5793-ABZ	192									.GB30-2151	System/36	.05X
Attorney Practice - Conflict of Interest		5793-ABH	3850									.GB30-2160	5793-ABL+ABZ	.05X
Attorney Practice - Research & Retrieval		5793-ABG	6270									.GB30-2160	5793-ABZ	.05X
Attorney Practice - Statutory Dates	Docket	5793-ABF	3850									.GB30-2160	5793-ABL+ABZ	.05X
Attorneys Info System 5247 Disk Support		5796-ZBH/01	750									.GB30-2029	3022	.11X
Business Professional System	BPS	5750-AAI	varies									.G520-0007	VM/SP	V @
Client & Lawyer Financial System	Manac	6187-248	975									.GB30-2037	XT,AT	.05Y
Client & Lawyer Financial System	Demo	6187-266	100									.PC		.05Y
Client Account & Financial Report Sys II	CAFRS	5726-C22	7400			280	5550	196				.GH30-0230	System/34	.11X
Client Account & Financial Reporting Sys	CAFRS	5726-C21	4100			182						.GH30-0230	System/34	.11C
Client Accounting		5715-CA1	2230									.GB30-2796	Sys/23 Datamaster	.11E
Client Files, Conflict & Dates System	Manac	6187-249	450									.GB30-2037	XT,AT	.05Y
Client Files, Conflicts and Dates	Demo	6187-267	100									.PC		.05Y
Client Financial Management	Attorney	5793-AAZ	10830									.GB30-2151	5793-ABZ	.05X
Client Financial Management Series 800	Attorneys	5793-ACH	4950									.GB30-2415	System/36+5793-ABZ	.05H
Client Statements	Attorney	5793-ABE	423									.GB30-2151	5793-AAZ+ABZ	.05X
Client Statements Series 800	Attorneys	5793-ACN	220									.GB30-2415	S/36+5793ACH+ABZ	.05H
Client/Matter Record Management	Attorney	5793-ABL	2320									.GB30-2166	5793-ABZ	.05X
Client/Matter Records Mgt Series 800	Attorneys	5793-ACR	1100									.GB30-2415	S/36+5793ABZ	.05H
-Color Text Presentation Facility		5798-DMZ	1210									.GB21-3086	3279+GDDM+5748-AP1	.15X
Conflict of Interest Series 800	Attorneys	5793-O3L	1650									.GB30-2415	S/36+5793ACL+ABZ	.05H
Cooperative Viewing Facility Version 2	CVIEW	5664-296	5280			330						.G520-6005	VM	.25A
CVIEW Upgrade from Version 1 to 2		5664-296/01	1375									.5298,5299		.25A
Disbursements from Copier/Postage	Attorney	5793-ABX	2200									.GB30-2170	5793-AAZ+ABZ	.05X
Disbursements from Displaywriter	Attorney	5793-ABR	2200									.GB30-2170	5793-AAZ+ABZ	.05X
DisplayWrite Legal Support		6024-190	179									.G520-3917	DisplayWrite 2	.05Z
Document Composition Facility XT/370	Script	5748-XX9/02	864			19						.3003,3008		.05C
Dynamic Simulation Language/VS	DSL/VS	5798-PXJ	10000			454						.G320-0357	VM,MVS,XT/370	.15H
E/S (3) PF Release 2	IPD	5664-283	2000			107	1800					.G520-0118	E/S (3)	.25K
EDX Videotex System SVS/1	RPQ-P82696	5799-TFN	13750									.G520-3992	Series/1	.15X
Engineering Simulation Program		6317-031	439									.G320-0821	PC,XT,AT+8087+FORTRA	.05H
-Engineering/Scientific Support Sys-Entry	E/S3-Entry	5750-ESE	varies									.G520-0118	Replaced by VME53	.V0ST
+Expert System Consultation Environment		5798-DXA	25000			1250						.G325-0040	MVS	.25H
Expert System Consultation Environment	ESCE	5798-RWP	25000			1250						.G320-0828	VM	.25H
+Expert System Development Environment		5798-DXB	35000			1750						.G325-0040	MVS Consultation env	.25H
Expert System Development Environment	ESDE	5798-RHQ	35000			1750						.G320-0828	ESCE	.25H
-Financial Planning and Report Generating		5796-ZHT	385									.GB30-2340	UCSD p-System tm R/D	.15X
Funds Allocation System	FAS	5796-PYZ	27000									.G320-9222	MPSX+PL/I Transients	.25H
Info Sys for Attny - Controller System	Series 900	5793-AEF	175									.GB30-6001	System/36 PC	.05H
Info Sys for Attnys Upgr from 5793-AFZ	Series1000	5793-AFX/01	2100									.4535		.05H
Info Sys for Attnys Upgr from 5793-AGA	Series 900	5793-AFY/01	1600									.4535		.05X
Info Sys for Attorneys - Accts Payable	Series1000	5793-AFX	3500									.GB30-6012	5793-ABA	.05H
Info Sys for Attorneys - Accts Payable	Series 900	5793-AFY	2275									.GB30-6011	5793-AEF	.05H
Info Sys for Attorneys - Accts Payable	Series 800	5793-AFZ	1750									.GB30-6012	5793-ACJ	.05H
Info Sys for Attorneys - Accts Payable	Series 700	5793-AGA	750									.GB30-6011	5793-AEB	.05H
Info Syst for Attny - Accts Rec & Coll	Series 900	5793-AEL	575									.GB30-6001	Lawyer Finance Mgt	.05H

Program Title	Short Name	Number	OTC	ILC	MLC	DSO	DSI	DSM	MLP	HML	Mo	MoreInfo	Environment	TPLS
Info Syst for Attny - Accts Rec & Collec	Series 700	5793-ADZ	200									.GB30-6000	Client Finance Mgt	05H
Info Syst for Attny - Client Finance Mgt	Series 700	5793-AED	2250									.GB30-6000	Controller System	05H
Info Syst for Attny - Client Finance Mgt	Series 900	5793-AEQ	6400									.GB30-6001	Controller	05H
Info Syst for Attny - Client Statements	Series 700	5793-ADY	100									.GB30-6000	Client Finance Mgt	05H
Info Syst for Attny - Client Statements	Series 900	5793-AEK	250									.GB30-6001	Finance Mgt	05H
Info Syst for Attny - Client/Matter Recd	Series 700	5793-ADT	500									.GB30-6000	Controller	05H
Info Syst for Attny - Client/Matter Recd	Series 900	5793-AEG	1375									.GB30-6001	Client Finance Mgt	05H
Info Syst for Attny - Conflict Interest	Series 700	5793-ADM	750									.GB30-6000	Client/Matter Record	05H
Info Syst for Attny - Conflict Interest	Series 900	5793-AEH	2275									.GB30-6001	Client/Matter Record	05H
Info Syst for Attny - Law Firm Finance	Series 700	5793-AEB	1000									.GB30-6000	Controller System	05H
Info Syst for Attny - Law Firm Finance	Series 900	5793-AEP	2860									.GB30-6001	ContrlrClient Fin	05H
Info Syst for Attny - Lawyer Finan Mgt	Series 900	5793-AEN	2290									.GB30-6001	ContrlrClient Fin	05H
Info Syst for Attny - Lawyer Finance Mgt	Series 700	5793-AEA	750									.GB30-6000	Client Finance Mgt	05H
Info Syst for Attny - Library Management	Series 900	5793-AET	2850									.GB30-6001	Controller	05H
Info Syst for Attny - Litigation Support	Series 900	5793-AER	2850									.GB30-6001	Controller	05H
Info Syst for Attny - Research/Retrieval	Series 900	5793-AEM	2850									.GB30-6001	Controller	05H
Info Syst for Attny - Stat Dates (Docket)	Series 700	5793-ADX	750									.GB30-6000	Client/Matter Record	05H
Info Syst for Attny - Stat Dates (Docket)	Series 900	5793-AEJ	2275									.GB30-6001	Client/Matter Record	05H
Info Syst for Attny - Upgr from 5793-ADR	Series 900	5793-AEF/01	20									.GB30-6001	4501	05H
Info Syst for Attny - Upgr from 5793-ADT	Series 900	5793-AEG/01	925										4517	05H
Info Syst for Attny - Upgr from 5793-ADM	Series 900	5793-AEH/01	1600									.GB30-6001	4515	05H
Info Syst for Attny - Upgr from 5793-ADX	Series 900	5793-AEJ/01	1600									.GB30-6001	4513	05H
Info Syst for Attny - Upgr from 5793-ADY	Series 900	5793-AEK/01	160									.GB30-6001	4511	05H
Info Syst for Attny - Upgr from 5793-ADZ	Series 900	5793-AEL/01	395									.GB30-6001	4509	05H
Info Syst for Attny - Upgr from 5793-AEA	Series 900	5793-AEM/01	1615									.GB30-6001	4507	05H
Info Syst for Attny - Upgr from 5793-AEB	Series 900	5793-AEP/01	1960									.GB30-6001	4505	05H
Info Syst for Attny - Upgr from 5793-AED	Series 900	5793-AEQ/01	4375									.GB30-6001	4503	05H
Info Syst for Attorneys - Controller Sys		5793-ADR	175									.GB30-6000	System/36 PC	05H
+ISPF/PC II Development Facility	EZ-VU II	6317-026	495									.G520-6006	Runtime (6317025)	05G
+ISPF/PC II Development Subscriber Update	EZ-VU II	6265-484	30									.G520-6006	6317026	05G
+ISPF/PC II Devt Nonsubscriber Updates	EZ-VU II	6265-485	55									.G520-6006	6317026	05G
+ISPF/PC II Runtime Facility	EZ-VU II	6317-025	59									.G520-6006	All except PCjr	05G
+ISPF/PC II Runtime Nonsubscrbr Updates	EZ-VU II	6265-487	55									.G520-6006	6317025	05G
+ISPF/PC II Runtime Subscriber Updates	EZ-VU II	6265-486	30									.G520-6006	6317025	05G
IX CONNEXION Compiler (DIBOL tm)		6317-043	850									.G320-0912	PC/IX	05H
IX CONNEXION Compiler (DIBOL tm)		6317-062	975									.G320-0912	XENIX tm	05H
IX CONNEXION Runtime (DIBOL tm)		6317-044	425									.G320-0912	6317043	05H
IX CONNEXION Runtime (DIBOL tm)		6317-063	500									.G320-0912	6317062	05H
IX UltraCalc (R)		6317-039	350									.G320-0975	PC/IX	05H
IX UltraCalc (R)		6317-040	395									.G320-0975	XENIX tm	05H
+Javelin tm		6086-012	695									.GB30-2037	PC,XT,AT,3270-PC	05Y
Law Firm Financial Management	Attorney	5793-ABA	4800									.GB30-2151	5793-ABZ	05X
Law Firm Financial Management Series 800	Attorneys	5793-ACJ	2200									.GB30-2415	System/36+5793-ABZ	05H
Law Firm Financial System	Manac	6187-250	450									.GB30-2037	PC,XT,AT	05Y
Law Firm Library Management	Attorney	5793-ABJ	6270									.GB30-2160	5793-ABZ	05X
Lawyer Financial Management	Attorney	5793-ABB	3870									.GB30-2151	5793-AAZ+ABZ	05X
Lawyer Financial Management Series 800	Attorneys	5793-ACK	1650									.GB30-2415	S/36+5793ACH+ABZ	05H
Legal Billing		5798-RNG	550									.GB30-2095	Displaywriter	15X
Legal Diary System	LDS	5796-BTT	49500										CICS/OS/VS	25X
-Legal Extended Spelling Dictionary		5608-SRB	195										Textpack 6	05E

Program Title	Short Name	Number	OTC	ILC	MLC	DSO	DSI	DSM	MLP	MML	Mo	MoreInfo	Environment	TPLS	
LISP		5798-DQZ	7150		325							.G320-0349	VM	25H	
Litigation Support	Attorney	5793-ABK	6270									.GB30-2160	5793-ABZ	OSX	
Litigation Support Version B		6187-318	450									.GB30-2037	XT,AT	OSY	
Mathematical Linear Programming Extended	MPSX	5740-XM3	16170		735							.GH19-1090	OS/VS,MVS/XA,XT/370	11B	
Mathematical Linear Programming Extended	MPSX	5746-XM2	14100		641							.GH19-1090	DOS/VS	11B	
Matrix Generator Report Writer for MPSX	MGRW	5734-XMC	14100		641							.GH19-5012	OS/MFT/MVT	11B	
Mixed Integer Programming Feature - MPSX	MIP	5740-XM3/01	14100		641							.GH19-1090	6038,6217,6039	11B	
Mixed Integer Programming for MPSX	MIP	5746-XM2/01	12120		551							.GH19-1090	6038,6143	11B	
Office Sys - Disbursements from Phone	Attorney	5793-ABY	2200									.GB30-2170	5793-AAZ+ABZ	OSX	
Office System - Financial Schedules	Attorney	5793-ABN	2640									.GB30-2166	5793-ABZ	OSX	
Office System - Mailings	Attorney	5793-ABP	1760									.GB30-2166	5793-ABZ	OSX	
Office System - Time From Displaywriter	Attorney	5793-ABQ	2200									.GB20-2170	5798-AAZ+ABZ	OSX	
Office System - Time from OCR	Attorney	5793-ABW	2200									.GB30-2170	5793-AAZ+ABZ	OSX	
PC Interactive Executive	PC/IX	1753-369	989									.GH20-6247	PC,XT,XT/370,AT+10MB	OSE	
PC Interactive Executive Upgrade to 1.1	PC/IX	6317-009	40									.GH20-6247	PC/IX 1.0 6428163	OSE	
Pers DS Plans+ Upgrade Kit (from Plans)		6410-939/01	150									.	Plans	OSG	
Personal Decision Series - Adviser		6410-941	65									.	Data Edition	OSG	
Personal Decision Series - Appoint Clndr		6410-946	75									.	Data Edition	OSX	
Personal Decision Series - Attachment/36		6316-972	165									.GH30-0757	PC,PCC,XT+Data Editn.	OSG	
Personal Decision Series - Attachmt/370		6316-971	219									.GH30-0760	Upgrade to 6467046	OSG	
Personal Decision Series - Client Time		6410-945	75									.	Data Edition	OSX	
Personal Decision Series - Data Edition		6410-936	275									.GH30-9012	All ex PCjr+DOS2 up	OSG	
Personal Decision Series - Data Edition		6466-983	275									.GH30-9012	3.5" drive	OSG	
Personal Decision Series - Data Training		6410-947	79									.	Data Edition	OSG	
Personal Decision Series - Graphs Editn		6403-821	225									.GH30-9012	3.5" drive	OSG	
Personal Decision Series - Graphs Editn		6410-938	225									.	Data Edition+color	OSG	
Personal Decision Series - Mailing Label		6410-942	75									.	Data Edition	OSX	
Personal Decision Series - Plans Edition		6410-939	165									.	Data Edition	OSG	
Personal Decision Series - Plans Edition		6466-986	165									.GH30-9012	3.5" drive	OSG	
Personal Decision Series - Plans+ Editn		6410-972	335									.	Data Edition	OSG	
Personal Decision Series - Plans+ Editn		6466-987	335									.GH30-9012	3.5" drive	OSG	
Personal Decision Series - Prospect Trac		6410-944	75									.	Data Edition	OSX	
Personal Decision Series - Reports+ Edit		6466-984	165									.GH30-9012	3.5" drive	OSG	
Personal Decision Series - Reports+ Edtn		6410-937	165									.	Data Edition	OSG	
Personal Decision Series - Words Edition		6410-940	165									.	Data Edition	OSG	
Personal Decision Series - Words Edition		6466-985	165									.GH30-9012	3.5" drive	OSG	
Personal Decision Series, Upg to Plans+		6317-004	170									.	Plans	OSZ	
Professional Office System PC Support		5664-309/01	6000			300	4500					.	4766,4769,6569,6572	T0UM	
Professional Office System 2.1, 2.2	PROFS	5664-309	22000			995	16500	225					.GH20-6795.VM	T2SE	
PROFS Personal Computer Connection to VM	PROFS/PC2	6410-984	219									.G320-0652	PROFS+ISPF/PC+DOS2+	OSH	
Programmed Eval of Contract Option Strat		6276-614	250										PC,XT,jr,AT,3270-PC	OSR	
Project Scheduler 5000		6871-485	285									.GB30-2037	PC,XT	OSY	
Research Queueing Package	RESQ	7798-RSQ	7800										VM, MVS	OSE	
Sign Master tm (Feature 9242) Ver 5.05		6187-183	245									.GB30-2037	PC,XT,3270-PC,AT	OSY	
STAIRS/VS Thesaurus Generator	RPQ-P71045	5799-AQL	4220		192							.GH20-1908	OS/VS+STAIRS	15C	
STAIRS/VS Thesaurus Retrieval	RPQ-P71044	5799-AQK	10070		458							.GH20-1908	OS/VS+5799-AQL	15B	
STAIRS/VS Training Course		5796-PLF	3300		250							.G320-6078	IIS,IIPS	1EH	
STATLIB 1		6276-501	150										PC,XT,jr,AT+APL	OSR	
STATLIB 2		6276-539	150										PC,XT,jr,AT+APL	OSR	
Statutory Dates (Docket) Series 800	Attorneys	5793-ACP	1650										.GB30-2415	S/36+5793ABZ+ACR	OSH

<u>Program Title</u>	<u>Short Name</u>	<u>Number</u>	<u>OTC</u>	<u>ILC</u>	<u>MLC</u>	<u>DSO</u>	<u>DSI</u>	<u>DSM</u>	<u>HLP</u>	<u>MML</u>	<u>Mc</u>	<u>MoreInfo</u>	<u>Environment</u>	<u>TPLS</u>
Storage & Information Retrieval System	STAIRS	5664-189		1650	575		1235	375				.GH12-5147	VM+ISPF,XT/37C	ISM
Storage & Information Retrieval System	STAIRS/VS	5740-XR1	28160		1280							.GH12-5114	OS/VS,CICS/VS,IMS/VS	25B
Storage & Information Retrieval System	STAIRS/VS	5746-XR4	22990		1045							.GH20-1832	CICS/DOS/VS	25B
System A - An Application Analyzer	APAX	5785-GCC	16940		770							.G320-9233	MVS,VM	15H
Thoughtware (R) Sampler		6187-217	19									.G830-2037	PC,XT,PCjr+DOS2	05Y
TRY-COPICS	COPICS	7798-COP	nc										Information Network	NOSC
Utilities I		6276-517	20										PC,XT,jr,AT,3270-PC	05R
Utilities II		6276-520	20										PC,XT,jr,AT,3270-PC	05R
Utilities III		6276-574	20										PC,XT,jr,AT,3270-PC	05R
Virtual Machine Interactive Executive	VM/IX	5799-BXN	47000									.GH20-6410	VM+STIPS (5799-BXN)	35E
Virtual Machine Productivity System	VMPS	7798-VMP	nc										Information Network	NOSC
VM Programming in Logic		5785-ABH	8000									.G320-9228	VM	25H
VM/SP System Base Rel 2	IPO	5750-ES1	varies									.G520-0118	VM	V05M
WESTLAM (R) Communications Session Mgr		6428-162	350									.G520-3917	PC	05X

Program Title	Short Name	Number	QTC	ILC	MLC	DSO	DSI	DSH	MLP	HML	Ho	MoreInfo	Environment	TPLS
KCADAM (R) Interactive Design Version 2		5668-840	70000		1710							6320-6063	VM,05/VS+3250/5080	T15E
-Data Capture / Edit for Bar Code		5798-RHP	1815		165							12.6B30-1708	Series/1	15X
-Diskette Copy		5796-PNT	781		71							12.6320-6406	VM/CMS	15H
DPPX Data Capture and Management System	DCMS	5760-XR6	2440		139	1830		103	31	49		.6H20-2421	DPPX	15X
EDX Data Entry	SIDES	5796-ZDF	6600		300							.6B30-1983	Series/1	15X
-Intelligent Data Entry System	IDES	5798-NPY	759		69							12.6B30-1134	Series/1	15H
-Intelligent Data Entry System II	IDES II	5798-NXQ	2615		119							24.6B30-1352	Series/1	15H
RPS Data Entry System	SIDES	5796-ZDE	6600		300							.6B30-1983	Series/1	15X
-Video Reverse Extract Offline Data Entry		5798-CJG	1690		154							12.6B21-1843	D0S/VS VIDEO/370	15H
-Video Reverse Extract Offline Data Entry		5798-CJP	1690		154							12.6B21-1843	0S/VS VIDEO/370	15H
Video/VS		5796-PYT	18700									.6320-9212	VSE+CICS	15H
Video/VS		5796-PYX	24200									.6320-9212	MVS+CICS	15H
VIDEO/370 CICS Feature D0S		5736-RC3/01	1800		68	1350			51	19	31	GC28-8313	4510,4514,6504,6500	05C
VIDEO/370 CICS Feature 0S		5734-RC5/01	2400		92							GC28-8313	4516	15C
-VIDEO/370 Reverse Extract II		5798-DHD	946	295	86							12.6B21-2893	D0S/VSE	15X
-VIDEO/370 VSE/VSAM Support		5798-DFK	1120									.6B21-2800	5736-RC3/02	15H
-VIDEO/370, VTAM Interface to		5798-CNK	2055		187							12.6B21-2025	0S/VS	15H
Visual Data Entry Online System/370	VIDEO/370	5734-RC5	8100		308							GC28-8313	0S/MFT/MVT/VS	15C
Visual Data Entry Online System/370	VIDEO/370	5736-RC3	5600		212	4200		159	75	120		GC28-8313	D0S,D0S/VS	15C

Program Title	Short Name	Number	OTC	ILC	MLC	DSO	DSI	DSH	HLP	HML	Mo	MoreInfo	Environment	TPLS
Accounts Payable - Disk	BMAS	5715-XZ3	1790									.G280-0231	Sys/23 Datamaster	1IX
Accounts Payable Mgmt Info Multi Ind	BMAS	5715-XX3	1225									.GB30-2744	Sys/23 Datamaster	1IX
Accounts Receivable - Disk	BMAS	5715-XZ4	1790									.G280-0230	Sys/23 Datamaster	1IX
Accounts Receivable Mgmt Info Multi Ind	BMAS	5715-XX4	1225									.GB30-2722	Sys/23 Datamaster	1IX
<u>Asynchronous Communications</u>		5715-AC1	600									GC34-0430	Sys/23 Datamaster	1IX
Attorneys Info System 5247 Disk Support		5796-ZBH/01	750									.GB30-2029	5022	1IX
BASIC Self-Study Course		5796-ZBH	550									.GB30-1914	Sys/23 Datamaster	15X
BASIC 5110/5120 to Sys/23 Conversion Aid		5715-CV1	875									GC34-1693	Sys/23 Datamaster	1IE
Billing - Disk	BMAS	5715-XZ7	1790									.G280-0229	Sys/23 Datamaster	1IX
<u>Billing Mgmt Info Multi Ind</u>	BMAS	5715-XX7	1225									.GB30-2700	Sys/23 Datamaster	1IX
Binary Synchronous Communications		5715-BC1	850									GC34-0431	Sys/23 Datamaster	1IX
Business Report Application Development	BRADS III	5715-RG2	1365									.G280-0237	Sys/23 Datamaster	1IX
Chained File DL/I Bridge		5748-XX3	14740		576							.GH12-5116	DOS/VS, OS/VS	15B
Client Accounting		5715-CA1	2230									.GB30-2796	Sys/23 Datamaster	1IE
<del>Construction Info System - Accts Payable</del>		5796-ZDX	2310									.GB30-2082	Datamaster+5247	15X
<del>Construction Info System - General Ledger</del>		5796-ZDZ	2145									.GB30-2082	Datamaster+5247	15X
<del>Construction Info System - Job Costing</del>		5796-ZDY	2145									.GB30-2082	Datamaster+5247	15X
<del>Construction Info System - Payroll</del>		5796-ZDW	2420									.GB30-2082	Datamaster+5247	15X
<del>Construction Information - Accts Payable</del>		5796-ZAR	1815									.GB30-1728	Sys/23 Datamaster	1IH
<del>Construction Information - Genl Ledger</del>		5796-ZAT	1705									.GB30-1728	Sys/23 Datamaster	1IH
<del>Construction Information - Job Costing</del>		5796-ZAP	1705									.GB30-1728	Sys/23 Datamaster	1IH
<del>Construction Information - Payroll</del>		5796-ZAQ	1925									.GB30-1728	Sys/23 Datamaster	1IH
General Ledger - Disk	BMAS	5715-XZ2	1790									.G280-0232	Sys/23 Datamaster	1IX
General Ledger Mgmt Info Multi Ind	BMAS	5715-XX2	1225									.GB30-2733	Sys/23 Datamaster	1IX
<u>Inventory Accounting - Disk</u>	BMAS	5715-XZ6	1790									.G280-0233	Sys/23 Datamaster	1IX
Inventory Accounting Mgmt Info Multi Ind	BMAS	5715-XX6	1225									.GB30-2711	Sys/23 Datamaster	1IX
Payroll - Disk	BMAS	5715-XZ5	1790									.G280-0234	Sys/23 Datamaster	1IX
Payroll Mgmt Info Multi Ind	BMAS	5715-XX5	1225									.GB30-2755	Sys/23 Datamaster	1IX
Print Spool		5715-SP1	175									GC34-0500	Sys/23 Datamaster	1IX
<u>Textbook Order Control</u>		5798-RLC	1400									.GB30-1905	Sys/23 Datamaster	15X
<del>Travel Agency Management and Accounting</del>		5796-ZEY	11000		500							.GB30-2305	Sys/23 Datamaster	15H
VERSAPLAN		5798-RLG	165									.GB30-1925	Sys/23 Datamaster	1IX
Word / Text Processing		5715-HP1	500									GC34-0417	Sys/23 Datamaster	1IE
Word Processing II		5715-HP2	850									GC34-0497	Sys/23 Datamaster	1IX



## Decision Support and Query

**A new Cluster**—in recognition of a major trend beginning in this decade. Namely, that knowledge-working professionals will demand hands-on (direct) access to the information resources, analytical power and presentation variety of the modern computer. The usage will not be administrative or support—in the normal sense but instead will produce a *leveraged extension* of the user's experience, memory and intellect. An *enormous potential* exists for a) making the professional more productive, and b) reclaiming a little time to encourage the pursuit of creative and fulfilling endeavor.

Principal components of a Decision Support System are:

- Information (data) base
- Query and retrieval
- Programming languages, simple to complex
- Problem analysis tools, aids and models
- Solution synthesis models, constructs and tools
- Presentation services e.g. graphics
- Communications with associates and other computers

Some of the data manipulation and analytical techniques with practical promise are treated in these disciplines:

- Meteorology Economics
- Statistical Sampling
- Industrial Engineering
- Customer Cost, Profit and Contribution Allocation
- Strategy Quantification
- Alternatives Evaluation
- Game Theory, Competitor Evaluation and Prediction
- Operations Research
- Demographics
- Behavior Analysis, Sectional Profiling
- Market and Marketing Research
- Artificial Intelligence

Some of the solution synthesis and evaluation devices are:

- Statistical (and Probability) Forecasting
- Econometrics
- Queueing Theory

- Linear Programming
- Optimization
- Blending
- Operations Research
- Management Theory
- Ergonomics
- Expert Systems
- Project Management
- Simulation, Modeling

To use these powerful tools sensibly we must provide the professional with—not just data, but a sizeable *information base* plus associated browse, query, search, retrieve, compose and edit facilities.

Going beyond browse and query brings to the professional a *choice of interactive languages* with which he may express his intellectual concepts and shape his computing environment. Professionals almost never want to 'do my own programming'; and that's the way it should be. However the professionals nearing the leading edges of decision support utilization *are* doing several things that yield results remarkably similar to conventional programming.

These professionals are learning new techniques to construct a computerized (programmed) expression of their logic or

concept of a situation. The most popular example of this is the application generator that has been simplified and demystified. Two of the best for a S/370 are CSP and ISPF. For the PC there are several: The Data Edition and Reports Edition of the Personal Decision Series are definitely professional-grade in view of functional richness. BASIC is a programming language, of course; but it is simple to learn a small subset that is entirely non-threatening. In fact the Personal Decision Series recognizes this and encourages the addition of one's own BASIC statements within the architecture.

Next, the professional is provided highly responsive (conversational) communications linkage to information sources and associates—eventually including the media technologies: audio, image, video, graphics, text and data.

Finally, we use the computer plus very powerful software to *present* solutions to the user in new and alternate formats, i.e. combinations of the six media technologies above. This yields an advantage to his productivity because: a) The organization of the output will match *his* intellectual concept of an expected solution. b) Presentation of alternate viewpoints of the *same* solution results in a finely tuned solution—or perhaps an occasional creative insight.

Program Title	Short Name	Number	OTC	ILC	MLC	DSQ	DSI	DSM	MLP	MML	Mo	MoreInfo	Environment	TPLS	
A Departmental Reporting System	ADRS/PC	6428-092	355									.GH20-0023	PC	05X	
-Advanced Statistical Analysis	ASTAP	5796-PBH			1350							24.G320-8063	OS/MFT/MVT/V5	21H	
APL		6024-077	195									G520-1107	PC,XT	05Z	
APL Data Interface	APLDI/PC	6410-978	355									.G520-3917	PC,XT+8087+6024-077	05H	
-APL Econometric Planning Language	EPLAN	5796-PDH	2705		246							12.G320-5535	APLSV	11H	
Application Development Facility	IMS/ADF	5796-PHX	21290	851									Replaced by 5668-937	15X	
*Application System Release 4	AS	5767-001	60000	30000	2000								GE45-5000.MVS,VM+GDDM	.15E	
+Attachment/370+		6317-047	300										.GH30-0760	PC,XT,AT,3270-PC/AT	05G
+Attachment/370+ Upgrade from 6316971		6467-046	101										GH30-0760	Attach 370 Edition	05G
Business Analysis / BASIC		5734-YMB	1890		69								.GH20-1175	DOS/VSE	15C
Business Professional System	BPS	5750-AAL	varies										G520-0007	VM/SP	V
C (programming language compiler)		6871-466	350										.GH30-2037	PC,XT,3270-PC	05Y
CADAM (R) Express	IPO	5750-VME	varies										GH20-6487	VM,5080 or 3250	V15E
CADAM (R) Express - Base		5664-286	126000	8560	3315								GH20-6487	5750-VME	15E
CADAM Express Versaplot Color Random		5664-286/01	6250											4532	15E
CADAM Express Workstation Extension		5664-286/02	97720	30330	1185	2362016850								2113,4527,4528	15E
CMS Fundamentals II		5798-DGJ	1980	360	120								.0B21-2855	I15,I1PS	15E
-Color Text Presentation Facility		5798-DMZ	1210										.0B21-3086	3279+GDDM+5748-AP1	15X
-Continuous System Modeling - APL	CSMP	5785-KAE	2285		104							24.G320-6081	5748-AP1	15H	
Continuous System Modeling Program III	CSMP	5734-XS9	2705		123								.GH19-7000	V51/V52/VM	11C
Cooperative Viewing Facility Version 2	CVIEW	5664-296	5280		330								.G520-6005	VM	25A
Corporate Cash Manager	CCM	5601-006	4400										.GH20-0391	PC,XT	05H
Cross System Product / Application Exec.	EZ-Run	6317-010	135										.G520-6004	PC,XT,AT,XT/370,3270	05G
Cross System Product / Query	CSP/Q	5668-918	9656		460	8688		345	15	24			.GH24-5048	5668-944+945+VSE,SSX	15K
Cross System Product/Application Generat	EZ-Prep	6317-011	1319										.G520-6004	EZ-VU Runtime	05G
CSMP III - Graphics Feature		5734-XS9/01	9305		423								.GH19-7000	6065,6097	11C
CSP/Query CICS/OS/V5 Feature		5668-918/01	7140	584	5352		408	15	24				.4680,4681,6570,6571	25K	
CVIEW Upgrade from Version 1 to 2		5664-296/01	1375											5298,5299	25A
Data Extract	DXT	5668-973		3840	640		2880	480	37	59			GC26-4070	MVS,MVS/XA+DFP	2LK
DCF Foreground - CMS TSO ATMS III	SCRIPT/V5	5748-XX9/01		180	60								GH20-9158	6043,2107	15E
Decision Support / VSE 1.1	DS/VSE	5666-311	3075	182	2770		164	19	31				GC33-6212	SSX,VSE	25K
Development Management System / CICS	DMS/CICS	5746-XC4	4730	330	3545		164	54	88				.GH20-2195	CICS/V5/D05	15K
Distributed Office Support System Ver 3	DISOSS	5665-290		4570	1485		34251110	223	357				GC30-3085	CICS/V5+MVS,XA	25K
Distributed Office Support System Ver 3	DISOSS	5666-270		1710	570		1275	425	176	282			GC30-3085	CICS/V5+VSE	25K
DMS/CMS XT/370		5748-XXB/01	144		4									3005,3009	05C
Document Composition Facility XT/370	Script	5748-XX9/02	864		19									3003,3008	05C
Document Composition Training	DCF	5796-PNE	1320										.G320-6331	I15,I1PS	15H
Dynamic Simulation Language/V5	DSL/V5	5798-PXJ	10000		454								.G320-0357	VM,MVS,XT/370	15K
E/S (3) PF Release 2	IPO	5664-283	2000		107	1800							G520-0118	E/S (3)	25H
EDX Query	QUERY	5719-XR1	792		28								GC34-0457	5719-MS2	15X
EDX Videotex System SVS/1	RPQ-P82696	5799-TFN	13750										G520-5992	Series/1	15X
ENERGRAPHICS tm		6187-234	350										.GB30-2037	PC,XT,3270-PC+color	05Y
ENERGRAPHICS tm Plotter		6187-236	100										.GB30-2037	ENERGRAPHICS+Plotter	05Y
Engineering Simulation Program		6317-031	439										.G320-0821	PC,XT,AT+808/+FORTRA	05H
-Engineering/Scientific Support Sys-Entry	E/S3-Entry	5750-ESE	varies										G520-0118	Replaced by VMES3	V05I
Executive Data Link to PC	MAPICS	5798-RRQ	2750										.GB30-2392	System/34+PC	15X
Executive Data Link to PC	MAPICS	5798-RRR	2750										.GB30-2393	System/36+PC	15X
+Expert System Consultation Environment		5798-DXA	25000		1250								.G325-0040	MVS	25H
Expert System Consultation Environment	ESCE	5798-RHP	25000		1250								.G320-0828	VM	25H
+Expert System Development Environment		5798-DXB	35000		1750								G325-0040	MVS Consultation env	25H

Program Title	Short Name	Number	OTC	ILC	MLC	DSO	DSI	DSH	MLP	MML	Mo	MoreInfo	Environment	TPLS	
Expert System Development Environment	ESDE	5798-RWQ	35000		1750							.G320-0828	ESCE	.2SH	
Filing Assistant		6024-145	165									.G320-3917	PC,XT,PCjr,PPC	OSZ	
Financial Management System		5666-263		3090	1180		2315	888	125	201		.GH19-6196	VSE-DL/I+COBOL	2SK	
-Financial Planning and Modeling		5796-ZFD	2970									.GB30-2249	System/38	1SX	
-Financial Planning and Report Generating		5796-ZHT	385									.GB30-2340	UCSD p-System tm R/D	1SX	
-Forecasting & Time Series Analysis - APL		5796-PFX	4620		420						12.	.G320-5664	APLSV,APL/CMS,VSAPL	11H	
FORTRAN (on eight-inch diskette)	XENIX tm	6294-124	595						73	11	17	GC22-9194	System 9000+XENIX	OSE	
FORTRAN (on 5.25-inch diskette)	XENIX tm	6294-125	595									GC22-9194	System 9000+XENIX	OSE	
FORTRAN Compiler Version 2		6024-127	385									6520-3917	DOS2+	OSZ	
FORTRAN Interactive Debug		5734-F05	3600		256							GC26-3983	5734-F01,5748-F03	1SB	
FORTRAN IV (G1)		5734-F02			98							GC28-6884	05/TSO/CMS	1SK	
FORTRAN VS Compiler & Library 4.1		5748-F03		747	249		558	186	17	27		GC26-4114	MVS,XA,VM,VSE,VM/PC	1SK	
FORTRAN 77 Interactive Compiler	INfort	6410-971	275									.G320-0345	PC/IX	OSH	
-GDDM Graphics Productivity Option		5796-PRZ	1320									.G320-9142	5748-XXH	1SX	
GDDM Interactive Map Definition	GDDM/IMD	5748-XXH/02		767	214		575	161	22	35		GC33-0100	6084,2101,6503,2301	1SK	
GDDM Presentation Graphics Feature	GDDM/PGF	5748-XXH/01		767	162		575	121	36	58		GC33-0100	6049,2102,6500,2302	1SK	
-General Purpose Simulation System	GPSS-APL	5796-PJG	2175		99						24.	.G320-5745	5748-AP1	1IH	
-General Purpose Simulation System	GPSS	5796-PNN	3585		163						24.	.G320-6398	VM/CMS,MVS+PL/I	1SH	
General Purpose Simulation System V	GPSS	5734-X52	1515		69							.GH20-0825	05,05/VS	1IC	
General Purpose Simulation System V	GPSS	5736-X53	1515		69							.GH20-0826	DOS,DOS/VS	1IC	
Generalized Information System	RPQ-8T0139	5799-ALX			589							.GH19-0082	DOS/VS,DL/I	1SX	
Generalized Information System - VS	GIS/VS	5740-XX7			1340			1005	92	147		.GH20-9035	05/VS	2SK	
GIS/VS Advanced Query Feature		5740-XX7/01			419			314	28	45		.GH20-9035	6012	2SK	
GIS/VS Modify Feature		5740-XX7/03			207			155	14	22		.GH20-9035	6018	2SK	
GIS/VS Update & Create Feature		5740-XX7/02			885			663	58	93		.GH20-9035	6015	2SK	
+Golden Common LISP (R)		6205-279	495									.GB30-2037	PC,XT,AT	0SY	
Graphic Data Display Manager	GDDM/Base	5748-XXH		767	159		575	120	36	58		GC33-0100	VM,CICCS,IMS,MVS	1SK	
Graphical Display and Query Facility 1.3	GDQF	5668-905	20000	1365	455							.MVS,VM+GDDM+3270		1SE	
+Graphics Attachment 3277GA, 5080	RPQ-P09013	5799-AXX	4000		150							.GH20-2146	VM/CMS,MVS/TSO	1SE	
Graphpak Full Screen Interface		5796-PPH	858		65							.G320-6692	05/VS,VM,VSAPL	1SH	
IBM DATABASE 2 Release 2	DB2	5740-XYR		16050	2675		12036	2006	374	598		GC26-4073	MVS,XA+DFP+ISPF	2SK	
Info Center/1		5668-897	22000		1390	18000		1040				.GH20-0398	VM,MVS	1SE	
INTELLECT tm		5796-PMA	42000		2245							.G320-9161	VSE+5748-XXJ+PL/I	2SX	
INTELLECT tm		5796-PMC	57000		3050							.G320-9161	MVS+PL/I	2SH	
INTELLECT tm		5796-PME	57000		3050							.G320-9161	VM+PL/I	2SH	
INTELLECT tm		5796-PYH	57000		3050							.G320-0161	VM+SQL/DS	2SH	
INTELLECT tm		5796-PYJ	12375		663							.G320-0161	VM+PL/I+GDDM+SQL/DS	2SH	
INTELLECT tm Graphics		5796-PNB	12375		663							.G320-9161	SQL/DS+CICCS/VSE	2SH	
INTELLECT tm Graphics Support		5796-PND	12375		663							.G320-9161	MVS+GDDM/PGF+5796PMC	2SH	
INTELLECT tm Graphics Support		5796-PNF	12375		663							.G320-9161	VM+GDDM/PGF+5796-PME	2SH	
Interactive Executive for System/370	IX/370	5667-126	10000							495	792	GC33-6207	VM+Series/1	T2SK	
-Interactive Query & Report Processor	IQRP	5796-PDG	32890		1495							24.	.G320-1544	05/VSI,VS2	1SH
Interactive System Productivity Facility	ISPF 1.1	5668-960		960	96		720	70	15	24		.GC34-2078	CICCS/VSE+ICCF	1SK	
Interactive System Productivity Facil.2.2	ISPF	5664-282		575	189		431	141	9	14		.GC34-2181	VM	1SK	
ISPF Program Development Facility 1.1	ISPF/PDF	5666-281		960	150		720	111	15	24		.GC34-2078	VSE+ICCF	1SK	
ISPF Program Development Facility 2.2	ISPF/PDF	5664-285	10450	3780	540	9405	2835	404	10	16		.GH34-2181	VM	1SK	
+ISPF/PC II Development Facility	EZ-VU II	6317-026	495									.6520-6006	Runtime (6317025)	0SG	
+ISPF/PC II Development Subscriber Update	EZ-VU II	6265-484	30									.6520-6006	6317026	0SG	
+ISPF/PC II Devt Nonsubscriber Updates	EZ-VU II	6265-485	55									.6520-6006	6317026	0SG	
+ISPF/PC II Runtime Facility	EZ-VU II	6317-025	59									.6520-6006	All except PCjr	0SG	

Program Title	Short Name	Number	OTC	ILC	MLC	DSO	DSI	DSM	MLP	MHL	Mo	MoreInfo	Environment	TPLS
+ISPF/PC II Runtime Nonsubr Updates	EZ-VU II	6265-487	55									G520-6006	6317025	05G
+ISPF/PC II Runtime Subscriber Updates	EZ-VU II	6265-486	30									G520-6006	6317025	05G
IX CONNEXION Compiler (DIBOL tm)		6317-043	850									G320-0912	PC/IX	05H
IX CONNEXION Compiler (DIBOL tm)		6317-062	975									G320-0912	XENIX tm	05H
IX CONNEXION Runtime (DIBOL tm)		6317-044	425									G320-0912	6317043	05H
IX CONNEXION Runtime (DIBOL tm)		6317-063	500									G320-0912	6317062	05H
IX INFORMIX Embedded Query for C		5796-TBD	9000									G320-0803	IX-INFORMIX	15H
IX INFORMIX Embedded Query for COBOL		5796-TAY	9000									G320-0803	IX/COBOL	15H
IX UltraCalc (R)		5796-TAH	10000									SH20-6938	IX/370	15H
IX UltraCalc (R)		6317-039	350									G320-0975	PC/IX	05H
IX UltraCalc (R)		6317-040	395									G320-0975	XENIX tm	05H
+Javelin tm		6086-012	695									GB30-2037	PC,XT,AT,3270-PC	05Y
MATH - BASIC		5734-XM8	1320		60							GH20-1128	CMS,VSPC	15C
MATH/PC-LIBRARY tm		6187-270	440									GB30-2037	PC,XT,AT,RT	05Y
Mathematical Linear Programming Extended	MPSX	5740-XM3	16170		735							GH19-1090	OS/VS,MVS/XA,XT/370	11B
Mathematical Linear Programming Extended	MPSX	5746-XM2	14100		641							GH19-1090	DOS/VS	11B
Matrix Generator Report Writer for MPSX	MGRW	5734-XMC	14100		641							GH19-5012	OS/MFT/MVT	11B
Mixed Integer Programming Feature - MPSX	MIP	5740-XM3/01	14100		641							GH19-1090	6038,6217,6039	11B
Mixed Integer Programming for MPSX	MIP	5746-XM2/01	12120		551							GH19-1090	6038,6143	11B
Multivariate Time Series Analysis - APL		5796-PLX	4840		440						12	G320-6169	VSAPL	11H
NAG tm FORTRAN PC50 Library		6187-277	345									GB30-2037	PC,XT,AT,RT	05Y
OFFICE/38 - WORKSHEET/38 tm		5710-RRL	2790									GB30-2383	System/38	151
OS FORTRAN IV Library (Mod II)		5734-LM3	8000		131			98	17	27		GC28-6884	OS,OS/VS,VM	15X
OXYCALC (R)		5796-PWG	2790									G320-9167	VM,MVS+GDDM	15X
Pascal (on eight-inch diskette)	XENIX tm	6294-122	595									GC22-9190	System 9000+XENIX	05E
Pascal (on 5.25-inch diskette)	XENIX tm	6294-123	595									GC22-9190	System 9000+XENIX	05E
PC Interactive Executive	PC/IX	1753-369	989									GH20-6247	PC,XT,XT/370,AT+10MB	05E
PC Interactive Executive Upgrade to 1.1	PC/IX	6317-009	40									GH20-6247	PC/IX 1.0 6428163	05E
Pers DS Plans+ Upgrade Kit (from Plans)		6410-939/01	150										Plans	05G
Personal Decision Series - Adviser		6410-941	65										Data Edition	05G
Personal Decision Series - Attachment/36		6316-972	165									GH30-0757	PC,PPC,XT+Data Editn.	05G
Personal Decision Series - Attachmt/370		6316-971	219									GH30-0760	Upgrade to 6467046	05G
Personal Decision Series - Data Edition		6410-936	275									GH30-9012	All ex PCjr+DOS2 up	05G
+Personal Decision Series - Data Edition		6466-983	275									GH30-9012	3.5" drive	05G
Personal Decision Series - Data Training		6410-947	79										Data Edition	05G
+Personal Decision Series - Graphs Editn		6403-821	225									GH30-9012	3.5" drive	05G
Personal Decision Series - Graphs Editn		6410-938	225										Data Edition+color	05G
Personal Decision Series - Mailing Label		6410-942	75										Data Edition	05X
Personal Decision Series - Plans Edition		6410-939	165										Data Edition	05G
+Personal Decision Series - Plans Edition		6466-986	165									GH30-9012	3.5" drive	05G
Personal Decision Series - Plans+ Editn		6410-972	335										Data Edition	05G
+Personal Decision Series - Plans+ Editn		6466-987	335									GH30-9012	3.5" drive	05G
+Personal Decision Series - Reports+ Edit		6466-984	165									GH30-9012	3.5" drive	05G
Personal Decision Series - Reports+ Edtn		6410-937	165										Data Edition	05G
+Personal Decision Series - Reports+ Trng		6410-948	95										Reports+	05G
Personal Decision Series - Words Edition		6410-940	165										Data Edition	05G
+Personal Decision Series - Words Edition		6466-985	165									GH30-9012	3.5" drive	05G
+Personal Decision Series, Upg to Plans+		6317-004	170										Plans	05Z
Problem Statement Language and Analyzer	PSL/PSA	5796-BDX	49500									G320-2719	VM,MVS	15H
Professional Office System	PROFS	5664-176	22000	5000	895	19790	3745	710				GH20-5601	VM	25B

Program Title	Short Name	Number	OTC	ILC	MLC	DSO	DSI	DSM	MLP	MML	Mo	MoreInfo	Environment	TPLS
Professional Office System PC Support		5664-309/01	6000		300	4500		225					.4766,4769,6569,6572	T0UM
PROFS Personal Computer Connection to VM	PROFS/PC2	6410-984	219									.G320-0652	PROFS+ISPF/PC+DOS2+	05H
Project Scheduler 5000		6871-485	285									.GB30-2037	PC,XT	05Y
Query Management Facility	QMF	5666-292		4280	642		3850	577	89	142		GH24-5033	SQ4+5746-XX3+GDDM	25K
Query Management Facility Release 2	QMF	5668-972		6420	1070		4812	802	58	93		GC26-4071	VM,MVS+GDDM+DB2,SQL	25K
+Query.DL/I for CICS/MVS		5785-ECZ	20000									.G320-0839	IMS DB	15H
+Query.DL/I for CICS/VSE		5785-EDA	12500									.G320-0839	DL/I	15H
+Query.DL/I for IMS/V5		5785-ECY	20000									.G320-0839	IMS DB/DC	15H
-Query-By-Example	QBE	5796-PKT	12560		491							.G320-6062	VM/CMS	15X
Query/36		5727-QUL	950		64	835						.G580-0454	System/36	15A
R-BASE (R) SERIES 4000		6871-479	495									.GB30-2037	PC,XT,3270-PC,AT	05Y
Report Management & Distribution System	RMDS	5665-310		5720	858							GC30-3191	MVS+CICS/V5,IMS/V5	15E
*Research Queueing Package	RESQ	7798-RSQ	7800									VM, MVS		05E
Response Time Estimator (Feature 9231)		6316-968	275									.G320-0334	PC,PCjr,XT,3270-PC	05H
RH/CBDOL tm (on eight-inch diskette)	XENIX tm	6294-120	1250									GC22-9267	System 9000+XENIX	05E
RH/CBDOL tm (on 5.25-inch diskette)	XENIX tm	6294-121	1250									GC22-9267	System 9000+XENIX	05E
RPS Query	QUERY	5719-XR2	792		28							GC34-0457	5719-HT1	15X
RS/1 tm	8 CSTU	6317-003	2159									.3209-240	PC+10MB,3270-PC,AT	05G
+RS/1 tm	40 CSTU	5664-316	23000									.G320-0840	VM+GDDM PGF	15E
+RS/1 tm	Unlimited CSTU	5664-316/01	49000									.G320-0840	4731,4732	15E
+RS/1 tm	100 CSTU	5664-316/05	140000									.G320-0840	4731,4732,4733,4734	15E
Screen Definition Facility	SDF	5746-XXT	5345		243	3980		165	44	70		.GH19-6087	V5E or CICS/DOS/V5	15K
Sign Master tm (Feature 9242) Ver 5.05		6187-183	245									.GB30-2037	PC,XT,3270-PC,AT	05Y
SlideWrite		6317-034	225									.G520-1107	All except PCjr	05Z
SQL / Data System - Relational Structure	SQL/DS 3.5	5748-XXJ		464			347	144	230			GH24-5012	DOS/V5E,SSX/V5E,VM	25K
STAIRS/V5 Thesaurus Generator	RPQ-P71045	5799-AQL	4220		192							.GH20-1908	05/V5+STAIRS	15C
STAIRS/V5 Thesaurus Retrieval	RPQ-P71044	5799-AQK	10070		458							.GH20-1908	05/V5+5799-AQL	15B
STAT/PC-LIBRARY tm	IMSL	6187-271	440									.GB30-2037	PC,XT,AT,RT	05Y
Storage & Information Retrieval System	STAIRS	5664-189		1650	575		1235	375				GH12-5167	VM+ISPF,XT/370	15M
Storage & Information Retrieval System	STAIRS-VS	5740-XR1	28160		1280							.GH12-5114	05/V5,CICS/V5,IMS/V5	25B
Storage & Information Retrieval System	STAIRS-VS	5746-XR4	22990		1045							.GH20-1832	CICS/DOS/V5	25B
Structured Query Language/Edit	SQL/DS	5798-DPJ	2750									.G320-9184	SQL/DS	15X
Structured Query Language/Edit	SQL/Edit	5798-DOY	3850									.G320-0348	VM+SQL/DS	15H
System A - An Application Analyzer	APAX	5785-GCC	16940		770							.G320-9233	MVS,VM	15H
The Information Facility	TIF	5665-359		4280	1070							MVS,XA+VTAM+GDDM		25H
The Information Facility	TIF	5798-DLK	20000	4280	1070	18000						GG26-6000	VM	25A
The Information Facility XT/370	TIF	5798-DLK/01	2400		53							3038,3039		05C
The Scientific Desk tm		6187-278	420									.GB30-2037	PC,XT,AT,RT	05Y
TRANSLATOR Burroughs (R) COBOL 1800-1900		5796-PXY	46200									.G320-9204	MVS+ISPF	05H
TRANSLATOR Burroughs COBOL 2000-4900		5796-PYL	46200									.G320-9204	MVS+ISPF	05H
TRANSLATOR Burroughs COBOL 5. 6 & 7000		5796-PYN	46200									.G320-9204	MVS+ISPF	05H
TRANSLATOR Honeywell (R) 200 COBOL		5796-PXZ	46200									.G320-9204	MVS+ISPF	05X
TRANSLATOR Honeywell 2000 COBOL		5796-PYP	46200									.G320-9204	MVS+ISPF	05H
TRANSLATOR Univac (R) System 80 COBOL		5796-PYR	46200									.G320-9204	MVS+ISPF	05H
TRANSLATOR Univac (R) 1100 COBOL		5796-PYQ	46200									.G320-9204	MVS+ISPF	05H
TRANSLATOR Univac (R) 9000 COBOL		5796-PYA	42000									.G320-9204	MVS+ISPF	05H
TRY-COPICS	COPICS	7798-COP	nc										Information Network	NOSC
T3 tm Scientific Word Processing System		6187-281	595									.GB30-2037	PC,XT,XT/370,AT,RT	05Y
-US Geographic Demographic System		5798-DJQ	2365									.GB21-3020	VM/CMS,MVS/TSO,GDDM	15X

Program Title	Short Name	Number	OTC	ILC	MLC	DSO	DSI	DSM	HLP	MHL	Mc	MoreInfo	Environment	TPLS
Videotex/PC (Feature 9230)		6316-967	239									.G520-3917	PCjr	OSH
Videotex/PC Ext Sup Updt B1.0 to B1.1	Videotex	6265-471	30									G520-3917	PC,XT,AT+ACA+modem	OSH
Videotex/PC Updt B1.0 to B1.1	Videotex	6265-472	55									G520-3917	Non-subscriber	OSH
Videotex/PC Version B1.1 (Feature 9229)	Videotex	6410-985	275									.G520-3917	PC,XT,AT+ACA+modem	OSH
+Videotex/370		5798-DTM	75000		4000							G320-9388	CICS/MVS	2SH
Virtual Machine Interactive Executive	VM/IX	5799-BXN	47000									GH20-6410	VM+STIP5 (5799-BXN)	3SE
Virtual Machine Productivity System	VMPS	7798-VMP	nc										Information Network	N0SC
Virtual Machine/System Product Rel 4	VM/SP	5664-167			443			332	69	110		GC20-1838	S/370,4300,303x,308x	2SK
VM Programming in Logic		5785-ABH	8000									.G520-9228	VM	2SH
VM/SP System Base Rel 2	IP0	5750-ES1	varies									G520-0118	VM	V0SM
WordMARK tm		6187-276	495									.GB30-2037	PC,XT,AT,RT	0SY
XENIX tm (on ten eight-inch diskettes)		6331-444	995									GC22-9248	System 9000	0SE
XENIX tm (Preinstalled on 1-side hardisk)		6331-443	995									GC22-9248	System 9000	0SII
XENIX tm (Preinstalled on 2-side hardisk)		6419-595	995									GC22-9248	System 9000	0SII

Program Title	Short Name	Number	OTC	ILC	MLC	DSO	DSI	DSH	MLP	MML	Mo	MoreInfo	Environment	TPLS
-=MONEY=TRACK=		5796-ZFB	495									.GB30-2313	Displaywriter+UCSD-P	15X
=MONEY=TRACK= (Teaching & Demonstrator)		5792-ZFB	nc									GB30-2313	IBM Internal	N05X
-Administrative Support Implementation		5608-AX1	220									.	Displaywriter	01C
-Applicant Processing Implementation		5608-AX2	220									.	Displaywriter	01C
<u>Association Management</u>		5798-RNY	550									.GB30-2245	Displaywriter	15X
-Asynchronous Communications		5608-SR1	260									G544-0851	Displaywriter	05E
Banking Administration		5798-DTK	550									.G320-0363	Displaywriter	15X
-Binary Synchronous Communications		5608-SR2	260									G544-0851	Displaywriter	05E
-Chartpack		5608-SRA	410									G544-2215	Displaywriter	05E
<u>Displaywriter - Information Exchange</u>		5798-RPL	726									.GB30-2215	S/36+Displaywriter	15X
Displaywriter/PC Attach Convenience Kit		6403-728	495									G544-2280	Textpack4+6024107	05E
Document Interchange - Host to Displaywr HDDI		5799-BKE		1165	265							GC09-1037	DCF,PROFS+5608-SR9	25E
Educational Fund-Raising		5798-RNY	550									.GB30-2246	Displaywriter	15X
-Electronic Document Distribution	EDD	5608-SR8	565									G544-2139	Displaywriter	05E
<u>Financial Planning and Report Generating</u>		5796-ZHT	385									.GB30-2340	UCSD p-System tm R/D	15X
General Donor Fund-Raising		5798-RNM	550									.GB30-2196	Displaywriter	15X
-Hotel / Lodging Application		5796-PXC	550									.G320-0350	Reportpack	15X
-Information Exchange with Displaywriter		5798-RJY	660									.GB30-1857	S/34+Displaywriter	15X
-Languagepack		5608-SR4	335									G544-0851	Displaywriter	05E
<u>Languagepack 2</u>		5608-SR7	650									G544-0851	Displaywriter	05E
Legal Billing		5798-RNG	550									.GB30-2095	Displaywriter	15X
-Legal Extended Spelling Dictionary		5608-SRB	195										Textpack 6	05E
-Logicalc (R)		5796-ZDA	214									.GB30-1976	5608-MS1	15X
-Logiquet III (R)		5796-ZDB	605									.GB30-1978	5608-MS1	15X
<u>Magnetic Card Conversion</u>		5608-SR3	525		240							G544-0851	Displaywriter	05E
-Medical Fund Raising		5796-PXD	385									.G320-0351	Reportpack	15X
-Medical Record Deficiency & Location Trk		5796-PXE	275									.G320-0352	Displaywriter	15X
-Order Entry/Invoice to Gen Ledgr Interfc MAPICS		5798-RTB	550									.GB30-2402	S/34+Ord Entry	15X
-Overstrike / Underscore - 3270 DSC	RPQ P91013	5799-BQH	87									G544-2279	DW+5608-SR6	05E
<u>Personnel Reporting Implementation</u>		5608-AX3	220										Displaywriter	01C
-Reportpack		5608-SR5	320									G544-2099	Displaywriter	05E
-Textpack E - Entry Level		5608-TRE	55									G544-2188	Displaywriter 128K	05E
-Textpack 2		5608-TR2	320					180					Displaywriter	05E
-Textpack 4		5608-TR4	400									G544-2096	Displaywriter 256K	05E
<u>Textpack 6 - Advanced Functions</u>		5608-TR6	865									G544-2187	Displaywriter 320K	05E
-Textpack 6 Multipass Equation Print	RPQ-P91010	5799-HWK	nc										Displaywriter	N05E
Title Insurance		5798-RNZ	550									.GB30-2247	Displaywriter	15X
-UCSD p-System (R) Code Generator		5608-MA3	150									G552-0371	5608-MS2	15X
-UCSD p-System (R) Development System		5608-MS2	950									G552-0371	Displaywriter	15X
<u>-UCSD p-System (R) FORTRAN 77 Compiler</u>		5608-MA2	250									G552-0371	5608-MS2	15X
-UCSD p-System (R) Pascal Compiler		5608-MA1	250									G552-0371	5608-MS2	15X
-UCSD p-System (R) Runtime System		5608-MS1	375									G552-0371	Displaywriter	15X
Wholesale Drug		5798-RRK	550									.GB30-2336	Reportpack	15X
3101 Emulation and Document Transfer		5798-RRE	330									.GB30-2303	Displaywriter	15X
<u>-3270 Attached Work Station</u>		5608-SR9	600									G544-2207	Displaywriter	05E
-3270 Data Stream Compatibility		5608-SR6	600									G544-2049	Displaywriter	05E
-3277 Emulation and Document Transfer	RPQ-P10074	5799-BKG	550									GA09-1679	5799-BKE	05E
-3277 Emulation for Displaywriter	RPQ-P10034	5799-BHT	450									GA09-1679	Displaywriter	05E



## Distribution

One of the largest IBM market sectors and one of the most extensive Clusters. The emphasis is on the medium to large distributor. And the programs run on small System/36s, up to large System/38s. Instead of standalone programs, systems of applications are featured. For example, a data base plus any number of selectable, integrated applications. And the programs often are counted as members of application systems.

A new software system is available to support most operations and management functions of the medium to large auto dealer. New DMAS extensions have been appended to facilitate the use of Retrieval/34 and 36 and inventory management. A medium to large application system—Distribution Control for the 4300 is available covering order entry, purchasing, inventory, billing and receivables.

Program Title	Short Name	Number	OTC	ILC	MLC	DSO	DSI	DSH	MLP	MML	Mo	MoreInfo	Environment	TPLS
Accounts Payable	DFAS II	5726-M43	2675		108	2010		79				.GH30-0221	System/34	11X
Accounts Payable Distribution	DMS/38	5714-D48	2675		93	2010		70				.GH30-0710	System/38	11D
Accounts Payable Distributors	DFAS	5726-D6B	1260		59							.GH30-0219	System/34	11C
Accounts Receivable Distribution	DMS/38	5714-D42	4355		151	3265		112				.GH30-0130	System/38	11X
Accounts Receivable Distributors	DMAS	5726-D4B	1650		86							.GH30-0093	System/34	11X
Accounts Receivable Distributors	DMAS II	5726-D42	2675		108	2010		79				.GH30-0185	System/34	11X
Accounts Receivable Food Distributors	FDMAS	5726-D66	1815		95							.GH30-0156	System/34	11X
Accounts Receivable Lumber Dealers	LDMAS	5726-D4F	1650		86							.GH30-0166	System/34	11X
Advanced Data Communication for Stores	ADCS	5735-XR2	5455		248							.GH20-2188	DOS/VSE,05/VS	15E
Auto Dealership Mgmt - Accounting		5796-ZEJ	11000									.GB30-2107	System/34	15X
Batch Transfer Program	BTP	5747-BM1	nc									GC33-5900	DOS/VS	N0SC
Billing Distributors	DMAS	5726-D4A	2585		134							.GH30-0093	System/34	11X
Billing Distributors	DMAS II	5726-D41	3885		157	2910		118				.GH30-0185	System/34	11X
Billing Food Distributors	FDMAS	5726-D65	2640		137							.GH30-0156	System/34	11X
Billing Lumber Dealers	LDMAS	5726-D4E	2400		125							.GH30-0166	System/34	11X
California Medical Assistance Program	Medi-CAL	5798-R0D/01	440									.GB30-1699	6035	15X
-Cashier Assignment System		5798-CKQ	3025		275						12	.GB21-1921	DOS/VS	11H
COBOL 3650 Programmable Store System		5740-CB2		1070	518		802	238	11	17		GC30-3059	OS/VS	15K
COBOL 3650 Programmable Store System		5746-CB2		855	285		639	213	11	17		GC30-3059	DOS/VS	15K
Consumer Goods System - Allocation	COGS	5734-D52	3980		181							.GH20-4410	OS/MFT/MVT/VS1/VS2	11C
Consumer Goods System - Allocation	COGS	5736-D31	3980		181							.GH20-0721	DOS, D0S/VS	11C
Consumer Goods System - Forecasting	COGS	5734-D33	5320		242							.GH20-4409	OS/MFT/MVT/VS1/VS2	11C
Consumer Goods System - Forecasting	COGS	5736-D32	5320		242							.GH20-0722	DOS, D0S/VS	11C
Credit / Check Authorization		5798-DEW		7875	3015						12	.GB21-2748	MVS, D0S/VSE, CICS/VS	15X
Cross Application System Support	CASS	5727-D4A	1815		106	1360						.GH30-0690	S/36, S/36 PC+DMAS	15B
Customer Service Billing Distribution	DMS/38	5714-D41	4985		173	3735		129				.GH30-0130	System/38	11X
Detail Sales Analysis	DMAS	5798-RPG	632									.GB30-2225	System/36	15X
Direct Store Vendor Delivery Control		5796-BBE			655						24	.G320-6423	DOS/VS CICS DL/I	15H
Distribution Control - Accounts Receivbl		5793-ACC	8360		380							.GB30-2064	5793-ACA	15X
Distribution Control - Accts Receivable		5793-AAG	8360									.GB30-2064	5793-AAE	15X
Distribution Control - Billing		5793-AAJ	9570									.GB30-2064	5793-AAE	15X
Distribution Control - Billing		5793-ACE	9570		435							.GB30-2064	5793-ACA	15X
Distribution Control - Common Features		5793-AAE	20570									.GB30-2064	CICS/D0S/VS	15X
Distribution Control - Common Features		5793-ACA	20570		935							.GB30-2064	4300+MVS+CICS/VS	15X
Distribution Control - Inventory Control		5793-AAK	8360									.GB30-2064	5798-AAE	15X
Distribution Control - Inventory Control		5793-ACF	8360		380							.GB30-2064	5793-ACA	15X
Distribution Control - Order Entry		5793-AAF	11990									.GB30-2064	5793-AAE	15X
Distribution Control - Order Entry		5793-ACB	11990		545							.GB30-2064	5793-ACA	15X
Distribution Control - Purchasing		5793-AAH	7150									.GB30-2064	5793-AAE	15X
Distribution Control - Purchasing		5793-ACD	7150		325							.GB30-2064	5793-ACA	15X
+Distribution Control Sys INFOREM Xface		5793-ADN	10000									.GB30-6003	5793-ADF+INFOREM II	15H
+Distribution Control Sys INFOREM Xface		5793-AFP	10000									.GB30-6003	5793-AFG+INFOREM II	15H
+Distribution Control System - Accts Rec		5793-ADL	8500									.GB30-6003	VSE+CommonFeat	15H
+Distribution Control System - Accts Rec		5793-AFN	8500									.GB30-6003	MVS+CommonFeat	15H
+Distribution Control System - CommonFeat		5793-ADF	21000									.GB30-6003	VSE	15H
+Distribution Control System - CommonFeat		5793-AFG	21000									.GB30-6003	MVS	15H
+Distribution Control System - Inventory		5793-ADH	9500									.GB30-6003	VSE+CommonFeat	15H
+Distribution Control System - Inventory		5793-ADJ	10000									.GB30-6003	VSE+CommonFeat	15H
+Distribution Control System - Inventory		5793-AFJ	9500									.GB30-6003	MVS+CommonFeat	15H
+Distribution Control System - Inventory		5793-AFK	10000									.GB30-6003	MVS+CommonFeat	15H

Program Title	Short Name	Number	OTC	ILC	MLC	DSO	DSI	DSM	MLP	MML	Mo	MoreInfo	Environment	TPLS
+Distribution Control System - OrderEntry		5793-ADG	14000									.GB30-6003	VSE+CommonFeat	15H
+Distribution Control System - OrderEntry		5793-AFH	14000									.GB30-6003	MVS+CommonFeat	15H
+Distribution Control System - Purchasing		5793-ADK	7500									.GB30-6003	VSE+CommonFeat	15H
+Distribution Control System - Purchasing		5793-AFL	7500									.GB30-6003	MVS+CommonFeat	15H
<u>Distribution Purchasing Management System</u>		<u>5796-PTB</u>		3400	977							24.G320-9143	D05/VSE	15H
Distributors Mgt Accts - Accts Pay	DMAS	5727-D48	2805		163	2105						.GH30-0696.	CASS	15B
Distributors Mgt Accts - Accts Rec	DMAS	5727-D42	2805		163	2105						.GH30-0690.	CASS	15B
Distributors Mgt Accts - Billing	DMAS	5727-D41	4070		233	3050						.GH30-0690.	CASS	15B
Distributors Mgt Accts - Gen Ledger	DMAS	5727-D47	2805		163	2105						.GH30-0696.	CASS	15B
<u>Distributors Mgt Accts - Inv Ctrl</u>	<u>DMAS</u>	<u>5727-D43</u>	<u>3685</u>		<u>214</u>	<u>2765</u>						<u>.GH30-0690.</u>	<u>CASS</u>	<u>15B</u>
Distributors Mgt Accts - Inv Mgmt	DMAS	5727-D46	6435		371	4825						.GH30-0690.	CASS+5727-D43	15B
Distributors Mgt Accts - Payroll	DMAS	5727-D49	3795		220	2845						.GH30-0696.	CASS	15B
Distributors Mgt Accts - Purchasing	DMAS	5727-D45	7810		447	5855						.GH30-0696.	CASS	15B
Distributors Mgt Accts - Sales Anal	DMAS	5727-D44	3685		214	2765						.GH30-0696.	CASS	15B
<u>DMAS II Acct Rec Enhance - Food Distrib</u>		<u>5798-NXZ</u>			<u>138</u>							<u>12.GB30-1340</u>	<u>System/34</u>	<u>15H</u>
DMAS II Billing Enhance - Food Distrib		5798-NXY				207						12.GB30-1340	System/34	15H
DMAS II File / Record Definitions		5798-RPY	330									.GB30-2134	Retrieval/36	15X
-DMAS II File / Record Definitions		5798-RQQ	330									.GB30-2132	Retrieval/34	15X
EDX Chain Pharmacy	Medi-CAL	5798-RGD	2420									.GB30-1699	Series/1	15X
<u>-EDX Direct Store Delivery System</u>		<u>5798-RLW</u>	<u>1200</u>									<u>.GB30-1998</u>	<u>Series/1</u>	<u>15X</u>
EDX Energy Mgt - Pregen System		5796-RJT/04	65									.	2031	15H
EDX Energy Mgt - Pregen System		5796-RJT/05	231									.	2032	15H
EDX Energy Mgt - Source Code for Interfc		5796-RJT/03	30									.	3015	15H
EDX Interface Code ( Com-Trol ) FMS-2000		5796-RJT/01	220									.GB30-1847	2019	15H
<u>-EDX S/l to 3660 Communications System</u>		<u>5796-PTP</u>	<u>1210</u>									<u>G320-9149</u>	<u>Series/1</u>	<u>15X</u>
EDX Store Item Management		5798-RTE	1000									.GB30-2405	Series/1	15H
Financial Applications Bridge - Retail	RMAS	5726-XA7	5400		188							24.GH30-0136	System/34	15E
General Ledger	DFAS II	5726-M47	2675		108	2010		79				.GH30-0221	System/34	11X
General Ledger Distribution / Media	DMS/38	5714-D47	2675		93	2010		70				.GH30-0710	System/38	11D
<u>General Ledger Distributors</u>	<u>DFAS</u>	<u>5726-D6A</u>	<u>1260</u>		<u>59</u>							<u>.GH30-0219</u>	<u>System/34</u>	<u>11C</u>
Hotel Reservation & Guest Accounting Sys		5710-DD1	66000									.GB30-2034	System/38	15H
-In-Store Data Communication Facility		5796-BDL	858									.G320-9129	Series/1	15X
INFOREM II Allocation		5798-DDT	13550		616							24.GB21-2695	OS/VS, D05/VSE	15H
INFOREM II Online Processor		5798-DET	15480		704							24.GB21-2695	OS/VS, D05/VSE	15H
<u>Inv Mgmt Prod Rep &amp; Ord Val Eval Improve</u>	<u>DMS/38</u>	<u>5714-D46</u>	<u>9975</u>		<u>349</u>	<u>7475</u>		<u>261</u>				<u>.GH30-0080</u>	<u>System/38</u>	<u>11D</u>
Inven/34 - Computer-Assisted Inventory		5798-NWX	488									12.GB30-1102	System/34	15H
Inventory Control Distribution	DMS/38	5714-D43	4670		163	3505		123				.GH30-0130	System/38	11X
Inventory Control Distributors	DMAS	5726-D4C	2365		122							.GH30-0093	System/34	11X
Inventory Control Distributors	DMAS II	5726-D43	3515		143	2640		108				.GH30-0185	System/34	11X
<u>Inventory Control Food Distributors</u>	<u>FDMAS</u>	<u>5726-D67</u>	<u>2365</u>		<u>122</u>							<u>.GH30-0156</u>	<u>System/34</u>	<u>11X</u>
Inventory Control Lumber Dealers	LDMAS	5726-D4G	2150		111							.GH30-0166	System/34	11X
Inventory Forecasting & Replenishment II	INFOREM II	5798-DDR	15110		687							24.GB21-2695	OS/VS, D05/VSE	15H
Over-the-Counter Inv & Accts Rec Inquiry	DMAS II	5726-DM5	2255									.GB30-2501	System/34	15C
PARIS- Purchase Order & Merchandise		5796-PTE		3095	891							36.G320-9145	5666-294	15X
<u>PARIS- Receiving Checking &amp; Distribution</u>		<u>5796-PTD</u>		<u>995</u>	<u>287</u>							<u>36.G320-9146</u>	<u>5666-294</u>	<u>15X</u>
Payroll Distribution	DMS/38	5714-D49	3410		119	2560		89				.GH30-0710	System/38	11D
Payroll Distributors	DFAS	5726-D6C	1575		77							.GH30-0219	System/34	11C
Payroll Distributors Mfg MAPICS	DFAS II	5726-M42	3620		146	2715		109				.GH30-0221	System/34	11X
Payroll 401K Tax-Deferred Savings Plan	DMAS	5798-RWK	300									.GB30-2693	S/36 DMAS Payroll	15H
-Physical Inventory Enhancement	DMAS II	5798-RBN	1110		101							12.GB30-1506	System/34	15H

Program Title	Short Name	Number	OTC	ILC	MLC	DSO	DSI	DSM	MLP	MML	Mo	MoreInfo	Environment	TPLS
Physical Inventory Enhancement	DMAS	5798-RPE	1395										.GB30-2230 System/36	1SX
Planning Aid for Retail Information/Base	PARIS/Base	5665-320		4708	1350								.GE20-0582 DFDS+DFEF+DMS+IMS+CO	1SE
Planning Aid for Retail Information/Base	PARIS/Base	5666-294	22275	2775	747								.GH20-5611 DL/LI,CICCS/DOS/V5,VSE	1SE
-Point-of-Sale Data Collection & Distrib		5798-NYA	3110		283								12.GB30-1397 Series/1	1SH
Purchase Ordering & Mdse Info. System	PARIS	5796-PXP	47300										.G320-9195 MVS+PARIS/Base	1SH
Purchasing Distribution	DMS/38	5714-D45	9605		335	7205		250					.GH30-0595 System/38	1IX
Purchasing Distributors	DMAS II	5726-D46	7455		303	5590		226					.GH30-0185 System/34	1ID
Receiving, Checking & Distribution Systm	PARIS	5796-PXQ	20350										.G320-9146 MVS+PARIS/Base	1SH
-Retail Inventory - Planning & Mdse Syst		5796-ZDM		10990	2195								12.GB30-2042 System/34	1SX
Retail Inventory Plan & Mdse System		5796-ZFA		9995	3795								24.GB30-2207 System/38	1SX
-Retail Pharmacy System		5798-NRN	7290		663								12.GB30-1226 System/34	1SH
Retail Store System Host Support		5744-BQ1	nc										GC30-3022 OS/V51	NOSS
Sales Analysis Distribution	DMS/38	5714-D44	4000		139	3030		105					.GH30-0130 System/38	1ID
Sales Analysis Distributors	DMAS	5726-D4D	2150		111								.GH30-0093 System/34	1IX
Sales Analysis Distributors	DMAS II	5726-D44	3350		125	2515		88					.GH30-0185 System/34	1IX
-Sales Analysis Enhancements	DMAS II	5796-RJL	550										.GB30-1810 System/34	1SX
Sales Analysis Food Distributors	FDMAS	5726-D68	2150		95								.GH30-0156 System/34	1IX
Sales Analysis Lumber Dealers	LDMAS	5726-D4H	2150		111								.GH30-0166 System/34	1IX
-Simultaneous Printing 3650 Transactions		5798-CZK	297		27								12.GB21-2469 DOS/V5	1SH
Store System Installation Aids	PSS	5770-SA1	nc										DOS/V5, DOS/VSE	NOSS
Store System Installation Aids	PSS	5770-SA2	nc										OS/V5	NOSS
Subsystem Program Preparation		5744-BQ2	nc										GC30-9513 OS/V5	NOSS
Subsystem Program Preparation		5747-BJ2	nc										GC30-9515 DOS/V5	NOSS
-Supermarket Cashier Performance System		5796-BAE			180								12.G320-6407 DOS/VSE	1SH
Supermarket System Host		5747-BK1	nc										GC30-3025 DOS/V5	NOSS
Vehicle Scheduling Program - Extended	VSPX	5734-XM5	6115		278								.GH19-2000 OS/V5	1IC
Vehicle Scheduling Program - Extended	VSPX	5736-XM3	3190		145								.GH19-2000 DOS, DOS/V5	1IC
Wholesale Drug		5798-RRK	550										.GB30-2336 Reportpack	1SX
-3650 Application Development Debug		5798-DGY	847		77								12.GB21-2883 OS/V5, DOS/VSE	1SH
3650 Point-of-Sale Report Customizer	PSS	5748-D15	603		16								48.GC30-3054 SPPS II & PSS Host	1SA
3650 Point-of-Sale Retail Environment	PSS	5748-D14	5695		149								48.GC30-3056 DOS/V5, OS/V5	1SA
3650 Programmable Store System SPPS		5747-CJ2	nc										GC30-9535 DOS/V5	NOSJ
3650 PSS SPPS II		5744-DA1	nc										GC30-9535 OS/V5	NOSJ
3650 Retail Store System		5744-BQ3	nc										GC30-9512 OS/V5	NOSS
3650 Retail Store System		5747-BJ1	nc										GC30-3023 DOS/V5	NOSS
3650 Retail Store System		5747-BJ3	nc										GC30-9514 DOS/V5	NOSN
-3650 Retail Transaction Staging		5798-DDQ	2595		236								12.GB21-2703 OS/V5, VSE 5748-D14	1SH
3650 Store Data Management	PSS	5748-D22	1160		29								48.GH20-2150 SPPS II & PSS Host	1SA
3650 Subsystem Program Prep Support II	SPPS II	5735-D16		1605	577		1200	433	28	45			GC30-9524 DOS/VSE, OS/V5	1SK
3650 Supermarket Environment	PSS	5748-D21	2770		72								48.GC30-3055 SPPS II & PSS Host	1SA
3650 3680 Programmable Store System Hos	PSS	5747-D16	nc										GC30-9536 Replaced by 5668-912	NOSJ
3650 3680 Programmable Store System Host	PSS	5744-D16	nc										GC30-3060 Replaced by 5668-912	NOSJ
3650/3680 Language and Host Services 1.2 LHS		5668-912		4280	444		3210	333	110	176			GA27-3213 VSE, OS/V5+BTAM, VTAM	1SK
3660 Supermarket Store System		5744-BR2	nc										GC30-9504 OS/V5	NOSS
3660 Supermarket Store System		5747-BK2	nc										GH30-3025 DOS/V5	NOSS
3660 Supermarket System - Host Support		5744-BR1	nc										GC30-3042 OS/V5	NOSS
3680 Store Systems Administration		5735-D62	504		13								48.GH20-5608 SPPS II & PSS HOST	1SA
3680 Store Systems Sales Application		5735-D61	304		8								48.GH20-5608 SPPS II & PSS Host	1SA
-3800 3-of-9 Bar Code Print		5798-DMH	3300										.GB21-3048 OS/V5	1SX

## Education

Activity in this Cluster is the most significant in years. There are many new offerings. The depth and direction of the new arrivals is the big news. In the minicomputer class (System/34, 36) there are entire systems of individual programs that may be purchased a la carte...or integrated to gain function greater than the sum of the parts.

The Personal Computer received a major enhancement with the announcement of the PC Instructional System. It is analogous to the S/370 IIAS and IIPS and optionally can be linked to them via modem. PILOT is a similar program, not compatible with IIAS or IIPS but it has outstanding color graphics. The Private Tutor series also has similarities with less functional depth; but it includes optional learning modules for algebra, multiplication tables, intermediate and advanced

BASIC topics and beginning FORTRAN. See the rose pages for articles on these programs.

Educators will be delighted to learn that the operating system in widest academic use, (next to DOS) UNIX™, is available for the System/370 as IX/370. The PC version is designated PC/IX or XENIX™. Since the PC has its own Cluster you also should scan it for additional educational offerings. The Computer Based Training Cluster also is recommended.

Look for the IBM's Career School Administration System family of programs to be featured at the Association of Independent Colleges and Schools convention, October 22-25, 1986 in Colorado Springs. This product also will be featured at the American Vocational Association convention, Dallas, December 5-9 and the Southern Association of Colleges and Schools (SACS) convention, Atlanta, December 7-10.

Program Title	Short Name	Number	QTC	ILC	MLC	DSQ	DSI	DSM	MLP	MMI	Mo	MoreInfo	Environment	TPLS
- 3800 Page Formatting Service		5796-AHE	3890		295							12.G320-6067	OS/VS	1SH
+Academic Information System 4.2	BSD 4.2	5799-CGZ	1715										RT	OSC
-Accounting Principles Course		5796-PQY		990	379							12.G320-6671	IIS	1EX
Admin System for Colleges/ Financial Aid		5796-PMZ	8800									.G320-9194	System/38	1SH
Admin System for Colleges/ Student Recds		5796-PMY	7920									.G320-0194	System/38	1SH
Admissions for Colleges & Universities		5796-PXA	6820									.G320-9194	System/38	1SH
Advanced Netware tm / C		6404-010	1595									GB30-2037	PC,XT,AT	0SY
Advanced Netware tm / PCN		6404-009	1595									GB30-2037	PC,XT,AT	0SY
Adventures in Math (Feature 4112)		6024-112	39									G520-3917	PC,PCjr,XT	0SZ
-Alumni Information System		5796-BCH		1500	500							24.G320-6656	CICS/VS,DL/I	1SX
-Alumni Information System		5796-BCZ		1500	500							24.G320-6656	CICS/VS,DL/I	1SX
-APL Econometric Planning Language	EPLAN	5796-PDW	2705		246							12.G320-5535	APLSV	1IH
Arithmetic Games Set 1		6024-024	60									G520-3917	PC,PCjr	0SZ
Arithmetic Games Set 2		6024-025	60									G520-3917	PC,PCjr	0SZ
Basic Number Concepts (Private Tutor)		6024-297	55									G520-1107	PC,PCjr,XT,AT,PPC	0SZ
+Bouncy Bee Learns Letters		6024-137	70									G520-1107	PC,XT,AT,PPC,PCjr	0SZ
+Bouncy Bee Learns Words		6024-139	70									G520-1107	PC,XT,AT,PPC,PCjr	0SZ
Braille Text		5798-DNC	2640									GB21-3093	VM,MVS	1SH
CADAM (R) D/B/M Detail Library Feature		5668-853/01	2675	224	74	1675	148	47				2146,4644,4624,2346,		1SE
Capitalization Skills		6024-085	55									G520-1107	Private Tutor 2.00	0SZ
-Career Guidance System- Adults / College	DISCOVER	5796-AYC			250							24.G320-6176	5796-AYA	1SH
-Career Guidance System- Secondary School	DISCOVER	5796-AYB			250							24.G320-6176	5796-AYA	1SH
Cell Functions: Growth & Mitosis		6024-316	65									G520-1107	PC,PCjr,XT,AT,PPC	0SZ
Cell Functions: Growth & Mitosis (BioSer School Pkg		6024-391	295									G520-1107	PC,PCjr,XT,AT,PPC	0SZ
Chemicals of Life I: Structure of Matter	Biolog Ser	6024-317	65									G520-1107	PC,PCjr,XT,AT,PPC	0SZ
Chemicals of Life I: Structure of Matter	School Pkg	6024-397	295									G520-1107	PC,PCjr,XT,AT,PPC	0SZ
Chemicals of Life II: Water, Carbo Lipid	BiolSeries	6024-344	65									G520-1107	PC,PCjr,XT,AT,PPC	0SZ
Chemicals of Life II: Water, Carbo Lipid	School Pkg	6024-394	295									G520-1107	PC,PCjr,XT,AT,PPC	0SZ
+Chemicals of Life: Proteins & Nucleic Ac		6024-409	65									G520-1107	PC,PCjr,XT,AT+color	0SZ
+Chemicals of Life: Proteins & Nucleic Ac	SchoolPack	6024-439	295									G520-1107	PC,PCjr,XT,AT+color	0SZ
Cluster Program		6024-107	99									G520-3917	PC,PCjr,PPC,XT	0SZ
-Coll & Univ Business Sys- Financial Acct		5796-RHT	6380									GB30-1747	System/34	1SX
-Coll & Univ Business Sys- Student Aid		5796-RHR	3960									GB30-1747	System/34+5796-RHW	1SX
-Coll & Univ Business Sys- Student Record		5796-RHH	6380									GB30-1747	System/34	1SX
-College Business Sys Financial Acctg	CUBS	5796-RQE	7150									GB30-2181	System/36	1SX
-College Business Sys Student Aid & Bill	CUBS	5796-RQD	4400									GB30-2181	System/36	1SX
-College Business Sys Student Records	CUBS	5796-RQF	7150									GB30-2181	System/36	1SX
Community Mental Health MIS	CMHMIS	5796-PXX	7700									.G320-0330	System/36	1SH
Computer Preparation for the SAT tm		6187-307	79									GB30-2037	PC,XT,PCjr	0SY
+Concept Devt: Heat, Temperature & Graphs		6024-474	75										128k+color	0SQ
Cooperative Viewing Facility Version 2	CVIEW	5664-296	5280		330							G520-6005	VM	2SA
+Cytology & Histology: Cells & Tissues		6024-407	65									G520-1107	PC,PCjr,XT,AT+color	0SZ
+Cytology & Histology: Cells & Tissues	SchoolPack	6024-437	295									G520-1107	PC,PCjr,XT,AT+color	0SZ
Development for Colleges & Universities		5796-PXB	6820									.G320-9194	System/38	1SH
-DISCOVER- Career Guidance System - Base		5796-ATA			750							24.G320-6176	DOS/VSE VSI	1SH
Dortmund Leuven Library System Batch	DOBIS Rel2	5787-FAH	13900		632							24.G320-6662	5787-DA	2SX
Dortmund Leuven Library System Batch	DOBIS Rel1	5787-FAL	8820		401							24.G320-6662	5787-DAB	2SX
Dortmund Leuven Library System Online	DOBIS Rel4	5787-FAJ	13900		632							24.G320-6662	5787-DA -FAH	2SX
Dortmund Leuven Library System Online	DOBIS Rel4	5787-FAK	13900		632							24.G320-6662	5787-DA -FAH	2SX
Dortmund Leuven Library System Rel 4	DOBIS	5787-DAA	22330		1015							24.G320-6662	OS/VS,CICS/VS	2SX

Program Title	Short Name	Number	QTC	ILC	MLC	DSQ	DSI	DSH	MHP	MHL	Mo	MoreInfo	Environment	TPLS
Dortmund Leuven Library System Rel 4	DOBIS	5787-DAB	17290		786							24.G320-6662	D05/VSE,CICS/VS	25X
Earthquakes (Earth Science Series)		6024-322	55									G520-1107	PC,PCjr,XT,AT,PPC	05Z
Education Info Syst - Section Developmt	EIS	5796-PQT	8910									G320-6665	5796-BAZ	15X
Education Information - Registration	EIS	5796-PQR		840	304							24.G320-6663	5796-BAZ	15X
Education Information System - Data Base	EIS	5796-BAZ			488							24.G320-6424	D05/VSE DMS DL/I	15X
Education Information System - Grading	EIS	5796-PRX		960	276							24.G320-9139	5796-BAZ	15X
+Electric Desk tm Academic Edition		6205-272	64									.GB30-2037	PC,XT,AT,jr	05Y
+Electric Desk tm Academic Edition		6205-273	64									.GB30-2037	PCC 3.5" drive	05Y
+Electric Desk tm Academic Edition		6404-014	13									GB30-2037	User's Guidege	05Y
+Electric Desk tm Academic Edition		6476-223	86									GB30-2037	PCjr cartridge	05Y
-Employee Management System		5796-ZFP	11000									.GB30-2276	System/34	15X
Engineering Simulation Program		6317-031	439									.G320-0821	PC,XT,AT+8087+FORTRA	05H
-Engineering/Scientific Support Sys-Entry	E/S3-Entry	5750-ESE	varies									G520-0118	Replaced by VME53	V05T
English Communications Skills II		5796-BBT	5080		385							.G320-6433	IIS,IIPS	1EH
+Environment: Habitats & Ecosystems		6024-412	65									G520-1107	PC,PCjr,XT,AT+color	05Z
+Environment: Habitats & Ecosystems	SchoolPack	6024-442	295									G520-1107	PC,PCjr,XT,AT+color	05Z
EPIC - SOCRATES Online Maint System		5796-AQH			220						12.G320-5814	D05/VS,CICS/VS	15H	
-Financial Management System		5796-ZFL	13200									.GB30-2276	System/34	15X
+General Ledger	Career Sch	5796-TCB	3000									.G320-9506	System/36	15I
Gertrude's Puzzles		6024-098	49									G520-1107	PC,XT,PCjr,PPC	05Z
Gertrude's Secrets		6024-097	49									G520-3917	PC,XT,PCjr+Color	05Z
+Get Set for Writing to Read		6024-468	295										PCjr+Speech attachmt	05Z
Get Set for Writing to Read - Book Set		6024-469	6										6024468	05Z
+Graduate Placement	Career Sch	5796-TCC	2250									.G320-9506	System/36	15I
Ground Water - Earth Science Series		6024-122	55									G520-1107	PC,XT,PCjr,PPC+DOS2+	05Z
+Guaranteed Student Loan/Pell Tracking	Career Sch	5796-TCG	1500									.G320-9506	System/36	15I
+Human Life Processes		6024-411	65									G520-1107	PC,PCjr,XT,AT+color	05Z
+Human Life Processes	SchoolPack	6024-441	295									G520-1107	PC,PCjr,XT,AT+color	05Z
Human Life ProcessesI: Cellular Physiolo	Biolog Ser	6024-346	65									G520-1107	PC,PCjr,XT,AT,PPC	05Z
+Human Life: Development & Differentiatn		6024-414	65									G520-1107	PC,XT,AT,PCjr+color	05Z
+Human Life: Development & Differentiatn	School pkg	6024-444	295									G520-1107	PC,XT,AT,PCjr+color	05Z
Hydrologic Cycle - Earth Science Series		6024-121	55									G520-1107	PC,XT,PCjr,PPC+DOS2+	05Z
I Can Be Anything		6024-304	50									G520-1107	PC,PCjr,XT,AT,PPC	05Z
IIAS XT/370		5668-011/01	1890		60								3013.3008	05C
IIPS XT/370		5668-012/01	604		18								3009.3014	05C
Instructional System - Administration	PC/IS	6428-087	439									.G320-0441	PC	05X
Instructional System - Authoring	PC/IS	6428-072	575									.G320-0441	PC	05X
Instructional System - Presentation	PC/IS	6428-071	89									.G320-0441	PC	05X
Interactive Instructional Authoring	IIAS	5668-011	16170		529							.GH20-0008	VM,IMS,CICS+TCAMVTAM	2EB
Interactive Instructional Presentation	IIPS	5668-012	9450		309								MVS,VSE,VM	2EB
-Interactive Student Records		5798-NMF	2075		189						12.GB30-1300	System/34		11H
-Inventory Management System		5796-ZFQ	7150									.GB30-2276	System/34	15X
+Investigating Acceleration		6024-403	75									G520-1107	PC,PCjr,XT,AT+color	05Z
+Investigating Conservation of Energy		6024-406	75									G520-1107	PC,PCjr,XT,AT+color	05Z
+Investigating Electric Fields		6024-464	75									G520-1107	PC,XT,AT,PCjr+color	05Z
+Investigating Gravitational Force		6024-404	75									G520-1107	PC,PCjr,XT,AT+color	05Z
+Investigating Models of Light		6024-465	75									G520-1107	PC,XT,AT,PCjr+color	05Z
+Investigating Thermal Energy		6024-405	75									G520-1107	PC,PCjr,XT,AT+color	05Z
+Investigating Wave Interference		6024-466	75									G520-1107	PC,XT,AT,PCjr+color	05Z
Job Placement Match		5796-PXN	6490									.G320-0329	VSE	15H

Program Title	Short Name	Number	OTC	ILC	MLC	DSQ	DSI	DSM	MLP	MML	Mc	MoreInfo	Environment	TPLs
Karel the Robot		6024-066	150									G520-1107	PC,XT,PCjr,PPC	05Z
+Landslides 1.0		6024-324	60									G520-1107	PC,XT,AT,PCjr,PPC	05Z
Language Skills		6024-084	55									G520-1107	Private Tutor 2.00	05Z
Leaf Structure & Physiology (Biol Series)		6024-318	65									G520-1107	PC,PCjr,XT,AT,PPC	05Z
Leaf Structure & Physiology (Biol Series School Pkg)		6024-388	295									G520-1107	PC,PCjr,XT,AT,PPC	05Z
Library Congress Marc to Dortmund Dmarc	DOBIS	5796-PPZ	577									G320-9152	DDS,V51,MVS	15X
Lights Plants & Photosynthesis (BiolSer)		6024-319	65									G520-1107	PC,PCjr,XT,AT,PPC	05Z
Lights Plants & Photosynthesis (BiolSer) School Pkg		6024-393	295									G520-1107	PC,PCjr,XT,AT,PPC	05Z
Listen to Learn		6024-165	195									G520-1107	PC,PCjr,XT,AT,PPC	05Z
LOGO (R) with Turtle Graphics		6024-076	175									G520-3917	PC,PCjr	05Z
Logo Learner		6024-136	110									G520-1107	PC,PCjr,XT,AT,PPC	05Z
MasterType tm (Feature 9294)		6871-484	39									GB30-2037	PC,XT,PCjr	05Y
Math Blaster! tm		6871-443	43									GB30-2037	PC,XT,PCjr	05Y
Math Computation Skills (Private Tutor)		6024-305	55									G520-1107	PC,PCjr,XT,AT,PPC	05Z
+Math Concepts Series: Grades 1-2		6024-355	175									G520-1107	PC,XT,PCjr,AT 128k	05Z
+Math Concepts Series: Grades 1-2	School pkg	6024-368	789									G520-1107	PC,XT,PCjr,AT 128k	05Z
+Math Concepts Series: Grades 3-4		6024-357	175									G520-1107	PC,XT,PCjr,AT 128k	05Z
+Math Concepts Series: Grades 3-4	School pkg	6024-369	789									G520-1107	PC,XT,PCjr,AT 128k	05Z
+Math Concepts Series: Grades 5-6		6024-417	879									G520-1107	PC,XT,PCjr,AT 128k	05Z
+Math Concepts Series: Grades 5-6		6024-427	195									G520-1107	PC,XT,PCjr,AT 128k	05Z
+Math Concepts Series: Grades 7-8	School pkg	6024-419	879									G520-1107	PC,XT,PCjr,AT 128k	05Z
+Math Concepts Series: Grades 7-8		6024-429	195									G520-1107	PC,XT,PCjr,AT 128k	05Z
+Math Concepts Series: Pre-school		6024-356	150									G520-1107	PC,XT,PCjr,AT 128k	05Z
+Math Concepts Series: Pre-school	School pkg	6024-370	675									G520-1107	PC,XT,PCjr,AT 128k	05Z
+Math Practice: Grades 1-2		6024-353	95									G520-1107	PC,XT,AT,PCjr+color	05Z
+Math Practice: Grades 1-2	School pkg	6024-372	429									G520-1107	PC,XT,AT,PCjr+color	05Z
+Math Practice: Grades 3-4		6024-354	95									G520-1107	PC,XT,AT,PCjr+color	05Z
+Math Practice: Grades 3-4	School pkg	6024-371	429									G520-1107	PC,XT,AT,PCjr+color	05Z
+Math Practice: Grades 5-6		6024-421	429									G520-1107	PC,XT,AT,PCjr+color	05Z
+Math Practice: Grades 5-6		6024-431	95									G520-1107	PC,XT,AT,PCjr+color	05Z
+Math Practice: Grades 7-8	School pkg	6024-422	429									G520-1107	PC,XT,AT,PCjr+color	05Z
+Math Practice: Grades 7-8		6024-432	95									G520-1107	PC,XT,AT,PCjr+color	05Z
Mathematics, Elementary		5796-APC			260						24	G320-5804	IIS,IIPS (NOT IMS)	1EH
McGill U System Interactive Computing V MUSIC		5796-PAQ			624							G320-6629	VM/CMS	15X
+Measurement Process: Distance & Area		6024-670	75									G520-1107	PC,XT,AT,PCjr+color	05Z
+Mendelian Genetics: Inheritance		6024-608	65									G520-1107	PC,PCjr,XT,AT+color	05Z
+Mendelian Genetics: Inheritance	SchoolPack	6024-638	295									G520-1107	PC,PCjr,XT,AT+color	05Z
Metric I - Fundamentals of Decimals		6871-487	49									GB30-2037	PC,XT,PCjr	05Y
Metric III - Units of Measurement		6871-518	49									GB30-2037	PC,XT,PCjr	05Y
Metric IV - Linear Units (Feature 9329)		6871-519	49									GB30-2037	PC,XT,PCjr	05Y
Metric V - Area Density Measurements		6871-520	49									GB30-2037	PC,XT,PCjr	05Y
Missing Letters		6024-104	50									G520-1107	PC,PCjr,XT,AT,PPC	05Z
Modern Genetics: Chromosomes & Coding	Biolog Ser	6024-345	65									G520-1107	PC,PCjr,XT,AT,PPC	05Z
Modern Genetics: Chromosomes & Coding	School Pkg	6024-395	295									G520-1107	PC,PCjr,XT,AT,PPC	05Z
Moisture in the Atmosphere		6024-124	55									G520-1107	PC,XT,PCjr,PPC+DDS2+	05Z
Mult-User System For Interactive Comput	MUSIC/SP	5664-197			850							G320-0805	VM+FORTRAN	25E
Network tm Bridge		6404-011	395									GB30-2037	PCNetwork+PCCluster	05Y
-Online Student Registration		5798-NMP	4025		366						12	GB30-1312	System/34	15H
+Parts of Speech Series: Grades 3-4		6024-333	100									G520-1107	PC,XT,AT,PCjr+color	05Z
+Parts of Speech Series: Grades 3-4	School pkg	6024-378	450									G520-1107	PC,XT,AT,PCjr+color	05Z



Program Title	Short Name	Number	OTC	ILC	MLC	DSO	DSI	DSH	MHP	MHL	Mo	MoreInfo	Environment	TPLS
+Parts of Speech Series: Grades 5-6		6024-334	100										G520-1107 PC,XT,AT,PCjr+color	05Z
+Parts of Speech Series: Grades 5-6	School pkg	6024-379	450										G520-1107 PC,XT,AT,PCjr+color	05Z
+Passive Transport, Diffusion and Osmosis	Biolog Ser	6024-320	65										G520-1107 PC,PCjr,XT,AT,PPC	05Z
+Passive Transport, Diffusion and Osmosis	School Pkg	6024-389	295										G520-1107 PC,PCjr,XT,AT,PPC	05Z
+Pathology: Diseases and Defenses	Biolog Ser	6024-343	65										G520-1107 PC,PCjr,XT,AT,PPC	05Z
+Pathology: Diseases and Defenses	School Pkg	6024-390	295										G520-1107 PC,PCjr,XT,AT,PPC	05Z
PC Interactive Executive	PC/IX	1753-369	989										GH20-6247 PC,XT,XT/370,AT+10MB	05E
PC Interactive Executive Upgrade to 1.1	PC/IX	6317-009	40										GH20-6247 PC/IX 1.0 6428163	05E
+PC/Classroom LAN Administration Syst 1.0	PC/CLASS	6024-159	995										Advanced NetWare 2.0	0LZ
+PC/Crayon tm (Feature 9290)		6871-480	60										GB30-2037 PC,XT,PCjr	05Y
+PCemas tm		6187-159	4995										GB30-2037 AT	05Y
+PCemas tm Report Generator		6187-160	695										GB30-2037 PCemas	05Y
Periodicals Control System Rel 4	DOBIS	5785-DDN	15795	2500	718							24.6320-6662 5787-DAA+FAJ+FAH	25H	
Periodicals Control System Rel 4	DOBIS	5785-DED	15795	2500	718							24.6320-6662 5787-DAB+FAK+FAL	25H	
Plants: Growth & Specialization	Biolog Ser	6024-321	65										G520-1107 PC,PCjr,XT,AT,PPC	05Z
Plants: Growth & Specialization	School Pkg	6024-392	295										G520-1107 PC,PCjr,XT,AT,PPC	05Z
+Pollination & Fert: Seeds,Fruits,Embryos		6024-415	65										G520-1107 PC,XT,AT,PCjr+color	05Z
+Pollination & Fert: Seeds,Fruits,Embryos	School pkg	6024-445	295										G520-1107 PC,XT,AT,PCjr+color	05Z
Preparing for Geometry and Algebra	Priv Tutor	6024-307	55										G520-1107 PC,PCjr,XT,AT,PPC	05Z
Primary Editor		6024-294	60										G520-1107 PC,PCjr,XT,AT,PPC	05Z
+Private Tutor Series - Spell Facts		6276-627	20										6024113 or 6276602	05R
Private Tutor Version 2		6024-113	55										G520-1107 PC,XT,PCjr,PPC+DOS2+	05H
Programmed Inquiry Learning or Teaching	PILLOT	6516-973	219										G520-1107 PC,XT,AT,PPC,PCjr	05Z
+Projected/Actual Payment Tracking	Career Sch	5796-TBY	1500										G320-9506 System/36	15I
Punctuation Skills		6024-083	55										G520-1107 Private Tutor 2.00	05Z
RAMS II Student Service System		5796-BCR		1230	471								24.6320-6661 VSE,DL/I,5735-E91	15X
+Ratio Reasoning: Crystals and Speed		6024-473	75										128k+color	05G
Reading Comprehension Skills (Priv Tutor)		6024-325	55										G520-1107 PC,PCjr,XT,AT,PPC	05Z
+Reading for Information: Grades 3-4		6024-358	125										G520-1107 PC,XT,AT,PCjr+color	05Z
+Reading for Information: Grades 3-4	School pkg	6024-386	565										G520-1107 PC,XT,AT,PCjr+color	05Z
+Reading for Information: Grades 5-6		6024-359	150										G520-1107 PC,XT,AT,PCjr+color	05Z
+Reading for Information: Grades 5-6	School pkg	6024-387	675										G520-1107 PC,XT,AT,PCjr+color	05Z
+Reading for Information: Grades 7-8		6024-360	150										G520-1107 PC,XT,AT,PCjr+color	05Z
+Reading for Information: Grades 7-8	School pkg	6024-366	750150										G520-1107 PC,XT,AT,PCjr+color	05Z
+Reading for Meaning Series: Grade 2		6024-330	150										G520-1107 PC,XT,AT,PCjr+color	05Z
+Reading for Meaning Series: Grade 2	School pkg	6024-384	675										G520-1107 PC,XT,AT,PCjr+color	05Z
+Reading for Meaning Series: Grades 3-4		6024-336	150										G520-1107 PC,XT,AT,PCjr+color	05Z
+Reading for Meaning Series: Grades 3-4	School pkg	6024-374	675										G520-1107 PC,XT,AT,PCjr+color	05Z
+Reading for Meaning Series: Grades 5-6		6024-337	150										G520-1107 PC,XT,AT,PCjr+color	05Z
+Reading for Meaning Series: Grades 5-6	School pkg	6024-375	675										G520-1107 PC,XT,AT,PCjr+color	05Z
+Reading for Meaning Series: Grades 7-8		6024-338	150										G520-1107 PC,XT,AT,PCjr+color	05Z
+Reading for Meaning Series: Grades 7-8	School pkg	6024-364	675										G520-1107 PC,XT,AT,PCjr+color	05Z
+Registration, Attendance & Grading	Career Sch	5796-TCJ	6750										G320-9506 System/36	15I
+Regulation & Homeostasis		6024-410	65										G520-1107 PC,PCjr,XT,AT+color	05Z
+Regulation & Homeostasis	SchoolPack	6024-440	295										G520-1107 PC,PCjr,XT,AT+color	05Z
Rocky's Boots		6024-099	50										G520-1107 PC,XT,PCjr,AT+color	05Z
School - Employee Management System	CIMS	5796-ZGA	13200										GB30-2268 5796-ZFY	15H
School - Financial Management	CIMS	5796-ZFY	15950										GB30-2268 System/36	15H
School - Fixed Asset Inventory System	CIMS	5796-ZGB	3960										GB30-2268 5796-ZFY	15H
School - Library Management System	CIMS	5796-ZGF	1980										GB30-2268 System/36	15H

Program Title	Short Name	Number	OTC	ILC	MLC	D90	DSI	DSM	NLP	HML	Mo	MoreInfo	Environment	TPLS
School - Student Administration System	CIMS	5796-ZFZ	13200									.GB30-2268	System/36	1SH
School - Student Attendance System	CIMS	5796-ZGC	3960									.GB30-2268	5796-ZFZ	1SH
School - Warehouse Inventory System	CIMS	5796-ZGD	5280									.GB30-2268	5796-ZFY	1SH
Schools Financial Accounting System		5796-ZNA	8000									.GB30-6002	System/36 PC	1SH
<u>Schools Inventory Management System</u>		5796-ZNC	3000									.GB30-6002	Financial Acctg Syst	1SH
Schools Payroll System		5796-ZNB	8000									.GB30-6002	Financial Acctg Sys	1SH
*Scientific Models: Batteries&Bulbs&Famili		6024-472	75										128k+color	05G
Solving Math Word Problems (Priv Tutor)		6024-308	55									0520-1107	PC,PCjr,XT,AT,PPC	05Z
SPEED READER II tm		6871-441	69									.GB30-2037	PC,XT,3270-PC,PCjr	05Y
<u>*Spelling Series: Grades 1-2</u>		6024-347	110									0520-1107	PC,XT,AT,PCjr+color	05Z
*Spelling Series: Grades 1-2	School pkg	6024-380	495									0520-1107	PC,XT,AT,PCjr+color	05Z
*Spelling Series: Grades 3-4		6024-348	110									0520-1107	PC,XT,AT,PCjr+color	05Z
*Spelling Series: Grades 3-4	School pkg	6024-381	495									0520-1107	PC,XT,AT,PCjr+color	05Z
*Spelling Series: Grades 5-6		6024-349	110									0520-1107	PC,XT,AT,PCjr+color	05Z
<u>*Spelling Series: Grades 5-6</u>	School pkg	6024-382	495									0520-1107	PC,XT,AT,PCjr+color	05Z
Spelling Skills		6024-086	55									0520-1107	Private Tutor 2.00	05Z
Student Accounting School Administration	SAS	5726-E32	3410			167						.GH30-0414	System/34	1IX
*Student Accounts Payable	Career Sch	5796-TCF	1500									.G320-9506	System/36	1S1
-Student Administration System		5796-ZFN	14300									.GB30-2276	System/34	1SX
<u>Student Attendance Management System</u>		5796-ZNH	3600									.GB30-6002	Student Mat System	1SH
Student Evaluation System		5796-ZNJ	3000									.GB30-6002	Student Mgt System	1SH
*Student Financial Tracking	Career Sch	5796-TCA	6750									.G320-9506	System/36	1S1
Student Grading System		5796-ZNE	2500									.GB30-6002	Student Mat System	1SH
Student Management System		5796-ZND	3000									.GB30-6002	System/36 PC	1SH
<u>Student Optical Scanning System</u>		5796-ZNG	1500									.GB30-6002	Student Mat System	1SH
Student Records School Administration	SAS	5726-E31	3095			151						.GH30-0410	System/34	1IX
*Student Recruitment	Career Sch	5796-TCD	6000									.G320-9506	System/36	1S1
Student Scheduling School Administration	SAS	5726-E33	4095			200						.GH30-0415	System/34	1IX
Student Scheduling System		5796-ZNF	5000									.GB30-6002	Student Mgt System	1SH
<u>Surface Water - Earth Science Series</u>		6024-123	55									0520-1107	PC,XT,PCjr,PPC+D952+	05Z
+Taxonomy: Classification & Organization		6024-416	65									0520-1107	PC,XT,AT,PCjr+color	05Z
+Taxonomy: Classification & Organization	School pkg	6024-446	296									0520-1107	PC,XT,AT,PCjr+color	05Z
Textbook Order Control		5798-RLC	1400									.GB30-1905	Sys/23 Datamaster	1SX
+The Environment: Cycles & Interactions		6024-413	65									0520-1107	PC,XT,AT,PCjr+color	05Z
<u>+The Environment: Cycles &amp; Interactions</u>	School pkg	6024-443	295									0520-1107	PC,XT,AT,PCjr+color	05Z
+Theory Formation: Reflections & Patterns		6024-471	75									0520-1107	PC,XT,AT,PCjr+color	05Z
+Touch Typing for Beginners		6024-339	85									0520-1107	PC,XT,AT,PCjr+color	05Z
+Touch Typing for Beginners	School pkg	6024-363	385									0520-1107	PC,XT,AT,PCjr+color	05Z
TSO Programming Control Facility II	PCF II	5798-CLW	1350			52						.GB21-1987	MVS	1SE
<u>Turtle Power (Feature 4109)</u>		6024-109	55									0520-3917	PC,PCjr,XT	05Z
Turtle Power Activity Book		6024-079	15									0520-1107	Turtle Power PC,AT	05Z
Turtle Power Thinker's Guide		6024-167	11									0520-1107	Turtle Power	05Z
*Vendor Accounts Payable	Career Sch	5796-TCH	1500									.G320-9506	System/36	1S1
Virtual Machine Interactive Executive	VM/IX	5799-BXN	47000									GH20-6410	VM+STIPS (5799-BXN)	3SE
<u>Vocabulary Building Skills (Priv Tutor)</u>		6024-326	55									0520-1107	PC,PCjr,XT,AT,PPC	05Z
+Vocabulary Series: Grades 3-4		6024-350	110									0520-1107	PC,XT,AT,PCjr+color	05Z
+Vocabulary Series: Grades 3-4	School pkg	6024-376	495									0520-1107	PC,XT,AT,PCjr+color	05Z
+Vocabulary Series: Grades 5-6		6024-351	110									0520-1107	PC,XT,AT,PCjr+color	05Z
+Vocabulary Series: Grades 5-6	School pkg	6024-377	495									0520-1107	PC,XT,AT,PCjr+color	05Z
<u>+Vocabulary Series: Grades 7-8</u>	School pkg	6024-352	495									0520-1107	PC,XT,AT,PCjr+color	05Z

<u>Program Title</u>	<u>Short Name</u>	<u>Number</u>	<u>OTC</u>	<u>ILC</u>	<u>MLC</u>	<u>DSO</u>	<u>DSI</u>	<u>DSM</u>	<u>MPL</u>	<u>MLL</u>	<u>Mo</u>	<u>MoreInfo</u>	<u>Environment</u>	<u>TPLS</u>
Volcanos (Earth Science Series)		6024-323		55								G520-1107	PC,PCjr,XT,AT,PPC	0SZ
Waterloo and MATCOM Languages		5793-AAP		4950								.GB30-2339	DOS	0SF
Waterloo and MATCOM Languages for VM		5793-AAP/01		6600								.	9504	0SF
Waterloo HOSTCM		5793-AAN/03		330								.	2003	0SF
<u>Waterloo PC Network Channel Attached</u>		<u>5793-AAN/01</u>		<u>nc</u>								<u>.GB30-2411</u>	<u>2001</u>	<u>NOSE</u>
Waterloo PC Network Standalone Server		5793-AAN		1650								.GB30-2411	DOS+RPS on Series/1	0SF
Waterloo PC Network VM Server		5793-AAN/02		1650								.GB30-2411	2002	0SF
WORD ATTACK! tm		6871-442		49								.GB30-2037	PC,XT,PCjr	1SY
Word Knowledge Skills (Private Tutor)		6024-327		55								G520-1107	PC,PCjr,XT,AT,PPC	0SZ
<u>Writing Private Tutor Courses for the PC</u>		<u>6024-078</u>		<u>14</u>								<u>G520-1107</u>	<u>PC,XT,AT,PCjr,PPC</u>	<u>0SZ</u>
Writing to Read		6360-700		725								G520-1107	PCjr+Speech attachmt	0SZ

## Engineering and Scientific

This section has been enriched by the Fastdraft 7361 computer, the 5080 Graphics System, the System 9000 desktop or benchtop micros plus a few more. The Document Composition Facility (Script) now provides for the merge of text with graphics (GDDM) input—producing imbedded illustrations by Composed Document Printing Facility. Interactive Composition and Editing Facility (ICEF) also is announced recently. It can merge text and graphics and present the viewer a 'softcopy' of the composed document—plus the edit power to cut and paste directly on the display. Its math processor will create and print formulae. These announcements represent a major breakthrough for in-house engineering publishing! CADAM™ has a new release. XENIX™ is a new implementation of UNIX™ on the System 9000. For the PC refer to the rose pages; RS/1 and STATLIB are recommended reading.

E/S<sup>3</sup> PF is a collection of Decision Support and Application Development programs with general application within the E and S communities:

- Design and presentation graphics
- Analysis and simulation
- Engineering and scientific administration

They run on 4341 and 4361s under VM and are prepackaged for very convenient installation for use by the professional and analyst. Ask your marketing representative for details and request the publication G520-0118 on the Order card.

PC/IX is a recent implementation of UNIX™ for the Personal Computer. It consists of a multitasking operating system, data base, command language, assembler, communications, games and the very powerful C compiler. The 8087 Math Coprocessor is supported for floating point, logs and high-precision arithmetic. This is one to watch. An article on PC/IX appears in the rose pages. The reader also should review the contents of the clusters treating Decision Support, Graphics, Instrumentation and Robotics.

Program Title	Short Name	Number	OTC	ILC	MLC	DSO	DSI	DSM	HLP	HML	Mo	MoreInfo	Environment	TPLS
+Academic Information System 4.2	BSD 4.2	5799-CGZ	1715										RT	05C
+Advanced Interactive Executive tm	AIX tm	5669-061	3400									GC23-0784	RT	05H
-Advanced Statistical Analysis	ASTAP	5796-PBH		1350							24	G320-8063	OS/MFT/MVT/VS	21H
+AIX Virtual Resource Manager		5669-060	1000									GC23-0784	RT	05H
APL2 Release 2		5668-899	14000	4170	695	12600	3126	521	37	59		GH20-9214	VM, MVS, XA	15K
+Applix tm IA		5669-100	1995									SV21-8085	RT AIX	05Z
APT Advanced Contouring Release 4	APT-AC	5740-M53		1185								GH20-1423	OS/VS, XT/370	15E
APT Intermediate Contouring	APT-IC	5740-M52		713								GH20-1424	OS/VS	15E
+AT Co-processor Services		5669-057	550									SV21-8028	AIX tm on RT	05H
+BASIC		5669-056	1000									SV21-8018	RT AIX tm	05H
+BASIC Interpreter and Compiler		5669-054	1000									SV21-8018	RT AIX tm	05H
BASIC on 5.25" Diskette	XENIX tm	6419-529	195									GC22-9184	XENIX+System 9000	05W
BASIC on 8" Diskette	XENIX tm	6419-506	195									GC22-9184	XENIX+System 9000	05W
BASIC/MVS Release 2		5665-948		4170	695		3126	521	42	67		GC26-4023	MVS	15K
BASIC/VM Release 2		5668-996	7000	1125	375	6300	843	281	38	61		GC26-4023	VM/SP	15K
C (programming language compiler)		6871-466	350									.GB30-2037	PC, XT, 3270-PC	05Y
C Compiler on 5.25" Diskette	XENIX tm	6179-244	595										XENIX+System 9000	05W
C Compiler on 5.25" Diskette		6419-508	595										CS05	05W
C Compiler on 8" Diskette	XENIX tm	6179-243	595										XENIX+System 9000	05W
C Compiler on 8" Diskette		6419-507	595										CS05	05W
CADAM (R) - CAD Only Entry System		5796-PTH	32760	799								G320-6063	VM/SP	15E
CADAM (R) - CAD/CAM Entry System		5796-PTH/01	37800	922								G320-6063	9680, 9681	15E
CADAM (R) - Data Mgmt Entry System		5796-PTH/02	14616	356								G320-6063	6033, 6133	15E
CADAM (R) - Hard Copy Entry System		5796-PTH/03	12348	300								G320-6063	6034, 6134	15E
CADAM (R) Accounting Information Module		5796-ATH	3550	654	63	2020	399	35				G320-6063	OS/VS, VM+GAM	15E
CADAM (R) APT Interface		5796-ATE	23900	4305	430	13660	2460	246						15E
CADAM (R) APT Source Geometry		5796-BDT	21000	1605	535	14000	1065	353					OS/VS+GAM	15E
CADAM (R) CAD-only Interactive Module		5796-ATA	78700	4650	1400	44970	8610	799				G320-6063	OS/VS, VM+GAM	15E
CADAM (R) CAD/CAM Interactive Module		5796-ATB	90660	16100	1615	51800	9840	922				G320-6063	OS/VS, VM+GAM	15E
CADAM (R) D/B/M Detail Library Feature		5668-853/01	2675	224	74	1675	148	47					2146, 4644, 4624, 2346,	15E
CADAM (R) Data Management Module		5796-ATC	35550	6700	624	20300	4090	356				G320-6063	OS/VS, VM+GAM	15E
CADAM (R) Design/Build/Manage		5668-853	20000	1765	535	13400	1185	395					5796-ATA, ATB, PTH	15E
+CADAM (R) DRAGING Viewing on PC		5796-TBQ	750									G320-0898	5796-TBP+EGA+8087	05Y
+CADAM (R) DRAGING Viewing Program - Host		5796-TBP	1250									G320-0898	VM, MVS+5796-TBQ	15H
CADAM (R) Express	IPO	5750-VME	varies									GH20-6487	VM, 5080 or 3250	V1SE
CADAM (R) Express - Base		5664-286	126000	8560	3315							GH20-6487	5750-VME	15E
CADAM (R) Geometry Interface Module		5796-ATJ	20730	3820	365	11840	2335	208				G320-6063	OS/VS, VM+GAM	15E
CADAM (R) Hardcopy Module		5796-ATD	29910	5550	527	17100	3390	300				G320-6063	OS/VS, VM+GAM	15E
CADAM (R) Installation Productivity - OS		5798-DEX/01	3400									GB21-2753	6018, 6019	15X
CADAM (R) Interactive Design/Manufactng		5668-840/01	12000	2140	256	8400	214	180					6050, 6560, 2374, 6550,	15E
CADAM (R) Statistical Data Module		5796-ATG	2120	372	34	1960	226	19				G320-6063	OS/VS, VM+GAM	15E
CADAM (R) to COMPACT II (R) Interface		5796-BDG	18900	1440	480	12600	963	321					OS/VS, VM+GAM	15E
CADAM (R) 3D Interactive		5668-844	35000	2675	909	24500	1920	640				G320-6063	5668-840	15E
CADAM (R) 3D Mesh Geometry Module		5796-AWR	27510	2910	457	15730	3870	261				G320-6063	OS/VS, VM/CMS	05H
CADAM (R) 3D Piping		5796-BFN	41730	2730	910	26150	1830	610					5668-840	15E
CADAM (R) 3D Surface Geometry Module		5796-AWT	12050	1285	215	6885	1250	123				G320-6063	OS/VS, VM/CMS	05H
CADAM Express Versaplot Color Random		5664-286/01	6250										4532	15E
CADAM Express Workstation Extension		5664-286/02	97720	30330	1185	23620	16850						2113, 4527, 4528	15E
CADAM Geometry Interface Version 2	CADAM (R)	5668-842	24000	4280	480	15400	2800	340				SH20-6491	5668-840	15E
CADAMMAC	CADAM (R)	5668-843	19000	1470	490	13300	1020	340				SH20-6491	5668-840	15E

Program Title	Short Name	Number	QTC	ILC	MLC	DSO	DSI	DSM	HLP	MHL	Mo	MoreInfo	Environment	TPLS	
+CAEDS (R) - CATIA (R) Geometry Transform		5796-TBN	4250										G320-0900	MVS,VM	1SH
+CAEDS (R) Base Version 2.0		5713-AAA	7825		265	5480		185						VM,MVS	1SE
+CAEDS (R) Base 1.0		5669-206	1655											RT	0SH
CAEDS (R) Finite Element Solver		5796-BDM	26470	3655	941	19800	2400	620					G520-3935	5796-BBZ+3277GA,3251	1SE
CAEDS (R) Frame Analysis		5796-AZA	20960	2085	695	15400	1380	460					GE20-0771	MVS/VM+5080/3250	1SE
CAEDS (R) Graphics System		5796-BBZ	49700	3275	1655	34790	23001100						GE20-0771	MVS,VM+3250/5080	1SE
CAEDS (R) Modeler		5796-BFR	77100	7710	2570	53970	54001800						GE20-0771	VM,MVS+5080+GAM	1SE
+CAEDS (R) Object Modeler		5713-AAB	varies		465									Base	VIUE
+CAEDS (R) Object Modeler 1.0		5669-207	6060											RT	0SH
CAEDS (R) System Analysis		5796-BEP	45790	4815	1605	33740	31501050						GE20-0771	MVS,VM+5080/3250+GAM	1SE
+CAEDS (R) System Modeler		5713-AAC	varies		605									Base	VIUE
+CAEDS (R) System Modeler 1.0		5669-208	8230											RT	0SH
+CAEDS Graphics Finite Element Modeler		5713-AAD	varies		600									Base	VIUE
+CAEDS Graphics Finite Element Modeler 1.		5669-209	8940											RT	0SH
+CAEDS Integrated Finite Element Solver		5713-AAE	varies		485									Base	VIUE
+CAEDS System Dynamics Analysis		5713-AAF	varies		1050									Base	VIUE
+CATIA (R) Advanced Surfaces 2.2		5668-831		1410	470		993	331						CATIA Base	1SE
+CATIA (R) Base 2.2 Unlimited CSTU		5668-760/01		4125	1375		2895	965						4800,2230	TISE
+CATIA (R) Base 2.2 4 CSTU		5668-760			685									MVS,VM+3250/5080	TISE
CATIA (R) Basic 3D Design - Standalone		5668-828			1035								G320-6650	Replaced by 5668-761	TISE
+CATIA (R) Building Design		5668-741			400									CATIA Base+Draft 2.2	1SE
CATIA (R) Drafting		5668-827			535								G320-6650	Replaced by 5668-837	TISE
+CATIA (R) Drafting Unltd CSTU		5668-837/01		3210	1070		1070	750						4727,2207	TISE
+CATIA (R) Drafting 2.2 4 CSTU		5668-837			535									CATIA Base	TISE
+CATIA (R) Interactive User Access		5798-DYQ		3000	1000								SH20-0072	CATIA Base	1SH
+CATIA (R) Interface 2.2		5668-832		1020	340		735	245						CATIA Base	1SE
+CATIA (R) Kinematics 2.2 Unltd CSTU		5668-835		1410	470		993	331						CATIA Base	1SE
CATIA (R) Library 2.2		5668-838		1020	340		735	245					G320-6650	CATIA Base	1SE
CATIA (R) Numerical Control		5668-826			288								G320-6650	Replaced by 5668-833	TISE
+CATIA (R) Numerical Ctl Unlimited CSTU		5668-833/01			288									4723,2203	TISE
+CATIA (R) Numerical Ctl 2.2 4 CSTU		5668-833			288									CATIA Base	TISE
+CATIA (R) Robotics 2.2 Unltd CSTU		5668-836		1725	575		1215	405						CATIA Base	1SE
+CATIA (R) Solids Geometry 2.2 Unltd CSTU		5668-834		1725	575		1215	405						CATIA Base	1SE
+CATIA (R) 3D Design		5668-830		1725	575		1215	405						Replaced by 5668-761	1SE
+CATIA (R) 3D Design Unlimited CSTU		5668-761/01		2100	700		1470	490						4802,2240	TISE
+CATIA (R) 3D Design 2.2 4 CSTU		5668-761			350									CATIA Base	TISE
*Circuit Board Design - Circuit Pack 4.1	CBDS	5796-PRP	48600	8355	2785		58351945						G320-9175	VM+5080/3250/3277GA	TISE
Circuit Board Design - Design Verify	CBDS	5796-PRL	23400	2085	695	16380	1455	485					G320-9175	5796-PRP	TISE
CMS/Extended Data Array Capability 1.1		5798-DMA	23000										.SH20-6958	VM/XA Migration Aid	2SH
+Computer-Integrated Electrical Design	CIEDS tm	5668-878	75000		2500	52500	1750							VM+GDDM/graPHIGS	1SE
+Computer-Integrated Electrical Design	CIEDS tm	5669-191	6000											AT	0SG
+Computer-Integrated Electrical Design	CIEDS tm	5669-192	8000											RT AIX	0SH
-Continuous System Modeling - APL	CSMP	5785-KAE	2285		104						24.	G320-6081	5748-AP1		1SH
Continuous System Modeling Program III	CSMP	5734-XS9	2705		123							.GH19-7000	VS1/VS2/VM		1IC
CSMP III - Graphics Feature		5734-XS9/01	9305		423							.GH19-7000	6065,6097		1IC
Data Acquisition and Control Adapter		6024-202	175										G520-1107	DACS adapter+DOS2+	0SZ
Data Communication Service Release 2	CAD/CAM	5668-865	20000	1605	535									MVS,VA,VM	1SE
+Data Management Services		5669-059	500										SV21-8015	RT AIX tm	0SH
Dynamic Simulation Language XT/370		5798-PXJ/01	1000		45								.	3044,3045	0SC
Dynamic Simulation Language/VS	DSL/VS	5798-PXJ	10000		454								.G320-0357	VM,MVS,XT/370	1SH

Program Title	Short Name	Number	OTC	ILC	MLC	DSO	DSI	DSM	HLP	MHL	Mo	MoreInfo	Environment	TPLS
E/S (3) PF Release 2	IPO	5664-283	2000		107	1800					16	26	G520-0118 E/S (3)	25K
-EDX Laboratory Automation		5798-RHB	3960		300							12.	G830-1688 Series/1	15X
EDX Math & Functional Subroutine Library		5719-LM3	502		12								GC34-0137 Series/1	15C
Elementary Math Library XT/370		5799-BTB/01	30										3035	05C
*Engineering & Scientific Subroutine Lib		5668-863				700			525				GC23-0182 Vector Facility	15E
Engineering Simulation Program		6317-031		439									G520-0821 PC, XT, AT+8087+FORTRA	05H
-Engineering/Scientific Support Sys-Entry E/53-Entry		5750-ESE		varies									G520-0118 Replaced by VMES3	VOST
Fastdraft Drawing Mgt to MAPICS Bridge		5796-RRN	2350										System/347361	15X
Fastdraft to IGES Translator		5796-BEB			2285	251					24		05/VS, VM/SP	15X
-Forecasting & Time Series Analysis - API		5796-PFX	4620		420							12.	G320-5664 APLSV, API/CMS, VSAPI	11H
FORTRAN (on eight-inch diskette)	XENIX tm	6294-124	595										GC22-9194 System 9000+XENIX	05E
FORTRAN (on 5.25-inch diskette)	XENIX tm	6294-125	595										GC22-9194 System 9000+XENIX	05E
FORTRAN Compiler Version 2		6024-127	385										G520-3917 DOS2+	05Z
FORTRAN Elementary Math Library	RPQ P81005	5799-BTB	300										GH20-5370 VM, MVS+FORTRAN	15E
FORTRAN H - Extended Exponent Range	XEXP	5796-PKR/01	1890										6043,4	25H
*FORTRAN Language Conversion Program		5668-864	28000										SC23-0145 VM, MVS, XA+DFP	05E
FORTRAN VS - Interactive Debug 2.0 SPE		5668-903			1920	320		1397	F03	26	42		GC26-6114 MVS, VM+5748-F03+LM3	15K
FORTRAN VS Compiler & Library XT/370		5748-F03/01	816		18								3000,3006	05C
*FORTRAN VS Execution Analyzer		5798-DXJ	12500										G126-0139 MVS, XA+VS FORTRAN	15H
FORTRAN VS Interactive Debug XT/370		5668-903/01	1152		25								3006,3010	05C
FORTRAN VS Library XT/370		5748-LM3/01	192		4								3001,3007	05C
FORTRAN 77 Interactive Compiler	Infort	6410-971	275										G520-0345 PC/IX	05H
FORTRAN 77 on 5.25-inch Diskette		6092-526	595										GC22-9194 CSOS Extensions	05M
FORTRAN 77 Professional ANSI Comp+Libr		6024-200	649										G520-1107 8087/80287+DOS 2.1+	05Z
GDDM Graphics Data File - Color Support		5668-860	1100										GA23-0186 MVS, VM+7371/2/3/5	15E
-GDDM Graphics Productivity Option		5796-PRZ	1520										G520-9142 5748-XXH	15X
GDDM Interactive Map Definition	GDDM/IMD	5748-XXH/02		767	214		575	161	22	35			GC33-0100 6084, 2101, 6503, 2301	15K
GDDM Presentation Graphics Feature	GDDM/PGF	5748-XXH/01		767	162		575	121	36	58			GC33-0100 6049, 2102, 6500, 2302	15K
General Purpose Interface Bus Adapter	GPIB	6024-201	89										G520-1107 GPIB+DOS2+	05Z
-General Purpose Simulation System	GPSS-APL	5796-PJG	2175		99							24.	G320-5745 5748-AP1	11H
-General Purpose Simulation System	GPSS	5796-PNN	3585		163							24.	G320-6398 VM/CMS, MVS+PL/I	15H
General Purpose Simulation System V	GPSS	5734-XS2	1515		69								GH20-0825 05, 05/VS	11C
General Purpose Simulation System V	GPSS	5736-XS3	1515		69								GH20-0826 DOS, DOS/VS	11C
Geo-Facilities Data Base Support	RPQ-P09030	5799-BEB	44550		2025							36.	GH20-2482 IMS+5799-AYB	25B
Graphic Data Display Manager	GDDM/Base	5748-XXH		767	159		575	120	36	58			GC33-0100 VM, CICS, IMS, MVS	15K
-Graphic Online Diagram Display	GOLD	5798-CHX	21780		900						24.	G520-6059	MVS/TSO VM/CMS	15H
*Graphical Data Display Mgr/ graPHIGS 1.2		5668-792			590								GAM or GDDM	15E
Graphical Display and Query Facility 1.3	GDDQF	5668-905	20000	1365	455								MVS, VM+GDDM+3270	15E
Graphical File System		5669-062	600										SV21-8060 RT AIX tm	05H
Graphical File System	Metafile	6024-205	189										G520-1107 Graphics/Prof CRT	05Z
Graphical Kernel System	GKS ANSI	6024-203	319										G520-1107 PC, XT, PPC, AT+DOS 2.1	05Z
*Graphics Attachment 3277GA, 5080	RPQ-P09013	5799-AXX	4000		150								GH20-2146 VM/CMS, MVS/TSO	15E
*Graphics Development Toolkit		5669-050	700										SV21-8058 RT AIX tm	05H
-Graphics Development ToolKit		6024-196	385										G520-1107 Replaced by 6280082	05Z
*Graphics Program Generator 3277GA/5080	GPG Rel 2	5668-941		7000	1250								GH20-5620 VM, MVS+5799-AXX+FORTE	15E
*Graphics Terminal Emulator		5669-064	600										SV21-8061 RT AIX tm	05H
Graphics Terminal Emulator		6024-206	319										G520-1107 PC, XT, PPC, AT+DOS2.1+	05Z
High Level Image Processing System	HLIPS	5785-ABB	13530		615								G520-9211 VM+PL/I+HBUS+7350	15H
High-Accuracy Arithmetic FORTRAN Subrout	ACRITH	5664-185/01	150										3002 XT/370+VM/PC	05C
High-Accuracy Arithmetic FORTRAN Subrout	ACRITH 1.3	5666-320	2500										GC33-6163 VSE+5748-F03	15E

Program Title	Short Name	Number	OTC	ILC	MIC	DSO	DSI	DSM	MLP	MML	Mc	MoreInfo	Environment	TPLS
High-Accuracy Arithmetic Subroutine Libr	ACRITH 1.3	5664-185	2500									GC33-6163	VM+5748-F03,5748-LM3	15E
High-Accuracy Arithmetic Subroutine Libr	ACRITH 1.3	5665-337	6000									GC33-6163	MVS,XA+5748-F03	15E
+IMSL Library		5669-107	3500										RT AIX	05Y
Infort	RPQ P09056	5799-BZH			2230	500							VM/IX	05H
Initial Graphics Exchange Spec Processor	IGES 2.1	5668-904	26600		2400	800							5374LM3+5796ATC+ATJ	15E
+INmail tm/INnet tm/File Transfer Program		5669-053	625										AIX tm on RT	05H
INTELLECT tm		5796-PHA	42000	2245								.G320-9161	VSE+5748-XXJ+PL/I	25X
INTELLECT tm		5796-PWC	57000	3050								.G320-9161	MVS+PL/I	25H
-Interactive Circuit Design		5796-PLR	20850	948								24.G320-6164	V\$APL, APLSV	15H
Interactive Executive for System/370	IX/370	5667-126	10000						495	792		GC33-6207	VM+Series/1	T2SK
Interactive Schematics Builder for ACS	RPQ P09061	5799-CAF	8800		400								5799-AHE and BEJ	05C
Laboratory Data Acquisition System	LDAS	5796-AHH			925							24.G320-6095	VSE	15H
Laboratory Data Management System II	LDMS II	5796-AHC	36540	1665								.G320-6080	VSE+CICS	15H
LISP		5798-DQZ	7150	325								.G320-0349	VM	25H
+LP/PROTRAN	IMSL tm	5669-103	2700										RT AIX	05Y
MATH - BASIC		5734-XM8	1320		60							.GH20-1128	CMS,V\$PC	15C
MATH/PC-LIBRARY tm		6187-270	440									.GB30-2037	PC,XT,AT,RT	05Y
+MATH/PROTRAN		5669-104	2100										RT AIX	05Y
Mathematical Linear Programming Extended	MPSX	5740-XM3	16170	735								.GH19-1090	OS/V\$;MVS/XA,XT/370	11B
Mathematical Linear Programming Extended	MPSX	5746-XM2	14100	641								.GH19-1090	DOS/V\$	11B
Mathematics - Procedure Library		5734-XM3	2815	128								.GH20-0854	OS	15C
Mathematics - Subroutine Library	SL-MATH	5736-XM7	3055	138								.GH12-5103	OS/V\$;DOS/V\$	15C
Matrix Generator Report Writer for MPSX	MGRW	5734-XMC	14100	641								.GH19-5012	OS/MFT/MVT	11B
Metric III - Units of Measurement		6871-518	49									.GB30-2037	PC,XT,PCjr	05Y
Metric IV - Linear Units (Feature 9329)		6871-519	49									.GB30-2037	PC,XT,PCjr	05Y
Metric V - Area Density Measurements		6871-520	49									.GB30-2037	PC,XT,PCjr	05Y
Mixed Integer Programming Feature -	MPSX MIP	5740-XM3/01	14100	641								.GH19-1090	6038,6217,6039	11B
Mixed Integer Programming for MPSX	MIP	5746-XM2/01	12120	551								.GH19-1090	6038,6143	11B
MPSX Including MIP XT/370 Feature		5740-XM3/02	1250	62									3015,3016	05C
MSC/case		6187-331	895									.GB30-2037	PC,XT,AT,3270-PC	05Y
MSC/pal 2		6187-330	1995									.GB30-2037	PC,XT,AT	05Y
Multi-User System for Interactive Comput	MUSIC/SP	5664-197		850								.G320-0805	VM+FORTRAN	25E
-Multivariate Time Series Analysis - APL		5796-PLX	4840	440								12.G320-6169	V\$APL	11H
NAG tm FORTRAN PC50 Library		6187-277	345									.GB30-2037	PC,XT,AT,RT	05Y
-Numerical Geometry System - APT-AC Bridge		5785-EAN	7240	330								24.GB21-2608	5785-EAH	15H
-Numerical Geometry System - Advanced		5785-EAJ	29040	1385								24.GB21-2608	5785-EAH	15H
-Numerical Geometry System - Basic		5785-EAH	33880	1540								24.GB21-2608	MVS	15H
Panel 2 Line Art Program		5796-PPA	2065	94								24.G320-6420	VM/370,OS/V\$	15H
Pascal (on eight-inch diskette)	XENIX tm	6294-122	595									GC22-9190	System 9000+XENIX	05E
Pascal (on 5.25-inch diskette)	XENIX tm	6294-123	595									GC22-9190	System 9000+XENIX	05E
+Pascal Compiler		5669-055	1000									SV21-8015	RT AIX tm	05H
PC Interactive Executive	PC/IX	1753-369	989									GH20-6247	PC,XT,XT/370,AT+10MB	05I
PC Interactive Executive Upgrade to 1.1	PC/IX	6317-009	40									GH20-6247	PC/IX 1.0 6428163	05E
PDQ7 V2		5798-CBT		2075								12.GB21-1465	OS/V\$+FORTRAN	15H
+Personal Decision Series - Plans+ Editn		6466-987	355									.GH50-9012	3.5" drive	05Q
+Personal Decision Series, Upg to Plans+		6317-004	170										Plans	05Z
Personal Editor on 5.25" Diskette		6299-923	125									GC22-9268	CS05+9001+Printer	05H
Personal Editor on 5.25" Diskette		6299-931	125									GC22-9268	CS05+9001	05H
Personal Editor on 5.25" Diskette		6419-591	125									GC22-9268	CS05+9002	05H
Personal Editor on 8" Diskette		6299-922	125									GC22-9268	CS05+9001+Printer	05H



Program Title	Short Name	Number	OTC	ILC	MLC	DSO	DSI	DSM	MLP	MML	Mo	MoreInfo	Environment	TPLS
Personal Editor on 8" Diskette		6299-930	125									GC22-9268	CS05+9001	05W
Personal Editor on 8" Diskette		6419-590	125									GC22-9268	CS05+9002	05W
+Personal graPHIGS 1.2		5669-167	1000									SC33-8100	RT AIX	05E
+Plotting System		5669-063	600									SV21-8059	RT AIX tm	05H
Plotting System		6024-204	245									GS20-1107	PC,PPC,XT,AT+DOS2.1+	05Z
+Professional CADAM tm		5669-193	15000										RT AIX tm+graPHIGS	05H
Professional Office System	PROFS	5664-176	22000	5000	895	19790	3745	710				.GH20-5601.VM		25B
PROFS Personal Computer Connection to VM	PROFS/PC2	6410-984	219									.G320-0652	PROFS+ISPF/PC+DOS2+	05H
*Research Queueing Package	RESQ	7798-RSQ	7800									VM, MVS		05E
RM/COBOL tm (on eight-inch diskette)	XENIX tm	6294-120	1250									GC22-9267	System 9000+XENIX	05I
RM/COBOL tm (on 5.25-inch diskette)	XENIX tm	6294-121	1250									GC22-9267	System 9000+XENIX	05E
RPS Mathematical & Functional Subroutine		5719-LM2	502		12							GC34-0138	Series/1	15C
+RS/1 tm		5669-187	5500										RT AIX	05H
RS/1 tm		6317-003	2159										PC+10MB, 3270-PC, AT	05G
+RS/1 tm 8 CSTU		5664-316	23000									.G320-0840	VM+GDDM PGF	15E
+RS/1 tm 40 CSTU		5664-316/01	45000									.G320-0840	4731,4732	15E
+RS/1 tm Unlimited CSTU		5664-316/03	144000									.G320-0840	4731,4732,4733,4734	15E
+RS/1 tm 100 CSTU		5664-316/02	84000									.G320-0840	4731,4732,4733	15E
+SAMNA+ tm		5669-087	1295									SV21-8057	RT AIX	05Z
Scientific Subroutine Lib on 5.25" Disk		6331-471	325									GC22-9262	CS05 Ext+FORTRAN	05W
Scientific Subroutine Library on 8" Disk		6331-473	325									GC22-9262	CS05 Ext+FORTRAN	05W
Scientific Subroutine Library on 8" disk	XENIX tm	6419-369	325									GC22-9262	S/9000+FORTRAN, Pasca	05W
Scientific Subroutine Library 5.25" disk	XENIX tm	6419-472	325									GC22-9262	S/9000+FORTRAN, Pasca	05W
Scientific Subroutine Package	SSP	5798-NYD	800									.GB30-1563	Series/1 + FORTRAN	15X
SCRIPT Mathematical Formula Formatter		5798-DPW	6600		300							.G320-9189	4250+MVS or VM+DCF	15H
Series/1 Input/Output Executive Ver 1.1		5719-EM1	650									SC34-0726	EDX or RPS+5/1-XT/AT	15M
Series/1-PC Connect		5719-CN1	400									0520-0102	RPS and DOS	15L
+SFUN/Library		5669-106	1495										RT AIX	05Y
-Softcopy - a CADAM (R) Drawing Viewer		5796-PNP	7630		347							.G320-6388	MVS, VM+3277GA	15E
+SOLOMON III tm Accounts Payable		5669-090	995									SV21-8041	General Ledger	05Z
+SOLOMON III tm Accounts Receivable		5669-089	995									SV21-8041	General Ledger	05Z
+SOLOMON III tm Address and Mail List		5669-098	395									SV21-8041	General Ledger	05Z
+SOLOMON III tm Database Reporter		5669-099	995									SV21-8041	General Ledger	05Z
+SOLOMON III tm Fixed Assets		5669-095	995									SV21-8041	General Ledger	05Z
+SOLOMON III tm General Ledger		5669-088	995									SV21-8041	RT AIX	05Z
+SOLOMON III tm Inventory		5669-097	995									SV21-8041	General Ledger	05Z
+SOLOMON III tm Job Costing		5669-094	1395									SV21-8041	General Ledger	05Z
+SOLOMON III tm Order Entry/Invoicing		5669-093	995									SV21-8041	Accounts Receivable	05Z
+SOLOMON III tm Payroll		5669-091	995									SV21-8041	General Ledger	05Z
+SOLOMON III tm Purchasing		5669-092	995									SV21-8041	Accounts Payable	05Z
+SOLOMON III tm Sales Analysis		5669-096	595									SV21-8041	OrderEntry/Inventory	05Z
SQL / Data System - Relational Structure	SQL/DS 3.5	5748-XXJ	464					347	144	230		GH24-5012	DOS/VSE, SXX/VSE, VM	25K
STAT - BASIC		5734-XA3	1320		60							.GH20-1027	ITF(DOS/05/TS0), VS	15C
STAT/PC-LIBRARY tm	IMSL	6187-271	440									.GB30-2037	PC, XT, AT, RT	05Y
+STAT/PROTRAN		5669-105	1495										RT AIX	05Y
-Statistical Library - APL		5796-PHH	3165		240							.G320-5688	VSAPL	11H
-Statistics Library - Advanced	STATLIB2	5796-PJT	2795		212							.G320-5811	VSAPL	11H
STATLIB 1		6276-501	150										PC, XT, jr, AT+APL	05R
STATLIB 2		6276-539	150										PC, XT, jr, AT+APL	05R
Storage & Information Retrieval System	STAIRS/VS	5740-XR1	28160		1280							.GH12-5114	05/VS, CICS/VS, IMS/VS	25B

Program Title	Short Name	Number	OTC	ILC	MLC	DSO	DSI	DSH	MLP	MML	Mo	MoreInfo	Environment	TPLS
Storage & Information Retrieval System	STAIRS/VS	5746-XR4	22990		1045							.GH20-1832	CICS/DOS/VS	25B
Storage Tube Simulator		5668-820	2750		300							.GC34-4033	VM+GDDM+FORTRAN	15E
+Structured Query Language/RT Data Base	SQL	5669-058	1000									SV21-8033	RT AIX+Data Mgt	05H
-Textpac 6 Multipass Equation Print	RPQ-P91010	5799-HWK	nc										Displaywriter	N05E
<u>The Scientific Desk tm</u>		6187-278	420									.GB30-2037	PC,XT,AT,RT	05Y
T3 tm Scientific Word Processing System		6187-281	595									.GB30-2037	PC,XT,XT/370,AT,RT	05Y
+UNIRAS tm BIZPACK		5669-115	2595										RASPAK/RASPAK SOLIDS	05Y
+UNIRAS tm GEOINT		5669-110	1595										GEOPAK	05Y
+UNIRAS tm GEOPAK		5669-109	6995										RASPAC/RASPAK SOLIDS	05Y
+UNIRAS tm GIMAGE		5669-112	2595										SEISPAK	05Y
+UNIRAS tm KRIGPAK		5669-111	3550										GEOPAK	05Y
+UNIRAS tm RASPAC		5669-108	3550										RT AIX	05Y
+UNIRAS tm RASPAC SOLIDS		5669-101	4995										RT AIX	05Y
+UNIRAS tm SEISPAK		5669-113	7650										RASPAK/RASPAK SOLIDS	05Y
+UNIRAS tm UNIEDIT		5669-117	2595										RASPAK/RASPAK SOLIDS	05Y
+UNIRAS tm UNIGRAPH		5669-114	2995										RT AIX	05Y
+UNIRAS tm UNIMAP		5669-102	7650										RT AIX	05Y
-US Geographic Demographic System		5798-DJQ	2365									.GB21-3020	VM/CMS,MVS/TSO,GDDM	15X
Utilities I		6276-517	20										PC,XT,jr,AT,3270-PC	05R
Utilities II		6276-520	20										PC,XT,jr,AT,3270-PC	05R
Utilities III		6276-574	20										PC,XT,jr,AT,3270-PC	05R
+Vector Processing Subsys/ Vector Facilit		5665-368	40000			30000						GC23-0625	Vector Facility	15E
Vector Processing Subsystem	VPSS	5744-CK2	nc									GC24-5182	OS/VS+3838	N05S
Vector Processing Subsystem / XA	VPSS/XA	5665-301	50000			37500				58	93	GC28-1204	MVS/XA+3838	15K
Virtual Machine Interactive Executive	VM/IX	5799-BXN	47000									GH20-6410	VM+SIIPS (5799-BXN)	35E
Virtual Machine/System Product Rel 4	VM/SP	5664-167				443						GC20-1838	S/370,4300,303x,308x	25K
VM/SP Entry Engineering/Scientific Enhn		5664-301/01	varies		569	9000								V25M
VM/SP Entry Engineering/Scientific Enhn		5750-ES1/01	varies		569	9000								V25M
VM/SP System Base Rel 2	IPD	5750-ES1	varies									0520-0118	VM	V05M
+VS FORTRAN Compiler Library& Debug 2.2.1		5668-806			750			563				SX26-3751	VM,MVS,XA+DFP	15E
+VS FORTRAN Library 2.1.1		5668-805			200			150				SX26-3751	VM,MVS,XA+DFP	15E
WordMARK tm		6187-276	495									.GB30-2037	PC,XT,AT,RT	05Y
+Workstation Publishing Software tm		5669-086	1995									SV21-8084	RT AIX	05Z
XENIX tm (on ten eight-inch diskettes)		6331-444	995									GC22-9248	System 9000	05E
XENIX tm (Preinstalled on 1-side hardisk)		6331-443	995									GC22-9248	System 9000	05E
XENIX tm (Preinstalled on 2-side hardisk		6419-595	995									GC22-9248	System 9000	05E
-XY/750 Plotter Support for GDDM		5798-DMK	1540									.GB21-3054	TSO,CMS	15X
+3090 Vector Facility Simulator		5798-DWF	9500									GC23-0340	VM	15H
+3278/79 Emulation		5669-052	500									SV21-8032	AIX tm on RT	05H
7361 Fastdraft System		5719-GP1			1070	160					36	GC34-0513	7361+3101+3251	25X
737x Industry Std Plotting Commands		5796-BDZ	395									GC23-0120	MVS,VM,RS232+FORTRAN	15X

Program Title	Short Name	Number	OTC	ILC	MLC	DSO	DSI	DSH	MLP	MML	Mo	MoreInfo	Environment	TPLS
Advanced Banking Terminal Support 3600	BTAP/CE	5796-PTJ	165									.G320-9147	5796-AZX	15X
+Advanced Program-to-Program Communicatns		5732-025	8000									GX34-1000	5732-028+5732-010	15M
All Items File Translation Facility 3694	CHX/GS	5798-RFJ	1210	110								12.GB30-1645	System/34+5748-F53	15X
All Items File Translation Facility 3694	CHX/GS	5798-RQW	1650									.GB30-2238	S/36+5748-F53	15X
-APL Econometric Planning Language	EPLAN	5796-PDH	2705	246								12.G320-5535	APLSV	11H
-Application Support for 3624 CTF		5798-RDP	9680	880								12.GB30-1626	System/34	15X
Application Support for 3624 CTF		5798-RRA	13200									.GB30-2243	System/36	15X
Automated Teller Host Enhancements	FAAT	5796-BBH		1050								12.G320-6428	DOS/VS, CICS/VS	15H
Automated Teller Host Support	FAAT	5796-BBJ		2235								12.G320-6428	CICS/DOS/VS	15H
-Automated Teller System		5798-DHK		540	207							12.GB21-2909	3600.4700	15X
+BANCS* tm 4700 Account Opening		6430-784	750										PC,XT,AT+4700	05E
+BANCS* tm 4700 Consumer/Consumer Loan		6430-786	1995										PC,XT,AT+4700	05E
+BANCS* tm 4700 Mortgage Loan		6430-785	1995										PC,XT,AT+4700	05E
+BANCS* 4700 Generator		6430-788	4500										PC,XT,AT+4700	05E
+BANCS* 4700 Mtg,Consumer/Consumer Loan		6430-787	2995										PC,XT,AT+4700	05E
Bank Teller Ap - Commercial Extensions	BTAP-CE	5796-AZX	1580									.G320-6396	3600	15H
Banking Administration		5798-DTK	550									.G320-0363	Displaywriter	15X
-Bond Quote System		5796-AXY			185							12.G320-6172	MVS/TSO	15H
Branch Electronic Reports System - Host	RPQ P90017	5799-BNX	35000									SH17-5500	4700+MVS	15E
Branch Electronic Reports System - 4700	RPQ P90018	5799-BZN	220									SH17-5500	BERS_Host	15E
BRANCHBANKER tm 4700		6430-783	500									GB20-2037	PC AS (6934406)	05E
Check Proc Archive Retrieval & Suspense		5796-BTW	8800									.G320-9153	OS/VS	15H
Check Processing / Communications		5798-RKH	440									.GB30-1851	S/34 + 5748-F53	15X
Check Processing / Sort 3694	CHX/GS	5798-RKG	440									.GB30-1853	S/34 + 5748-F53	15X
Check Processing Control - CHX Interface	CPCS/CHX	5798-DKH	3190									.GB21-2997	MVS	15X
Check Processing Control System	CPCS	5734-F11		1375								GH20-1008	OS/MFT/MVT/VS	21B
Check Processing Executive / VS	CHX/VS	5748-F54		346								GH20-2444	OS/VS, DOS/VS SE VTAM	15B
Check Processing Executive / 3694	CHX/3694	5748-F53	2100	66								GH20-2444	5748-F54	15B
Check Reports	EPSS	5748-F13	16500	552								GH20-2136	OS/VS, DOS/VS	11B
COBOL Support for 4700 Finance System	FCS	5666-266		1070	375		802	280	66	106		GL23-0078	DOS/VSE	15K
COBOL Support for 4700 Finance System	FCS	5668-987	1495	520			1120	388	82	131		GL23-0078	OS/VS, MVS/XA	15K
Commercial Bank Club Accounting	CBAS CLB	5746-F66	618	238								.GH20-2497	DOS/VSE+CBAS Base	15X
Commercial Bank Commercial Loan Acctg	CBAS CML	5746-F68	1615	618								.GH20-2497	DOS/VSE+CBAS Base	15X
Commercial Bank Demand Deposit Accounting	CBAS DDA	5746-F61		418								.GH20-2497	DOS/VSE+CBAS Base	15X
Commercial Bank General Ledger Accounting	CBAS GNL	5746-F64		269								.GH20-2497	DOS/VSE+CBAS Base	15X
Commercial Bank Installment Loan	CBAS ILN	5746-F67		979	374							.GH20-2497	DOS/VSE+CBAS Base	15X
Commercial Bank Savings Accounting	CBAS SAV	5746-F62		378								.GH20-2497	DOS/VSE+CBAS Base	15X
Commercial Bank System Base Support	CBAS Base	5746-F60		508								.GH20-2497	DOS/VSE and CIF/VS	15X
Commercial Bank System Revolving Credit	CBAS RVC	5746-F65		212								.GH20-2497	DOS/VSE+CBAS Base	15X
Commercial Bank Time Deposit Certificate	CBAS TCD	5746-F63		292								.GH20-2497	DOS/VSE+CBAS Base	15X
Communication Support Facility 3694	CHX/GS	5798-RQY	825									.GB30-2238	S/36+ICF+5748-F53	15X
+Communications & Systems Management		5732-026	5000									GX34-1000	5732-027+5732-010	15M
Consumer Terminal Access Method	RPQ-P83000	5799-AZN		361								GH20-4576	3624 DEVICES	15C
Corporate Cash Manager	CCM	5601-006	4400									.GH20-0391	PC,XT	05H
CPCS / Return Item Feature		5734-F11/02		8825	882								2101.4535	25B
CPCS Installed User Educational Guide		5796-001	2700									G320-5807	5734-F11	05H
CPCS Online Adjustments - II		5798-CLD		818								12.GB21-1948	OS/VS CPCS	15H
CPCS Online Adjustments - II Enhanced		5798-CLD/01		208								GB21-1948	9562	15E
CPCS Sort Table Generator		5798-DNG	13200	600								.GB21-3104	MVS,VS1	15H
CPCS User Editing		5798-DMG	2915									.GB21-3046	OS/VS	15X

Program Title	Short Name	Number	OTC	ILC	HLC	DSO	DSI	DSH	HLP	HML	Mo	MoreInfo	Environment	TPLS
CPCS 3890 Feature		5734-F11/01			636								GH20-1970 6081,6091	21B
Credit / Check Authorization		5798-DEM		7875	3015								12.GB21-2748 MVS, D0S/VSE, CICS/VS	15X
Customer Information Facility	CIF/VS	5740-XYB	63880		2880								.GH20-2018 IMS/VS	25X
Customer Information Facility	CIF/VS	5740-XYC	56780		2735								.GH20-2018 CICS/OS/VS	25X
Customer Information Facility	CIF/VS	5746-XXS	38950		1500								.GH20-2018 CICS/D0S/VS	25X
Customer Information File Banking	CIF	5726-F11	4000		210								.G360-0050 System/34	11X
Demand Deposit Accounting Banking	DDA	5726-F12	3600		188								.G360-0050 System/34	11X
Deposit Processing		5740-F13			2245									05C
-DFAS II File / Record Definitions	DFAS-II	5798-RQN	330										.GB30-2140 Retrieval/34	15X
Direct Multinetwork Link to S.W.I.F.T.	DMNL	5666-269		3500	820								.GH12-5142 CICS/D0S/VS+5668-926	15K
Direct Multinetwork Link to S.W.I.F.T.	DMNL	5668-964		6525	1595								.GH12-5142 IMS/VS+5668-926	15K
Direct Multinetwork Link to S.W.I.F.T.	DMNL	5668-965		4280	1280								.GH12-5142 CICS/OS/VS+5668-926	15K
Direct S.W.I.F.T. Link	DSL	5740-F15	42130		1915								.GH12-5133 CICS/OS/VS	15X
Direct S.W.I.F.T. Link	DSL	5740-F16	49940		2270								.GH12-5133 IMS/VS	15X
Direct S.W.I.F.T. Link	DSL	5746-F14	34430		1565								.GH12-5133 CICS/D0S/VS, D0S/VSE	15B
Direct S.W.I.F.T. Network Link	DSNL	5668-926		2000	299								.GH12-5142 CICS/VS, IMS/VS+BTAM	15K
Direct S.W.I.F.T. Terminal 500 Link		5668-857	24200		1100								.GH12-5149 DMNL+ST500+3705/25	15B
Document Control Section Edit 3694	CHX/GS	5798-RFL			100								12.GB30-1645 System/34+5748-F53	15X
DOSCHECK Installed User Education Guide		5796-002	1700										G320-6086 5746-f12	05H
DPX Mortgage Banking System		5798-DDN	6225		566								12.GB21-2691 DPX/BASE	15H
Electronic Payment Sys Suppt/Check Procg	OSD0SCHECK	5796-PYK	15400										.G320-0218 VSI, MVS+3890	15H
Electronic Payment Systems	D0SCHECK	5746-F12			1515								.GH20-1939 D0S/VS	21B
Financial Information System	BACIS/FIS	5798-CYC	24880		984								.GB21-2364 D0S/VS/VSE	15X
Financial Information System Online	BACIS/FIS	5798-CYB	10390		409								.GB21-2367 D0S/VS/VSE+5798-CYC	15X
Financial Management System		5665-309		10110	1815	75801360	280	448					.GH19-6274 MVS, XA+IMS/DB+COBOL	25K
Financial Management System		5666-263		3090	1180				2315	888	125	201	.GH19-6196 VSE+DL/I+COBOL	25K
-Financial Planning and Modeling		5796-ZFD	2970										.GB30-2249 System/38	15X
-Financial Planning and Report Generating		5796-ZHT	385										.GB30-2340 UCSD p-System tm R/D	15X
-Financial Planning System	FPS	5798-CXP	4645										.GB21-2335 MVS+VSAPL	15H
Financial Planning System II		5798-DCH	6110		263								.GB21-2622 VM	15X
Financial Services Terminal Support	RPQ-P09004	5799-ARD			622								.GH20-4531 D0S/VS CICS/VS	11C
Financial Services Terminal Support	RPQ-P09005	5799-ARE			795								.GH20-4522 CICS/OS/VS	11C
Financial- Payment Processing A/P Rel 3	IFS-4	5668-970	6820	562	310								.GH20-2467 CICS+IMS+PL/I	15B
Forms / Passbook Printer - 4720 FCS	RPQ-P90003	5799-BJE	1500										D0S/VSE, OS/VS+3600	15L
Funds Allocation System	FAS	5796-PYZ	27000										.G320-9222 MPX+PL/I Transients	25H
IMS Data Base Prod (Includes IRLM)	IMS/VS	5665-332/01		2400				1800	7001120				2116, 4558, 9558	25K
IMS Logging Feature	IMS/VS	5665-332/02		400				300	60	96			5196, 6008, 6508	25K
Installation Loan Accounting Banking		5726-F14	4100		213								.G360-0050 System/34	11X
MICR Document Fine Sort		5798-BCN	2210		201								12.GB21-1327 D0S/VS	11H
-MICR Program Generator		5798-RBE	759		69								12.GB30-1476 System/34	15H
+MICR User Editing - CHX/3694, CHX/VS		5798-DRE	7500										.G320-9250 OS/VS, VSE	25H
NPDA 3600 Threshold Analysis		5668-983/01		1210	176		907	132	19	30			GC34-2061 6008, 6500, 2155, 2355	25K
NPDA 3600/4700 Threshold Analysis		5665-321/01		1210	176		907	132	19	30			2116	25K
-Online Reject/Reentry Check Processing		5798-NZY	550		50								12.GB30-1445 System/34	15H
-Online Reject/Reentry Testing Aid		5798-GWE	1350		123								12.GB21-2264 OS/VS	15H
-PC/3600 Trans Documentor & Xref		5796-ATR			150								12.G320-6067 D0S/VS, OS/VS, CICS/VS	15H
Pers DS Plans+ Upgrade Kit (from Plans)		6410-939/01	150										.Plans	05G
Personal Decision Series - Plans+ Editn		6410-972	335										.Data Edition	05G
+Primary Systems Network Architecture		5732-028	4500										GX34-1000 5732-027	15M
Program Customizer / 3600 4700	PC/3600	5740-F11			2380								.GH20-1587 OS/VS	11B

Program Title	Short Name	Number	OTC	ILC	MLC	DSO	DSI	DSM	MLP	MML	Mo	MoreInfo	Environment	TPLS
Programmed Eval of Contract Option Strat		6276-614	250										PC,XT,jr,AT,3270-PC	0SR
-Proof-of-Deposit / Transit		5798-NMW	2075		189								12.GB30-1141 System/34	15H
S.W.I.F.T. BSC EP Support	RPQ-Y96612	5799-AQT	3135		98								.SC19-5017 TCAM	1SA
S.W.I.F.T. for ACF/NCP/V5	RPQ-Y96614	5799-HRF	nc										.SC19-5016 3704/3705	NOSS
Savings Accounting Banking		5726-F13	3550		184								.G360-0050 System/34	11X
+Secondary Systems Network Architecture		5732-029	5500										GX34-1000 5732-027	15M
Signature Verification		5798-DRK	16500		750								.3209-244 System/38	15H
Sort Preparation Facility 3694	CHX/GS	5798-RQZ	825										.GB30-2238 System/36+5748-F53	15X
SSP Data Encryption Std for Banking	DES	5727-SS1/06	200			175							GC21-9021 4512,4605	15A
+Systems Network Architecture Interface		5732-027	3000										GX34-1000 System/88	15M
Table Preparation Facility 3694	CHX/GS	5798-RFK			100								12.GB30-1645 System/34+5748-F53	15X
Table Preparation Facility 3694	CHX/GS	5798-RQX	1650										.GB30-2238 5/36+5748F53+5798RFL	15X
1419 Proof-of-Deposit MICR Capture		5798-DDC	3630		330								12.GB21-2668 D05/V5E	15H
3600 Host Support		5747-BR1	nc										GC27-0006 V5E,SSX	NOSS
3600 Host Support Finance Communication		5744-CA3	nc										GC27-0006 D5/V5	NOSS
3600 4700 Administrative Applications		5748-F55	1368		41								GH20-2414 IMS/V5, CICS/V5	15B
3600 4700 Finance Communication	FSF	5726-SS1/02	6200		254	4650		190					G580-0295 6010,6513,6557,6510	15A
3600 4700 Program Customizer	PC/3600	5746-F11			1315								GH20-1587 D05/V5E	11B
3614 3624 Consumer Online Transactions	COLTS	5740-F51	22900		802								GH20-2019 05/V5	11B
3614 3624 Consumer Online Transactions	COLTS	5746-F57	21150		741								GH20-2019 D05/V5E	11B
3624 Teller Machine IMS/V5 Host Support		5796-BBG			1725								12.G320-6427 MVS,ACF/VTAM	15H
3694 Application Macro Expansions		5748-F56	2600		93	1950		70	19	30			GC31-0012 05/V5,D05/V5E	15K
3694 Check Processing Executive/General		5798-DQK	4950										.G320-0372 System/38	15H
3694 Debug Test Aid for User Edit Progs		5798-DNJ	1100										.GB21-3119 V5E,05/V5	15X
3694 Independent Release		5658-001	nc										GC31-0013 05/V5,D05/V5E	NOSS
3890 Cycle Sort		5798-CQX	4925		448								12.GB21-2165 D05/V5, 5798-BDC	15H
3890 Document Processor Support		5746-DC1	2180		122								GC31-0001 D05/V5E	15B
3890 D05/V5E Offline Fine Sort II		5798-CFD/01			88								12.GB21-1662 9560	15H
3890 Offline Sort		5798-CFD	1635										.GB21-1662 D05/V5+5798-BDC	15H
3890 Offline Sort Enhancements		5798-BDY	3140										.GB21-1383 05/V5	15H
3890 On-Us Editing		5798-DBL	2540		231								12.GB21-2559 D05/V5E	15H
3890 Online Fine Sort		5798-CMR	10210		929								12.GB21-2276 D05/V5 D05/V5E Re1	15H
3890 Online Fine Sort - CPCS		5798-CRC	10890		990								12.GB21-2170 05/V5	15H
3890 Online Fine Sort Enhancements		5796-AYF			185								12.G320-6329 5798-CRC and CPCS	15H
3890 OS/V5 Programming Testing Aid		5798-CBG	3480										.GB21-1444 D05/V5 05/V5 D05/V5E	15H
3890 Programming Test Aid Enhancement		5798-CBG/01			40								12.GB21-1444 9516	15H
3890 Statement Preparation Sort		5796-ALP	3630		330								12.G320-5715 05/V51	15H
4700 ABC Upgrade from Version 1 (5799BQY)		5799-BZE/01	450										4676	15E
4700 Advanced Branch Controller Version2		5799-BZE	1200										4700 Host Support	15E
4700 AMG Upgrade from 5799-BQZ	FCS	5668-934/01	13500										4712	15K
4700 AMG Upgrade from 5799-BZD		5668-934/02	10500										4713	15K
+4700 Controller Resource Manager Ver 2		5668-753	1700										4700 FCS	15M
4700 FCS CRM - Upgrade from 5799-BQY		5668-935/01	550										4714	15K
4700 FCS CRM - Upgrade from 5799-BZE		5668-935/02	450										4715	15K
4700 FDS Upgrade from V1 (5799-BQZ)		5799-BZD/01	7500										4675	15E
4700 Finance System - Adv Branch Control	FCS	5799-BQY	800										05/V5,V5E+5668-969	15E
4700 Finance System - Applic Map Genertr	RM4700AMG	5668-934	21000		1495	18900			48	77			5668-969+5748-XXH	15K
4700 Finance System - Controller Manager	RM4700	5668-935	1300						38	61			GC31-0508 5668-989+5668-934	15K
4700 Finance System - Format Distribut	FCS	5799-BQZ	11000		979								5668-989+5799-BQY	15E
4700 Finance System - Host Support 1.5		5668-989			2070	647		1555	484	181	290		GC31-2019 MVS,XA,V5E,SSX	15K

<u>Program Title</u>	<u>Short Name</u>	<u>Number</u>	<u>OTC</u>	<u>ILC</u>	<u>MLC</u>	<u>DSO</u>	<u>DSI</u>	<u>DSH</u>	<u>MLP</u>	<u>MHL</u>	<u>Mo</u>	<u>MoreInfo</u>	<u>Environment</u>	<u>TPLS</u>
4700 Format Distribution Services V2		5799-BZD	16500		1470								4700 Host Support	1SE
4700 Online Terminal Support	RPQ-P90002	5799-BGB	1600		62							GC31-0022	System/34 and 36	15B
4700 PC Application Services		6934-406	300									6221-2493	PC,XT	05H
+4700 Resource Manager - Platform Applic		5668-752	100										4700 CRM Ver 2	15M
+4700 Resource Manager - Teller Applicatn		5668-751	350										4700 CRM Ver 2	15M
+4700 Resource Mgr - Consumer Loan Applic		5668-778	1200										4700 CRM Ver 2	15M
4730 Availability Mgt-Batch Reporting		5668-873	14000			995	12600			44	70	GC31-0523	VSE,OS/VS+COBOL	15K
4730 Customization Image Builder Rel 2	PBM	5668-870	6000			555	5400					GC31-0029	SSX,VSE,VS1,MVS,XA	11E
4730 Financial Application Extension	RPQ P90020	5799-BZR	23000										CICS	15X
+4730 Financial Application Extension IMS		5799-CJN	45000										MVS	15H
4730 Network Monitor	PBM	5668-871	20000			1710	18000			43	69	GC31-0033	CICS/VSE,VS,IMS/VS	15K
+4730 Remote Network Monitor		5668-872	2500									GC31-3572	4700 CRM Ver 2	15M
5250 Emulation for the 4700	RPQ P90021	5799-BZL	1995									SC31-3588	Systems/34, 36, 38	15E

## General Business

Programs in this Cluster share the characteristic of very broad applicability—not specific to any class of enterprise. Although the Cluster name includes the word 'Business' it is generic, because these offerings are used in non-profit, tax-exempt, governmental and other institutions. Many are the bread and butter applications like general ledger, billing,

payroll, inventory, sales analysis, payables, etc. On the other hand, there are the sophisticates of planning and decision support used by the knowledge workers in any institution. The reader is reminded to notice the Environment required by the program.

<u>Program Title</u>	<u>Short Name</u>	<u>Number</u>	<u>OTC</u>	<u>ILC</u>	<u>MLC</u>	<u>DSO</u>	<u>DSI</u>	<u>DSH</u>	<u>MLP</u>	<u>HML</u>	<u>Mc</u>	<u>MoreInfo</u>	<u>Environment</u>	<u>TPLs</u>
A Departmental Reporting System	ADRS/PC	6428-092	355									.GH20-0023	PC	05X
Accounts Payable	BMAS	5726-XBC	1700									.G280-0231	System/34	11X
Accounts Payable	BMAS	5727-XB3	1980									.GB30-2744	System/36	15B
Accounts Payable - Disk	BMAS	5715-XZ3	1790									.G280-0231	Sys/23 Datamaster	11X
Accounts Payable Mgmt Info Multi Ind	BMAS	5715-XX3	1225									.GB30-2744	Sys/23 Datamaster	11X
-Accounts Payable Online		5798-RFT	2055		187						12	.GB30-1670	System/34	15X
Accounts Receivable	BMAS	5726-XBA	1700									.G280-0230	System/34	11X
Accounts Receivable	BMAS	5727-XB4	1980									.GB30-2722	System/36	15B
Accounts Receivable - Disk	BMAS	5715-XZ4	1790									.G280-0230	Sys/23 Datamaster	11X
Accounts Receivable by BPI tm		6024-027	425									.G520-3917	PC	05Z
Accounts Receivable Mgmt Info Multi Ind	BMAS	5715-XX4	1225									.GB30-2722	Sys/23 Datamaster	11X
Alpha Search Inquiry System	ASIS	5736-N14	6375		303							.GH20-1188	CICS/05/D05/VS,CMS	15C
-APL Econometric Planning Language	EPLAN	5796-PDM	2705		246						12	.G320-5535	APLSV	11H
-BICARSA Online		5798-RFR	5445		495						12	.GB30-1667	System/34	15X
Billings	BMAS	5726-XB8	1700									.G280-0229	System/34	11X
Billings	BMAS	5727-XB7	1980									.GB30-2700	System/36	15B
Billings - Disk	BMAS	5715-XZ7	1790									.G280-0229	Sys/23 Datamaster	11X
Billings Mgmt Info Multi Ind	BMAS	5715-XX7	1225									.GB30-2700	Sys/23 Datamaster	11X
+Bus Mgt Series Local Area Network Access	LANAE	6410-965	245									.G580-2002	PC Network	05G
Business Management Series Acctg Extend		6410-958	275										PC+10MB	05G
Business Management Series Accts Payable		6410-951	775									.GH30-9013	Data Edition	05G
Business Management Series Accts Receive		6410-952	775									.GH30-9013	PC+10MB	05G
Business Management Series Finance Exten		6410-957	275										PC+10MB	05G
Business Management Series Gen Ledg Trng		6410-959	95									.GH30-9016	General Ledger	05G
Business Management Series Inventory		6410-955	775									.GH30-9013	PC+10MB	05G
Business Management Series Ord Entry/Inv		6410-954	775									.GH30-9013	PC+10MB	05G
Business Management Series Payroll		6410-953	775									.GH30-9013	PC+10MB	05G
Business Professional System	BPS	5750-AAL	varies									G520-0007	VM/SP	V
Business Report Applic Develop Syst	BRADS	5727-BR1	2225									.GH30-2576	System/36	153
Display Information Alpha Search	DIF	5714-XR1	3610		119	2560		89				.GH30-0145	System/38	11J
Display/Write Legal Support		6024-190	179									G520-3917	Display/Write 2	05Z
Dollars and Sense tm		6871-482	180									.GB30-2037	PC,PCjr	05Y
Electronic Spreadsheet		5798-RRH	577									.GB30-2343	System/36	15X
Energy Conservation System II		5798-R1D	4480									.GB30-1912	Series/1	15X
Energy Facility Control Power Mgmt	FC/PM1	5719-U11	6515								48	.GC34-0063	Series/1	15C
Financial - Posting & General Ledger R3	IFS-1	5668-967	22220		1010							.GH20-2467	CICS+IMS+PL/I	15B
-Financial Desk Calculator		5796-ZEL	352									.GB30-2093	System/38	15X
Financial Desk Calculator		5796-ZGM	319									.GB30-2281	System/36	15X
-Financial Planning and Modeling		5796-ZGN	2530									.GB30-2251	System/36	15X
-Financial Planning and Report Generating		5796-ZHT	385									.GB30-2340	UCSD p-System tm R/D	15X
-Financial Planning System	FPS	5798-CFX	4770		434						12	.GB21-1705	VM/CMS with APL/CMS	11H
-Financial Planning System	FPS	5798-CXP	4645									.GB21-2335	MVS+VSAPL	15H
Financial- Open Item Acctg A/R A/P Rel 3	IFS-3	5668-969	9855		448							.GH20-2467	CICS+IMS+PL/I	15J
Financial-Status P&L Balance Sheet Rel3	IFS-2	5668-968	5100		232							.GH20-2467	CICS+IMS+PL/I	15B
-Fixed Asset Accounting & Control II		5798-RJH	2310									.GB30-1787	System/34	15X
General Accounting by BPI tm		6024-026	425									.G520-3917	PC	05Z
General Ledger	BMAS	5726-XBB	1700									.G280-0232	System/34	11X
General Ledger	BMAS	5727-XB2	1980									.GB30-2733	System/36	15B
-General Ledger & Financial Acctg		5798-RFM	1815		165						12	.GB30-1673	System/34	15X
General Ledger & Postings Release 3	IFS-1	5746-F52	19750		898							.GH12-5120	CICS+DL/I+PL/I	15F



Program Title	Short Name	Number	OTC	ILC	MLC	DSO	DSI	DSM	HLP	MML	Mo	MoreInfo	Environment	TPLS
General Ledger - Disk	BMAS	5715-XX2	1790									.G280-0232	Sys/23 Datamaster	11X
General Ledger Mgmt Info Multi Ind	BMAS	5715-XX2	1225									.GB30-2733	Sys/23 Datamaster	11X
Inventory Accounting	BMAS	5726-XB9	1700									.G280-0233	System/34	11X
Inventory Accounting	BMAS	5727-XB6	1980									.GB30-2711	System/36	15B
<del>Inventory Accounting - Disk</del>	<del>BMAS</del>	<del>5715-XX6</del>	<del>1790</del>									<del>.G280-0233</del>	<del>Sys/23 Datamaster</del>	<del>11X</del>
Inventory Accounting Mgmt Info Multi Ind	BMAS	5715-XX6	1225									.GB30-2711	Sys/23 Datamaster	11X
Inventory Control by BPI tm		6024-030	425									.G520-3917	PC	05Z
ISPF / Program Development Facility	ISPF/PDF	5665-268		1350	352		1015	264	30	48		.GC34-2078	MVS/T50,MVS/XA	15K
Job Cost System by BPI tm		6024-029	550									.G520-3917	PC	05Z
<del>Lease vs Purchase Analysis</del>	<del></del>	<del>5798-AJK</del>	<del>407</del>		<del>37</del>							<del>12.GB21-0541</del>	<del>DOS/05</del>	<del>11H</del>
<del>Logicalc (R)</del>	<del></del>	<del>5796-ZDA</del>	<del>214</del>									<del>.GB30-1976</del>	<del>5608-MS1</del>	<del>15X</del>
Membership and Mailing List System		5726-K11	2950		132							.GH30-0454	System/34	11C
Multiplan (R)		6024-022	250									.G520-3917	PC	05Z
OFFICE/38 Applications Made Easy	AME	5714-XE1	4400									.GB30-1952	System/38	15X
<del>Open Item Accounting A/R A/P Rel 3</del>	<del>IFS-3</del>	<del>5746-F54</del>	<del>8775</del>		<del>399</del>							<del>.GH12-5120</del>	<del>CICS+DL/I+PL/I</del>	<del>15E</del>
<del>OXYCALC (R)</del>	<del></del>	<del>5796-PHG</del>	<del>8000</del>									<del>.G320-9167</del>	<del>VM,MVS+GDDM</del>	<del>15X</del>
P&L and Balance Sheet Release 3	IFS-2	5746-F53	4375		199							.GH12-5120	CICS+DL/I+PL/I	15E
Payment Processing A/P Release 3	IFS-4	5746-F55	6600		300							.GH12-5120	CICS+DL/I+PL/I	15E
Payroll	BMAS	5726-XB8	1700									.G280-0234	System/34	11X
<del>Payroll</del>	<del>BMAS</del>	<del>5727-XB5</del>	<del>1980</del>									<del>.GB30-2755</del>	<del>System/36</del>	<del>15B</del>
Payroll - Disk	BMAS	5715-XX5	1790									.G280-0234	Sys/23 Datamaster	11X
Payroll by BPI (R)		6024-028	425									.G520-3917	PC	05Z
Payroll Mgmt Info Multi Ind	BMAS	5715-XX5	1225									.GB30-2755	Sys/23 Datamaster	11X
Personal Decision Series - Attachmt/MVS		5665-336	22000		1000							.GH30-9028	VTAM+NCP+ISPF+PC,XT	15E
<del>Personal Decision Series - Data Edition</del>	<del></del>	<del>6410-936</del>	<del>275</del>									<del>.GH30-9012</del>	<del>All ex PCjr+DOS2 up</del>	<del>05G</del>
+Personal Decision Series - Data Edition		6466-983	275									.GH30-9012	3.5" drive	05G
Personal Decision Series - Mailing Label		6410-942	75									.	Data Edition	05X
<del>Presentation Graphics, Three-Dimensional</del>	<del></del>	<del>5798-DGP</del>	<del>1910</del>									<del>.GB21-2867</del>	<del>VM/CMS, MVS, GDDM</del>	<del>15H</del>
VERSAPLAN		5798-RLG	165									.GB30-1925	Sys/23 Datamaster	11X
<del>Work Station Search Facility</del>	<del>WSF/38</del>	<del>5714-WS1</del>	<del>827</del>									<del>.GH30-0458</del>	<del>System/38</del>	<del>15D</del>
Work Station Search Facility	WSF/36	5727-XR1	935									.G580-0212	System/36,S/36 PC	15B

# Graphics

A few years ago the majority of graphics programs was for engineering and scientific applications. Today there is an enormous increase in business usage. This can be observed from a quick scan of the new products in Clusters of Text and Office, Decision Support and PC programs.

For the E and S community, recent announcements are: the 5080, the System 9000 and the Fastdraft plus the XY/750 Plotter and the 3270-PC Graphics models. Major new offerings in the CADAM™, CAEDS™, CATIA™ families are presented. And for very specialized interests, a Cluster entitled Instrumentation and Robotics is in this edition.

Another giant step for in-house publishing—the newly announced 4250 which prints photocomposition camera-ready copy. It is managed by the Composed Document

Printing Facility which can merge the outputs of GDDM graphics and Script text thus portraying imbedded illustrations!

The building and giving of presentations by the professional himself, is a recent innovation in the small arsenal of quality decision support programs. Storyboard represents an outstanding achievement in this new application of the graphic art to professional support. Storyboard and the Graphs Edition of the Personal Decision Series are recommended reading in the rose pages.

Clusters associated with graphics which you will want to scan are: Decision Support, Text and Office, Engineering & Scientific, Instrumentation and Robotics.

Program Title	Short Name	Number	QTC	ILC	MLC	DSO	DSI	DSM	MHP	MML	Mo	MoreInfo	Environment	TPLS
ADRS II Business Graphics Feature		5796-PLN/02	1940		108							.0320-6668	4697,4688	11E
Advanced Printer Functions 5224		5714-UT2	1200			1056						GC21-7971	System/38+5224/5225	15A
*Application System Release 4	AS	5767-001	60000	30000	2000							GE45-5000	MVS,VM+GDDM	.T15E
Automated Information Management		5798-DR A	1265									.0320-9215	System/36	15H
Bar Chart	RPQ-P84050	5799-BHQ	900									GC21-7953	System/38	15E
Business Graphics Utilities	RPQ-P84056	5799-BNN	600									G580-0571	System/36	13X
Business Graphics Utilities	RPQ P84062	5799-BTA	1550									G580-0454	System/34	13X
Business Graphics Utility	OFFICE/38	5714-GP1	2000		107	1760		94				GC09-1060	System/38	13E
-Business Graphing on the IBM 3800		5798-CRB	2310		210						12	0821-2167	05/VS	15H
Business Professional System	BPS	5750-AAL	varies									G520-0007	VM/SP	V @
CADAM (R) - CAD Only Entry System		5796-PTH	32760		799							G320-6063	VM/SP	15E
CADAM (R) - CAD/CAM Entry System		5796-PTH/01	37800		922							G320-6063	9680,9681	15E
CADAM (R) - Data Mgmt Entry System		5796-PTH/02	14616		356							G320-6063	6033,6133	15E
CADAM (R) - Hard Copy Entry System		5796-PTH/03	12348		300							G320-6063	6034,6134	15E
CADAM (R) Accounting Information Module		5796-ATH	3540	654	63	2020	399	35				G320-6063	05/VS,VM+GAM	15E
CADAM (R) APT Interface		5796-ATE	23900	4305	430	13660	2460	246						15E
CADAM (R) APT Source Geometry		5796-BDT	21000	1605	535	14000	1065	353					05/VS+GAM	15E
CADAM (R) CAD-only Interactive Module		5796-ATA	78700	4650	1400	44970	8610	799				G320-6063	05/VS,VM+GAM	15E
CADAM (R) CAD/CAM Interactive Module		5796-ATB	90660	16100	1615	51800	9840	922				G320-6063	05/VS,VM+GAM	15E
CADAM (R) Data Management Module		5796-ATC	35530	6700	624	20300	4090	356				G320-6063	05/VS,VM+GAM	15E
+CADAM (R) DRAWING Viewing on PC		5796-TBQ	750									G320-0898	5796-TBP+EGA+8087	05Y
+CADAM (R) DRAWING Viewing Program - Host		5796-TBP	1250									G320-0898	VM,MVS+5796-TBQ	15H
CADAM (R) Express	IPO	5750-VME	varies									GH20-6487	VM,5080 or 3250	V15E
CADAM (R) Express - Base		5664-286	126000	8560	3315							GH20-6487	5750-VME	15E
CADAM (R) Geometry Interface Module		5796-ATJ	20730	3820	365	11840	2335	208				G320-6063	05/VS,VM+GAM	15E
CADAM (R) Hardcopy Module		5796-ATD	29910	5550	527	17100	3390	300				G320-6063	05/VS,VM+GAM	15E
CADAM (R) Installation Productivity - 05		5798-DEX/01	3400									GB21-2753	6018,6019	15X
+CADAM (R) Interactive Design Version 2		5668-840	70000		1710							G320-6063	VM,05/VS+3250/5080	T15E
CADAM (R) Interactive Design/Manufactng		5668-840/01	12000	2140	256	8400	214	180				6050,6560,2374,6550,		15E
CADAM (R) Statistical Data Module		5796-ATG	2120	372	34	1960	226	19				G320-6063	05/VS,VM+GAM	15E
CADAM (R) to COMPACT II (R) Interface		5796-BDG	18900	1440	480	12600	963	321					05/VS,VM+GAM	15E
CADAM (R) 3D Interactive		5668-844	35000	2675	909	24500	1920	640				G320-6063	5668-840	15E
CADAM (R) 3D Mesh Geometry Module		5796-AHR	27510	2910	457	15730	3870	261				G320-6063	05/VS,VM/CMS	05H
CADAM (R) 3D Piping		5796-BFN	41730	2730	910	26150	1830	610					5668-840	15E
CADAM (R) 3D Surface Geometry Module		5796-AMT	12050	1285	215	6885	1250	123				G320-6063	05/VS,VM/CMS	05H
CADAM Express Versaplot Color Random		5664-286/01	6250										4532	13E
CADAM Express Workstation Extension		5664-286/02	97720	30330	1185	23620	16850						2113,4527,4528	15E
CADAM Geometry Interface Version 2	CADAM (R)	5668-842	24000	4280	480	15400	2800	340				SH20-6491	5668-840	15E
CADAMAC	CADAM (R)	5668-843	19000	1470	490	13300	1020	340				SH20-6491	5668-840	15E
+CAEDS (R) - CATIA (R) Geometry Transform		5796-TBN	4250									G320-0900	MVS,VM	15H
+CAEDS (R) Base Version 2.0		5713-AAA	7825		265	5480		185					VM,MVS	15E
+CAEDS (R) Base 1.0		5669-206	1655										RT	05H
CAEDS (R) Finite Element Solver		5796-BDN	26470	3655	941	19800	2400	620				G520-3935	5796-BBZ+3277GA,3251	15E
CAEDS (R) Frame Analysis		5796-AZA	20960	2085	695	15400	1380	460				GE20-0771	MVS/VM+5080/3250	15E
CAEDS (R) Graphics System		5796-BBZ	49700	3275	1655	34790	2300	1100				GE20-0771	MVS,VM+3250/5080	15E
CAEDS (R) Modeler		5796-BFR	77100	7710	2570	53970	5400	1800				GE20-0771	VM,MVS+5080+GAM	15E
+CAEDS (R) Object Modeler		5713-AAB	varies		445								Base	V1UE
+CAEDS (R) Object Modeler 1.0		5669-207	6060										RT	05H
CAEDS (R) System Analysis		5796-BEP	45790	4815	1605	33740	3150	1050				GE20-0771	MVS,VM+5080/3250+GAM	15E
+CAEDS (R) System Modeler		5713-AAC	varies		605								Base	V1UE

Program Title	Short Name	Number	QTC	ILC	MLC	DSO	DSI	DSM	MLP	HML	Mo	MoreInfo	Environment	TPLS
+CAEDS (R) System Modeler 1.0		5669-208	8230										RT	OSH
+CAEDS Graphics Finite Element Modeler		5713-AAD	varies		600								Base	V1UE
+CAEDS Graphics Finite Element Modeler 1.		5669-209	8940										RT	OSH
+CAEDS Integrated Finite Element Solver		5713-AAE	varies		485								Base	V1UE
+CAEDS System Dynamics Analysis		5713-AAF	varies		1050								Base	V1UE
+CATIA (R) Advanced Surfaces 2.2		5668-831		1410	470		993	331					CATIA Base	1SE
+CATIA (R) Base 2.2 Unlimited CSTU		5668-760/01		4125	1375		2895	965					4800,2230	T1SE
+CATIA (R) Base 2.2 4 CSTU		5668-760			685								MVS,VM+3250/5080	T1SE
CATIA (R) Basic 3D Design - Standalone		5668-828			1055							G320-6650	Replaced by 5668-761	T1SE
CATIA (R) Drafting		5668-827			555							G320-6650	Replaced by 5668-837	T1SE
+CATIA (R) Drafting Unltd CSTU		5668-837/01		3210	1070		1070	750					4727,2207	T1SE
+CATIA (R) Drafting 2.2 4 CSTU		5668-837			555								CATIA Base	T1SE
+CATIA (R) Interactive User Access		5798-DYQ		3000	1000							SH20-0072	CATIA Base	1SH
+CATIA (R) Interface 2.2		5668-832		1020	340		735	245					CATIA Base	1SE
+CATIA (R) Kinematics 2.2 Unltd CSTU		5668-835		1410	470		993	331					CATIA Base	1SE
CATIA (R) Library 2.2		5668-838		1020	340		735	245				G320-6650	CATIA Base	1SE
CATIA (R) Numerical Control		5668-826			288							G320-6650	Replaced by 5668-833	T1SE
+CATIA (R) Numerical Ctl Unlimited CSTU		5668-833/01			288								4723,2203	T1SE
+CATIA (R) Numerical Ctl 2.2 4 CSTU		5668-833			288								CATIA Base	T1SE
+CATIA (R) Robotics 2.2 Unltd CSTU		5668-836		1725	575		1215	405					CATIA Base	1SE
+CATIA (R) Solids Geometry 2.2 Unltd CSTU		5668-834		1725	575		1215	405					CATIA Base	1SE
+CATIA (R) 3D Design		5668-830		1725	575		1215	405					Replaced by 5668-761	1SE
+CATIA (R) 3D Design Unlimited CSTU		5668-761/01		2100	700		1470	490					4802,2240	T1SE
+CATIA (R) 3D Design 2.2 4 CSTU		5668-761			350								CATIA Base	T1SE
Chart-Master		6871-432	375									GB30-2037	PC,XT,3270-PC	0SY
*Circuit Board Design - Circuit Pack 4.1	CBDS	5796-PRP	48600	8355	2785		58351945					G320-9175	VM+5080/3250/3277GA	T1SE
Circuit Board Design - Design Verify	CBDS	5796-PRL	23400	2085	695	16380	1455	485				G320-9175	5796-PRP	T1SE
+Color Graphics Charting	GGXC	4421-519	395									SC33-0223	3270-PC Graphics CP	0SM
Color Graphics Editor and Picture Plot		4421-760	385									GA33-3141	3270-PC/G or GX+GCP	0SH
Color Paint		6024-299	99									0520-1107	PCircolor	0SZ
-Color Text Presentation Facility		5798-DMZ	1210									GB21-3086	3279+GDDM+5748-AP1	1SX
-Colorcopy		5796-PTQ	1375									G320-9151	VM,MVS	1SX
Colorview		6410-982	115									G320-0387	A11	0SH
Composed Document Printing Facility 4250	CDPF	5668-997	4800		342				49	78		GC33-6133	SCRIPT and/or GDDM	1SK
Composition Utility Version 2		5798-RHL	4500										GDDM	2SH
Data Communication Service Release 2	CAD/CAM	5668-865	20000	1605	535								MVS,XA,VM	1SE
Digital Interactive Graphics / Mapping	Digimap	5668-959	16610		755							GH20-5508	5799-AYB,AXX,CMS,TSO	1SX
Drawing Assistant		6024-089	169									G520-1107	PC,PCjr,XT,AT+color	0SZ
EDX Videotex System SVS/1	RPQ-P82696	5799-TFN	13750									G520-3992	Series/1	1SX
ENERGRAPHICS tm		6187-234	350									GB30-2037	PC,XT,3270-PC+color	0SY
ENERGRAPHICS tm Plotter		6187-236	100									GB30-2037	ENERGRAPHICS+Plotter	0SY
Fastdraft Drawing Mgt to MAPICS Bridge		5796-RRN	2350										System/34+7361	1SX
Fastdraft to IGES Translator		5796-BEB		2285	251						24		05/VS,VM/SP	1SX
GDDM Graphics Data File - Color Support		5668-860	1100									GA23-0186	MVS,VM+7371/2/3/5	1SE
-GDDM Graphics Productivity Option		5796-PRZ	1320									G320-9142	5748-XXH	1SX
GDDM Interactive Map Definition	GDDM/IMD	5748-XXH/02		767	214		575	161	22	35		GC33-0100	6084,2101,6503,2301	1SK
GDDM Presentation Graphics Feature	GDDM/PGF	5748-XXH/01		767	162		575	121	36	58		GC33-0100	6049,2102,6500,2302	1SK
Geo-Facilities Data Base Support	RPQ-P09030	5799-BEB	44550		2025							36.GH20-2482	IMS+5799-AYB	2SB
Gertrude's Secrets		6024-097	49									G520-3917	PC,XT,PCjr+Color	0SZ
-Graphic Application Monitor - Interactiv		5785-DCJ	5860		533							12.G320-6659	5785-DCK	1SX

Program Title	Short Name	Number	OTC	ILC	MLC	DSO	DSI	DSH	MLP	MML	Mo	MoreInfo	Environment	TPLS
Graphic Data Display Manager	GDDM/Base	5748-XXH		767	159		575	120	36	58		GC33-0100	VM,CICS,IMS,MVS	15K
-Graphic Online Diagram Display	GOLD	5798-CXN	21780		990							24.G320-6059	MVS/TSO VM/CMS	15H
-Graphic Subroutine Package		5796-PPR			90							24.G320-6657	VM/SP	15X
-Graphic Support System		5785-DCK	5860		533							12.G320-6659	5785-DCK	15X
-Graphic Training Aid		5796-AJY	8580		390							.G320-6336	VS1	15H
+Graphical Data Display Mgr/ graPHIGS 1.2		5668-792			500								GAM or GDDM	15E
Graphical Display and Query Facility 1.3	GDQF	5668-905	20000	1365	455								MVS,VM+GDDM+3270	15E
+Graphical File System		5669-062	600									SV21-8060	RT AIX tm	05H
Graphical File System	Metafile	6024-205	189									G520-1107	Graphics/Prof CRT	05Z
Graphical Kernel System	GKS ANSI	6024-203	319									G520-1107	PC,XT,PPC,AT+DOS 2.1	05Z
Graphics Access Method / System Product	GAM/SP	5668-978	12000		503	9000		377				GC33-0125	MVS,XA,VM	15L
Graphics and Color / Script		5798-DMW	3080									.GB21-5074	DCF (Script)	15X
+Graphics Attachment 3277GA, 5080	RPQ-P09013	5799-AXX	4000		150							GH20-2146	VM/CMS,MVS/TSO	15E
Graphics Control Program Upgrade to V3		1887-970	100									GA33-3157	3270-PC GCP Ver 2	05H
+Graphics Control Program 3.2		6243-245	550										3270-PC	05M
+Graphics Development Toolkit		5669-050	700									SV21-8058	RT AIX tm	05H
-Graphics Development ToolKit		6024-196	385									G520-1107	Replaced by 6280082	05Z
+Graphics Development ToolKit 1.1		6280-076	495									PC,XT,AT,PPC,PCjr		05Z
+Graphics Development ToolKit 1.1		6280-076.01	800										Redistribution Licen	05Z
+Graphics Program Generator 3277GA/5080	GPG Rel 2	5668-941		7000	1250							GH20-5620	VM,MVS+5799-AXX+FORT	15E
+Graphics Terminal Emulator		5669-064	600									SV21-8061	RT AIX tm	05H
Graphics Terminal Emulator		6024-206	319									G520-1107	PC,XT,PPC,AT+DOS2.1+	05Z
Graphing		5798-RPW	770									.GB30-2128	System/36	15X
Graphing Assistant		6024-147	165									.G320-3917	PC,XT,PCjr,PPC	05Z
Graphpak Full Screen Interface		5796-PPH	858		65							.G320-6642	OS/VS,VM,VSAPI	15H
Graphwriter tm Basic Set		6871-476	395									.GB30-2037	PC,XT,3270-PC	05Y
Graphwriter tm Combination Set		6871-477	595									.GB30-2037	PC,XT,3270-PC	05Y
Graphwriter tm Extension Set		6871-478	395									.GB30-2037	PC,XT,3270-PC	05Y
High Level Image Processing System	HLIPS	5785-ABB	13530		615							.G320-9211	VM+PL/I+HBUS+7350	15H
Image Distribution System - Scanmaster	RPQ-P01002	5799-BJA	8800		460							SH18-0058	CICS/DOS/VS	15X
Image Distribution System - Scanmaster	RPQ-P01001	5799-BJB	8000		428							SH18-0058	CICS/OS/VS	15X
+Image Handling Facility		5785-DER	15000									.G320-9496	VM,MVS	25H
Image Processing System	PCIPS	6466-996	310									.G320-0823	All ex PCjr+color	05H
Image View Facility		5785-ECX	5940		270							.G320-0331	DISOSS+8815+MVS	15H
Image View Facility		5785-EDJ	5400									.G320-0802	DISOSS+Scanmaster	25H
Image View Facility/VM Feature		5785-EDJ.01	600										6008,6009	25H
Initial Graphics Exchange Spec Processor	IGES 2.1	5668-904	26600	2400	800							5374LM3+5796ATC+ATJ		15E
Integrated Publishing System		5796-BDQ	1100									.G320-9128	Series/1+5796-BDP	15X
Integrated Publishing System - Most		5796-BDP		3900	1495							24.G320-9128	VM/CMS+5796-BDQ	15X
INTELLECT tm Graphics Support		5796-PHD	12375		663							.G320-9161	MVS+GDDM/PGF+5796PHC	25H
INTELLECT tm Graphics Support		5796-PHF	12375		663							.G320-9161	VM+GDDM/PGF+5796-PHE	25H
Interactive Instructional Authoring	IIAS	5668-011	16170		529							.GH20-0008	VM,IMS,CICS+TCAMVTAM	2EB
IX ProChart		5796-TBC	16000									.G320-0816	Ix/370	15H
+Land Ownership Tax Mapping	LOTMAP	5796-PXK	10000									.G320-0359	Graphic Prog Genertr	25H
LOGO (R) with Turtle Graphics		6024-076	175									G520-3917	PC,PCjr	05Z
-Map Facility - Interactive		5796-BDN	4620									.G320-9131	MVS/TSO,GDDM	15X
-Map Facility - Interactive		5796-PBE	4620									.G320-9131	MVS/TSO,GDDM	15X
-Numerical Geometry System APT-AC Bridge		5785-EAN	7260		330							24.GB21-2608	5785-EAH	15H
-Numerical Geometry System - Advanced		5785-EAJ	29040		1385							24.GB21-2608	5785-EAH	15H
-Numerical Geometry System - Basic		5785-EAH	33880		1540							24.GB21-2608	MVS	15H

Program Title	Short Name	Number	OTC	ILC	MLC	DSO	DSI	DSM	MLP	MML	Mo	MoreInfo	Environment	TPLS
Overhead Express tm		6187-191	195									.GB20-2037	PC,XT,3270-PC,AT	05Y
OXYCALC (R)		5796-PWG	8000									.G320-9167	VM,MVS+GDDM	15X
Panel 2 Line Art Program		5796-PPA	2065		94							24.G320-6620	VM/370,05/V5	15H
PCCrayon tm (Feature 9290)		6871-680	60									.GB30-2037	PC,XT,PCjr	05Y
+Personal Decision Series - Graphs Editn		6403-821	225									.GH30-9012	3.5" drive	05G
Personal Decision Series - Graphs Editn		6410-938	225									.	Data Edition+color	05G
+Personal graPHIGS 1.2		5669-167	1000									SC33-8100	RT AIX	05E
+Plotting System		5669-063	600									SV21-8059	RT AIX tm	05H
Plotting System		6024-204	245									G520-1107	PC,PPC,XT,AT+DOS2.1+	05Z
Presentation Graphics - Interactive		5798-DJT		1065	408							24.GB21-2958	VM + 3277GA	15X
-Presentation Graphics, Three-Dimensional		5798-DGP	1910									.GB21-2867	VM/CMS,MVS,GDDM	15H
Print Screen Utility		6024-186	35									G520-3917	PC,XT+DOS2	05Z
Professional Visual Aid Composer		5798-DTB	1500									.G320-0813	GDDM+PGF	25S
Query Management Facility	QMF	5666-292		4280	642		3850	577	89	142		GH24-5033	SQL+5746-XX3+GDDM	25K
+RS/1 tm 8 CSTU		5664-316	23000									.G320-0840	VM+GDDM PGF	11SE
+RS/1 tm 40 CSTU		5664-316/01	45000									G320-0840	4731,4732	11SE
+RS/1 tm Unlimited CSTU		5664-316/03	144000									.G320-0840	4731,4732,4733,4734	11SE
+RS/1 tm 100 CSTU		5664-316/02	84000									G320-0840	4731,4732,4733	11SE
SlideWrite		6317-034	225									0520-1107	All except PCjr	05Z
-Softcopy - a CADAM (R) Drawing Viewer		5796-PNP	7630		347							.G320-6388	MVS,VM+3277GA	15E
Storage Tube Simulator		5668-820	2750		300							.GC54-4035	VM+GDDM+FORTAN	15E
Storyboard		6316-998	275									.0580-2001	PC,PCjr,PPC,AT,XT370	05G
Turtle Power (Feature 4109)		6024-109	55									0520-3917	PC,PCjr,XT	05Z
+UNIRAS tm BIZPACK		5669-115	2595										RASPAK/RASPAK SOLIDS	05Y
+UNIRAS tm GEOINT		5669-110	1595										GEOPAK	05Y
+UNIRAS tm GEOPAK		5669-109	6995										RASPAC/RASPAK SOLIDS	05Y
+UNIRAS tm GIMAGE		5669-112	2595										SEISPAK	05Y
+UNIRAS tm KRIGPAK		5669-111	3550										GEOPAK	05Y
+UNIRAS tm RASPAC		5669-108	3550										RT AIX	05Y
+UNIRAS tm RASPAC SOLIDS		5669-101	4995										RT AIX	05Y
+UNIRAS tm SEISPAK		5669-113	7650										RASPAK/RASPAK SOLIDS	05Y
+UNIRAS tm UNIEDIT		5669-117	2595										RASPAK/RASPAK SOLIDS	05Y
+UNIRAS tm UNIGRAPH		5669-114	2995										RT AIX	05Y
+UNIRAS tm UNIMAP		5669-102	7650										RT AIX	05Y
-US Geographic Demographic System		5798-DJQ	2365									.GB21-3020	VM/CMS,MVS/TSO,GDDM	15X
Videotex-Graphic Artist facility	VTXGRAF	6317-012	2500									G320-9394	Videotex (on PC)	05H
+Workstation Publishing Software tm		5669-086	1995									SV21-8084	RT AIX	05Z
-XY/750 Plotter Support for GDDM		5798-DMK	1540									.GB21-3054	TSO,CMS	15X
3270-PC Graphics Control Program (1507)		1887-697	450										3270-PC/G or GX	05H
3277 APL Graphics Attachment Support	RPQ-P09014	5799-AXW	2835		103							.GH20-2146	VSAPL-CMS,TSO,VSPC	15E
-3277 Graphics Attachment Plotter Tablet		5798-DCE	561		51							12.GB21-2598	TSO,VM 85799-AXX/-M	15H
-3277 Graphics Attachment Storage Tube		5798-DAG	616		56							12.GB21-2503	MVS,MVS/XA,VM/CMS	15H
-3279 Executive Presentation System		5798-DEB	4550		345							.GB21-2725	VM,TSO + GDDM	15H
-3800 Interactive Business Graphics		5796-PTY	2420									.G320-9138	MVS	15X
-3800 Page Mode - Text and Image Merge		5798-DPK	5500		250							.G320-9185	MVS	15X
3812 Pageprinter Font Management System		6466-982	375									.G320-0817	XT,AT+10MB	05H
5224 / 5225 Advanced Printer Function	APF/36	5727-AP1	700			615						GC21-7981	System/36	15X
5224 / 5225 Advanced Printer Function	RPQ-P84045	5799-BFN	525									GC21-7922	System/34	15E
6670 Fonts Library		5799-BGK	25										MVS	05C
6670 Fonts Library		5799-BGL	25										VSE	05C

<u>Program Title</u>	<u>Short Name</u>	<u>Number</u>	<u>OTC</u>	<u>ILC</u>	<u>MLC</u>	<u>DSO</u>	<u>DSI</u>	<u>DSM</u>	<u>MLP</u>	<u>MHL</u>	<u>Mo</u>	<u>MoreInfo</u>	<u>Environment</u>	<u>TPLS</u>
6670 Fonts Library		5799-BGN	25										S/34,S/38,8100,S/36	0SC
6670 Fonts Library		5799-BGQ	25										VM	0SC
6670 II Image Printing System		5785-FAZ	660										.G320-0332 Font files,edit+PL/I	1SH
-6670 Presentation Enhancements		5798-DNQ	880										.G320-9159 MVS, VM+5798-DKB	1SX
<del>7361 Fastdraft System</del>		<del>5719-GP1</del>	<del></del>	<del>1070</del>	<del>160</del>								<del>36 GC34-0513 7361+3101+3251</del>	<del>2SX</del>
737x Industry Std Plotting Commands		5796-BDZ	395										GC23-0120 MVS,VM,RS232+FORTRAN	1SX

## Health and Medical

The sectors of the health industry and their respective products are:

- Hospitals 250 beds and larger - Patient Care System family for 4300 and 30xx
- Hospitals 150 - 300 beds - System/38 Nationally Contracted Marketing Assistance Program organizations
- Hospitals 50 - 150 beds - Hospital Information System/36
- Physicians and small clinics - Doctor's Office Manager II (PC)

The Patient Care System family, using CICS and DL/1 under VSE or MVS, is composed of a patient management system, a patient accounting system, an order communications system, a medical records and concurrent review system, several other complimentary program offerings, and the application development system, which is the language and development system for all Patient Care System products.

IBM Professional Services, Consultant Assistance Program (CAP) participants, and other companies offer installation, implementation, and education services for the family of products.

The Hospital Information System/36 has patient management and accounting, order communications, medical records abstracting and in-service training modules. A Complementary Industry Competency Center (CICC) provides education, installation and implementation assistance to local Marketing Assistance Program (MAP) organizations.

The Doctor's Office Manager II provides physician practice management on a PC network of up to eight PC's. Functions include appointment scheduling, billing and accounts receivable, insurance claims, and revenue and analysis reporting.

Feature articles on Patient Care System and Hospital Information System appear in Section One. Also see the article on Doctor's Office Manager in the Rose pages.



Program Title	Short Name	Number	OTC	ILC	MLC	DSO	DSI	DSM	HLP	MML	Mc	MoreInfo	Environment	TPL%
ANA Medical Device Database		7798-MDD	nc										Information Network	NOSC
Community Mental Health MIS	CMHMIS	5796-PXX	7700									.G320-0330	System/36	15H
*DisplayWrite Medical Support		6024-197	179									G520-1107	DisplayWrite 2 V1.1	05Z
Doctor's Office Demo & Tutorial		6360-486	nc									G520-3917	IBM Internal	N05Z
+Doctors Office Manager II		6467-035	2749										PC,XT,AT+10MB	05Z
-DPCX Outpatient Billing System		5798-DCP	3200									12.GB21-2626	DPCX	15H
-HCS DL/I Medical Record Abstract System	HCS DL/I	5796-AYL				291						24.G320-6341	VSE+5798-CCA,CCB	15H
HCS PCS Patient Care System DOS	PCS	5796-ATZ				3190						24.G320-5756	VSE+CICS+DL/I	25H
HCS PCS Patient Care System OS	PCS	5796-ANY				2900						24.G320-5756	MVS+CICS+IMSDB	25H
Hosp Info - Medical Records Abstracting	MRA	5727-AB1/02	14300			650							6083,6099	15H
Hospital Info, In-service Training Modul		5727-AB1/03	5000			750						.5B30-7049	6244	15H
Hospital Info, Order Comm & Results Rept	OCV/RR	5727-AB1/01	15000			750						.5B30-7049	6082	15H
Hospital Information System	ADT/PBAR	5727-AB1	16500			750						.5B30-7016	System/36	15H
Laboratory Data Acquisition System	LDAS	5796-AWH				925						24.G320-6095	VSE	15H
Laboratory Data Management System II	LDMS II	5796-ANC	36540			1665						.G320-6080	VSE+CICS	15H
LDMS Normal Value / Delta Checking	LDMS II	5798-DCH	4715			429						12.GB21-2602	5796-APB,5796-AWC	15H
-Medical Record Deficiency & Location Trk		5796-PXE	275									.G320-0352	Displaywriter	15K
-Online Appointment System		5796-NZP				258						12.GB30-1440	System/34	15H
-Online Hospital Data Entry/Inquiry		5798-NRW	2350			214						12.GB30-1214	System/34	15H
+Patient Care - Medical Records&Concr	PCS	5796-TBH	90000									.G320-0824	5796-BCE,BCF and BBF	25H
+Patient Care System - Online Text	PCS	5796-PZR	9000									.G320-0820	MVS,VSE+PCS	25H
Patient Care System - Patient Accounting	PCS-PA	5668-913	165000			7500						.GH20-6351	5796-BBF+BCE+BCF	15E
Patient Care System Patient Managemt 1.1	PCS-PM	5796-BBF				5135	1050					.G320-6425	MVS,VSE+5796-BCE,BCF	15E
PCS ADS Application Execution System 2.0	PCS-AES	5796-BCE	16500			589						.G320-6651	05, DOS+CICS+DL/I	15E
PCS ADS Application Preparation Sys 1.1	PCS-APS	5796-BCF	13650			487						.G320-6651	05, DOS+CICS+DL/I	15E
PCS ADS Crossreference	PCS-ADS	5796-AYP	4950									.G320-6342	5796-BCE	15X
PCS ADS Data Dictionary Interface	PCS-ADS	5796-BTR	2475									.G320-9150	5740-XXF,5746-XXC	15X
PCS Infection Data Management	PCS	5796-BCC	7125			540						.G320-6627	5796-ANY,ATZ	15X
PCS Nursing Care Plans	PCS	5796-PQC	8250			1500	575					.G320-6632	5796-ANY,ATZ	15K
PCS Radiology	PCS	5796-AHJ	5565			460						12.G320-6092	5796-ANY,ATZ	15H
PCS Surgery Reporting	PCS	5796-PRJ	9130									.G320-9133	5796-ANY,ATZ	15X

<u>Program Title</u>	<u>Short Name</u>	<u>Number</u>	<u>OTC</u>	<u>ILC</u>	<u>MLC</u>	<u>DSO</u>	<u>DSI</u>	<u>DSH</u>	<u>MLP</u>	<u>MHL</u>	<u>Mo</u>	<u>MoreInfo</u>	<u>Environment</u>	<u>TPLS</u>
Braille Text		5798-DNC	2640									.GB21-3093	VM,MVS	1SH
-Career Guidance System- Adults / College	DISCOVER	5796-AYC			250							24.G320-6176	5796-AYA	1SH
-Career Guidance System- Secondary School	DISCOVER	5796-AYB			250							24.G320-6176	5796-AYA	1SH
Community Mental Health MIS	CMMHIS	5796-PXX	7700									.G320-0330	System/36	1SH
-DISCOVER- Career Guidance System - Base		5796-AYA			750							24.G320-6176	DOS/VSE VSI	1SH
Equal Employment Opportunity Report	CMAS	5798-RQC	1100									.GB30-2185	5727-M69	1SX
-Equal Employment Opportunity Report	CMAS	5798-RQK	825									.GB30-2179	System/34	1SX
Government Reporting & Benefits Tracking	INTERPERS	5746-AM1/01	5760	1275	262							.GH20-2151	6080,4581,4601	2SB
Government Reporting / Tracking Feature	INTERPERS	5740-AM4/01			297							.GH20-2151	6125,6126	2SB
Instructional System - Administration	PC/IS	6428-087	439									.G320-0441	PC	0SX
Instructional System - Authoring	PC/IS	6428-072	575									.G320-0441	PC	0SX
Instructional System - Presentation	PC/IS	6428-071	89									.G320-0441	PC	0SX
Interactive Personnel System 2.2	INTERPERS	5740-AM4	42130		1915							.GH20-5125	IMS/VS,CICS/OS/VS	2SB
Interactive Personnel System 2.2	INTERPERS	5746-AM1	30800		1400							.GH20-2151	CICS/DOS/VS	2SB
Job Placement Match		5796-PXN	6490									.G320-0329	VSE	1SH

## **IBM Information Network**

IBM Information Services operates a nationwide, value-added network that offers a broad range of remote computing services to complement the IBM product line and the customer's facility.

It was introduced in 1982 as a state of the art, nationwide network based on IBM's Systems Network Architecture. It enables customers to link their processors and SNA networks to remote processors or SNA networks operated by the customer or another organization. Customers also can link to the remote computing services of the Information Network. Non-SNA terminals and processors can usually be accommodated.

The network is designed for high availability and orderly expansion. It incorporates such features as parallel links, multiple routes, redundant processors and controllers, and enhanced recovery capabilities to help provide reliable

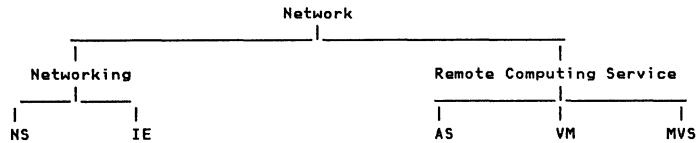
service. Security facilities have been designed for the network to control access and help protect data and applications. The network is available 24 hours a day, seven days a week, except for scheduled maintenance.

Trained staffs in development, operations, administration, customer assistance and marketing functions work closely to provide the best customer service.

### **Network Products**

The Network provides products in two areas: networking and remote computing services.

The networking products are Network Services and Information Exchange. The remote computing products are Application System, VM Productivity System and MVS Productivity System.



### Network Services

This is the interactive networking product of the Network. It provides rapid data communications between many remotely located terminals, processors and personal computers, within and between organizations. It enables users to link existing SNA networks to other organization's networks. Protocol conversions to link dissimilar devices are available.

### Information Exchange

Store-and-forward data communications are performed with Information Exchange, the networking product of Information Network. It provides efficient, economical data communications among company locations and different organizations. Data records, varying from brief free-form messages to very complex data, can be prepared in one location and sent to Information Exchange. Records can be stored for retrieval and forwarding by, and at the convenience of, one or more addressees. Information Exchange supports many SNA and non-SNA processors, intelligent terminals and PCs. Protocol and data conversion are available for communications among dissimilar devices and systems.

### Industry Networks

The networking products can be used individually or in combination to serve organizations within an industry. For example, property and casualty insurance companies have formed the Insurance Value Added Network Services organization, which uses Network Services and Information Exchange to link independent agencies, the companies they represent and service organizations to provide efficient processing of routine business transactions.

## **Remote Computing Service**

Through its remote computing services, the Network offers customers a range of software services and data bases. They include Application System and Productivity System for VM and MVS—both used by DP and non-DP professionals.

Users may employ several different productivity tools through single desk-top terminals or PCs. Organizations with an attached network can make these resources available to other users on their networks. These resources help ensure that every member of the organization is working with up-to-date, compatible data bases.

## **Resources for Professionals**

These products are designed to boost productivity by giving business people direct access to the information they need. PC tools can help them be more effective. Applications include electronic mail, query and analysis, report formatting, graphics, business planning, statistics, project management, text processing and problem solving.

Some of the products available on the network are provided and supported by IBM; others by companies who use the Network to deliver their products to customers. Two useful products for professionals are PROFS and Application

System. Both are IBM products that are available on the network and can be installed at a customer's facility under a program licensing agreement.

Professionals can access many data base products, provided by companies attached to the network, from their terminals. These include general interest and specific data bases.

## **Resources for Data Processing Professionals**

Online development center environments for system designers and programmers are available on the network. This allows people to stay in their offices and develop, compile, test and execute new programs using the Network's resources. It's as if the main processor were in their own facilities. The service is particularly valuable when development time on a customer processor is limited, or an organization is preparing for installation of a new system.

The VM Productivity System provides VM and DOS development environments and CICS application development facilities. MVS Productivity System provides an MVS environment. Software available includes programming languages, data bases of technical and educational information about IBM products, coding aids such as editors, compilers, debugging tools, conversion aids, and menus and entry panels that can ease development process.

## **Additional Computing Power**

Remote computing services are available to organizations that need an increase in computing power for a period of time. Users can place programs and data on Information Network processors to accommodate peak load processing demands, to test new systems prior to installation, or to begin production prior to the installation of a new processing system.

## **Customer Support**

Information Network marketing representatives and systems engineers are located in major cities across the country. Customer Assistance personnel are available through a toll-free telephone number to answer network and product questions. Network problems can be reported through an online facility. Network products use easy-to-understand menus and help screens. Reference manuals, online education, seminars and classes are available.

## **Charges Information**

The Information Network provides online price information to authorized account service administrators. They can request online or printed reports. Online and hardcopy reports include usage charges and fixed charges. Usage charges for the current month and/or previous month can be reported by user ID. Usage charges include processing activity and connect time. Fixed charges are reported in summary and include DASD, tape loads, restore activity, dedicated ports and user IDs. Year-to-date information on total charges is also available.

Atlanta	(404) 885-6743
Boston	(617) 229-4688
Chicago	(312) 245-6500
Connecticut	(203) 629-2023
Dallas	(214) 620-6650
Houston	(713) 940-1040
Los Angeles	(213) 621-6000
Minneapolis	(612) 341-5511
New York	(212) 239-2698
Philadelphia	(215) 864-7050
San Francisco	(415) 545-2710
St. Louis	(314) 554-9350
Tampa	(813) 872-3002
Washington D.C.	(202) 833-4293

Program Title	Short Name	Number	OTC	ILC	MLC	DSO	DSI	DSH	MLP	HML	Mo	MoreInfo	Environment	TPLS
A Programming Language - APL	VSAPL	5748-AP1			386			289	41	66		GH20-9064	Replaced by 5668-899	15K
ACF/VTAM Version 1		5735-RC2		1320	457			990	343	55	88	GC27-0462	OS/VS1,MVS	25K
-ADRS-II Introduction		5798-DFC	1385		105							GB21-2780	IIS,IIPS	1EH
AHA Medical Device Database		7798-MDD	nc										Information Network	M03C
-APL - Based Products Interfacing Course		5798-DHN	1305									GB21-2914	IIS,IIPS	1EX
-APL Interactive Training Course		5796-PJW	1055		40							.G320-5812	5748-AP1	1EH
Application Development Facility	IMS/ADF	5796-PHX	21290		831								Replaced by 5668-937	15X
-Application Development Facility Course	IMS/ADF	5798-DDW	1650		125						12	GB21-2712	5668-012+5746-XX6	11SE
*Application System Release 4	AS	5767-001	60000	30000	2000							GE45-5000	MVS,VM+GDDM	.11SE
Assembler Prompter		5734-CP2	1200		29							GC33-4038	TSO	15C
BASIC RM		5796-BCX	2842	258	93							.G320-6658	See 5668-996,5665948	15X
-BASIC VS Programming		5798-DBX	3760		285							GB21-2574	IIS,IIPS	1EH
BASIC/VM Release 2		5668-996	7000	1125	375	6300	843	281	38	61		GC26-4023	VM/SP	15K
BASIC/VS		5748-XX1			549			411	19	30		GC28-8302	See 5665-948,5668996	15K
Batch Terminal Simulator	BTS	5668-948	9662	1030	394	7245	773	295	28	46		GH20-5522	IMS/VS & TSO	15K
CICS/DOS/VS Faster Language Facility		5746-XX3/01			120							GH20-1502	6019	25C
CICS/VS Command Level Programming Course		5798-DCX	1415									GB21-2628	IIS,IIPS	1EX
CMS Fundamentals II		5798-DGJ	1980	360	120							GB21-2855	IIS,IIPS	1EX
COBOL Compiler & Library		5740-CB1			365			273	15	24		GC28-6470	OS/VS	15K
COBOL Compiler & Library		5746-CB1			184			138	15	24		GC28-6473	DOS/VS	15K
-COBOL Conversion Aid from NCR (R)Century		5798-APG			2315							GB21-0839	DOS/OS	01H
-COBOL Conversion Aid from Univac (R)		5785-JAC			3300							GB21-2763	DOS/VSE OS/VS	05H
-COBOL Conversion from Burroughs (R) 2500		5798-APH			2435							GB21-0836	DOS/OS	01H
-COBOL Conversion from Honeywell (R)		5785-JAA			3300							GB21-2858	OS/VS, DOS/VSE, VM/370	05H
COBOL Interactive Debug		5734-CB4	1008		375							GC28-6454	TSO/CMS	15B
-COBOL Interactive Debug Training II		5798-DFZ	1090									GB21-2825	IIS,IIPS	1EX
COBOL Prompter		5734-CP1			38			28	7	11		GC28-6454	TSO	15K
COBOL VS II Compiler and Library 1.1		5668-958		6420	1070		4812	802	53	85		GC26-4042	MVS, XA, VM	15K
-COBOL/PL/I Conversion Aid - VSE to MVS		5785-EBG	4330									GB21-2792	DOS/VSE, MVS, VM/CMS	01H
Communication Oriented Message System	CORMES	5746-XYM	11520		524							GH12-5127	DOS/VS	25B
-Continuous System Modeling - APL	CSMP	5785-KAE	2285		104						24	.G320-6081	5748-AP1	15H
COPICS Facilities Data Management		5668-907	9765		297							GH19-6357	COBOL+CICS+IMS, DL/I	15B
COPICS Inventory Accounting II		5785-GBE	3475		105							GB21-2644	DOS/VSE OS/VS DL/I	15B
COPICS Inventory Planning Forecasting II		5798-DCR	8575		259							GB21-2650	DOS/VSE, OS/VS DL/I	15E
COPICS Material Requirements Planning II		5785-GBF	5215		158							GB21-2646	DOS/VSE OS/VS DL/I	15E
COPICS Online Routing		5746-XY1	13560		411							GB21-2650	DOS/VSE, OS/VS DL/I	15E
COPICS Plant Monitoring - Host Interface		5798-DFR	5705		173							GB21-2842	OS/VS VSE 5798-DFI	15E
COPICS Product Cost Calculations II		5785-GBD	5705		173							GB21-2642	DOS/VSE OS/VS DL/I	15E
COPICS Purchasing		5785-GAX	12470		379							GB21-2772	DOS/VSE, OS/VS DL/I	15E
COPICS Receiving		5785-GAZ	8690		264							GB21-2774	DOS/VSE, OS/VS DL/I	15E
COPICS Shop Order Load Analysis Reporting		5668-908	15430		469							GH19-6356	CICS+COBOL+IMS, DL/I	15B
COPICS Shop Order Release II		5798-DCQ	11490		372							GB21-2648	DOS/VSE, OS/VS DL/I	15E
Cost Evaluation Processor Feature	PROJACS	5746-XP1/02	1980		90							GH19-1055	6009, 6153	11B
Customer Information Control System	CICS/VS	5746-XX3			686			617	149	238		GC33-0155	DOS/VSE	25K
Customer Order Servicing Data Management	COPICS	5785-DCN	9710		294							GB21-2633	DOS/VSE, OS/VS	15E
Customer Order Servicing Order Management	COPICS	5785-DCP	9710		294							GB21-2633	DOS/VSE, OS/VS	15E
-Data Base Design Aid Version 2	DBDA	5746-XXQ	6460		323							GH20-1626	DOS/VS	11C
Data Dictionary - DB/DC		5740-XXX			1110			832	115	184		GH20-9104	IMS/VS, CICS/OS/VS	25K
-Data Facility Product Version 1.1	DFP	5665-284		1590	600		1191	450	93	149		GC26-4007	Superseded by Ver 2	25K
Data Facility Sort 1.8	DFSORT	5740-SM1			247			185	19	30		GC33-4033	VS1, MVS, XA	15K

Program Title	Short Name	Number	OTC	ILC	MLC	DSO	DSI	DSM	MLP	MHL	Ho	MoreInfo	Environment	TPLS
Data Language / I	DL/I	5746-XX1			459			344	149	238			GH20-1246 VSE,SSX	25K
DB Prototype II		5796-PJK	4870		238								.G320-5754 IMS/VS VIR2	15E
DCF Foreground - CMS TSO ATMS III	SCRIPT/VS	5748-XX9/01		180	60								GH20-9158 6043,2107	1SE
Development Management System / CICS	DMS/CICS	5746-XX4	4730		330	3545		164	54	88			.GH20-2195 CICS/VS/D05	15K
Device Support Facilities for Standalone	ICKDSF	5747-DS1		nc									GC26-3946 3340,3344,3350,3380	N05S
Display Management System / CMS	DMS/CMS	5748-XXB			40			27	9	14			GC24-5197 VM/SP	15K
DL/I Basic Programming Course II		5798-DRG	2860										.GB21-2872 IIS, IIPS	1EX
DMS/CICS Application Generation Feature		5746-XX4*01	7040		330	5280		246	51	82			.GH20-2195 6082,4558,6541,6501	15K
Document Composition Training	DCF	5796-PNE	1320										.G320-6331 IIS,IIPS	1EH
Document Interchange - Host to Displaywr	HDDI	5799-BKE		1165	265								GC09-1037 DCF,PROFS+5608-SR9	25E
DOS / Virtual Storage Extended	DOS/VSE	5745-030		nc									GC33-6108 S/370,4300,303x,3083	N05J
Entry Level Interactive Application Syst	ELIAS-I/VM	5748-XXK	8005		364	5960		271	28	46			.GH19-6157 VM/CMS,CICS/VS,DL/I	15K
Extended Editor and Full Screen Manager		5796-PLY	1685		85								.G320-6168 VSAPL with VM, TSO	1SE
FORTRAN - Code-and-Go		5734-F01	7200		323								GC28-6884 OS/TSO/CMS	15C
-FORTRAN Conversion Aid from non-S/370		5796-PFG	5500		250								.G320-8154 OS/VS,VM/CMS	1IH
FORTRAN H Extended Optimization Enhanced		5796-PKR	3780		169								.G320-9205 MVS,VM	15H
FORTRAN Interactive Debug		5734-F05	3600		256								GC26-3983 5734-F01,5748-F03	15B
FORTRAN IV (G1)		5734-F02			98			73	11	17			GC28-6884 OS/TSO/CMS	15K
FORTRAN IV (H Extended) Compiler		5734-F03			426			319	17	27			GC28-6884 OS/VS/MFT/MVT/CMS	15K
FORTRAN IV Library Option 1		5746-LM3			40			30	7	11			GC28-6882 DOS	15K
FORTRAN Prompter		5734-CP3	123		32								GC28-6884 5734-F02+TSO	15C
FORTRAN Utilities for VM/370-III(New lic		5798-DFH	2400										.GB21-2796 VM	15X
FORTRAN VS - Interactive Debug 2.0 SPE		5668-903		1920	320		1397	240	26	42			GC26-6114 MVS,VM+5748-F03+LM3	15K
FORTRAN VS Compiler & Library 4.1		5748-F03		747	249		558	186	17	27			GC26-6114 MVS,XA,VM,VSE,VM/PC	15K
FORTRAN VS Course		5796-BCT	1925										.G320-6653 IIS,IIPS	1EX
FORTRAN VS Library 4.1		5748-LM3		219	73		162	54	7	11			GC26-3983 OS/VS,VSE,VM,SSX	15K
-General Purpose Simulation System	GPSS-APL	5796-PJG	2175		99								24.G320-5745 5748-AP1	1IH
Graphic Data Display Manager	GDDM/Base	5748-XXH		767	159		575	120	36	58			GC33-0100 VM,CICS,IMS,MVS	15K
Graphpak Full Screen Interface		5796-PPH	858		65								.G320-6642 OS/VS,VM,VSAPL	15H
Hierarchical Storage Manager	HSM	5740-XXB			579			434	129	206			GH35-0007 Succeeded by DFHSM	15K
-IMS DC Programming Course II		5798-DFQ	1540										.GB21-2813 IIS, IIPS	1EX
IMS/VS Data Base Product		5740-XX2/01			1800			1350	192	307			GH20-9069 4538	05K
IMS/VS Data Base Surveyor Utility Feat		5740-XX2/03			120			90	13	21			GH20-9069 6199,6569	05K
IMS/VS Data Base System 1.3	IMS/VS/DB	5740-XX2			2593			1944	240	384			GH20-1260 MVS,VS1	05K
IMS/VS Data Communications Feature	IMS/VS/DC	5740-XX2/02			2250			1687	192	307			GH20-1260 6172,6566	05K
-IMS/VS Master Terminal Operator Training		5798-DEG	990										.GB21-2736 IIS,IIPS	1EH
-IMS/VS Message Format Services Training		5798-CKY	3190		242								.GB21-1933 IIS,IIPS	1EH
Info Center/1		5668-897	22000		1390	18000		1040					.GH20-0398,VM,MVS	15E
Information / Access Version 1		5665-950		3300	362		2475	270	28	45			.GC34-2096 V2 of INFO/SYS & MGT	15K
Information / Library	INFO/LIB	5665-277		536	205		401	154	15	24			.GH12-5136 MVS,XA+GCCF	15K
Information / Management Version 2	INFO/MGMT	5665-953		2950	363		2200	270	32	51			.GC34-2098,5665-952	15K
Information / MVS	INFO/MVS	5665-955			305			9	14				.5665-952	05C
Information / System Version 2	INFO/SYS	5665-952		2705	311		2033	233	56	90			.GC34-2096,MVS	15K
Information / VM-VSE	INFO/VMVSE	5668-919			150								.GC34-2070 5665-952	05C
Insurance Communication Service	ICS	7798-ICS		nc									Information Network	N05C
Interactive File Sharing	IFS	5748-XXC			52			39	16	26			GC24-5195 VM/CMS	15K
Interactive Financial Planning System	OPTIMUM(R)	7798-OPT	varies										IBM Information Net	V05E
Interactive Instructional Presentation	IIPS	5668-012	9450		309								MVS,VSE,VM	2EB
Interactive Instructional System	IIS	5748-XX6			582								.GH20-1895 DOS/VS,OS/VS,VM	25X
Interactive System Productivity Facility	ISPF 1.1	5668-960		960	96		720	70	15	24			.GC34-2078 CICS/VSE+ICCF	15K



Program Title	Short Name	Number	OTC	ILC	MLC	DSO	DSI	DSH	MLP	MML	Mo	MoreInfo	Environment	TPLS
Interactive System Productivity Facil2.2	ISPF	5665-319		690	218		517	163	30	48		.GC34-2136	MVS	1SK
ISPF / Program Development Facility	ISPF/PDF	5664-172		1235	206		925	128	19	31		.GC34-2078	VM/CMS	1SK
ISPF Program Development Facility 2.2	ISPF/PDF	5665-317		4025	575		3015	431	14	22		.GC34-2136	ISPF	1SK
Library/MVS Release 2.1 (and Update C)		5665-294		399	133		297	99				GC28-1125	Information/Library	1SC
Mass Storage System Extensions 3850	MSSE	5740-XYG			327			245	54	86		GH35-0034	OS/VS,MVS/XA	1SK
Multivariate Time Series Analysis - APL		5796-PLX	4840		440							12.G320-6169	VSAPL	1IH
MVS Productivity System	MVSPS	7798-MVS	nc										Information Network	NOSC
MVS/SP - JES2 1.1		5740-XY5			2150			1612	117	187		GC28-1395	5752-VS2	2SK
MVS/SP - JES3 1.1		5740-XYN			2150			1612	117	187		GC28-1395	5752-VS2	2SK
MVS/SP - JES3 1.2 or 1.3		5740-XYN01			230			172	400	640		GC28-1395	6144,6524	2SK
MVS/SP JES2 Version 2.1.7	MVS/XA	5740-XC6		12840	4280		93603210	6731077				GC28-1118	With 5665-XA2	2SK
Network Communications Control Facil V1	NCCFC	5735-XX6		440	156		330	117	48	77		GC27-0429	ACF/VTAM&E/TAM/SSX	2SK
Network Job Entry for JES2	NJE	5740-XXR			807			605	96	154		GC23-0010	MVS	1SK
Network Services		7798-NET	nc										Information Network	NOSC
Operating System / Multiple Virtual Stor	MVS 3.8	5752-VS2	nc									GC28-1012	S/370,4300,303x,308x	NOSJ
OS FORTRAN IV Library (Mod II)		5734-LM3			131			98	17	27		GC28-6884	OS,OS/VS,VM	1SK
OS/VS JCL, Learning to Code		5798-DAJ	1250									.GB21-2508	IIS,IIPS	1EH
PANVALET tm (ISPF)		7798-PAN01	varies										IBM information Net	VOSE
PANVALET tm (SPF)		7798-PAN	varies										IBM information Net	VOSE
Pascal/VS Compiler		5796-PHQ	6300		247	5670		188				.G320-6387	VM/CMS,OS/VS,MVS/XA	1SE
PL/I Checkout Compiler		5734-PL2			575			431	7	11		GC33-0003	OS/VS/MFT/MVT/CMS	1SK
PL/I Optimizing Compiler		5736-PL1			251			188	39	62		GC33-0004	DOS/VSE,SSX/VSE,CMS	1SK
PL/I Optimizing Compiler & Library		5736-PL3			344			258	53	85		GC33-0004	DOS/VSE,SSX/VSE,CMS	1SK
PL/I Optimizing Compiler & Library 5.1		5734-PL3			398			298	53	85		GC33-0001	MVS,XA'DFP,VM,CICS	1SK
PL/I Programming Training		5798-CRJ	3245		246							.GB21-2187	IIS,IIPS	1EH
PL/I Resident Library		5736-LM4			58			43	7	11		GC33-0004	DOS,DDS/VS/VSE,CMS	1SK
PL/I Transient Library Release 6		5736-LM5			84			25	7	11		GC33-0004	DOS,DDS/VS/VSE,CMS	1SK
Professional Office System	PROFS	5664-176	22000	5000	395	19790	3745	710				.GH20-5601	VM	2SB
Project Analysis and Control System	PROJACS	5746-XP1	8070		367							.GH19-1055	DOS/VS	11B
Project Evaluation and Control System	PEACS	5785-EAE	8580		373							.G320-6088	VS-APL (5748-AP1)	1SH
PSS Application Installation Facility	AIF/PSS	5658-997	nc									GC30-3060	MVS+ISPF+BTAM,VTAM	NOSC
Resource Access Control Facility 1.7	RACF	5740-XXH			841			630	43	69		GC28-0722	MVS	2SK
Resource Allocation Processor Feature	PROJACS	5746-XP101	3980		181							.GH19-1055	6004,6148	11B
Resource Measurement Facility Version 2	RMF	5740-XY4			406			304	17	27		GC28-0921	MVS	1SK
RPG II Compiler		5746-RG1			160			120	7	11		GC33-6120	DDS/VSE,SSX/VSE	1IK
RPG II Conversion Preprocessor		5735-CV1	660									GH20-4532	S/3 to DOS/VS	OIC
Screen Definition Facility	SDF	5746-XXT	5345		243	3980		165	44	70		.GH19-6087	VSE or CICS/DDS/VS	1SK
Sort		5798-BDW	1025									.GB21-1376	VM/CMS	1SH
Sort Extensions		5798-BDW01	nc									.GB21-1376	4606	N1SH
Sort/Merge Version 2		5746-SM2			108			81	14	22		GC33-4043	DDS/VS,VSE,VM/SP	1SK
-STAIRS/VS Training Course		5796-PLF	3300		250							.G320-6078	IIS,IIPS	1EH
-Statistical Library - APL		5796-PHH	3165		240							.G320-5688	VSAPL	1IH
-Statistics Library - Advanced	STATLIB2	5796-PUT	2795		212							.G320-5811	VSAPL	1IH
Storage & Information Retrieval System	STAIRS	5664-189		1650	575	1235	375					GH12-5147	VM+ISPF,XT/370	1SM
-Structured Programming Macros		5798-CLF	660		60							12.GB21-1957	DDS/VS, OS/VS,VM	1SH
TRY-COPICS	COPICS	7798-COP	nc										Information Network	NOSC
TSO Introduction		5798-CKT	3375		256							.GB21-1924	IIS,IIPS	1EH
TSO/Extensions	TSO/E	5665-285		1500	500		1125	375	87	139		GC28-1061	MVS,XA'DFP	2SK
Using TSO Effectively II		5798-DFX	1090									.GB21-2818	IIS,IIPS	1EX
Virtual Machine Productivity System	VMPS	7798-VMP	nc										Information Network	NOSC

<u>Program Title</u>	<u>Short Name</u>	<u>Number</u>	<u>OTC</u>	<u>ILC</u>	<u>MLC</u>	<u>DSO</u>	<u>DSI</u>	<u>DSH</u>	<u>MLP</u>	<u>MML</u>	<u>Mo</u>	<u>MoreInfo</u>	<u>Environment</u>	<u>TPLS</u>
Virtual Machine/System Product Rel 4	VM/SP	5664-167			443			332	69	110		GC20-1838	S/370,4300,503x,308x	2SK
VSAM and Access Method Services Course	VSAM AMS	5798-DAN	2055									.GB21-2518	IIS,IIPS	1EH
VSE/Advanced Functions	VSE/AF	5746-XE8			299			270	61	98		GC33-6108	DOS/VSE	1SK
VSE/POWER Remote Job Entry Version 2	POWER/RJE	5746-XE3/01	3100		119	2325		107	23	37		GH12-5151	4564,4562,6502,6534	1SK
VSE/POWER Shared Spooling Version 1	POWER	5746-XE3/02	1200		46	1080		42	9	14		GH12-5151	4565,4563,6503,6535	1SK
VSE/POWER Version 1	POWER	5746-XE3	1800		68	1350		61	17	27		GH12-5151	DOS/VSE	1SK
VSE/VSAM		5746-AM2			82			74	24	38		GC24-5143	DOS/VSE,VM/SP	1SK
3270-PC File Transfer Program		5665-311	600									G520-3917	1837-434	1SE
3274 / 3278 Operator Training Course		5798-CHZ	2115									.GB21-2290	IIS,IIPS	1EH
6670 Preprocessor		5798-DKB	3045									.GB21-2974	MVS,VM	1SE

Program Title	Short Name	Number	OTC	ILC	MLC	DSO	DSI	DSM	MLP	MML	Mo	MoreInfo	Environment	TPLS
Batch Terminal Simulator	BTS	5668-948	9662	1030	394	7245	773	295	28	46		.GH20-5522	IMS/VS & TSO	1SK
-CICS/IMS Data Collector Capacity Plan	CPX	5798-DML	1815									.GB21-3057	OS/VS,CICS/VS	1SX
Data Processing Accounting for IMS/VS	DPA	5740-DC2	10670		485							.GH19-6028	OS/VS	1IC
-IMS DC Programming Course II		5798-DFQ	1540									.GB21-2813	IIS, IIPS	1EX
IMS Monitor Summary & System Analysis II	IMSASAP	5798-CHJ	3675		165							.GB21-1792	IMS/VS+GPAR	1IE
IMS Performance Analysis & Reporting	IMSPARS	5798-CQP	4155		203							.GB21-2139	IMS/VS V1,5798-CPR	1IE
IMS/DBT DEDB Pointer Checker		5668-856/05	2845									.	.4742	.2SE
IMS/DBT DEDB Tuning Aid		5668-856/06	836									.	.4743	.2SE
IMS/DBT DEDB Unload/Reload		5668-856/07	2445									.	.4744	.2SE
IMS/DBT Full Function Space Mgt Utility	SMU	5668-856/01	5555									.	.4738	.2SE
IMS/DBT High Speed Sequential Retrieval	FSU	5668-856/02	8645									.	.4739	.2SE
IMS/DBT PSB Mapper	IMSMAP	5668-856/03	957									.	.4740	.2SE
IMS/DBT VSAM Zapper	VZAP	5668-856/04	709									.	.4741	.2SE
-IMS/VS Message Format Services Training		5798-CXY	3190		242							.GB21-1933	IIS,IIPS	1EH
IMS/VS System Utilities/Data Base Tools	DBT	5668-856	nc									.GH20-6579	IMS/VS	N2SE
IMS/360 Data Communication Feature		5734-XX6/01	8400		700					12		.GH20-0765	6022	2SC
IMS/360 Interactive Query Facility Feat	IQF	5734-XX6/02	4032		336						12	.GH20-1074	6068	2SC
Message Requeuer	MQR	5796-ATP	4950		154							.G320-6071	IMS/VS V1	1IE
Time Initiated Input Facility	TIIF	5798-CWF	2745		134							.GB21-2255	IMS/VS V1	1SE
-Virtual Storage Analysis	IMSVSAP	5798-CHC	726		66							12.GB21-2002	OS/VS,MVS/XA+IMS/VS	1SH
-3270 Screen Image Preprocessor		5796-AFC			123							12.G320-8099	OS, OS/VS	1SH

## **Industrial Sector**

Largest by far of all the Clusters, it represents the entire range of extractive, process and fabrication industries. A few of the highlights of this edition are noted.

In-house text composition, formatting and photocomposed master is supported by the Composed Document Printing Facility. CDPF optionally will merge the outputs of Script and GDDM to produce imbedded graphics on a 4250—the output

of which is camera ready. The newly announced ICEF may be viewed as an alternative or companion product.

There are significant enhancements to the CADAM™, CAEDS™, CATIA™, COPICS and MAPICS families.

Most readers will wish to review the contents of at least one of the closely associated Clusters: Engineering and Scientific, Decision Support, Graphics, Instrumentation and Robotics.

Program Title	Short Name	Number	OTC	ILC	MLC	DSO	DSI	DSM	MLP	MML	Mo	MoreInfo	Environment	TPLS
+!BARSOFT (Manual)		5793-AGN/01	75									GB30-2027	Industrial PC	05Y
+!BARSOFT tm		5793-AGN	895									GB30-2027	Industrial PC	05Y
Accounts Payable	MAPICS	5714-M63	2675		95	2010		71				.GH30-0710	System/38	11D
+Accounts Payable	MAPICS II	5714-M73	3220		160	2834						.GH30-9036	System/38	1SE
Accounts Payable	DFAS II	5726-M63	2675		108	2010		79				.GH30-0221	System/34	11X
Accounts Payable	MAPICS	5727-M63	2805		163	2105						.GH30-9001	CASS	1SB
Accounts Payable	MAPICS II	5727-M73	3080		154	2710						.GH30-9004	CASS	1SE
Accounts Payable - Mfg	MMAS	5726-M33	1260		59							.GH30-0220	System/34	11C
Accounts Payable - Upgrade from MAPICS	MAPICS II	5714-M73/01	1310			1153						.4670,9605		1SE
Accounts Receivable	MAPICS	5714-M64	2675		95	2010		70				.GH30-0708	System/38	11D
+Accounts Receivable	MAPICS II	5714-M74	3220		160	2834						.GH30-9037	System/38	1SE
Accounts Receivable	MAPICS	5726-M64	2675		108	2010		79				.GH30-0221	System/34	11X
Accounts Receivable	MAPICS	5727-M64	2805		163	2105						.GH30-9001	CASS	1SB
Accounts Receivable	MAPICS II	5727-M74	3080		154	2710						.GH30-9005	CASS	1SE
Accounts Receivable - Mfg	MMAS	5726-M34	1310		62							.GH30-0220	System/34	11C
Accounts Receivable Upgrade from MAPICS	MAPICS II	5714-M74/01	1310			1153						.4610,9607		1SE
ACS On-Line / IPCS Integration		5796-ZHK	3300									.GB30-2258	System/36	1SX
ACS On-Line System tm		5796-ZFG	49500									.GB30-2258	System/36	1SX
Advanced Control System - Host ACS	RPQ-P09031	5799-BEJ	247800		22530						12.GH20-2464	V51,5799-AHE		2SE
+Allen-B PLC-2 Ladder Up/Downline Loading		5793-ACX/01	350										Industrial PC	05Y
+Allen-Bradley PLC-2 Drafter		5793-ACX/03	950										Industrial PC	05Y
+Allen-Bradley PLC-2 Ladder Logic Documen		5793-ACX	2500										Industrial PC	05Y
+Allen-Bradley PLC-2 Offline Programming		5793-AHH	1250										Industrial PC	05Y
+Allen-Bradley PLC-2 Hiring Diag Generatr		5793-ACX/02	500										Industrial PC	05Y
+Allen-Bradley PLC-3 Drafter		5793-AGC/02	950										Industrial PC	05Y
+Allen-Bradley PLC-3 Ladder Logic Documen		5793-AGC	2500										Industrial PC	05Y
+Allen-Bradley PLC-3 Hiring Diag Generatr		5793-AGC/01	500										Industrial PC	05Y
+Allen-Bradley 1774PLC Ladder Logic Docum		5793-AHC	1250										Industrial PC	05Y
APT Advanced Contouring XT/370 Feat		5740-M53/01	1500			75							3013,3014	05C
APT Advanced Contouring Release 4	APT-AC	5740-M53				1185						GH20-1423	05/VS,XT/370	1SE
APT Intermediate Contouring	APT-IC	5740-M52				713						GH20-1424	05/VS	1SE
APT Intermediate Contouring XT/370		5740-M52/01	1000		50								3011,3012	05C
Automotive Release/Shipping Control Syst		5796-ZKA	17600									.GB30-2480	System/36	1SH
-Bar Code Print for MAPICS		5798-RHN	825		165						06.GB30-1706	System/34		1SX
CADAM (R) - CAD Only Entry System		5796-PTH	32760		799							G320-6063	VM/SP	1SE
CADAM (R) - CAD/CAM Entry System		5796-PTH/01	37800		922							G320-6063	9680,9681	1SE
CADAM (R) - Data Mgmt Entry System		5796-PTH/02	14616		356							G320-6063	6033,6133	1SE
CADAM (R) - Hard Copy Entry System		5796-PTH/03	12348		300							G320-6063	6034,6134	1SE
CADAM (R) Accounting Information Module		5796-ATH	3540		654	63	2020	399	35			G320-6063	05/VS,VM+GAM	1SE
CADAM (R) APT Interface		5796-ATE	23900		4305	430	13660	2460	246					1SE
CADAM (R) APT Source Geometry		5796-BDT	21000		1605	535	14000	1065	353				05/VS+GAM	1SE
CADAM (R) CAD-only Interactive Module		5796-ATA	78700		4650	1400	44970	8610	799			G320-6063	05/VS,VM+GAM	1SE
CADAM (R) CAD/CAM Interactive Module		5796-ATB	90660		16100	1615	51800	9840	922			G320-6063	05/VS,VM+GAM	1SE
CADAM (R) Data Management Module		5796-ATC	35530		6700	624	20300	4090	356			G320-6063	05/VS,VM+GAM	1SE
CADAM (R) Design/Build/Manage		5668-853	20000		1765	535	13400	1185	395				5796-ATA,ATB,PTH	1SE
+CADAM (R) DRAWING Viewing on PC		5796-TBQ	750									G320-0898	5796-TB+EGA+8087	05Y
+CADAM (R) DRAWING Viewing Program - Host		5796-TBP	1250									G320-0898	VM,MVS+5796-TBQ	1SH
CADAM (R) Express	IPO	5750-VME	varies									GH20-6487	VM,5080 or 3250	V1SE
CADAM (R) Express - Base		5664-286	126000		8560	3315						GH20-6487	5750-VME	1SE
CADAM (R) Geometry Interface Module		5796-ATJ	20730		3820	365	11840	2335	208			G320-6063	05/VS,VM+GAM	1SH

Program Title	Short Name	Number	OTC	ILC	MLC	DSO	DSI	DSM	MLP	MML	Mo	MoreInfo	Environment	TPLS
CADAM (R) Hardcopy Module		5796-ATD	29910	5550	527	17100	3390	300				G320-6063	OS/VS, VM+GAM	15E
CADAM (R) Installation Productivity - OS		5798-DEX/01	3400									GB21-2753	6018, 6019	15X
*CADAM (R) Interactive Design Version 2		5668-840	70000		1710							G320-6063	VM, OS/VS+3250/5080	T15E
CADAM (R) Interactive Design/Manufacturing		5668-840/01	12000	2140	256	8400	214	180					6050, 6560, 2374, 6550,	15E
CADAM (R) Statistical Data Module		5796-ATG	2120	372	34	1960	226	19				G320-6063	OS/VS, VM+GAM	15F
CADAM (R) to COMPACT II (R) Interface		5796-BDG	18900	1440	480	12600	963	321					OS/VS, VM+GAM	15E
CADAM (R) 3D Interactive		5668-844	35000	2675	909	24500	1920	640				G320-6063	5668-840	15E
CADAM (R) 3D Mesh Geometry Module		5796-AMR	27510	2910	457	15730	3870	261				G320-6063	OS/VS, VM/CMS	05H
CADAM (R) 3D Piping		5796-BFN	41730	2730	910	26150	1830	610					5668-840	15E
CADAM (R) 3D Surface Geometry Module		5796-ANT	12050	1285	215	6885	1250	123				G320-6063	OS/VS, VM/CMS	05H
CADAM Express Versaplot Color Random		5664-286/01	6250										4532	15E
CADAM Express Workstation Extension		5664-286/02	97720	30330	1185	23620	16850						2113, 4527, 4528	15E
CADAM Geometry Interface Version 2	CADAM (R)	5668-842	24000	4280	480	15400	2800	340				SH20-6491	5668-840	15E
CADAMAC	CADAM (R)	5668-843	19000	1470	490	13300	1020	340				SH20-6491	5668-840	15E
+CAEDS (R) - CATIA (R) Geometry Transform		5796-TBN	4250									G320-0900	MVS, VM	15H
+CAEDS (R) Base Version 2.0		5713-AAA	7825		265	5480		185					VM, MVS	15E
+CAEDS (R) Base 1.0		5669-206	1655										RT	05H
CAEDS (R) Finite Element Solver		5796-BDW	26470	3655	941	19800	2400	620				G520-3935	5796-BBZ+3277GA, 3251	15E
CAEDS (R) Frame Analysis		5796-AZA	20960	2085	695	15400	1380	460				GE20-0771	MVS/VM+5080/3250	15E
CAEDS (R) Graphics System		5796-BBZ	49700	3275	1655	34790	2300	1100				GE20-0771	MVS, VM+3250/5080	15E
CAEDS (R) Modeler		5796-BFR	77100	7710	2570	55970	5400	1800				GE20-0771	VM, MVS+5080+GAM	15E
+CAEDS (R) Object Modeler		5713-AAB	varies		445								Base	V1UE
+CAEDS (R) Object Modeler 1.0		5669-207	6060										RT	05H
CAEDS (R) System Analysis		5796-BEP	45790	4815	1605	33740	3150	1050				GE20-0771	MVS, VM+5080/3250+GAM	15E
+CAEDS (R) System Modeler		5713-AAC	varies		605								Base	V1UE
+CAEDS (R) System Modeler 1.0		5669-208	8230										RT	05H
+CAEDS Graphics Finite Element Modeler		5713-AAD	varies		600								Base	V1UE
+CAEDS Graphics Finite Element Modeler 1.		5669-209	8940										RT	05H
+CAEDS Integrated Finite Element Solver		5713-AAE	varies		485								Base	V1UE
+CAEDS System Dynamics Analysis		5713-AAF	varies		1050								Base	V1UE
CAMM Allen-Bradley Controller Offline		5793-AEY/05	500										6509	05Y
CAMM Allen-Bradley Controller Online		5793-AEY/11	1750									GB30-2037	6513	05Y
CAMM Analogic Controller Online		5793-AEY/12	1750									GB30-2037	6514	05Y
CAMM Analogic tm Controller Offline		5793-AEY/06	500										6510	05Y
CAMM DSE Analytical Mod, Enhanced Graphi		5793-AEY/02	950									GB30-2037	6506	05Y
CAMM DSE Analytical Mod, Std Graphics		5793-AEY/01	500									GB30-2037	6505	05Y
CAMM General Electric Controller Online		5793-AEY/13	1750									GB30-2037	6515	05Y
CAMM General Electric tm Contlr Offline		5793-AEY/07	500										6511	05Y
CAMM Modicon Controller Online		5793-AEY/14	1750									GB30-2037	6527	05Y
CAMM Modicon tm Controller Offline		5793-AEY/08	500										6525	05Y
CAMM TIWAY Controller Online		5793-AEY/15	1750									GB30-2037	6528	05Y
CAMM TIWAY tm Controller Offline		5793-AEY/09	500										6526	05Y
+CAMM tm Interface Module		5793-AFF/01	550										6600	05Y
CAMM tm System Kit		5793-AEY	200									GB30-2037	5531, 7531, 7532	05Y
CAMM Turnbull Controller Offline		5793-AEY/10	500										6512	05Y
CAMM Turnbull Controller Online		5793-AEY/16	1750									GB30-2037	6516	05Y
CAMMGraph Build/Display Enhanced Graphi		5793-AEY/03	4600									GB30-2037	6507	05Y
CAMMGraph Display Enhanced Graphics		5793-AEY/04	2600									GB30-2037	6508	05Y
Capacity Planning and Operations	CAPOSS-E	5740-M41	21070		823							.GH12-5119	OS/VS1, MVS	21B
Capacity Planning and Operations	CAPOSS-E	5746-M41	17310		787							.GH12-5119	DOS/VS	21B

Program Title	Short Name	Number	QTC	ILC	MLC	DSO	DSI	DSM	MLP	MML	Mo	MoreInfo	Environment	TPLS
Capacity Reqs Plannng - Upgr from MAPICS	MAPICS II	5714-M7G/01	2790			2455							.4634,9623	15E
Capacity Requirements Planning	MAPICS	5714-M4G	6560		234	4920		175				.GH30-0482	System/38	11D
*Capacity Requirements Planning	MAPICS II	5714-M7G	7480		375	6582						.GH30-9037	System/38	15E
Capacity Requirements Planning	MAPICS	5726-M4G	5615		228	4215		171				.GH30-0021	System/34	11X
Capacity Requirements Planning	MAPICS	5727-M4G	5885		359	4415						.GH30-9002	CASS	15B
Capacity Requirements Planning	MAPICS II	5727-M7G	7150		357	6290						.GH30-9006	CASS	15E
+CATIA (R) Advanced Surfaces 2.2		5668-831		1410	470		993	331					CATIA Base	15E
+CATIA (R) Base 2.2	Unlimited CSTU	5668-760/01		4125	1375		2895	965					4800,2230	T15E
+CATIA (R) Base 2.2	4 CSTU	5668-760			685								MVS,VM+3250/5080	T15E
CATIA (R) Basic 3D Design - Standalone		5668-828			1035							G320-6650	Replaced by 5668-761	T15E
+CATIA (R) Building Design		5668-761			400								CATIA Base/Draft 2.2	15E
CATIA (R) Drafting		5668-827			535							G320-6650	Replaced by 5668-837	T15E
+CATIA (R) Drafting	Unltd CSTU	5668-837/01		3210	1070		1070	750					4727,2207	T15E
+CATIA (R) Drafting 2.2	4 CSTU	5668-837			535								CATIA Base	T15E
+CATIA (R) Interactive User Access		5798-DYQ		3000	1000							SH20-0072	CATIA Base	15H
+CATIA (R) Interface 2.2		5668-832		1020	340		735	245					CATIA Base	15E
+CATIA (R) Kinematics 2.2	Unltd CSTU	5668-835		1410	470		993	331					CATIA Base	15E
CATIA (R) Library 2.2		5668-838		1020	340		735	245				G320-6650	CATIA Base	15E
CATIA (R) Numerical Control		5668-826			288							G320-6650	Replaced by 5668-833	T15E
+CATIA (R) Numerical Ctl Unlimited CSTU		5668-833/01			288								4723,2203	T15E
+CATIA (R) Numerical Ctl 2.2	4 CSTU	5668-833			288								CATIA Base	T15E
+CATIA (R) Robotics 2.2	Unltd CSTU	5668-836		1725	575		1215	405					CATIA Base	15E
+CATIA (R) Solids Geometry 2.2	Unltd CSTU	5668-834		1725	575		1215	405					CATIA Base	15E
+CATIA (R) 3D Design		5668-830		1725	575		1215	405					Replaced by 5668-761	15E
+CATIA (R) 3D Design	Unlimited CSTU	5668-761/01		2100	700		1470	490					4802,2240	T15E
+CATIA (R) 3D Design 2.2	4 CSTU	5668-761			350								CATIA Base	T15E
Chained File DL/I Bridge		5748-XX3	14740		576							.GH12-5116	DOS/VS,05/VS	15B
*Circuit Board Design - Circuit Pack 4.1	CBDS	5796-PRP	48600	8355	2785		5835	1945				G320-9175	VM+5080/3250/3277GA	T15E
Circuit Board Design - Design Verify	CBDS	5796-PLQ	23400	2085	695	16380	1455	485				G320-9175	5796-PRP	T15E
-Colorcopy		5796-PTQ	1375									.G320-9151	VM, MVS	15X
Communication Oriented Message System	CORMES	5746-XXM	11520		524							.GH12-5127	DOS/VS	25B
+Computer-Integrated Electrical Design	CIEDS tm	5668-878	75000		2500	52500		1750					VM+GDDM/graPHIGS	15E
+Computer-Integrated Electrical Design	CIEDS tm	5669-191	6000										AT	05G
+Computer-Integrated Electrical Design	CIEDS tm	5669-192	8000										RT AIX	05H
Consumer Goods System - Allocation	COGS	5734-D32	3980		181							.GH20-4410	OS/MFT/MVT/VS1/VS2	11C
Consumer Goods System - Allocation	COGS	5736-D31	3980		181							.GH20-0721	DOS, DOS/VS	11C
Consumer Goods System - Forecasting	COGS	5734-D33	5320		242							.GH20-4409	OS/MFT/MVT/VS1/VS2	11C
Consumer Goods System - Forecasting	COGS	5736-D32	5320		242							.GH20-0722	DOS, DOS/VS	11C
Continuous System Modeling Program III	CSMP	5734-XS9	2705		123							.GH19-7000	VS1/VS2/VM	11C
COPICS Bill Material Batch Utilities II		5785-GBC	2490		75							.GB21-2640	DOS/VSE OS/VS DL/I	15E
COPICS Bill of Material Online II		5785-GBA	4725		142							.GB21-2638	DOS/VSE OS/VS DL/I	15E
+COPICS Capacity Requirements Planning		5668-829	18000		900							.GH19-4413	CICS+IMS/DL/I+COBOL	15E
+COPICS Executive Data Link	COPICS/EDL	5785-DFM	10000		500							.GB30-5056	XT,AT,3270-PC+Emultn	15H
COPICS Facilities Data Management		5668-907	9765		297							.GH19-6357	COBOL+CICS+IMS,DL/I	15B
COPICS Inventory Accounting II		5785-GBE	3475		105							.GB21-2644	DOS/VSE OS/VS DL/I	15E
COPICS Inventory Planning Forecasting II		5798-DCR	8575		259							.GB21-2650	DOS/VSE OS/VS DL/I	15E
COPICS Material Requirements Planning II		5785-GBF	5215		158							.GB21-2646	DOS/VSE OS/VS DL/I	15E
COPICS Online Routing		5740-XYX	13560		411							.GH12-5138	OS/VS, IMS, CICS, DL/I	25E
COPICS Online Routing		5746-XY1	13560		411							.GB21-2650	DOS/VSE OS/VS DL/I	15E
COPICS Plant Monitoring & Control - 8100		5798-DEF	21500		653							.GB21-2842	DPPFX 5798-DFR	15E

Program Title	Short Name	Number	OTC	ILC	MLC	DSO	DSI	DSH	MHP	MHL	Mo	MoreInfo	Environment	TPLS
COPICS Plant Monitoring - Host Interface		5798-DFR	5705		173							.GB21-2842.05/VS V5E 5798-DFT	15E	
COPICS Product Cost Calculations II		5785-GBD	5705		173							.GB21-2642.DOS/VSE 05/VS DL/I	15E	
COPICS Purchasing		5785-GAX	12470		379							.GB21-2772.DOS/VSE,05/VS DL/I	15E	
COPICS Receiving		5785-GAZ	8690		264							.GB21-2774.DOS/VSE,05/VS DL/I	15E	
COPICS Shop Order Load Analysis Reporting		5668-908	15430		469							.GH19-6356.CICS+COBOL+IMS,DL/I	15B	
COPICS Shop Order Release II		5798-DCQ	11490		372							.GB21-2648.DOS/VSE,05/VS DL/I	15E	
+CRIBHARE tm		5793-AGT	2500									GB30-2027 Industrial PC	05Y	
Cross App - Upgrade from 5727-M4X	MAPICS II	5727-M7X/01	946			832						.4623,9623	15E	
Cross Applic Sys Supt- Upgr from MAPICS	MAPICS II	5714-M7X/01	2420		120	1230							15E	
+Cross Application System Support	MAPICS II	5714-M7X	2420		120	2130						.GH30-9037.System/38	15E	
Cross Application System Support	CASS	5727-M4X	1815		111	1360						.GH30-9002.System/36+MAPICS	15B	
Cross Application System Support	MAPICS II	5727-M7X	2310		115	2035						.GH30-9004.System/36,S/36 PC	15E	
CSMP III - Graphics Feature		5734-XS9/01	9305		423							.GH19-7000.6065,6097	11C	
Customer Order Servicing - Shipping Mgmt	COPICS COS	5668-906	14070		428							.GH19-6369.CICS/VS+IMS or DL/I	15B	
Customer Order Servicing Data Management	COPICS	5785-DCN	9710		294							.GB21-2633.DOS/VSE,05/VS	15E	
Customer Order Servicing Order Management	COPICS	5785-DCP	9710		294							.GB21-2633.DOS/VSE,05/VS	15E	
Data Acquisition and Control Adapter		6024-202	175									G520-1107 DACS adapter+DOS2+	05Z	
Data Base Organization and Maintenance	DBOMP	5736-XX4	3620		132							.GH20-0771 DOS, DOS/VS	25C	
Data Collection	MAPICS II	5727-M7A	4950		247	4355						.GH30-9006.CASS	15E	
Data Collection - Upgrade from MAPICS	MAPICS II	5714-M7A/01	2030			1786						.4628,9619	15E	
-Data Collection Edit & Transmit		5798-RCX	1820		138						12.GB30-1552 Series/1		15H	
-Data Collection Host		5798-RDX	75									.GB30-1552 System/34 to S/1	15H	
Data Collection System Support	MAPICS	5714-M4A	4410		157	3305		119				.GH30-0709.System/38	11D	
+Data Collection System Support	MAPICS II	5714-M7A	5180		260	4558						.GH30-9037.System/38	15E	
Data Collection System Support	MAPICS	5727-M6A	4345		251	3260						.GH30-9002.CASS	15B	
Data Collection System Support Mfg	MAPICS	5726-M6A	4115		167	3110		125				.GH30-0221 System/34	11X	
Data Communication Service Release 2	CAD/CAM	5668-865	3000	1605	535							MVS, XA, VM	15E	
DBOMP CICS / DASF Feature		5736-XX4/02	2305		120							.GH20-4621 4522,4525	25C	
DBOMP CICS Feature		5736-XX4/01	2675		97							.GH20-4446 4521,4524	25C	
Display Management Systems	RPQ-Z06076	5799-AFD	53350		4850						12.SH29-1745 5799-AHE		21B	
DPPX Distb Plant Maint Work Order		5787-GAA/01	14850									6001	25	
DPPX Distributed Plant Maintenance		5787-GAA	17600	1560	599							.GB21-2895 8100	25X	
DPPX Materials/Purchasing and Reporting		5796-PXH	99000									.G320-0353 DPPX+COBOL	15H	
-DPPX Plant Floor Collect & Lot Tracking		5798-DFG	3750		345						12.GB21-2881 DPPX+3640		15H	
DPPX 3640 Shop Floor Control System		5796-BBR			345						12.G320-6432 DPPX		15H	
DPPX 3640 Special Support Subroutines		5798-DEJ	484		44							12.GB21-2719 8100/DPPX-COBOL	15H	
Earth Resources Management II	RPQ-MH2256	5799-ARX	63580		2890						24.GB11-5007 VS1		15C	
+EASYLABEL tm		5793-AGP	2500									GB30-2027 Industrial PC	05Y	
+EASYLABEL tm (Manual)		5793-AGP/01	125									GB30-2027 Industrial PC	05Y	
EDX Indust Terminals - Transaction Test		5798-RRD	1980									.GB30-2332 Series/1	15X	
+EDX MAP tm Application Server		5719-XT1	4500		321							SL23-0150 XHCS	15M	
EDX to Allen-Bradley (R) Controllers		5719-THC	5000									GC34-0099 5719-CF1	15H	
EDX to General Electric Series 6 tm Supt		5719-THD	5000									GC34-0099 5719-CF1	15H	
EDX to Gould Modicon MICRO tm Controllers		5719-THB	5000									GC34-0099 5719-CF1	15H	
EDX to Texas Instruments (R) Controllers	5TI, TI520	5719-THA	5000									GC34-0099 5719-CF1	15H	
Energy 2.0 (c)		5793-AGF	6000									5531,7531,7532	05Z	
Executive Data Link to PC	MAPICS	5798-RRQ	2750									.GB30-2392 System/34+PC	15X	
Executive Data Link to PC	MAPICS	5798-RRR	2750									.GB30-2393 System/36+PC	15X	
Fastdraft Drawing Mgt to MAPICS Bridge		5796-RRN	2350									System/34+7361	15X	
Fastdraft to IGES Translator		5796-BEB		2285	251						24	05/VS,VM/SP	15X	



Program Title	Short Name	Number	OTC	ILC	HLC	DSO	DSI	DSM	MLP	MML	Mo	MoreInfo	Environment	TPLS
Financial Analysis	MAPICS	5727-M7H	6000		300	5280						.GH30-9004.CASS		15E
Financial Management System		5665-309		10110	1815		75801360	280	448			.GH19-6274.MVS.XA+IMS/DB+COBOL		25K
FLEET MAINT tm		5793-ACH	3950									.GH30-2037.5531,7531,7532		05Y
Forecasting	MAPICS II	5727-M7L	11000		550	9680						.GH30-9004.CASS		15E
General Ledger	MAPICS	5714-M47	2675		95	2010			71			.GH30-0710.System/38		11D
+General Ledger	MAPICS II	5714-M77	3680		185	3238						.GH30-9036.System/38		15E
General Ledger	DFAS II	5726-M47	2675		108	2010			79			.GH30-0221.System/34		11X
General Ledger	MAPICS	5727-M47	2805		163	2105						.GH30-9001.CASS		15B
General Ledger	MAPICS II	5727-M77	3520		176	3095						.GH30-9004.CASS		15E
General Ledger - Mfg	MMAS	5726-M37	1260		59							.GH30-0220.System/34		11C
General Ledger - Upgrade from MAPICS	MAPICS II	5714-M77/01	1770			1558						.4619, 9613		15E
General Purpose Interface Bus Adapter	GP1B	6024-201	89									.G520-1107.GP1B+D052+		05B
Geo-Facilities Data Base Support	RPQ-P09030	5799-BEB	44550		2025					36	.GH20-29482	IMS+5799-AYB		25Z
Graphical Display and Query Facility 1.3	GDQF	5668-905	20000	1365	455							MVS,VM+GDDM+3270		15E
+Graphics Program Generator 3277GA/5080	GPG Rel 2	5668-941			7000	1250						.GH20-5620	VM,MVS+5799-AXX+FORT	15E
High Level Image Processing System	HLIPS	5785-ABB	13530		615							.G320-9211	VM+PL/I+HBUS+7350	15H
Industrial Terminals- Acquisition & Tran		5798-RRD/01	1650									3036		15H
Initial Graphics Exchange Spec Processor	IGES 2.1	5668-904	26600	2400	800							5374LM3+5796ATC+ATJ		15E
Integrated Production Control System	IPCS	5796-2FH	19250									.GH30-2261	System/36	15X
-Interactive Circuit Design		5796-PLR	20850		948						24	.G320-6164	VSAPL, AP15V	15H
Interactive Composition and Editing Ver2	ICEF	5798-DTD	25000	1250								.G320-9798	VM+4250 or 3800 III	25H
Interactive Schematics Builder for ACS	RPQ P09061	5799-CAF	8800	400								5799-AHE and BEJ		05C
Inv Mat for Process - Upgr from 5727-M45	MAPICS II	5727-M7N/01	17500			15400						.4081,9733		15E
Inv Mat for Process - Upgr from 5727-M75	MAPICS II	5727-M7N/02	15500			13640						.4082,9734		15E
Inv Mat for Process - Upgr from 5727-M75	MAPICS II	5727-M7N/03	11300			9944						.4083,9735		15E
-Inventory Cycle Counting		5796-BDH	1980									.G320-9127	D05/V5E	15X
-Inventory Forecasting for Manufacturers	MAPICS	5798-RDC	4840	440							12	.GH30-1532	System/34	15H
-Inventory Forecasting for Manufacturers	MAPICS	5798-RPR	6600	300								.GH30-2187	System/36	15X
-Inventory Management	MAPICS	5714-M45	3465	124	2595				92			.GH30-0708	System/38	11D
+Inventory Management	MAPICS II	5714-M75	5750	290	5040							.GH30-9037	System/38	15E
-Inventory Management	MAPICS	5726-M45	3685	143	2640				108			.GH30-0221	System/34	11X
-Inventory Management	MAPICS	5727-M45	3685	214	2765							.GH30-9002.CASS		15B
-Inventory Management	MAPICS II	5727-M75	5500	275	4840							.GH30-9006.CASS		15E
-Inventory Management - Mfg	MMAS	5726-M35	1575	77								.GH30-0220	System/34	11C
+Inventory Management for Process	MAPICS II	5727-M7N	20000	1000	17600							.GH30-0998	System/36	15E
-Inventory Management Upgrade from MAPICS	MAPICS II	5714-M75/01	3280			2886						.4613,9609		15E
Local Area Network PrintManager		6317-042	800									.G520-5102	PC Network, OMNINET	05H
+Location/Lot Management	MAPICS II	5727-M7P	4200		210	3696						.GH30-9006	System/36	15E
+LOOPWORKS tm		5793-AGR	2995									.GH30-2027	Industrial PC	05Y
+LOOPWORKS tm Manual		5793-AGR/01	105									.GH30-2027	Industrial PC	05Y
-Make-to-Schedule Facility for Inventory	MAPICS II	5798-RRE	3300									.GH30-2386	System/36	15H
-Make-to-Schedule for Inventory Mgt	MAPICS	5798-RQC	3025									.GH30-2324	System/34	15X
-Make-to-Schedule for Inventory Mgt	MAPICS	5798-RQT	3630									.GH30-2326	System/38	15X
-Make-to-Schedule for Inventory Mgt	MAPICS	5798-RRY	3300									.GH30-2386	System/36	15X
-Make-to-Schedule Upgrade from 5798-RRY	MAPICS II	5798-RRE/01	1050									4704		15H
Management Information	COPICS	5798-RTG	3600									.GH30-2407	VSE,MVS+COBOL	15H
-Manufacturing Order Tracking Subsystem	MAPICS	5798-RCT	570	114							06	.GH30-1536	System/34	15H
MAPICS File / Record Definitions		5798-RQB	330									.GH30-2146	Retrieval/36	15X
-MAPICS File / Record Definitions		5798-RQL	330									.GH30-2144	Retrieval/34	15X
MAPICS II File / Record Definitions		5798-RQD	400									.GH30-2146	Retrieval/36	15H

Program Title	Short Name	Number	OTC	ILC	MLC	DSO	DSI	DSM	MLP	MHL	Mo	MoreInfo	Environment	TPLS
+MAPICS II Financial Analysis Release 1		5714-M7H	6900			6070						.SB30-3279	System/38	1SE
+MAPICS II Forecasting Release 1		5714-M7L	12650			11132						.SB30-3402	System/38	1SE
+MAPICS II Master Prod Sched Plan Rel 1		5714-M7J	13230			11640						.SB30-3285	System/38	1SE
Master Production Schedule Planning	COPICS	5668-898	31500		1380							.GH30-0737	CICS+COBOL+IMS,DL/I	1SE
+Master Production Schedule Planning	MAPICS II	5727-M7J	11500			575	10120					.GH30-9005	System/36	1SE
Material Reqs Plannng - Upgr from MAPICS	MAPICS II	5714-M7B/01	3290			2895						.4631,9621		1SE
Material Requirements Planning	MAPICS	5714-M4B	6665		239	5000		178				.GH30-0709	System/38	11D
+Material Requirements Planning	MAPICS II	5714-M7B	8050		405	7084						.GH30-9037	System/38	1SE
Material Requirements Planning	MAPICS	5726-M4B	6405		261	4800		195				.GH30-0221	System/34	11X
Material Requirements Planning	MAPICS	5727-M4B	6710		383	5030						.GH30-9002	CASS	1SB
Material Requirements Planning	MAPICS II	5727-M7B	7700		385	6775						.GH30-9006	CASS	1SE
MEDIA-FLEX Inventory Module Upgrade		5793-AGB/01	3000									GB30-2037	6556	0SY
MEDIA-FLEX tm Maintenance Management		5793-AFD	5995									GB30-2037	5531,7531,7532	0SY
MEDIA-FLEX tm Preventive Maintenance		5793-AGB	3995									GB30-2037	5531,7531,7532	0SY
MICRO MAINT tm		5793-AFF	4950									GB30-2037	5532,7531,7532	0SY
MinuteMan tm		5793-AFC	4990									GB30-2037	5532,7532,7532	0SY
+Modicon Draftec		5793-AHF/02	950										Industrial PC	0SY
+Modicon Micro-84 Ladder Logic Documentat		5793-AHD	1250										Industrial PC	0SY
+Modicon Wiring Diagram Generator		5793-AHF/01	500										Industrial PC	0SY
+Modicon 484 Draftec		5793-AHE/01	950										Industrial PC	0SY
+Modicon 484 Ladder Logic Documentation		5793-AHE	1250										Industrial PC	0SY
+Modicon 484 Wiring Diagram Generator		5793-AHE/02	500										Industrial PC	0SY
+Modicon 584/884/984 Ladder Logic Documen		5793-AHF	2500										Industrial PC	0SY
-Numerical Geometry System APT-AC Bridge		5785-EAN	7260			330						24.GB21-2608	5785-EAH	1SH
-Numerical Geometry System - Advanced		5785-EAJ	29040			1385						24.GB21-2608	5785-EAH	1SH
-Numerical Geometry System - Basic		5785-EAH	33880			1540						24.GB21-2608	MVS	1SH
Order Ent & Inv - Upgrade from MAPICS	MAPICS II	5714-M79/01	2630			2314						.4625,9617		1SE
Order Entry and Invoicing	MAPICS	5714-M49	4040		142	3175		105				.GH30-0708	System/38	11D
+Order Entry and Invoicing	MAPICS II	5714-M79	5520		280	4858						.GH30-9036	System/38	1SE
Order Entry and Invoicing	MAPICS	5726-M49	3935		161	2955		119				.GH30-0221	System/34	11X
Order Entry and Invoicing	MAPICS	5727-M49	4125		238	3095						.GH30-9001	CASS	1SB
Order Entry and Invoicing	MAPICS II	5727-M79	5280		264	4645						.GH30-9004	CASS	1SE
Order Entry and Invoicing - Mfg	MMAS	5726-M39	1940			94						.GH30-0220	System/34	11C
-Order Entry/Invoice to Gen Ledgr Interfc	MAPICS	5798-RTB	550									.GB30-2402	S/34+0rd Entry	1SX
Order Entry/Invoice to Gen Ledgr Interfc	MAPICS	5798-RTC	525									.GB30-2402	S/36+0rd Entry	1SX
Order Entry/Invoice to Gen Ledgr Interfc	MAPICS	5798-RTD	550									.GB30-2402	S/38+0rd Entry	1SX
+Payroll	MAPICS II	5714-M72	4370		220	3846						.GH30-9036	System/38	1SE
Payroll	MAPICS	5727-M42	3795		220	2845						.GH30-9001	CASS	1SB
Payroll	MAPICS II	5727-M72	4180		209	3345						.GH30-9004	CASS	1SE
Payroll - Mfg	MMAS	5726-M32	1575			77						.GH30-0220	System/34	11C
Payroll - Upgrade from MAPICS		5714-M72/01	1930			1698						.4604,9603		1SE
Payroll Distributors Mfg MAPICS	DFAS II	5726-M42	3620		146	2715		109				.GH30-0221	System/34	11X
Payroll Manufacturing	MAPICS	5714-M42	3410		123	2560		92				.GH30-0710	System/38	11D
Plant Auto Comm Sys/Mod Transfer Facilit	PACS/MTF	5798-RNN	1900									.G320-0836	MVS+VTAM+EDX on S/1	1SH
Plant Automation Communic - Sourcecode		5798-DRX/01	660			30						3000,3046		1SH
Plant Automation Communication System		5798-DRX	8800		400							.G320-9245	EDX Communic Facil	1SH
Process Development System		5798-DLA	2850									.GB30-2004	Series/1	1SX
Product Data Management	MAPICS	5714-M46	5985		213	4485		159				.GH30-0709	System/38	11D
+Product Data Management	MAPICS II	5714-M76	8860		445	7797						.GH30-0937	System/38	1SE
Product Data Management	MAPICS	5726-M46	6105		238	65000		177				.GH30-0221	System/34	11X

Program Title	Short Name	Number	OTC	ILC	MLC	DSO	DSI	DSH	MLP	MML	Mo	MoreInfo	Environment	TPLS
Product Data Management	MAPICS	5727-M46	6105		353	4580						.GH30-9002	CASS	15B
Product Data Management	MAPICS II	5727-M76	8470		423	7450						.GH30-9006	CASS	15E
Product Data Mgt - Upgrade from MAPICS	MAPICS II	5714-M76/01	4590			4039						.4616,9611		15E
Product Definition & Costing - Mfg	MMAS	5726-M36	1470		72							.GH30-0220	System/34	11C
Production Control and Costing	MAPICS	5714-M41	6665		231	5000		178				.GH30-0709	System/38	11D
+Production Control and Costing	MAPICS II	5714-M71	8450		425	7436						.GH30-9037	System/38	15E
Production Control and Costing	MAPICS	5726-M41	6405		261	4800		195				.GH30-0221	System/34	11X
Production Control and Costing	MAPICS	5727-M41	6710		383	5030						.GH30-9002	CASS	15B
Production Control and Costing	MAPICS II	5727-M71	8085		407	7115						.GH30-9006	CASS	15E
Production Ctl - Upgrade from MAPICS	MAPICS II	5714-M71/01	3690			3247						.4601,9601		15E
Production Status and Costing Mfg	MMAS	5726-M31	1575		77							.GH30-0220	System/34	11C
+Professional CADAM tm		5669-193	15000									RT AIX tm+graPHIGS		05H
Purchasing	MAPICS II	5727-M7K	9600		480	8450						.GH30-9006	CASS	15E
QualityAlert tm		5793-AFA	795									GB30-2037	5531,7531,7532	05Y
Requirements Planning		5734-M51	7620		265							.GH20-4618	DS/MFT/MVT/V5	11C
Requirements Planning Connection Records		5734-M51/01	1085		36							.GH20-4618	4541,4543	11C
+RPS MAP tm Communications Server		5719-XT2	9500		679							SL23-0148	XHCS	15M
+RS/1 tm 8 CSTU		5664-316	23000									.G320-0840	VM+GDDM PGF	.115E
+RS/1 tm 40 CSTU		5664-316/01	45000									.G320-0840	4731,4732	.115E
+RS/1 tm Unlimited CSTU		5664-316/03	144000									.G320-0840	4731,4732,4733,4734	.115E
+RS/1 tm 100 CSTU		5664-316/02	84000									.G320-0840	4731,4732,4733	.115E
Sales Analysis	MAPICS	5714-M48	3410		121	2560		90				.GH30-0708	System/38	11D
+Sales Analysis	MAPICS II	5714-M78	4200		210	3696						.GH30-9035	System/38	15E
Sales Analysis	MAPICS	5726-M48	3515		143	2640		108				.GH30-0221	System/34	11X
Sales Analysis	MAPICS	5727-M48	3685		215	2765						.GH30-9000	CASS	15B
Sales Analysis	MAPICS II	5727-M78	4015		203	3530						.GH30-9005	CASS	15E
Sales Analysis - Mfg	MMAS	5726-M38	1575		77							.GH30-0220	System/34	11C
Sales Analysis - Upgrade from MAPICS	MAPICS II	5714-M78/01	1760			1349						.4622,9615		15E
Series/1-PC Connect		5719-CN1	400									6520-0102	RPS and D05	15L
-Softcopy - a CADAM (R) Drawing Viewer		5796-PNP	7650		347							.G320-6388	MV5,VM-3277GA	15E
Special Realtime Operating System	RPQ-Z06751	5799-AHE	60660		5515						12	SH20-1773	V51	21B
SQCpack tm		5793-AEZ	595									GB30-2037	5531,7531,7532	05Y
Taylor Industrial - Modicon 484/584/884		5793-AGD	2500									GB30-2037	5531,7531,7532	05Y
+Texas Instruments Ladder Logic Documenta		5793-AHG	2500										Industrial PC	05Y
+THE FIX BASIC Data Base Access		5793-AGQ/13	395									GB30-2027	6595	05Y
+THE FIX BASIC Data Base Access		5793-AGH/01	395									GB20-2037	6595	05Y
+THE FIX C Language Data Base Access		5793-AGQ/14	395									GB30-2027	6596	05Y
+THE FIX C Language Data Base Access		5793-AGH/02	395									GB20-2037	6596	05Y
+THE FIX Device Driver for ACRO-900 tm		5793-AGQ/06	795									GB30-2027	5793-AGW	05Y
+THE FIX Device Driver for DT 2808		5793-AGQ/08	795									GB30-2027	5793-AGW	05Y
+THE FIX Device Driver for IBM DACA		5793-AGQ/05	795									GB30-2027	5793-AGW	05Y
+THE FIX Device Driver for MODBUS tm		5793-AGQ/09	1095									GB30-2027	5793-AGW	05Y
+THE FIX Device Driver for OPTOMUX tm		5793-AGQ/10	795									GB30-2027	5793-AGW	05Y
+THE FIX Device Driver for PLC-2 tm		5793-AGQ/07	795									GB30-2027	5793-AGW	05Y
+THE FIX Eng Devt with EPROM for C/GA		5793-AGQ/02	2100									GB30-2027	Industrial PC	05Y
+THE FIX Eng Devt with EPROM for EGA		5793-AGQ/03	2100									GB30-2027	Industrial PC	05Y
+THE FIX Historical Trending		5793-AGQ/16	650									GB30-2027	6598	05Y
+THE FIX Historical Trending		5793-AGH/05	650									GB20-2037	6598	05Y
+THE FIX OEM Toolkit		5793-AGQ/11	1250									GB30-2027	5793-AGW	05Y
+THE FIX Online Report Package		5793-AGQ/15	150									GB30-2027	6593	05Y

Program Title	Short Name	Number	OTC	ILC	MLC	DSO	DSI	DSM	MLP	MML	Mc	MoreInfo	Environment	TPLS	
+THE FIX Online Report Package		5793-AGM/04	150									GB20-2037	6593	0SY	
+THE FIX Online Spreadsheet Interface		5793-AGM/03	250									GB20-2037	6597	0SY	
+THE FIX Runtime with EPROM for EGA		5793-AGQ/04	2675									GB30-2027	Industrial PC	0SY	
+THE FIX tm Runtime w/EPROM for CGA/EGA		5793-AGH	2675									GB20-2037	Industrial PC	0SY	
+THE FIX tm with EPROM for C/GA		5793-AGQ	4500									GB30-2027	Industrial PC	0SY	
+THE FIX tm with EPROM for CGA/EGA		5793-AGX	2100									GB30-2037	Industrial PC	0SY	
+THE FIX tm with EPROM for EGA		5793-AGQ/01	4500									GB30-2027	Industrial PC	0SY	
+THE FIX User's Guides Set		5793-AGQ/12	125									GB30-2027	5793-AGH	0SY	
+Token-Ring Network Bridge Install Kit		6476-041	3285									GA27-3677	2 TR Nets+AT,AT-Ind	0SM	
+Token-Ring Network Bridge Program		6403-831	1495									GA27-3677	2 TR Nets+AT,AT-Ind	0SM	
TRY-COPICS	COPICS	7798-COP	nc										Information Network	N0SX	
-XY/750 Plotter Support for GDDM		5798-DMK	1540									.GB21-3054	TSD,CMS	1SX	
3630 Plant Communication Host Services		5744-CR1	nc									GA24-3721	0S/VS	N0SX	
3630 Plant Communication System Host		5747-CJ1	nc									GA24-3721	D0S/VS	N0SX	
3630 Plant Monitoring Enhancements		5798-DAH/01				75						24.GB21-2506	9566	1SX	
3640 CICS/VS Extensions - 4331 Loops	RPQ-P90000	5799-BEH				73							D0S/VSE,0S/VS1	1SX	
3644 Parameter Table Generation Facility	GEN3644	5668-998	2400			78	1800			55	7	11	D0S/VSE,0S/VS1	1SX	
-3800 3-of-9 Bar Code Print		5798-DMH	3300										.GB21-3048	0S/VS	1SX
401K Tax-deferred Savings Plan	MAPICS	5798-RWF	300										.GB30-3316	S/38 MAPICS Payroll	1SX
401K Tax-deferred Savings Plan	MAPICS	5798-RWG	300										.GB30-3316	S/34 MAPICS Payroll	1SX
401K Tax-deferred Savings Plan	MAPICS	5798-RNH	300										.GB30-3316	S/36 MAPICS Payroll	1SX
5250 Data Collection Support	DCSS	5726-M3A	1575					77					.GH30-0220	System/34	1IC
7361 Fastdraft System		5719-GP1				1070	160						36 GC34-0513	7361+3101+3251	2SX

## Information Systems Management

This is the Information Systems executive's favorite cluster—the tools and aids for the planning and control of the computing and communications infrastructure. The emphasis clearly is on current level installations of VSE, VM and MVS operating systems.

An important item in this edition is the new version of INFO/SYS components. Be sure that you at least have started to formulate your replacement plan. Most managers also will wish to review the following listing of Audit and Security systems and aids. Senior executives should verify that the IBM Software Catalog (form number GBOF1982) is on their System Library Subscription. Contact your IBM representative for details.

VSE installations planning to migrate to MVS should evaluate UCC TWO™ 5796-PWW and the VSE JCL Conversion Aid. These products can save the time of key technical resources

and reduce the migration effort. See the article on these products in the Software Fair pages.

With the advent of the Distributed system, executives of the computing establishment accepted major responsibilities for communications and decentralized coordination. Now, with the explosive growth of PCs, the opportunities are even better. The task is, to—encourage users to obtain the little computer; yes. But diplomacy and planning are called for, so that compatibility is established to host communications and data base. This benefits everybody. It is the best way for the professional user to realize the enormous potential of local, personal and networked computing. In this issue (rose pages) you will note a significant IBM direction toward host and peer connectivity to the Personal Computer. The principal implementations (featured in the rose pages) are the IBM Token Ring Network for local area network, and either PC/VM Bond or Attachment/370+.

Program Title	Short Name	Number	OTC	ILC	MLC	DSO	DSI	DSM	HLP	HML	HQ	MoreInfo	Environment	TPLS
Access Control Logging and Reporting	VSE/ACLR	5746-XE7	2360										GH12-5130 DOS/VSE,SSX/VSE	15K
Account Network Management Program	ANMP	5798-DAT	5880	267		2125							.GB21-2521 CICS/DOS/VS	11X
-ACF Network Generation Aid		5798-DFP	1045										.GB21-2809 MVS, DOS/VSE	15X
Application Program Performance Extender		5798-DNL	2750										.GB21-3123 MVS	15H
Cable Data Management System		6317-002	450										G570-2040 PC+IBM Cabling System	OSX
Capacity Planning Extended	CPX	5798-CYN	4410		189								.GB21-2391 OS/VS,5798-CPR	11X
Change Management Tracking	CMT	5740-DC1	12180		554								.GH19-6028 OS/VS	15C
Change Tracker	CT	5740-DC4	4550		207								.GH19-6028 OS/VS	15C
-CICS Performance & Capacity Planning		5798-DKF	1085										.GB21-2991 5798-CFP	15X
-CICS/IMS Data Collector Capacity Plan	CPX	5798-DML	1815										.GB21-3057 OS/VS,CICS/VS	15X
-CICS/VS Operations Support Package		5798-DBJ	484		44						12		.GB21-2554 DOS/VSE, DOS, VS, OS/VS	15H
+CICSPARS/MVS		5665-355			900			675					CICS/MVS	15E
Cross Domain Network Data Transfer		5798-DAE	1320										.GB21-2498 Replaced by 5668-932	15H
Data Processing Accounting for IMS/VS	DPA	5740-DC2	10670		485								.GH19-6028 OS/VS	11C
DPPX Load Evaluation Simulator		5785-EDB	5280		240								.G320-9210 COBOL	15H
DPPX Performance Tool Monitor	PT/DPPX	5760-XR5	1890		69								.GH20-2155 DPPX	15B
DPPX Performance Tool Reporter Feature	PT/DPPX	5760-XR5/01	2205		80								.GH20-2155 4504,4505	15B
Environmental Recording Editing Printing	EREP 3.2	5654-260	nc										GC28-1378 VM,VM-HPO,VM/XA	NOSS
Environmental Recording Editing Printing	EREP	5656-260	nc										GC28-1378 VSE	NOSS
Environmental Recording Editing Printing	EREP	5658-260	nc										GC28-1378 VS1,MVS,XA	NOSS
General Performance Analysis Reporting	GPAP	5798-CPR	1710		83								.GB21-2091 OS/VS1, MVS, SVS	11E
Generalized Performance Analysis Report	GPAP/DOS	5798-DAA	1365		66								.GB21-2491 DOS/VSE	15E
Generalized Trace Facility Analysis	GTFPARS	5798-CQQ	2310		94								.GB21-2142 OS/VS, 5798-CPR	11E
IMS Monitor Summary & System Analysis II	IMSASAP	5798-CHJ	3675		165								.GB21-1792 IMS/VS+GPAP	11E
IMS Performance Analysis & Reporting	IMSPARS	5798-CQP	4155		203								.GB21-2139 IMS/VS V1,5798-CPR	11E
Info/MVS Direct Load Feature		5665-955/01			580								.4582	05C
Info/MVS Direct Load Feature		5668-919/01			190								.4788	05C
Information / Access Version 1		5665-950		3300	362		2475	270	28	45			.GC34-2096 V2 of INFO/SYS & MGT	15K
Information / Library	INFO/LIB	5665-277		536	205		401	154	15	24			.GH12-5136 MVS, XA+MCCF	15K
Information / Management Version 2	INFO/MGMT	5665-953		2950	363		2200	270	32	51			.GC34-2098,5665-952	15K
Information / MVS	INFO/MVS	5665-955			305				9	14			.5665-952	05C
Information / System Version 2	INFO/SYS	5665-952		2705	311		2033	233	56	90			.GC34-2096 MVS	15K
Information / VM-VSE	INFO/VMVSE	5668-919			150								.GC34-2070 5665-952	05C
Information System Model & Architecture	ISMDD	5785-FBA	14300		650								.G320-9235 MVS,VM	15H
Information Systems Mat Analysis		6316-974	549										.3209-208 PC,XT	05H
Information/Access Version 2		5665-267		5550	747		2665	563	20	32			.GC34-2096 MVS+V2 of Info/Sys	15X
Information/Management Version 2		5664-953		3155	363		2354	270	25	40			.GC34-2185 VM+Info/Sys Version2	15K
+Information/Management Version 3		5664-322	8800		500	6600		375	44	70			.GC34-4045 Info/Sys V3+VM	15K
+Information/Management Version 3		5665-383	8800		500	6600		375	58	93			.GC34-4045 Info/Sys V3+MVS	15K
Information/System Version 2		5664-952		2705	311		2033	233	49	72			.GC34-2185 VM+ISPF	15K
+Information/System Version 3		5664-323	8000		450	6000		337	52	83			.GC34-4045 VM	15K
+Information/System Version 3		5665-384	8000		450	6000		337	49	78			.GC34-4045 MVS	15K
-Installation Management Documentation		5798-C2W	1085		99						12		.GB21-2481 OS/VS	11H
Interactive Problem Control	IPCS	5746-SA1	880		40	660		26	6	11			.GC34-2017 DOS/VSE	15K
Interactive Problem Control System	IPCS	5748-SA1	1100		55	787		36	6	10			.GC34-2019 VM/CMS	15K
JCL Conversion Aid from VSE to MVS or XA		5798-DPH	11000		500								.G320-0440 VSE and MVS	15H
JES3 Monitoring Facility II	JMF II	5796-PLW	5080		231								.G320-6159 MVS,MVS/XA	15E
Library/MVS Release 2.1 (and Update C)		5665-294		399	133		297	99					GC28-1125 Information/Library	15C
Link Pack Area Optimizer		5798-DKP	1650										.GB21-3010 MVS	15H
-Load Module Analysis Program		5798-DMF	1210										.GB21-3044 OS/VS	15X

Program Title	Short Name	Number	OTC	ILC	MLC	DSO	DSI	DSH	MLP	MML	Mo	MoreInfo	Environment	TPLS
Network Management Productivity Facility	NMPF	5798-DPC	800									.G320-9165	MVS+NCCF	15H
Network Performance Analysis & Reports	NETPARS	5798-CZX	1890		77							.GB21-2487	OS/VS, 5798CPR	15E
Network Performance Monitor Release 2	NPM	5665-333		3210	615		2410	460	57	91		.GH20-6359	MVS+VTAM	25K
Network Problem Determination Appl Ver 2	NPDA	5668-983		1210	113		907	85	27	43		GC34-2061	5735-XX6	15K
Network Services		7798-NET	nc										Information Network	N05C
Operations Planning & Control	OPC	5740-XT9	38390		1745	26950		1225				.GH19-6120	OS/VS	21L
Operator Communications Control Facility	OCCF	5746-XC5	5800		155	5220		139	13	21		GC33-6113	VSE/AF Version 2	15K
OS/VSI Performance Tool	VS1PT	5796-PGL	6600		398							.G320-5680	OS/VS1	15X
-Print Load Analyzer		5798-CXY	1085		99						12	.GB21-2355	OS/VS	11H
Print Spooling System for CICS/VS		5785-DCN	3365		255							.GB21-2970	DOS/VSE, MVS, CICS/VS	15X
Problem Statement Language and Analyzer	PSL/PSA	5796-BDX	49500									.G320-2719	VM, MVS	15H
RACF Productivity Aid		5798-CYF	2745		208							.GB21-2370	MVS, MVS/XA	15H
Realtime Monitor	RTM	5796-PNA	1000		50							.G320-6165	VM/CMS	15E
Resource Limiter		5798-DKN	2475									.GB21-3005	VM	15X
Resource Measurement Facility Ver 3.4.1	RMF	5665-276		2250	750		1686	562	67	107		GC28-1398	MVS/XA	25K
Resource Measurement Facility Version 2	RMF	5740-XY4			406			304	17	27		GC28-0921	MVS	15K
Response Time Estimator (Feature 9231)		6316-968	275									.G320-0334	PC, PCjr, XT, 3270-PC	05H
Secondary Operator Facility		5798-CRE	1005									.GB21-2179	OS/VS2, MVS/XA	15H
Serial OEM Interface	SOEMI	5666-330	2500		139							GA33-1585		25E
Serial OEM Interface Access Method	SOEMI	5664-201	2500		139							GA33-1585		25E
Service Level Reporter Version 2	SLR	5668-966		2130	815		1600	611	99	159		.GH19-6213	OS/VS, MVS/XA	11K
-SMF Graphical Analysis Program		5796-AFP	200								12	.G320-8127	OS/VS, MFT, MVT	11H
SMF Job Data Compression Aid	JDCA	5796-PHN	4290		187							.G320-5714	OS, OS/VS, MVS/XA	11X
-SMF Problem Program Activity Report		5798-CPP	968		88						12	.GB21-2089	MVS	11H
Source Compare Audit Utility	SUPER-C	5796-PLZ	2640		100							.G320-6163	VSI VM/CMS MVS	11H
System Modification Program Extended	SMP/E	5668-949		1920	380		1440	285	97	155		GC28-1106	OS/VS, MVS/XA	15K
-Systems Library Subscription Service Mgt	SLSS	5798-CTE	814		74						12	.GB21-2222	OS/VS	15H
-Tape Automation - Production Environment		5798-DGB	2520									.GB21-2828	DOS/VSE	15H
Tape Library Control System		5785-EAH	8580		390							.G320-6652	MVS	15H
Teleprocessing Network Simulator 2.3	TPNS	5662-262			1875							.GH20-2487	MVS, XA, VM	11E
TSO Host Server for PC XT/370 (VM/PC)	TSOSERV	5798-DTL	2420									G520-3917	MVS+VTAM	15H
-Virtual Storage Analysis	IMSVSAP	5798-CHC	726		66						12	.GB21-2002	OS/VS, MVS, XA+IMS/VS	15H
Virtual Storage Monitor		5798-DEL	792									.GB21-2721	MVS, 5740-XY4	15H
-Virtual Tape Librarian	VLIB	5796-FNZ	1104		46							.G320-6421	VM/CMS	15H
VSE/Advanced Functions Version 2.1	VSE/AF	5666-301	11430		438	10287		394	108	173		GC33-6189	VSE	15K
VSE/System Package 2.1.4 Refresh	VSE/SP	5666-316	48500		2160	43650		1945	433	693		GC33-6176	4300, 303x, 308x, S/370	25K
VSE/System Product - Partial Function	RPQ 7B0919	5799-BWH	12490		502	11240		452	433	693			4300, 303x, 308x, S370	15K
VTAM Performance & Analysis Reporting II	VTAMPARS 2	5798-DFE	5570		504	198						.GB21-2786	Succeeded by NPM	15E
-VTAM Performance Analysis & Reporting	VTAMPARS	5798-CTH	1625		74							.GB21-2246	OS/VS, 5798-CPR	11X

## Instrumentation and Robotics

This Cluster and Decision Support are logical extensions of the Engineering and Scientific Cluster. Principal hardware is the new System 9000 (based on the 68000 chip) microcomputer and its intimate family of software. The IBM Robot (7565) and its CATIA™ support is the newly announced entry

into the field of industrial automation. The Personal Computer plus the 8087 Math Co-processor chip are supported by the PC/IX operating system and its C compiler; see the article in the rose pages. You also should scan the Engineering and Scientific cluster; perhaps also Series/1.



Program Title	Short Name	Number	OTC	ILC	MLC	DSO	DSI	DSM	MLP	MML	Mo	MorsInfo	Environment	TPLS	
Assembler 2 5.25" diskette		5669-068	495										CS05 2 9000	05X	
Assembler 2 8" diskette		5669-068/01	495										4516	05X	
BASIC on 5.25" Diskette		6092-498	195									GC22-9184	CS05 Extensions	05W	
BASIC on 5.25" Diskette	XENIX tm	6419-529	195									GC22-9184	XENIX+System 9000	05W	
BASIC on 8" Diskette		6089-578	195									GC22-9184	CS05 Extensions	05W	
BASIC on 8" Diskette	XENIX tm	6419-506	195									GC22-9184	XENIX+System 9000	05W	
BASIC 1.2 5.25" diskette		5669-079	195										CS05 Ext 1.13	05X	
BASIC 1.2 8" diskette		5669-079/01	195										4505	05X	
BASIC 2 5.25" diskette		5669-082	495										CS05 2	05X	
BASIC 2 8" diskette		5669-082/01	495										4579	05X	
C Compiler on 5.25" Diskette	XENIX tm	6179-244	595										XENIX+System 9000	05W	
C Compiler on 5.25" Diskette		6419-508	595										CS05	05W	
C Compiler on 8" Diskette	XENIX tm	6179-243	595										XENIX+System 9000	05W	
C Compiler on 8" Diskette		6419-507	595										CS05	05W	
C Version 2 5.25" diskette		5669-071	595										CS05 2	05X	
C Version 2 8" diskette		5669-071/01	595										4513	05X	
C 1.2 5.25" diskette		5669-081	595										CS05 Ext 1.13	05X	
C 1.2 8" diskette		5669-081/01	595										4503	05X	
*Circuit Board Design - Circuit Pack 4.1	CBDS	5796-PRP	48600	8355	2785			58351945					G320-9175	VM+5080/3250/3277GA	TLSE
Circuit Board Design - Design Verify	CBDS	5796-PRL	23400	2085	695	16380	1455	485					G320-9175	5796-PRP	TLSE
CS05 Extensions 1.13 5.25" diskette		5669-075	155										System 9000	05X	
CS05 Extensions 1.13 8" diskette		5669-075/01	155										4509	05X	
CS05 2 5.25" diskette		5669-072	495										System 9000	05X	
CS05 2 8" diskette		5669-072/01	495										4512	05X	
Data Acquisition and Control Adapter		6024-202	175										G520-1107	DACS adapter+D052+	05Z
Diagnostics Diskettes Version 29 8"		5669-135	nc										CS05 1.13	NO5X	
FORTRAN (on eight-inch diskette)	XENIX tm	6294-124	595										GC22-9194	System 9000+XENIX	05E
FORTRAN (on 5.25-inch diskette)	XENIX tm	6294-125	595										GC22-9194	System 9000+XENIX	05E
FORTRAN 1.2 5.25" diskette		5669-078	595										CS05 Ext 1.13	05X	
FORTRAN 1.2 8" diskette		5669-078/01	595										4506	05X	
FORTRAN 2 5.25" diskette		5669-070	695										CS05 2 9000	05X	
FORTRAN 2 8" diskette		5669-070/01	695										4514	05X	
FORTRAN 77 on 5.25-inch Diskette		6092-526	595									GC22-9194	CS05 Extensions	05W	
FORTRAN 77 on 8" Diskette		6092-525	595										CS05 Extensions	05W	
GDDM Graphics Data File - Color Support		5668-860	1100										GA23-0186	MVS,VM+7371/2/3/5	1SE
General Purpose Interface Bus Adapter	GPIB	6024-201	89										G520-1107	GPIB+D052+	05Z
LISP		5798-DQZ	7150		325								G320-0349	VM	25H
Operating System Extensions on 5.25"Disk	CS05	6092-497	155										GC22-9199	CS9000	05W
Operating System Extensions on 8" Disk	CS05	6089-579	155										GC22-9199	CS9000	05W
Pascal (on eight-inch diskette)	XENIX tm	6294-122	595										GC22-9190	System 9000+XENIX	05E
Pascal (on 5.25-inch diskette)	XENIX tm	6294-123	595										GC22-9190	System 9000+XENIX	05E
Pascal on 5.25" Diskette		6092-524	595										GC22-9190	CS05 Entensions	05W
Pascal on 8" Diskette		6092-523	595										GC22-9190	CS05 Extensions	05W
Pascal 1.2 5.25" diskette		5669-077	595										CS05 Ext 1.13	05X	
Pascal 1.2 8" diskette		5669-077/01	595										4507	05X	
Pascal 2 5.25" diskette		5669-069	695										CS05 2	05X	
Pascal 2 8" diskette		5669-069/01	695										4515	05X	
Personal Editor on 5.25" Diskette		6299-923	125										GC22-9268	CS05+9001+Printer	05W
Personal Editor on 5.25" Diskette		6299-931	125										GC22-9268	CS05+9001	05W
Personal Editor on 5.25" Diskette		6419-591	125										GC22-9268	CS05+9002	05W

Program Title	Short Name	Number	OTC	ILC	MLC	DSO	DSI	DSM	MLP	MML	Mo	MoreInfo	Environment	TPLs
Personal Editor on 8" Diskette		6299-922	125									GC22-9268	CS05+9001+Printer	05M
Personal Editor on 8" Diskette		6299-930	125									GC22-9268	CS05+9001	05M
Personal Editor on 8" Diskette		6419-590	125									GC22-9268	CS05+9002	05M
Personal Editor 1 9001 5.25" diskette		5669-076/01	125										4508	05X
Personal Editor 1 9001 5.25" diskette		5669-076/02	125										4508 w/o printer	05X
Personal Editor 1 9001 8" diskette		5669-076/04	125										4508	05X
Personal Editor 1 9001 8" diskette		5669-076/05	125										4508 w/o printer	05X
Personal Editor 1 9002 5.25" diskette		5669-076	125										CS05 Ext 1.13	05X
Personal Editor 1 9002 8" diskette		5669-076/03	125										4508	05X
Plant Automation Communic - Sourcecode		5798-DRX/01	660		30								3000,3046	15H
Plant Automation Communication System		5798-DRX	8800		400							.G320-9245	EDX Communic Facil	15H
Programmers ToolKit Version 2 5.25"		5669-067	160										CS05 2	05X
Programmers ToolKit Version 2 8"		5669-067/01	160										4517	05X
*Research Queueing Package	RESQ	7798-RSQ	7800										VM, MVS	05E
RM/CDBOL tm (on eight-inch diskette)	XENIX tm	6294-120	1250									GC22-9267	System 9000+XENIX	05E
RM/CDBOL tm (on 5.25-inch diskette)	XENIX tm	6294-121	1250									GC22-9267	System 9000+XENIX	05E
Scientific Subroutine Lib on 5.25" Disk		6331-471	325									GC22-9262	CS05 Ext+FORTRAN	05M
Scientific Subroutine Library on 8" Disk		6331-473	325									GC22-9262	CS05 Ext+FORTRAN	05M
Scientific Subroutine Library on 8" disk	XENIX tm	6419-369	325									GC22-9262	S/9000+FORTRAN, Pasca	05M
Scientific Subroutine Library 1.1 8"		5669-083/01	325										4520	05X
Scientific Subroutine Library 1.1 5.25"		5669-083	325										CS05 Ext 1.13	05X
Scientific Subroutine Library 5.25" disk	XENIX tm	6419-472	325									GC22-9262	S/9000+FORTRAN, Pasca	05M
SmartTerm tm 100 on 8" diskette		6294-109	165									GC22-9269	CS05	05M
SmartTerm tm 100 VT-52,VT-100,VT101,VT102		6294-110	165									GC22-9269	CS05+5.25" diskette	05M
SmartTerm tm 100 1 5.25" diskette		5669-074	165										CS05 1.13	05X
SmartTerm tm 100 1 8" diskette		5669-074/01	165										4510	05X
XENIX tm (on ten eight-inch diskettes)		6331-444	995									GC22-9248	System 9000	05E
XENIX tm (Preinstalled on 1-side hardisk		6331-443	995									GC22-9248	System 9000	05E
XENIX tm (Preinstalled on 2-side hardisk		6419-595	995									GC22-9248	System 9000	05E
-XY/750 Plotter Support for GDDM		5798-DMK	1540										GB21-3054 TSO,CMS	15X
3101 Emulation on 5.25" Diskette		6331-472	160									GC22-9263	CS05 Extensions	05M
3101 Emulation on 8" Diskette		6331-474	160									GC22-9263	CS05 Extensions	05M
3101 Terminal Emulation 1 5.25"		5669-073	160										CS05 1.13	05X
3101 Terminal Emulation 1 8"		5669-073/01	160										4511	05X
7361 Fastdraft System		5719-GP1		1070	160						36	GC34-0513	7361+3101+3251	25X
737x Industry Std Plotting Commands		5796-BDZ	395									GC23-0120	MVS,VM,RS232+FORTRAN	15X

<u>Program Title</u>	<u>Short Name</u>	<u>Number</u>	<u>OTC</u>	<u>ILC</u>	<u>MLC</u>	<u>DSO</u>	<u>DSI</u>	<u>DSM</u>	<u>MLP</u>	<u>MML</u>	<u>Mo</u>	<u>MoreInfo</u>	<u>Environment</u>	<u>TPLS</u>
-Alpha Search Inquiry - IMS Interface		5798-AWB	8105		737							12.GB21-0987	OS	11H
-Alpha Search Inquiry Sys Online Update		5798-CFJ	4840		440							12.GB21-1677	CICS/DOS/OS/VS.CMS	15H
Alpha Search Inquiry System	ASIS	5736-N14	6375		303							.GH20-1188	CICS/OS/DOS/VS.CMS	15C
Consolidated Functions Ordinary Vers 2	CFO	5736-N13	10370		500							.GH20-5006	OS/DOS	11C
<del>Group Life Management System</del>		<del>5796-PQF</del>		<del>2015</del>	<del>753</del>							<del>24.G320-6648</del>	<del>VM,DOS/VSE</del>	<del>15X</del>
Insurance Communication Service	ICS	7798-ICS		nc									Information Network	N05C
Legal Diary System	LDS	5796-BTT	49500										CICS/OS/VS	25X
Life Inquiry / Data Entry	LI/DE	5746-N11	25220		1215							.GH20-1499	CICS/DOS/OS/VS/IMS	11C
RPS Client Prospect File		5710-RTK/01	5170		235								2105,2112	15X
RPS Expanded Estate Planning		5710-RTK/03	1210		55								2107,2114	15X
-RPS Life Agency System - Common Base		5710-RTK	880		40							.GB30-2424	Series/1	15X
RPS PC Connectivity - Common Sign & Menu		5710-RTJ	550									.GB30-2428	5799-TGC+PC	15X
RPS PC Connectivity - Printer Emulation		5710-RTJ/01	385										2110	15X
RPS Sales Proposals and Illustrations		5710-RTK/02	2530		115								2106,2113	15X
<del>US Geographic Demographic System</del>		<del>5798-DJQ</del>	<del>2365</del>									.GB21-3020	VM/CMS,MVS/T50.GDDM	15X

Program Title	Short Name	Number	OTC	ILC	MLC	DSO	DSI	DSH	HLP	HML	Mo	MoreInfo	Environment	TPLS
Bulk Data Transfer		5796-PKK	1580		60							.G320-6060	OS/V52	15H
-CPS Remote Job Entry	RJE	5798-NPZ	341		31							12.GB30-1134	Series/1	15H
EDX Advanced Remote Job Entry	ARJE	5719-RJ1	1050		66							GC34-0458	S/1+MVS,VM,DOS/VSE	15X
-EDX Multileaving RJE	MRJE	5796-RHJ	1485									.GB30-1762	Series/1	15X
EDX Systems Network Architecture RJE	SNA	5719-SX2	1000		34							SC34-0402	Series/1	15X
File Transfer Program Version 1	FTP	5748-XE6	1415		55	1060		40	5	8		.GH12-5129	Replaced by Version2	15K
HASP-JES2 Spool Transfer Program		5798-CKJ	3165		480							.GB21-1903	OS/MFT/MVT/SVS/MVS	01H
-JES/328x Print Facility		5785-BAB	2750									.GB21-3059	Replaced by 5785-BAC	15X
JES2 Information Retrieval System - CMS		5796-AYD	3960		300							.G320-6334	VM/CMS	15H
-JES3 Networking PRPQ	RPQ-P09022	5799-AZT		2055				1545	326	522		.GH20-2204	NJE	25K
Job Entry Program	JEP	5746-XE6		258				193	38	61		GH12-5129	DOS/VSE	15K
MVS/SP - JES2 1.1		5740-XYS		2150				1612	117	187		GC28-1395	5752-VS2	25K
MVS/SP - JES3 1.1		5740-XYN		2150				1612	117	187		GC28-1395	5752-VS2	25K
MVS/SP - JES3 1.2 or 1.3		5740-XYN/01		230				172	400	640		GC28-1395	6144,6524	25K
MVS/SP/JES2 1.3.5 and 1.3.6	JES2	5740-XYS/02		2170				1627	240	384		GC28-1025	4525,6143,9525	25K
MVS/SP/JES3 1.3.5	JES3	5740-XYN/02		2380				1784	517	827		GC28-1025	4524,9524	05K
Remote Job Entry Facility	RJEF	5714-RC1	5000		185	4400		163				GC21-7916	System/38	15A
Remote Job Entry Workstation	RJE	5746-RC9	3780		135							.GH20-2199	VSE To VM,OS/VS	15B
-Remote Job Entry Workstation RJE	RPQ-WF0358	5799-WHX		nc								.GH20-1574	DOS/VS	N05C
Remote Spooling Communication Subsystem	RSCS/SNA	5796-PXF	3850									.G320-0323	VSE+VM+6670 line dvr	15X
Remote Spooling Communications / SNA	RSCS/SNA	5798-DMJ	4950									.GB21-3050	VM+RSCS	15X
Remote Spooling Communications Subsys V2	RSCS	5664-188	6300		337	5355		287	38	61		GH24-5055	VM	15K
RPS Advanced Remote Job Entry	ARJE	5719-RJ6	1050		36							GC34-0459	Series/1	15X
SSP Multiple Session RJE	MSRJE	5727-SS1/05	3600		217	3165						GC21-9021	4510,4511,4604	15A
System/38 to VSE/POWER RJE BSC		5798-RKB	4155	544	189						12	.GB30-1873	System/38	15X
VSE/POWER Remote Job Entry Version 2	POWER/RJE	5746-XE3/01	3100		119	2325		107	23	37		GH12-5131	4564,4562,6502,6534	15K
VSE/POWER Shared Spooling - Version 2	POWER	5666-273/01			41			37	9	14		GH12-5131	6016,6017,6500	15K
VSE/POWER Shared Spooling Version 1	POWER	5746-XE3/02	1200		46	1080		42	9	14		GH12-5131	4565,4563,6503,6535	15K
VSE/POWER Version 1	POWER	5746-XE3	1800		68	1350		61	17	27		GH12-5131	DOS/VSE	15K

## Media

The major news item is for the System/370—the 4250 printer which produces camera-ready copy at 600 x 600 pel. It is powered by the Composed Document Printing Facility. This software driver can accept the formatted text output from Script or the graphics output from GDDM. It also can merge them to portray imbedded illustrations. A related offering is the Interactive Composition and Editing Facility. These pro-

ducts are in the range of medium-sized publishers as well as in-house publishers with an installed S/370.

Publishers are on the leading edge of Personal Computer communications. Many are making it easy for authors and contributing editors to transmit their copy between PCs or from PC to mainframe. An emerging popular standard is the 212A dial at 1200 baud. Programs to support this protocol are listed in the rose pages.

Program Title	Short Name	Number	OTC	ILC	MLC	DSO	DSI	DSM	MLP	MML	Mo	MoreInfo	Environment	PLP
Braille Text		5798-DNC	2640									.GB21-3093	VM,MVS	1SH
Characters for Mathematics and Science		5771-ACM	960									G520-0004	CDPF	1SE
Composed Document Printing Facility 4250	CDPF	5668-997	4800									GC33-6133	SCRIPT and/or GDDM	1SK
Dues Assessment - Trade Assn		5796-ZJA	3850									.GB30-2352	5796-ZHZ	1SX
Font Library Service Facility	FLSF	5668-890	2500									GC33-6165	ISPF+4250,3820	1SK
Fund Raising/Development - Trade Assn		5796-ZJB	3300									.GB30-2352	5796-ZHZ	1SH
General Ledger Distribution / Media	DMS/38	5714-D47	2675			93	2010					.GH30-0710	System/38	1ID
Graphics and Color / Script		5798-DMH	3080									.GB21-3074	DCF (Script)	1SX
Hadassah tm and Monotype Century tm		5771-ACN	1500									G520-0004	CDPF	1SE
Helvetica Condensed and Expanded tm		5771-ACB	1120									G520-0004	CDPF	1SE
Helvetica tm - Language Extensions		5771-ACF	4500									G520-0004	CDPF	1SE
Hotel Reservation & Guest Accounting Sys		5710-D01	66000									GB30-2034	System/38	1SH
Integrated Publishing System		5796-BDQ	1100									.G320-9128	Series/145796-BDP	1SX
Integrated Publishing System - Host		5796-BDP				3900	1495					24.G320-9128	VM/CMG+5796-BDP	1SK
Interactive Composition and Editing Ver2	ICEF	5798-DTD	25000									.G320-9798	VM+4250 or 3800 III	25X
ITC Korinna tm		5771-ACD	1280									G520-0004	CDPF	1SE
ITC Souvenir tm Upgrade from Ver 1 to 2		5771-ACC/01	320										4522	B1SE
ITC Souvenir tm Version 2		5771-ACC	960									G520-0004	CDPF	1SE
MANYFONT Text Processing Type Faces	DCF	5796-PPE	1450									12.G320-6634	DCF	1SH
Membership Data Base		5796-ZJE	7700									.GB30-2401	System/36	1SX
Membership Data Base - Trade Assn		5796-ZHZ	7700									.BG30-2352	System/36	1SX
Membership Dues Assessment		5796-ZJF	3850									.GB30-2401	5796-ZJE	0SX
Membership Fund Raising/Development		5796-ZJG	3300									.GB30-2401	5796-ZJF	1SX
Membership Special Events		5796-ZJJ	3300									.GB30-2401	5796-ZJE	1SX
Membership Subscription Fulfillment		5796-ZJH	3850									.GB30-2401	5796-ZJE	1SX
Monotype Bodoni Cyrillic tm		5771-ACR	3000									G520-0004	CDPF	1SE
Monotype Garamond(R) Language Extensions		5771-ACH	3000									G520-0004	CDPF	1SE
Monotype Levenim tm and Helvetica tm		5771-ACK	1500									G520-0004	CDPF	1SE
Monotype Old Eng Text & New Berolina tm		5771-ACY	3000									G520-0004	CDPF	1SE
Monotype Penim,Alachsoni,Times N Roman		5771-ACJ	3000									G520-0004	CDPF	1SE
Monotype Rockwell(R) Language Extensions		5771-ACG	3000									G520-0004	CDPF	1SE
Monotype Times New Roman Cyrillic tm		5771-ACQ	3000									G520-0004	CDPF	1SE
Monotype Times New Roman Language Extens		5771-ACX	3000									G520-0004	CDPF	1SE
Oron tm and Unvers (R)		5771-ACL	1500									G520-0004	CDPF	1SE
Personal Decision Series - Mailing Label		6410-942	75										Data Edition	0SX
Special Events - Trade Assn		5796-ZJD	3300									.GB30-2352	5796-ZHZ	1SX
Subscription Fulfillment Trade Assn		5796-ZJC	3850									.BG30-2352	5796-ZHZ	1SX
Travel Agency Management and Accounting		5796-ZEY	11000									.GB30-2305	Sys/23 Datamaster	1SH
Typewriter and Pi Version 2		5771-ADH	1100									G520-0004	CDPF	1SE
Typewriter and Pi Upgrade from Ver1 to 2		5771-ADH/01	310										4518	B1SE
Unvers Condensed tm		5771-ACA	640									G520-0004	CDPF	1SE
Unvers Cyrillic tm		5771-ACP	3000									G520-0004	CDPF	1SE
-3279 Executive Presentation System		5798-DEB	4550									.GB21-2725	VM,T50 + GDDM	1SH
3680 Restaurant System		5668-914	1100									.GH20-6210	VSE,OS/VS+PSS	1SA
4250 ITC Avant Garde Gothic tm	Typefont	5771-AAA	640									G520-0004	CDPF (5668-997)	1IE

## **MVS Data Base**

**Significant new activity in this otherwise stable cluster. The big news is the trio of: DB2 with Data Extract and Query Management Facility (in the Query cluster). Now the large data base user has access to relational and hierarchical architectures, thus extending the scope of application development capability. See the DB2 article in the Software Fair section.**

**Other Clusters that will be of interest are Decision Support and Query on page 4-26 and Storage Subsystems 4-107. The IBM Software Catalog contains an entire volume (form number G320-6532) of data systems products. You can order a single copy on the Order card or subscribe to all future editions by adding it to your System Library Subscription.**

Program Title	Short Name	Number	OTC	ILC	MLC	DSO	DSI	DSH	MLP	MML	Mo	MoreInfo	Environment	TPLS
ADF - Training Feature		5798-DDW/01	700									.GB21-2712	6020-6023	15X
+Answer/DB (R) for PC Products		5798-DMG	35000									.GH20-9244	CICS/OS or IBM/DC	15H
+Answer/DB (R) for PC Products		5798-DMG/01	20000									.GH20-9244	CICS/VSE	15H
-APL Data Link to IMS for TSO		5796-PKW	16060		627							.G320-6065	TSO with VSAPL	15X
-APL Data Link to IMS for TSO		5796-PKZ	16060		627							.G320-6065	TSO with VSAPL	15X
Application Development Facility	IMS/ADF	5796-PHX	21290		831							.	Replaced by 5668-937	15X
-Application Development Facility Course	IMS/ADF	5798-DDW	1650		125						12.	.GB21-2712	5668-012+5746-XX6	15H
Application Development Facility II V1	IMSADF	5668-937		3950	1315		2960	987	214	342		.GH20-5597	Superceded by V2	15K
Batch Terminal Simulator	BTS	5668-948	9662	1030	394	7245	773	295	28	46		.GH20-5522	IMS/V5 & TSO	15K
Chained File DL/I Bridge		5748-XX3	14740		576							.GH12-5116	DDS/V5,OS/V5	15J
Cross System Product-Data Base 2 Interfa		5796-TBZ	6000									.GH20-9241	CSP+DB2	15H
Data Base Design Aid Version 2	DBDA	5740-XY8	8620		431							.GH20-1626	OS/V5	11C
Data Base Edit	DBEDIT	5798-DLQ	7700		350							.G320-9195	MVS+DB2	15H
Data Base Extracting and Restructuring	EXPRESS	5796-PLH	16780		655							.G320-6160	IMS/V5 PL/I	15X
Data Base Migration Aid Utility		5798-DTQ	4000									.SH20-9032	DB2	15H
Data Base Migration Aid Utility		5798-DT0	4000									.SH20-9032	DB2	15H
Data Dictionary - DB/DC		5740-XXF			1110			832	115	184		.GH20-9104	IMS/V5,CICS/OS/V5	25K
Data Dictionary DB2 Interface		5798-DRP	4000									.G320-9241	DB2	15S
Data Dictionary Job Stream Processor		5798-DQN	7150		325							.G320-0335	MVS	15H
-Data Dictionary Language Preprocessor		5798-DEQ	660		60						12.	.GB21-2758	OS/V5	15H
Data Dictionary Report and File Generatr	RFG	5740-XXF/01	15000		535	11250		401	11	17			6576	15K
Data Dictionary Utilities Enhanced		5798-DEK/01	960									.GB21-2746	4601	15X
Data Extract	DXT	5668-973		3840	640		2880	480	37	59		.GC26-4070	MVS,MVS/XA+DFP	21K
DB Prototype II		5796-PJK	4870		238							.G320-5754	IMS/V5 V1R2	15E
DL/I to IMS Data Dictionary Migration		5798-DLN	2200									.G320-9196	VSE and IMS	15H
Generalized Information System - VS	GIS/V5	5740-XX7			1340			1005	92	147		.GH20-9035	OS/V5	25K
GIS/V5 Advanced Query Feature		5740-XX7/01			419			314	28	45		.GH20-9035	6012	25K
GIS/V5 Modify Feature		5740-XX7/03			207			155	14	22		.GH20-9035	6018	25K
GIS/V5 Update & Create Feature		5740-XX7/02			885			663	58	93		.GH20-9035	6015	25K
-HDAM Randomizer Generator Extensions		5798-CXN	1140		104						12.	.GB21-2347	5798-CQG OS/V5	11H
-HDAM Sequential Random Generator		5798-CQG	2320									.GB21-2126	OS/V52,MVS/XA	01H
+IBM DATABASE 2 Performance Monitor	DB2PM	5665-354	29000		975							.SH20-6857	DB2	15M
IBM Database 2 Performance ReportingTool	DB2PRT	5798-DPY	5500		250							.G320-9202	DB2	15H
IBM DATABASE 2 Release 2	DB2	5740-XYR		16050	2675		12036	2006	374	598		.GC26-4073	MVS,XA+DFP+ISPF	25K
IMS Application Development Facil II V2	IMSADF	5665-368	56890		2750	41160		200	320			.GH20-6591	IMS	25K
-IMS Application Productivity Package	APP	5785-CZG	3410									.GB21-3027	MVS/TSO,VM/CMS	15X
IMS Data Base Recovery Control Feature	IMS/V5	5665-332/03			1100			825	65	104			5009,6509,5198	25K
IMS Data Base Surveyor Utility Feature	IMS/V5	5665-332/04			120			90	13	21			6011,6511,5186	25K
IMS Data Communication Feature	IMS/V5	5665-332/05			5000			3750	575	920			6010,6510,5188	25K
IMS Log Tape Management System		5796-AHT			200						12.	.G320-8141	OS/V52, IMS/V5IMS	15H
IMS/DBT DEDB Pointer Checker		5668-856/05	2845									.	.4742	.25E
IMS/DBT DEDB Tuning Aid		5668-856/06	836									.	.4743	.25E
IMS/DBT DEDB Unload/Reload		5668-856/07	2445									.	.4744	.25E
IMS/DBT Full Function Space Mgt Utility	SMU	5668-856/01	5555									.	.4738	.25E
IMS/DBT High Speed Sequential Retrieval	FSU	5668-856/02	8645									.	.6739	.25E
IMS/DBT PSB Mapper	IMSMAP	5668-856/03	957									.	.4740	.25E
IMS/DBT VSAM Zapper	VZAP	5668-856/04	709									.	.4741	.25E
IMS/V5 Data Base Product		5740-XX2/01			1800			1350	192	307		.GH20-9069	4538	05K
IMS/V5 Data Base Recovery Control Feat	DBRC	5740-XX2/04			558			418	38	61		.GH35-0010	6425,6560	15K
IMS/V5 Data Base Surveyor Utility Feat		5740-XX2/03			120			90	13	21		.GH20-9069	6199,6569	05K



<u>Program Title</u>	<u>Short Name</u>	<u>Number</u>	<u>OTC</u>	<u>ILC</u>	<u>MLC</u>	<u>DSO</u>	<u>DSI</u>	<u>DSH</u>	<u>HLP</u>	<u>HML</u>	<u>Mo</u>	<u>MoreInfo</u>	<u>Environment</u>	<u>TPLS</u>
IMS/VS Data Base System 1.3	IMS/VS/DB	5740-XX2			2593			1944	240	384			GH20-1260 MVS,VS1	0SK
IMS/VS Data Communications Feature	IMS/VS/DC	5740-XX2/02			2250			1687	192	307			GH20-1260 6172,6566	0SK
-IMS/VS Data Compression Facility		5798-DCJ	1120										.GB21-2612 OS/VS,MVS/XA	15H
IMS/VS Fast Reorganization Reload II	FRR II	5798-DPR	3960										.G320-9201 IMS/VS	15X
IMS/VS Logging Feature		5740-XX2/05			235			176	23	37			6423,6557	03K
-IMS/VS Master Terminal Operator Training		5798-DEG	990										.GB21-2736 IIS,IIPS	1EH
IMS/VS Queue Loader		5785-GAJ	5720	260									.GB21-3125 IMS/VS-DB/DC	15H
IMS/VS System Utilities/Data Base Tools	DBT	5668-856	nc										.GH20-6579 IMS/VS	.N2SE
-IMS/VS Test Utilities		5796-PDA	1210	110							12		.G320-1540 OS/VS1/VS2,IMS/VS	15H
+Information Management System Ver 2.1	IMS/VS	5665-332		3900				2925	825	1320			GC26-4180 MVS or XA	25K
Information Management System Version 2	IMS/360	5734-XX6	7752	646									GH20-0765 OS/MFT/MVT/VS1/VS2	25C
-Integrated Processing of Data & Text V1	IPDT	5785-DCT	18150	825							24		.GB21-2755 OS/VS,IMS,DCF	15H
Integrated Processing of Data & Text V2	IPDT	5785-DEH		2700	667						24		.G320-0354 IMS/VS	25X
-ISAM to IMS/DB Bridge		5798-DBG	1815	165							12		.GB21-2547 OS/VS	15H
Query Management Facility Release 2	QMF	5668-972		6420	1070			4812	802	58	93		GC26-4071 VM,MVS+GDDM+DB2,SQL	25K
+Query.DL/I for CICS/MVS		5785-ECZ	20000										.G320-0839 IMS DB	15H
+Query.DL/I for IMS/VS		5785-ECY	20000										.G320-0839 IMS DB/DC	15H
Storage & Information Retrieval System	STAIRS/VS	5740-XR1	28160	1280									.GH12-5114 OS/VS,CICS/VS,IMS/VS	25B

Program Title	Short Name	Number	OTC	ILC	MLC	DSO	DSI	DSM	HLP	MHL	Mo	MoreInfo	Environment	TPLS
APL Data Interface II for TSO	APL/DI II	5796-PNJ	8915		338							.G320-6415	TSO	1SX
-APL Data Link to IMS for TSO		5796-PKH	16060		627							.G320-6065	TSO with VSAPL	1SX
-APL Data Link to IMS for TSO		5796-PKZ	16060		627							.G320-6065	TSO with VSAPL	1SX
APL VS Time Shared Input/Output Interfac	VS TSIO	5798-DOE	3300									.G320-0365	MVS,XA+APL	1SX
Application Program Performance Extender		5798-DHL	2750									.GB21-3123	MVS	1SH
Assembler Prompter		5734-CF2	1200									GC33-4038	TSO	1SC
BASIC/MVS Release 2		5665-948		4170	695		3126	521	42	67		GC26-4023	MVS	1SK
Batch Transfer Program	BTP	5744-CO2	nc									GC33-5901	MVS	NOSC
-BDL Optimizer		5798-DKQ	1285									.GB21-3012	MVS	1SX
Cache Analysis Aid Version 4 - 3880	RPQ P88026	5799-WXA	nc									MVS		NOSE
Cache RMF Reporter		5798-DQD	1210									.G320-0362	DF/DS,DFP+RMF+PL/I	1SX
Capacity Planning Extended	CPX	5798-CYM	4410		189							.GB21-2391	OS/VS,5798-CPR	11X
Chained Jobs Scheduling		5785-GAK	11320		858							.GB21-2869	OS/VS	1SH
+Classified Data Erasure Program	C.D.E.P.	5798-DXN	5000									GC26-4269	VM,MVS	1SS
-COBOL - 3270 Full Screen Support		5796-ATK	1570		143							12.G320-6067	TSO	1SH
COBOL Prompter		5734-CP1			38			28	7	11		GC28-6454	TSO	1SK
COBOL VS II Compiler and Library 1.1		5668-958		6420	1070		4812	802	53	85		GC26-4042	MVS,XA,VM	1SK
COBOL VS II Library Only		5668-940		2550	425		1908	318	53	85		GC26-4042	MVS,XA,VM	1SK
Cryptographic Programmed Facility		5740-XV5	12200		436	9150		327	33	53		GC28-0942	MVS	1SK
Cryptographic Unit Support		5740-XV6	11000		390	8250		292	33	53		GC28-1015	OS/VS,MVS,XA	1SK
CSP Development - CICS/OS/VS TSO		5668-944/01	4855		227	4370		172	34	54		.4519,4672,6519,6566		2SK
CSP Execution - CICS/OS/VS TSO		5668-945/01	2490		117	2245		86	22	35		.4532,4676,6532,6568		2SK
Data Facility Data Set Services 2.2	DFDSS	5665-327			215			161	38	61		GC26-4123	Data Facility Prodct	1SK
+Data Facility Hierarchical Storage Mgr	DFHSM2.1	5665-329			800			600	141	226		SC33-0223	MVS,XA	1SK
Data Facility Product	DFP	5665-295		1590	600		1191	450	186	298		GC26-4050	MVS	2SK
-Data Facility Product Version 1.1	DFP	5665-284		1590	600		1191	450	93	149		GC26-4007	Superceded by Ver 2	2SK
+Data Facility Product Version 2.2	DFP	5665-XA2			1025			769	349	547		GC26-4142	XA	2SK
Data Facility Sort 1.8	DFSORT	5740-SM1			247			185	19	30		GC33-4033	V51, MVS,XA	1SK
+Data Interfile Transfer, Testing 3 Oprns	DITTO	5665-370			270			230				.SH19-6112	MVS,XA	1SM
Data Set & Free Space Manager		5796-PPN	1385		105							.G320-6654	MVS	1SX
-Data set Migration and Planning Aid		5798-DCK	1745		159							12.GB21-2614	OS/VS,MVS,XA	1SH
Device Support Facility for MVS/XA 1.8	ICKDSF	5655-257	nc									GC26-3946	3340,3344,3350,3380	NOSS
Direct Access Storage Device Migration		5668-002	1450							19	30	GC26-3972	OS/VS+3375/3380	OIX
Direct Access Storage Dump Restore	DASDR	5740-UT1	2800		167							GH20-9116	OS/V51,OS/V52,OS/MFT	1SC
Diskette Copy Program		5744-BL1	nc									GC24-5109	OS/V52	NOSC
Distributed Office Support System Ver 3	DISOSS	5665-290		4570	1485		34251110	223	357			GC30-3085	CICS/VS+MVS,XA	2SK
DITTO		5798-ARD	858									.GB21-0857	OS,MVS,XA	11H
Environmental Recording Editing Printing	EREP	5658-260	nc									GC28-1378	V51,MVS,XA	NOSS
File Cabinet Option Wide-Screen Feature		5798-CPY/01			250							24.GB21-2103	6013,6014	1SH
File Inquiry Processor		5799-TGJ	18500											OSC
File Transfer Program Version 1	FTP	5748-XE6	1415		55	1060		40	5	8		.GH12-5129	Replaced by Version2	1SK
FORTTRAN Prompter		5734-CP3	123		32							GC28-6884	5734-F02+TSO	1SC
General Performance Analysis Reporting	GPAP	5798-CPR	1710		83							.GB21-2091	OS/V51, MVS, SVS	11E
Generalized Trace Facility Analysis	GTFPARS	5798-COQ	2310		94							.GB21-2142	OS/VS, 5798-CPR	11E
Hierarchical Storage Manager	HSM	5740-XRB			579			434	129	206		GH35-0007	Successeded by DFHSM	1SK
HSM Maintenance / Recovery Utilities		5796-BDY	2000									.G320-9162	MVS+5740-XRB	1SH
IMS Monitor Summary & System Analysis II	IMSASAP	5798-CHJ	3675		165							.GB21-1792	IMS-VS+GPAP	11E
IMS Performance Analysis & Reporting	IMSPARS	5798-CQP	4155		203							.GB21-2139	IMS/VS V1,5798-CPR	11E
Info/MVS Direct Load Feature		5665-955/01			380							.4582		OSC
Information / Access Version 1		5665-950		3300	362		2475	270	28	45		GC34-2096	V2 of INFP/SYS & MGT	1SK

Program Title	Short Name	Number	OTC	ILC	MLC	DSO	DSI	DSM	MLP	HML	Mo	MoreInfo	Environment	TPLS
Information / Library	INFO/LIB	5665-277		536	205		401	154	15	24		.GH12-5136	MVS,XA+NCCF	15K
Information / Management Version 2	INFO/MGMT	5665-953		2950	363		2200	270	32	51		.GC34-2098	5665-952	15K
Information / MVS	INFO/MVS	5665-955			305					9	14	.	5665-952	05C
Information / System Version 2	INFO/SYS	5665-952		2705	311		2033	233	56	90		.GC34-2096	MVS	15K
Information System Model & Architecture	ISMOD	5785-FBA	14300		650							.G320-9235	MVS,VM	15H
Information/Access Version 2		5665-267		3550	747		2665	563	20	32		.GC34-2096	MVS+V2 of Info/Sys	15X
+Information/System Version 3		5665-384	8000		450	6000		337	49	78		.GC34-4045	MVS	15K
+Integrated Catalog Forward Recovery Util	ICFRU	5798-DXQ	4500									.G320-9501	MVS,XA	15H
-Inter-Region Access Method		5796-AYH			300							12.G320-6335	MVS with VSAPL	15H
Interactive System Productivity Facil2.2	ISPF	5665-319		690	218		517	163	30	48		.GC34-2136	MVS	15K
ISPF Program Development Facility 2.2	ISPF/PDF	5665-317		4025	575		3015	431	14	22		.GC34-2136	ISPF	15K
JCL Conversion Aid from VSE to MVS or XA		5798-DPH		11000	500							.G320-0440	VSE and MVS	15H
+JES3/328x Print Facility Version 2		5785-BAC		5500	250							.G320-9500	MVS	15H
-JES3 Networking PRPQ	RPQ-P09022	5799-AZT			2055			1545	326	522		.GH20-2204	NJE	25K
Library/MVS Release 2.1 (and Update C)		5665-294		399	133		297	99				.GC28-1125	Information/Library	15C
Link Pack Area Optimizer		5798-DKP	1650									.GB21-3010	MVS	15H
Multi-System Configuration Mgr for 3814		5665-342			750			675	70	112		.GC23-0172	MVS	15K
MVS CBIPO Drivers		5665-343			178							.GC23-0127	5751-CS1,2	05C
MVS CBIPO Model Inst Related Inst Materl	CBIPO	5751-CS2	varies									.GC23-0127	5751-CS1	V 5
MVS Custom-Built Installation Process Of	CBIPO	5751-CS1	varies									.GC23-0127	MVS	V 5a
MVS Introductory Base Offering	CBIPO	5751-CS3	varies									.GC23-0127	5751-CS1	V 5
MVS Link Pack Area Optimizer Extensions		5798-DRD	1705									.G320-9206	MVS	15H
MVS Operator Problem Determination		5798-DEY	836									.GB21-2760	IIS,IIPS	1EH
MVS Productivity System	MVSPS	5798-MVS	nc										Information Network	N05C
MVS Resource Utilization Tool		5798-DRF	2035									.G320-9229	MVS,XA	15H
MVS Systems Extensions	MVS/SE	5740-XE1			1960			1470	114	182		.GC28-0872	MVS	25K
MVS/Bulk Data Transfer	MVS/BDT	5665-302		5340	1335		4004	1001	454	726		.GC28-1313	MVS+VTAM	25K
MVS/SP - JES2 1.1		5740-XY5			2150			1612	117	187		.GC28-1395	5752-VS2	25K
MVS/SP - JES3 1.1		5740-XYN			2150			1612	117	187		.GC28-1395	5752-VS2	25K
MVS/SP - JES3 1.2 or 1.3		5740-XYN01			230			172	400	640		.GC28-1395	6146,6524	25K
MVS/SP - JES3 Version 2.1.7	MVS/XA	5665-291		14430	4810		10821	36071	3352136			.GC28-1118	DFP 5665-XA2	25K
MVS/SP JES2 Version 2.1.7	MVS/XA	5740-XC6		12840	4280		9360	3210	6731077			.GC28-1118	With 5665-XA2	25K
MVS/SP System IPO		5750-AAM	varies									.GC20-1870	Replaced by CBIPO	V X
MVS/SP/JES2 1.3.5 and 1.3.6	JES2	5740-XY5/02			2170			1627	240	384		.GC28-1025	4525,6143,9525	25K
MVS/SP/JES3 1.3.5	JES3	5740-XYN/02			2380			1784	517	827		.GC28-1025	4524,9524	05K
-MVT Support for 3031/3032/3033	RPQ-MJ2480	5799-AHX	12880									.GC28-0951	05/MVT	15C
Operating System / Multiple Virtual Stor	MVS 3.8	5752-VS2	nc									.GC28-1012	S/370,4300,303x,308x	N05J
Operations Planning & Control	OPC	5740-XT9	38390		1745	26950		1225				.GH19-6120	05/VS	21L
Operator Communications Control Facility	OCCF	5665-288		1050	350		786	262	8	13		.GC24-5225	MVS,NCCF,ACF/VTAM	15K
OS/VS JCL, Learning to Code		5798-DAJ	1250									.GB21-2508	IIS,IIPS	1EH
-Paging System - Extended Swap		5796-PNW	1910		145							.G320-6403	MVS/SE MVS/SP	15H
Personal Decision Series - Attachmt/MVS		5665-336	22000		1000							.GH30-9028	VTAM+NCP+ISPF+PC,XT	15E
-Print Image Library Documentation Aid		5798-DNE	660									.GB21-3097	05/VS	15X
RACF Codes Update System		5796-PLK	1085		99							12.G320-6093	MVS and RACF	15H
RACF Productivity Aid		5798-CYF	2745		208							.GB21-2370	MVS,MVS/XA	15H
Resource Access Control Facility 1.7	RACF	5740-XXH			861			630	43	69		.GC28-0722	MVS	25K
Resource Measurement Facility Ver 3.4.1	RMF	5665-274		2250	750		1686	562	67	107		.GC28-1398	MVS/XA	25K
Resource Measurement Facility Version 2	RMF	5740-XY4			406			304	17	27		.GC28-0921	MVS	15K
Screen Definition Facility	SDF	5740-XYF	7675		349	5760		262	50	80		.GH19-6087	05/VS,MVS/XA or CICS	15K
Secondary Operator Facility		5798-CRE	1005									.GB21-2179	05/VS2,MVS/XA	15H

Program Title	Short Name	Number	OTC	ILC	MLC	DSO	DSI	DSH	MLP	MML	Mo	MoreInfo	Environment	TPLS
Service Level Reporter Version 2	SLR	5668-966		2130	815		1600	611	99	159		.GH19-6213	OS/VS,MVS/XA	1IK
-SMF Graphical Analysis Program		5796-AFP			200						12	.G320-8127	OS/VS, MFT,MVT	1IH
SMF Job Data Compression Aid	JDCA	5796-PHN	4290		187							.G320-5714	OS, OS/VS, MVS/XA	1IX
-SMF Problem Program Activity Report		5798-CPP	968		88						12	.GB21-2089	MVS	1IH
Spool Display and Search Facility	SDFS	5798-DGN	1650									.GB21-2865	MVS,MVS/XA	15H
System Modification Program Extended	SMP/E	5668-949		1920	380		1440	285	97	155		.GC28-1106	OS/VS,MVS/XA	15K
System Productivity Facility	SPF	5668-009			241			180	48	77		.GC34-2039	Superseded by ISPF	15C
System Test/4381XA		5751-LM2	nc										XA	N05C
Tape Library Control System		5785-EAM	8580		390							.G320-6652	MVS	15H
TSO / JES2 Batch Display Facility II		5798-DMB	1650									.GB21-3037	MVS	15X
TSO Command Processor		5798-AYF	1185									.GB21-1122	OS/VS2,MVS/XA	1IH
-TSO Data-set Print		5798-CPF	5040									.GB21-2069	Replaced by 5785-BAC	15H
TSO Data-set Print VTAM, XA Extensions		5798-CPF/01	957		76						12	.GB21-2069	4607,4598	15H
TSO Host Server for PC XT/370 (VM/PC)	TSOSERV	5798-DTL	2420									.G520-3917	MVS+VTAM	15H
TSO Introduction		5798-CKT	3375		256							.GB21-1924	IIS,IIPS	1EH
TSO Programming Control Facility II	PCF II	5798-CLW	1350		52							.GB21-1987	MVS	15E
TSO/E - MVS/XA Feature		5665-285/01		1500	555		1125	416	108	173		.GC28-1061	4528,6503	25K
TSO/Extensions	TSO/E	5665-285		1500	500		1125	375	87	139		.GC28-1061	MVS,XA+DFP	25K
UCC TWO VSE to MVS Migration Aid	UCC2	5796-PHN	49500									.G320-9190	VSE+MVS,XA	15H
Using TSO Effectively II		5798-DEF	1090									.GB21-2818	IIS,IIPS	1EX
Utilities - TSO		5734-UTI	5200		154							.GH20-9057	TSO	15C
Virtual Storage Measurement Reporter	RPQ-P88023	5799-MHL	nc										STOR/MVS,CICS,IMS	N05E
Virtual Storage Monitor		5798-DEL	792									.GB21-2721	MVS,5740-XY4	15H
Virtual Storage Personal Computing	VSPC	5740-XR6			1520			1020	220	352		.GH20-9070	MVS	15K
Virtual Storage Personal Computing - V2	VSPC	5665-283			2050			1537	214	342		.GH20-9192	MVS	15K
-Virtual System Time Shared I/O for VSAPL	VST5IO	5798-DEN		675	241						12	.GB21-2741	TSO,VSAPL	15X
VM/XA Migration Aid Remote 3270 Option		5664-183		2400	800		1800	600	42	67		.GC23-0126	VM/XA+VM Pass-thru	15K
VM/XA Systems Facility Rel 2		5664-169		11220	3740		84152805	623	997			.GC19-6213	4381,308x,3090	25K
-VSAM Control Area Freespace Map Utility		5796-AYX	1185									.G320-6346	OS/VS	15H
VSAM File Definition Aid		5798-PPG	2200									.G320-9170	MVS,VSE	15H
VSPC Migration Aids to TSO/E	FTI	5798-DPE	2145									.G320-9166	5665-283	15X
VTAM Performance & Analysis Reporting II	VTAMPARS 2	5798-DFE	5570	504	198							.GB21-2786	Successeded by NPM	15E
3270-PC Control Program 1.2.2		1837-434	329									.G520-1107	DD5 2 or 3	05M
3270-PC File Transfer Program		5665-311	600									.G520-3917	1837-434	15E
3380 / 3375 Support PRPQ		5799-BFF		3525	1175		2640	881	55	88		.GC26-4001	MVS+5740-AM6	15K

## Office Automation

One of the fastest growing Clusters. It has outgrown its origins in word processing so that the established *trend* is toward systems with which the *professional, the knowledge worker* acquires, shares and dispenses information. A component of this major trend is the offloading of additional administrative and technical functions to the professional's support staff. Another component of this trend treats not his *support*, but the very process of decision itself... Today it is termed 'Decision Support'.

Fundamental products for the S/370 are DISOSS, PROFS, Script, CDPF and GDDM (for graphics). If the PC is to be the principal workstation refer to the Personal Decision Series in the rose pages. DisplayWrite for the PC is an excellent choice

where personnel have familiarity with the Displaywriter. It could be viewed as a substitute or complement to the Words Edition of the Personal Decision Series. For building and giving presentations Storyboard is an excellent choice and compatible to the Personal Decision Series. PC Organizer should be examined for the PC office that has enough non-DP professionals to justify a part or full time technical support PC specialist.

Other computers have text and office systems that are optimized to their specific architectures. Good examples are Audio Distribution and Videotex on the Series/1. The reader also should scan the contents of the Consulting Professionals, Graphics and Decision Support Clusters.

Program Title	Short Name	Number	QTC	ILC	MLC	DSO	DSI	DSM	MLP	MML	Mo	MoreInfo	Environment	TPLS
-Administrative Control System		5798-NWT	3465		315							12.GB30-1318	System/34	15H
-Administrative Support Implementation		5608-AX1	220										Displaywriter	01C
Advanced Text Management System III	ATMS III	5740-XYL	25410		1155							.GH20-2404	CICS/OS/VS	25B
Advanced Text Management System III	ATMS III	5746-XXU	12470		567							.GH20-2404	CICS/DOS/VS	25B
-APL Econometric Planning Language	EPLAN	5796-PDM	2705		246							12.G320-5535	APLSV	11H
Application Help Aid		5798-DRC	550									.G320-9216	TMS/36	15H
-Asynchronous Communications		5608-SR1	260									G544-0851	Displaywriter	05E
ATMS III Formatter		5740-XYL/01	11990		545							.GH20-2404	6137,6237	25B
ATMS III Formatter		5746-XXU/01	11990		545							.GH20-2404	6104,6168,6105	25B
-Binary Synchronous Communications		5608-SR2	260									G544-0851	Displaywriter	05E
Business Professional System	BPS	5750-AAL	varies									G520-0007	VM/SP	V
-Calendar Management System		5798-NZB	3815		347							12.GB30-1401	System/34	15H
Characters for Mathematics and Science		5771-ACH	960									G520-0004	CDPF	15E
-Color Text Presentation Facility		5798-DMZ	1210									.GB21-3086	3279+GDDM+5748-AP1	15X
Communications Chain Facility - Batch		5798-RJK	275									.GB30-1801	5280 Data System	15X
Composed Document Printing Facility 4250	CDPF	5668-997	4800		342				49	78		GC33-6133	SCRIPT and/or GDDM	15K
DCF Foreground - CMS TSO ATMS III	SCRIPT/VS	5748-XX9/01		180	60							.GH20-9158	6043,2107	15E
DisplayComm Binary Synchronous Communica		6024-187	409									G520-3917	PC,XT,PPC	05Z
*DisplayWrite Medical Support		6024-197	179									G520-1107	DisplayWrite 2 V1.1	05Z
DisplayWrite 1		6024-188	99									G520-3917	PC,XT,PCjr,3270-PC	05Z
+DisplayWrite 3 1.1		6489-766	450									PCC+384k		05G
DisplayWrite 3 Version 1.1		6280-845	450									PC,XT,AT,3270-PC		05Z
DisplayWrite/36		5727-WP1	2000		133	1760						G580-0454	System/36	15A
DisplayWrite/36 Danish Dictionary		5727-WP2/05	120			105							4763,6064	15A
DisplayWrite/36 English Dictionaries		5727-WP2	120			105		105				G580-0454	DisplayWrite/36	15A
DisplayWrite/36 French I Dictionary		5727-WP2/01	120			105						G580-0454	4763,6064	15A
DisplayWrite/36 French II (Canada) Dictn		5727-WP2/02	120			105						G580-0454	4763,6064	15A
DisplayWrite/36 German Dictionary		5727-WP2/06	120			105							4763,6064	15A
DisplayWrite/36 Italian Dictionary		5727-WP2/04	120			105							4763,6064	15A
DisplayWrite/36 Spanish Dictionary		5727-WP2/03	120			105							4763,6064	15A
+DisplayWrite/370		5664-370	14000		665	10500		500	42	60			.VM	25K
+DisplayWrite/370		5665-382	14000		665	10500		500	42	60			.CICS/MVS	25K
+DisplayWrite/370		5666-358	6000		285	4500		215	42	60			.CICS/VSE	25K
-Displaywriter Bisynch Support to PROFS		5798-DRK	4250	472	172							.GB21-3016	VM/SP + RSCS	15X
Displaywriter/PC Attach Convenience Kit		6403-728	495									G544-2280	Textpack4+6024107	05E
Distributed Office Support / 370 Ver 2	DISOSS/VSE	5666-264	29370		1335	22110		1005	214	342		.GH12-5139	DOS/VE & CICS/VS	25K
Distributed Office Support / 370 Ver 2	DISOSS/370	5668-982	29150		1325	21970		999	255	408		.GH12-5139	OS/VS,IMS/VS,CICS/VS	25K
Distributed Office Support Facility Rel6	DOSF	5761-XR1	12300		805	10455		683	115	184		GC27-0546	DPXC	15K
Distributed Office Support System Rel 3	DISOSS	5668-955	4320		235	3670		200	43	68		.GH12-5139	DOSF/DISOSS Ver 2/3	25K
Distributed Office Support System Ver 3	DISOSS	5665-290		4570	1485		34251110	223	357			GC30-3085	CICS/VS+MVS,XA	25K
Distributed Office Support System Ver 3	DISOSS	5666-270		1710	570		1275	425	176	282		GC30-3085	CICS/VS+VSE	25K
Document Composition Facility DCF	Script	5748-XX9		972	324								VM,VSE,MVS	15E
Document Composition Facility XT/370	Script	5748-XX9/02	864		19								3003,3008	05C
Document Composition Training	DCF	5796-PNE	1320									.G320-6331	IIS,IIPS	1EH
Document Interchange - Host to Displaywr	HDDI	5799-BKE		1165	265							GC09-1037	DCF,PROFS+5608-SR9	25E
Document Library Facility	DLF	5748-XXE	480	160								.GH20-9163	DOS/VSE,MVS,VM	15E
Document Library Facility Dialog		5798-DQA	1980									.G320-0360	MVS+DLF+DCF+ISPF	15X
+Document Management/VSE		5666-359	2850		158	2565		142	28	45		GC33-6251	VSE	25K
Document Retrieval Assistant		6024-306	149									.G520-1107	PC,PCjr,XT,AT,PPC	05Z
DPCC Automated Administration Activities		5798-DHR	1030									.GB21-2889	DPXC	15X

Program Title	Short Name	Number	OTC	ILC	MLC	DSO	DSI	DSM	HLP	MHL	Mc	MoreInfo	Environment	TLPS
DPCX DISOSS Extensions		5785-ECF	1690									.G320-9209	DOSF	1SH
DPCX DOSF Dialog Manager		5785-ECG	907									.GB21-3080	DPCX+DOSF	1SX
DPX Automated Administrative Activities		5798-DHC	1070									.GB21-3077	DPX	1SX
DPX Distb Document Formatting Facility	DDFF	5785-RAA	1980									.G320-0355	8100	1SX
DPX Integrated Processing of Data & Text	IPDT	5785-DEE	4400									.G320-0356	8100	1SX
-DM/36 Upgrade from TMS/36		5727-WP1/01	550			484							4769,9682	1SA
EDX Department Office Control System		5798-DQG	1980									.G320-0367	Series/1	1SH
EDX Telephone Message Management System	TMMS	5799-TFY	19971									GH36-0250	Series/1	1SH
EDX TMMS/ROLM CBX 9000 Interface		5799-THK	6420										TMMS	1SH
EDX Videotex System SVS/1	RPQ-P82696	5799-TFN	13750									.G520-3992	Series/1	1SX
-Electronic Document Distribution	EDD	5608-SR8	565									G544-2139	Displaywriter	0SE
+Expert System Consultation Environment		5798-DXA	25000		1250							.G325-0040	MVS	2SH
+Expert System Development Environment		5798-DXB	35000		1750							.G325-0040	MVS Consultation env	2SH
General Markup Language Product Aid	GML	5798-DKD	3045	337	131							.GB21-2978	5748-XX9	1SX
Graphics and Color / Script		5798-DMM	3080									.GB21-3074	DCF (Script)	1SX
Hadassah tm and Monotype Century tm		5771-ACN	1500									.G520-0004	CDPF	1SE
Helvetica Condensed and Expanded tm		5771-ACB	1120									.G520-0004	CDPF	1SE
Helvetica tm - Language Extensions		5771-ACF	4500									.G520-0004	CDPF	1SE
-Host Document View Facility		5796-BCL	5170	635	207							.G320-6640	MVS,DISOSS,IMS,CICS	1SX
Host Print Facility	DISOSS	5740-XY9/03	3870		176							GH12-5124	6113,6234	2SX
Host to Displaywriter Document Interchg	RPQ P09058	5799-BXF	3315									GC09-1057	5796-PWP+5608-SR9	2SD
Host to Displaywriter Document Interchg	RPQ P09059	5799-BXG	6095									GC09-1057	5796-PRH+5608-SR9	2SD
Image Distribution System - Scanmaster	RPQ-P01002	5799-BJA	8800		440							SH18-0058	CICS/DOS/VS	1SX
Image Distribution System - Scanmaster	RPQ-P01001	5799-BJB	8000		428							SH18-0058	CICS/DOS/VS	1SX
Image View Facility		5785-ECX	5940		270							.G320-0331	DISOSS+8815+MVS	1SH
Image View Facility		5785-EDJ	5400									.G320-0802	DISOSS+Scanmaster	2SH
Image View Facility/VM Feature		5785-ECX/01	660		30								6010,6012	2SH
Image View Facility/VM Feature		5785-EDJ/01	600										6008,6009	2SH
-Information Exchange with Displaywriter		5798-RJY	660									.GB30-1857	S/34+Displaywriter	1SX
Integrated Processing of Data & Text V1	IPDT	5785-DCT	18150		825							24.GB21-2755	05/VS,IMS,DCF	1SX
Integrated Processing of Data & Text V1	IPDT	5785-DCX	10250		466							.GB21-2946	CICS/OS/VS	1SE
Integrated Processing of Data & Text V1	IPDT	5785-DDD	6710		305							.GB21-2946	CICS/VSE	1SE
Integrated Processing of Data & Text V2	IPDT	5785-DEH		2700	667							24.G320-0354	IMS/VS	2SX
Integrated Processing of Data & Text V2	IPDT	5785-DEJ		2400	667							24.G320-0354	CICS/OS	2SX
Integrated Processing of Data & Text V2	IPDT	5785-DEK		2000	563							24.G320-0354	CICS/VSE	2SX
Integrated Processing of Data & Text V4	IPDT	5665-347	29700		1760							.G320-0354	CICS/IMS+MVS+GDDM+PL	2SE
Integrated Processing of Data & Text V4	IPDT	5666-325	13200		748							.G320-0354	CICS/VSE+DCF+GDDM+PL	2SE
Integrated Publishing System		5796-BDQ	1100									.G320-9128	Series/1+5796-BDP	1SX
Integrated Publishing System - Host		5796-BDP		3900	1495							24.G320-9128	VM/CMS+5796-BDQ	1SX
Interactive Composition and Editing Ver2	ICEF	5798-DTD	25000		1250							.G320-9798	VM+4250 or 3800 III	2SH
Interactive Display Text Facility		5668-956	3000		97	2550			73			GA33-3115	DOSF,DPX,DPX	1SE
Interactive Network and Message System	INnet	6410-976	329									.G320-0346	PC/IX	0SH
Interactive System Productivity Facil2.2	ISPF	5665-319		690	218			517	163	30	48	.GC34-2136	MVS	1SK
ITC Korinna tm		5771-ACD	1280									.G520-0004	CDPF	1SE
ITC Souvenir tm Upgrade from Ver 1 to 2		5771-ACC/01	320										4522	B1SE
ITC Souvenir tm Version 2		5771-ACC	960									.G520-0004	CDPF	1SE
IX Integrated WORD/MATH		5796-TAT	12000									.G320-0814	IX/370	1SH
IX Integrated WORD/MATH		6316-989	659									.3209-223	PC/IX	0SH
IX INword		6316-970	475									.G320-0347	PC/IX	0SH
IX WORD/MATH		6317-038	800									.G320-9223	XENIX tm	0SH

Program Title	Short Name	Number	OTC	ILC	MLC	DSO	DSI	DSM	MLP	MML	Mo	MoreInfo	Environment	TPLS	
Language Dictionaries	OFFICE/38	5714-DCT	195			172						GC09-1021	5714-WP2	15A	
-Languagepack		5608-SR4	335									G544-0851	Displaywriter	05E	
-Languagepack 2		5608-SR7	450									G544-0851	Displaywriter	05E	
-Letterwriter for Document Composition	DCF	5798-DMT	550									.GB21-3072	5748-XX9	15X	
-Magnetic Card Conversion		5608-SR3	525		240							G544-0851	Displaywriter	05E	
-MANYFONT Text Processing Type Faces	DCF	5796-PPE	1450		132						12.	G320-6634	DCF	15H	
Microsoft (R) WORD		6871-348	395									.GB30-2037	PC,XT,PCjr	05Y	
Monotype Bodoni Cyrillic tm		5771-ACR	3000									G520-0004	CDPF	15E	
Monotype Garamond(R) Language Extensions		5771-ACH	3000									G520-0004	CDPF	15E	
Monotype Levenin tm and Helvetica tm		5771-ACK	1500									G520-0004	CDPF	15E	
Monotype Old Eng Text & New Berolina tm		5771-ACJ	3000									G520-0004	CDPF	15E	
Monotype Peninim,Alachsoni,Times N Roman		5771-ACG	3000									G520-0004	CDPF	15E	
Monotype Rockwell(R) Language Extensions		5771-ACG	3000									G520-0004	CDPF	15E	
Monotype Times New Roman Cyrillic tm		5771-ACQ	3000									G520-0004	CDPF	15E	
Monotype Times New Roman Language Extens		5771-ACX	3000									G520-0004	CDPF	15E	
MultiMate tm		6871-408	495									.GB30-2037	PC,XT,AT,3270-PC	05Y	
Office Management System	OMS/36	5727-051	1950			1715						G580-0454	Upgrade to PS/36	15X	
OFFICE/38 - WORKSHEET/38 tm		5710-RRL	2790									.GB30-2383	System/38	15I	
OFFICE/38 Administrative Mgmt		5714-WP1	1500			1320						GC21-7951	System/38	15E	
OFFICE/38 Applications Made Easy	AME	5714-XE1	4400									.GB30-1952	System/38	15X	
OFFICE/38 Personal Services/38		5714-WP3	6500		400	5720		352				GC09-1071	System/38	15A	
OFFICE/38 Text Management		5714-WP2	1800		67	1584		59				G580-0460	System/38	15A	
Oron tm and Univers (R)		5771-ACL	1500									G520-0004	CDPF	15E	
Overlay Generation Language Release 1	OGL/MVS	5665-308		801	267							G520-5023	MVS+3800,3820	21K	
PCWriter		6024-179	215									G520-1107	PC,XT,PPC	05Z	
Personal Decision Series - Appoint Clnr		6410-946	75									.	Data Edition	05X	
Personal Decision Series - Words Edition		6410-940	165									.	Data Edition	05G	
+Personal Decision Series - Words Edition		6466-985	165									.GH30-9012	3.5" drive	05G	
Personal Editor		6024-051	109									G520-3917	PC,PCjr	05Z	
Personal Manager		5798-DLP	1650									G320-9197	CICS+COBOL	15H	
Personal Manager		5798-DQJ	1650									.G320-9197	CICS+COBOL	15H	
Personal Services / 370		5666-318		1125	375		843	281	99	158		GC30-3292	DISOSS+CICS+VSE	25K	
Personal Services / 370 Rel 2		5665-330		2400	800		1800	600	132	211		GC30-3292	DISOSS+CICS+MVS	25K	
+Personal Services/PC Upgrade to 1.2		6476-053	35										6403826	05M	
-Personal Services/PC 1.04		6403-826	275										Upgrade to 6476053	05Z	
+Personal Services/PC 1.2		6476-054	275										PC,XT,AT,3270-PC+10M	05M	
Personal Services/36		5727-WP3	3000		203	2640						G580-0454	DisplayWrite/36	15A	
+Personal Servs/PC 1.04, Upg from 6317013		6403-827	35										PC,XT,AT,3270PC,PPC	05Z	
Personal Telephone Manager		6429-190	70									G320-9445	PC,XT,AT,3270-PC/AT	05G	
Planning Assistant Solutions		6024-135	99									G520-1107	PC,PCjr,XT,AT,PPC	05Z	
Print Management Facility Release 1.1	PMF	5665-307		882	294						132	211	G544-3088	MVS+VS/APL+GDDM	21K
Print Services Facility 3800 III Rel 1.1 PSF		5665-275		4260	200		3195	150	176	282			G544-3088	MVS	25K
Professional Editor		6024-048	139										G520-3917	PC,PCjr	05Z
Professional Office System	PROFS	5664-176	22000	5000	895	19790	3745	710				.GH20-5601	VM	25B	
Professional Office System PC Support		5664-309/01	6000		300	4500	225						.4766,4769,6569,6572	TOUB	
Professional Office System 2.1, 2.2	PROFS	5664-309	22000		995	16500	745					.GH20-6795	VM	125E	
PROFS Note Maintenance Facility		5798-DRT	1500									.G320-0796	PROFS	25H	
PROFS Personal Computer Connection to VM	PROFS/PC2	6410-984	219									.G320-0652	PROFS+ISPF/PC+DOS2+	05H	
Query/36		5727-QU1	950			64	835					G580-0454	System/36	15A	
Report Management & Distribution System	RMDS	5665-310		5720	858							GC30-3191	MVS+CICS+VS,IMS+VS	15E	



Program Title	Short Name	Number	OTC	ILC	MLC	DSO	DSI	DSM	MLP	MML	Mo	MoreInfo	Environment	TPLS
-Reportpack		5608-SR5	320									G544-2099	Displaywriter	OSE
RPS ADS Additional Languages (per each)		5719-U21/02	1060		70								4000,5000	1SH
RPS ADS Version 2 Upgrade from Version 1		5719-U21/01	2675											1SH
RPS Audio Distribution System	ADS	5719-U20	12700		480							G580-0363	5719-PC5,-PL4	1SE
RPS Audio Distribution System Version 2	ADS	5719-U21	15200	1850	1015							G520-1060	Series/+PL/I	1SH
RPS Letter Writer Version 2	RPQ-P82667	5799-TEY	1200		114						12	GH30-0713	Series/1	1SE
+RPS Office Connect 1.0		5719-XT3	6600									GC09-1116	Series/1	1UM
+SAMMA+ tm		5669-087	1295									SV21-8057	RT AIX	OSZ
SCRIPT Mathematical Formula Formatter		5798-DPW	6600		300							G320-9189	4250/MVS or VM/DCP	1SH
SlideWrite		6317-034	225									G520-1107	All except PCjr	OSZ
STAIRS Input Formatter	DI5055	5740-XY9/02	5760		262							GH12-5124	6109,6232	2SB
-STAIRS to ATMS Transfer Extended		5798-DEE	1265		115						12	GB21-2751	CICS/OS-DOS/VS	1SH
STAIRS/VS Thesaurus Generator	RPQ-P71045	5799-AQL	4220		192							GH20-1908	OS/VS+STAIRS	1SC
STAIRS/VS Thesaurus Retrieval	RPQ-P71044	5799-AQK	10070		458							GH20-1908	OS/VS+5799-AQL	1SB
-STAIRS/VS Training Course		5796-PIF	3300		250							G320-6078	IIS,IIP3	1EH
Storage & Information Retrieval System	STAIRS	5664-189		1650	575		1235	375				GH12-5147	VM/ISPF,XT/370	1SM
Storage & Information Retrieval System	STAIRS/VS	5740-XR1	28160		1280							GH12-5114	OS/VS,CICS/VS,IMS/VS	2SB
Storage & Information Retrieval System	STAIRS/VS	5746-XR4	22990		1045							GH20-1832	CICS/OS/VS	2SB
+System Support Program - Office Enhancem		5727-SS1/16	nc										6240	NISA
System/36 to System/36 Document Transfer	RPQ P84067	5799-BHE	800										OHS and TMS	1SX
System/38 to 5520 Communication B5C		5796-PZJ	2475									G320-9236	5714-SS1+5611-SS1	1SH
Telephone Access to Office Systems		6467-039	250									G320-9154	PROFS,PS/36,PS/38	OSE
Text Editor		5798-RLH	330									GB30-1927	5280 Data System	1SX
Text Editor	RPQ-P84046	5799-BFP	1150									GH30-0245	System/34	1SE
-Text Entry & Edit Facility		5798-RAR	3330		303						12	GB30-1470	Series/1	1SX
Text Management System	TMS/36	5727-TX1	1500			1320						G580-0454	System/36	1SX
-Textpack E - Entry Level		5608-TRE	55									G544-2188	Displaywriter 128K	OSE
-Textpack 4		5608-TR4	400									G544-2096	Displaywriter 256K	OSE
-Textpack 6 - Advanced Functions		5608-TR6	865									G544-2187	Displaywriter 320K	OSE
TMS/36 Upgrade to DisplayWrite/36		5727-TX1/01	550										Order 5727-WP1/01	1SA
Touch-Tone - Audio Support		5798-NXX			201						12	GB30-1350	Series/1	1SH
Typewriter and Pi Version 2		5771-ADH	1100									G520-0004	CDPF	1SE
Typewriter and Pi Upgrade from Ver1 to 2		5771-ADH/01	310										4518	BI5E
T3 tm Scientific Word Processing System		6187-281	595									GB30-2037	PC,XT,XT/370,AT,RT	OSY
Univers Condensed tm		5771-ACA	640									G520-0004	CDPF	1SE
Univers Cyrillic tm		5771-ACP	3000									G520-0004	CDPF	1SE
-Upgrade OMS/36 to PS/36		5727-WP3/01	1250			1100							4770,9683	1SA
Upgrade to PS/36		5727-OS1/01	1250			1100							Order 5727-WP3/01	1SA
VM3812 Pageprinter VM Support		5798-DTE	1900									G320-0799	VM	1SH
Voice / Text Messaging System	VTMS	5796-PZB	10560		480							G320-9231	VM	1SH
Word / Text Processing		5715-WP1	500									GC34-0417	Sys/23 Datamaster	11E
Word Processing II		5715-WP2	850									GC34-0497	Sys/23 Datamaster	11X
-Word Processor File Conversion		5798-DFY	915									GB21-2821	OS/VS,DOS/VSE	OSH
Word Proof		6024-071	65									G520-3917	PC,PCjr,XT	OSZ
WordMARK tm		6187-276	495									GB30-2037	PC,XT,AT,RT	OSY
WordStar 2000 (R)		6187-311	495									GB30-2037	PC,XT,AT,RT	OSY
WordStar 2000 Plus (R)		6187-313	595									GB30-2037	PC,XT,AT	OSY
3101 Emulation and Document Transfer		5798-RRE	330									GB30-2303	Displaywriter	1SX
-3270 Attached Work Station		5608-SR9	600									G544-2207	Displaywriter	OSE
-3270 Data Stream Compatibility		5608-SR6	600									G544-2049	Displaywriter	OSE

Program Title	Short Name	Number	OTC	ILC	MLC	DSO	DSI	DSH	HLP	MML	Mo	MoreInfo	Environment	TPLS
-3277 Emulation and Document Transfer	RPQ-P10074	5799-BKG	550									GA09-1679	5799-BKE	05E
-3800 Character/Graphic / Logo Design Aid		5798-DND	660									.GB21-3095	OS/VS+3800+5740-CB1	15X
4250 Candida tm	Typefont	5771-AAD	800									G520-0004	CDPF (5668-997)	11E
4250 Excelsior tm	Typefont	5771-AAG	480									G520-0004	CDPF (5668-997)	11E
4250 Futura tm	Typefont	5771-AAH	960									G520-0004	CDPF (5668-997)	11E
4250 Helvetica tm	Typefont	5771-AAK	960									G520-0004	CDPF (5668-997)	11E
4250 ITC Avant Garde Gothic tm	Typefont	5771-AAA	640									G520-0004	CDPF (5668-997)	11E
4250 ITC Souvenir tm	Typefont	5771-AAQ	640									G520-0004	CDPF (5668-997)	11E
4250 Monotype Baskerville tm	Typefont	5771-AAB	640									G520-0004	CDPF (5668-997)	11E
4250 Monotype Bodoni tm	Typefont	5771-AAC	640									G520-0004	CDPF (5668-997)	11E
4250 Monotype Century Schoolbook tm	Typefont	5771-AAF	640									G520-0004	CDPF (5668-997)	11E
4250 Monotype Century tm	Typefont	5771-AAE	640									G520-0004	CDPF (5668-997)	11E
4250 Monotype Garamond tm	Typefont	5771-AAJ	640									G520-0004	CDPF (5668-997)	11E
4250 Monotype Rockwell tm	Typefont	5771-AAP	640									G520-0004	CDPF (5668-997)	11E
4250 Monotype Times New Roman tm	Typefont	5771-AAR	640									G520-0004	CDPF (5668-997)	11E
4250 Optima tm	Typefont	5771-AAL	640									G520-0004	CDPF (5668-997)	11E
4250 Palatino tm	Typefont	5771-AAN	640									G520-0004	CDPF (5668-997)	11E
4250 Typewriter and Pi tm	Typefont	5771-AAH	800									G520-0004	CDPF (5668-997)	11E
4250 Univers tm	Typefont	5771-AAT	1280									G520-0004	CDPF (5668-997)	11E
5210 Full Function Support		5798-DTA	3850									G320-9254	VM+5210G Printer	25H
5520 Administrative Processing Prog 3.2		5611-SS2	10500		445							GC23-0702	5520 Admin. System	15A
5520 Attach Kit V3 (Feat 2896) Incl 289		6403-724	875									G520-3917	All except PCjr	05C
5520 Attach Version 3 (Feature 2895)		6403-725	384									G520-3917	All except PCjr	05C
6670 Fonts Library		5799-BGK	25									MVS		05C
6670 Fonts Library		5799-BGL	25									VSE		05C
6670 Fonts Library		5799-BGH	25									S/34,S/38,8100,S/36		05C
6670 Fonts Library		5799-BGQ	25									VM		05C
6670 II Image Printing System		5785-FAZ	660								.G320-0332	Font files,edit+PL/I		15H
6670 Information Distributor Support		5798-RPK	1210									.GB30-2219	System/36	15X
6670 Mod II Font Editing System		5785-FAN	880									.GB21-3068	OS/VS,VM	15X
6670 Preprocessor		5798-DKB	3045									.GB21-2974	MVS,VM	15E
6670 Presentation Enhancements		5798-DNQ	880									.G320-9159	MVS, VM+5798-DKB	15X
6670 Usability Aid		5798-DQF	5500		250							.G320-0368	VM+6670	15H

Program Title	Short Name	Number	OTC	ILC	MLC	DSO	DSI	DSM	MLP	MML	Mo	MoreInfo	Environment	TPLS
- 3800 90 Degree Print Program		5796-AMX	3145		286								12.G320-6067 D05/VSE	15H
APL2 Fonts (Source or Object)		5771-ADB	160										G544-3088 PSF+3800/20/3812	21E
-ATMS II Multiple Fonts for the 3800		5798-CRH	2110		192								12.GB21-2184 OS/V5+ICIS/V5	15H
-Boldface Print Program for the 3800		5798-CKR	1745		159								12.GB21-1942 OS/V52	15H
<u>Braille Text</u>		5798-DNC	2640										.GB21-3093 VM,MVS	15H
-Business Graphing on the IBM 3800		5798-CRB	2310		210								12.GB21-2167 OS/V5	15H
Character Conversion Aid		5665-299	1100										MV5+5748-XXH+AP1	01E
Characters for Mathematics and Science		5771-ACH	960										G520-0004 CDPF	15E
Composed Document Printing Facility 4250	CDPF	5668-997	4800		342				49	78			GC33-6133 SCRIPT and/or GDDM	15K
<u>Data Facility Product Version 1.1</u>	DFP	5665-284		1590	600		1191	450	93	149			GC26-4007 Superceded by Ver 2	25K
Datal Fonts (Source or Object)		5771-ADA	160										G544-3088 PSF+3800/20/3812	21E
Font Library Service Facility	FLSF	5668-890	2500							36	58		GC33-6165 ISPF+4250,3820	15K
-GDDM Graphics Productivity Option		5796-PRZ	1320										.G320-9142 5748-XXH	15X
GDDM Interactive Map Definition	GDDM/IMD	5748-XXH/02		767	214		575	161	22	35			GC33-0100 6084,2101,6503,2301	15K
<u>GDDM Presentation Graphics Feature</u>	GDDM/PGF	5748-XXH/01		767	162		575	121	36	58			GC33-0100 6049,2102,6500,2302	15K
Graphic Data Display Manager	GDDM/Base	5748-XXH		767	159		575	120	36	58			GC33-0100 VM,CTCS,IMS,MVS	15K
Hadassah tm and Monotype Century tm		5771-ACN	1500										G520-0004 CDPF	15E
-HASP Support for 3800	RPQ-MJ0792	5799-ATQ	6300										GH20-4493 OS/MT	15C
Helvetica Condensed and Expanded tm		5771-ACB	1120										G520-0004 CDPF	15E
<u>Helvetica tm - Language Extensions</u>		5771-ACF	4500										G520-0004 CDPF	15E
+Image Handling Facility		5785-DER	15000										.G320-9496 VM,MVS	25H
IITC Korinna tm		5771-ACD	1280										G520-0004 CDPF	15E
IITC Souvenir tm Upgrade from Ver 1 to 2		5771-ACC/01	320										4522	15E
IITC Souvenir tm Version 2		5771-ACC	960										G520-0004 CDPF	15E
-MANYFONT Text Processing Type Faces	DCF	5796-PPE	1450		132								12.G320-6634 DCF	15H
Monotype Bodoni Cyrillic tm		5771-ACR	3000										G520-0004 CDPF	15E
Monotype Garamond(R) Language Extensions		5771-ACH	3000										G520-0004 CDPF	15E
Monotype Levenim tm and Helvetica tm		5771-ACK	1500										G520-0004 CDPF	15E
Monotype Old Eng Text & New Berolina tm		5771-ACY	3000										G520-0004 CDPF	15E
<u>Monotype Peninim,Alachsoni,Times N Roman</u>		5771-ACJ	3000										G520-0004 CDPF	15E
Monotype Rockwell(R) Language Extensions		5771-ACG	3000										G520-0004 CDPF	15E
Monotype Times New Roman Cyrillic tm		5771-ACQ	3000										G520-0004 CDPF	15E
Monotype Times New Roman Language Extens		5771-ACX	3000										G520-0004 CDPF	15E
Oron tm and Univers (R)		5771-ACL	1500										G520-0004 CDPF	15E
<u>Overlay Generation Language Release 1</u>	OGL/MV5	5665-308		801	267						88	141	G520-5023 MV5+3800,3820	21K
Overlay Generation Language Release 1	OGL/VSE	5666-324		750	250								G544-3088 VSE+3800/3820	21K
+Overlay Generation Language/VM		5664-293	7670		295								G520-5102 VM	25M
+Page Printer Formatting Aid Release 1		5665-351			105								G544-3181 MVS,XA+3800-III,3820	11E
+Page Printer Formatting Aid Release 1		5666-327		250	75					60	96		G544-3088 VSE	21K
<u>+Page Printer Formatting Aid/VM</u>	PPFA	5664-199	2730		105								G520-4000 VM+3800/3820	25M
Pi and Specials tm (Source or Object)		5771-ABC	480										G544-3088 PSF+3800/20/3812	21E
-Presentation Enhancements Using the 3800		5798-DJY	1995	375	120								.GB21-2965 MVS	15X
-Print Image Library Documentation Aid		5798-DNE	660										.GB21-3097 OS/V5	15X
Print Management Facility Release 1.1	PMF	5665-307		882	294						132	211	G544-3088 MVS+VS/APL+GDDM	21K
<u>+Print Management Facility/VM</u>		5664-310	8450		325								G520-5102 GDDM+VSAPL/APL2	25M
Print Services Access Facility Release 1		5665-340		700	120						60	96	G544-3099 MVS,XA+ISPF+3800/20	21K
+Print Services Access Facility/VM	PSAF	5664-312	3770		145								G544-3415 VM+3800/3820	25M
+Print Services Fac - 3800 Chan Attach	PSF/VM	5664-198/02	13375		510	10031			383				G544-3415 4788,4787,6549,6560	25M
+Print Services Fac - 3820 Comm Attach	PSF/VM	5664-198/01	4000		200	3000			150				G544-3415 4789,4790,6586,6597	25M
<u>Print Services Facility Release 1.1</u>	PSF/VSE	5666-319		2000	100				1500	75	120	192	G544-3088 VSE	25K

Program Title	Short Name	Number	QTC	ILC	MLC	DSO	DSI	DSM	MLP	MHL	Mo	MoreInfo	Environment	TPLS
Print Services Facility 3800 III Rel 1.1 PSF		5665-275		4260	200			3195	150	176	282	G544-3088	MVS	2SK
+Print Services Facility/VM	PSF/VM	5664-198	9230		355	5923		267				G544-3415	VM+3800,3820	2SM
PSF/MVS 3800 Channel Attach Feature		5665-275/01	13375		510	10030		385					2151,6150	2SK
PSF/MVS 3820 Communication Attach Feat		5665-275/02	4000		200	3000		150					2161,6160	2SK
PSF/VSE 3820 Communication Attach Feat		5666-319/01	4000		200	3000		150					2135,6037	2SK
Report Distribution Processor II		5798-DTX	2100									.G320-0801	MVS	2SH
Report Management & Distribution System	RMDS	5665-310		5720	858							GC30-3191	MVS+CICS/VS,IMS/VS	1SE
Sonoran Sans Serif tm(Source or Object)		5771-ABB	640									G544-3088	PSF+3800/20/3812	2SE
Sonoran Serif (Source or Object)		5771-ABA	640									G544-3088	PSF+3800/20/3812	2IE
Typewriter and Pi Version 2		5771-ADH	1100									G520-0004	CDPF	1SE
Typewriter and Pi Upgrade from Ver1 to 2		5771-ADH/01	310										4518	B1SE
Univers Condensed tm		5771-ACA	640									G520-0004	CDPF	1SE
Univers Cyrillic tm		5771-ACP	3000									G520-0004	CDPF	1SE
3 of 9 Bar Code Print 3800-3		5798-DRW	3000									.G320-9243	MVS,XA	2SH
-3800 Character Extensions		5798-CZG	330									.GB21-2429	OS/VS DOS/VS	0SH
-3800 Character/Graphic / Logo Design Aid		5798-DND	660									.GB21-3095	OS/VS+3800+5740-CB1	1SX
-3800 Format II		5798-DAC	847		77							12.GB21-2496	OS/VS	1SH
-3800 Forms Utility		5798-CWH	2420		220							12.GB21-2287	OS/VS, PL/I	1SH
-3800 Interactive Business Graphics		5796-PTY	2420									.G320-9138	MVS	1SX
-3800 Interactive Character Design		5798-C7J	1920		181							12.GB21-2191	OS/VS, TSO	1IH
-3800 Line Inserter		5796-AZK	1120									.G320-6393	OS/VS	1SH
-3800 Page Mode - Text and Image Merge		5798-DPK	5500		250							.G320-9185	MVS	1SX
-3800 Plotting Facility		5785-AAA	2900		220							.GB21-2154	OS/VS	1SH
3800 Printing Subsystem Support		5747-CC1	nc									GC26-3913	DOS/VSE	NOSS
-3800 Side-by-Side Page Processor		5798-DFW	781		71							12.GB21-2816	OS/VS	1SH
-3800 3-of-9 Bar Code Print		5798-DMH	3300									.GB21-3048	OS/VS	1SX
3800 90 Degree Print Extensions		5796-BAC	858									.G320-6418	5796-ARE,-AMX	1SH
3800 90 Degree Print Program		5796-ARE	3430		260							.G320-5825	OS/VS	1SH
3800 90 Degree Rotate Rescaled Char Set		5798-DNK	440									.GB21-3121	MVS+3800-III	1SX
3812 Fonts - Pi and Specials		5669-163	480										3812 Font Mgt System	0SH
3812 Fonts - Sonoran Sans Serif		5669-162	640										3812 Font Mgt System	0SH
3812 Fonts - Sonoran Serif		5669-161	640										3812 Font Mgt System	0SH
4250 Candida tm	Typefont	5771-AAD	800									G520-0004	CDPF (5668-997)	1IE
4250 Excelsior tm	Typefont	5771-AAG	480									G520-0004	CDPF (5668-997)	1IE
4250 Futura tm	Typefont	5771-AAH	960									G520-0004	CDPF (5668-997)	1IE
4250 Helvetica tm	Typefont	5771-AAK	960									G520-0004	CDPF (5668-997)	1IE
4250 ITC Avant Garde Gothic tm	Typefont	5771-AAA	640									G520-0004	CDPF (5668-997)	1IE
4250 ITC Souvenir tm	Typefont	5771-AAA	640									G520-0004	CDPF (5668-997)	1IE
4250 Monotype Baskerville tm	Typefont	5771-AAB	640									G520-0004	CDPF (5668-997)	1IE
4250 Monotype Bodoni tm	Typefont	5771-AAC	640									G520-0004	CDPF (5668-997)	1IE
4250 Monotype Century Schoolbook tm	Typefont	5771-AAF	640									G520-0004	CDPF (5668-997)	1IE
4250 Monotype Century tm	Typefont	5771-AAE	640									G520-0004	CDPF (5668-997)	1IE
4250 Monotype Garamond tm	Typefont	5771-AAJ	640									G520-0004	CDPF (5668-997)	1IE
4250 Monotype Rockwell tm	Typefont	5771-AAP	640									G520-0004	CDPF (5668-997)	1IE
4250 Monotype Times New Roman tm	Typefont	5771-AAR	640									G520-0004	CDPF (5668-997)	1IE
4250 Optima tm	Typefont	5771-AAL	640									G520-0004	CDPF (5668-997)	1IE
4250 Palatino tm	Typefont	5771-AAN	640									G520-0004	CDPF (5668-997)	1IE
4250 Typewriter and Pi tm	Typefont	5771-AAW	800									G520-0004	CDPF (5668-997)	1IE
4250 Univers tm	Typefont	5771-AAT	1280									G520-0004	CDPF (5668-997)	1IE
6670 Information Distributor		5798-RRB	2060									.GB30-2301	System/38	1SX

<u>Program Title</u>	<u>Short Name</u>	<u>Number</u>	<u>OTC</u>	<u>ILC</u>	<u>MLC</u>	<u>DSO</u>	<u>DSI</u>	<u>DSM</u>	<u>MLP</u>	<u>MML</u>	<u>Mo</u>	<u>MoreInfo</u>	<u>Environment</u>	<u>TPLS</u>
-6670 Mod II Font Editing System		5785-FAW	880									.GB21-3068	OS/VS,VM	1SX
6670 Preprocessor		5798-DKB	3045									.GB21-2974	MVS,VM	1SE
6670 Usability Aid		5798-DQF	5500		250							.G320-0368	VM+6670	1SH

Program Title	Short Name	Number	OTC	ILC	MLC	DSO	DSI	DSM	HLP	MML	Mc	MoreInfo	Environment	TP/L
A Programming Language - APL	VSAPL	5748-AP1			386			289	41	66		GH20-9064	Replaced by 5668-899	15K
-APL - Based Products Interfacing Course		5798-DHN	1305									.GB21-2914	IIS,IIPS	1EX
-APL Beginner's Course		5796-PPM	770									.G320-9140	IIS,IIPS	15X
APL Data Interface	APLDI/PC	6410-978	355									.G520-3917	PC,XT+8087+6024-077	05H
APL Data Interface - Version II	APL/DI II	5796-PNG	10740		356							.G320-6348	VM/CMS with VSAPL	15X
-APL Interactive Training Course		5796-PJM	1055		40							.G320-5812	5748-AP1	1EH
-APL Performance Analysis Tools		5796-PPJ	1185		90							.G320-6643	T50,CMS,VSPC,CICS	15H
-APL System Extensions		5796-AZT	3165		240							.G320-6394	VM/CMS with VSAPL	15H
APL VS Time Shared Input/Output Interfac VS TSIO		5798-DQE	3300									.G320-0365	MVS,XA+APL	15H
-APL Workspace Structure Analyzer		5796-PNB	2055		187						12	.G320-6170	VSAPL	15H
APL2 for XT/370, AT/370		5668-899/01	735		49							3020,3021		05Z
APL2 Release 2		5668-899	14000	4170	695	12600	3126	521	37	59		GH20-9214	VM, MVS, XA	15K
Application Prototype Environment		5668-896	10000	1290	494	7500	963	369				.GH19-9391	VM,MVS+VSAPL or APL2	15E
Assembler & Macro Processor		5726-AS1	4000		165	3000	124					GC21-7840	System/34	15X
Assembler and Macro Processor		5727-AS1	4800		273	4220						GC21-7893	System/36	15Y
Assembler H - Version 2		5668-962		465	155		348	116	7	11		GC26-4035	OS/V5,MVS/XA,VM/SP	15K
Assembler H XT/370		5668-962/01	432		9							3002,3011		05C
Assembler Prompter		5734-CP2	1200		29							GC33-4038	T50	15C
Assembly Language		5708-AS1	1750		55	1310						GC21-7801	5280 Data System	15X
-Autocoder to COBOL Conversion Aid Progrm ACCAP		5798-CNH	1230									.GB21-2022	VM/CMS	01H
+BASIC		5669-056	1000									SV21-8018	RT AIX tm	05H
BASIC		5714-BA1	3600		205	3168		180				GC21-9044	System/38	15A
BASIC		5726-BA1	1900		76	1425		57				GC21-7841	System/34	15X
BASIC		5727-BA1	1600		90	1405						GC21-9011	System/36	15A
BASIC - A Private Tutor		6024-081	39									.G520-3917	PC	05Z
*BASIC Compiler Upgrade from 1.0 to 2.0		6024-215	209									.G520-1107	DOS 2.1 or later	05Z
+BASIC Compiler Version 2		6280-078	539										3.5" drive	05G
BASIC Compiler 2.0		6024-216	539									.G520-1107	DOS 2.1 or later	05Z
+BASIC Conversion Aid from BASIC Four		5798-DWB	3000									.G320-0830	System/38	15A
+BASIC Interpreter and Compiler		5669-054	1000									SV21-8018	RT AIX tm	05H
BASIC on 5.25" Diskette		6092-498	195									GC22-9184	CSOS Extensions	05W
BASIC on 5.25" Diskette		6419-529	195									GC22-9184	XENIX+System 9000	05W
BASIC on 8" Diskette		6089-578	195									GC22-9184	CSOS Extensions	05W
BASIC on 8" Diskette		6419-506	195									GC22-9184	XENIX+System 9000	05W
BASIC Primer		6024-053	65									.G520-3917	PC	05Z
BASIC Primer Version 2		6024-129	65									.G520-1107	PC,XT,PCjr	05Z
BASIC Processor and Library XT/370		5668-996/01	1008									3003,3012		05C
BASIC RM		5796-BCX	2842		258	93						.G320-6658	See 5668-996,5668996	15X
BASIC Subset		5726-BA2	390									GC21-9035	System/34	15A
-BASIC VS Programming		5798-DBX	3760		285							.GB21-2574	IIS,IIPS	1EH
+BASIC 3.2		6280-075	45										PC,XT,AT,PPC,PCjr	05Z
BASIC 5110/5120 to Sys/23 Conversion Aid		5715-CV1	875									GC34-1693	Sys/23 Datamaster	11E
BASIC/MVS Release 2		5665-948			4170	695		3126	521	42	67	GC26-4023	MVS	15K
BASIC/VM Release 2		5668-996	7000		1125	375	6300	843	281	38	61	GC26-4023	VM/SP	15K
BASIC/VS		5748-XX1			549				411	19	30	GC28-8302	See 5665-948,5668996	15K
C (programming language compiler)		6871-466	350									.GB30-2037	PC,XT,3270-PC	05Y
C Compiler		6280-072	495										PC,XT,AT	05Z
+C Compiler		6280-081	495										3.5" drive	05G
C Compiler on 5.25" Diskette		6179-244	595										XENIX+System 9000	05H
C Compiler on 5.25" Diskette	XENIX tm	6419-508	595										CSOS	05H

Program Title	Short Name	Number	OTC	ILC	MLC	DSO	DSI	DSH	MLP	MHL	Mo	MoreInfo	Environment	TPLS	
C Compiler on 8" Diskette	XENIX tm	6179-243	595										XENIX+System 9000	05H	
C Compiler on 8" Diskette		6419-507	595										CSDS	05H	
CBASIC Compiler tm		6871-343	600									.GB30-2037	PC,XT,3270-PC	05Y	
-CMS Exec Enhancements		5796-PJA	1690									12.G320-5728	VM/CMS	11H	
COBOL		5714-CB1	7200		154	6336		242				GC21-7764	System/38	15A	
COBOL		5726-CB1	3900		160	2925		120				GC21-7745	System/34	15X	
COBOL - OS to VS COBOL II		5785-AAT	5500		250							.G320-0445	MVS,XA	15H	
-COBOL - 3270 Full Screen Support		5796-ATK	1570		143							12.G320-0667	TSO	15H	
COBOL ANS/68	RPQ-P84019	5799-AWR			120			90				GC21-7784	System/34	15X	
COBOL Compiler		6024-011	700									G520-3917	PC	05Z	
COBOL Compiler & Library		5740-CB1			365			273	15	24		GC28-6470	OS/VS	15K	
COBOL Compiler & Library		5746-CB1			184			158	15	24		GC28-6473	DOS/VS	15K	
COBOL Compiler and Library		5727-CB1	2500		165	2200						GC21-9009	System/36	15A	
-COBOL Conversion Aid from Univac (R)		5785-JAC	3300									.GB21-2763	DOS/VSE OS/VS	05H	
-COBOL Conversion from Burroughs (R) 2500		5798-APH	2435									.GB21-0836	DOS/OS	01H	
-COBOL Conversion from Honeywell (R)		5785-JAA	3300									.GB21-2858	OS/VS, DOS/VSE, VM/370	05H	
COBOL Interactive Debug		5734-CB4	1008		375							GC28-6454	TSD/CMS	15B	
-COBOL Interactive Debug Training II		5798-DFZ	1090									.GB21-2825	IIS, IIPS	1EX	
COBOL Interactive Debug XT/370		5734-CB4/01	1008		22								3003,3004	05C	
COBOL Library		5740-LM1			118			88	7	11		GC28-6470	OS/VS	15K	
COBOL Library Only		5746-LM4			33			24	7	11		GC28-6473	DOS/VS	15K	
-COBOL Maintenance Aid		5796-AHZ	550									.G320-8146	OS/VS	11H	
COBOL OS/VS Compiler & Library XT/370		5740-CB1/01	912		20								3006,3008	05C	
COBOL OS/VS Library XT/370		5740-LM1/01	288		6								3007,3009	05C	
COBOL Prompter		5734-CP1			38			28	7	11		GC28-6454	TSD	15K	
+COBOL Structuring Facility		5668-786	125000		12500							.SC34-4080	VM,MVS+ISPF	15M	
COBOL Support for 4700 Finance System	FCS	5666-266			1070	375		802	280	66	106		GL23-0078	DOS/VSE	15K
COBOL Support for 4700 Finance System	FCS	5668-987			1495	520		1120	388	82	131		GL23-0078	OS/VS,MVS,XA	15K
+COBOL to COBOL II & CICS Com Lev Con Aid		5785-ABJ	7000		350							.G320-9498	MVS,XA+VS COBOL II	15H	
COBOL VS II Compiler and Library 1.1		5668-958			6420	1070		4812	802	53	85		GC26-4042	MVS,XA,VM	15K
COBOL VS II Compiler and Library 1.1		5668-958/01	3840		80							GC26-4042	XT/370,AT/370	05C	
COBOL VS II Library Only		5668-940			2550	425		1908	318	53	85		GC26-4042	MVS,XA,VM	15K
COBOL VS II Library Only 1.1		5668-940/01	1200		25							GC26-4042	XT/370,AT/370	05C	
COBOL 3650 Programmable Store System		5740-CB2			1070	318		802	238	11	17		GC30-3059	OS/VS	15K
-COBOL/PL/I Conversion Aid - VSE to MVS		5785-F80	4330									.GB21-2792	DOS/VSE,MVS,VM/CMS	01H	
-CPS COBOL - Virtual		5798-ZZ8	693		63							12.	Series/1	15H	
Digital Research FORTRAN 77 tm		6871-437	350									.GB20-2037	PC,ST,3270-PC	05Y	
DOS / Virtual Storage Extended	DOS/VSE	5745-030	nc									GC33-6108	S/370,4300,303x,3083	N05J	
EDX COBOL Host for Series/1	RPQ-P82647	5799-TEL			1555							24	GC34-1720	Series/1	15E
EDX COBOL Transient Library Version 2		5719-CB6	601		21								GC34-0389	Series/1	15X
EDX Macro Assembler		5719-ASA	888		22								Series/1	15C	
EDX Pascal	RPQ P82658	5799-TER	3900		208								Series/1	15X	
EDX PL/I Compiler & Resident Library		5719-PL5	7425		202							GC34-0145	Series/1	15C	
EDX PL/I Transient Library		5719-PL6	1370		37							GC34-0146	Series/1	15C	
Extended Editor and Full Screen Manager		5796-PLY	1685		85							.G320-6168	VSAPI with VM, TSO	15E	
FORTRAN (on eight-inch diskette)	XENIX tm	6294-124	595										GC22-9194	System 9000+XENIX	05E
FORTRAN (on 5.25-inch diskette)	XENIX tm	6294-125	595										GC22-9194	System 9000+XENIX	05E
FORTRAN - Code-and-Go		5734-F01	7200		323								GC28-6884	OS/TSD/CMS	15C
FORTRAN - VSPC		5748-F02			585			438	47	75			GH20-9061	DOS/VS,OS/VS1,MVS	15K
FORTRAN Compiler Version 2		6024-127	385										G520-3917	DOS2+	05Z

Program Title	Short Name	Number	OTC	ILC	MLC	DSO	DSI	DSM	HLP	MML	Mo	MoreInfo	Environment	TPLS
-FORTRAN Conversion Aid from non-S/370		5796-PFG	5500		250							.G320-8154	05/VS,VM/CMS	1IH
-FORTRAN Elementary Math Library	RPQ P81005	5799-BTB	300									.GH20-5370	VM,MVS+FORTRAN	1SE
FORTTRAN H - Extended Exponent Range	XEXP	5796-PKR/01	1890										6043,4	2SH
FORTTRAN H Extended Optimization Enhanced		5796-PKR	3780		169							.G320-9205	MVS,VM	1SH
FORTTRAN H Extended Plus	RPQ-FA2468	5799-AAH			1485			1110	5	8			MVS	1SX
FORTTRAN Interactive Debug		5734-F05	3600		256							GC26-3983	5734-F01,5748-F03	1SB
FORTTRAN IV		5726-F01	5400		222	4050		166				GC21-7685	System/34	1SX
FORTTRAN IV		5727-F01	2800		159	2460						GC21-0910	System/36	1SA
FORTTRAN IV (G1)		5734-F02			98				73	11	17	GC28-6884	05/TSO/CMS	1SK
FORTTRAN IV (H Extended) Compiler		5734-F03			426			319	17	27		GC28-6884	05/VS,MT/MVT/CMS	1SK
FORTTRAN IV Compiler & Obj Sup Lib Ver 2		5719-F02	950		22							GC34-0306	EDX/RPS	1SC
FORTTRAN IV Library Option 1		5746-LM3			40			30	7	11		GC28-6882	DOS	1SK
FORTTRAN IV Realtime Subrou Libr Ver 2		5719-F04	351		9							GC34-0140	RPS	1SC
+FORTRAN Language Conversion Program		5668-864	28000									SC23-0145	VM,MVS,XA+DFP	0SE
FORTTRAN Prompter		5734-CP3	123		32							GC28-6884	5734-F02+TS0	1SC
FORTTRAN Util Current licensees		5798-DFH/01	450									.GB21-2796	9587,8	B1SX
FORTTRAN Utilities for VM/370-III(New lic		5798-DFH	2400									.GB21-2796	VM	1SX
FORTTRAN VS - Interactive Debug 2.0 SPE		5668-903		1920	320		1397	240	26	42		GC26-4114	MVS,VM+5748-F03+LM3	1SK
FORTTRAN VS Compiler & Library 4.1		5748-F03		747	249		558	186	17	27		GC26-4114	MVS,XA,VM,VSE,VM/PC	1SK
FORTTRAN VS Compiler & Library XT/370		5748-F03/01	816		18								3000,3006	0SC
FORTTRAN VS Course		5796-BCT	1925									.G320-6653	IIS,IIPS	1EX
+FORTRAN VS Execution Analyzer		5798-DXJ	12500									G126-0139	MVS,XA+VS FORTRAN	1SH
FORTTRAN VS Interactive Debug XT/370		5668-903/01	1152		25								3006,3010	0SC
FORTTRAN VS Library 4.1		5748-LM3		219	73		162	54	7	11		GC26-3983	05/VS,VSE,VM,SSX	1SK
FORTTRAN VS Library XT/370		5748-LM3/01	192		4								3001,3007	0SC
FORTTRAN 77 Interactive Compiler	INfort	6410-971	275									.G320-0345	PC/IX	0SH
FORTTRAN 77 on 5.25-inch Diskette		6092-526	595									GC22-9194	CS05 Extensions	0SM
FORTTRAN 77 on 8" Diskette		6092-525	595										CS05 Extensions	0SH
FORTTRAN 77 Professional ANSI Comp+Libr		6024-200	649									G520-1107	8087/80287+DOS 2.1+	0SZ
+Golden Common LISP (R)		6205-279	495									.GB30-2037	PC,XT,AT	0SY
High-Accuracy Arithmetic FORTRAN Subrout	ACRITH	5664-185/01	150										3002 XT/370+VM/PC	0SC
High-Accuracy Arithmetic FORTRAN Subrout	ACRITH 1.3	5666-320	2500									GC33-6163	VSE+5748-F03	1SE
High-Accuracy Arithmetic Subroutine Libr	ACRITH 1.3	5664-185	2500									GC33-6163	VM+5748-F03,5748-LM3	1SE
High-Accuracy Arithmetic Subroutine Libr	ACRITH 1.3	5665-337	6000									GC33-6163	MVS,XA+5748-F03	1SE
INfort	RPQ P02056	5799-BZH		2230	500								VM/IX	0SH
ISPF Program Development Facility 2.2	ISPF/PDF	5685-317		4025	575		3015	431	14	22		.GC34-2136	ISPF	1SK
IX BASIC		5796-TBA	3500									.G320-0811	IX/370	1SH
IX COBOL		5796-TAZ	6000									.G320-0809	IX/370	1SH
IX CONNEXION Compiler (DIBOL tm)		6317-043	850									.G320-0912	PC/IX	0SH
IX CONNEXION Compiler (DIBOL tm)		6317-062	975									.G320-0912	XENIX tm	0SH
IX CONNEXION Runtime (DIBOL tm)		6317-044	425									.G320-0912	6317043	0SH
IX CONNEXION Runtime (DIBOL tm)		6317-063	500									.G320-0912	6317062	0SH
IX Pascal		5796-TBB	4800									.G320-0810	IX/370	1SH
IX RM/COBOL tm Compiler & Runtime Interp		6316-996	825									.3209-234	PC/IX	0SH
IX RM/COBOL tm Run Time Interpreter		6316-997	249									.3209-236	PC/IX	0SH
LISP		5798-DQZ	7150		325							.G320-0349	VM	2SH
LOGO (R) with Turtle Graphics		6024-076	175									G520-3917	PC,PCjr	0SZ
+Macro Assembler		6280-077	189										3.5" drive	0SG
MATH - BASIC		5734-XM8	1320		60							.GH20-1128	CMS,VSPC	1SC
micro-PROLOG		6205-277	395									.GB30-2037	PC,XT,AT	0SY



Program Title	Short Name	Number	OTC	ILC	MLC	DSO	DSI	DSH	HLP	MHL	Mo	MoreInfo	Environment	TPLS
05 FORTRAN IV Library (Mod II)		5734-LM3			131			98	17	27		GC28-6884	05,05/VS,VM	15K
Pascal (on eight-inch diskette)	XENIX tm	6294-122	595									GC22-9190	System 9000+XENIX	05E
Pascal (on 5.25-inch diskette)	XENIX tm	6294-123	595									GC22-9190	System 9000+XENIX	05E
+Pascal Compiler		5669-055	1000									SV21-8015	RT AIX tm	05H
Pascal Compiler Version 2		6024-128	385									G520-3917	D052+	05Z
Pascal on 5.25" Diskette		6092-524	595									GC22-9190	CS05 Extensions	05W
Pascal on 8" Diskette		6092-523	595									GC22-9190	CS05 Extensions	05W
Pascal/VS Compiler		5796-PNQ	6300		247	5670		188				G320-6387	VM/CMS,05/VS,MVS/XA	15E
Pascal/VS XT/370		5796-PNQ/01	554		11								3025,3028	05C
PL/I		5714-PL1	9800		524	8624		461				GC21-8017	System/38	15A
PL/I		6871-350	750									G830-2037	PC,XT,3270-PC	05Y
PL/I Checkout Compiler		5734-PL2		575				431	7	11		GC33-0003	05/VS/MFT/MVT/CMS	15K
-PL/I Language Construction Preprocessor		5796-PLL	1690	154							12	G320-6096	05/VS, VM/CMS	15H
PL/I Optimizer & Library		5666-276		347				260	50	80		GC33-6143	SSX/VSE	15K
PL/I Optimizing Compiler		5736-PL1		251				188	39	62		GC33-0004	D05/VSE,SSX/VSE,CMS	15K
PL/I Optimizing Compiler & Library		5736-PL3		344				258	53	85		GC33-0004	D05/VSE,SSX/VSE,CMS	15K
PL/I Optimizing Compiler & Library 5.1		5734-PL3		398				298	53	85		GC33-0001	MVS,XA+DFP,VM,CICS	15K
PL/I Optimizing Compiler Release 5.1		5734-PL1		296				222	59	62		GC33-0001	MVS,XA+DFP,VM,CICS	15K
PL/I Optimizing Compiler & Library XT/370		5734-PL3/01	1008	22									3000,3005	05C
PL/I Programming Training		5798-CR1	3245	246								GB21-2187	IIS,IIPS	1EH
PL/I Resident Library		5736-LM4		58				43	7	11		GC33-0004	D05,D05/VS/VSE,CMS	15K
PL/I Resident Library Release 5.1		5734-LM4	192	64				48	7	11		GC33-0001	MVS,XA+DFP,VM,CICS	15K
PL/I Resident Library XT/370		5734-LM4/01	192	4									3002,3007	05C
PL/I Transient Library		5666-277		35				25	7	11		GC33-6143	SSX/VSE	15K
PL/I Transient Library Release 5.1		5734-LM5		37				27	7	11		GC33-0001	MVS,XA+DFP,CICS,VM	15K
PL/I Transient Library Release 6		5736-LM5		34				25	7	11		GC33-0004	D05,D05/VS/VSE,CMS	15K
PL/I Transient Library XT/370		5734-LM5/01	192	4									3001,3006	05C
RM/COBOL tm (on eight-inch diskette)	XENIX tm	6294-120	1250									GC22-9267	System 9000+XENIX	05E
RM/COBOL tm (on 5.25-inch diskette)	XENIX tm	6294-121	1250									GC22-9267	System 9000+XENIX	05E
RM/COBOL tm Compiler and Runtime		5796-PZK	1900									G320-0800	System/36	25H
RM/COBOL tm Compiler and Runtime		5796-TBT	1250									G320-0818	System/36 PC	25S
RM/COBOL tm Runtime		5796-PZL	400									G320-0800	System/36	25H
RM/COBOL tm Runtime		5796-TBR	250									G320-0818	System/36 PC	25H
RPG II		5726-RG1	1300		52	975		39				GC21-7669	System/34	15X
RPG II		5727-RG1	800		44	700						GC21-9008	System/36	15A
RPG II		5736-RG1	2800		100							GC21-5021	D05,D05/VS	15C
RPG II Auto Report Feature		5736-RG1/01	750		26							GC21-5052	4513,4515	15C
RPG II Compiler		5666-274		160				120	7	11		GC33-6143	SSX/VSE	15K
RPG II Compiler		5740-RG1		663	221			495	165	13	21	GC33-6120	05/VS	15K
RPG II Compiler		5746-RG1		160				120	7	11		GC33-6120	D05/VSE,SSX/VSE	11K
RPG II Subset		5726-RG2	270									GC21-9034	System/34	15A
RPG III		5714-RG1	2800		108	2464		95				GC21-7762	System/38	15A
RPS Pascal	RPQ P82659	5799-TEQ	3900		208								Series/1	15X
RPS PL/I Compiler & Resident Lib Ver 2		5719-PL2	7425		202							GC34-0281	Series/1	15C
RPS PL/I Transient Library Version 2		5719-PL4	1370		37							GC34-0282	Series/1	15C
RPS S/370 Host COBOL for Series/1	RPQ-P82648	5799-TEP		1535							24	GC34-1721	Series/1	15E
Scientific Subroutine Library on 8" disk	XENIX tm	6419-369	325									GC22-9262	S/9000+FORTRAN,Pasca	05W
Scientific Subroutine Library 5.25" disk	XENIX tm	6419-472	325									GC22-9262	S/9000+FORTRAN,Pasca	05W
STAT - BASIC		5734-XA3	1320		60							GH20-1027	ITF(D05/05/TSO),VS	15C
System/36 to S/38 Conversion Aid 1.2.0		5714-CV9	600									GC21-8025	S/36+S/38	11A

Program Title	Short Name	Number	OTC	ILC	MLC	DSO	DSI	DSH	MLP	MML	Mo	MoreInfo	Environment	TPLS
TRANSLATOR Burroughs (R) COBOL 1800-1900		5796-PXY	46200									.G320-9204	MVS+ISPF	0SH
TRANSLATOR Burroughs COBOL 2000-4900		5796-PYL	46200									.G320-9204	MVS+ISPF	0SH
TRANSLATOR Burroughs COBOL 5, 6 & 7000		5796-PYN	46200									.G320-9204	MVS+ISPF	0SH
TRANSLATOR Honeywell (R) 200 COBOL		5796-PXZ	46200									.G320-9204	MVS+ISPF	0SX
TRANSLATOR Honeywell 2000 COBOL		5796-PYP	46200									.G320-9204	MVS+ISPF	0SH
TRANSLATOR Univac (R) System 80 COBOL		5796-PYR	46200									.G320-9204	MVS+ISPF	0SH
TRANSLATOR Univac (R) 1100 COBOL		5796-PYQ	46200									.G320-9204	MVS+ISPF	0SH
TRANSLATOR Univac (R) 9000 COBOL		5796-PYA	42000									.G320-9204	MVS+ISPF	0SH
TURBO PASCAL		6187-326	70									.GB30-2037	PC,XT,AT,PCjr	0SY
Turtle Power (Feature 4109)		6024-109	55									G520-3917	PC,PCjr,XT	0SZ
UCC TWO VSE to MVS Migration Aid	UCC2	5796-PMH	49500									.G320-9190	VSE+MVS.XA	1SH
-UCSD p-System (R) FORTRAN 77 Compiler		5608-MA2	250									G552-0371	5608-MS2	1SX
-UCSD p-System (R) Pascal Compiler		5608-MA1	250									G552-0371	5608-MS2	1SX
VM Programming in Logic		5785-ABH	8000									.G320-9228	VM	2SH
VS APL for XT/370, AT/370		5748-APL/01	735		49								3011,3012	0SZ
VS COBOL Workbench		6205-286	4000									.GB30-2037	PC,XT,AT,3270-PC	0SY
+VS FORTRAN Compiler Library& Debug 2.2.1		5668-806			750			563				SX26-3751	VM,MVS.XA+DFP	1SE
+VS FORTRAN Library 2.1.1		5668-805			200			150				SX26-3751	VM,MVS.XA+DFP	1SE
Waterloo and HATCOM Languages		5793-AAP	4950									.GB30-2339	DOS	0SF
Waterloo and HATCOM Languages for VM		5793-AAP/01	6600										9504	0SE
Work Station Support Subroutine	RPQ-P84034	5799-AYH			20			15				GC21-7808	System/34	1SX

Program Title	Short Name	Number	OTC	ILC	MLC	DSO	DSI	DSM	MLP	MML	Mo	MoreInfo	Environment	TPLS
*Application System Release 4	AS	5767-001	6000	30000	2000							GE45-5000.MVS.VM+GDDM	.T1SE	
-Automated Project Planning & Evaluation	APPLES	5796-AZR	968		88							12.G320-6399 MVS.DOS/VS,VM/CMS	15H	
CIPREC Extended Function Package	CIPREC	5740-XC3/01			1113	488						.GH19-1150 6186,6195	25B	
CIPREC Extended Function Package		5746-XC3/01			948	362						.GH19-1150 6118,6119	25B	
CIPREC/Graphic Services		5787-GAF	36300		1650							.G320-9207 VM,MVS,VSE	25H	
Cost Evaluation Processor Feature	PROJACS	5740-XP1/02	1980		90							.GH19-1055 6006,6222	11B	
Cost Evaluation Processor Feature	PROJACS	5746-XP1/02	1980		90							.GH19-1055 6009,6153	11B	
Cost Processor Feature	PMS IV	5734-XP4/01	1935		88							.GH20-0855 6016,6017,6200	01B	
Enhanced Network Processor Feature	PMS IV	5734-XP4/03	3650		166							.GH20-0855 6088,6089,6204	01B	
Harvard tm Total Project Manager		6871-481	495									.GB30-2037 PC,XT,AT	05Y	
Job Analysis System		5798-RRH	3025									.GB30-2309 System/36	15X	
-Managing Appl Development - Bar Charter	MADP	5798-DMX	396									.GB21-3082 OS/VS,DOS/VSE	15X	
-Managing Appl Development - Plan & Track	MADP/PATS	5798-DHA	1055									.GB21-2887 OS/VS,VSE	15X	
Microsoft (R) Project		6086-003	395									.GB20-2037 PC,XT,PCjr,AT,3270PC	05Y	
MINIPERT		5734-XP3	3980		181							.GH20-4432 APLSV,APL/CMS	11C	
Network Preparation Processor Feature	PROJACS	5740-XP1/03	1980		90							.GH19-1055 6009,6225	11B	
Network Preparation Processor Feature	PROJACS	5746-XP1/03	1980		90							.GH19-1055 6014,6158	11B	
Problem Statement Language and Analyzer	PSL/PSA	5796-BDX	49500									.G320-2719 VM,MVS	15H	
Project Analysis and Control System	PROJACS	5740-XP1	8070		367							.GH19-1055 OS/VS,MVS/XA	11B	
Project Analysis and Control System	PROJACS	5746-XP1	8070		367							.GH19-1055 DOS/VS	11B	
-Project Evaluation and Control System	PEACS	5785-EAE	8580		373							.G320-6088 VS-APL (5748-AP1)	15H	
Project Management System IV	PMS IV	5734-XP4	1955		89							.GH20-0855 OS/VS	11B	
Project Planning and Scheduling		6276-500	150									PC,XT,jr,AT,3270-PC	05R	
Project Scheduler 5000		6871-485	285									.GB30-2037 PC,XT	05Y	
Project Scheduler 5000 Plus Graphics tm		6085-992	395									.GB30-2037 PC,XT	05Y	
Resource Allocation Processor Feature	PMS IV	5734-XP4/02	7875		358							.GH20-0855 6020,6202	01B	
Resource Allocation Processor Feature	PROJACS	5740-XP1/01	3980		181							.GH19-1055 6003,6219	11B	
Resource Allocation Processor Feature	PROJACS	5746-XP1/01	3980		181							.GH19-1055 6004,6148	11B	
SuperProject Plus tm		6871-439	495									.GB20-2037 PC,XT,AT	05Y	

<u>Program Title</u>	<u>Short Name</u>	<u>Number</u>	<u>OTC</u>	<u>ILC</u>	<u>MLC</u>	<u>DSO</u>	<u>DSI</u>	<u>DSM</u>	<u>HLP</u>	<u>MML</u>	<u>Mo</u>	<u>MoreInfo</u>	<u>Environment</u>	<u>TPLS</u>
Dortmund Leuven Library System Batch	DOBIS	Rel2 5787-FAH	13900		632							24.G320-6662	5787-DAA	2SX
Dortmund Leuven Library System Batch	DOBIS	Rel1 5787-FAL	8820		401							24.G320-6662	5787-DAB	2SX
Dortmund Leuven Library System Online	DOBIS	Rel4 5787-FAJ	13900		632							24.G320-6662	5787-DAA -FAH	2SX
Dortmund Leuven Library System Online	DOBIS	Rel4 5787-FAK	13900		632							24.G320-6662	5787-DAA -FAH	2SX
<del>Dortmund Leuven Library System Rel 4</del>	<del>DOBIS</del>	<del>5787-DAA</del>	<del>22330</del>		<del>1015</del>							<del>24.G320-6662</del>	<del>OS/VS,CICS/VS</del>	<del>2SX</del>
Dortmund Leuven Library System Rel 4	DOBIS	5787-DAB	17290		786							24.G320-6662	DOS/VSE,CICS/VS	2SX
Job Analysis System	CPM	5726-XP1	5090		207	3820		154				.GH30-0511	System/34	1SX
+Land Ownership Tax Mapping	LOTMAP	5796-PXK	10000									.G320-0359	Graphic Prog Genertr	2SH
Library Congress Marc to Dortmund Dmarc	DOBIS	5796-PPZ	577									.G320-9132	DOS,VS1,MVS	1SX
<del>Maintenance &amp; Construction Costing System</del>	<del>DOBIS</del>	<del>5796-PXT</del>	<del>11000</del>									<del>.G320-0338</del>	<del>System/34,36+COBOL</del>	<del>1SH</del>
Periodicals Control System Rel 4	DOBIS	5785-DDN	15795	2500	718							24.G320-6662	5787-DAA+FAJ+FAH	2SH
Periodicals Control System Rel 4	DOBIS	5785-DED	15795	2500	718							24.G320-6662	5787-DAB+FAK+FAL	2SH
Public Budgeting & Accounting Appl Govt	PBA	5726-G21	12250		468	9175		350				.GH50-0229	System/34	11X
Public Sector Acctg Sys - Utility Acctg	PSAS	5710-GA6	8500									.	System/36	1SI
<del>Public Sector Budgeting/Accounting</del>	<del>PSAS</del>	<del>5710-GA4</del>	<del>10890</del>									.	<del>System/36</del>	<del>1SH</del>
Public Sector Payroll & Personnel Acctg	PSAS	5710-GA5	4400									.	System/36	1SI
School - Library Management System	CIMS	5796-ZGF	1980									.GB30-2268	System/36	1SH
Service of Process		5798-DTJ	616									.G320-0364	5520	1SX
Voter Registration / Jury Selection Syst		5794-PXM	12100									.G320-0339	System/34,36+COBOL	1SH
<del>Writing to Read</del>	<del></del>	<del>6360-700</del>	<del>725</del>									<del>G520-1107</del>	<del>PCjr+Speech attachmt</del>	<del>05Z</del>

## Retail and Store Systems

This Cluster contains application solutions for seven different types of retailers: department store, specialty store, mass merchandiser, supermarket, drug store and pharmacy, convenience store and retail food service. Regardless of the retailer's size and number of stores, there are solutions utilizing large, small or distributed computers and networks of computers.

Today's retailer has increased interest in store system applications. A retailer's largest controllable cost, labor, is at the store level. Consequently, one of the areas for productivity gain is the implementation of computer store systems. To fulfill those requirements, many customers are installing backroom applications such as direct store delivery, time and attendance, electronic funds transfer and electronic mail. Additionally, checkout systems which perform functions at the store's front-end register provide benefits of advanced point-of-sale utilization.

General merchandise retailers should note that the PARIS applications, now are available for MVS users. In the checkout systems, restaurant management has shown great interest in the full menu IBM 3680 Restaurant System. Supermarket and mass merchandisers looking for improved inventory and reordering at the store level should note the recently announced Store Item Management System on the Series/1. For the Systems/36, 34 and 38, Retail Planning and Merchandising is our standout offering. For the System/370, INFOREM II is the preferred choice for inventory forecasting and replenishment. Articles on PARIS, INFOREM and Retail Planning are featured in the Software Fair (Section One) pages.

The last card in the book is provided so you may subscribe to new IBM announcements in your specific retail segment.

Program Title	Short Name	Number	OTC	ILC	MLC	DSO	DSI	DSH	MHP	MML	Mc	MoreInfo	Environment	TPL%
Accounts Payable	DFAS II	5726-M43	2675		108	2010		79				.GH30-0221	System/34	IIX
Accounts Payable Distribution	DMS/38	5714-D48	2675		93	2010		70				.GH30-0710	System/38	IID
Accounts Receivable Distribution	DMS/38	5714-D42	4355		151	3265		112				.GH30-0130	System/38	IIX
Accounts Receivable Distributors	DMAS	5726-D48	1650		86							.GH30-0093	System/34	IIX
Accounts Receivable Distributors	DMAS II	5726-D42	2675		108	2010		79				.GH30-0185	System/34	II%
Accounts Receivable Lumber Dealers	LDMAS	5726-D4F	1650		86							.GH30-0166	System/34	IIX
Advanced Data Communication for Stores	ADCS	5735-XR2	5455		248							.GH20-2188	DOS/VSE,05/VS	15E
Auto Dealership Mgmt - Accounting		5796-ZEJ	11000									.GB30-2107	System/34	15X
Billing Distributors	DMAS	5726-D4A	2585		134							.GH30-0093	System/34	IIX
Billing Distributors	DMAS II	5726-D41	3885		157	2910		118				.GH30-0185	System/34	II%
California Medical Assistance Program	Medi-CAL	5798-RGD/01	440									.GB30-1699	6035	15X
Cashier Assignment System		5798-CKQ	3025		275				12	.GB21-1921	DOS/VS			1IH
COBOL 3650 Programmable Store System		5740-CB2		1070	318		802	238	11	17		GC30-3059	OS/VS	15K
COBOL 3650 Programmable Store System		5746-CB2		855	285		639	213	11	17		GC30-3059	DOS/VS	15X
Credit / Check Authorization		5798-DEH		7875	3015				12	.GB21-2748	MVS,DOS/VSE,CICS/VS			15%
Cross Application System Support	CASS	5727-D4A	1815		106	1360						.GH30-0690.S/36,S/36	PC+DMAS	15J
Customer Service Billing Distribution	DMS/38	5714-D41	4985		173	3735		129				.GH30-0130	System/38	IIX
Direct Store Vendor Delivery Control		5796-BBE			655				24	.G320-6423	DOS/VS CICS DL/I			15H
+Distribution Control Sys INFOREM Xface		5793-ADN	10000									.GB30-6003	5793-ADF+INFOREM II	15H
+Distribution Control Sys INFOREM Xface		5793-AFP	10000									.GB30-6003	5793-AFG+INFOREM II	15H
Distribution Purchasing Management Syste		5796-PTB		3400	977				24	.G320-9143	DOS/VSE			15H
Distributors Mgt Acctg - Accts Pay	DMAS	5727-D48	2805		163	2105						.GH30-0696	CASS	15B
Distributors Mgt Acctg - Accts Rec	DMAS	5727-D42	2805		163	2105						.GH30-0690	CASS	15B
Distributors Mgt Acctg - Billing	DMAS	5727-D41	4070		233	3050						.GH30-0690	CASS	15B
Distributors Mgt Acctg - Gen Ledger	DMAS	5727-D47	2805		163	2105						.GH30-0696	CASS	15B
Distributors Mgt Acctg - Inv Ctrl	DMAS	5727-D43	3685		214	2765						.GH30-0690	CASS	15B
Distributors Mgt Acctg - Inv Mgmt	DMAS	5727-D46	6435		371	4825						.GH30-0690.CASS+5727-D43		15B
Distributors Mgt Acctg - Payroll	DMAS	5727-D49	3795		220	2845						.GH30-0696	CASS	15J
Distributors Mgt Acctg - Purchasing	DMAS	5727-D45	7810		447	5855						.GH30-0696	CASS	15J
Distributors Mgt Acctg - Sales Anal	DMAS	5727-D44	3685		214	2765						.GH30-0696	CASS	15B
DMAS II Acct Rec Enhance - Food Distrib		5798-NXZ			138				12	.GB30-1340	System/34			15H
DMAS II Billing Enhance - Food Distrib		5798-NXY			207				12	.GB30-1340	System/34			15H
DMAS II File / Record Definitions		5798-RPY	330									.GB30-2134	Retrieval/36	15X
-DMAS II File / Record Definitions		5798-RQQ	330									.GB30-2132	Retrieval/34	15X
EDX Chain Pharmacy	Medi-CAL	5798-RGD	2420									.GB30-1699	Series/1	15X
-EDX Direct Store Delivery System		5798-RLW	1200									.GB30-1998	Series/1	15X
EDX Energy Management - Supermarkets		5796-RJT	660									.GB30-1847	Series/1	15X
EDX Energy Mgt - Optional Source Code		5796-RJT/02	308										3014	15H
EDX Interface Code ( Com-Trol ) FMS-2000		5796-RJT/01	220									.GB30-1847	2019	15J
EDX Point of Sale - Hospitality		5710-D02	19900									.GB30-2499	Series/1	25H
-EDX S/1 to 3660 Communications System		5796-PTP	1210									.G320-9149	Series/1	15%
EDX Store Item Management		5798-RTE	1000									.GB30-2405	Series/1	15H
EDX Store Item Receiving System		5719-DSD	1600									.SB30-7013	COBOL+5719-TR1	25E
Financial Applications Bridge - Retail	RMAS	5726-XA7	5400		188				24	.GH30-0136	System/34			15E
General Ledger Distribution / Media	DMS/38	5714-D47	2675		93	2010		70				.GH30-0710	System/38	IID
General Ledger Distributors	DFAS	5726-D6A	1260		59							.GH30-0219	System/34	1IC
Host Interactive Store Communications		5798-DNH	26400		1200							.GB21-3117	MVS+CICS	25J
-In-Store Data Communication Facility		5796-BDL	858									.G320-9129	Series/1	15X
Inbound File Analysis and Retrieval		5798-DTP	2555									.GB30-2037	ADCS	15H
INFOREM II Allocation		5798-DDT	13550		616				24	.GB21-2695	OS/VS,DOS/VSE			15H

Program Title	Short Name	Number	QTC	ILC	MLC	DSO	DSI	DSH	MLP	HML	Mo	MoreInfo	Environment	TPLS
INFOREM II Online Processor		5798-DET	15480		704							24.GB21-2695	OS/VS,DOS/VSE	15H
Inv Mgmt Prod Rep & Ord Val Eval Improve	DMS/38	5714-D46	9975		349	7475		261				.GH30-0080	System/38	11D
Inven/34 - Computer-Assisted Inventory		5798-NNX			488							12.GB30-1102	System/34	15H
Inventory Control Distribution	DMS/38	5714-D43	4670		163	3505		123				.GH30-0130	System/38	11X
Inventory Control Distributors	DMAS	5726-D4C	2365		122							.GH30-0093	System/34	11X
Inventory Control Distributors	DMAS II	5726-D43	3515		143	2640		108				.GH30-0185	System/34	11X
Inventory Control Lumber Dealers	LDMAS	5726-D4G	2150		111							.GH30-0166	System/34	11X
Inventory Forecasting & Replenishment II	INFOREM II	5798-DDR	15110		687							24.GB21-2695	OS/VS,DOS/VSE	15H
Order Management System		5796-KCB	71500									.GB30-2466	System/38	15(C)
Over-the-Counter Inv & Accts Rec Inquiry	DMAS II	5726-DM5	2255									.GB30-2501	System/34	15C
PARIS- Purchase Order & Merchandise		5796-PTE		3095	891							36.G320-9145	5666-294	15X
PARIS- Receiving Checking & Distribution		5796-PTD		995	287							36.G320-9146	5666-294	15X
+PARIS/Invoice Processing System		5796-TCL	40000									.G320-9487	PARIS/Base+MVS	25H
+PARIS/Invoice Processing System		5796-TCN	28000									.G320-9487	PARIS/Base+VSE	25H
Payroll Distribution	DMS/38	5714-D49	3410		119	2560		89				.GH30-0710	System/38	11D
Payroll 401K Tax-Deferred Savings Plan	DMAS	5798-RWK	300									.GB30-2495	S/36 DMAS Payroll	15H
Pharmacy - Programmable Store System		5735-H11			48							48.GH20-5278	DOS/VS,OS/VS	15H
-Physical Inventory Enhancement	DMAS II	5798-RBN	1110		101							12.GB30-1506	System/34	15H
Planning Aid for Retail Information/Base	PARIS/Base	5665-320			4708	1350						.GE20-0582	DFDS+DFEF+DMS+IMS+CO	15E
Planning Aid for Retail Information/Base	PARIS/Base	5666-294	22275		2775	747						.GH20-5611	DL/I,CICS/DOS/VS,VSE	13E
-Point-of-Sale Data Collection & Distrib		5798-NYA	3110		283							12.GB30-1397	Series/1	15H
Purchase Ordering & Mdse Info. System	PARIS	5796-PXP	47300									.G320-9195	MVS+PARIS/Base	15H
Purchasing Distribution	DMS/38	5714-D45	9605		335	7205		250				.GH30-0595	System/38	11X
Purchasing Distributors	DMAS II	5726-D46	7455		303	5590		226				.GH30-0185	System/34	11D
Receiving, Checking & Distribution Systm	PARIS	5796-PXQ	20350									.G320-9146	MVS+PARIS/Base	15H
Retail Applications System/36	RAS/36	5798-RAS	19900									.GB30-2497	System/36	15H
-Retail Inventory - Planning & Mdse Syst		5796-ZDN		10990	2195							12.GB30-2042	System/34	15X
Retail Inventory Plan & Mdse System		5796-ZFA		9995	3795							24.GB30-2207	System/38	15X
Retail Inventory Planning & Mdse	RIPMS	5796-ZGT	66000									.GB30-2319	System/36	15X
-Retail Pharmacy System		5798-NRN	7290		663							12.GB30-1226	System/34	15H
Retail Store System Host Support		5744-BQ1	nc									GC30-3022	OS/VS1	NO5S
Sales Analysis Distribution	DMS/38	5714-D44	4040		139	3030		105				.GH30-0130	System/38	11D
Sales Analysis Distributors	DMAS	5726-D4D	2150		111							.GH30-0093	System/34	11X
Sales Analysis Distributors	DMAS II	5726-D44	3350		125	2515		88				.GH30-0185	System/34	11X
-Sales Analysis Enhancements	DMAS II	5796-RJL	550									.GB30-1810	System/34	15X
-Simultaneous Printing 3650 Transactions		5798-CZK	297		27							12.GB21-2469	DOS/VS	15H
Store System Installation Aids	PSS	5770-SA1	nc										DOS/VS,DOS/VSE	NO5B
3680 Restaurant System		5668-914	1100									.GH20-6210	VSE,OS/VS+PSS	15A
+4680 BASIC		5669-034	2500									SC30-3356	4680 Operating System	15M
+4680 General Sales Applic Source Code		5669-031/01	10000									SC30-3367	7898	15M
+4680 General Sales Application		5669-031	900									SC30-3367	4680 Operating System	15M
+4680 Operating System		5669-033	1250									SC30-3367	AT Store Controller	15M
+4680 Operating System Mult Contrlr Feat		5669-033/01	625			437						SC30-3367	4606,9001,5898	15M
+4680 Supermarket Application		5669-032	2250									GC20-3371	4680 OS 1.2	15M
+4680 Supermarket Application Sourcecode		5669-032/01	10000									GC20-3371	4643,7898	15M

<u>Program Title</u>	<u>Short Name</u>	<u>Number</u>	<u>OTC</u>	<u>ILC</u>	<u>MLC</u>	<u>D90</u>	<u>DSI</u>	<u>DSM</u>	<u>MLP</u>	<u>MML</u>	<u>Mo</u>	<u>MoreInfo</u>	<u>Environment</u>	<u>TPLS</u>
Advanced Control System ACS	RPQ-P09032	5799-BEM	20070		1825							12.GB20-2464	Series/1+5799-BEJ	2SE
Advanced Control System - Host ACS	RPQ-P09031	5799-BEJ	247800		22550							12.GB20-2464	V51,5799-AHE	2SE
Base Program Preparation Facility		5719-PA1	2375		144							24.GC34-0091	Series/1	1SC
California Medical Assistance Program	Medi-CAL	5798-RGD/01	440									.GB30-1699	6035	1SX
-COBOL Subsystem Compiler		5796-NPW	4300		391							12.GB30-1100	Series/1	1SH
Communicating Job Stream Processor		5798-RFC	715									.GB30-1628	Series/1	1SH
CPS - Binary Synchronous Support	RPQ-P82516	5799-TAF	120		5							24.SC34-1553	Series/1	1SC
CPS - Control Program Support	RPQ-P82508	5799-TAA	480		21							24.GC34-1557	Series/1	1SC
CPS Address Translator Support	RPQ-P82536	5799-TBT	144		7							24.GC34-1601	Series/1	1SC
CPS Auto-Call Interface	RPQ-P82533	5799-TBC	144		6							24.SC34-1552	Series/1	1SC
-CPS COBOL - Virtual		5798-ZZB	693		63							12.	Series/1	1SH
CPS Commercial Arithmetic	RPQ-P82534	5799-TBD	48		2							24.SC34-1566	Series/1	1SC
CPS Disk Spooling	RPQ-P82529	5799-TAY	72		3							24.SC34-1563	Series/1	1SC
CPS Disk Table of Contents	RPQ-P82528	5799-TAM	28		1							24.SC34-1561	Series/1	1SC
CPS Extended Function	RPQ-P82535	5799-TBQ	83		3							24.GC34-1586	Series/1	1SC
CPS Extension I	RPQ-P82525	5799-TAL	55		2							24.SC34-1552	Series/1	1SC
CPS Extension II	RPQ-P82526	5799-TAQ	55		2							24.SC34-1559	Series/1	1SC
CPS Format / Print	RPQ-P82530	5799-TBA	72		3							24.SC34-1564	Series/1	1SC
CPS Indexed Access Method	RPQ-P82519	5799-TAH	144		6							24.SC34-1556	Series/1	1SC
CPS Operator Station/Debug Pack	RPQ-P82532	5799-TBB	240		10							24.SC34-1562	Series/1	1SC
-CPS Remote Job Entry	RJE	5798-NPZ	341		31							12.GB30-1134	Series/1	1SH
CPS Sort/Merge	RPQ-P82527	5799-TAT	138		6							24.SC34-1560	Series/1	1SC
CPS Standalone Disk Utilities		5719-SC2	nc									GC34-0070	Series/1	NOSC
CPS 4963 Subsystem	RPQ-P82541	5799-TCZ	312		16							24.GC34-1638	Series/1	1SC
CPS 4963/4966 Save/Restore	RPQ-P82539	5799-TDK	358		15							24.GC34-1622	Series/1	1SC
CPS 4965 Support	RPQ-P82636	5799-TEK	1000		44							24.GC34-1717	Series/1	1SE
CPS 4969 Mag Tape Subsystem	RPQ-P82621	5799-TDM	1176		59							24.GC34-0347	Series/1	1SC
CPS 4978/4979 Display Map	RPQ-P82531	5799-TBE	120		5							24.GC34-1585	Series/1	1SC
CPS 4978/4979 Display Station	RPQ-P82520	5799-TAK	168		7							24.GC34-1575	Series/1	1SC
CPS 4979 Display Station	RPQ-P82515	5799-TAE	48		2							24.SC34-1554	Series/1	1SC
CPS 4991-201 Mag Stripe Card Reader		5799-TAJ	336		14								Series/1	0SC
-Data Capture / Edit for Bar Code		5798-RHP	1815		165							12.GB30-1708	Series/1	1SX
-Data Collection Edit & Transmit		5798-RXC	1820		138							12.GB30-1552	Series/1	1SH
-Data Collection Host		5798-RDX	75									.GB30-1552	System/34 to S/1	1SH
EDX Advanced Remote Job Entry	ARJE	5719-RJ1	1050		66							GC34-0458	S/1+MVS, VM, DDS/VSE	1SX
EDX Basic Supervisor & Emul Ver 5.2		5719-X55	2200		158							GC34-0099	Series/1	1SM
EDX Basic Supervisor and Emulator Ver. 4		5719-X54	1900		141								Series/1	1SX
EDX Chain Pharmacy	Medi-CAL	5798-RGD	2420									.GB30-1699	Series/1	1SX
EDX COBOL Compiler & Resident Libr V 2		5719-CB5	4710		174							GC34-0388	Series/1	1SX
EDX COBOL Host for Series/1	RPQ-P82647	5799-TEL			1535							24.GC34-1720	Series/1	1SE
EDX COBOL Transient Library Version 2		5719-CB6	601		21							GC34-0389	Series/1	1SX
-EDX Communication Controller		5798-ZZF	3025		275							12.GB30-1579	S/38,34,5280,370	1SX
EDX Communications Facility		5798-ZZC	968		44							36.GB30-1307	Series/1	1SH
EDX Communications Facility - Airlines		5798-ZZE	1210		55							24.GB30-1550	Series/1	1SX
EDX Communications Facility Version 2.1		5719-CF2	2500		178							L230-103	5719-HD2	1SH
EDX Communications Upgrade from Version1		5719-CF2/01	300										9765	1SH
EDX Controlled Access System Software/2		5796-RNP	9350									.G320-9156	Series/1	2SX
EDX Data Backup with Compression		5798-RCH	275									.GB30-1555	Series/1	1SX
EDX Data Collect Interactive	RPQ-P82600	5799-TDE	1425		31							GC34-1652	Series/1	1SC
EDX Data Entry	SIDES	5796-ZDF	6600		300							.GB30-1983	Series/1	1SX



Program Title	Short Name	Number	OTC	ILC	MLC	DSO	DSI	DSH	HLP	MHL	Mo	MoreInfo	Environment	TPLS
EDX Department Office Control System		5798-DQG	1980									.G320-0367	Series/1	15H
-EDX Direct Store Delivery System		5798-RLW	1200									.GB50-1998	Series/1	15X
EDX Energy Conservation System		5798-RAB	3585		163							24.GB30-1450	Series/1	15H
EDX Energy Management - Supermarkets		5796-RJT	660									.GB30-1847	Series/1	15X
EDX Energy Mgt - Optional Source Code		5796-RJT/02	308										3014	15H
EDX Energy Mgt - Pragen System		5796-RJT/04	65										2031	15H
EDX Energy Mgt - Pragen System		5796-RJT/05	231										2032	15H
EDX Energy Mgt - Source Code for Interfc		5796-RJT/03	30										3015	15H
-EDX File Creation/Maintenance Utilities		5798-RBL	550		50						12.GB30-1496		Series/1	15X
EDX General Purpose Automation Executive		5798-RCZ	6300		287						24.GB30-1565		Series/1	15H
EDX High-Level Language Transaction		5798-RJF	660								.GB30-1896		Series/1	15X
EDX Host / Communications Facility		5668-979		562	215						.GH20-2485	05/VS, D05/VSE, CICS		15X
EDX Indexed Access Method Version 2.1	IAM	5719-AM4	1150		55						SC34-0771		Series/1	15M
EDX Indust Terminals - Transaction Test		5798-RRD	1980								.GB30-2332		Series/1	15X
EDX Interface Code ( Com-Trol ) FMS-2000		5796-RJT/01	220								.GB30-1847		2019	15H
-EDX Laboratory Automation		5798-RHB	3960		300						12.GB30-1688		Series/1	15X
EDX Macro Assembler		5719-ASA	888		22								Series/1	15C
EDX Macro Library Version 4		5719-LM8	3635		231								Series/1	15X
EDX Macro Library Version 5.2		5719-LM9	4000		286						GC34-0099		Series/1	15L
EDX Macro Library/Host Version 4		5740-LM5	5010		381								Series/1	15X
EDX Macro Library/Host Version 5.2		5740-LM6	5500		393						GC34-0099		Series/1	15L
+EDX MAP tm Application Server		5719-XT1	4500		321						SL23-0150	XHCS		15M
EDX Math & Functional Subroutine Library		5719-LM3	502		12						GC34-0137		Series/1	15C
-EDX Multileaving RJE	MRJE	5796-RHJ	1485								.GB30-1762		Series/1	15X
EDX Multiple Terminal Manager Version 2	MTM	5719-MS2	727		28						GC34-1700		Series/1	15X
+EDX Network Definition Utility 1.0		5719-XT5	1950										Series/1	15M
EDX Pascal	RPQ P82658	5799-TER	3900		208								Series/1	15X
EDX PL/I Compiler & Resident Library		5719-PL5	7425		202						GC34-0145		Series/1	15C
EDX PL/I Transient Library		5719-PL6	1370		37						GC34-0146		Series/1	15C
EDX Point of Sale - Hospitality		5710-D02	19900								.GB30-2499		Series/1	25H
+EDX Primary SNA 1.0		5719-XT4	2995		214								Series/1	15M
EDX Prog Prep Upgrade from Version 4 to5		5719-XX6/01	275										9783	15L
EDX Program Preparation Facility V 5.2		5719-XX6	3200		229						GC34-0099		Series/1	15L
EDX Program Preparation Facility Ver. 4		5719-XX5	2925		186								Series/1	15X
EDX PXS Development Support Version 3		5796-REE			85						12.GB30-1600		Series/1	15H
EDX Query	QUERY	5719-XR1	792		28						GC34-0457	5719-MS2		15X
EDX Remote Manager 1.2		5719-RM1	2000		133						GL23-0138	DSX+HCF+NCCF+NPDA		15M
-EDX S/1 to 3660 Communications System		5796-PTP	1210								.G320-9149		Series/1	15X
EDX Sort/Merge		5719-SM2	360		12						GL23-0015		Series/1	15X
EDX Store Item Management		5798-RTE	1000								.GB30-2405		Series/1	15H
EDX Store Item Receiving System		5719-DSD	1600								.SB30-7013	COBOL+5719-TR1		25E
EDX Subscript		5796-ZDC	2100								.GB30-1909		Series/1	EDX
EDX Support - Programmable Cycle		5798-RHH	792		60						12.GB30-1760	S/1,RPQ-D022d8		15X
EDX System/370 Channel Attachment		5719-CX1	2820		112						SC34-1701		Series/1	15E
EDX Systems Network Architecture	SNA	5719-SX1	2005		75						SC34-0402		Series/1	15X
EDX Systems Network Architecture RJE	SNA	5719-SX2	1000		34						SC34-0402		Series/1	15X
+EDX Systems Network Architecture Ver 2.0		5719-XX9	2500		180						SC34-0773		Series/1	15M
EDX Telephone Message Management System	TMMS	5799-TFY	19971								GH36-0250		Series/1	15H
-EDX Time, Attendance and Scheduling Syst		5796-RNL	2300								.GB30-2098		Series/1	15X
EDX TMMS/ROLM CBX 9000 Interface		5799-THK	6420										TMMS	15H

Program Title	Short Name	Number	OTC	ILC	MLC	DSQ	DSI	DSH	MLP	MML	Mo	MoreInfo	Environment	TPLS	
EDX to Allen-Bradley (R) Controllers		5719-THC	5000									GC34-0099	5719-CF1	15H	
EDX to General Electric Series 6 tm Supt		5719-THD	5000									GC34-0099	5719-CF1	15H	
EDX to Gould Modicon MICRO tm Controllers		5719-THB	5000									GC34-0099	5719-CF1	15H	
EDX to Texas Instruments (R) Controllers	5TI, TI1520	5719-THA	5000									GC34-0099	5719-CF1	15H	
EDX Transaction Processing System 1.2		5719-TRI	2950									SC34-0605	Series/1	15M	
EDX Upgrade Version 4 to 5		5719-XS5/01	300										9782	15L	
EDX Utilities Version 2		5719-UT4	1135		27							GC34-0354	Series/1	15C	
EDX Videotex System SVS/1	RPQ-P82696	5799-TFN	13750									G520-3992	Series/1	15X	
EDX X.25 / HDLC Communications Support	X.25/HDLC	5719-HD2	2750		162							GC09-1026	EDX Version 4	15X	
EDX Yale ASCII Communication Sys II		5796-RKJ		407	137						24	GB30-1901	Series/1	15X	
-EDX 3101 Full Screen Subroutines		5798-RJW	269									GB30-1845	Series/1	15X	
Energy Conservation System II		5798-RLD	4680									GB30-1912	Series/1	15X	
Energy Facility Control Power Mgmt	FC/PM1	5719-U11	6515		196						48	GC34-0063	Series/1	15C	
Energy Facility Control Power Mgmt	FC/PM2	5719-U12	9900		325						48	GH30-0094	Series/1	15C	
Energy Facility Control Power Mgmt	FC/PM4	5719-U13	12980		390						48	GH30-0500	Series/1	15C	
Energy Facility Control Power Mgmt	FC/PM2M	5719-U14	4840		160						48	GH30-0094	Series/1	15C	
Energy Facility Control Power Mgmt	FC/PM4M	5719-U15	6050		198						48	GH30-0500	Series/1	15C	
Energy Special Feature	FC/PM3	5719-U14/01	2740		90						48	GH30-0094	6000,6001	15C	
Energy 3 Special Feature	FC/PM3	5719-U12/01	2740		90						48	GH30-0094	6000,6001	15C	
Event Driven Executive Communic Ver 1.2	EDX/CF	5719-CF1	2200		67							GL23-0070	Series/1	15X	
Event Driven Executive Version 5.2	EDX	5719-XJ5	750									GC34-0099	Series/1-PC (4950)	15M	
FORTRAN IV Compiler & Obj Sup Lib Ver 2		5719-FO2	950		22							GC34-0306	EDX/RPS	15C	
FORTRAN IV Realtime Subobj Lib Ver 2		5719-F04	351		9							GC34-0140	RPS	15C	
-In-Store Data Communication Facility		5796-BDL	858									G320-9129	Series/1	15X	
Industrial Terminals- Acquisition & Tran		5798-RRD/01	1650										3036	15M	
Integrated Publishing System		5796-BDQ	1100									G320-9128	Series/1+5796-BDP	15X	
-Intelligent Data Entry System	IDES	5798-NPY	759		69							12	GB30-1134	Series/1	15H
-Intelligent Data Entry System II	IDES II	5798-NXQ	2615		119							24	GB30-1352	Series/1	15H
Intelligent Terminal Subsystem		5798-NLG			126							12	GB30-1032	Series/1	15H
Intelligent Workstation Support 3101 Emu	RPQ-Pxxxxx	5799-TGC	150									GC34-0545	PC/XI to S/1 to S/370	05X	
Plant Auto Comm Sys/Mod Transfer Facilit	PACS/MTF	5798-RWN	1900									G320-0836	MVS+VTAM+EDX on S/1	15H	
-Point-of-Sale Data Collection & Distrib		5798-NYA	3110		283							12	GB30-1397	Series/1	15H
Process Development System		5798-DLA	2850										GB30-2004	Series/1	15X
Realtime Programming System Version 7.2		5719-PC7	7000		500								GC34-0615	Series/1	15M
Realtime Programming System Version 7.2		5719-PJ7	2800										GC34-0614	Series/1-PC (4950)	15M
RPS Address Translation Version 3	RPQ P82585	5799-TBY	180		3								Series/1	05C	
RPS ADS Additional Languages (per each)		5719-U21/02	1060		70								4000,5000	15H	
RPS ADS Version 2 Upgrade from Version 1		5719-U21/01	2675											15H	
RPS Advanced Remote Job Entry	ARJE	5719-RJ6	1050		36								GC34-0459	Series/1	15X
RPS Audio Distribution System	ADS	5719-U20	12700		480								G580-0363	5719-PC5,-PL4	15F
RPS Audio Distribution System Version 2	ADS	5719-U21	15200	1850	1015								G520-1060	Series/1+PL/I	15H
RPS Client Prospect File		5710-RTK/01	5170		235								2105,2112	15X	
RPS COBOL Compiler & Resident Libr V 2		5719-CB7	4710		174								GC34-0390	Series/1	15X
RPS COBOL Transient Library Version 2		5719-CB8	601		21								GC34-0391	Series/1	15X
RPS Communications Manager Version 2		5719-CM2	5550		413								Series/1+5719-A56	15X	
RPS Data Entry System	SIDES	5796-ZDE	6600		300								GB30-1983	Series/1	15X
RPS Expanded Estate Planning		5710-RTK/03	1210		55								2107,2114	15X	
RPS Indexed Access Method Version 3	RPQ P82570	5799-TCB	420		7								Series/1	05C	
RPS Indexed Access Method Ver 2	IAM-V2RPS	5719-AM2	1150		55								GC34-0395	Series/1	15X
RPS Job Stream Processor	RPQ-P82635	5799-TEC	535		13								GC34-0398	Series/1	15F

Program Title	Short Name	Number	OTC	ILC	MLC	DSO	DSI	DSM	HLP	MML	Mo	MoreInfo	Environment	TPLS
RPS Letter Writer Version 2	RPQ-P82667	5799-TEY	1200		114						12	GH30-0713	Series/1	15E
-RPS Life Agency System - Common Base		5710-RTK	880		40							.GB30-2424	Series/1	15X
+RPS MAP 'm Communications Server		5719-XT2	9500		679							SL23-0148	XHCS	15M
RPS Mathematical & Functional Subroutine		5719-LM2	502		12							GC34-0138	Series/1	15C
RPS Multiple Terminal Manager Version 3	MTM	5719-MT1	750		36							GC34-0456	Series/1	15X
RPS Multiprocessing with Command Language	MPF	5719-PC6/01	5000		325							GC34-0471	9682,9683	15X
+RPS Office Connect 1.0		5719-XT3	6600									GC09-1116	Series/1	1UM
RPS Packet Network Support	RPQ-P10008	5799-TCP	2490		64								Series/1	15E
RPS Pascal	RPQ P82659	5799-TEQ	3900		208								Series/1	15X
RPS PC Connectivity - Common Sign & Menu		5710-RTJ	550									.GB30-2428	5799-TGC+PC	15X
RPS PC Connectivity - Printer Emulation		5710-RTJ/01	385										2110	15X
RPS PL/I Compiler & Resident Lib Ver 2		5719-PL2	7425		202							GC34-0281	Series/1	15C
RPS PL/I Transient Library Version 2		5719-PL4	1370		37							GC34-0282	Series/1	15C
RPS Prog Comm Subsys Extend Exec Support		5719-CS2	1200		34							GC34-0186	Series/1	15X
RPS Prog Comm Subsys Preparation Facil		5719-CS0	523		12							GC34-0183	Series/1	15X
RPS Program Preparation Subsystem Ver 6	PPS	5719-AS6	5265		273							GC34-0461	Series/1	15X
RPS Program Preparation Subsystem 7.2		5719-AS7	6600		472							GC34-0614	Series/1	15M
RPS Query	QUERY	5719-XR2	792		28							GC34-0457	5719-MT1	15X
RPS Remote Management Utility	RPQ-P82597	5799-TDH	420		7							GC34-1663	Series/1	15C
RPS Remote Manager		5719-RM6	2000		133							DSX+HCF+NCCF+NPDA		15X
RPS S/370 Host COBOL for Series/1	RPQ-P82648	5799-TEP			1535						24	GC34-1721	Series/1	15E
RPS Sales Proposals and Illustrations		5710-RTK/02	2530		115								2106,2113	15X
RPS SNA Remote Management Utility	RPQ-P82639	5799-TEF	220		9							GC34-1711	Series/1	15E
RPS Sort/Merge		5719-SM1	315		10							GC34-0239	Series/1	15X
RPS Transaction Processing System 1.2		5719-TR6	2950									SC34-0603	Series/1	15M
RPS Ver 4 with Command Language		5719-PC4	3230		79							GC34-0202	Series/1	15C
RPS Ver 4 without Command Language		5719-PC4/01	2475		60							GC34-0202	9572,9573	15C
RPS Ver 5 with Command Language		5719-PC5	4940		187							GC34-0351	Series/1	15X
RPS Version 6		5719-PC6	7500		509							GC34-0471	Series/1	15X
RPS Version 6 - Host Program Prep	RPQ P82725	5799-BNA	8000		800							GA34-0535	MVS	15X
RPS X.25 / High-Level Data Link Control	X.25/HDLC	5719-HD1	2500		158							GC09-1026	Series/1	15X
Scientific Subroutine Package	SSP	5798-NYD	800									.GB30-1563	Series/1 + FORTRAN	15X
Series/1 Input/Output Executive Ver 1.1		5719-EM1	650									SC34-0726	EDX or RPS/S/1-XT/AT	15M
Series/1 Interactive Executive	IX	5719-UNI	6500									GA34-0298	4956 Processor	15L
Series/1 Terminal Interface (to VM/IX)	STIPS	5799-BXL	3400									GH20-6410	VM/IX+FDX ASCII term	35E
Series/1-PC Connect		5719-CN1	400									6520-0102	RPS and DOS	15L
-Specialized Terminal Interface Processor		5798-RBQ	2900		132						24		Series/1	15H
System/370 Channel Attachment		5719-CA1	1305		35							GC34-0217	Series/1	15X
-System/38 to S/1 Communication Utility		5798-RDY	605		55							12.GB30-1579	System/38	15H
-Text Entry & Edit Facility		5798-RAR	3350		303							12.GB30-1470	Series/1	15X
Touch-Tone - Audio Support		5798-NXX			201							12.GB30-1350	Series/1	15H
-Universal Billing - Host	RPQ P82613	5799-TDT	4580		205								Series/1	05C
-Universal Billing - Site	RPQ P82612	5799-TDR	1875		84								5799-TDT	05C
*Using EDX and EDL (Computer Based Trng)		7732-907	varies									SR20-8720	Series/1	V05C
-Virtual Basic Supervisor - Waterloo		5798-RBY	682		31						36	GB30-1466	Series/1	15H
Virtual CPU - Series/1		5798-DMP	3740									.GB21-3064	VM/CMS	15X
Virtual Machine Facility/370 for S/1		5798-RDR	8710		792							12.GB30-1590	Series/1	15H
VM Interface Program for TCP/IP		5798-DRG	18700		850							.G320-9219	VM+EDX/RPS/DACU	15H
Waterloo HOSTCM		5793-AAN/03	330										2003	05F
Waterloo PC Network Channel Attached		5793-AAN/01	nc									.GB30-2411	2001	NO5F

<u>Program Title</u>	<u>Short Name</u>	<u>Number</u>	<u>OTC</u>	<u>ILC</u>	<u>HLC</u>	<u>DSO</u>	<u>DSI</u>	<u>DSM</u>	<u>HLP</u>	<u>HML</u>	<u>Mo</u>	<u>MoreInfo</u>	<u>Environment</u>	<u>TPLS</u>
Waterloo PC Network Standalone Server		5793-AAN	1650									.GB30-2411	DOS+RPS on Series/1	0SF
Waterloo PC Network VM Server		5793-AAN/02	1650									.GB30-2411	2002	0SF
Yale ASCII Communications - Host Loaded		5798-RRJ	4070									.GB30-2317	VM to EDX to 4994	1SX
Yale ASCII Terminal Communications		5796-RBT	3450					157				24.GB30-1509	Series/1	1SH
<del>3101 Full Screen Control Program Support</del>		<del>5798-RFF</del>	<del>310</del>									<del>.GB30-1639</del>	<del>Series/1</del>	<del>1SH</del>

Program Title	Short Name	Number	OTC	ILC	MLC	DSO	DSI	DSM	MLP	HML	Mc	MoreInfo	Environment	TPL
Cache RMF Reporter		5798-DQD	1210									.G320-0362	DF/DS,DFP+RMF+PL/I	15X
-DASD Seek Simulator		5798-CTD	1650									.GB21-2217	OS/VS	11H
Data Extract Non-Relational Feature		5668-788/01			750			563						25M
Data Extract Relational Feature		5668-788/02			375			500						25M
+Data Extract 2.1	DXT	5668-788			300			225				GC26-4241	VM,MVS,XA	25M
Data Facility Data Set Services 2.2	DFDSS	5665-327			215			161	38	61		GC26-4123	Data Facility Product	15K
+Data Facility Hierarchical Storage Mgr	DFHSM2.2.1	5665-329			800			600	141	226		SC33-0223	MVS,XA	15K
Data Facility Product	DFP	5665-295			1590	600		1191	450	186	298	GC26-4050	MVS	25K
-Data Facility Product Version 1.1	DFP	5665-284			1590	600		1191	450	93	149	GC26-4007	Superceded by Ver 2	25K
+Data Facility Product Version 2.2	DFP	5665-XA2			1025			769	349	567		GC26-4142	XA	25K
-Data set Migration and Planning Aid		5798-DCX	1745		159							12.GB21-2614	OS/VS,MVS/XA	15H
Device Support Facilities for Standalone	ICKDSF	5747-DS1	nc									GC26-3946	3340,3344,3350,3380	NOS
Device Support Facilities for VSE 1.8	ICKDSF	5747-DS2	nc									GC26-3946	3340,3344,3350,3880	NOS
Device Support Facility for MVS/XA 1.8	ICKDSF	5655-257	nc									GC26-3946	3340,3344,3350,3380	NOS
Direct Access Storage Device Migration		5668-002	1450						19	30		GC26-3972	OS/VS+3375/3380	0LY
Hierarchical Storage Manager	HSM	5740-XXB			579			434	129	206		GH35-0007	Succeeded by DFHSM	15K
HSM Maintenance / Recovery Utilities		5796-BDY	2000									.G320-9162	MVS+5740-XXB	15H
Mass Storage System Extensions 3850	MSSE	5740-XYG			327			245	54	86		GH35-0034	OS/VS,MVS/XA	15K
Mass Storage Table Maintenance 3850	MSSTMP	5796-PHY	7150		279							.G320-5742	OS/VS,MVS/XA	11X
-Mass Storage Trace SMF Correlation Aid		5796-PJX	3010		137							24.G320-5810	OS/VS,MVS/XA	11H
MSVIZAP for the 3850	RPQ-P87000	5799-HPK	nc										MVS/VSI	NOS
Storage Device Migration Aid	SDMA	5796-PPP	6195		279							.G320-5714	OS, OS/VS, MVS/XA	11X
-Tape Automation - Production Environment		5798-DGB	2520									.GB21-2828	DOS/VSE	15H
Tape Library Control System		5785-EAW	8580		390							.G320-6652	MVS	15H
VM HPO Support for 3880		5798-DRJ	2200									.G320-9225	CMS+HPO	15H
VSAM and Access Method Services Course	VSAM AMS	5798-DAN	2055									.GB21-2518	I15, I1PS	1EH
VSAM File Definition Aid		5798-DPG	2200									.G320-9170	MVS,VSE	15H
VSE VSAM Fast Backup Restore Feature		5746-AM2/02			33			30	7	11		GC24-5190	6091,6506	15C
VSE VSAM Space Management for SAM		5746-AM2/01			44			40	9	14		GC24-5143	6074,6507	15K
Waterloo and MATCOM Languages for VM		5793-AAP/01	6600										9504	05E
231x Emulator on FBA Devices		5747-SA1	nc										DOS/VSE	NOSJ
3380 / 3375 Support PRPQ		5799-BFF			3525	1175		2640	881	55	88	GC26-4001	MVS+5740-AM6	15K
-3850 Trace Interpretation Package		5785-DBW	3300		250							.GB21-2541	MVS	11H

<u>Program Title</u>	<u>Short Name</u>	<u>Number</u>	<u>OTC</u>	<u>ILC</u>	<u>MLC</u>	<u>DSO</u>	<u>DSI</u>	<u>DSH</u>	<u>MLP</u>	<u>MHL</u>	<u>Mo</u>	<u>MoreInfo</u>	<u>Environment</u>	<u>TPLS</u>
+4680 Supermarket Application		5669-032	2250									GC20-3371	4680 05 1.2	1SM
+4680 Supermarket Application Sourcecode		5669-032/01	10000									GC20-3371	4643,7898	1SM

Program Title	Short Name	Number	OTC	ILC	MLC	DSO	DSI	DSM	MLP	MML	Mo	MoreInfo	Environment	TPLS
Accounts Payable	DFAS II	5726-M43	2675		108	2010						.GH30-0221	System/34	11X
Accounts Payable	CMAS/34	5726-M68	3200		131	2400						.GH30-0707	System/34	11D
Accounts Payable	BMAS	5726-XBC	1700									.G280-0231	System/34	11X
Accounts Payable - Construction SPM	CMAS/34	5726-M62	1625		78							.GH30-0707	System/34	11C
Accounts Payable - Mfg	MMAS	5726-M33	1260		59							.GH30-0220	System/34	11C
Accounts Payable Distributors	DFAS	5726-D68	1260		59							.GH30-0219	System/34	11C
Accounts Payable Online		5798-RFT	2055		187						12	.GB30-1670	System/34	15X
Accounts Receivable	MAPICS	5726-M44	2675		108	2010						.GH30-0221	System/34	11X
Accounts Receivable	BMAS	5726-XBA	1700									.G280-0230	System/34	11X
Accounts Receivable - Mfg	MMAS	5726-M34	1310		62							.GH30-0220	System/34	11C
Accounts Receivable Distributors	DMAS	5726-D4B	1650		86							.GH30-0093	System/34	11X
Accounts Receivable Distributors	DMAS II	5726-D42	2675		108	2010						.GH30-0185	System/34	11X
Accounts Receivable Food Distributors	FDMAS	5726-D66	1815		95							.GH30-0156	System/34	11X
Accounts Receivable Hospital	HFMS	5726-H12	1375		70							.GH30-0405	System/34	11D
Accounts Receivable Lumber Dealers	LDMAS	5726-D4F	1650		86							.GH30-0166	System/34	11X
Administrative Control System		5798-NHT	3465		315						12	.GB30-1318	System/34	15H
Advance Earned Income Credit Interfaces		5798-NYQ	575									.GB30-1395	System/34, System/32	15H
All Items File Translation Facility 3694	CHX/GS	5798-RFJ	1210		110						12	.GB30-1645	System/34+5748-F53	15X
Application Support for 3624 CTF		5798-RDP	9680		880						12	.GB30-1626	System/34	15X
Assembler & Macro Processor		5726-ASJ	4000		165	3000		124				.GC21-7840	System/34	15X
Auto Dealership Mgmt - Accounting		5796-ZEJ	11000									.GB30-2107	System/34	15X
Auto Response		5799-BFA	nc										System/34	N05X
Automated Response Line Call Handlg		5798-RRG	5500		250							.G320-9172	System/34	15X
Bar Code Print for MAPICS		5798-RHN	825		165						06	.GB30-1706	System/34	15X
BASIC		5726-BAJ	1900		76	1425		57				.GC21-7841	System/34	15X
BASIC Subset	HSU	5726-BA2	390									.GC21-9035	System/34	15A
Batch to SSX/VSE Conversion Aid		5785-KAJ	407									.G320-9191	SSX/VSE	15X
BICARSA Online		5798-RFR	5445		495						12	.GB30-1667	System/34	15X
Billing	BMAS	5726-X88	1700									.G280-0229	System/34	11X
Billing Distributors	DMAS	5726-D4A	2585		134							.GH30-0093	System/34	11X
Billing Distributors	DMAS II	5726-D4I	3885		157	2910		118				.GH30-0185	System/34	11X
Billing Food Distributors	FDMAS	5726-D65	2640		137							.GH30-0156	System/34	11X
Billing Lumber Dealers	LDMAS	5726-D4E	2400		125							.GH30-0166	System/34	11X
Business Charting Program		5799-BJH											System/34	05X
Business Graphics Utilities	RPQ P84062	5799-BTA	1550									.G580-0454	System/34	15X
Business Report Application Development	BRADS	5726-BR1	1650									.GB30-2554	System/34	11X
Calendar Management System		5798-NZB	3815		347						12	.GB30-1401	System/34	15H
Capacity Requirements Planning	MAPICS	5726-M4G	5615		228	4215		171				.GH30-0221	System/34	11X
Central Site Maintenance		5798-RBD	505		101						06	.GB30-1494	System/34	15H
Check Processing / Communications		5798-RKH	440									.GB30-1851	S/34 + 5748-F53	15X
Check Processing / Sort 3694	CHX/GS	5798-RKG	440									.GB30-1853	S/34 + 5748-F53	15X
Client Account & Financial Report Sys II	CAFRS	5726-C22	7400		280	5550		196				.GH30-0230	System/34	11X
Client Account & Financial Reporting Sys	CAFRS	5726-C21	4100		182							.GH30-0230	System/34	11C
CMAS File / Record Definitions		5798-RQP	330									.GB30-2136	Retrieval/34	15X
COBOL		5726-CB1	3900		160	2925		120				.GC21-7745	System/34	15X
COBOL ANS/68	RPQ-P84019	5799-AHR			120			90				.GC21-7784	System/34	15X
COBOL Conversion Aid from NCR 8200		5798-NYR	990									.GB30-1433	System/34	05H
Coll & Univ Business Sys- Financial Acct		5796-RHT	6380									.GB30-1747	System/34	15X
Coll & Univ Business Sys- Student Aid		5796-RHR	3960									.GB30-1747	System/34+5796-RHM	15X
Coll & Univ Business Sys- Student Record		5796-RHM	6380									.GB30-1747	System/34	15X

<u>Program Title</u>	<u>Short Name</u>	<u>Number</u>	<u>OTC</u>	<u>ILC</u>	<u>MLC</u>	<u>DSO</u>	<u>DSI</u>	<u>DSM</u>	<u>MLP</u>	<u>HML</u>	<u>Mo</u>	<u>MoreInfo</u>	<u>Environment</u>	<u>TPLS</u>
Committed Cost / Cost History Feature	CMAS/34	5726-M68/01	1730		70	1300		51				.GH30-0707	6021,6026,6592,6526	I1D
-Computer-Assisted Training II		5798-NZA	715		143							06.GB30-1481	System/34	1EH
Customer Information File Banking	CIF	5726-F11	4000		210							.G360-0050	System/34	I1X
-Data Base Techniques		5798-NKQ	755		151							06.GB30-1170	System/34	1SH
-Data Collection Host		5798-RDX	75									.GB30-1552	System/34 to S/1	1SH
Data Collection System Support Mfg	MAPICS	5726-M4A	4115		167	3110		125				.GH30-0221	System/34	I1X
-Dealer Parts Inventory Management		5798-RBG	6930		315							24.GB30-1498	System/34	1SH
Demand Deposit Accounting Banking	DDA	5726-F12	3600		188							.G360-0050	System/34	I1X
-DFAS II File / Record Definitions	DFAS-II	5798-RQN	330									.GB30-2140	Retrieval/34	1SX
Distributed Disk File Facility	RPQ-P84037	5799-BCP			114			86				GC21-7872	System/34	1SX
DMAS II Acct Rec Enhance - Food Distrib		5798-NXZ			138							12.GB30-1340	System/34	1SH
DMAS II Billing Enhance - Food Distrib		5798-NXY			207							12.GB30-1340	System/34	1SH
-DMAS II File / Record Definitions		5798-RQQ	330									.GB30-2132	Retrieval/34	1SX
Document Control Section Edit 3694	CHX/GS	5798-RFL			100							12.GB30-1645	System/34+5748-F53	1SX
DPPX / DMS Execution Facility		5660-265	493		23	420		16	15	23		.GH20-2438	DPPX/DMS	1SK
-Employee Management System		5796-ZFP	11000									.GB30-2276	System/34	1SX
-Equal Employment Opportunity Report	CMAS	5798-RQK	825									.GB30-2179	System/34	1SX
Executive Data Link to PC	MAPICS	5798-RRQ	2750									.GB30-2392	System/34+PC	1SX
Executive Data Link to PC (5250 Emulate)	CMAS	5798-RRP	2750									.GH30-9029	CMAS/34	1SX
Fastdraft Drawing Mgt to MAPICS Bridge		5796-RRN	2350										System/34+7361	1SX
File Support Utilities for PC & XT	RPQ-P84057	5799-BNZ	300									GC21-7994	System/34	0SX
Financial Applications Bridge - Retail	RMAS	5726-XA7	5400		188							24.GH30-0136	System/34	1SE
-Financial Management System		5796-ZFL	13200									.GB30-2276	System/34	1SX
Fixed Asset Accounting & Control		5798-NQF			161							12.GB30-1156	System/34	1SH
-Fixed Asset Accounting & Control II		5798-RJH	2310									.GB30-1787	System/34	1SX
FORTRAN IV		5726-F01	5400		222	4050		166				GC21-7685	System/34	1SX
General Ledger	DFAS II	5726-M47	2675		108	2010		79				.GH30-0221	System/34	I1X
General Ledger	BMAS	5726-XBB	1700									.G280-0232	System/34	I1X
-General Ledger & Financial Acctg		5798-RFW	1815		165							12.GB30-1673	System/34	1SX
General Ledger - Construction	CMAS/34	5726-M64	1310		62							.GH30-0707	System/34	I1C
General Ledger - Construction	CMAS/34	5726-M67	2360		98	1770		73				.GH30-0707	System/34	I1D
General Ledger - Mfg	MMAS	5726-M37	1260		59							.GH30-0220	System/34	I1C
General Ledger Distributors	DFAS	5726-D6A	1260		59							.GH30-0219	System/34	I1C
General Ledger/Accounts Payable Hospital	HFMS	5726-H14	2090		108							.GH30-0407	System/34	I1D
-Information Exchange with Displaywriter		5798-RJY	660									.GB30-1857	S/34+Displaywriter	1SX
Installment Loan Accounting Banking		5726-F14	4100		213							.G360-0050	System/34	I1X
Interactive Communications Feature	ICF	5726-SS1/01	3700		151	2775		114				G580-0295	6000,6511,6558,6509	1SA
-Interactive Student Records		5798-NHF	2075		189							12.GB30-1300	System/34	I1H
Inven/34 - Computer-Assisted Inventory		5798-NHX			488							12.GB30-1102	System/34	1SH
Inventory Accounting	BMAS	5726-XB9	1700									.G280-0233	System/34	I1X
Inventory Control Distributors	DMAS	5726-D4C	2365		122							.GH30-0093	System/34	I1X
Inventory Control Distributors	DMAS II	5726-D43	3515		143	2640		108				.GH30-0185	System/34	I1X
Inventory Control Food Distributors	FDMAS	5726-D67	2365		122							.GH30-0156	System/34	I1X
Inventory Control Lumber Dealers	LDMAS	5726-D4G	2150		111							.GH30-0166	System/34	I1X
-Inventory Forecasting for Manufacturers	MAPICS	5798-RDC	4840		440							12.GB30-1532	System/34	1SH
Inventory Management	MAPICS	5726-M45	3685		143	2640		108				.GH30-0221	System/34	I1X
Inventory Management - Mfg	MMAS	5726-M35	1575		77							.GH30-0220	System/34	I1C
-Inventory Management System		5796-ZFQ	7150									.GB30-2276	System/34	1SX
Job Analysis System	CPM	5726-XP1	5090		207	3820		154				.GH30-0511	System/34	1SX
Job Costing - Construction	CMAS/34	5726-M61	1310		62							.GH30-0707	System/34	I1C



Program Title	Short Name	Number	OTC	ILC	MLC	DSO	DSI	DSM	MLP	HML	Mo	MoreInfo	Environment	TPLS
Job Costing - Construction	CMAS/34	5726-M66	2360		98	1770		73				.GH30-0707	System/34	11D
Link DE/RPG Compiler PRPQ		5799-BFG	nc										System/34	NOSX
Maintenance & Construction Costing System		5796-PXT	11000									.G320-0338	System/34,36+COBOL	15H
-Make-to-Schedule for Inventory Mgt	MAPICS	5798-RQR	3025									.GH30-2324	System/34	15X
-Manufacturing Order Tracking Subsystem	MAPICS	5798-RCT	570		114							06.GH30-1536	System/34	15H
-MAPICS File / Record Definitions		5798-RQL	330									.GH30-2144	Retrieval/34	15X
Material Requirements Planning	MAPICS	5726-M4B	6405		261	4800		195				.GH30-0221	System/34	11X
Medical Group Management System	MGMS	5726-H15	3900		174							.GH30-0228	System/34	11C
Medical Group Management System II	MGMS II	5726-H16	9815		374	7365		280				.GH30-0228	System/34	11X
Membership and Mailing List System		5726-K11	2950		132							.GH30-0454	System/34	11C
-MICR Program Generator		5798-RBE	759		69							12.GH30-1476	System/34	15H
Motor Freight Revenue Accounting	MFAS	5726-T21	8030		420							.GH10-0413	System/34	11X
-Mult Index Support - Disk Files		5798-NQL			69							06.GH30-1168	System/34	15H
OCL Online Procedure & Menu Cnvrnsn		5785-DFD	709									.G320-9191	System/34+CICS/SSX	15X
-Online Appointment System		5796-NZP			258							12.GH30-1440	System/34	15H
-Online Hospital Data Entry/Inquiry		5798-NRW	2350		214							12.GH30-1214	System/34	15H
-Online Reject/Reentry Check Processing		5798-NZY	550		50							12.GH30-1445	System/34	15H
-Online Student Registration		5798-NWP	4025		366							12.GH30-1312	System/34	15H
Online to CICS-RPGII Conversion Aid		5785-DFB	1015									.G320-9191	SSX/VSE	15X
Order Entry and Invoicing	MAPICS	5726-M49	3935		161	2955		119				.GH30-0221	System/34	11X
Order Entry and Invoicing - Mfg	MMAS	5726-M39	1940		94							.GH30-0220	System/34	11C
-OS/6 Communications & File Conversion		5798-NZH	785		157							06.GH30-1431	System/34,32,3	15H
Over-the-Counter Inv & Accts Rec Inquiry	DMAS II	5726-DM5	2255									.GH30-2501	System/34	15C
Patient Billing Hospital	HFMS	5726-H11	1555		82							.GH30-0404	System/34	11D
Payroll	BMAS	5726-XBD	1700									.G280-0234	System/34	11X
Payroll - Construction	CMAS/34	5726-M63	2255		109							.GH30-0707	System/34	11C
Payroll - Mfg	MMAS	5726-M32	1575		77							.GH30-0220	System/34	11C
Payroll and Labor Costing - Construction	CMAS/34	5726-M69	4250		173	3190		129				.GH30-0707	System/34	11D
Payroll Distributors	DFAS	5726-D6C	1575		77							.GH30-0219	System/34	11C
Payroll Distributors Mfg	MAPICS	DFAS II	5726-M42	3620	146	2715		109				.GH30-0221	System/34	11X
Payroll Hospital	HFMS	5726-H13	2640		137							.GH30-0406	System/34	11D
Personal Teaching Aid	PTA/34	5726-PT1	600									.G580-0534	System/34	15X
Personal Teaching Aid - Authoring	PTA/34	5726-PT1/01	1200									.G580-0534	6025	15X
-Physical Inventory Enhancement	DMAS II	5798-RBN	1110		101							12.GH30-1506	System/34	15H
PL/I Checkout Compiler		5734-PL2			575			431	7	11		GC33-0003	OS/VS/MFT/MVT/CMS	15K
Procedure Analysis & Documentation		5785-DFC	511									.G320-9191	System/34	15X
Product Data Management	MAPICS	5726-M46	6105		2381	65000		177				.GH30-0221	System/34	11X
Product Definition & Costing - Mfg	MMAS	5726-M36	1470		72							.GH30-0220	System/34	11C
Production Control and Costing	MAPICS	5726-M41	6405		261	4800		195				.GH30-0221	System/34	11X
Production Status and Costing Mfg	MMAS	5726-M31	1575		77							.GH30-0220	System/34	11C
Programmer & Operator Aid	RQ-P84051	5799-BHH	700									GC21-7955	System/34	15X
-Proof-of-Deposit / Transit		5798-NHH	2075		189							12.GH30-1141	System/34	15H
Public Budgeting & Accounting Appl Govt	PBA	5726-G21	12230		468	9175		350				.GH30-0229	System/34	11X
Public Utility Customer Service		5798-NQG	3465		315							12.GH30-1159	System/34	15H
Purchasing Distributors	DMAS II	5726-D46	7455		303	5590		226				.GH30-0185	System/34	11D
-Retail Inventory - Planning & Mdse Syst		5796-ZDN		10990	2195							12.GH30-2042	System/34	15X
-Retail Pharmacy System		5798-NRN	7290		663							12.GH30-1226	System/34	15H
Retrieval/34		5798-RND	1320									.GH30-2083	System/34	15X
Revenue Accounting Construction A/R	CMAS/34	5726-M6A	3725		151	2795		112				.GH30-0707	System/34	11D
RPG II		5726-RG1	1300		52	975		39				GC21-7669	System/34	15X

Program Title	Short Name	Number	OTC	ILC	MLC	DSQ	DSI	DSM	MLP	MML	Mo	MoreInfo	Environment	TPLS
RPG II Subset		5726-RG2	270									GC21-9034	System/34	15A
Sales Analysis	MAPICS	5726-M48	3515		143	2640		108				.GH30-0221	System/34	11X
Sales Analysis - Mfg	MMAS	5726-M38	1575		77							.GH30-0220	System/34	11C
Sales Analysis Distributors	DMAS	5726-D4D	2150		111							.GH30-0093	System/34	11X
Sales Analysis Distributors	DMAS II	5726-D44	3350		125	2515		88				.GH30-0185	System/34	11X
-Sales Analysis Enhancements	DMAS II	5796-RJL	550									.GB30-1810	System/34	15X
Sales Analysis Food Distributors	FDMAS	5726-D68	2150		95							.GH30-0156	System/34	11X
Sales Analysis Lumber Dealers	LDMAS	5726-D4H	2150		111							.GH30-0166	System/34	11X
Savings Accounting Banking		5726-F13	3550		184							.G360-0050	System/34	11X
-Strategic Profit Model		5798-NZR	315									.GB30-1424	System/34	15H
Student Accounting School Administration	SAS	5726-E32	3410		167							.GH30-0414	System/34	11X
-Student Administration System		5796-ZFN	14300									.GB30-2276	System/34	15X
Student Records School Administration	SAS	5726-E31	3095		151							.GH30-0410	System/34	11X
Student Scheduling School Administration	SAS	5726-E33	4095		200							.GH30-0415	System/34	11X
Supermarket Communication Sys for 3660		5798-NTL	230								12	.GB30-1247	System/34	15H
-Sys/3 to Sys/34 Conversion Aid		5798-NTE	474									.GB30-1231	System/34	05H
System Support Program	SSP	5726-SS1	4500		187	3375		140				GC21-7702	System/34	15X
System Support Program Subset Preconfig	SSP	5726-SS2	900									GC21-9032	System/34	15A
System/34 to System/36 Migration Aid		5727-MA1	250									GC21-9058	System/34+System/36	01X
System/34 to System/38 Conversion		5714-CV5	1625									.GH30-0460	System/38	05D
-System/34 to 5280 Report Transfer		5798-RDB	330									.GB30-1581	System/34	15X
Table Preparation Facility 3694	CHX/GS	5798-RFK			100						12	.GB30-1645	System/34+5748-F53	15X
Text Editor	RPQ-P84046	5799-BFP	1150									.GH30-0245	System/34	15E
-Tools for Application Source Translation	TASCOT	5798-RAJ	13660		620							.GB30-2027	System/34	15X
Utilities	DFU	5726-UT1	1600		64	1200		48				GC21-7659	System/34	15X
Utilities Subset	SEU	5726-UT2	330									GC21-9033	System/34	15A
Voter Registration / Jury Selection Syst		5796-PXM	12100									.G320-0539	System/34,36+C0B0L	15H
Work Station Search Facility	MSF/34	5726-XR1	503									.G580-0212	System/34	01B
Work Station Support Subroutine	RPQ-P84034	5799-AYH			20			15				GC21-7808	System/34	15X
3270 Device Emulation BSC		5799-BEZ											System/34	05X
3270 Device Emulation on S/34		5726-EM1	5500		223	4125		167				GC21-7807	System/34	15X
3270 Device Emulation SNA		5799-BGH											System/34	05X
3600 4700 Finance Communication	FSF	5726-SS1/02	6200		254	4650		190				G580-0295	6010,6513,6557,6510	15A
401K Tax-deferred Savings Plan	MAPICS	5798-RMG	300									.GB30-3316	S/34 MAPICS Payroll	15X
4700 Online Terminal Support	RPQ-P90002	5799-BGB	1600		62							GC31-0022	System/34 and 36	15B
5224 / 5225 Advanced Printer Function	RPQ-P84045	5799-BFN	525									GC21-7922	System/34	15E
5230 Data Collection Support	DCSS	5726-M3A	1575		77							.GH30-0220	System/34	11C
5250 Emulation Convenience Kit		6092-656	745									G520-1107	PC/S/34,38	05X
5250 Emulation for the 4700	RPQ P90021	5799-BZL	1995									SC31-3588	Systems/34, 36, 38	15E
5250 Emulation Prog for PC or XT		6092-651	164									G520-3917	PC, XT+S/34,36,38	15X
+5250 Enhanced Emulation Program 2.1		6386-354	160									G570-2221	PC, XT, AT, PPC	05Z
-5250 Enhanced Emulation Upgrade to 2.1		6386-352	50									G570-2221	PC, XT, AT, PPC	05Z
+5250 Enhanced Emulation 2.1 Convence Kit		55X3-364	845									G570-2221	PC, XT, AT, PPC	05Z

Program Title	Short Name	Number	OTC	ILC	MLC	DSO	DSI	DSM	MLP	MML	Mo	MoreInfo	Environment	TPLS	
Accounts Payable	MAPICS	5727-M43	2805		163	2105						.GH30-9001	CASS	15B	
Accounts Payable	CMAS	5727-M68	3355		195	2515						.GH30-9003	CASS	15B	
Accounts Payable	MAPICS II	5727-M73	3080		154	2710						.GH30-9004	CASS	15E	
Accounts Payable	BMAS	5727-XB3	1980									.GB30-2744	System/36	15B	
Accounts Payable	BMAS	6201-869	995									.SB30-3533	System/36 PC	05G	
Accounts Receivable	MAPICS	5727-M44	2805		163	2105						.GH30-9001	CASS	15B	
Accounts Receivable	MAPICS II	5727-M74	3080		154	2710						.GH30-9005	CASS	15E	
Accounts Receivable	BMAS	5727-XB4	1980									.GB30-2722	System/36	15B	
Accounts Receivable	BMAS	6201-867	995									.SB30-3517	System/36 PC	05G	
Accounts Receivable and Collection	Attorney	5793-ABD	968									.GB30-2151	5793-AAZ+ABZ	05X	
Accts Receivable Collections Series 800	Attorneys	5793-ACL	440									.GB30-2415	S/36+5793ACH+ABZ	05H	
ACS On-Line / IPCS Integration		5796-ZHK	3300									.GB30-2258	System/36	15X	
ACS On-Line System tm		5796-ZFG	49500									.GB30-2258	System/36	15X	
All Items File Translation Facility 3694	CHX/GS	5798-RQM	1650									.GB30-2238	S/36+5748-F53	15X	
+APPC Multiple LU Support		5799-HYK	nc										System/36	5364	NOSE
+APPC Multiple LU Support	RPQ P84098	5799-HYL	nc										System/36		N15A
Application Help Aid		5798-DRC	550									.G320-9216	TMS/36	15H	
Application Support for 3624 CTF		5798-RRA	13200									.GB30-2243	System/36	15X	
Assembler and Macro Processor		5727-AS1	4800		273	4220						GC21-7893	System/36	15X	
Assembler and Macro Processor		5727-AS6	1920			1440						G580-0570	System/36 PC	05H	
Attorney Info Sys - Controller System		5793-ABZ	192									.GB30-2151	System/36	05X	
Attorney Practice - Conflict of Interest		5793-ABH	3850									.GB30-2160	5793-ABL+ABZ	05X	
Attorney Practice - Research & Retrieval		5793-ABG	6270									.GB30-2160	5793-ABZ	05X	
Attorney Practice - Statutory Dates	Docket	5793-ABF	3850									.GB30-2160	5793-ABL+ABZ	05X	
+Auto Dealer - Accounting		5796-ZNX	13600									.GB30-6013	System/36	15H	
+Auto Dealer - Contract Preparation		5796-ZPD	3550									.GB30-6013	System/36	15H	
+Auto Dealer - Customer Follow-up		5796-ZPE	3000									.GB30-6013	System/36	15H	
+Auto Dealer - Leasing		5796-ZPB	5300									.GB30-6013	System/36	15H	
+Auto Dealer - Management Reports		5796-ZPC	4100									.GB30-6013	System/36	15H	
+Auto Dealer - Parts Inventory		5796-ZNY	11800									.GB30-6013	System/36	15H	
+Auto Dealer - Parts Invoicing		5796-ZNY	5500									.GB30-6013	System/36	15H	
+Auto Dealer - Service Merchandising		5796-ZPA	8600									.GB30-6013	System/36	15H	
+Auto Dealer - Traffic Control		5796-ZPF	1200									.GB30-6013	System/36	15H	
+Auto Dealer - Vehicle Control		5796-ZPG	8600									.GB30-6013	System/36	15H	
+Auto Dealer Acctg. Upgr from 5796-ZGX		5796-ZNX/01	1875									.GB30-6013	System/36	15H	
+Auto Dealer, Cont Prep, Upg from 5796ZHD		5796-ZPD/01	50									.GB30-6013	System/36	15H	
+Auto Dealer, Cust, Upg from 5796-ZHE		5796-ZPE/01	50									.GB30-6013	System/36	15H	
+Auto Dealer, Leasing, Upg from 5796-ZHB		5796-ZPB/01	50									.GB30-6013	System/36	15H	
+Auto Dealer, Mgt Rpt, Upg from 5796-ZHC		5796-ZPC/01	50									.GB30-6013	System/36	15H	
+Auto Dealer, Parts Inv, Upg from 5796ZGZ		5796-ZNZ/01	1690									.GB30-6013	System/36	15H	
+Auto Dealer, Parts Inv, Upgr from 5796ZGY		5796-ZNY/01	1100									.GB30-6013	System/36	15H	
+Auto Dealer, Service, Upg from 5796-ZHA		5796-ZPA/01	50									.GB30-6013	System/36	15H	
+Auto Dealer, Traffic, Upg from 5796-ZHF		5796-ZPF/01	50									.GB30-6013	System/36	15H	
+Auto Dealer, Veh Ctl, Upg from 5796-ZHG		5796-ZPG/01	50									.GB30-6013	System/36	15H	
Automated Information Management		5798-DRA	1265									.G320-9215	System/36	15H	
Automotive Release/Shipping Control Syst		5796-ZKA	17600									.GB30-2480	System/36	15H	
BASIC		5727-BA1	1600		90	1405						GC21-9011	System/36	15A	
BASIC		5727-BA6	400			300						G580-0570	System/36 PC	05H	
Bid Day System	CES	5710-RTZ	1650									.GB30-2450	System/36	15H	
Billing	BMAS	5727-XB7	1980									.GB30-2700	System/36	15B	

<u>Program Title</u>	<u>Short Name</u>	<u>Number</u>	<u>OTC</u>	<u>ILC</u>	<u>MLC</u>	<u>DSO</u>	<u>DSI</u>	<u>DSM</u>	<u>MLP</u>	<u>MML</u>	<u>Mc</u>	<u>MoreInfo</u>	<u>Environment</u>	<u>TPLQ</u>
Billing	BMAS	6201-866	995									.SB30-3557	System/36 PC	05G
Business Graphics Utilities	RPQ-P84056	5799-BNM	600									G580-0571	System/36	15X
+Business Graphics Utilities/36		5727-BG1	800			704						G580-0454	S/36 (5360/2)	15A
+Business Graphics Utilities/36		5727-B06	320			240						G580-0454	S/36 PC 5364	15A
Business Report Applic Develop Syst	BRADS	5727-BR1	2225									GH30-2576	System/36	15B
Business Report Application Developmt Sys	BRADS	6201-872	1250									G280-0237	System/36 PC	05G
Capacity Requirements Planning	MAPICS	5727-M4G	5885		339	4415						GH30-9002	C.A55	15B
Capacity Requirements Planning	MAPICS II	5727-M7G	7150		357	6290						GH30-9006	C.A55	15E
Chained File DL/I Bridge		5748-XX3	14740		576							GH12-5116	D05/VS.05/VS	15B
Client Financial Management	Attorney	5793-AAZ	10830									GB30-2151	5793-ABZ	05X
Client Financial Management Series 800	Attorneys	5793-ACH	4950									GB30-2415	System/36+5793-ABZ	05H
Client Statements	Attorney	5793-ABE	423									GB30-2151	5793-AAZ+ABZ	05X
Client Statements Series 800	Attorneys	5793-ACN	220									GB30-2415	S/36+5793ACH+ABZ	05H
Client/Matter Record Management	Attorney	5793-ABL	2320									GB30-2166	5793-ABZ	05X
Client/Matter Records Mgt Series 800	Attorneys	5793-ACR	1100									GB30-2415	S/36+5793ABZ	05H
CMAS File / Record Definitions		5798-RPZ	330									GB30-2138	Retrieval/36	15X
COBOL		5727-CB6	1000			750						G580-0570	System/36 PC	05H
COBOL Compiler and Library		5727-CB1	2500		165	2200						GC21-9009	System/36	15A
-College Business Sys Financial Acctg	CUBS	5796-RQE	7150									GB30-2181	System/36	15X
-College Business Sys Student Aid & Bill	CUBS	5796-RQD	4400									GB30-2181	System/36	15X
-College Business Sys Student Records	CUBS	5796-RQF	7150									GB30-2181	System/36	15X
Committed Cost / Cost History Feature	CMAS	5727-M68/01	1815		106	1360		85				GH30-9003	4566,4586,4619,6007	15B
Communication Support Facility 3694	CHX/GS	5798-RQY	825									GB30-2238	S/36+ICF+5748-F53	15X
Community Mental Health MIS	CMHMIS	5796-PXX	7700									G320-0330	System/36	15H
Computer Assisted Training 1.2		5710-CAT	990									GB30-2233	System/36, S/36 PC	15H
Conflict of Interest Series 800	Attorneys	5793-ACQ	1650									GB30-2415	S/36+5793ACL+ABZ	05H
+Construction Inventory	CMAS	5796-ZPP	3000									GB30-6016	5727-M6X+M66	15H
Cross App - Upgrade from 5727-M4X	MAPICS II	5727-M7X/01	946			832								15E
Cross Application System Support	CASS	5727-D4A	1815		106	1360						GH30-0690	S/36,S/36 PC+DMAS	153
Cross Application System Support	CASS	5727-M4X	1815		111	1360						GH30-9002	System/36+MAPICS	15B
Cross Application System Support	CASS	5727-M6X	1650		94	1235						GH30-9003	S/36,S/36 PC,+CMAS	15B
Cross Application System Support	MAPICS II	5727-M7X	2310		115	2035						GH30-9004	System/36, S/36 PC	15E
Data Base Techniques		5798-RPQ	1100									GB30-2209	System/36	15X
Data Collection	MAPICS II	5727-M7A	4950		247	4355						GH30-9006	C.A55	15E
Data Collection System Support	MAPICS	5727-M4A	4345		251	3260						GH30-9002	C.A55	15B
Detail Sales Analysis	DMAS	5798-RPG	632									GB30-2225	System/36	15X
+Development Support Utility		5727-DS1	1000		70	880							System/36	15A
+Development Support Utility		5727-DS6	1000		70	880							System/36 5360/62	05M
Disbursements from Copier/Postage	Attorney	5793-ABX	2200									GB30-2170	5793-AAZ+ABZ	05C
Disbursements from Displaywriter	Attorney	5793-ABR	2200									GB30-2170	5793-AAZ+ABZ	05X
Diskette Exchange Facility	RPQ P84072	5799-CCN	325									GC21-0142	S/36 PC, S/36, PC/AT	05A
DisplayWrite/36		5727-WP1	2000		133	1760						G580-0454	System/36	15A
DisplayWrite/36		5727-WP6	800		600							G580-0570	System/36 PC	05H
DisplayWrite/36 Danish Dictionary		5727-WP2/05	120		105							4763,6064		15A
DisplayWrite/36 English Dictionaries		5727-WP2	120		105		105					G580-0454	DisplayWrite/36	15A
DisplayWrite/36 French I Dictionary		5727-WP2/01	120		105							G580-0454	4763,6064	15A
DisplayWrite/36 French II (Canada) Dictn		5727-WP2/02	120		105							G580-0454	4763,6064	15A
DisplayWrite/36 German Dictionary		5727-WP2/06	120		105							4763,6064		15A
DisplayWrite/36 Italian Dictionary		5727-WP2/04	120		105							4763,6064		15A
DisplayWrite/36 Spanish Dictionary		5727-WP2/03	120		105							4763,6064		15A

Program Title	Short Name	Number	OTC	ILC	MLC	DSO	DSI	DSM	MLP	MML	Mo	MoreInfo	Environment	TPL3
Displaywriter - Information Exchange		5798-RPL	726									.GB30-2215	S/36+Displaywriter	1SX
Distributed Systems Executive 3.1	DSX	5668-915		2700	1035		2025	776	88	140		.GC23-0108	MVS+VTAM/TCAM	1SK
Distributors Mgt Acctg - Accts Pay	DMAS	5727-D48	2805		163	2105						.GH30-0696	CASS	1SB
Distributors Mgt Acctg - Accts Rec	DMAS	5727-D42	2805		163	2105						.GH30-0690	CASS	1SB
Distributors Mgt Acctg - Billing	DMAS	5727-D41	4070		233	3050						.GH30-0690	CASS	1SB
Distributors Mgt Acctg - Gen Ledger	DMAS	5727-D47	2805		163	2105						.GH30-0696	CASS	1SB
Distributors Mgt Acctg - Inv Ctrl	DMAS	5727-D43	3685		214	2765						.GH30-0690	CASS	1SB
Distributors Mgt Acctg - Inv Mgmt	DMAS	5727-D46	6435		371	4825						.GH30-0690	CASS+5727-D43	1SB
Distributors Mgt Acctg - Payroll	DMAS	5727-D49	3795		220	2845						.GH30-0696	CASS	1S3
Distributors Mgt Acctg - Purchasing	DMAS	5727-D45	7810		467	5855						.GH30-0696	CASS	1SB
Distributors Mgt Acctg - Sales Anal	DMAS	5727-D44	3685		214	2765						.GH30-0696	CASS	1SB
DMAS II File / Record Definitions		5798-RPY	330									.GB30-2134	Retrieval/36	1SX
Document Distribution to Remote 5520	EDD	5798-RPJ	1540									.GB30-2213	System/36+5520	1SX
Drywall Contractor Module	CES	5710-RTQ	2200									.GB30-2450	5710-RTN	1SH
Dues Assessment - Trade Assn		5796-ZJA	3850									.GB30-2352	5796-ZHZ	1SX
DW/36 Danish Dictionary		5727-WP7/06	90									G580-0570	4787	05H
DW/36 English Dictionaries		5727-WP7/01	90									G580-0570	4787	05H
DW/36 French I Dictionary		5727-WP7/02	90									G580-0570	4787	05H
DW/36 French II Dictionary (Canada)		5727-WP7/03	90									G580-0570	4787	05H
DW/36 German Dictionary		5727-WP7/07	90									G580-0570	4787	05H
DW/36 Italian Dictionary		5727-WP7/05	90									G580-0570	4787	05H
DW/36 Language Dictionaries		5727-WP7	nc									G580-0570	System/36 PC	NOSH
DW/36 Spanish Dictionary		5727-WP7/04	90									G580-0570	4787	05H
-DW/36 Upgrade from TMS/36		5727-WP1/01	550			484							4769,9682	1SA
Electrical Contractor Module	CES	5710-RTT	8250									.GB30-2450	5710-RTR	1SH
Electronic Spreadsheet		5798-RRR	577									.GB30-2343	System/36	1SX
Equal Employment Opportunity Report	CMAS	5798-RQC	1100									.GB30-2185	5727-M69	1SX
Executive Data Link to PC	MAPICS	5798-RRR	2750									.GB30-2393	System/36+PC	1SX
Executive Data Link to PC (5250 Emulate)	CMAS	5798-RRZ	2750									.GH30-9030	CMAS/36	1SX
File Maintenance Program Writer - Online		5798-RPP	610									.GB30-2217	System/36	1SX
File Support Utilities for PC & XT	RPQ-P84059	5799-BNY	300									GC21-7999	Replaced by 5727-WS1	05E
Financial Analysis	MAPICS	5727-M7H	6000		300	5280						.GH30-9004	CASS	1SE
Financial Desk Calculator		5796-ZGW	319									.GB30-2281	System/36	1SX
-Financial Planning and Modeling		5796-ZGN	2530									.GB30-2251	System/36	1SX
Fire Protection Module	CES	5710-RTX	1100									.GB30-2450	5710-RTR	1SH
Fixed Asset Accounting & Control System		5798-RPH	2750									.GB30-2221	System/36	1SX
Forecasting	MAPICS II	5727-M7L	11000		550	9680						.GH30-9004	CASS	1SE
FORTRAN IV		5727-F01	2800		159	2460						GC21-0910	System/36	1SA
FORTRAN IV		5727-F06	1120			840						G580-0570	System/36 PC	05H
Fund Raising/Development - Trade Assn		5796-ZJB	3300									.GB30-2352	5796-ZHZ	1SH
+GDDM Graphic Subroutines		5798-DRX	550									.G320-9504	System/36	1SH
General Contractor Module	CES	5710-RTP	8250									.GB30-2450	5710-RTN	1SH
General Ledger	MAPICS	5727-M47	2805		163	2105						.GH30-9001	CASS	1SB
General Ledger	CMAS	5727-M67	2475		145	1855						.GH30-9003	CASS	1SB
General Ledger	MAPICS II	5727-M77	3520		176	3095						.GH30-9004	CASS	1SE
General Ledger	BMAS	5727-XB2	1980									.GB30-2733	System/36	1SB
+General Ledger	Career Sch	5796-TCB	3000									.G320-9506	System/36	1SI
General Ledger	BMAS	6201-868	995									.SB30-5525	System/36 PC	050
+Graduate Placement	Career Sch	5796-TCC	2250									.G320-9506	System/36	1SI
Graphing		5798-RPH	770									.GB30-2128	System/36	1SX

Program Title	Short Name	Number	OTC	ILC	MLC	DSO	DSI	DSM	MLP	MML	Mo	MoreInfo	Environment	TPLS
+Guaranteed Student Loan/Pell Tracking	Career Sch	5796-TCG	1500									.G320-5906	System/36	1SI
Hosp Info - Medical Records Abstracting	MRA	5727-AB1/02	14300		650							.6083,6099	15H	
Hospital Info, In-service Training Modul		5727-AB1/03	5000		750							.SB30-7049	6244	15H
Hospital Info, Order Comm & Results Rept	OCV/RR	5727-AB1/01	15000		750							.SB30-7049	6082	15H
Hospital Information System	ADI/PBAR	5727-AB1	16500		750							.SB30-7016	System/36	15H
Info Sys for Attny - Contoller System	Series 900	5793-AEF	175									.GB30-6001	System/36 PC	05H
Info Sys for Attnys Upgr from 5793-AFZ	Series1000	5793-AFX/01	2100									.	4535	05H
Info Sys for Attnys Upgr from 5793-AGA	Series 900	5793-AFY/01	1600									.	4533	05X
Info Sys for Attorneys - Accts Payable	Series1000	5793-AFX	3500									.GB30-6012	5793-ABA	05H
Info Sys for Attorneys - Accts Payable	Series 900	5793-AFY	2275									.GB30-6011	5793-AEF	05H
Info Sys for Attorneys - Accts Payable	Series 800	5793-AFZ	1750									.GB30-6012	5793-ACJ	05H
Info Sys for Attorneys - Accts Payable	Series 700	5793-AGA	750									.GB30-6011	5793-AEB	05H
Info Syst for Attny - Accts Rec & Coll	Series 900	5793-AEL	575									.GB30-6001	Lawyer Finance Mgt	05H
Info Syst for Attny - Accts Rec & Collec	Series 700	5793-ADZ	200									.GB30-6000	Client Finance Mgt	05H
Info Syst for Attny - Client Finance Mgt	Series 700	5793-AED	2250									.GB30-6000	Controller System	05H
Info Syst for Attny - Client Finance Mgt	Series 900	5793-AEQ	6400									.GB30-6001	Controller	05H
Info Syst for Attny - Client Statements	Series 700	5793-ADY	100									.GB30-6000	Client Finance Mgt	05H
Info Syst for Attny - Client Statements	Series 900	5793-AEK	250									.GB30-6001	Finance Mgt	05H
Info Syst for Attny - Client/Matter Recd	Series 700	5793-ADT	500									.GB30-6000	Controller	05H
Info Syst for Attny - Client/Matter Recd	Series 900	5793-AEG	1375									.GB30-6001	Client Finance Mgt	05H
Info Syst for Attny - Conflict Interest	Series 700	5793-ADM	750									.GB30-6000	Client/Matter Record	05H
Info Syst for Attny - Conflict Interest	Series 900	5793-AEH	2275									.GB30-6001	Client/Matter Record	05H
Info Syst for Attny - Law Firm Finance	Series 700	5793-AEB	1000									.GB30-6000	Controller System	05H
Info Syst for Attny - Law Firm Finance	Series 900	5793-AEP	2860									.GB30-6001	Contrlr+Client Fin	05H
Info Syst for Attny - Lawyer Finan Mgt	Series 900	5793-AEN	2290									.GB30-6001	Contrlr+Client Fin	05H
Info Syst for Attny - Lawyer Finance Mgt	Series 700	5793-AEA	750									.GB30-6000	Client Finance Mgt	05H
Info Syst for Attny - Library Management	Series 900	5793-AET	2850									.GB30-6001	Controller	05H
Info Syst for Attny - Litigation Support	Series 900	5793-AER	2850									.GB30-6001	Controller	05H
Info Syst for Attny - Research/Retrieval	Series 900	5793-AEW	2850									.GB30-6001	Controller	05H
Info Syst for Attny - Stat Dates (Docket)	Series 700	5793-ADX	750									.GB30-6000	Client/Matter Record	05H
Info Syst for Attny - Stat Dates (Docket)	Series 900	5793-AEJ	2275									.GB30-6001	Client/Matter Record	05H
Info Syst for Attny - Upgr from 5793-ADR	Series 900	5793-AEF/01	20									.GB30-6001	4501	05H
Info Syst for Attny - Upgr from 5793-ADM	Series 900	5793-AEH/01	1600									.GB30-6001	4515	05H
Info Syst for Attny - Upgr from 5793-ADX	Series 900	5793-AEJ/01	1600									.GB30-6001	4513	05H
Info Syst for Attny - Upgr from 5793-ADY	Series 900	5793-AEK/01	160									.GB30-6001	4511	05H
Info Syst for Attny - Upgr from 5793-ADZ	Series 900	5793-AEL/01	395									.GB30-6001	4509	05H
Info Syst for Attny - Upgr from 5793-AEA	Series 900	5793-AEM/01	1615									.GB30-6001	4507	05H
Info Syst for Attny - Upgr from 5793-AEB	Series 900	5793-AEP/01	1960									.GB30-6001	4505	05H
Info Syst for Attny - Upgr from 5793-AED	Series 900	5793-AEQ/01	4375									.GB30-6001	4503	05H
Info Syst for Attorneys - Contoller Sys		5793-ADR	175									.GB30-6000	System/36 PC	05H
Integrated Production Control System	IPCS	5796-ZFH	19250									.GB30-2261	System/36	15X
Interactive Cost Estimating - Base	CES	5710-RTN	12650									.BG30-2450	System/36	15H
Interactive Cost Estimating - Base	CES	5710-RTR	12650									.GB30-2450	System/36	15H
Inv Mgt for Process - Upgr from 5727-M45	MAPICS II	5727-M7N/01	17500			15400						.	.4081,9733	15E
Inv Mgt for Process - Upgr from 5727-M75	MAPICS II	5727-M7N/02	15500			13640						.	.4082,9734	15E
Inv Mgt for Process - Upgr from 5727-M75	MAPICS II	5727-M7N/03	11300			9944						.	.4083,9735	15E
Inventory Accounting	BMAS	5727-XB6	1980									.GB30-2711	System/36	15B
Inventory Accounting	BMAS	6201-870	995									.SB30-3561	System/36 PC	05G
Inventory Forecasting for Manufacturers	MAPICS	5798-RPR	6600		300							.GB30-2187	System/36	15X
Inventory Management	MAPICS	5727-M45	3685		214	2765						.GH30-9002	CASS	15B

Program Title	Short Name	Number	OTC	ILC	MLC	DSO	DSI	DSM	MLP	MML	Mo	MoreInfo	Environment	TPLS
Inventory Management	MAPICS II	5727-M75	5500		275	4840						.GH30-9006	CASS	15E
+Inventory Management for Process	MAPICS II	5727-M7N	20000		1000	17600						.GH30-0998	System/36	15E
+IPDS Advanced Function	RPQ P84094	5799-C6K	300										System/36	15A
+IPDS Advanced Functions		5799-C6L	150										System/36	05E
+IPDS Graphics-Text Merge		5799-C6P	150										System/36	05E
+IPDS Graphics/Text Merge	RPQ P84096	5799-C6J	200										System/36	15A
Job Analysis System		5798-RRH	3025									.GB30-2309	System/36	15X
Job Costing	CMAS	5727-M66	2475		145	1855						.GH30-9003	CASS	15B
Law Firm Financial Management	Attorney	5793-ABA	4800									.GB30-2151	5793-ABZ	05X
Law Firm Financial Management Series 800	Attorneys	5793-ACJ	2200									.GB30-2415	System/36+5793-ABZ	05H
Law Firm Library Management	Attorney	5793-ABJ	6270									.GB30-2160	5793-ABZ	05X
Lawyer Financial Management	Attorney	5793-ABB	3870									.GB30-2151	5793-AAZ+ABZ	05X
Lawyer Financial Management Series 800	Attorneys	5793-ACK	1650									.GB30-2415	S/36+5793ACH+ABZ	05H
Litigation Support	Attorney	5793-ABK	6270									.GB30-2160	5793-ABZ	05X
+Location/Lot Management	MAPICS II	5727-M7P	4200		210	3696						.GH30-9006	System/36	15E
-Make-to-Schedule Facility for Inventory	MAPICS II	5798-RWE	3300									.GB30-2386	System/36	15H
-Make-to-Schedule for Inventory Mgt	MAPICS	5798-RRY	3300									.GB30-2386	System/36	15X
MAPICS File / Record Definitions		5798-RQB	330									.GB30-2146	Retrieval/36	15X
MAPICS II File / Record Definitions		5798-RWD	400									.GB30-2146	Retrieval/36	15H
+Master Production Schedule Planning	MAPICS II	5727-M7J	11500		575	10120						.GH30-9005	System/36	15E
Material Requirements Planning	MAPICS	5727-M6B	6710		383	5030						.GH30-9002	CASS	15B
Material Requirements Planning	MAPICS II	5727-M7B	7700		385	6775						.GH30-9006	CASS	15E
Mechanical Contractor Module	CES	5710-RTY	3850									.GB30-2450	5710-RTR	15H
Membership Data Base		5796-ZJE	7700									.GB30-2401	System/36	15X
Membership Data Base - Trade Assn		5796-ZHZ	7700									.GB30-2352	System/36	15X
Membership Dues Assessment		5796-ZJF	3850									.GB30-2401	5796-ZJE	05X
Membership Fund Raising/Development		5796-ZJG	3300									.GB30-2401	5796-ZJF	15X
Membership Special Events		5796-ZJJ	3300									.GB30-2401	5796-ZJE	15X
Membership Subscription Fulfillment		5796-ZJH	3850									.GB30-2401	5796-ZJE	15X
MVS/SP/JES2 1.3.5 and 1.3.6	JES2	5740-XY5/02			2170			1627	240	384		GC28-1025	4525,6143,9525	25K
MVS/SP/JES3 1.3.5	JES3	5740-XYN/02			2380			1784	517	827		GC28-1025	4524,9524	05K
Network REVELATION tm 4-User Upgrade		6187-232	500									.GB30-2037	PC,XT,AT,3270-PC	05Y
Office Management System	OMS/36	5727-051	1950			1715						G580-0454	Upgrade to PS/36	15X
Office Management System		5727-056	780			585						G580-0570	System/36 PC	05H
Office Sys - Disbursements from Phone	Attorney	5793-ABY	2200									.GB30-2170	5793-AAZ+ABZ	05X
Office System - Financial Schedules	Attorney	5793-ABN	2640									.GB30-2166	5793-ABZ	05X
Office System - Mailings	Attorney	5793-ABP	1760									.GB30-2166	5793-ABZ	05X
Office System - Time From Displaywriter	Attorney	5793-ABQ	2200									.GB20-2170	5798-AAZ+ABZ	05X
Office System - Time from OCR	Attorney	5793-ABH	2200									.GB30-2170	5793-AAZ+ABZ	05X
Order Entry and Invoicing	MAPICS	5727-M69	4125		238	3095						.GH30-9001	CASS	15B
Order Entry and Invoicing	MAPICS II	5727-M79	5280		264	4645						.GH30-9004	CASS	15E
Order Entry/Invoice to Gen Ledgr Interfc	MAPICS	5798-RTC	525									.GB30-2402	S/36+Ord Entry	15X
Payroll	MAPICS	5727-M62	3795		220	2845						.GH30-9001	CASS	15B
Payroll	MAPICS II	5727-M72	4180		209	3345						.GH30-9004	CASS	15E
Payroll	BMAS	5727-XB5	1980									.GB30-2755	System/36	15B
Payroll	BMAS	6201-871	995									.S830-3549	System/36 PC	05G
Payroll And Labor Costing	CMAS	5727-M69	4455		257	3340						.GH30-9003	CASS	15B
Payroll 401K Tax-Deferred Savings Plan	DMAS	5798-RNK	300									.GB30-2493	S/36 DMAS Payroll	15H
+PC Performance Monitor	RPQ P84090	5799-PAJ	300										System/36	15A
PC Support/36	Token-Ring	5727-WS1	700		48	615						G580-0454	5727-LC1+S/36+AT	11M

Program Title	Short Name	Number	OTC	ILC	MLC	DSO	DSI	DSH	MLP	MML	Mo	MoreInfo	Environment	TPLS
PC Support/36	Token-Ring	5727-MS6	280			210						6580-0570	5727-LC6+5364	T0LM
PC Support/36 Token-Ring Workstatn Feat		5727-MS1/01	1500		100	1320						6580-0454	6248	T1LM
+PC Support/36 Token-Ring Workstatn Frat		5727-MS6/01	600			450						6580-0570	6181	T0LM
PC to System/36 Transfer Facility		5799-BRL	950										Replaced by 5727-MS1	05Z
Pers_DS Extended Support Annual Subscrip		6316-971/01	125								12.		See Program Descriptn.	05G
Personal Decision Series - Attachment/36		5727-BRK	1155									.GH30-0757	S/36+6316972	15E
Personal Decision Series - Attachment/36		6316-972	165									.GH30-0757	PC,PPC,XT+Data Editn.	05G
Personal Services/36		5727-WP3	3000		203	2640						6580-0454	DisplayWrite/36	15A
+Personal Services/36		5727-WP8	2250			1687						6580-0570	System/36 PC	05H
Physical Inventory Enhancement	DMAS	5798-RPE	1395									.GB30-2230	System/36	15X
Plumbing Contractor Module	CES	5710-RTM	3500									.GB30-2450	5710-RTR	15H
Procedure Documentation & Mod Aid		5798-RPN	973									.GB30-2211	System/36	15X
Product Data Management	MAPICS	5727-M46	6105		353	4580						.GH30-9002	C.ASS	15B
Product Data Management	MAPICS II	5727-M76	8470		423	7450						.GH30-9006	C.ASS	15E
Production Control and Costing	MAPICS	5727-M41	6710		383	5030						.GH30-9002	C.ASS	15B
Production Control and Costing	MAPICS II	5727-M71	8085		407	7115						.GH30-9006	C.ASS	15E
Programmer & Operator Productivity	RPQ P84061	5799-BRJ	500									GC21-9074	System/36	15X
Programmer & Operator Productivity Aid	RPQ P84079	5799-BXT	200									6580-0570	System/36 PC	05H
+Projected/Actual Payment Tracking	Career Sch	5796-TBY	1500									0320-9506	System/36	15I
Public Sector Acctg Sys - Utility Acctg	PSAS	5710-GA6	8500										System/36	15I
Public Sector Budgeting/Accounting		5710-GA4	10890										System/36	15H
Public Sector Payroll & Personnel Acctg	PSAS	5710-GA5	4400										System/36	15I
Purchasing	MAPICS II	5727-M7K	9600		480	8450						.GH30-9006	C.ASS	15E
Query/36		5727-QU1	950		64	835						6580-0454	System/36	15A
Query/36		5727-QU6	380			285						6580-0570	System/36 PC	05H
+Registration, Attendance & Grading	Career Sch	5796-TCJ	6750									.G320-9506	System/36	15I
+Response Time Measurement Facility	RPQ P84089	5799-PAZ	200										System/36	15A
Retail Inventory Planning & Mdse	RIPMS	5796-ZGT	66000									.GB30-2319	System/36	15X
Retrieval/36		5798-RPX	1320									.GB30-2069	System/36	15X
Revenue Accounting	CMAS	5727-M6A	3905		227	2930						.GH30-9003	System/36+CASS	15B
RM/COBOL tm Compiler and Runtime		5796-PZK	1900									.G320-0800	System/36	25H
RM/COBOL tm Compiler and Runtime		5796-TBT	1250									.G320-0818	System/36 PC	25S
RM/COBOL tm Runtime		5796-PZL	400									.G320-0800	System/36	25H
RM/COBOL tm Runtime		5796-TBR	250									.G320-0818	System/36 PC	25H
RPG II		5727-RG1	800		44	700						GC21-9008	System/36	15A
RPG II		5727-RG6	320			240						6580-0570	System/36 PC	05H
Sales Analysis	MAPICS	5727-M48	3685		215	2765						.GH30-9000	C.ASS	15B
Sales Analysis	MAPICS II	5727-M78	4015		203	3530						.GH30-9005	C.ASS	15E
School - Employee Management System	CIMS	5796-ZGA	13200									.GB30-2268	5796-ZFY	15H
School - Financial Management	CIMS	5796-ZFY	15950									.GB30-2268	System/36	15H
School - Fixed Asset Inventory System	CIMS	5796-ZGB	3960									.GB30-2268	5796-ZFY	15H
School - Library Management System	CIMS	5796-ZGF	1980									.GB30-2268	System/36	15H
School - Student Administration System	CIMS	5796-ZFZ	13200									.GB30-2268	System/36	15H
School - Student Attendance System	CIMS	5796-ZGC	3960									.GB30-2268	5796-ZFZ	15H
School - Warehouse Inventory System	CIMS	5796-ZGD	5280									.GB30-2268	5796-ZFY	15H
Schools Financial Accounting System		5796-ZNA	8000									.GB30-6002	System/36 PC	15H
Schools Inventory Management System		5796-ZNC	3000									.GB30-6002	Financial Acctg Syst	15H
Schools Payroll System		5796-ZNB	8000									.GB30-6002	Financial Acctg Sys	15H
Sort Preparation Facility 3694	CHX/GS	5798-RQZ	825									.GB30-2238	System/36+5748-F53	15X
Special Events - Trade Assn		5796-ZJD	3300									.GB30-2352	5796-ZHZ	15X



Program Title	Short Name	Number	OTC	ILC	HLC	DSO	DSI	DSH	MLP	MML	Mo	MoreInfo	Environment	TPLS	
+SSP (5360/62) 3278 Emulation on PC		5727-SS1/15	2250		150	1980							6080,4880,4869,4870	15A	
+SSP (5364) 3278 Emulation on PC		5727-SS6/07	900			675							6091,6095,4873	15A	
+SSP Additional Support		5727-SS1/12	500		40	440							6101,4931,4932,4933	15A	
+SSP Automatic PTF Distribution		5727-SS1/11	285										4973	15E	
SSP Automatic PTF Distribution	SSP	5727-SS6/06	155									G580-0570	4798	05H	
SSP Communications & System Mgt	C&SM	5727-SS1/08	1000		53	875						GC21-9021	4536,4537,4662	15A	
SSP Communications and System Mgt	SSP	5727-SS6/04	750			562						G580-0570	4775	05H	
SSP Communications Feature		5727-SS1/02	nc									GC21-9021	4504,4505,4601	N15A	
SSP Data Encryption Std for Banking	DES	5727-SS1/06	200			175						GC21-9021	4512,4605	15A	
+SSP Display Station Pass-Through		5727-SS1/14	500		40	440							6079,4687,4688,4689	15A	
SSP Distributed Data Management		5727-SS1/09	2500		165	2200							4733,4734,6054	15A	
SSP Distributed Data Management	SSP	5727-SS6/05	1875			1406						G580-0570	4776	05H	
SSP Distributed Disk File Facility	DDFF	5727-SS1/07	3000		171	2640						GC21-9021	4514,4515,4606	15A	
SSP Extended Feature		5727-SS1/01	1150		68	1010						GC21-9021	4503,4502,4600	15A	
SSP Interactive Communications Feat	ICF	5727-SS1/03	4300		383	3785						GC21-9021	4506,4507,4602	15A	
SSP Interactive Communications Feature	SSP	5727-SS6/01	3225			2618						G580-0570	4772	05H	
SSP Multiple Session Remote Job Entry	SSP	5727-SS6/03	1440			1080						G580-0570	4774	05H	
SSP Multiple Session RJE	MSRJE	5727-SS1/05	3600		217	3165						GC21-9021	4510,4511,4604	15A	
+SSP Tape Support		5727-SS1/13	400		30	352							6102,4934,4935,4936	15A	
SSP 3270 Devive Emulation	SSP	5727-SS6/02	1100			825						G580-0570	4773	05H	
SSP 3270 Emulation Feature		5727-SS1/04	2500		263	2200							GC21-9021	4508,4509,4603	15A
Statutory Dates (Docket) Series 800	Attorneys	5793-ACP	1650									.GB30-2415	S/36+5793ABZ+ACR	05H	
Strategic Profit Model II		5798-RPT	495									.GB30-2130	System/36	15X	
+Student Accounts Payable	Career Sch	5796-TCF	1500									.G320-9506	System/36	15I	
Student Attendance Management System		5796-ZNH	3600									.GB30-6002	Student Mgt System	15H	
Student Evaluation System		5796-ZNJ	3000									.GB30-6002	Student Mgt System	15H	
+Student Financial Tracking	Career Sch	5796-TCA	6750									.G320-9506	System/36	15I	
Student Grading System		5796-ZNE	2500									.GB30-6002	Student Mgt System	15H	
Student Management System		5796-ZND	3000									.GB30-6002	System/36 PC	15H	
Student Optical Scanning System		5796-ZNG	1500									.GB30-6002	Student Mgt System	15H	
+Student Recruitment	Career Sch	5796-TCD	6000									.G320-9506	System/36	15I	
Student Scheduling System		5796-ZNF	5000									.GB30-6002	Student Mgt System	15H	
Subscription Fulfillment Trade Assn		5796-ZJC	3850									.B030-2352	5796-ZHZ	15X	
System Support Package		5727-SS1/10	195										2874	15E	
System Support Program	SSP	5727-SS1	4000		268	3520						GC21-9021	System/36	15A	
System Support Program	SSP	5727-SS6	995			746						G580-0570	System/36 PC	05H	
+System Support Program - Office Enhancement		5727-SS1/16	nc										6240	N15A	
System/3 to System/36 RPG-II Conversion		5798-DQR	330									.G320-0342	System/36	15H	
System/34 to System/36 Migration Aid		5727-MA1	250									GC21-9058	System/34+System/36	01X	
+System/36 Local Area Network Communicatn Token-Ring		5727-1C1	925		75	8143							S/36+AT in a T-R net	15A	
+System/36 PC Local Area Network Communic	Token-Ring	5727-1C6	695			521							5364+AT in a TRN	15M	
System/36 to S/38 Conversion Aid 1.2.0		5714-CV9	600									GC21-8025	S/36+S/38	11A	
System/36 to System/36 Document Transfer	RPQ P84067	5799-BWE	800										OMS and TMS	15X	
Table Preparation Facility 3694	CHX/GS	5798-RQX	1650									.GB30-2238	S/36+5748F53+5798RFL	15X	
Telephone Access to Office Systems		6467-039	250									.G320-9156	PROFS,PS/36,PS/38	05E	
Text Management System	TMS/36	5727-TX1	1500			1320						G580-0454	System/36	15X	
Text Management System		5727-TX6	600			450						G580-0570	System/36 PC	05H	
+Time & Material/Service Billing	CMAS	5796-ZPK	3500									.GB30-6016	5727-M6X+M6A	15H	
TMS/36 Upgrade to DisplayWrite/36		5727-TX1/01	550										Order 5727-WP1/01	15	
ISO Programming Control Facility II	PCF II	5798-CLH	1350		52							.GB21-1987	MVS	15E	

<u>Program Title</u>	<u>Short Name</u>	<u>Number</u>	<u>OTC</u>	<u>ILC</u>	<u>MLC</u>	<u>DSO</u>	<u>PSI</u>	<u>DSM</u>	<u>HLP</u>	<u>MHL</u>	<u>Mo</u>	<u>MoreInfo</u>	<u>Environment</u>	<u>TPLS</u>	
-Upgrade OMS/36 to PS/36		5727-WP3/01	1250			1100							4770,9683	1SA	
Upgrade to PS/36		5727-051/01	1250			1100							Order 5727-WP3/01	1SA	
Utilities		5727-UT1	600		34	525						GC21-7895	System/36	1SA	
Utilities		5727-UT6	240			180						0580-0570	System/36 PC	0SH	
<b>+Vendor Accounts Payable</b>	<b>Career Sch</b>	<b>5796-TCH</b>	<b>1500</b>										<b>.G320-9506</b>	<b>System/36</b>	<b>1SI</b>
Voter Registration / Jury Selection Syst		5796-PXM	12100										.G320-0339	System/34,36+COBOL	1SH
Work Station Search Facility	WSF/36	5727-XX1	935										.G580-0212	System/36,S/36 PC	1SB
Workstation Utilization Analysis		5798-RRX	495										.GB20-0361	System/36	1SX
401K Tax-deferred Savings Plan	MAPICS	5798-RMH	300										.GB30-3316	S/36 MAPICS Payroll	1SX
<b>4700 Online Terminal Support</b>	<b>RPQ-P90002</b>	<b>5799-BGB</b>	<b>1600</b>			<b>62</b>							<b>GC31-0022</b>	<b>System/34 and 36</b>	<b>1SB</b>
5224 / 5225 Advanced Printer Function	APF/36	5727-AP1	700			615							GC21-7981	System/36	1SX
5224 / 5225 Advanced Printer Function		5727-AP6	280			210							0580-0570	System/36 PC	0SH
5250 Emulation for the 4700	RPQ P90021	5799-BZL	1995										SC31-3588	Systems/34, 36, 38	1SE
<b>+5250 Enhanced Emulation Program 2.1</b>		<b>6386-354</b>	<b>160</b>										0570-2221	PC,XT,AT,PPC	0SZ
<b>-5250 Enhanced Emulation Upgrade to 2.1</b>		<b>6386-352</b>	<b>50</b>										<b>0570-2221</b>	<b>PC,XT,AT,PPC</b>	<b>0SZ</b>
<b>+5250 Enhanced Emulation 2.1 Convence Kit</b>		<b>55X3-364</b>	<b>845</b>										0570-2221	PC,XT,AT,PPC	0SZ
5250 Remote Emulation Program		6403-685	195										0520-1107	PC,XT,PPC,AT+S/36,38	0SZ
6670 Information Distributor Support		5798-RPK	1210										.GB30-2219	System/36	1SX

Program Title	Short Name	Number	OTC	ILC	MLC	DSO	DSI	DSM	MLP	MHL	Mc	MoreInfo	Environment	TPLO
Accounts Payable	MAPICS	5714-M43	2675		95	2010		71				.GH30-0710	System/38	11D
+Accounts Payable	MAPICS II	5714-M73	3220		160	2834						.GH30-9036	System/38	15E
Accounts Payable - Upgrade from MAPICS	MAPICS II	5714-M73/01	1310			1153						.4607, 9605		15E
Accounts Payable Distribution	DMS/38	5714-D48	2675		93	2010		70				.GH30-0710	System/38	11D
Accounts Receivable	MAPICS	5714-M44	2675		95	2010		70				.GH30-0708	System/38	11D
+Accounts Receivable	MAPICS II	5714-M74	3220		160	2834						.GH30-9037	System/38	15E
Accounts Receivable Distribution	DMS/38	5714-D42	4355		151	3265		112				.GH30-0130	System/38	11X
Accounts Receivable Upgrade from MAPICS	MAPICS II	5714-M74/01	1310			1153						.4610, 9607		15E
Admin System for Colleges/ Financial Aid		5796-PMZ	8800									.G320-9194	System/38	15H
Admin System for Colleges/ Student Recds		5796-PHY	7920									.G320-0194	System/38	15H
Admissions for Colleges & Universities		5796-PXA	6820									.G320-9194	System/38	15H
Advanced Printer Functions 5224		5714-UT2	1200			1056						GC21-7971	System/38+5224/5225	15A
Bar Chart	RPQ-P84050	5799-BHQ	900									GC21-7953	System/38	15E
BASIC		5714-BA1	3600		205	3168		180				GC21-9044	System/38	15A
+BASIC Conversion Aid from BASIC Four		5798-DWB	3000									.G320-0830	System/38	15M
Business Graphics Utility	OFFICE/38	5714-GP1	2000		107	1760		94				GC09-1060	System/38	15E
Capacity Reqs Plannng - Upgr from MAPICS	MAPICS II	5714-M76/01	2790			2455						.4634, 9623		15E
Capacity Requirements Planning	MAPICS	5714-M4G	6560		234	4920		175				.GH30-0482	System/38	11D
+Capacity Requirements Planning	MAPICS II	5714-M7G	7480		375	6582						.GH30-9037	System/38	15E
COBOL		5714-CB1	7200		276	6336		242				GC21-7764	System/38	15A
COBOL Conversion Aid		5798-RGT	1420									.GB30-1764	System/38	05X
-COBOL Conversion Aid to System/38		5798-NXW	632									.GB30-1362	System/38	05H
Control Program Facility 1.7.0	CPF	5714-SS1	22000		869	19360		728				GC21-7729	System/38	15A
Conversion Reformatt Utility		5714-CV2	600		20	528		18				GC21-7779	System/38	15A
Cross Applic Sys Suppt- Upgr from MAPICS	MAPICS II	5714-M7X/01	2420		120	1230						.4623, 9623		15E
+Cross Application System Support	MAPICS II	5714-M7X	2420		120	2130						.GH30-9037	System/38	15E
Cryptographic Facility		5714-CR1	5000		250							SC21-8026	System/38	15A
Customer Service Billing Distribution	DMS/38	5714-D41	4985		173	3735		129				.GH30-0130	System/38	11X
Data Collection - Upgrade from MAPICS	MAPICS II	5714-M7A/01	2030			1786						.4628, 9619		15E
Data Collection System Support	MAPICS	5714-M4A	4410		157	3305		119				.GH30-0709	System/38	11D
+Data Collection System Support	MAPICS II	5714-M7A	5180		260	4558						.GH30-9037	System/38	15E
Development for Colleges & Universities		5796-PXB	6820									.G320-9194	System/38	15H
Display Information Alpha Search	DIF	5714-XR1	3410		119	2560		89				.GH30-0145	System/38	11D
-EDX Communication Controller		5798-ZZF	3025		275							12.GB30-1579	S/38, 34, 5280, 370	15X
File Support Utilities for PC & XT	RPQ-P84058	5799-BKP	300									GC21-7995	System/38	05Z
-Financial Desk Calculator		5796-ZEL	352									.GB30-2093	System/38	15X
-Financial Planning and Modeling		5796-ZFD	2970									.GB30-2249	System/38	15X
-Fixed Asset Accounting & Control		5798-RJG	2640									.GB30-1790	Replaced by 5798-RWT	15X
Fixed Asset Accounting & Control System		5798-RWT	2800									.GB30-6010	System/38	15A
Fixed Asset Acctg - Upgr from 5798-RJG		5798-RWT/01	600									.GB30-6010	4408, 9049	15H
General Ledger	MAPICS	5714-M47	2675		95	2010		71				.GH30-0710	System/38	11D
+General Ledger	MAPICS II	5714-M77	3680		185	3238						.GH30-9036	System/38	15E
General Ledger - Upgrade from MAPICS	MAPICS II	5714-M77/01	1770			1558						.4619, 9613		15E
General Ledger Distribution / Media	DMS/38	5714-D47	2675		93	2010		70				.GH30-0710	System/38	11D
Hotel Reservation & Guest Accounting Sys		5710-DD1	66000									.GB30-2034	System/38	15H
Interactive Data Base Utilities 1.7.0		5714-UT1	3000		123	2640		108				GC21-7761	System/38	15A
Inv Mgmt Prod Rep & Ord Val Eval Improve	DMS/38	5714-D46	9975		349	7475		261				.GH30-0080	System/38	11D
Inventory Control Distribution	DMS/38	5714-D43	4670		163	3505		123				.GH30-0130	System/38	11X
Inventory Management	MAPICS	5714-M45	3465		124	2595		92				.GH30-0708	System/38	11D
+Inventory Management	MAPICS II	5714-M75	5750		290	5060						.GH30-9037	System/38	15E

Program Title	Short Name	Number	QTC	ILC	MLC	DSQ	DSI	DSM	MLP	MML	Mo	MoreInfo	Environment	TPIS
Inventory Management Upgrade from MAPICS	MAPICS II	5714-M75/01	3280			2886							.4613,9609	1SE
Language Dictionaries	OFFICE/38	5714-DCT	195			172						GC09-1021	5714-MP2	1SA
-Make-to-Schedule for Inventory Mgt	MAPICS	5798-RQT	3630									.GB30-2326	System/38	1SX
+MAPICS II Financial Analysis Release 1		5714-M7H	6900			6070						.5B30-3279	System/38	1SE
+MAPICS II Forecasting Release 1		5714-M7L	12650			11132						.5B30-3402	System/38	1SE
+MAPICS II Master Prod Sched Plan Rel 1		5714-M7J	13230			11640						.5B30-3285	System/38	1SE
Material Reqtgs Plannng - Upgr from MAPICS	MAPICS II	5714-M7B/01	3290			2895						.4631,9621		1SE
Material Requirements Planning	MAPICS	5714-M7B	6665		239	5000		178				.GH30-0709	System/38	1ID
+Material Requirements Planning	MAPICS II	5714-M7B	8050		405	7084						.GH30-9037	System/38	1SE
Message Switching System		5798-RHF	2145									.GB30-1756	System/38	1SH
Network Configuration Tool		5798-RLT	962									.GB30-1991	System/38	1SX
Object Management Facility		5798-RLZ	880									.GB30-2285	System/38	1SX
OFFICE/38 - WORKSHEET/38 tm		5710-RRL	2790									.GB30-2383	System/38	1SI
OFFICE/38 Administrative Mgmt		5714-WP1	1500			1320						GC21-7951	System/38	1SE
OFFICE/38 Applications Made Easy	AME	5714-XE1	4400									.GB30-1952	System/38	1SX
OFFICE/38 Personal Services/38		5714-MP3	6500		400	5720		352				GC09-1071	System/38	1SA
OFFICE/38 Text Management		5714-MP2	1800		67	1584		59				OS80-0460	System/38	1SA
Online Presentation Utility	OPUS/38	5798-DRB	1090									.G320-0252	System/38	1SH
Order Ent & Inv - Upgrade from MAPICS	MAPICS II	5714-M79/01	2630			2314						.4625,9617		1SE
Order Entry and Invoicing	MAPICS	5714-M49	4040		142	3175		105				.GH30-0708	System/38	1ID
+Order Entry and Invoicing	MAPICS II	5714-M79	5520		280	4858						.GH30-9036	System/38	1SE
Order Entry/Invoice to Gen Ledgr Interfc	MAPICS	5798-R7D	550									.GB30-2402	S/38+Ord Entry	1SX
Order Management System		5796-ZKB	71500									.GB30-2466	System/38	1SX
+Payroll	MAPICS II	5714-M72	4370		220	3846						.GH30-9036	System/38	1SE
Payroll - Upgrade from MAPICS		5714-M72/01	1930			1698						.4604,9603		1SE
Payroll Distribution	DMS/38	5714-D49	3410		119	2560		89				.GH30-0710	System/38	1ID
Payroll Manufacturing	MAPICS	5714-M42	3410		123	2560		92				.GH30-0710	System/38	1ID
PC Support/38 1.7.0		5714-PC1	995			876						S/38+PC, XT, AT, PPC		1SA
PC to System/38 Transfer Facility		5799-BTZ	950									PC+S/38		05Z
Performance Measurement Tool	RPQ P84056	5799-BJK	1000									GC21-7958	System/38	05E
PL/I		5714-P11	9800		524	8624		461				GC21-8017	System/38	1SA
Product Data Management	MAPICS	5714-M46	5985		213	4485		159				.GH30-0709	System/38	1ID
+Product Data Management	MAPICS II	5714-M76	8860		445	7797						.GH30-0937	System/38	1SE
Product Data Mgt - Upgrade from MAPICS	MAPICS II	5714-M76/01	4590			4039						.4616,9611		1SE
Production Control and Costing	MAPICS	5714-M41	6665		231	5000		178				.GH30-0709	System/38	1ID
+Production Control and Costing	MAPICS II	5714-M71	8450		425	7436						.GH30-9037	System/38	1SE
Production Ctl - Upgrade from MAPICS	MAPICS II	5714-M71/01	3690			3247						.4601,9601		1SE
Purchasing Distribution	DMS/38	5714-D45	9605		335	7205		250				.GH30-0595	System/38	1IX
Remote Job Entry Facility	RJEF	5714-RC1	5000		185	4400		163				GC21-7916	System/38	1SA
Retail Inventory Plan & Mdse System		5796-ZFA		9995	3795						24	.GB30-2207	System/38	1SX
RPG III		5714-RG1	2800		108	2464		95				GC21-7762	System/38	1SA
S/3 CCP to S/38 Conversion	PROD AID	5714-CV7	2810									GC21-7772	System/38	05X
-S/3 DBT to S/38 Conversion Aid		5798-NYN	271									.GB30-1389	System/38	05H
S/3 to S/38 Batch Conversion Aid		5798-RBC	759									.GB30-1504	System/38	05H
S/3 to S/38 Batch Conversion Aid		5798-RDK	715									.GB30-1585	System/38	05H
Sales Analysis	MAPICS	5714-M48	3410		121	2560		90				.GH30-0708	System/38	1ID
+Sales Analysis	MAPICS II	5714-M78	4200		210	3696						.GH30-9035	System/38	1SE
Sales Analysis - Upgrade from MAPICS	MAPICS II	5714-M78/01	1760			1349						.4622, 9615		1SE
Sales Analysis Distribution	DMS/38	5714-D44	4040		139	3030		105				.GH30-0130	System/38	1ID
Signature Verification		5798-DRK	16500			750						.3209-244	System/38	1SH

<u>Program Title</u>	<u>Short Name</u>	<u>Number</u>	<u>OTC</u>	<u>ILC</u>	<u>MLC</u>	<u>DSO</u>	<u>DSI</u>	<u>DSH</u>	<u>HLP</u>	<u>MHL</u>	<u>Mo</u>	<u>MoreInfo</u>	<u>Environment</u>	<u>TPLS</u>
Source Archive		5798-RFD	378									.GB30-1630	System/38	1SX
System/34 to System/38 Conversion		5714-CV5	1625									GH30-0460	System/38	05D
System/36 to S/38 Conversion Aid 1.2.0		5714-CV9	600									GC21-8025	S/36+S/38	1IA
System/38 to S/1 Communication Utility		5798-RDY	605									12.GB30-1579	System/38	15H
System/38 to VSE/POWER RJE BSC		5798-RKB	4155	544	189							12.GB30-1873	System/38	1SX
System/38 to 5520 Communication BSC		5796-PZJ	2475									.G320-9236	5714-SS1+5611-551	15H
Telephone Access to Office Systems		6467-039	250									.G320-9154	PROFS,PS/36,PS/38	05E
Transaction Switching Facility		5798-RKC	3135									.GB30-1871	Multiple System/38s	15X
Vehicle Maint - Parts Inventory		5796-RGG	10640		968							12.GB30-1680	System/38	15X
Work Station Search Facility	WSF/38	5714-WS1	827									.GH30-0458	System/38	15D
3694 Check Processing Executive/General		5798-DQK	4950									.G320-0372	System/38	15H
401K Tax-deferred Savings Plan	MAPICS	5798-RWF	300									.GB30-3316	S/38 MAPICS Payroll	15X
5250 Emulation Convenience Kit		6092-656	745									G520-1107	PC+S/34,38	05X
5250 Emulation for the 4700	RPQ P90021	5799-BZL	1995									SC31-3588	Systems/34, 36, 38	15E
5250 Emulation Prog for PC or XT		6092-651	164									G520-3917	PC,XT+S/34,36,38	15X
+5250 Enhanced Emulation Program 2.1		6386-354	160									G570-2221	PC,XT,AT,PPC	05Z
-5250 Enhanced Emulation Upgrade to 2.1		6386-352	50									G570-2221	PC,XT,AT,PPC	05Z
+5250 Enhanced Emulation 2.1 Convence Kit		55X5-364	845									G570-2221	PC,XT,AT,PPC	05Z
5250 Remote Emulation Program		6403-685	195									G520-1107	PC,XT,PPC,AT+S/36,38	05Z
6670 Information Distributor		5798-RRB	2060									.GB30-2301	System/38	15X

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+Advanced Program-to-Program Communicatns		5732-025	8000									GX34-1000	5732-028+5732-010	15M
+BASIC Release 1		5732-012	5900									SC34-0681	System/88	15M
+C Compiler and Subroutine Library Rel 1		5732-023	7600										System/88	15M
+COBOL Release 1		5732-011	5900									SC34-0672	System/88	15M
+Communications & Systems Management		5732-026	5000									GX34-1000	5732-027+5732-010	15M
+Forms Management System Release 1		5732-007	4370									SC34-0671	System/88	15M
+FORTRAN Release 1		5732-014	5900									SC34-0685	System/88	15M
+ORACLE tm Release 1		5732-024	27000										System/88	15M
+PASCAL Release 1		5732-015	5900									SC34-0689	System/88	15M
+Personal Computer Terminal Support 1.0		5732-019	100									SX34-0173	System/88+PC,XT	15M
+PL/I Release 1		5732-013	5900									SC34-0668	System/88	15M
+Primary Systems Network Architecture		5732-028	4500									GX34-1000	5732-027	15M
+Remote Job Entry Release 1		5732-003	3540									SC34-0680	System/88	15M
+Secondary Systems Network Architecture		5732-029	5500									GX34-1000	5732-027	15M
+SNA Cluster Controller Release 1		5732-021	8100									SX34-0173	SDLC Protocol Suppt	15M
+SNA-3270 Terminal Emulation Release 1		5732-020	2200									SX34-0173	5732-010+5732-021	15M
+Symbolic Debugging Aid Release 1		5732-017	1660									SC34-0716	System/88	15M
+Synchronous Data Link Control Protocol	SDLC	5732-010	3300									SC34-0677	System/88	15M
+System/88 Network		5732-002	7550									SC34-0677	System/88	25M
+System/88 Operating System 1.1		5732-001	11800									SC34-0664	System/88	25M
+Systems Network Architecture Interface		5732-027	3000									GX34-1000	System/88	15M
+Text Editor Release 1		5732-016	2360									SC34-0715	System/88	15M
+Transaction Processing Services Rel 1		5732-006	6140									SC34-0670	System/88	15M
+X.25 Networking Facility Release 1		5732-008	5430									SC34-0677	System/88	15M
+X.29 Networking Facility Release 1		5732-009	1770									SC34-0677	System/88	15M
+3270 Emulator Support Release 1		5732-005	5900									SC34-0678	System/88	15M
+3270 Terminal Support Release 1		5732-004	4370									SC34-0703	System/88	15M

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ACP / ACF Transactions	ACP/ACF	5748-T11/01			3060							GH20-2140	6041	2SE	
ACP Advanced Communication Function	TPF2/ACF2	5748-T12/01		8025	3075							GH20-6200	2111,6081	2SE	
ACP Programming Language/Transaction 1.1		5796-PTN		5000	1435						24	.G320-9148	MVS,VM+ACP/TPF	1SH	
ACP TPF2 / High Performance Option	TPF2/HPO	5748-T12/02		21000	7000							GH20-6200	2112,6080	2SE	
<u>ACP Transaction Processing Facil 2.2</u>	<u>TPF2/ACF2</u>	<u>5748-T12</u>		<u>3210012300</u>								<u>GH20-6200</u>		<u>2SE</u>	
Airline Control Program ACP	RPQ-P09011	5799-WKG	nc									GE20-0423	VS1-VS2 (Off Line)	N0SX	
EDX Communications Facility - Airlines		5798-ZZE	1210		55						24	.GB30-1550	Series/1	1SX	
Energy Management System	EMS	5740-U11	163650		7440						60	.GH20-1496	05/VS1	2IB	
Fare Quote / Ticketing		5736-T11	124850		5675							.GH20-0873	ACP	0IB	
<u>Fare Quote / Ticketing Tariff Maint Feat</u>		<u>5736-T11/01</u>	<u>249900</u>		<u>11360</u>							<u>.GH20-0873</u>	<u>6030,6031,6049</u>	<u>0IB</u>	
Motor Freight Revenue Accounting	MFAS	5726-T21	8030		420							.GH30-0413	System/34	1IX	
+Network Extension Facility Version 2		5799-CDX	70000										3725+MVS/VTAM	2SM	
Vehicle Maint - Parts Inventory		5796-RGG	10640		968							12	.GB30-1680	System/38	1SX

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CADAM (R) 3D Piping		5796-BFN	41730	2730	910	26150	1830	610					5668-840	1SE
CICS Application Development Archit V2		5796-PMJ	12100									.G320-9168	CICS	1SH
Customer Information Control System	CICS/VS	5746-XX3			686			617	149	238		GC33-0155	DOS/VSE	2SK
Customer Information Control System 1.7	CICS	5740-XX1			5730	1910		42901430	256	280		GC33-0155	MVS, XA	2SK
<u>Customer Information System</u>	<u>CIS ADS</u>	<u>5712-AAA</u>	<u>24860</u>		<u>2260</u>							<u>12.GE20-0441</u>	<u>OS/VS</u>	<u>0SE</u>
Customer Information System Design Svc	CIS ADS	5712-AAA/01	4385		399							12.GE20-0441	9096	0S
Distribution Construction Information	DCIS ADS	5712-AA8	60500		5500							12.GE20-0613	DOS/OS/IMS/CICS/VS	0SC
DPPX Power Plant Maintenance		5798-DED	2055		187							12.GB21-2729	DMS/DPPX	1SH
Geo-Facilities Data Base Support	RPQ-P09030	5799-BEB	44550		2025							36.GH20-2482	IMS+5799-AYB	2SB
<u>-Graphic Online Diagram Display</u>	<u>GOLD</u>	<u>5798-CMX</u>	<u>21780</u>		<u>990</u>							<u>24.G320-6059</u>	<u>MVS/TSO VM/CMS</u>	<u>1SH</u>
+Graphics Attachment 3277GA, 5080	RPQ-P09013	5799-AXX	4000		150							GH20-2146	VM/CMS, MVS/TSO	1SE
+Graphics Program Generator 3277GA/5080	OPG Rel 2	5668-941			7000	1250						GH20-5620	VM, MVS+5799-AXX+FORT	1SE
+Land Ownership Tax Mapping	LOTMAP	5796-PXX	10000									.G320-0359	Graphic Prog Genertr	2SH
PDQ7 V2		5798-CBT			2075							12.GB21-1465	OS/VS+FORTRAN	1SH
<u>Public Utility Customer Service</u>		<u>5798-NQG</u>	<u>3465</u>		<u>315</u>							<u>12.GB30-1159</u>	<u>System/34</u>	<u>1SH</u>
<u>-Specialized Terminal Interface Processor</u>		<u>5798-RBQ</u>	<u>2900</u>		<u>132</u>						<u>24.</u>		<u>Series/1</u>	<u>1SH</u>
Utility Work Management Starter System		5798-DTC	8250		375							.G320-0797	MVS+CICS+IMS	1SH



## **VM**

**An operating system descended from its ancestor CP67 in 1967. Unlike any other system it has a fascinating architectural characteristic... It can replicate miniatures of the System/370 and itself!**

**Each user is presented a dedicated and exclusive Virtual Machine—a personal computer! He may run his computer with S/370 operating systems—MVS, VSE, even another VM. For personal computing CMS is the preferred monitor.**

**This is a world characterized by skilled and creative professionals, authors, engineers and scientists. VM can be tailored to be friendly and forgiving to the nontechnical user—a standout reason for its popularity.**

**Most significant announcement in this edition is native SNA support implemented by ACF/VTAM. Of major importance are the newly announced programs to connect the Personal Computer as a workstation. Connectivity between VM and the PC is featured in several articles in the rose pages.**

Program Title	Short Name	Number	OTC	ILC	MLC	DSO	DSI	DSM	MLP	MHL	Mo	MoreInfo	Environment	TPLS
ACF / VTAM Version 3.1.1		5664-280		5555	1175		2640	880	247	395		GC30-3246	VM	25K
APL Data Interface - Version II	APL/DI II	5796-PNG	10740		356							.G320-6348	VM/CMS with VSAPL	15X
-Application Enabling Facility	AEF	5798-DBF	2790		127							.GB21-2551	VM/CMS	15C
Basic System Extensions VM/BSE	BSEPP	5748-XX8			181			135	44	70		GC20-1828	VM	25X
<u>BASIC/VM Release 2</u>		5668-996	7000	1125	375	6300	843	281	38	61		GC26-4023	VM/SP	15K
Batch Subsystem		5796-BCY	1100									.G320-6660	VM/CMS	15H
CADAM (R) Express	IPO	5750-VME	varies									GH20-6487	VM,5080 or 3250	VI5E
CADAM (R) Express - Base		5664-286	126000	8560	3315							GH20-6487	5750-VME	15E
CADAM Express Worksploit Color Random		5664-286/01	6250										4532	15E
CADAM Express Workstation Extension		5664-286/02	97720	30330	1185	23620	16850					2113,4527,4528		15E
CICS/CMS PC/370		5668-795/01	900		50									25E
+Classified Data Erasure Program	C.D.E.P.	5798-DXN	5000									GC26-4269	VM,MVS	15S
-CMS Exec Enhancements		5796-PJA	1690		154							12.G320-5728	VM/CMS	11H
CMS Fundamentals II		5798-DGJ	1980	360	120							.GB21-2855	IIS,IIPS	1EX
CMS Sort Plus Extensions XT/370		5798-BDM/02	132										3037	05C
CMS/Extended Data Array Capability 1.1		5798-DMA	23000									.SH20-6958	VM/XA Migration Aid	25H
-Control & Accounting Programs		5798-AYP	561		51							12.GB21-1110	VM/CMS	15H
Cooperative Viewing Facility Version 2	CVIEW	5664-296	5280		330							.G520-6005	VM	25A
Cryptographic Information Protection	IPS	5796-PPK		360	132							24.G320-6644	VM/CMS	15X
CSP Execution - VM/CMS		5668-945/02		700	120		540	90	22	35			4537,2121,9537,2321	25K
+Customer Information Control System/CMS	CICS/CMS	5668-795	15000		835	13500		750				GC33-0284	VM,VM/PC	25M
CVIEW Upgrade from Version 1 to 2		5664-296/01	1375										5298,5299	25A
Directory Maintenance	DIRMAINT	5748-XE4			112				84	30	48	GC20-1836	VM/SP/CMS	15K
-Diskette Copy		5796-PHT	781		71							12.G320-6406	VM/CMS	15H
Display Management System / CMS	DMS/CMS	5748-XXB			40				27	9	14	GC29-5197	VM/SP	15K
-Displaywriter Bisynch Support to PROFS		5798-DKR	4250	472	172							.GB21-3016	VM/SP + RSCS	15X
DITTO		5668-917		231	94		210	85	7	11		.GH19-6103	VSE,VM	15K
DMS/CMS XT/370		5748-XXB/01	144		4								3005,3009	05C
E/S (3) PF Release 2	IPO	5664-283	2000		107	1800						6520-0118	E/S (3)	25K
-Engineering/Scientific Support Sys-Entry	E/S3-Entry	5750-ESE	varies									6520-0118	Replaced by VMES3	VO5I
Entry Level Interactive Application Syst	ELIAS-I/VM	5748-XXK	8005		364	5960		271	28	46		.GH19-6157	VM/CMS, CICS/VS, DL/I	15K
Environmental Recording Editing Printing	EREP 3.2	5654-260	nc									GC28-1378	VM,VM-HPD,VM/XA	NO5S
+File Transfer Program Version 2.2		5664-315	11250		450	8437			337			.GH12-5141	VM+VTAM	25M
File Transfer Program Version 2.2	FTP	5668-932	11250	1500	450	8437	1125	337	90	144		.GH12-5141	VM,VSE+VTAM	15K
-Graphic Subroutine Package		5796-PPR			90							24.G320-6657	VM/SP	15X
Information / VM-VSE	INFO/VMVSE	5668-919			150							.GC34-2070	5665-952	05C
Information System Model & Architecture	ISMOD	5785-FBA	14300		650							.G320-9235	MVS,VM	15H
Information/Management Version 2		5664-953		3155	363		2354	270	25	40		.GC34-2185	VM+Info/Sys Version2	15K
+Information/Management Version 3		5664-322	8800		500	6600		375	44	70		.GC34-4045	Info/Sys V3+VM	15K
+Information/Management Version 3		5665-383	8800		500	6600		375	58	93		.GC34-4045	Info/Sys V3+MVS	15K
Information/System Version 2		5664-952		2705	311		2033	233	49	72		.GC34-2185	VM+ISPF	15K
+Information/System Version 3		5664-323	8000		450	6000		337	52	83		.GC34-4045	VM	15K
Interactive Executive for System/370	IX/370	5667-126	10000						495	792		GC33-6207	VM+Series/1	T25K
Interactive File Sharing	IFS	5748-XXC			52				39	16	26	GC24-5195	VM/CMS	15K
Interactive Problem Control System	IPCS	5748-SA1	1100		55	787			36	6	10	.GC34-2019	VM/CMS	15K
Interactive Productivity Facility 5.3	IPF	5748-MS1			50			36	6	10		GH20-5304	5664-167,5748-SA1	15K
Interactive System Productivity Facil2.2	ISPF	5664-282			575	189		431	141	9	14	.GC34-2181	VM	15K
IPF XT/370		5748-MS1/01	196		4								3004,3010	05K
ISPF / Program Development Facility	ISPF/PDF	5664-172			1235	206		925	128	19	31	.GC34-2078	VM/CMS	15K
ISPF Program Development Facility 2.2	ISPF/PDF	5664-285	10450	3780	540	9405	2835	404	10	16		.GH34-2181	VM	15K

Program Title	Short Name	Number	OTC	ILC	MLC	DSO	DSI	DSH	MLP	MML	Hc	MoreInfo	Environment	TPL2
JES2 Information Retrieval System - CMS		5796-AYD	3960		300							.G320-6334	VM/CMS	15H
McGill U System Interactive Computing V	MUSIC	5796-PQA			624							.G320-6629	VM/CMS	15X
*MVS/Extended Architecture Offering 1985	MVS/XA	7798-XA0	nc										non-MVS	N2SK
Network Communications Control Facil V2	NCCF	5664-175		1920	320		1740	290	33	44		GC23-0108	VM+ACF/VTAM3	15K
Network Design and Analysis	NETDA	5664-202	15000		750								VM+APL2 or VSAPL+GDDM	25E
Network Logical Data Manager 1.3	NLDM	5668-971		1305	207			979	155	24	38	GC23-0108	MVS, VM, VSE+NCCF	15K
Network Problem Determination Applicatn	NPDA 3.2	5664-190		1350	225			1010	169	20	32	GC23-0108	VM	25K
+Overlay Generation Language/VM		5664-293	7670		295							G520-5102	VM	25M
Pass-Through Facility	PVM	5748-RC1	3000		185	2700		139	90	144		GC24-5206	VM/SP, VM/BSEF, VM/SE	15K
PC Bond Release 2		5664-298	2000		135							GH24-5089	VM+VM Bond	25E
Personal Decision Series - Attachment/VM		5664-290	17600		800							.GH30-9028	VM+ISPF+6316971	15E
+Print Management Facility/VM		5664-310	8450		325							G520-5102	GDDM+VSAPL/APL2	25M
+Print Services Fac - 3800 Chan Attach	PSF/VM	5664-198/02	13375		510	10031		383				G544-3415	4788, 4787, 6549, 6560	25H
+Print Services Fac - 3820 Comm Attach	PSF/VM	5664-198/01	4000		200	3000		150				G544-3415	4789, 4790, 6586, 6597	25M
+Print Services Facility/VM	PSF/VM	5664-198	9230		355	5923		267				G544-3415	VM+3800, 3820	25M
RACF/VM	RPQ P88028	5767-002		750	250		564	188	32	51		SC34-2296	VM	25K
Realtime Monitor	RTM	5796-PNA	1000		50							.G320-6165	VM/CMS	15E
Remote Job Entry Workstation	RJE	5746-RC9	3780		135							.GH20-2199	VSE To VM, OS/VS	15B
Remote Spooling Communication Subsystem	RSCS/SNA	5796-PXF	3850									.G320-0323	VSE+VM+6670 line dvr	15X
Remote Spooling Communications / SNA	RSCS/SNA	5798-DMJ	4950									.GB21-3050	VM+RSCS	15X
Remote Spooling Communications Subsys V1	RSCS	5748-XP1			111			83	38	61		GH24-5004	VM/SP	15K
Remote Spooling Communications Subsys V2	RSCS	5664-188	6300		337	5355		287	38	61		GH24-5005	VM	15K
Resource Limiter		5798-DKN	2475									.GB21-3005	VM	15X
Screen Definition Facility	SDF	5664-178		1685	294		1265	200	44	70		.GH19-6089	VM	15K
+Salt-Teach, The Online XEDIT Tutorial		5798-DHM	1500									.G320-9499	VM	25H
Serial OEM Interface Access Method	SOEMI	5664-201	2500		139							GA33-1585		25E
Series/1 Terminal Interface (to VM/IX)	STIPS	5799-BXL	3400									GH20-6410	VM/IX+FDX ASCII term	35E
Sort		5798-BDM	1025									.GB21-1376	VM/CMS	15J
Sort Extensions		5798-BDM/01	nc									.GB21-1376	4606	N15J
Struct/Merge Version 2		5746-SM2			108			81	14	22		GC33-4043	DOS/V5, VSE, VM/SP	15K
Structured Programming Facility / CMS	SPF	5748-XT3	13440		448							.GH20-2197	VM/CMS MVS	15X
System Productivity Facility	SPF	5668-009			241			180	48	77		GC34-2039	Superseded by ISPF	15C
The Information Facility	TIF	5798-DLK	20000	4280	1070	18000						GC26-6000	VM	25A
Virtual Machine / Personal Computer 1.1	VM/PC	6024-175	1150									G520-1095	XT/370, AT/370	05H
Virtual Machine / 370	VM	5749-010	nc									GC20-1800	S/370, 4300, 303x, 308x	N05J
Virtual Machine Interactive Executive	VM/IX	5799-BXN	47000									GH20-6410	VM+STIPS (5799-BXN)	35E
Virtual Machine Monitor Analysis	VMMAP	5664-191	4000		270							.C342-164	VM	15E
Virtual Machine Productivity System	VMPS	7798-VMP	nc										Information Network	N05C
Virtual Machine System Extensions VM/SE	SEPP	5748-XE1		1435			1076	197	315			GC20-1827	VM/CMS	25C
Virtual Machine/System Product Rel 4	VM/SP	5664-167		443				332	69	110		GC20-1838	S/370, 4300, 303x, 308x	25G
Virtual Spooled Reader Display		5796-AYK	1055									.G320-6338	VM/CMS	15H
-Virtual Tape Librarian	VLIB	5796-PNZ	1104		46							.G320-6421	VM/CMS	15J
VM Bond Release 1		6317-007	125									GH24-5089	PC, XT, XT/370+PCBond	05H
VM File Storage Facility	FSF	5798-DMY	1100									.GB21-3084	VM	15H
VM High Performance Option Rel 4.0, 4.2	HPO	5664-173		5325	1775		3993	1331	136	218		GC19-6221	VM/SP	25K
VM HPO Support for 3880		5798-DRJ	2200									.G320-9225	CMS+HPO	15H
VM Interface Program for TCP/IP		5798-DRG	18700		850							.G320-9219	VM+EDX/RPS/DACU	15J
+VM Interpreter Interface to SQL		5798-DXT	4900		225							.G320-9508	VM+SQL	15H
VM Performance Planning Facility	VMPPF	5664-179	24000		2000							.GC34-2126	VM+APL+FORTRAN+GDDM	15I
VM Predictor Data Reduction Package	RPQ P88024	5799-DHR	nc										VM	N05I

Program Title	Short Name	Number	OTC	ILC	MLC	DSO	DSI	DSH	HLP	HML	Mo	MoreInfo	Environment	TPLS
VM/CMS to OS/VSI Command Facility		5796-PQN	1650	330	100							.G320-6655	VSI under VM	1SX
VM/PC Bond Technical Coordinator SuptPkg		6314-143	275									GH24-5089	PC Bond+PC,XT,XT/370	0SH
+VM/PC Host Server		5664-319	2000		135								VM+VM/PC on AT/370	1SX
+VM/Remote System Programming	VM/RSP	5750-EXT	varies										VM	V0SE
VM/SP Entry Engineering/Scientific Enhanc		5664-301/01	varies		569	9000								V2SM
VM/SP Entry Engineering/Scientific Enhanc		5750-ES1/01	varies		569	9000								V2SM
VM/SP Entry Rel 2	VM/Entry	5664-301	varies		2000	36000							4300	V2SK
VM/SP System Base Rel 2	IPO	5750-ES1	varies										G520-0118	VM
VM/SP System Offering 4.0	SIP0/E	5750-AAK	varies										GC20-1890	VM/SP
VM/XA Migration Aid Remote 3270 Option		5664-183		2400	800		1800	600	42	67			GC23-0126	VM/XA+VM Pass-thru
+VM/XA Realtime Monitor/Systems Facility		5798-DHD	7500										SH26-7000	VM/XA
VM/XA Systems Facility Rel 2		5664-169		11220	3740		84152805	623	997				GC19-6213	4381,308x,3090
VMBACKUP Management System		5664-291	12600		632								.G320-0659	VM
VMTAPE Management System		5664-292	10920		575								.G320-0659	VM
VM3812 Pageprinter VM Support		5798-DTE	1900										.G320-0799	VM
VSE/VSAM		5746-AM2			82			74	24	38			GC24-5143	DOS/VSE,VM/SP
VTAM Communications Network Applications VM/VCNA		5735-RC5		1100	402		825	302	135	215			GC27-0501	VM/SP+DOS/VSE,VSI
Waterloo and MATCOM Languages for VM		5793-AAP/01	6600										9504	0SF
Waterloo HOSTCM		5793-AAN/03	330										2003	0SF
Waterloo PC Network Channel Attached		5793-AAN/01	nc										.GB30-2411	2001
Waterloo PC Network Standalone Server		5793-AAN	1650										.GB30-2411	DOS+RPS on Series/1
Waterloo PC Network VM Server		5793-AAN/02	1650										.GB30-2411	2002
Yale ASCII Communications - Host Loaded		5798-RRJ	4070										.GB30-2317	VM to EDX to 4994
3101 VM Pass-Through Support	PVM/3101	5796-PPF	170										.G320-6657	VM/SP,VM/BSEP,VM/SE
3270-PC Control Program 1.2.2		1837-434	329										G520-1107	DOS 2 or 3
3270-PC File Transfer Program		5664-281	600										G520-3917	VM+3270-PC CP
5210 Full Function Support		5798-DTA	3850										.G320-9254	VM+5210G Printer
6670 Usability Aid		5798-DQF	5500		250								.G320-0368	VM+6670

Program Title	Short Name	Number	OTC	ILC	MLC	DSO	DSI	DSH	MLP	MML	Mo	MoreInfo	Environment	TPLS
Access Control Logging and Reporting	VSE/ACLR	5746-XE7	2360		63	2125		57	24	38		.GH12-5130	DOS/VSE,SSX/VSE	15K
Advanced Functions		5746-XE2	2472		219	1836		164	60	96		.GC33-6106	DOS/VSE	15C
Basic Telecommunications Access Method	BTAM-ES	5746-RC5			44			40	7	11		.GC38-0292	DOS/VSE	15K
Batch to SSX/VSE Conversion Aid		5785-KAJ	407									.G320-9191	SSX/VSE	15X
-Chained CCH Print Subroutine		5796-ARM	385									.G320-5828	DOS/VSE	15H
-DASD Device Independence Open	DI-Open	5798-AHM	1080		49							.GB21-1002	DOS/VSE	01H
DASD DI-Open Enhancement		5798-AHM/01	150									.GB21-1002	9534	01H
-Data Compression / Expansion		5798-ATB	106									.GB21-0938	DOS/OS	05H
Data Interfile Transfer, Testing & Opern	DITTO	5746-UT3	968		44	748		34	5	8		.GH19-6072	DOS/VSE	15K
DITTO		5668-917		251	94		210	85	7	11		.GH19-6103	VSE,VM	15K
-DITTO		5798-ARN	852		81							.GB21-2190	DOS	11H
DITTO Enhancements		5798-ARN/01	150									.GB21-2190	9500	11H
DITTO Enhancements		5798-CAF/01	150									.GB21-2190	9502	11H
DOS / Virtual Storage Extended	DOS/VSE	5745-030	nc									.GC33-6108	S/370,4300,303x,3083	NO5J
DOS Type-I Programs Running with DOS/VSE		5731-AA1	nc									DOS/VSE		NO5S
Downstream Load Utility	DSLUI	5668-006	3200	1015	124	2400	775	93	7	11		.GC33-6125	VSE,OS/VSE,SSX+VTAM	15K
Environmental Recording Editing Printing	EREP	5656-260	nc									.GC28-1378	VSE	NO5S
EREP SCP for VSE		5656-093	nc									.GC28-1178	Replaced by 5656-260	NO5S
Fast Copy Data-set Program		5746-AM4	499						5	8		.GC33-6081	DOS/VSE	15K
File Transfer Program Version 1	FTP	5748-XE6	1415		55	1060		40	5	8		.GH12-5129	Replaced by Version2	15K
File Transfer Program Version 2.2	FTP	5668-932	11250	1500	450	8437	1125	337	90	144		.GH12-5141	VM,VSE+VTAM	15K
Generalized Performance Analysis Report	GPAP/DOS	5798-DAA	1365		66							.GB21-2491	DOS/VSE	15E
-ICCF Automated Library Manager		5798-DJR	363									.GB21-2956	DOS/VSE	15X
-ICCF Library Scan		5796-PQB	660		50							.G320-6630	DOS/VSE,ICCF	15X
-ICCF/VSE Introduction		5798-DDX	660		60						12	.GB21-2709	IDS,IIPS	1EH
Info/MVS Direct Load Feature		5668-919/01			190								4788	05C
Information / VM-VSE	INFO/VMVSE	5668-919			150							.GC34-2070	5665-952	05C
Interactive Computing & Control Facility	ICCF 2.1	5666-302	5595		214	5035		192	12	19		.GX33-9011	VSE/AF/CICCS	15K
Interactive Computing & Control Facility	ICCF	5746-TS1			161			144	28	45		.GC33-6066	DOS/VSE+VTAM,BTAM-ES	15K
Interactive Problem Control	IPCS	5746-SA1	880	40	660			26	6	11		.GC34-2017	DOS/VSE	15K
Interactive Productivity Facility 5.3	IPF	5748-MS1			50			36	6	10		.GH20-5304	5664-167,5748-SA1	15K
Interactive System Productivity Facility	ISPF 1.1	5668-960		960	96		720	70	15	24		.GC34-2078	CICS/VSE+ICCF	15K
ISPF Program Development Facility 1.1	ISPF/PDF	5666-281		960	150		720	111	15	24		.GC34-2078	VSE+ICCF	15K
JCL Conversion Aid from VSE to MVS or XA		5798-DPH	11000		500							.G320-0440	VSE and MVS	15H
Job Entry Program	JEP	5746-XE6			258			193	38	61		.GH12-5129	DOS/VSE	15K
-Local Display Terminal Simulator		5798-DM4	3300									.GB21-3066	DOS/VSE	13X
MVS/Extended Architecture Offering 1985	MVS/XA	7798-XA0	nc										non-MVS	N23K
Network Logical Data Manager 1.3	NLDM	5668-971		1305	207		979	155	24	38		.GC25-0108	MVS,VM,VSE+NCCF	15K
OLTEP SCP		5656-092	nc									.GC33-6156	VSE	NO5S
Operator Communications Control Facility	OCCF	5746-XC5	5800		155	5220		139	13	21		.GC33-6113	VSE/AF Version 2	15K
POWER/VSE Entry 2	VSE/POWER	5666-273		498	166		447	149	33	53		.GC33-6168	VSE/AF Version 2	15K
Remote Job Entry Workstation	RJE	5746-RC9	3780		135							.GH20-2199	VSE To VM,OS/VSE	15B
Remote Spooling Communication Subsystem	RSCS/SNA	5796-PXF	3850									.G320-0523	VSE+VM+6670 line dvr	15X
Screen Definition Facility	SDF	5746-XTT	5345		243	3980		165	44	70		.GH19-6087	VSE or CICS/DOS/VSE	15K
Serial OEM Interface	SOEMI	5666-330	2500		139							.GA33-1585		25E
Small System Executive / VSE	SSX/VSE	5666-265	20000		1315	15000		922	123	197		.GC33-6143	4300	25K
Sort/Merge		5743-SM1	800		43							.GC33-4020	DOS	15C
Sort/Merge		5746-SM1	1600		72							.GC33-4030	DOS/VSE	15C
Sort/Merge Version 2		5746-SM2			108			81	14	22		.GC33-4043	DOS/VSE,VSE,VM/SP	15K
SSX/VSE CICS/VSE	RPQ 7R1041	5799-BNF/10	6000		369	5400		332					4892,4893,4894,4895	25K

Program Title	Short Name	Number	OTC	ILC	MLC	DSO	DSI	DSH	HLP	HML	Mo	MoreInfo	Environment	TPLS	
SSX/VSE C080L	RPQ 7B1034	5799-BNF/04	1655		101	1490		91					4864,4865,4866,4867	25K	
SSX/VSE DITTO	RPQ 7B1039	5799-BNF/08	175		25	157		22					4884,4885,4886,4887	25K	
SSX/VSE Fast Copy	RPQ 7B1033	5799-BNF/03	85		5	77		5					4860,4861,4862,4863	25K	
SSX/VSE ICCF	RPQ 7B1038	5799-BNF/07	1045		64	941		57					4880,4881,4882,4883	25K	
SSX/VSE IPCS	RPQ 7B1036	5799-BNF/05	260		15	234		14					4872,4873,4874,4875	25K	
SSX/VSE IPF	RPQ 7B1042	5799-BNF/11	85		5	77		5					4896,4897,4898,4899	25K	
SSX/VSE DCCF	RPQ 7B1040	5799-BNF/09	1565		96	1410		86					4888,4889,4890,4891	25K	
SSX/VSE Partial Function	RPQ 7B1030	5799-BNF	5390		331	4850		298	123	197	OC33-6143	4300	4852,4853,4854,4855	25K	
SSX/VSE POWER Version 2	RPQ 7B1031	5799-BNF/01	1305		80	1175		72					4876,4877,4878,4879	25K	
SSX/VSE Sort/Merge	RPQ 7B1037	5799-BNF/06	955		58	859		52					4856,4857,4858,4859	25K	
SSX/VSE VSAM (Incl Space Mgt+Backup/Res)	RPQ 7B1032	5799-BNF/02	1480		91	1330		82						N0SC	
Support for 3330 - 3333-11	RPQ-EF4346	5799-NHZ	nc									GH20-4376	DOS/VS		
-Tape Automation - Production Environment		5798-DGB	2520										GB21-2828	DOS/VSE	15H
Tape Automation for Production VSE		5798-DRY	2200										G320-0835	VSE	25H
UCC THO VSE to MVS Migration Aid	UCC2	5796-PMH	49500										G320-9190	VSE+MVS.XA	15H
-VIDEO/370 Reverse Extract II		5798-DHD	946	295	86						12	GB21-2893	DOS/VSE	15X	
VSAM File Definition Aid		5798-DPG	2200										G320-9170	MVS,VSE	15H
VSE Performance Tool	VSE/PT	5796-PLQ	6300		285								G320-6155	DOS/VS,DOS/VSE	15E
VSE/Advanced Functions	VSE/AF	5746-XE8			299			270	61	98			GC33-6108	DOS/VSE	15K
VSE/Advanced Functions Version 2.1	VSE/AF	5666-301	11430		438	10287		394	108	173			GC33-6189	VSE	15K
VSE/Distributed Systems Node Exec 1.1.0	VSE/DSNX	5666-284	3800		253	3420		228	41	66			SC33-6210	VSE+VTAM	15K
VSE/POWER Remote Job Entry Version 2	POWER/RJE	5746-XE3/01	3100		119	2325		107	23	37			GH12-5131	4564,4562,6502,6534	15K
VSE/POWER Shared Spooling - Version 2	POWER	5666-273/01			41			37	9	14			GH12-5131	6016,6017,6500	15K
VSE/POWER Shared Spooling Version 1	POWER	5746-XE3/02	1200		46	1080		42	9	14			GH12-5131	4565,4563,6503,6535	15K
VSE/POWER Version 1	POWER	5746-XE3	1800		68	1350		61	17	27			GH12-5131	DOS/VSE	15K
VSE/SP ACF/VTAM		5666-316/10	6815		265	6135		239							15
VSE/SP ACF/VTAM Feature		5799-BNB/10	5930		246	5335		222						4523,4934,4972,4973	15K
VSE/SP ACF/VTAM Feature		5799-BNC/11	6815		284	6135		256						4945,4996,4997,4581	15K
VSE/SP BTAM-ES (Includes 5747-CG1)		5666-316/09	592		42	535		38							15
VSE/SP BTAM-ES (Includes 5747-CG1)		5799-BNB/11	514		38	463		34						4935,4971	15K
VSE/SP BTAM-ES (Includes 5747-CG1)		5799-BNC/10	592		44	535								4946,4995	15K
VSE/SP CICS		5666-316/06	14620		641	13160		577							15
VSE/SP CICS/DOS/VS Feature		5799-BNB/07	12710		596	11440		537						4520,4931,4964,4965	15K
VSE/SP CICS/DOS/VS Feature		5799-BNC/07	14620		686	13160		617						4942,4988,4989,4578	15K
VSE/SP DITTO for VSE and VM		5666-316/08	1360		77	1205		70							15A
VSE/SP DITTO for VSE and VM Feature		5799-BNC/09	1360		82	1205								4943,4993	15K
VSE/SP DITTO for VSE/VM Feature		5799-BNB/09	1175		71	1055		64						4932,4969	15K
VSE/SP Fast Copy Feature		5666-316/07	454		22	409		20							15
VSE/SP Fast Copy Feature		5799-BNB/08	378		20	340		18						4516,4927,4966,4967	15K
VSE/SP Fast Copy Feature		5799-BNC/08	454		23	409		21						4574,4938,4990,4991	15K
VSE/SP Generation - Partial Function	RPQ 7B1001	5799-BNC	11190		365	10668		350	402	643	GH20-5547	37/30,4300,303x,3083		15K	
VSE/SP ICCF Feature		5799-BNB/01	4435		139	3990		125						4926,4952,4953,4515	15K
VSE/SP ICCF Feature		5799-BNC/01	5095		161	4585		144						4937,4976,4977,4573	15K
VSE/SP ICCF 2.1.0		5666-316/01	48500		2160	43650		1945	433	693				4540,4541,9540,9541	15K
VSE/SP POWER		5666-316/02	3875		155	3483		140							15A
VSE/SP POWER Feature		5799-BNB/02	3370		143	3035		129						4514,4954,4955,4925	15K
VSE/SP POWER Feature		5799-BNC/02	3875		166	3483		149						4936,4978,4979,4572	15K
VSE/SP POWER Shared Spool Feature		5666-296/01	1200		41	1080		37	9	14				4923,6507	15K
VSE/SP POWER Shared Spool Feature		5666-297/01	1200		41	1080		37	9	14				4924,4588,6508,6509	15K
VSE/SP POWER Shared Spool Feature		5799-BNB/03	1200		41	1080		37	9	14				4923,4956,4957	15K

Program Title	Short Name	Number	OTC	ILC	MLC	DSO	DSI	DSM	MLP	MML	Mo	MoreInfo	Environment	TPLS	
VSE/SP POWER Shared Spool Feature		5799-BNC/03	1200		41	1080		37	9	14			4924,4980,4981,4588	15K	
VSE/SP Production - Partial Function	RPQ 7B1000	5799-BNB	9733		318	8761		286	324	518		GH20-5347	S/370,4300,303x,3083	15K	
VSE/SP VSAM		5666-316/03	1567		79	1410		71						15	
VSE/SP VSAM Backup Restore Feature		5666-316/05	441		31	397		28						15	
VSE/SP VSAM Backup/Restore Feature		5799-BNB/06	384		28	346		25					4930,4963	15K	
VSE/SP VSAM Backup/Restore Feature		5799-BNC/06	441		33	397							4941,4987	15K	
VSE/SP VSAM Feature		5799-BNB/04	1360		73	1225		66					4517,4928,4958,4959	15K	
VSE/SP VSAM Feature		5799-BNC/04	1565		23	1505		71					4574,4939,4882	15K	
VSE/SP VSAM Space Management Feature		5666-316/04	713		42	641		38						15	
VSE/SP VSAM Space Management Feature		5799-BNB/05	621		38	560		34					4929,4961	15K	
VSE/SP VSAM Space Management Feature		5799-BNC/05	713		44	641							4940,4985	15K	
VSE/System IPO/E		5750-AAP	varies									GC20-2003	VSE/System Package	V	
VSE/System Package - Generation 1.1.0	VSE/SP	5666-297	46700		1970	42028		1775	402	643		GH20-5347	S/370,4300,303x,3083	15K	
VSE/System Package - Production 1.1.0	VSE/SP	5666-296	40610		1710	36550		1540	324	518		GH20-5347	S/370,4300,303x,3083	15K	
VSE/System Package 2.1.4 Refresh	VSE/SP	5666-316	48500		2160	43650		1945	433	693		GC33-6176	4300,303x,308x,S/370	25K	
VSE/System Product - Partial Function	RPQ 7B0919	5799-BNH	12490		502	11240		452	433	693			4300,303x,308x,S370	15K	
VSE/VSAM		5746-AM2			82			74	24	38			GC24-5143	DOS/VSE,VM/SP	15K
1400 Compatibility Access Routine		5798-CDB	500									.0821-1546	DOS/VS	11H	
3270 Bisync Pass-Through		5746-AMS	4755		217							.GH20-2403	DOS/VSE+CICS/VS	15X	
3390 Data Import from System/3		5746-AMS	1320									GC33-6062	DOS/VSE VSAM	03C	

Program Title	Short Name	Number	OTC	ILC	MLC	DSO	DSI	DSH	MLP	MML	Mo	MoreInfo	Environment	TPLS
Chained File DL/I Bridge		5748-XX3	14740		576							.GH12-5116	DOS/VS,OS/VS	15B
-Data Base Design Aid Version 2	DBDA	5746-XXQ	6460		323							.GH20-1626	DOS/VS	11C
Data Base Edit	DBEDIT	5798-DLL	6050									.G320-9195	SQL/DS+VM	15H
Data Dictionary - DB/DC		5746-XXC			491			367	91	146		.GH20-9193	DOS/VS,DL/I,CICS/VS	25K
-Data Dictionary Language Preprocessor		5798-DHG	808									.GB21-2902	DOS/VSE,DL/I	15X
-Data Dictionary Utilities		5798-DHQ	715									.GB21-2920	DOS/VS,DL/I	15X
Data Language / I	DL/I	5746-XX1			459			344	149	238		.GH20-1246	VSE,SSX	25K
Data Language / I Entry	DL/I ENTRY	5746-XX7	10290		468	7740		320	22	35		.GH12-5115	DOS/VS	25X
DCF Foreground - CMS TSO ATMS III	SCRIPT/VS	5748-XX9/01		180	60							.GH20-9158	6043,2107	15E
Decision Support / VSE 1.1	DS/VSE	5666-311	3075		182	2770		164	19	31		.GC33-6212	SSX,VSE	25K
Distributed Office Support System Ver 3	DISOSS	5666-270		1710	570		1275	425	176	282		.GC30-3085	CICS/VS+VSE	25K
DL/I		5666-275			429			322	126	201		.GH20-1246	SSX/VSE	25K
-DL/I - CICS/VS Test Prog. State Indust.		5796-ARN	1020		93						12	.G320-6053	DOS/VS	15H
-DL/I Advanced Programming Course II		5798-DJE	2860									.GB21-2937	IIS, IIPS	1EX
-DL/I Basic Programming Course II		5798-DGR	2860									.GB21-2872	IIS, IIPS	1EX
DL/I Data Base Dump		5796-AJE	440									.G320-8156	DOS/VS DL/I	15H
-DL/I Fast Scan Utility for DOS/VS		5798-CYJ	2570									.GB21-2380	DOS/VS DL/I	11H
-DL/I Map		5796-PCW	902		82						12	.G320-8159	DL/I DOS/VS	05H
DL/I Space Management Utilities	SMU	5796-PKF	2290		111							.G320-6072	DOS/VS DL/I	15E
DL/I to IMS Data Dictionary Migration		5798-DLN	2200									.G320-9196	VSE and IMS	15H
Entry Level Interactive Application SSX	ELIAS	5666-291		1165	224		876	167	14	22		.GH19-6269	SSX/VSE	15K
Entry Level Interactive Application Syst	ELIAS-I	5746-XXV	5190		236	3915		162	13	21		.GH19-6218	DOS/VSE,CICS/VS,DL/I	15K
Entry Level Interactive Application Syst	ELIAS-I/VM	5748-XXK	8005		364	5960		271	28	46		.GH19-6157	VM/CMS,CICS/VS,DL/I	15K
Generalized Information System	RPQ-8T0139	5799-ALX			589							.GH19-0082	DOS/VS,DL/I	15X
INTELLECT tm		5796-PYH	57000		3050							.G320-0161	VM+SQL/DS	25H
INTELLECT tm		5796-PYJ	12375		663							.G320-0161	VM+PL/I+GDDM+SQL/DS	25H
INTELLECT tm Graphics		5796-PWB	12375		663							.G320-9161	SQL/DS+CICS/VSE	25H
IX INFORMIX Embedded Query for C		5796-TBD	9000									.G320-0803	IX/INFORMIX	15H
IX INFORMIX Embedded Query for COBOL		5796-TAY	9000									.G320-0803	IX/COBOL	15H
IX INFORMIX tm		5796-TBE	14000									.G320-0803	IX/370	15H
Professional Office System	PROFS	5664-176	22000	5000	895	19790	3745	710				.GH20-5601	VM	25B
PROFS Note Maintenance Facility		5798-DRT	1500									.G320-0796	PROFS	25H
+Query.DL/I for CICS/VSE		5785-EDA	12500									.G320-0839	DL/I	15H
Small System Executive / VSE	SSX/VSE	5666-265	20000		1315	15000		922	123	197		.GC33-6143	4300	25K
SQL / Data System - Relational Structure	SQL/DS 3.5	5748-XXJ			464			347	144	230		.GH24-5012	DOS/VSE,SSX/VSE,VM	25K
SQL/DS Relational Design Tool		5798-DQL	4400									.G320-0654	VSE,VM	15H
STAIRS XT/370		5664-189/01	660		30								3003,3004	05C
Storage & Information Retrieval System	STAIRS/VS	5746-XXR4	22990		1045							.GH20-1832	CICS/DOS/VS	25B
Structured Query Language/Edit	SQL/DS	5798-DPJ	2750									.G320-9184	SQL/DS	15X
Structured Query Language/Edit	SQL/Edit	5798-DQY	3850									.G320-0348	VM+SQL/DS	15H
+VM Interpreter Interface to SQL		5798-DXT	4900		225							.G320-9508	VM+SQL	15H



Program Title	Short Name	Number	OTC	ILC	MLC	DSO	DSI	DSM	HLP	HML	Mo	MoreInfo	Environment	TPLS
Batch Transfer Program	BTP	5744-CG1	nc									.GC33-5901	OS/VS1	NOSC
Batch Transfer Program	BTP	5744-CH1	nc									.GC33-5901	SVS	NOSC
Capacity Planning Extended	CPX	5798-CYW	4410		189							.GB21-2391	OS/VS, 5798-CPR	11X
Chained Jobs Scheduling		5785-GAK	11320		858							.GB21-2869	OS/VS	15H
<u>Cryptographic Unit Support</u>		5740-XY6	11000		390	8250		292	33	53		.GC28-1015	OS/VS, MVS/XA	15K
Data Facility Device Support	DFDS	5740-AM6			90			67	25	40		.GC26-3954	OS/VS1+5662-257	15K
Data Facility Sort 1.8	DFSORT	5740-SM1			247			185	19	30		.GC33-4033	VS1, MVS, XA	15K
-Data set Migration and Planning Aid		5798-DCK	1745		159						12	.GB21-2614	OS/VS, MVS/XA	15H
Direct Access Storage Dump Restore	DASDR	5740-UT1	2800		167							.GH20-9116	OS/VS1, OS/VS2, OS/MFT	15C
<u>Diskette Copy Program</u>		5744-BJ1	nc									.GC24-5109	OS/VS1	NOSC
Distributed Workstation Support	IDWS	5740-XYE			174			130	36	58		.GC24-5193	OS/VS1	15K
DITTO		5798-ARD	858									.GB21-0857	OS, MVS/XA	11H
DITTO Extensions		5798-CDA	1320									.GB21-1549	OS	11H
Downstream Load Utility	DSLX	5668-006	3200	1015	124	2400	775	93	7	11		.GC33-6125	VSE, OS/VS, SSX+VTAM	15K
<u>File Transfer Program Version 1</u>	FTP	5748-XE6	1415		55	1060		40	5	8		.GH12-5129	Replaced by Version2	15K
General Performance Analysis Reporting	GPAR	5798-CPR	1710		83							.GB21-2091	OS/VS1, MVS, SVS	11E
Generalized Trace Facility Analysis	GTFPARS	5798-CQQ	2310		94							.GB21-2142	OS/VS, 5798-CPR	11E
MVT Support for 3350 / 3330-11	RPQ-EG4653	5799-ARG	3600									.GH20-9115	OS/MVT	11C
Operating System / Virtual Storage 2	SVS	5742-017	nc									.GC28-0601		NOSC
<u>Operations Planning &amp; Control</u>	OPC	5740-XT9	38390		1745	26950		1225				.GH19-6120	OS/VS	21L
OS/VS JCL, Learning to Code		5798-DAJ	1250									.GB21-2508	11S, 11PS	1EH
OS/VS1 Basic Programming Extensions	BPE	5662-257			259			194	48	77		.GC24-5218	OS/VS1+5740-AM6	15K
OS/VS1 Performance Tool	VS1PT	5796-PGL	6600		398							.G320-5680	OS/VS1	15X
OS/VS1 Release 7		5652-VS1	nc									.GC30-3057	S/370 Stabilized	N2SJ
<u>SMF Graphical Analysis Program</u>		5796-AFP			200						12	.G320-8127	OS/VS, MFT, MVT	11H
SMF Job Data Compression Aid	JDCA	5796-PHN	4290		187							.G320-5714	OS, OS/VS, MVS/XA	11X
Sort/Merge		5734-SM1	1600		66							.GC33-4022	OS/MFT/MVT	15C
System IPO for OS/VS1 Release 7		5750-AA8	varies									.GC20-1861	S/370	V
System Support Services	SSS	5744-CJ1	nc									.GC30-3022	SVS	N0SS
<u>Universal Dump, Alter, Copy, &amp; Select</u>	UDACS	5796-BAF			50						12	.G320-6405	OS/VS	15H
VM/CMS to OS/VS1 Command Facility		5796-PQN	1650	330	100							.G320-6655	VS1 under VM	15X
-VSAM Control Area Freespace Map Utility		5796-AYX	1185									.G320-6346	OS/VS	15H

<u>Program Title</u>	<u>Short Name</u>	<u>Number</u>	<u>OTC</u>	<u>ILC</u>	<u>MLC</u>	<u>DSO</u>	<u>DSI</u>	<u>DSM</u>	<u>MLP</u>	<u>MML</u>	<u>Mc</u>	<u>MoreInfo</u>	<u>Environment</u>	<u>TPLS</u>
File Transfer Express		6317-001		79								.3209-242	3270-PC CP+DOS 2.0	05M
File Transfer Program Version 1	FTP	5748-XE6	1415		55	1060		40	5	8		.GH12-5129	Replaced by Version2	15K
-Host Remote Node Entry System II		5796-PPL	2815		150							.G320-6647	OS/VS1	15E
Job Entry Program	JEP	5746-XE6			258			193	38	61		.GH12-5129	DOS/VSE	15K
MVS/SP - JES3 1.1		5740-XYN			2150			1612	117	187		.GC28-1395	5752-VS2	25K
MVS/SP - JES3 1.2 or 1.3		5740-XYN/01			230			172	400	640		.GC28-1395	6144,6524	25K
Operator Communications Control Facility	OCCF	5665-288		1050	350		786	262	8	13		.GC24-5225	MVS,NCCF,ACF/VTAM	15K
Operator Communications Control Facility	OCCF	5746-XC5	5800		155	5220		139	13	21		.GC33-6113	VSE/AF Version 2	15X
Pass-Through Facility	PVM	5748-RC1	3000		185	2700		139	90	144		.GC24-5206	VM/SP,VM/BSEP,VM/SE	15K
Remote Job Entry Workstation	RJE	5746-RC2	3780		135							.GH20-2189	VSE To VM,OS/VS	15B
Remote Spooling Communications Subsys VI	RSCS	5748-XP1			111			83	38	61		.GH24-5004	VM/SP	15K
VTAM Communications Network Applications	VM/VCNA	5735-RC5		1100	402		825	302	135	215		.GC27-0501	VM/SP+DOS/VSE,VS1	25K
3101 VM Pass-Through Support	PVM/3101	5796-PPF	170									.G320-6637	VM/SP,VM/BSEP,VM/SE	15E
3270 Bisync Pass-Through		5746-AM5	4755		217							.GH20-2403	DOS/VSE+CICS/VS	15X

<u>Program Title</u>	<u>Short Name</u>	<u>Number</u>	<u>QTC</u>	<u>ILC</u>	<u>MLC</u>	<u>DSO</u>	<u>DSI</u>	<u>DSH</u>	<u>MLP</u>	<u>MML</u>	<u>Mo</u>	<u>MoreInfo</u>	<u>Environment</u>	<u>TPLS</u>
Assembly Language		5708-AS1	1750		55	1310		41				GC21-7801	5280 Data System	15X
Communications Chain Facility - Batch		5798-RJK	275									.GB30-1801	5280 Data System	15X
-Construction Data Entry/Edit Support	CMAS	5798-RBZ	605		55							12.GB30-1516	5280 Data System	15H
Format Design Aid		5798-RCR	660									.GB30-1548	5280 Data System	15H
<u>Programmer Productivity - Debug</u>		<u>5798-RIA</u>	<u>495</u>									<u>.GB30-1903</u>	<u>5280 Data System</u>	<u>15X</u>
Programmer's Productivity Aid & T/E		5798-RHC	605									.GB30-1702	5280 Data System	15X
-System/34 to 5280 Report Transfer		5798-RDB	330									.GB30-1581	System/34	15X
Text Editor		5798-RLH	330									.GB30-1927	5280 Data System	15X
5280 Computer-Assisted Training		5798-RLF	550									.GB30-1923	5280 Data System	15X

<u>Program Title</u>	<u>Short Name</u>	<u>Number</u>	<u>OTC</u>	<u>ILC</u>	<u>MLC</u>	<u>DSO</u>	<u>DSI</u>	<u>DSH</u>	<u>HLP</u>	<u>MML</u>	<u>Mo</u>	<u>MoreInfo</u>	<u>Environment</u>	<u>TPLS</u>
-Applicant Processing		5798-RRC	434									.G320-9160	5520 Admin. System	1SX
Document Distribution to Remote	EDD	5798-RPJ	1540									.OB30-2213	System/36+5520	1SX
Service of Process		5798-DTJ	616									.G320-0364	5520	1SX
5520 Administrative Processing Prog 3.2		5611-SS2	10500		445							GC23-0702	5520 Admin. System	1SA
<del>5520 Attach Kit V3 (Feat 2896) Incl 289</del>		<del>6403-724</del>	<del>875</del>									<del>G520-3917</del>	<del>All except PCjr</del>	<del>0SC</del>
5520 Attach Version 3 (Feature 2895)		6403-725	384									G520-3917	All except PCjr	0SC
-5520 Documents - Host Store & Forward		5798-RHA	12100		1100						12.	.OB30-1690	TCAM, VTAM	1SX
5520 Installation Convenience Kit		6109-558/01	729										2882	0SE
5520 PC Attach Installation Kit		7033-703/01	893									G570-2026	2890	0SZ
<del>5520 Personal Computer Attachment Ver 1</del>		<del>7033-703</del>	<del>164</del>									<del>G570-2026</del>	<del>PC</del>	<del>0SZ</del>
5520 Personal Computer Attachment Ver 2		6109-558	284									G520-2045	PC, XT	0SE

Program Title	Short Name	Number	OTC	ILC	MLC	DSQ	DSI	DSM	MLP	MML	Mo	MoreInfo	Environment	TPLS
Cross System Product / Applic Developmt	CSP/AD	5660-284	4800		215	4080		150	25	40		.GH20-0940	DPPX/SP+5660-264	15K
Cross System Product / Applic Execution		5660-285	1365		60	1160		45	6	10		.GH20-0940	DPPX/SP	15K
Display Management System / 3790	DMS/3790	5748-XC2	7300		415							.GH20-2002	DOS/VS, OS/VS	15C
-Distributed Data Transfer - Host		5798-DCA	1210		110							12.GB21-2594	OS/VS, DOS+5798-DCF	15H
Distributed Office Support / 370 Ver 2	DISOSS/VSE	5666-264	29370		1335	22110		1005	214	342		.GH12-5139	DOS/VS & CICS/VS	25K
Distributed Office Support / 370 Ver 2	DISOSS/370	5668-982	29150		1325	21970		999	255	408		.GH12-5139	OS/VS, IMS/VS, CICS/VS	25K
Distributed Office Support Facility Rel6	DOSF	5761-XR1	12300		805	10455		683	115	184		GC27-0546	DPCX	15K
Distributed Office Support System Rel 3	DISOSS	5668-955	4320		235	3670		200	43	68		.GH12-5139	DOSF+DISOSS Ver 2/3	25K
Distributed Office Support System Ver 3	DISOSS	5665-290		4570	1485		3425	1110	223	357		GC30-3085	CICS/VS+MVS, XA	25K
Distributed Office Support System Ver 3	DISOSS	5666-270		1710	570		1275	425	176	282		GC30-3085	CICS/VS+VSE	25K
Distributed Processing Control Executive	DPCX Rel 6	5761-DS1	6900		472	5865		402	111	177		GC22-9075	8100	15K
Distributed Processing Programming Exec.	DPPX/SP R3	5660-281	19600		869	16660		738	312	499		GC23-0600	3100	25K
Distributed Processing Programming Exec.	DPPX/Base	5760-010	8400		335	7140		285	170	272		GC27-0400	8100	15K
Distributed Systems Executive Ver 2	DSX	5668-986		1220	468		915	350	44	69		.GH19-6229	VTAM/E, TCAM+8100	15K
DMS/3790 Interface Monitor	CIM	5748-XC2/01	4840		259							.GH20-2002	4538	15C
-DPCX Accounting System / Departmental		5798-DDL	1330		121							12.GB21-2688	DMS/3790, DPCX	15H
DPCX Automated Administration Activities		5798-DHB	1030									.GB21-2889	DPCX	15X
-DPCX Cardfile Facility		5798-DJG		300	115							12.GB21-2942	DPCX, MVS, DOS/VSE	15X
DPCX Development Management System	DMS/DPCX	5748-XC4	25730		939	19290		703	94	151		.GH20-2423	TSO, CICS, CMS	15K
DPCX DISOSS Extensions		5785-ECF	1690									G320-9209	DOSF	15H
-DPCX Distributed Data Transfer		5798-DCF	242		22							12.GB21-2594	5798-DCA	15H
DPCX DOSF Dialog Manager		5785-ECG	907									.GB21-3080	DPCX+DOSF	15X
-DPCX Outpatient Billing System		5798-DCP	3200		291							12.GB21-2626	DPCX	15H
DPCX Program & Panel Data Set Utility		5798-DHX	368									.GB21-2928	MVS, DOS/VSE	05X
DPCX Relative Sequential Data Sets File		5798-DJJ	346									.GB21-2949	DPCX	15X
DPCX 3790 - Text Enhancement Feature		5798-CZE/01			40							12.GB21-2431	6015	15H
-DPCX 3790 Distributed Entry Query		5798-CZE	2505									.GB21-2431	DOS/VSE OS/VS DOSF	15H
DPCX 3790 3770 Host Support		5747-BQ1	nc									GC22-9071	DOS/VS	N05J
DPCX/DOSF Host Prep		5735-XR3			250			187	81	130		GC27-0572	VTAM/E, TCAM	15K
DPCX/DPPX Host Command Facility Ver 2	HCF	5668-985			200			150	41	66		GC27-0453	VTAM/E+NCFF	15K
DPPX / DMS Execution Facility		5660-265	493		23	420		16	15	23		.GH20-2438	DPFX/DMS	15K
DPPX APL		5760-XR2		2730	455		2310	385	48	77		GH19-6208	DPPX Base & DPS	15K
DPPX APL Data Interface		5785-NAD	4300									G320-0173	DPFX	15X
DPPX Application IPO		5750-BA2	varies									GH20-5307	DPFX	V
DPPX Assembler		5760-AS1	2300		88	1955		75	18	29		GC27-0411	DPFX	15K
DPPX Automated Administrative Activities		5798-DHC	1070									.GB21-3077	DPFX	15X
DPPX Case Processing System		5785-UAB	4250			3600						G320-0827	DPPX Base or DPPX/SP	15H
DPPX COBOL Application Cross Reference		5798-DDJ	242		22							12.GB21-2672	DPFX	15H
DPPX COBOL Application Integrity Monitor		5798-DGZ	1100									.GB21-2885	DPFX	15X
DPPX COBOL Compiler		5760-CB1	4200		169	3570		143	27	43		GC26-3914	DPFX	15K
DPPX COBOL Runtime Library		5760-LB1	750		28	637		26	6	10		GC26-3914	DPFX	15K
DPPX Data Base Transaction Management		5760-TD1	4400		173	3740		147	20	32		GC26-3915	DPFX	15K
DPPX Data Capture and Management System	DCMS	5760-XR6	2440		139	1830		103	31	49		.GH20-2421	DPFX	15X
DPPX Data Compression - Controller		5798-DJN	330									.GB21-3007	DPFX + 5798-DJL	15X
DPPX Data Compression - Host		5798-DJL	1265									.GB21-2953	MVS + 5798-DJN	15X
DPPX Development Management System Defn	DMS/DPPX	5760-XC2	3175		185	3025		138	67	108		.GH20-2154	DPFX	15K
DPPX Development System	RPQ-P88016	5799-AZL			676							GC27-0505	OS/VS, DPPX	15B
DPPX Distb Document Formatting Facility	DDFF	5785-RAA	1980									G320-0355	8100	15X
DPPX Distb Plant Maint Work Order		5787-GAA/01	14850									.	6001	25
DPPX Distributed Connection Facility	DPCF	5798-DKX	990									.GB21-3025	DPFX	15X

Program Title	Short Name	Number	OTC	ILC	MLC	DSO	DSI	DSH	HLP	HML	Me	MoreInfo	Environment	TPLS
DPPX Distributed Plant Maintenance		5787-GAA	17600	1560	599							.GB21-2895	8100	25X
DPPX Distributed Presentation Serv Ver 1		5760-XR1	1500		56	1275		47	11	17		GC33-0090	DPPX	15K
DPPX Distributed Presentation Serv Ver 2		5660-264			180			135	18	29			DPPX	15K
DPPX DPCX Host Command Facility	HCF	5735-XR1			128			96	36	58		GC27-0453	OS/VS, DOS/VS	15K
DPPX DPS Format Management Feature		5660-264/02	1900		74	1615		63	18	29			9520,9521,9526,9527	15K
DPPX Extended Debugging Facility		5785-ECA		330	115							12.GB21-2935	DPPX	15X
DPPX File Print Utility		5798-DGG	297		27							12.GB21-2840	DPPX	15H
DPPX FORTRAN Compiler		5760-F01	3400		135	2890		115	27	43		GC27-0417	DPPX	15X
DPPX FORTRAN Library		5760-LM1	1700		65	1445		55	16	26		GC27-0417	DPPX	15X
DPPX Integrated Processing of Data & Text	IPDT	5785-DEL	4400									.G320-0356	8100	15X
DPPX Interactive Map Definition		5660-282	5300		212	4500		180	20	32		GC23-0600	DPPX/SP	15K
DPPX Interactive Map Definition Feature		5660-264/01	5300		212	4500		20	32			GC33-0122	6000,6009,6010	15K
DPPX Interactive Map Definition Feature		5760-XR1/01	3600		143	3060		121	17	27		GC33-0090	6000,6015,6014,6001	15K
DPPX Interactive Productivity Facility		5660-271	1175		45	998		38	12	19		GC27-0400	DPPX/BASE with 6006	15K
DPPX Load Evaluation Simulator		5785-FDB	5280		240							.G320-9210	COBOL	15H
DPPX Materials/Purchasing and Reporting		5796-PXH	99000									.G320-0353	DPPX+COBOL	15H
DPPX Mortgage Banking System		5798-DDN	6225		566							12.GB21-2691	DPPX/BASE	15H
-DPPX Payroll Management System		5798-DDD	3630		330							12.GB21-2666	DPPX/BASE	15H
DPPX Peer Data Transfer		5798-DJW	693									.GB21-2961	DPPX	15X
DPPX Performance Tool Monitor	PT/DPPX	5760-XR5	1890		69							.GH20-2155	DPPX	15B
DPPX Performance Tool Reporter Feature	PT/DPPX	5760-XR5/01	2205		80							.GH20-2155	4504,4505	15B
DPPX Performance Tool Version 2		5660-286	3850		280							.GH19-6072	8100	15E
DPPX PL/I Compiler		5760-PL1	10300		409	8755		347	41	66		GH19-6081	DPPX	15K
DPPX PL/I Library		5760-LM2	1890		75	1605		64	10	16		GH19-6081	DPPX	15K
-DPPX Plant Floor Collect & Lot Tracking		5798-DFG	3750		341							12.GB21-2881	DPPX+3640	15H
DPPX Power Plant Maintenance		5798-DED	2055		187							12.GB21-2729	DMS/DPPX	15H
DPPX Problem Determination Aid		5660-272	880		33	748		27	11	17		GC27-0648	DPPX+NPDA	15K
DPPX Programmed Operator Facility		5660-273	580			493		6	10			GC27-0400	DPPX	15K
DPPX Remote Job Entry Workstation		5760-XC1	1175		45	998		38	20	32		GC30-3053	DPPX to OS,VSE,VM	15K
+DPPX Report/Query		5796-TBH	1750			1500						.G320-9505	DFS+DBTM	15H
DPPX SDLC Auto-Answer	RPQ-ML2503	5799-BDE			27			20					8100/DPPX	15B
-DPPX Segmented Access Method	SAM	5796-BCQ			270							12.G320-6639	DPPX, DTMS	15X
DPPX Sort/Merge		5760-SM1	1000		39	850		33	16	26		GC26-3931	DPPX	15K
DPPX Spool Output Transcription		5798-DHM	660									.GB21-2926	DPPX	15X
DPPX System IPO		5750-BA1	varies									GC20-1883	DPPX	V X
DPPX Virtual Terminal Access Facility		5798-DFE	1375									.GB21-2802	DPPX	15X
DPPX 3270 Data Stream Compatibility		5760-RC1	750		28	637		24	38	61		GC27-0400	DPPX	15K
DPPX 3640 Interactive Transaction Gener	P53640	5660-267/01	8845		340	7510		289	52	83		GC31-0010	6002,6003,6012,6013	15K
DPPX 3640 Presentation Services Exec	P53640	5660-267	2125		82	1665		70	19	30		GC31-0010	DPPX/BASE	15K
DPPX 3640 Special Support Subroutines		5798-DEF	484		44							12.GB21-2719	8100/DPPX-COBOL	15H
DPPX/Base Command Facility Extensions		5760-010/01	680		25	578		21	11	17		GC27-0400	6006,6018,6019,6007	15K
DPPX/SP to 3270-PC File Transfer		5799-BRP	nc										DPPX and 3270-PC	NOSE
DPPX/3644 Parameter Table Generator	GEN3644	5760-ED1	312		27	240		21	7	11		GC24-5179	DPPX	15X
Interactive Display Text Facility		5668-956	3000		97	2550		73				GA33-3115	DOSF, DPCX, DPPX	15E
RJE File Transfer - DPPX to PC 3270 Emu		5799-BRQ	1010									GC23-0630	6024-036	05E
-Shadow File Manager		5785-DEN	660									.G320-9174	DPPX/SP,5760-010	15X
-3640 Industrial Termin - CICS Extensions		5798-DMC	3575									.GB21-3040	5660-267	15X
3640 Presentation Services - Transaction		5798-DMD	1455									.GB21-3042	5660-267	15X
-3730 Distributed Office Support for 6670		5798-DCW	1505		137							12.GB21-2631	CICS/OS/VS	15H
-3760 Batch Data Transfer under CICS/VS		5798-CQB	2110		192							12.GB21-2112	EXTM,TCAM,VTAM	15H

Program Title  
3790 3770 Host Support

Short Name Number  
5744-823

OTC ILG  
nc

PSQ PSI PSH RLP RHL RQ MoreInfo Environment  
GC22-9071 05/VS

TPLS  
NOSX





## Notes

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## Notes

## **Section Five**

## **Program Number Sequence**





Number	Program Title	Short Name	QTC	ILC	MLC	DSO	DSI	DSM	HLP	MML	Mo	MoreInfo	Environment	TPLS
1596-802	Chi Sperry Emulation		795									6570-2231	PC,XT	05E
+1642-003	Asynchronous Server for Token & PC Netwk		495										Token-Ring NETBIOS	05Z
1642-004	Personal Telephone Mgr/Voice Comm Option		70										PC,XT,AT+VoiceCommun	05G
-1753-180	High Level Language Applic Prog Interfce		139									.6520-1107	3270-PC CP+DOS2	05H
1753-369	PC Interactive Executive	PC/IX	989									GH20-6247	PC,XT,XT/370,AT+10MB	05E
1837-434	3270-PC Control Program 1.2.2		329									6520-1107	DOS 2 or 3	05M
1887-697	3270-PC Graphics Control Program (1507)		450										3270-PC/G or GX	05H
+1887-959	Graphics CP 3.2, Upg from 2.0		100										GCP 2.0	05M
+1887-961	Graphics CP 3.2, Single update from 3.1		nc										GCP 3.1	NOSM
+1887-962	Graphics CP 3.2, Addl update from 3.1		55										GCP 3.1	05M
1887-970	Graphics Control Program Upgrade to V3		100									GA33-3157	3270-PC GCP Ver 2	05H
+4421-519	Color Graphics Charting	GGXC	395									SC33-0223	3270-PC Graphics CP	05M
4421-760	Color Graphics Editor and Picture Plot		385									GA33-3141	3270-PC/G or GX+GCP	05H
+55X3-364	5250 Enhanced Emulation 2.1 Convence Kit		845									6570-2221	PC,XT,AT,PPC	05Z
5601-006	Corporate Cash Manager	CCM	4400									GH20-0391	PC,XT	05H
-5608-AX1	Administrative Support Implementation		220										Displaywriter	01C
-5608-AX2	Applicant Processing Implementation		220										Displaywriter	01C
-5608-AX3	Personnel Reporting Implementation		220										Displaywriter	01C
-5608-MA1	UCSD p-System (R) Pascal Compiler		250									G552-0371	5608-MS2	15X
-5608-MA2	UCSD p-System (R) FORTRAN 77 Compiler		250									G552-0371	5608-MS2	15X
-5608-MA3	UCSD p-System (R) Code Generator		150									G552-0371	5608-MS2	15X
-5608-MS1	UCSD p-System (R) Runtime System		375									G552-0371	Displaywriter	15X
-5608-MS2	UCSD p-System (R) Development System		950									G552-0371	Displaywriter	15X
-5608-SRA	Chartpack		410									G544-2215	Displaywriter	05E
-5608-SRB	Legal Extended Spelling Dictionary		195										Textpack 6	05E
-5608-SR1	Asynchronous Communications		260									G544-0851	Displaywriter	05E
-5608-SR2	Binary Synchronous Communications		260									G544-0851	Displaywriter	05E
-5608-SR3	Magnetic Card Conversion		525		240							G544-0851	Displaywriter	05E
-5608-SR4	Languagepack		335									G544-0851	Displaywriter	05E
-5608-SR5	Reportpack		320									G544-2099	Displaywriter	05E
-5608-SR6	3270 Data Stream Compatibility		600									G544-2049	Displaywriter	05E
-5608-SR7	Languagepack 2		450									G544-0851	Displaywriter	05E
-5608-SR8	Electronic Document Distribution	EDD	565									G544-2139	Displaywriter	05E
-5608-SR9	3270 Attached Work Station		600									G544-2207	Displaywriter	05E
-5608-TRE	Textpack E - Entry Level		55									G544-2188	Displaywriter 128K	05E
-5608-TR2	Textpack 2		320		180								Displaywriter	05E
-5608-TR4	Textpack 4		400									G544-2096	Displaywriter 256K	05E
-5608-TR6	Textpack 6 - Advanced Functions		865									G544-2187	Displaywriter 320K	05E
5611-552	5520 Administrative Processing Prog 3.2		10500		445							GC23-0702	5520 Admin. System	15A
5652-VS1	OS/V51 Release 7		nc									GC30-3057	S/370 Stabilized	N25J
5654-260	Environmental Recording Editing Printing	EREP 3.2	nc									GC28-1378	VM,VM-HPO,VM/XA	N05S
5655-257	Device Support Facility for MVS/XA 1.8	ICKDSF	nc									GC26-3946	3340,3344,3350,3380	N05S
5656-092	OLTEP SCP		nc									GC33-6156	VSE	N05S
5656-093	EREP SCP for VSE		nc									GC28-1178	Replaced by 5656-260	N05S
5656-260	Environmental Recording Editing Printing	EREP	nc									GC28-1378	VSE	N05S
5658-001	3694 Independent Release		nc									GC31-0013	OS/V5, DOS/VSE	N05S
5658-260	Environmental Recording Editing Printing	EREP	nc									GC28-1378	V51,MVS,XA	N05S
5658-997	PSS Application Installation Facility	AIF/PSS	nc									GC30-3060	MVS+ISPF+BTAM,VTAM	N05C
5660-264	DPPX Distributed Presentation Serv Ver 2				180			135	18	29			DPPX	15K
5660-264/01	DPPX Interactive Map Definition Feature		5300		212	4500						GC33-0122	6000,6009,6010	15K

Number	Program Title	Short Name	OTC	ILC	MLC	DSO	DSI	DSM	HLP	MML	Mo	ForeInfo	Environment	TPLS	
5660-264/02	DPPX DPS Format Management Feature		1900		74	1615		63	18	29			9520,9521,9526,9527	1SK	
5660-265	DPPX / DMS Execution Facility		493		23	420		16	15	23		.GH20-2438	DPPX/DMS	1SK	
5660-267	DPPX 3640 Presentation Services Exec	PS3640	2125		82	1665		70	19	30		GC31-0010	DPPX/BASE	1SK	
5660-267/01	DPPX 3640 Interactive Transaction Gener	PS3640	8845		340	7510		289	52	83		GC31-0010	6002,6003,6012,6013	1SK	
5660-271	DPPX Interactive Productivity Facility		1175		45	998		38	12	19		GC27-0400	DPPX/BASE with 6006	1SK	
5660-272	DPPX Problem Determination Aid		880		33	748		27	11	17		GC27-0648	DPPX/NPDA	1SK	
5660-273	DPPX Programmed Operator Facility		580			493			6	10		GC27-0400	DPPX	1SK	
5660-281	Distributed Processing Programming Exec.	DPPX/SP R3	19600		869	16660		738	312	499		GC23-0600	3100	2SK	
5660-282	DPPX Interactive Map Definition		5300		212	4500		180	20	32		GC23-0600	DPPX/SP	1SK	
5660-284	Cross System Product / Applic Developmt	CSP/AD	4800		215	4080		150	25	40		.GH20-0940	DPPX/SP+5660-264	1SK	
5660-285	Cross System Product / Applic Execution		1365		60	1160		45	6	10		.GH20-0940	DPPX/SP	1SK	
5660-286	DPPX Performance Tool Version 2		3850			280						.GH19-6072	8100	1SE	
5662-257	OS/VS1 Basic Programming Extensions	BPE				259		194	48	77		GC24-5218	OS/VS1+5740-AM6	1SK	
5662-262	Teleprocessing Network Simulator 2.3	TPNS				1875						GH20-2487	MVS, XA, VM	1IE	
5662-280	ACF/VTAM - Version 2	VTAM			1970	657		1478	493	94	150	GC27-0608	OS/VS1	2SK	
5662-280/01	ACF/VTAM Ver 2 - Encrypt/Decrypt Feature	VTAM				240			180	7	11	GC27-0608	6000,6500	1SK	
5664-167	Virtual Machine/System Product Rel 4	VM/SP				443			332	69	110	GC20-1838	S/370,4300,303x,308x	2SK	
5664-169	VM/XA Systems Facility Rel 2				11220	3740		84152805	623	997		GC19-6213	4381,308x,3090	2SK	
5664-172	ISPF / Program Development Facility	ISPF/PDF			1235	206		925	128	19	31	.GC34-2078	VM/CMS	1SK	
5664-172/01	ISPF/PDF for XT/370				990								3001,3000	0SC	
5664-173	VM High Performance Option Rel 4.0, 4.2	HPO			5325	1775		39931331	136	218		GC19-6221	VM/SP	2SK	
5664-175	Network Communications Control Facil V2	NCCF			1920	320		1740	290	33	44	GC23-0108	VM+ACF/VTAM3	1SK	
5664-176	Professional Office System	PROFS	22000		5000	895	19790	3745	710			.GH20-5601	VM	2SB	
5664-178	Screen Definition Facility	SDF			1685	294		1265	200	44	70	.GH19-6087	VM	1SK	
5664-179	VM Performance Planning Facility	VMPPF	24000		2000							.GC34-2126	VM+APL+FORTRAN+GDDM	1IE	
5664-183	VM/XA Migration Aid Remote 3270 Option		2400		800		1800	600	42	67		GC23-0126	VM/XA+VM Pass-thru	1SK	
5664-185	High-Accuracy Arithmetic Subroutine Libr	ACRITH 1.3	2500									GC33-6163	VM+5748-F03,5748-LM3	1SE	
5664-185/01	High-Accuracy Arithmetic FORTRAN Subrout	ACRITH	150									3002	XT/370+VM/PC	0SC	
5664-188	Remote Spooling Communications Subsys V2	RSCS	6300		337	5355		287	38	61		GH24-5055	VM	1SK	
5664-189	Storage & Information Retrieval System	STAIRS			1650	575		1235	375			GH12-5147	VM+ISPF,XT/370	1SM	
5664-189/01	STAIRS XT/370		660		30								3003,3004	0SC	
5664-190	Network Problem Determination Applicatn	NPDA 3.2			1350	225		1010	169	20	32	GC23-0108	VM	2SK	
5664-191	Virtual Machine Monitor Analysis	VMMAP	4000			270						.C342-164	VM	1SE	
5664-197	Mult-User System for Interactive Comput	MUSIC/SP				850						.G320-0805	VM+FORTRAN	2SE	
+5664-198	Print Services Facility/VM	PSF/VM	9230		355	5923		267				0544-3415	VM+3800,3820	2SM	
+5664-198/01	Print Services Fac - 3820 Comm Attach	PSF/VM	4000		200	3000		150				0544-3415	4789,4790,6586,6597	2SM	
+5664-198/02	Print Services Fac - 3800 Chan Attach	PSF/VM	13375		510	10031		383				0544-3415	4788,4787,6549,6560	2SM	
+5664-199	Page Printer Formatting Aid/VM	PPFA	2730		105							0520-4000	VM+3800/3820	2SM	
5664-201	Serial OEM Interface Access Method	SOEMI	2500		139							GA33-1585		2SE	
5664-202	Network Design and Analysis	NETDA	15000		750								VM+APL2 or-VSAPL+GDDM	2SE	
+5664-204	NetView				940			705	90	144		GC30-3350	VM+VTAM	2SK	
5664-280	ACF / VTAM Version 3.1.1				3535	1175		2640	880	247	395	GC30-3246	VM	2SK	
5664-281	3270-PC File Transfer Program		600									0520-3917	VM+3270-PC CP	1SE	
5664-282	Interactive System Productivity Facil2.2	ISPF			575	189		431	141	9	14	.GC34-2181	VM	1SK	
5664-283	E/S (3) PF Release 2	IPO	2000		107	1800			16	26		0520-0118	E/S (3)	2SK	
5664-285	ISPF Program Development Facility 2.2	ISPF/PDF			10450	3780	560	9405	2835	404	10	16	.GH34-2181	VM	1SK
5664-286	CADAM (R) Express - Base		126000		8560	3315						GH20-6487	5750-VME	1SE	
5664-286/01	CADAM Express Versaplot Color Random		6250										4532	1SE	
5664-286/02	CADAM Express Workstation Extension		97720	30330	1185	2362016850							2113,4527,4528	1SE	
5664-289	ACF/System Support Programs Version 3.2	SSP			960	320		720	240	44	70	GC23-0108	3705/20/25+VM	2SK	

Number	Program Title	Short Name	OTC	ILC	HLC	DSD	DSI	DSH	HLP	HML	Mo	MoreInfo	Environment	TPLS
5664-290	Personal Decision Series - Attachment/VM		17600		800							.GH30-9028.VM+ISPF+6316971		15E
5664-291	VMBACKUP Management System		12600		632							.G320-0659 VM		25L
5664-292	VMTAPE Management System		10920		575							.G320-0659 VM		25L
+5664-293	Overlay Generation Language/VM		7670		295							.G520-5102 VM		25M
5664-296	Cooperative Viewing Facility Version 2	CVIEM	5280		330							.G520-6005 VM		25A
5664-296/01	CVIEM Upgrade From Version 1 to 2		1375										5298,5299	25A
5664-298	PC Bond Release 2		2000		135							.GH24-5089 VM+VM Bond		25E
5664-301	VM/SP Entry Rel 2	VM/Entry	varies		2000	36000						4300		V25K
5664-301/01	VM/SP Entry Engineering/Scientific Enhanc		varies		569	9000								V25M
5664-309	Professional Office System 2.1, 2.2	PROFS	22000		995	16500		745				.GH20-6795.VM		T25E
5664-309/01	Professional Office System PC Support		6000		300	4500		225				.4766,4769,6569,6572		T0UM
+5664-310	Print Management Facility/VM		8450		325							.G520-5102 GDDM+VSAPL/APL2		25M
+5664-312	Print Services Access Facility/VM	PSAF	3770		145							.G544-3415 VM+3800/3820		25M
+5664-315	File Transfer Program Version 2.2		11250		450	8437		337				.GH12-5141 VM+VTAM		25M
+5664-316	RS/1 tm 8 CSTU		23000									.G320-0840 VM+GDDM PGF		T15E
+5664-316/01	RS/1 tm 40 CSTU		45000									.G320-0840 4731,4732		T15E
+5664-316/02	RS/1 tm 100 CSTU		84000									.G320-0840 4731,4732,4733		T15E
+5664-316/03	RS/1 tm Unlimited CSTU		144000									.G320-0840 4731,4732,4733,4734		T15E
+5664-319	VM/PC Host Server		2000		135							.VM+VM/PC on AT/370		15X
+5664-322	Information/Management Version 3		8800		500	6600		375	44	70		.GC34-4045.Info/Sys V3+VM		15K
+5664-323	Information/System Version 3		8000		450	6000		337	52	83		.GC34-4045 VM		15K
+5664-350	DisplayWrite/370		14000		665	10500		500	42	60		.VM		25K
5664-972	Information/System Version 2			2705	311		2033	233	49	72		.GC34-2185.VM+ISPF		15K
5664-953	Information/Management Version 2			3155	363		2354	270	25	40		.GC34-2185.VM+Info/Sys Version2		15K
+5665-XA2	Data Facility Product Version 2.2	DFF			1025		769	349	547			.GC26-4142.XA		25K
5665-267	Information/Access Version 2			3550	747		2665	563	20	32		.GC34-2096.MVS+V2 of Info/Sys		15X
5665-268	ISPF / Program Development Facility	ISPF/PDF		1350	352		1015	264	30	48		.GC34-2078 MVS/T50,MVS/XA		15K
5665-274	Resource Measurement Facility Ver 3.4.1	RMF		2250	750		1686	562	67	107		.GC28-1398 MVS/XA		25K
5665-275	Print Services Facility 3800 III Rel 1.1	PSF		4260	200		3195	150	176	282		.G544-3088 MVS		25K
5665-275/01	PSF/MVS 3800 Channel Attach Feature		13375		510	10030		385				.2151,6150		25K
5665-275/02	PSF/MVS 3820 Communication Attach Feat		4000		200	3000		150				.2161,6160		25K
5665-277	Information / Library	INFO/LIB		536	205		401	154	15	24		.GH12-5136 MVS,XA+NCCF		15K
5665-279	BTAM/System Product	BTAM/SP	5950					13	21			.GC27-0599 MVS,MVS/XA		25K
5665-280	ACF/VTAM - Version 2	VTAM		3745	1245		2809	934	225	360		.GC27-0657 MVS,MVS/XA		25K
5665-280/01	ACF/VTAM Ver 2 - Encrypt/Decrypt Feature	VTAM		259			194	8	13			.GC27-0608 6000,6500		15K
5665-283	Virtual Storage Personal Computing - V2	VSPC			2050		1537	214	342			.GH20-9192 MVS		15K
-5665-284	Data Facility Product Version 1.1	DFF		1590	600		1191	450	93	149		.GC26-4007 Superceded by Ver 2		25K
5665-285	TSO/Extensions	TSO/E		1500	500		1125	375	87	139		.GC28-1061 MVS,XA+BFP		25K
5665-285/01	TSO/E - MVS/XA Feature			1500	555		1125	416	108	173		.GC28-1061 4528,6503		25K
5665-288	Operator Communications Control Facility	OCCF		1050	350		786	262	8	13		.GC24-5225 MVS,NCCF,ACF/VTAM		15K
5665-289	ACF/VTAM Version 3.1.1	VTAM		6255	2085		46951565	302	483			.GC23-0108.XA		25K
5665-290	Distributed Office Support System Ver 3	DISOSS		4570	1485		34251110	223	357			.GC30-3085 C1CS/VS+MVS,XA		25K
5665-291	MVS/SP - JES3 Version 2.1.7	MVS/XA		14430	4810		10821360713352136					.GC28-1118 DFF 5665-XA2		25K
5665-294	Library/MVS Release 2.1 (and Update C)			399	133		297	99				.GC28-1125 Information/Library		15C
5665-295	Data Facility Product	DFF		1590	600		1191	450	186	298		.GC26-4050 MVS		25K
5665-299	Character Conversion Aid		1100									.MVS+5748-XXH+AP1		O1E
5665-301	Vector Processing Subsystem / XA	VPSS/XA	50000			37500			58	93		.GC28-1204 MVS/XA+3838		15K
5665-302	MVS/Bulk Data Transfer	MVS/BDT		5340	1335		40041001	454	726			.GC28-1313 MVS+VTAM		25K
5665-307	Print Management Facility Release 1.1	PMF		882	294				132	211		.G544-3088 MVS+VS/APL+GDDM		21K
5665-308	Overlay Generation Language Release 1	OGL/MVS		801	267				88	141		.G520-5023 MVS+3800,3820		21K

Number	Program Title	Short Name	OTC	ILC	MLC	DSO	DSI	DSM	MPL	MML	Mo	MoreInfo	Environment	TPLS
5665-309	Financial Management System			10110	1815		75801	360	280	448		GH19-6274	MVS, XA+IMS/DB+COBOL	25K
5665-310	Report Management & Distribution System	RMDS		5720	858							GC30-3191	MVS+CICS/VS, IMS/VS	15E
5665-311	3270-PC File Transfer Program		600									0520-3917	1837-434	15E
5665-313	ACT/VTAM Version 3.1.1	VTAM		5130	1710		38401	280	275	440		GC23-0108	MVS	25K
5665-314	ACF/TCAM - Version 3	TCAM		8025	2675		6015	2005	330	528		GC30-3235	ACF/VTAM V2 or 3	25K
5665-316	Network Communications Control Facil 2.2	NCCF		2730	455		2460	410	66	106		GC23-0108	XA+VTAM/TCAM	15K
5665-317	ISPF Program Development Facility 2.2	ISPF/PDF		4025	575		3015	433	14	22		.GC34-2136	ISPF	15K
5665-319	Interactive System Productivity Facil2.2	ISPF		690	218		517	161	30	48		.GC34-2136	MVS	15K
5665-320	Planning Aid for Retail Information/Base	PARIS/Base		4708	1350							.GE20-0582	DFDS+DFEF+DMS+IMS+CO	15E
5665-321	Network Problem Determination Applic 3.2	NPDA		2040	340		1530	255	30	48		GC23-0108	NCCF Version 2+XA	25K
5665-321/01	NPDA 3600/4700 Threshold Analysis			1210	176		907	132	19	30			2116	25K
5665-327	Data Facility Data Set Services 2.2	DFDSS			215			161	38	61		GC26-4123	Data Facility Product	15K
+5665-329	Data Facility Hierarchical Storage Mgr	DFHSM2.2.1			800			600	141	226		SC33-0223	MVS, XA	15K
5665-330	Personal Services / 370 Rel 2		2400		800		1800	600	132	211		GC30-3292	DISOSS+CICS+MVS	25K
+5665-332	Information Management System Ver 2.1	IMS/VS			3900			2925	8251	320		GC26-4180	MVS or XA	25K
5665-332/01	IMS Data Base Prod (Includes IRLM)	IMS/VS			2400			1800	7001	120			2116, 4558, 9558	25K
5665-332/02	IMS Logging Feature	IMS/VS			400			300	60	96			5196, 6008, 6508	25K
5665-332/03	IMS Data Base Recovery Control Feature	IMS/VS			1100			825	65	104			5009, 6509, 5198	25K
5665-332/04	IMS Data Base Surveyor Utility Feature	IMS/VS			120			90	13	21			6011, 6511, 5186	25K
5665-332/05	IMS Data Communication Feature	IMS/VS			5000			3750	575	920			6010, 6510, 5188	25K
5665-333	Network Performance Monitor Release 2	NPM		3210	615		2410	460	57	91		.GH20-6359	MVS+VTAM	25K
5665-336	Personal Decision Series - Attachmt/MVS		22000		1000							.GH30-9028	VTAM+NCP+ISPF+PC, XT	15E
5665-337	High-Accuracy Arithmetic Subroutine Libr	ACRITH 1.3	6000									GC33-6163	MVS, XA+5748-F03	15E
5665-338	ACF/System Support Programs Version 3.2	SSP		1605	535		1200	400	71	114		GC23-0108	3705/20/25+MVS, XA	25K
5665-339	The Information Facility	ITF		4280	1070								MVS, XA+VTAM+GDDM	25H
5665-340	Print Services Access Facility Release 1			700	120				60	96		0544-3099	MVS, XA+ISPF+3800/20	21K
5665-342	Multi-System Configuration Mgr for 3814				750			675	70	112		GC23-0172	MVS	15K
5665-343	MVS CBIPO Drivers				178							GC23-0127	5751-CS1,2	05C
+5665-345	SNA Application Monitor	SAMON			9000		7650						MVS+VTAM 2 or 3	25E
5665-347	Integrated Processing of Data & Text V4	IPDT			29700							.G320-0354	CICS/IMS+MVS+GDDM+PL	25E
5665-348	IMS Application Development Facil II V2	IMSADF		54890	2750	41160		200	320			.GH20-6591	IMS	25K
+5665-351	Page Printer Formatting Aid Release 1				105							0544-3181	MVS, XA+3800-III, 3820	11E
+5665-354	IBM DATABASE 2 Performance Monitor	DB2PM	29000		975							.SH20-6857	DB2	15M
+5665-355	CICSPARS/MVS				900			675					CICS/MVS	15E
+5665-361	NetView			1060				795	124	198		GC30-3350	MVS+VTAM	25K
+5665-362	NetView			1255				941	128	205		GC30-3350	XA+VTAM	25K
+5665-368	Vector Processing Subsys/ Vector Facilit		40000			30000						GC23-0625	Vector Facility	15E
+5665-370	Data Interfile Transfer, Testing & Oprns	DITTO			270			230				.SH19-6112	MVS, XA	15M
+5665-382	DisplayWrite/370		14000		665	10500		500	42	60			CICS/MVS	25K
+5665-383	Information/Management Version 3		8800		500	6600		375	58	93		GC34-4045	Info/Sys V3+MVS	15K
+5665-384	Information/System Version 3		8000		450	6000		337	49	78		.GC34-4045	MVS	15K
+5665-428	3728 Matrix Switch Host Facility		6000									0520-6040	NetView/NCCF+MVS, XA	15M
5665-948	BASIC/MVS Release 2			4170	695		3126	521	42	67		GC26-4023	MVS	15K
5665-950	Information / Access Version 1			3300	362		2475	270	28	45		.GC34-2096	V2 of INFO/SYS & MGT	15K
5665-952	Information / System Version 2	INFO/SYS		2705	311		2033	233	56	90		.GC34-2096	MVS	15K
5665-953	Information / Management Version 2	INFO/MGMT		2950	363		2200	270	32	51		.GC34-2098	5665-952	15K
5665-955	Information / MVS	INFO/MVS			305				9	14			5665-952	05C
5665-955/01	Info/MVS Direct Load Feature				380								4582	05C
5666-263	Financial Management System			3090	1180		2315	888	125	201		.GH19-6196	VSE+DLI+COBOL	25K
5666-264	Distributed Office System / 370 Ver 2	DISOSS/VSE	29370		1335	22110		1005	214	342		.GH12-5139	DOS/VSE & CICS/VS	25K

Number	Program Title	Short Name	OTC	ILC	MLC	DSO	DSI	DSH	MHP	MHL	Mo	MoreInfo	Environment	TPLS
5666-265	Small System Executive / VSE	SSX/VSE	20000		1315	15000		922	123	197		GC33-6143	4300	25K
5666-266	COBOL Support for 4700 Finance System	FC5		1070	375		802	280	66	106		GL23-0078	DOS/VSE	15K
5666-269	Direct Multinetwork Link to S.W.I.F.T.	DMNL		3500	820							.GH12-5142	CICS/DOS/VS+5668-926	15K
5666-270	Distributed Office Support System Ver 3	DISOSS		1710	570		1275	425	176	282		GC30-3085	CICS/VS+VSE	25K
5666-273	POWER/VSE Version 2	VSE/POWER		498	166		447	149	33	53		GC33-6168	VSE/AF Version 2	15K
5666-273/01	VSE/POWER Shared Spooling - Version 2	POWER			41			37	9	14		GH12-5131	6016,6017,6500	15K
5666-274	RPG II Compiler			160				120	7	11		GC33-6143	SSX/VSE	15K
5666-275	DL/I			429				322	126	201		GH20-1246	SSX/VSE	25K
5666-276	PL/I Optimizer & Library			347				260	50	80		.GC33-6143	SSX/VSE	15K
5666-277	PL/I Transient Library			35				25	7	11		.GC33-6143	SSX/VSE	15K
5666-280	ACF/VTAM - Version 2	VTAM V2		849	284		765	256	59	94		GC27-0608	DOS/VSE,VSE/AF	25K
5666-281	ISPF Program Development Facility 1.1	ISPF/PDF		960	150		720	111	15	24		.GC34-2078	VSE+ICCF	15K
5666-284	VSE/Distributed Systems Node Exec 1.1.0	VSE/DSNX	3800		253	3420		228	41	66		SC33-6210	VSE+VTAM	15K
+5666-285	Network Communications Control Facil 2.2	NCCF		1110	185			996	166	22	35	GC23-0108	VSE+VTAM/TCAM	15K
5666-288	Screen Definition Facility CICS/VS	SDF		1305	249		979	187	47	75		.GH19-6096	SSX/VSE	15K
5666-291	Entry Level Interactive Application SSX	ELIAS		1165	224		876	167	14	22		.GH19-6269	SSX/VSE	15K
5666-292	Query Management Facility	QMF		4280	642		3850	577	89	142		GH24-5033	S/4746-XX3+GDDM	25K
5666-294	Planning Aid for Retail Information/Base	PARIS/Base	22275		2775	747						.GH20-5611	DL/I,CICS/DOS/VS,VSE	15E
+5666-295	Network Problem Determination Applic V3	NPDA		825	132		618	99	16	26		GC23-0108	NCCF Version 2+VSE	25K
5666-296	VSE/System Package - Production 1.1.0	VSE/SP	40610		1710	36550		1540	324	518		GH20-5347	S/370,4300,303x,3083	15K
5666-296/01	VSE/SP POWER Shared Spool Feature		1200		41	1080		37	9	14			4923,6507	15K
5666-297	VSE/System Package - Generation 1.1.0	VSE/SP	46700		1970	42028		1775	402	643		GH20-5347	S/370,4300,303x,3083	15K
5666-297/01	VSE/SP POWER Shared Spool Feature		1200		41	1080		37	9	14			4924,4588,6508,6509	15K
5666-301	VSE/Advanced Functions Version 2.1	VSE/AF	11430		438	10287		394	108	173		GC33-6189	VSE	15K
5666-302	Interactive Computing & Control Facility	ICCF 2.1	5595		214	5035		192	12	19		GX33-9011	VSE/AF+CICS	15K
5666-311	Decision Support / VSE 1.1	DS/VSE	5075		182	2770		164	19	31		GC33-6212	SSX/VSE	25K
+5666-313	ACF/VTAM Version 3	VTAM		963	321		864	288	82	131		GC23-0108	VSE	25K
5666-314	VSE/System Package 2.1.4 Refresh	VSE/SP	48500		2160	43650		1945	433	693		GC33-6176	4300,303x,308x,S/370	25K
5666-316/01	VSE/SP ICCF 2.1.0		48500		2160	43650		1945	433	693			4540,4541,9540,9541	15K
5666-316/02	VSE/SP POWER		3875		155	3483				140				15K
5666-316/03	VSE/SP VSAM		1567		79	1410				71				15
5666-316/04	VSE/SP VSAM Space Management Feature		713		42	641				38				15
5666-316/05	VSE/SP VSAM Backup Restore Feature		441		31	397				28				15
5666-316/06	VSE/SP CICS		14620		641	13160				577				15
5666-316/07	VSE/SP Fast Copy Feature		454		22	409				20				15
5666-316/08	VSE/SP DITTO for VSE and VM		1340		77	1205				70				15
5666-316/09	VSE/SP BTAM-ES (Includes 5747-C01)		592		42	535				38				15
5666-316/10	VSE/SP ACF/VTAM		6815		265	6135				239				15
5666-318	Personal Services / 370		1125		375		843	281	99	158		GC30-3292	DISOSS+CICS+VSE	25K
5666-319	Print Services Facility Release 1.1	PSF/VSE	2000	100	200	3000	1500	75	120	192		G544-3088	VSE	25K
5666-319/01	PSF/VSE 3820 Communication Attach Feat		4000		100	3000		150					2135,6037	25K
5666-320	High-Accuracy Arithmetic FORTRAN Subrout	ACRITH 1.3	2500									GC33-6163	VSE+5748-F03	15E
+5666-322	ACF/System Support Programs Version 3.2	SSP		321	107		240	80	27	43		GC23-0108	3705/20/25+VSE	25K
5666-323	Information Development / VSE 1.1		1800		100	1620		90	17	27		GC33-6216	CSP+GDDM	15K
5666-324	Overlay Generation Language Release 1	OGL/VSE		750	250			80	128			G544-3088	VSE+3800/3820	21K
5666-325	Integrated Processing of Data & Text V4	IPDT	13200		748							.G320-0354	CICS/VSE+DCF+GDDM+PL	25E
+5666-327	Page Printer Formatting Aid Release 1			250	75				60	96		G544-3088	VSE	21K
5666-330	Serial OEM Interface	SOEMI	2500		139							GA33-1585		25E
+5666-338	DisplayWrite/370		6000		285	4500		215	42	60			.CICS/VSE	25K
+5666-339	Document Management/VSE		2850		158	2565		142	28	45		GC33-6251	VSE	25K

Number	Program Title	Short Name	OTC	ILC	MLC	DSO	DSI	DSM	MLP	MML	Mo	MoreInfo	Environment	TPLS	
5667-124	ACF/Network Control Program Version 3	ACF/NCP		2550	425		2310	385	148	237		GC27-0657	3705/25+MVS,XA	2SK	
5667-126	Interactive Executive for System/370	IX/370	10000									495 792	GC33-6207 VM+Series/1	T2SK	
5668-002	Direct Access Storage Device Migration		1450							19	30		GC26-3972 OS/VS+3375/3380	OIX	
5668-006	Downstream Load Utility	DSL	3200	1015	124	2400	775	93	7	11			GC33-6125 VSE,OS/VS,SSX+VTAM	1SK	
5668-007	Communication Oriented Message System	CORMES	11505		524								.GH12-5127 OS/VS,MVS/XA+CICS/VS	1SE	
5668-009	System Productivity Facility	SPF			241			180	48	77			.GC36-2039 Superseded by ISPF	1SC	
5668-011	Interactive Instructional Authoring	IIAS	16170		529								.GH20-0008 VM,IMS,CICS+TCAMVTAM	2EB	
5668-011/01	IIAS XT/370		1890		60								3013.3008	0SC	
5668-012	Interactive Instructional Presentation	IIPS	9450		309								MVS,VSE,VM	2EB	
5668-012/01	IIPS XT/370		604		18								3009.3014	0SC	
+5668-741	CATIA (R) Building Design				400								CATIA Base+Draft 2.2	1SE	
+5668-751	4700 Resource Manager - Teller Applicatn		350										4700 CRM Ver 2	1SM	
+5668-752	4700 Resource Manager - Platform Applic		100										4700 CRM Ver 2	1SM	
+5668-753	4700 Controller Resource Manager Ver 2		1700										4700 FCS	1SM	
+5668-754	ACF / Network Control Program V4 Subset	NCP			275			206	48	77		GC30-3350	VSE,VM,MVS,XA+VTAM	2SK	
+5668-760	CATIA (R) Base 2.2 4 CSTU				685								MVS,VM+3250/5080	T1SE	
+5668-760/01	CATIA (R) Base 2.2 Unlimited CSTU			4125	1375		2895	965					4800,2230	T1SE	
+5668-761	CATIA (R) 3D Design 2.2 4 CSTU				350								CATIA Base	T1SE	
+5668-761/01	CATIA (R) 3D Design Unlimited CSTU			2100	700		1470	490					4802,2240	T1SE	
+5668-778	4700 Resource Mgr - Consumer Loan Applic		1200										4700 CRM Ver 2	1SM	
+5668-786	COBOL Structuring Facility		125000		12500								.SC34-4080 VM,MVS+ISPF	1SM	
+5668-787	3728 Support Processor		12000										GA27-3644 Multiple Com Ctrls	1SE	
+5668-788	Data Extract 2.1	DXT			300			225					GC26-4241 VM,MVS,XA	2SM	
5668-788/01	Data Extract Non-Relational Feature				750			563						2SM	
5668-788/02	Data Extract Relational Feature				375			500						2SM	
+5668-792	Graphical Data Display Mgr/ graphIGS 1.2				500								GAM or GDDM	1SE	
+5668-795	Customer Information Control System/CMS	CICS/CMS	15000		835	13500		750					GC33-0284 VM,VM/PC	2SM	
5668-795/01	CICS/CMS PC/370		900		50									2SE	
+5668-805	VS FORTRAN Library 2.1.1				200			150					SX26-3751 VM,MVS,XA+DFP	1SE	
+5668-806	VS FORTRAN Compiler Library& Debug 2.2.1				750			563					SX26-3751 VM,MVS,XA+DFP	1SE	
5668-815	Routing Table Generator	RTG	6000		300								.GH20-6787 PL/I+MVS,XA or VM	2IE	
5668-820	Storage Tube Simulator		2750		300								.GC34-4033 VM+GDDM+FORTRAN	1SE	
5668-824	Cross System Product/Application Dev V2	CSP/AD	10970		550	9870			26	42			.GH20-6750 .CICS,MVS,SSX	2SK	
5668-824/01	CSP/AD Upgrade from Version 1		6425		4820								.4692	2SK	
5668-824/02	CSP/AD CICS/OS/VS and TSO Feature		10340		467	9305			26	42			.4688,4689,6572	2SK	
5668-824/03	CSP/AD CICS/OS/VS & TSO Feat Upg from V1				6560	4920							.5614	2SK	
5668-825	Cross System Product / Applic Execution	CSP/AE	8275		412	7450			19	30			.H206-426 .CICS,MVS,SSX,VM	2SK	
5668-825/01	CSP/AE Upgrade from Version 1 to 2		4850		3640								.4690	2SK	
5668-825/02	CSP/AE CICS/OS/VS & TSO Feature		7810		357	7025			19	30			.4686,4687,6574	2SK	
5668-825/03	CSP/AE CICS/OS/VS & TSO Feat Upg from V2		6490		4865								.4691	2SK	
5668-826	CATIA (R) Numerical Control				288								G320-6650 Replaced by 5668-833	T1SE	
5668-827	CATIA (R) Drafting				555								G320-6650 Replaced by 5668-837	T1SE	
5668-828	CATIA (R) Basic 3D Design - Standalone				1035								G320-6650 Replaced by 5668-761	T1SE	
+5668-829	COPICS Capacity Requirements Planning		18000		900								.GH19-6413 .CICS+IMS/DL/I+COBOL	1SE	
+5668-830	CATIA (R) 3D Design				1725	575		1215	405					Replaced by 5668-761	1SE
+5668-831	CATIA (R) Advanced Surfaces 2.2			1410	470		993	331					CATIA Base	1SE	
+5668-832	CATIA (R) Interface 2.2			1020	340		735	245					CATIA Base	1SE	
+5668-833	CATIA (R) Numerical Ctl 2.2 4 CSTU				288								CATIA Base	T1SE	
+5668-833/01	CATIA (R) Numerical Ctl Unlimited CSTU				288								4723,2203	T1SE	
+5668-834	CATIA (R) Solids Geometry 2.2 Unltd CSTU				1725	575		1215	405				CATIA Base	1SE	

Number	Program Title	Short Name	OTC	ILC	MLC	DSO	DSI	DSM	HLP	MHL	Mo	MoreInfo	Environment	TPLS
+5668-835	CATIA (R) Kinematics 2.2	Unltd CSTU		1410	470		993	331					CATIA Base	1SE
+5668-836	CATIA (R) Robotics 2.2	Unltd CSTU		1725	575		1215	405					CATIA Base	1SE
+5668-837	CATIA (R) Drafting 2.2	4 CSTU			535								CATIA Base	1TSE
+5668-837/01	CATIA (R) Drafting	Unltd CSTU		3210	1070		1070	750					4727,2207	1TSE
5668-838	CATIA (R) Library 2.2			1020	340		735	245					G320-6650 CATIA Base	1SE
*5668-840	CADAM (R) Interactive Design Version 2		70000		1710								G320-6063 VM,OS/VS+3250/5080	1TSE
5668-840/01	CADAM (R) Interactive Design/Manufactng		12000	2140	256	8400	214	180					6050,6560,2374,6550,	1SE
5668-842	CADAM Geometry Interface Version 2	CADAM (R)	24000	4280	480	15400	2800	340					SH20-6491 5668-840	1SE
5668-843	CADAMAC	CADAM (R)	19000	1470	490	13300	1020	340					SH20-6491 5668-840	1SE
5668-844	CADAM (R) 3D Interactive		35000	2675	909	24500	1920	640					G320-6063 5668-840	1SE
5668-853	CADAM (R) Design/Build/Manage		20000	1765	535	13400	1185	395					5796-ATA,ATB,PTH	1SE
5668-853/01	CADAM (R) D/B/M Detail Library Feature		2675	224	74	1675	148	47					2146,4644,4624,2346,	1SE
5668-854	ACF/NCP Version 4.2	NCP		2085	695		1875	625	148	237			GC23-0108 3725/20+VTAM/TCAM	2SK
5668-856	IMS/VS System Utilities/Data Base Tools	DBT	nc										.GH20-6579 IMS/VS	.N2SE
5668-856/01	IMS/DBT Full Function Space Mat Utility	SMU	5555										.4738	.2SE
5668-856/02	IMS/DBT High Speed Sequential Retrieval	FSU	8645										.4739	.2SE
5668-856/03	IMS/DBT PSB Mapper	IMSMAP	957										.4740	.2SE
5668-856/04	IMS/DBT VSAM Zapper	VZAP	709										.4741	.2SE
5668-856/05	IMS/DBT DEDB Pointer Checker		2845										.4742	.2SE
5668-856/06	IMS/DBT DEDB Tuning Aid		836										.4743	.2SE
5668-856/07	IMS/DBT DEDB Unload/Reload		2445										.4744	.2SE
5668-857	Direct S.W.I.F.T. Terminal 500 Link		24200		1100								GH12-5149 DMNL+ST500+3705/25	1SB
5668-860	GDDM Graphics Data File - Color Support		1100										GA23-0186 MVS,VM+371/2/3/5	1SE
+5668-863	Engineering & Scientific Subroutine Lib				700		525						GC23-0182 Vector Facility	1SE
+5668-864	FORTRAN Language Conversion Program		28000										SC23-0145 VM,MVS,XA+DFP	0SE
5668-865	Data Communication Service Release 2	CAD/CAM	20000	1605	535								MVS,XA,VM	1SE
5668-870	4730 Customization Image Builder Rel 2	FBM	6000		535	5400							GC31-0029 SSX,VSE,VS1,MVS,XA	1IE
5668-871	4730 Network Monitor	FBM	20000		1710	18000			43	69			GC31-0033 CICS+VSE,VS,IMS/VS	1SK
+5668-872	4730 Remote Network Monitor		2500										GC31-3572 4700 CRM Ver 2	1SM
5668-873	4730 Availability Mat-Batch Reporting		14000		995	12600			44	70			GC31-0523 VSE,OS/VS+COBOL	1SK
+5668-878	Computer-Integrated Electrical Design	CIEDS tm	75000		2500	52500		1750					VM+GDDM/graPHIGS	1SE
5668-890	Font Library Service Facility	FLSF	2500						36	58			GC33-6165 ISPF+4250,3820	1SK
5668-896	Application Prototype Environment		10000	1290	494	7500	963	369					.GH19-6391 VM,MVS+VSAPL or APL2	1SE
5668-897	Info Center/1		22000		1390	18000		1040					.GH20-8398 VM,MVS	1SE
5668-898	Master Production Schedule Planning	COPICS	31500		1380								.GH30-0737 CICS+COBOL+IMS,DL/I	1TSE
5668-899	APL2 Release 2		14000	4170	695	12600	3126	521	37	59			GH20-9214 VM, MVS,XA	1SK
5668-899/01	APL2 for XT/370, AT/370		735		49								3020,3021	0SZ
5668-903	FORTRAN VS - Interactive Debug 2.0 SPE			1920	320		1397	240	26	42			GC26-4114 MVS,VM+5748-F03+LMS	1SK
5668-903/01	FORTRAN VS Interactive Debug XT/370		1152		25								3006,3010	0SC
5668-904	Initial Graphics Exchange Spec Processor IGES 2.1		26600	2400	800								5374LMS+5796ATC+ATJ	1SE
5668-905	Graphical Display and Query Facility 1.3 GDQF		20000	1365	455								MVS,VM+GDDM+3270	1SE
5668-906	Customer Order Servicing - Shipping Mgmt	COPICS COS	14070		428								.GH19-6369 CICS+VS+IMS or DL/I	1SB
5668-907	COPICS Facilities Data Management		9765		297								.GH19-6357 COBOL+CICS+IMS,DL/I	1SB
5668-908	COPICS Shop Order Load Analysis Reporting		15430		469								.GH19-6356 CICS+COBOL+IMS,DL/I	1SB
5668-912	3650/3680 Language and Host Services 1.2 LHS			4280	444		3210	333	110	176			GA27-3213 VSE,OS/VS+RTAM,VTAM	1SK
5668-913	Patient Care System - Patient Accounting	PCS-PA	165000		7500								.GH20-6351.5796-BBF+BCE+BCF	1SE
5668-914	3680 Restaurant System		1100										.GH20-6210 VSE,OS/VS+PSS	1SA
5668-915	Distributed Systems Executive 3.1	DSX		2700	1035		2025	776	88	140			.GC23-0108 MVS+VTAM/TCAM	1SK
5668-917	DITTO			231	94		210	85	7	11			.GH19-6103 VSE,VM	.1SK
5668-918	Cross System Product / Query	CSP/Q	9656		460	8688		345	15	24			.GH24-5048.5668-944+945+VSE,SSX	1SK

Number	Program Title	Short Name	OTC	ILC	MLC	DSO	DSI	DSH	MLP	MHL	Mo	MoreInfo	Environment	TPLS
5668-918/01	CSP/Query CICS/OS/VS Feature		7140		584	5352		408	15	24			.4680,4681,6570,6571	25K
5668-919	Information / VM-VSE	INFO/VMVSE			150							.GC34-2070	5665-952	05C
5668-919/01	Info/MVS Direct Load Feature				190								4788	05C
5668-920	Network Problem Determination Applic V3	NPDA		1650	264		1237	198	22	35		GC23-0108	NCCF Version 2+MVS	25K
5668-926	Direct S.W.I.F.T. Network Link	DSNL		2000	299							.GH12-5142	CICS/VS,IMS/VS+BTAM	15K
5668-932	File Transfer Program Version 2.2	FTP	11250	1500	450	8437	1125	337	90	144		.GH12-5141	VM,VSE+VTAM	15K
5668-934	4700 Finance System - Applic Map Genertr	RM4700AMG	21000		1495	18900			48	77			5668-969+5748-XXH	15K
5668-934/01	4700 AMG Upgrade from 5799-BQZ	FCS			13500								4712	15K
5668-934/02	4700 AMG Upgrade from 5799-BZD				10500								4713	15K
5668-935	4700 Finance System - Controller Manager	RM4700	1300						38	61		GC31-0508	5668-989+5668-934	15K
5668-935/01	4700 FCS CRM - Upgrade from 5799-BQY				550								4714	15K
5668-935/02	4700 FCS CRM - Upgrade from 5799-BZE				450								4715	15K
5668-937	Application Development Facility II V1	IMSADF		3950	1315		2960	987	214	342		.GH20-5597	Superceded by V2	15K
5668-940	COBOL VS II Library Only			2550	425		1908	318	53	85		GC26-4042	MVS,XA,VM	15K
5668-940/01	COBOL VS II Library Only 1.1		1200		25							GC26-4042	XT/370,AT/370	05C
+5668-941	Graphics Program Generator 3277GA/5080	GP6 Rel 2		7000	1250							GH20-5620	VM,MVS+5799-AXX+FORT	15E
5668-944	Cross System Product / Applic Devt Ver 1	CSP/AD	5565	960	227	5005	720	172	34	54		.GH20-0940	CSP/Applic Execution	25K
5668-944/01	CSP Development - CICS/OS/VS TSO		4655		227	4370		172	34	54			.4519,4672,6519,6566	25K
5668-944/02	CSP Development - VM/CMS			960	160		720	120	32	51			.4538,2120,9539,2320	15K
5668-945	Cross System Product / Applic Execution	CSP/AE	4200	720	172	3780	540	128	22	35		.GH20-0940	CICS/DOS/VS,SSX,VM	25K
5668-945/01	CSP Execution - CICS/OS/VS TSO		2490		117	2245		86	22	35			.4532,4676,6532,6568	25K
5668-945/02	CSP Execution - VM/CMS			700	120		540	90	22	35			.4537,2121,9537,2321	25K
5668-947	Network Communications Control Facil V2	NCCF		2250	375		2010	335	55	88		GC27-0657	MVS+VTAM,TCAM	15K
5668-948	Batch Terminal Simulator	BTS	9662	1030	394	7245	773	295	28	46		.GH20-5522	IMS/VS & TSO	15K
5668-949	System Modification Program Extended	SMP/E		1920	380		1440	285	97	155		GC28-1106	OS/VS,MVS/XA	15K
5668-951	Non-SNA Interconnection to 3725 Ver 3.4			1605	465		1440	419	43	68		GC33-2023	NCP Ver2+VTAM Ver2	25K
5668-955	Distributed Office Support System Rel 3	DISOSS	4320	235	3670		200	43	68			.GH12-5139	DOSF+DISOSS Ver 2/3	25K
5668-956	Interactive Display Text Facility		3000	97	2550		73					GA33-3115	DOSF,DPXC,DPXP	15E
5668-958	COBOL VS II Compiler and Library 1.1			6420	1070		4812	802	53	85		GC26-4042	MVS,XA,VM	15K
5668-958/01	COBOL VS II Compiler and Library 1.1		3840		80							GC26-4042	XT/370,AT/370	05C
5668-959	Digital Interactive Graphics / Mapping	Digimap	16610		755							.GH20-5508	5799-AYB,AXX,CMS,TSO	15X
5668-960	Interactive System Productivity Facility	ISPF 1.1		960	96		720	70	15	24		.GC34-2078	CICS/VSE+ICCF	15K
5668-960/01	ISPF XT/370		600										3007,3015	05C
5668-962	Assembler H - Version 2			465	155		348	116	7	11		GC26-4035	OS/VS,MVS/XA,VM/SP	15K
5668-962/01	Assembler H_XT/370		432		9								3002,3011	05C
5668-963	Network Routing Facility Release 3	NRF		3525	1175		2644	881	248	397		GC27-0594	ACF/NCP 4.2	25K
5668-964	Direct Multinetwork Link to S.W.I.F.T.	DMNL		6525	1595							.GH12-5142	IMS/VS+5668-926	15K
5668-965	Direct Multinetwork Link to S.W.I.F.T.	DMNL		4280	1280							.GH12-5142	CICS/OS/VS+5668-926	15K
5668-966	Service Level Reporter Version 2	SLR		2130	815		1600	611	99	159		.GH19-6213	OS/VS,MVS/XA	11K
5668-967	Financial - Postings & General Ledger R3	IFS-1	22220		1010							.GH20-2467	CICS+IMS+PL/I	15B
5668-968	Financial-Status P&L Balance Sheet Rel3	IFS-2	5100		232							.GH20-2467	CICS+IMS+PL/I	15B
5668-969	Financial- Open Item Acctg A/R A/P Rel 3	IFS-3	9855		448							.GH20-2467	CICS+IMS+PL/I	15B
5668-970	Financial- Payment Processing A/P Rel 3	IFS-4	6820		562	310						.GH20-2467	CICS+IMS+PL/I	15B
5668-971	Network Logical Data Manager 1.3	NLDM		1305	207		979	155	24	38		GC23-0108	MVS,VM,VSE+NCCF	15K
5668-972	Query Management Facility Release 2	QMF		6420	1070		4812	802	58	93		GC26-4071	VM,MVS+GDDM+DB2,SQL	25K
5668-973	Data Extract	DXT		3840	640		2880	480	37	59		GC26-4070	MVS,MVS/XA+DFP	21K
5668-978	Graphics Access Method / System Product	GAM/SP	12000		503	9000		377				GC33-0125	MVS,XA,VM	15L
5668-979	EDX Host / Communications Facility			562	215							.GH20-2485	OS/VS,DOS/VSE,CICS	15X
5668-981	X.25 NCP Packet Switching Interface 4.3	NPSI		770	269		557	202	40	64		GC30-3189	3720/25+NCP 4.2	25K
5668-982	Distributed Office Support / 370 Ver 2	DISOSS/370	29150		1325	21970		999	255	408		.GH12-5139	OS/VS,IMS/VS,CICS/VS	25K



Number	Program Title	Short Name	OTC	ILC	MLC	DSQ	DSI	DSM	MLP	MML	Mo	CoreInfo	Environment	TPLS
5668-983	Network Problem Determination Appl Ver 2 NPDA			1210	113		907	85	27	43		GC34-2061	5735-XX6	15K
5668-983/01	NPDA 3600 Threshold Analysis			1210	176		907	132	19	30		GC34-2061	6008,6500,2155,2355	25K
5668-985	DPCX/DPPX Host Command Facility Ver 2	HCF			200			150	41	66		GC27-0453	VTAM/E+NCCF	15K
5668-986	Distributed Systems Executive Ver 2	DSX		1220	468		915	350	44	69		.GH19-6229	VTAM/E,TCAM+8100	15K
5668-987	COBOL Support for 4700 Finance System	FCS		1495	520		1120	388	82	131		GL23-0078	OS/VSE,MVS/XA	15K
5668-989	4700 Finance System - Host Support 1.5			2070	647		1555	484	181	290		GC31-2019	MVS,XA,VSE,SSX	15K
5668-996	BASIC/VM Release 2		7000		1125	375	6300	843	281	38	61	GC26-4023	VM/SP	15K
5668-996/01	BASIC Processor and Library XT/370		1008			22							3003,3012	05K
5668-997	Composed Document Printing Facility 4250 CDPF		4800			342			49	78		GC33-6133	SCRIPT and/or GDDM	15K
5668-998	3644 Parameter Table Generation Facility GEN3644		2400			78	1800		59	8	13	GC31-0009	DOS/VSE,OS/VSI	15K
+5669-031	4680 General Sales Application		900									SC30-3367	4680 Operating System	15M
+5669-031/01	4680 General Sales Applic Source Code		10000									SC30-3367	7898	15M
+5669-032	4680 Supermarket Application		2250									GC20-3371	4680 OS 1.2	15M
+5669-032/01	4680 Supermarket Application Sourcecode		10000									GC20-3371	4643,7898	15M
+5669-033	4680 Operating System		1250									SC30-3367	AT Store Controller	15M
+5669-033/01	4680 Operating System Mult Contrlr Feat		625			437						SC30-3367	4606,9001,5898	15M
+5669-034	4680 BASIC		2500									SC30-3356	4680 Operating System	15M
+5669-050	Graphics Development Toolkit		700									SV21-8058	RT AIX tm	05H
+5669-052	3278/79 Emulation		500									SV21-8032	AIX tm on RT	05H
+5669-053	INmail tm/INnet tm/File Transfer Program		625										AIX tm on RT	05H
+5669-054	BASIC Interpreter and Compiler		1000									SV21-8018	RT AIX tm	05H
+5669-055	Pascal Compiler		1000									SV21-8015	RT AIX tm	05H
+5669-056	BASIC		1000									SV21-8018	RT AIX tm	05H
+5669-057	AT Co-processor Services		550									SV21-8028	AIX tm on RT	05H
+5669-058	Structured Query Language/RT Data Base	SQL	1000									SV21-8033	RT AIX+Data Mgt	05H
+5669-059	Data Management Services		500									SV21-8015	RT AIX tm	05H
+5669-060	AIX Virtual Resource Manager		1000									GC23-0784	RT	05H
+5669-061	Advanced Interactive Executive tm	AIX tm	3400									GC23-0784	RT	05H
+5669-062	Graphical File System		600									SV21-8060	RT AIX tm	05H
+5669-063	Plotting System		600									SV21-8059	RT AIX tm	05H
+5669-064	Graphics Terminal Emulator		600									SV21-8061	RT AIX tm	05H
5669-067	Programmers ToolKit Version 2 5.25"		160									CS05 2		05X
5669-067/01	Programmers ToolKit Version 2 8"		160									4517		05X
5669-068	Assembler 2 5.25" diskette		495									CS05 2 9000		05X
5669-068/01	Assembler 2 8" diskette		495									4516		05X
5669-069	Pascal 2 5.25" diskette		695									CS05 2		05X
5669-069/01	Pascal 2 8" diskette		695									4515		05X
5669-070	FORTRAN 2 5.25" diskette		695									CS05 2 9000		05X
5669-070/01	FORTRAN 2 8" diskette		695									4514		05X
5669-071	C Version 2 5.25" diskette		595									CS05 2		05X
5669-071/01	C Version 2 8" diskette		595									4513		05X
5669-072	CS05 2 5.25" diskette		495									System 9000		05X
5669-072/01	CS05 2 8" diskette		495									4512		05X
5669-073	3101 Terminal Emulation 1 5.25"		160									CS05 1.13		05X
5669-073/01	3101 Terminal Emulation 1 8"		160									4511		05X
5669-074	SmarTerm tm 100 1 5.25" diskette		165									CS05 1.13		05X
5669-074/01	SmarTerm tm 100 1 8" diskette		165									4510		05X
5669-075	CS05 Extensions 1.13 5.25" diskette		155									System 9000		05X
5669-075/01	CS05 Extensions 1.13 8" diskette		155									4509		05X
5669-076	Personal Editor 1 9002 5.25" diskette		125									CS05 Ext 1.13		05X

Number	Program Title	Short Name	OTC	ILC	MLC	DSQ	DSI	DSM	MLP	MML	Mo	MoreInfo	Environment	PLS
5669-076/01	Personal Editor 1 9001 5.25" diskette		125										4508	05X
5669-076/02	Personal Editor 1 9001 5.25" diskette		125										4508 w/o printer	05X
5669-076/03	Personal Editor 1 9002 8" diskette		125										4508	05X
5669-076/04	Personal Editor 1 9001 8" diskette		125										4508	05X
5669-076/05	Personal Editor 1 9001 8" diskette		125										4508 w/o printer	05X
5669-077	Pascal 1.2 5.25" diskette		595										CS05 Ext 1.13	05X
5669-077/01	Pascal 1.2 8" diskette		595										4507	05X
5669-078	FORTRAN 1.2 5.25" diskette		595										CS05 Ext 1.13	05X
5669-078/01	FORTRAN 1.2 8" diskette		595										4506	05X
5669-079	BASIC 1.2 5.25" diskette		195										CS05 Ext 1.13	05X
5669-079/01	BASIC 1.2 8" diskette		195										4505	05X
5669-081	C 1.2 5.25" diskette		595										CS05 Ext 1.13	05X
5669-081/01	C 1.2 8" diskette		595										4503	05X
5669-082	BASIC 2 5.25" diskette		495										CS05 2	05X
5669-082/01	BASIC 2 8" diskette		495										4579	05X
5669-083	Scientific Subroutine Library 1.1 5.25"		325										CS05 Ext 1.13	05X
5669-083/01	Scientific Subroutine Library 1.1 8"		325										4520	05X
+5669-086	Workstation Publishing Software tm		1995									SV21-8084	RT AIX	05Z
+5669-087	SAMNA+ tm		1295									SV21-8057	RT AIX	05Z
+5669-088	SOLOMON III tm General Ledger		995									SV21-8041	RT AIX	05Z
+5669-089	SOLOMON III tm Accounts Receivable		995									SV21-8041	General Ledger	05Z
+5669-090	SOLOMON III tm Accounts Payable		995									SV21-8041	General Ledger	05Z
+5669-091	SOLOMON III tm Payroll		995									SV21-8041	General Ledger	05Z
+5669-092	SOLOMON III tm Purchasing		995									SV21-8041	Accounts Payable	05Z
+5669-093	SOLOMON III tm Order Entry/Invoicing		995									SV21-8041	Accounts Receivable	05Z
+5669-094	SOLOMON III tm Job Costing		1395									SV21-8041	General Ledger	05Z
+5669-095	SOLOMON III tm Fixed Assets		995									SV21-8041	General Ledger	05Z
+5669-096	SOLOMON III tm Sales Analysis		595									SV21-8041	OrderEntry+Inventory	05Z
+5669-097	SOLOMON III tm Inventory		995									SV21-8041	General Ledger	05Z
+5669-098	SOLOMON III tm Address and Mail list		395									SV21-8041	General Ledger	05Z
+5669-099	SOLOMON III tm Database Reporter		995									SV21-8041	General Ledger	05Z
+5669-100	Applix tm IA		1995									SV21-8085	RT AIX	05Z
+5669-101	UNIRAS tm RASPAC SOLIDS		4995										RT AIX	05Y
+5669-102	UNIRAS tm UNIMAP		7650										RT AIX	05Y
+5669-103	LP/PROTRAN	IMSL tm	2700										RT AIX	05Y
+5669-104	MATH/PROTRAN		2100										RT AIX	05Y
+5669-105	STAT/PROTRAN		1495										RT AIX	05Y
+5669-106	SFUN/Library		1495										RT AIX	05Y
+5669-107	IMSL Library		3500										RT AIX	05Y
+5669-108	UNIRAS tm RASPAC		3550										RT AIX	05Y
+5669-109	UNIRAS tm GEOPAK		6995										RASPAC/RASPAC SOLIDS	05Y
+5669-110	UNIRAS tm GEOINT		1595										GEOPAK	05Y
+5669-111	UNIRAS tm KRIGPAK		3550										GEOPAK	05Y
+5669-112	UNIRAS tm GIMAGE		2595										SEISPAK	05Y
+5669-113	UNIRAS tm SEISPAK		7650										RASPAC/RASPAC SOLIDS	05Y
+5669-114	UNIRAS tm UNIGRAPH		2995										RT AIX	05Y
+5669-115	UNIRAS tm BIZPACK		2595										RASPAC/RASPAC SOLIDS	05Y
+5669-117	UNIRAS tm UNIEDIT		2595										RASPAC/RASPAC SOLIDS	05Y
5669-135	Diagnostics Diskettes Version 29 8"		nc										CS05 1.13	NO5X
5669-161	381Z Fonts - Sonoran Serif		640										381Z Font Mgt System	05H

Number	Program Title	Short Name	QTC	ILC	MLC	DSO	DSI	DSM	MLP	MML	Mo	MoreInfo	Environment	TPLS
5669-162	3812 Fonts - Sonoran Sans Serif		640										3812 Font Mgt System	05H
5669-163	3812 Fonts - Pi and Specials		480										3812 Font Mgt System	05H
+5669-167	Personal graPHIGS 1.2		1000									SC33-8100	RT AIX	05E
+5669-187	RS/1 tm		5500										RT AIX	05H
+5669-191	Computer-Integrated Electrical Design	CIEDS tm	6000										AT	05G
+5669-192	Computer-Integrated Electrical Design	CIEDS tm	8000										RT AIX	05H
+5669-193	Professional CADAM tm		15000										RT AIX tm+graPHIGS	05H
+5669-206	CAEDS (R) Base 1.0		1655										RT	05H
+5669-207	CAEDS (R) Object Modeler 1.0		6060										RT	05H
+5669-208	CAEDS (R) System Modeler 1.0		8230										RT	05H
+5669-209	CAEDS Graphics Finite Element Modeler 1.		8940										RT	05H
5708-AS1	Assembly Language		1750		55	1310		41				GC21-7801	5280 Data System	15X
5710-CAT	Computer Assisted Training 1.2		990									GB30-2233	System/36, S/36 PC	15H
5710-DD1	Hotel Reservation & Guest Accounting Sys		66000									GB30-2034	System/38	15H
5710-DD2	EDX Point of Sale - Hospitality		19900									GB30-2499	Series/1	25H
5710-GA4	Public Sector Budgeting/Accounting		10890										System/36	15H
5710-GA5	Public Sector Payroll & Personnel Acctg	PSAS	4400										System/36	15I
5710-GA6	Public Sector Acctg Sys - Utility Acctg	PSAS	8500										System/36	15I
5710-RRL	OFFICE/38 - WORKSHEET/38 tm		2790									GB30-2383	System/38	15I
5710-RTJ	RPS PC Connectivity - Common Sign & Menu		550									GB30-2428	5799-TGC+PC	15X
5710-RTJ/01	RPS PC Connectivity - Printer Emulation		385										2110	15X
-5710-RTK	RPS Life Agency System - Common Base		880									GB30-2424	Series/1	15X
5710-RTK/01	RPS Client Prospect File		5170		40								2105,2112	15X
5710-RTK/02	RPS Sales Proposals and Illustrations		2530		235								2106,2113	15X
5710-RTK/03	RPS Expanded Estate Planning		1210		115								2107,2114	15X
5710-RTN	Interactive Cost Estimating - Base	CES	12650									GB30-2450	System/36	15H
5710-RTP	General Contractor Module	CES	8250									GB30-2450	5710-RTN	15H
5710-RTQ	Drywall Contractor Module	CES	2200									GB30-2450	5710-RTN	15H
5710-RTR	Interactive Cost Estimating - Base	CES	12650									GB30-2450	System/36	15H
5710-RTT	Electrical Contractor Module	CES	8250									GB30-2450	5710-RTR	15H
5710-RTW	Plumbing Contractor Module	CES	3300									GB30-2450	5710-RTR	15H
5710-RTX	Fire Protection Module	CES	1100									GB30-2450	5710-RTR	15H
5710-RTY	Mechanical Contractor Module	CES	3850									GB30-2450	5710-RTR	15H
5710-RTZ	Bid Day System	CES	1650									GB30-2450	System/36	15H
5712-AAA	Customer Information System	CIS ADS	24860		2260							12.GE20-0441	05/VS	05E
5712-AAA/01	Customer Information System Design Svc	CIS ADS	4385		399							12.GE20-0441	9096	05
5712-AB	Distribution Construction Information	DCIS ADS	60500		5500							12.GE20-0613	D05/D05/IMS/CICS/VS	05C
+5713-AAA	CAEDS (R) Base Version 2.0		7825		265	5480		185					VM,MVS	15E
+5713-AB	CAEDS (R) Object Modeler		varies		465								Base	V1UE
+5713-AAC	CAEDS (R) System Modeler		varies		605								Base	V1UE
+5713-AD	CAEDS Graphics Finite Element Modeler		varies		600								Base	V1UE
+5713-AE	CAEDS Integrated Finite Element Solver		varies		485								Base	V1UE
+5713-AF	CAEDS System Dynamics Analysis		varies		1050								Base	V1UE
5714-BA1	BASIC		3600		205	3168		180				GC21-9044	System/38	15A
5714-CB1	C0B0L		7200		276	6336		242				GC21-7764	System/38	15A
5714-CR1	Cryptographic Facility		5000		250							SC21-8026	System/38	15A
5714-CV2	Conversion Reformat Utility		600		20	528		18				GC21-7779	System/38	15A
5714-CV5	System/34 to System/38 Conversion		1625									GH30-0460	System/38	05D
5714-CV7	S/3 CCP to S/38 Conversion	PROD AID	2810									GC21-7772	System/38	05X
5714-CV9	System/36 to S/38 Conversion Aid 1.2.0		600									GC21-8025	S/36+S/38	11A

Number	Program Title	Short Name	OTC	ILC	MLC	DSO	DSI	DSM	MLP	MML	Mo	MoreInfo	Environment	TPLS
5714-DCT	Language Dictionaries	OFFICE/38	195			172						GC09-1021	5714-WP2	1SA
5714-D41	Customer Service Billing Distribution	DMS/38	4985	173	3735		129					.GH30-0150	System/38	1IX
5714-D42	Accounts Receivable Distribution	DMS/38	4355	151	3265		112					.GH30-0150	System/38	1IX
5714-D43	Inventory Control Distribution	DMS/38	4670	163	3505		123					.GH30-0150	System/38	1IX
5714-D44	Sales Analysis Distribution	DMS/38	4040	139	5030		105					.GH30-0130	System/38	1ID
5714-D45	Purchasing Distribution	DMS/38	9605	335	7205		250					.GH30-0595	System/38	1IX
5714-D46	Inv Mgmt Prod Rep & Ord Val Eval Improve	DMS/38	9975	349	7475		261					.GH30-0080	System/38	1ID
5714-D47	General Ledger Distribution / Media	DMS/38	2675	93	2010		70					.GH30-0710	System/38	1ID
5714-D48	Accounts Payable Distribution	DMS/38	2675	93	2010		70					.GH30-0710	System/38	1ID
5714-D49	Payroll Distribution	DMS/38	3410	119	2560		89					.GH30-0710	System/38	1ID
5714-GP1	Business Graphics Utility	OFFICE/38	2000	107	1760		94					GC09-1060	System/38	1SE
5714-M4A	Data Collection System Support	MAPICS	4410	157	3305		119					.GH30-0709	System/38	1ID
5714-M4B	Material Requirements Planning	MAPICS	6665	239	5000		178					.GH30-0709	System/38	1ID
5714-M4G	Capacity Requirements Planning	MAPICS	6560	234	4920		175					.GH30-0482	System/38	1ID
5714-M4I	Production Control and Costing	MAPICS	6665	231	5000		178					.GH30-0709	System/38	1ID
5714-M4J	Payroll Manufacturing	MAPICS	3410	123	2560		92					.GH30-0710	System/38	1ID
5714-M43	Accounts Payable	MAPICS	2675	95	2010		71					.GH30-0710	System/38	1ID
5714-M44	Accounts Receivable	MAPICS	2675	95	2010		70					.GH30-0708	System/38	1ID
5714-M45	Inventory Management	MAPICS	3465	124	2595		92					.GH30-0708	System/38	1ID
5714-M46	Product Data Management	MAPICS	5985	213	4485		159					.GH30-0709	System/38	1ID
5714-M47	General Ledger	MAPICS	2675	95	2010		71					.GH30-0710	System/38	1ID
5714-M48	Sales Analysis	MAPICS	3410	121	2560		90					.GH30-0708	System/38	1ID
5714-M49	Order Entry and Invoicing	MAPICS	4040	142	3175		105					.GH30-0708	System/38	1ID
+5714-M7A	Data Collection System Support	MAPICS II	5180	260	4558							.GH30-9037	System/38	1SE
5714-M7A/01	Data Collection - Upgrade from MAPICS	MAPICS II	2030		1786							.4628, 9619		1SE
+5714-M7B	Material Requirements Planning	MAPICS II	8050	405	7084							.GH30-9037	System/38	1SE
5714-M7B/01	Material Reqt's Plannng - Upgr from MAPICS	MAPICS II	3290		2895							.4631, 9621		1SE
+5714-M7G	Capacity Requirements Planning	MAPICS II	7480	375	6582							.GH30-9037	System/38	1SE
5714-M7G/01	Capacity Reqt's Plannng - Upgr from MAPICS	MAPICS II	2790		2455							.4634, 9623		1SE
+5714-M7H	MAPICS II Financial Analysis Release 1		6900		6070							.SB30-3279	System/38	1SE
+5714-M7J	MAPICS II Master Prod Sched Plan Rel 1		13230		11640							.SB30-3285	System/38	1SE
+5714-M7L	MAPICS II Forecasting Release 1		12650		11132							.SB30-3402	System/38	1SE
+5714-M7X	Cross Application System Support	MAPICS II	2420	120	2130							.GH30-9037	System/38	1SE
5714-M7X/01	Cross Applic Sys Suppt- Upgr from MAPICS	MAPICS II	2420	120	1230							.4623, 9623		1SE
+5714-M7I	Production Control and Costing	MAPICS II	8450	425	7436							.GH30-9037	System/38	1SE
5714-M7I/01	Production Ctl - Upgrade from MAPICS	MAPICS II	3690		3247							.4601, 9601		1SE
+5714-M72	Payroll	MAPICS II	4370	220	3846							.GH30-9036	System/38	1SE
5714-M72/01	Payroll - Upgrade from MAPICS		1930		1698							.4604, 9603		1SE
+5714-M73	Accounts Payable	MAPICS II	3220	160	2834							.GH30-9036	System/38	1SE
5714-M73/01	Accounts Payable - Upgrade from MAPICS	MAPICS II	1310		1153							.4607, 9605		1SE
+5714-M74	Accounts Receivable	MAPICS II	3220	160	2834							.GH30-9037	System/38	1SE
5714-M74/01	Accounts Receivable Upgrade from MAPICS	MAPICS II	1310		1153							.4610, 9607		1SE
+5714-M75	Inventory Management	MAPICS II	5750	290	5060							.GH30-9037	System/38	1SE
5714-M75/01	Inventory Management Upgrade from MAPICS	MAPICS II	3280		2886							.4613, 9609		1SE
+5714-M76	Product Data Management	MAPICS II	8860	445	7797							.GH30-0937	System/38	1SE
5714-M76/01	Product Data Mgt - Upgrade from MAPICS	MAPICS II	4590		4039							.4616, 9611		1SE
+5714-M77	General Ledger	MAPICS II	3680	185	3238							.GH30-9036	System/38	1SE
5714-M77/01	General Ledger - Upgrade from MAPICS	MAPICS II	1770		1558							.4619, 9613		1SE
+5714-M78	Sales Analysis	MAPICS II	4200	210	3696							.GH30-9035	System/38	1SE
5714-M78/01	Sales Analysis - Upgrade from MAPICS	MAPICS II	1760		1349							.4622, 9615		1SE

Number	Program Title	Short Name	OTC	ILC	MLC	DSO	DSI	DSM	HLP	MML	Mo	MoreInfo	Environment	TPLS
+5714-M79	Order Entry and Invoicing	MAPICS II	5520		280	4858						.GH30-9036	System/38	1SE
5714-M79/01	Order Ent & Inv - Upgrade from MAPICS	MAPICS II	2630			2314						.4625,9617	System/38	1SE
5714-PC1	PC Support/38 1.7.0		995			876							S/38+PC,XT,AT,PPC	1SA
5714-PL1	PL/I		9800		524	8624		461				GC21-8017	System/38	1SA
5714-RC1	Remote Job Entry Facility	RJEF	5000		185	4400		163				GC21-7916	System/38	1SA
5714-RG1	RPG III		2800		108	2464		95				GC21-7762	System/38	1SA
5714-SS1	Control Program Facility 1.7.0	CPF	22000		869	19360		728				GC21-7729	System/38	1SA
5714-UT1	Interactive Data Base Utilities 1.7.0		3000		123	2640		108				GC21-7761	System/38	1SA
5714-UT2	Advanced Printer Functions 5224		1200			1056						GC21-7971	System/38+5224/5225	1SA
5714-WP1	OFFICE/38 Administrative Mgmt		1500			1320						GC21-7951	System/38	1SE
5714-WP2	OFFICE/38 Text Management		1800		67	1584		59				G580-0460	System/38	1SA
5714-WP3	OFFICE/38 Personal Services/38		6500		400	5720		352				GC09-1071	System/38	1SA
5714-WS1	Work Station Search Facility	WSF/38	827									.GH30-0458	System/38	1SD
5714-XE1	OFFICE/38 Applications Made Easy	AME	4400									.GB30-1952	System/38	1SX
5714-XR1	Display Information Alpha Search	DIF	3410		119	2560		89				.GH30-0145	System/38	11D
5715-AC1	Asynchronous Communications		600									GC34-0430	Sys/23 Datamaster	1IX
5715-BC1	Binary Synchronous Communications		850									GC34-0431	Sys/23 Datamaster	1IX
5715-CA1	Client Accounting		2230									.GB30-2796	Sys/23 Datamaster	1IE
5715-CV1	BASIC 5110/5120 to Sys/23 Conversion Aid		875									GC34-1693	Sys/23 Datamaster	1IE
5715-RG2	Business Report Application Development	BRADS III	1365									.G280-0237	Sys/23 Datamaster	1IX
5715-SP1	Print Spool		175									GC34-0500	Sys/23 Datamaster	1IX
5715-WP1	Word / Text Processing		500									GC34-0417	Sys/23 Datamaster	1IE
5715-WP2	Word Processing II		850									GC34-0497	Sys/23 Datamaster	1IX
5715-XX2	General Ledger Mgmt Info Multi Ind	BMAS	1225									.GB30-2733	Sys/23 Datamaster	1IX
5715-XX3	Accounts Payable Mgmt Info Multi Ind	BMAS	1225									.GB30-2744	Sys/23 Datamaster	1IX
5715-XX4	Accounts Receivable Mgmt Info Multi Ind	BMAS	1225									.GB30-2722	Sys/23 Datamaster	1IX
5715-XX5	Payroll Mgmt Info Multi Ind	BMAS	1225									.GB30-2755	Sys/23 Datamaster	1IX
5715-XX6	Inventory Accounting Mgmt Info Multi Ind	BMAS	1225									.GB30-2711	Sys/23 Datamaster	1IX
5715-XX7	Billing Mgmt Info Multi Ind	BMAS	1225									.GB30-2700	Sys/23 Datamaster	1IX
5715-XX2	General Ledger - Disk	BMAS	1790									.G280-0232	Sys/23 Datamaster	1IX
5715-XX3	Accounts Payable - Disk	BMAS	1790									.G280-0231	Sys/23 Datamaster	1IX
5715-XX4	Accounts Receivable - Disk	BMAS	1790									.G280-0230	Sys/23 Datamaster	1IX
5715-XX5	Payroll - Disk	BMAS	1790									.G280-0234	Sys/23 Datamaster	1IX
5715-XX6	Inventory Accounting - Disk	BMAS	1790									.G280-0233	Sys/23 Datamaster	1IX
5715-XX7	Billing - Disk	BMAS	1790									.G280-0229	Sys/23 Datamaster	1IX
5719-AM2	RPS Indexed Access Method Ver 2	IAM-V2RPS	1150		55							GC34-0395	Series/1	1SX
5719-AM4	EDX Indexed Access Method Version 2.1	IAM	1150		55							SC34-0771	Series/1	1SM
5719-ASA	EDX Macro Assembler		888		22								Series/1	1SX
5719-AS6	RPS Program Preparation Subsystem Ver 6	PPS	5265		273							GC34-0461	Series/1	1SC
5719-AS7	RPS Program Preparation Subsystem 7.2		6600		472							GC34-0614	Series/1	1SM
5719-CA1	System/370 Channel Attachment		1305		35							GC34-0217	Series/1	1SX
5719-CB5	EDX COBOL Compiler & Resident Libr V 2		4710		174							GC34-0388	Series/1	1SX
5719-CB6	EDX COBOL Transient Library Version 2		601		21							GC34-0389	Series/1	1SX
5719-CB7	RPS COBOL Compiler & Resident Libr V 2		4710		174							GC34-0390	Series/1	1SX
5719-CB8	RPS COBOL Transient Library Version 2		601		21							GC34-0391	Series/1	1SX
5719-CF1	Event Driven Executive Communic Ver 1.2	EDX/CF	2200		67							GL23-0070	Series/1	1SX
5719-CF2	EDX Communications Facility Version 2.1		2500		178							L230-103	5719-HD2	1SH
5719-CF2/01	EDX Communications Upgrade from Version1		300									9765		1SH
5719-CM2	RPS Communications Manager Version 2		5550		413								Series/1+5719-AS6	1SX
5719-CN1	Series/1-PC Connect		400									0520-0102	RPS and DDS	1SL

Number	Program Title	Short Name	OTC	ILC	MLC	DSO	DSI	DSH	MLP	MHL	Mo	MoreInfo	Environment	TPLS
5719-C50	RPS Prog Comm Subsys Preparation Facil		523		12							GC34-0183	Series/1	15X
5719-C52	RPS Prog Comm Subsys Extend Exec Support		1200		34							GC34-0186	Series/1	15X
5719-CX1	EDX System/370 Channel Attachment		2820		112							SC34-1701	Series/1	15E
5719-DSD	EDX Store Item Receiving System		1600									.SB30-7013	COBOL+5719-TR1	2SE
5719-EM1	Series/1 Input/Output Executive Ver 1.1		650									SC34-0726	EDX or RPS+S/1-XT/AT	15M
5719-F02	FORTRAN IV Compiler & Obj Sup Lib Ver 2		950		22							GC34-0306	EDX/RPS	15C
5719-F04	FORTRAN IV Realtime Subrou Libr Ver 2		351		9							GC34-0140	RPS	15C
5719-GP1	7361 Fastdraft System			1070	160					36		GC34-0513	7361+3101+3251	25X
5719-HD1	RPS X.25 / High-Level Data Link Control	X.25/HDLC	2500		158							GC09-1026	Series/1	15X
5719-HD2	EDX X.25 / HDLC Communications Support	X.25/HDLC	2750		162							GC09-1026	EDX Version 4	15X
5719-IM2	RPS Mathematical & Functional Subroutine		502		12							GC34-0138	Series/1	15C
5719-IM3	EDX Math & Functional Subroutine Library		502		12							GC34-0137	Series/1	15C
5719-IM8	EDX Macro Library Version 4		3635		231								Series/1	15X
5719-IM9	EDX Macro Library Version 5.2		4000		286							GC34-0099	Series/1	15L
5719-MS2	EDX Multiple Terminal Manager Version 2	MTM	727		28							GC34-1700	Series/1	15X
5719-MT1	RPS Multiple Terminal Manager Version 3	MTM	750		36							GC34-0456	Series/1	15X
5719-PA1	Base Program Preparation Facility		2375		144					24		GC34-0091	Series/1	15C
5719-PC4	RPS Ver 4 with Command Language		3230		79							GC34-0202	Series/1	15C
5719-PC4/01	RPS Ver 4 without Command Language		2475		60							GC34-0202	9572,9573	15C
5719-PC5	RPS Ver 5 with Command Language		4940		187							GC34-0351	Series/1	15X
5719-PC6	RPS Version 6		7500		509							GC34-0471	Series/1	15X
5719-PC6/01	RPS Multiprocessing with Command Language	MPF	5000		325							GC34-0471	9682,9683	15X
5719-PC7	Realtime Programming System Version 7.2		7000		500							GC34-0615	Series/1	15M
5719-PJ7	Realtime Programming System Version 7.2		2800									GC34-0614	Series/1-PC (4950)	15M
5719-PL2	RPS PL/I Compiler & Resident Lib Ver 2		7425		202							GC34-0281	Series/1	15C
5719-PL4	RPS PL/I Transient Library Version 2		1370		37							GC34-0282	Series/1	15C
5719-PL5	EDX PL/I Compiler & Resident Library		7425		202							GC34-0145	Series/1	15C
5719-PL6	EDX PL/I Transient Library		1370		37							GC34-0146	Series/1	15C
5719-RJ1	EDX Advanced Remote Job Entry	ARJE	1050		66							GC34-0458	S/1+MVS, VM, DOS/VSE	15X
5719-RJ4	RPS Advanced Remote Job Entry	ARJE	1050		36							GC34-0459	Series/1	15X
5719-RM1	EDX Remote Manager 1.2		2000		133							GL23-0138	DSX+HCF+NCCF+NPDA	15M
5719-RM6	RPS Remote Manager		2000		133								DSX+HCF+NCCF+NPDA	15X
5719-SC2	CPS Standalone Disk Utilities		nc									GC34-0070	Series/1	NO5C
5719-SM1	RPS Sort/Merge		315		10							GC34-0239	Series/1	15X
5719-SM2	EDX Sort/Merge		360		12							GL23-0015	Series/1	15X
5719-SX1	EDX Systems Network Architecture	SNA	2005		75							SC34-0402	Series/1	15X
5719-SX2	EDX Systems Network Architecture RJE	SNA	1000		34							SC34-0402	Series/1	15X
5719-THA	EDX to Texas Instruments (R) Controllers	57I, TI520	5000									GC34-0099	5719-CF1	15H
5719-THB	EDX to Gould Modicon MICRO tm Controllers		5000									GC34-0099	5719-CF1	15H
5719-THC	EDX to Allen-Bradley (R) Controllers		5000									GC34-0099	5719-CF1	15H
5719-THD	EDX to General Electric Series 6 tm Supt		5000									GC34-0099	5719-CF1	15H
5719-TR1	EDX Transaction Processing System 1.2		2950									SC34-0605	Series/1	15M
5719-TR6	RPS Transaction Processing System 1.2		2950									SC34-0605	Series/1	15M
5719-UN1	Series/1 Interactive Executive	IX	6500									GA34-0298	4956 Processor	15L
5719-UT4	EDX Utilities Version 2		1135		27							GC34-0354	Series/1	15C
5719-U11	Energy Facility Control Power Mgmt	FC/PM1	6515		196						48.	GC34-0063	Series/1	15C
5719-U12	Energy Facility Control Power Mgmt	FC/PM2	9900		325						48.	GH30-0094	Series/1	15C
5719-U12/01	Energy 3 Special Feature	FC/PM3	2740		90						48.	GH30-0094	6000,6001	15C
5719-U13	Energy Facility Control Power Mgmt	FC/PM4	12980		390						48.	GH30-0500	Series/1	15C
5719-U14	Energy Facility Control Power Mgmt	FC/PM2M	4840		160						48.	GH30-0094	Series/1	15C

Number	Program Title	Short Name	DTC	ILC	MLC	DSO	DSI	DSH	HLP	HML	Mo	MoreInfo	Environment	TPLS
5719-U14/01	Energy Special Feature	FC/PM3	2740		90							48.GH30-0094	6000,6001	15C
5719-U15	Energy Facility Control Power Mgmt	FC/PM4M	6050		198							48.GH30-0500	Series/1	15C
5719-U20	RPS Audio Distribution System	ADS	12700		480							6580-0363	5719-PC5,-PL4	15E
5719-U21	RPS Audio Distribution System Version 2	ADS	15200	1850	1015							6520-1060	Series/1+PL/I	15H
5719-U21/01	RPS ADS Version 2 Upgrade from Version 1		2675											15H
5719-U21/02	RPS ADS Additional Languages (per each)		1060		70								4000,5000	15H
5719-XJ5	Event Driven Executive Version 5.2	EDX	750									GC34-0099	Series/1-PC (4950)	15M
5719-XR1	EDX Query	QUERY	792		28							GC34-0457	5719-MS2	15X
5719-XR2	RPS Query	QUERY	792		28							GC34-0457	5719-MT1	15X
5719-XS4	EDX Basic Supervisor and Emulator Ver. 4		1900		141								Series/1	15X
5719-XS5	EDX Basic Supervisor & Emul Ver 5.2		2200		158							GC34-0099	Series/1	15M
5719-XS5/01	EDX Upgrade Version 4 to 5		300										9782	15L
+5719-XT1	EDX MAP tm Application Server		4500		321							SL23-0150	XHCS	15M
+5719-XT2	RPS MAP tm Communications Server		9500		679							SL23-0148	XHCS	15M
+5719-XT3	RPS Office Connect 1.0		6600									GC09-1116	Series/1	15M
+5719-XT4	EDX Primary SNA 1.0		2995		214								Series/1	15M
+5719-XT5	EDX Network Definition Utility 1.0		1950										Series/1	15M
5719-XX5	EDX Program Preparation Facility Ver. 4		2925		186								Series/1	15X
5719-XX6	EDX Program Preparation Facility V 5.2		3200		229							GC34-0099	Series/1	15L
5719-XX6/01	EDX Prog Prep Upgrade from Version 4 to 5		275										9783	15L
+5719-XX9	EDX Systems Network Architecture Ver 2.0		2500		180							SC34-0773	Series/1	15M
5726-AS1	Assembler & Macro Processor		4000		165	3000		124				GC21-7840	System/34	15X
5726-BA1	BASIC		1900		76	1425		57				GC21-7841	System/34	15X
5726-BA2	BASIC Subset	MSU	390									GC21-9035	System/34	15A
5726-BR1	Business Report Application Development	BRADS	1650									GB30-2554	System/34	11X
5726-CB1	COBOL		3900		160	2925		120				GC21-7745	System/34	15X
5726-C21	Client Account & Financial Reporting Sys	CAFERS	4100		182							.GH30-0230	System/34	11C
5726-C22	Client Account & Financial Report Sys II	CAFERS	7400		280	5550		196				.GH30-0230	System/34	11X
5726-DM5	Over-the-Counter Inv & Accts Rec Inquiry	DMAS II	2255									GB30-2501	System/34	15C
5726-D4A	Billing Distributors	DMAS	2585		134							.GH30-0093	System/34	11X
5726-D4B	Accounts Receivable Distributors	DMAS	1650		86							.GH30-0093	System/34	11X
5726-D4C	Inventory Control Distributors	DMAS	2365		122							.GH30-0093	System/34	11X
5726-D4D	Sales Analysis Distributors	DMAS	2150		111							.GH30-0093	System/34	11X
5726-D4E	Billing Lumber Dealers	LDMAS	2400		125							.GH30-0166	System/34	11X
5726-D4F	Accounts Receivable Lumber Dealers	LDMAS	1650		86							.GH30-0166	System/34	11X
5726-D4G	Inventory Control Lumber Dealers	LDMAS	2150		111							.GH30-0166	System/34	11X
5726-D4H	Sales Analysis Lumber Dealers	LDMAS	2150		111							.GH30-0166	System/34	11X
5726-D4I	Billing Distributors	DMAS II	3885		157	2910		118				.GH30-0185	System/34	11X
5726-D4J	Accounts Receivable Distributors	DMAS II	2675		108	2010		79				.GH30-0185	System/34	11X
5726-D4K	Inventory Control Distributors	DMAS II	3515		143	2640		108				.GH30-0185	System/34	11X
5726-D4L	Sales Analysis Distributors	DMAS II	3350		125	2515		88				.GH30-0185	System/34	11X
5726-D46	Purchasing Distributors	DMAS II	7455		303	5590		226				.GH30-0185	System/34	11D
5726-D6A	General Ledger Distributors	DFAS	1260		59							.GH30-0219	System/34	11C
5726-D6B	Accounts Payable Distributors	DFAS	1260		59							.GH30-0219	System/34	11C
5726-D6C	Payroll Distributors	DFAS	1575		77							.GH30-0219	System/34	11C
5726-D65	Billing Food Distributors	FDMAS	2640		137							.GH30-0156	System/34	11X
5726-D66	Accounts Receivable Food Distributors	FDMAS	1815		95							.GH30-0156	System/34	11X
5726-D67	Inventory Control Food Distributors	FDMAS	2365		122							.GH30-0156	System/34	11X
5726-D68	Sales Analysis Food Distributors	FDMAS	2150		95							.GH30-0156	System/34	11X
5726-FM1	3270 Devic Emulation on S/34		5500		223	4125		167				GC21-7807	System/34	15X

Number	Program Title	Short Name	OTC	ILC	MLC	DSO	DSI	DSM	HLP	MML	No	ForeInfo	Environment	TPLS
5726-E31	Student Records School Administration	SAS	3095		151							.GH30-0410	System/34	11X
5726-E32	Student Accounting School Administration	SAS	3410		167							.GH30-0414	System/34	11X
5726-E33	Student Scheduling School Administration	SAS	4095		200							.GH30-0415	System/34	11X
5726-F01	FORTRAN IV		5400		222	4050		166				GC21-7685	System/34	15X
5726-F11	Customer Information File Banking	CIF	4000		210							.G360-0050	System/34	11X
5726-F12	Demand Deposit Accounting Banking	DDA	3600		188							.G360-0050	System/34	11X
5726-F13	Savings Accounting Banking		3550		184							.G360-0050	System/34	11X
5726-F14	Installment Loan Accounting Banking		4100		213							.G360-0050	System/34	11X
5726-G21	Public Budgeting & Accounting Appl Govt	PBA	12230		468	9175		350				.GH30-0229	System/34	11X
5726-H11	Patient Billing Hospital	HFMS	1555		82							.GH30-0404	System/34	11D
5726-H12	Accounts Receivable Hospital	HFMS	1375		70							.GH30-0405	System/34	11D
5726-H13	Payroll Hospital	HFMS	2640		137							.GH30-0406	System/34	11D
5726-H14	General Ledger/Accounts Payable Hospital	HFMS	2090		108							.GH30-0407	System/34	11D
5726-H15	Medical Group Management System	MGMS	3900		174							.GH30-0228	System/34	11C
5726-H16	Medical Group Management System II	MGMS II	9815		374	7365		280				.GH30-0228	System/34	11X
5726-K11	Membership and Mailing List System		2950		152							.GH30-0454	System/34	11C
5726-M3A	5230 Data Collection Support	DCSS	1575		77							.GH30-0220	System/34	11C
5726-M31	Production Status and Costing Mfg	MMAS	1575		77							.GH30-0220	System/34	11C
5726-M32	Payroll - Mfg	MMAS	1575		77							.GH30-0220	System/34	11C
5726-M33	Accounts Payable - Mfg	MMAS	1260		59							.GH30-0220	System/34	11C
5726-M34	Accounts Receivable - Mfg	MMAS	1310		62							.GH30-0220	System/34	11C
5726-M35	Inventory Management - Mfg	MMAS	1575		77							.GH30-0220	System/34	11C
5726-M36	Product Definition & Costing - Mfg	MMAS	1470		72							.GH30-0220	System/34	11C
5726-M37	General Ledger - Mfg	MMAS	1260		59							.GH30-0220	System/34	11C
5726-M38	Sales Analysis - Mfg	MMAS	1575		77							.GH30-0220	System/34	11C
5726-M39	Order Entry and Invoicing - Mfg	MMAS	1940		94							.GH30-0220	System/34	11C
5726-M4A	Data Collection System Support Mfg	MAPICS	4115		167	3110		125				.GH30-0221	System/34	11X
5726-M4B	Material Requirements Planning	MAPICS	6405		261	4800		195				.GH30-0221	System/34	11X
5726-M4G	Capacity Requirements Planning	MAPICS	5615		228	4215		171				.GH30-0221	System/34	11X
5726-M4I	Production Control and Costing	MAPICS	6405		261	4800		195				.GH30-0221	System/34	11X
5726-M4J	Payroll Distributors Mfg	DFAS II	3620		146	2715		109				.GH30-0221	System/34	11X
5726-M43	Accounts Payable	DFAS II	2675		108	2010		79				.GH30-0221	System/34	11X
5726-M44	Accounts Receivable	DFAS II	2675		108	2010		79				.GH30-0221	System/34	11X
5726-M45	Inventory Management	MAPICS	3685		143	2640		108				.GH30-0221	System/34	11X
5726-M46	Product Data Management	MAPICS	6105		238	16500		177				.GH30-0221	System/34	11X
5726-M47	General Ledger	DFAS II	2675		108	2010		79				.GH30-0221	System/34	11X
5726-M48	Sales Analysis	MAPICS	3515		143	2640		108				.GH30-0221	System/34	11X
5726-M49	Order Entry and Invoicing	MAPICS	3935		161	2955		119				.GH30-0221	System/34	11X
5726-M6A	Revenue Accounting Construction A/R	CMAS/34	3725		151	2795		112				.GH30-0707	System/34	11D
5726-M61	Job Costing - Construction	CMAS/34	1310		62							.GH30-0707	System/34	11C
5726-M62	Accounts Payable - Construction SPM	CMAS/34	1625		78							.GH30-0707	System/34	11C
5726-M63	Payroll - Construction	CMAS/34	2255		109							.GH30-0707	System/34	11C
5726-M64	General Ledger - Construction	CMAS/34	1310		62							.GH30-0707	System/34	11C
5726-M66	Job Costing - Construction	CMAS/34	2360		98	1770		73				.GH30-0707	System/34	11D
5726-M67	General Ledger - Construction	CMAS/34	2360		98	1770		73				.GH30-0707	System/34	11D
5726-M68	Accounts Payable	CMAS/34	3200		131	2400		98				.GH30-0707	System/34	11D
5726-M68/01	Committed Cost / Cost History Feature	CMAS/34	1730		70	1300		51				.GH30-0707	6021,6026,6592,6526	11D
5726-M69	Payroll and Labor Costing - Construction	CMAS/34	4250		173	3190		129				.GH30-0707	System/34	11D
5726-PT1	Personal Teaching Aid	PTA/34	600									.G580-0534	System/34	15X
5726-PT1/01	Personal Teaching Aid - Authoring	PTA/34	1200									.G580-0534	6025	15X



Number	Program Title	Short Name	OTC	ILC	MLC	DSO	DSI	DSM	MLP	MML	Mo	MoreInfo	Environment	TPLS
5726-RG1	RPG II		1300		52	975		39				GC21-7669	System/34	15X
5726-RG2	RPG II Subset		270									GC21-9034	System/34	15A
5726-SS1	System Support Program	SSP	4500		187	3375		140				GC21-7702	System/34	15X
5726-SS1/01	Interactive Communications Feature	ICF	3700		151	2775		114				G580-0295	6000,6511,6558,6509	15A
5726-SS1/02	3600 4700 Finance Communication	FSF	6200		254	4650		190				G580-0295	6010,6513,6557,6510	15A
5726-SS2	System Support Program Subset Preconfig	SSP	900									GC21-9032	System/34	15A
5726-T21	Motor Freight Revenue Accounting	MFAS	8030		420							.GH30-0413	System/34	11X
5726-UT1	Utilities	DFU	1600		64	1200		48				GC21-7659	System/34	15X
5726-UT2	Utilities Subset	SEU	330									GC21-9033	System/34	15A
5726-XA7	Financial Applications Bridge - Retail	RMAS	5600		188						24	.GH30-0136	System/34	15E
5726-XBA	Accounts Receivable	BMAS	1700									.G280-0230	System/34	11X
5726-XBB	General Ledger	BMAS	1700									.G280-0232	System/34	11X
5726-XBC	Accounts Payable	BMAS	1700									.G280-0231	System/34	11X
5726-XBD	Payroll	BMAS	1700									.G280-0234	System/34	11X
5726-XB8	Billing	BMAS	1700									.G280-0229	System/34	11X
5726-XB9	Inventory Accounting	BMAS	1700									.G280-0233	System/34	11X
5726-XP1	Job Analysis System	CPM	5090		207	3820		154				.GH30-0511	System/34	15X
5726-XR1	Work Station Search Facility	WSF/34	503									.G580-0212	System/34	01B
5727-AB1	Hospital Information System	ADT/PBAR	16500		750							.SB30-7016	System/36	15H
5727-AB1/01	Hospital Info, Order Comm & Results Rept	OCV/RR	15000		750							.SB30-7049	6082	15H
5727-AB1/02	Hosp Info - Medical Records Abstracting	MRA	14300		650							.6083,6099		15H
5727-AB1/03	Hospital Info, In-service Training Modul		5000		750							.SB30-7049	6244	15H
5727-AP1	5224 / 5225 Advanced Printer Function	APF/36	700			615						GC21-7981	System/36	15X
5727-AP6	5224 / 5225 Advanced Printer Function		280			210						G580-0570	System/36 PC	05H
5727-AS1	Assembler and Macro Processor		4800		273	4220						GC21-7893	System/36	15X
5727-AS6	Assembler and Macro Processor		1920			1440						G580-0570	System/36 PC	05H
5727-BA1	BASIC		1600		90	1405						GC21-9011	System/36	15A
5727-BA6	BASIC		400			300						G580-0570	System/36 PC	05H
+5727-BG1	Business Graphics Utilities/36		800			704						G580-0454	S/36 (5360/2)	15A
+5727-BG6	Business Graphics Utilities/36		320			240						G580-0454	S/36 PC 5364	15A
5727-BRK	Personal Decision Series - Attachment/36		1155									.GH30-0757	S/36+6316972	15E
5727-BR1	Business Report Applic Develop Syst	BRADS	2225									.GH30-2576	System/36	15B
5727-CB1	COBOL Compiler and Library		2500		165	2200						GC21-9009	System/36	15A
5727-CB6	COBOL		1000			750						G580-0570	System/36 PC	05H
+5727-DS1	Development Support Utility		1000		70	880							System/36	15A
+5727-DS6	Development Support Utility		1000		70	880							System/36 5360/62	05M
5727-D4A	Cross Application System Support	CASS	1815		106	1360						.GH30-0690	S/36,S/36 PC+DMAS	15B
5727-D41	Distributors Mgt Acctg - Billing	DMAS	4070		233	3050						.GH30-0690	CASS	15B
5727-D42	Distributors Mgt Acctg - Accts Rec	DMAS	2805		163	2105						.GH30-0690	CASS	15B
5727-D43	Distributors Mgt Acctg - Inv Ctrl	DMAS	3685		214	2765						.GH30-0690	CASS	15B
5727-D44	Distributors Mgt Acctg - Sales Anal	DMAS	3685		214	2765						.GH30-0696	CASS	15B
5727-D45	Distributors Mgt Acctg - Purchasing	DMAS	7810		447	5855						.GH30-0696	CASS	15B
5727-D46	Distributors Mgt Acctg - Inv Mgmt	DMAS	6435		371	4825						.GH30-0690	CASS+5727-D43	15B
5727-D47	Distributors Mgt Acctg - Gen Ledger	DMAS	2805		163	2105						.GH30-0696	CASS	15B
5727-D48	Distributors Mgt Acctg - Accts Pay	DMAS	2805		163	2105						.GH30-0696	CASS	15B
5727-D49	Distributors Mgt Acctg - Payroll	DMAS	3795		220	2845						.GH30-0696	CASS	15B
5727-F01	FORTRAN IV		2800		159	2460						GC21-0910	System/36	15A
5727-F06	FORTRAN IV		1120			840						G580-0570	System/36 PC	05H
+5727-LC1	System/36 Local Area Network Communicatn	Token-Ring	925		75	8143						S/36+AT in a T-R net	15A	
+5727-LC6	System/36 PC Local Area Network Communic	Token-Ring	695			521						5364+AT in a TRN	15M	

Number	Program Title	Short Name	OTC	ILC	MLC	DSO	DSI	DSM	MPL	MML	Mo	MoreInfo	Environment	TPLS
5727-MA1	System/34 to System/36 Migration Aid		250									GC21-9058	System/34+System/36	OIX
5727-M4A	Data Collection System Support	MAPICS	4345		251	3260						.GH30-9002.CASS		1SB
5727-M4B	Material Requirements Planning	MAPICS	6710		383	5030						.GH30-9002.CASS		1SB
5727-M4G	Capacity Requirements Planning	MAPICS	5885		339	4415						.GH30-9002.CASS		1SB
5727-M4X	Cross Application System Support	CASS	1815		111	1360						.GH30-9002.System/36+MAPICS		1SB
5727-M41	Production Control and Costing	MAPICS	6710		383	5030						.GH30-9002.CASS		1SB
5727-M42	Payroll	MAPICS	3795		220	2845						.GH30-9001.CASS		1SB
5727-M43	Accounts Payable	MAPICS	2805		163	2105						.GH30-9001.CASS		1SB
5727-M44	Accounts Receivable	MAPICS	2805		163	2105						.GH30-9001.CASS		1SB
5727-M45	Inventory Management	MAPICS	3685		214	2765						.GH30-9002.CASS		1SB
5727-M46	Product Data Management	MAPICS	6105		353	4580						.GH30-9002.CASS		1SB
5727-M47	General Ledger	MAPICS	2805		163	2105						.GH30-9001.CASS		1SB
5727-M48	Sales Analysis	MAPICS	3685		215	2765						.GH30-9000.CASS		1SB
5727-M49	Order Entry and Invoicing	MAPICS	4125		238	3095						.GH30-9001.CASS		1SB
5727-M6A	Revenue Accounting	CMAS	3905		227	2930						.GH30-9003.System/36+CASS		1SB
5727-M6X	Cross Application System Support	CASS	1650		94	1235						.GH30-9003.S/36,S/36 PC,+CMAS		1SB
5727-M66	Job Costing	CMAS	2475		145	1855						.GH30-9003.CASS		1SB
5727-M67	General Ledger	CMAS	2475		145	1855						.GH30-9003.CASS		1SB
5727-M68	Accounts Payable	CMAS	3355		195	2515						.GH30-9003.CASS		1SB
5727-M68/01	Committed Cost / Cost History Feature	CMAS	1815		106	1360		85				.GH30-9003.4566,4586,4619,6007		1SB
5727-M69	Payroll And Labor Costing	CMAS	4455		257	3340						.GH30-9003.CASS		1SB
5727-M7A	Data Collection	MAPICS II	4950		247	4355						.GH30-9006.CASS		1SE
5727-M7B	Material Requirements Planning	MAPICS II	7700		385	6775						.GH30-9006.CASS		1SE
5727-M7G	Capacity Requirements Planning	MAPICS II	7150		357	6290						.GH30-9006.CASS		1SE
5727-M7H	Financial Analysis	MAPICS	6000		300	5280						.GH30-9004.CASS		1SE
+5727-M7J	Master Production Schedule Planning	MAPICS II	11500		575	10120						.GH30-9005.System/36		1SE
5727-M7K	Purchasing	MAPICS II	9600		480	8450						.GH30-9006.CASS		1SE
5727-M7L	Forecasting	MAPICS II	11000		550	9680						.GH30-9004.CASS		1SE
+5727-M7N	Inventory Management for Process	MAPICS II	20000		1000	17600						.GH30-0998.System/36		1SE
5727-M7N/01	Inv Mgt for Process - Upgr from 5727-M45	MAPICS II	17500			15400						.4081,9733		1SE
5727-M7N/02	Inv Mgt for Process - Upgr from 5727-M75	MAPICS II	15500			13640						.4082,9734		1SE
5727-M7N/03	Inv Mgt for Process - Upgr from 5727-M75	MAPICS II	11300			9944						.4083,9735		1SE
+5727-M7P	Location/Lot Management	MAPICS II	4200		210	3696						.GH30-9006.System/36		1SE
5727-M7X	Cross Application System Support	MAPICS II	2310		115	2035						.GH30-9004.System/36,S/36 PC		1SE
5727-M7X/01	Cross App - Upgrade from 5727-M4X	MAPICS II	946			832								1SE
5727-M71	Production Control and Costing	MAPICS II	8085		407	7115						.GH30-9006.CASS		1SE
5727-M72	Payroll	MAPICS II	4180		209	3345						.GH30-9004.CASS		1SE
5727-M73	Accounts Payable	MAPICS II	3080		154	2710						.GH30-9004.CASS		1SE
5727-M74	Accounts Receivable	MAPICS II	3080		154	2710						.GH30-9005.CASS		1SE
5727-M75	Inventory Management	MAPICS II	5500		275	4840						.GH30-9006.CASS		1SE
5727-M76	Product Data Management	MAPICS II	8470		423	7450						.GH30-9006.CASS		1SE
5727-M77	General Ledger	MAPICS II	3520		176	3095						.GH30-9004.CASS		1SE
5727-M78	Sales Analysis	MAPICS II	4015		203	3530						.GH30-9005.CASS		1SE
5727-M79	Order Entry and Invoicing	MAPICS II	5280		264	4645						.GH30-9004.CASS		1SE
5727-OS1	Office Management System	OMS/36	1950			1715						G580-0454 Upgrade to PS/36		1SX
5727-OS1/01	Upgrade to PS/36		1250			1100						Order 5727-WP3/01		1SA
5727-OS6	Office Management System		780			585						G580-0570 System/36 PC		0SH
5727-QU1	Query/36		950		64	835						G580-0454 System/36		1SA
5727-QU6	Query/36		380			285						G580-0570 System/36 PC		0SH
5727-RG1	RP6 II		800		44	700						GC21-9008 System/36		1SA

Number	Program Title	Short Name	OTC	ILC	MLC	DSO	DSI	DSM	MLP	MML	Mo	MoreInfo	Environment	TPLS
5727-RG6	RPG II		320			240						G580-0570	System/36 PC	05H
5727-SS1	System Support Program	SSP	4000		268	3520						GC21-9021	System/36	15A
5727-SS1/01	SSP Extended Feature		1150		68	1010						GC21-9021	4503,4502,4600	15A
5727-SS1/02	SSP Communications Feature		nc									GC21-9021	4504,4505,4601	N15A
5727-SS1/03	SSP Interactive Communications Feat	ICF	4300		383	3785						GC21-9021	4506,4507,4602	15A
5727-SS1/04	SSP 3270 Emulation Feature		2500		263	2200						GC21-9021	4508,4509,4603	15A
5727-SS1/05	SSP Multiple Session RJE	MSRJE	3600		217	3165						GC21-9021	4510,4511,4604	15A
5727-SS1/06	SSP Data Encryption Std for Banking	DES	200			175						GC21-9021	4512,4605	15A
5727-SS1/07	SSP Distributed Disk File Facility	DDFF	3000		171	2640						GC21-9021	4514,4515,4606	15A
5727-SS1/08	SSP Communications & System Mgt	C&SM	1000		53	875						GC21-9021	4536,4537,4662	15A
5727-SS1/09	SSP Distributed Data Management		2500		165	2200							4733,4734,6054	15A
5727-SS1/10	System Support Package		195										2874	15E
+5727-SS1/11	SSP Automatic PTF Distribution		285										4973	15E
+5727-SS1/12	SSP Additional Support		500		40	440							6101,4931,4932,4933	15A
+5727-SS1/13	SSP Tape Support		400		30	352							6102,4934,4935,4936	15A
+5727-SS1/14	SSP Display Station Pass-Through		500		40	440							6079,4687,4688,4689	15A
+5727-SS1/15	SSP (S360/62) 3278 Emulation on PC		2250		150	1980							6080,4880,4869,4870	15A
+5727-SS1/16	System Support Program - Office Enhancem		nc										6240	N15A
5727-SS6	System Support Program	SSP	995			746						G580-0570	System/36 PC	05H
5727-SS6/01	SSP Interactive Communications Feature	SSP	3225			2418						G580-0570	4772	05H
5727-SS6/02	SSP 3270 Devive Emulation	SSP	1100			825						G580-0570	4773	05H
5727-SS6/03	SSP Multiple Session Remote Job Entry	SSP	1440			1080						G580-0570	4774	05H
5727-SS6/04	SSP Communications and System Mgt	SSP	750			562						G580-0570	4775	05H
5727-SS6/05	SSP Distributed Data Management	SSP	1875			1406						G580-0570	4776	05H
5727-SS6/06	SSP Automatic PTF Distribution	SSP	155									G580-0570	4798	05H
+5727-SS6/07	SSP (S364) 3278 Emulation on PC		900			675							6091,6093,4873	15A
5727-TX1	Text Management System	TMS/36	1500			1320						G580-0454	System/36	15X
5727-TX1/01	TMS/36 Upgrade to DisplayWrite/36		550										Order 5727-WP1/01	15
5727-TX6	Text Management System		600			450						G580-0570	System/36 PC	05H
5727-UT1	Utilities		600		34	525						GC21-7895	System/36	15A
5727-UT6	Utilities		240			180						G580-0570	System/36 PC	05H
5727-WP1	DisplayWrite/36		2000		133	1760						G580-0454	System/36	15A
-5727-WP1/01	DW/36 Upgrade from TMS/36		550			484							4769,9682	15A
5727-WP2	DisplayWrite/36 English Dictionaries		120			105		105				G580-0454	DisplayWrite/36	15A
5727-WP2/01	DisplayWrite/36 French I Dictionary		120			105						G580-0454	4763,6064	15A
5727-WP2/02	DisplayWrite/36 French II (Canada) Dictn		120			105						G580-0454	4763,6064	15A
5727-WP2/03	DisplayWrite/36 Spanish Dictionary		120			105							4763,6064	15A
5727-WP2/04	DisplayWrite/36 Italian Dictionary		120			105							4763,6064	15A
5727-WP2/05	DisplayWrite/36 Danish Dictionary		120			105							4763,6064	15A
5727-WP2/06	DisplayWrite/36 German Dictionary		120			105							4763,6064	15A
5727-WP3	Personal Services/36		3000		203	2640						G580-0454	DisplayWrite/36	15A
-5727-WP3/01	Upgrade OMS/36 to PS/36		1250			1100							4770,9683	15A
5727-WP6	DisplayWrite/36		800			600						G580-0570	System/36 PC	05H
5727-WP7	DW/36 Language Dictionaries		nc									G580-0570	System/36 PC	N05H
5727-WP7/01	DW/36 English Dictionaries		90									G580-0570	4787	05H
5727-WP7/02	DW/36 French I Dictionary		90									G580-0570	4787	05H
5727-WP7/03	DW/36 French II Dictionary (Canada)		90									G580-0570	4787	05H
5727-WP7/04	DW/36 Spanish Dictionary		90									G580-0570	4787	05H
5727-WP7/05	DW/36 Italian Dictionary		90									G580-0570	4787	05H
5727-WP7/06	DW/36 Danish Dictionary		90									G580-0570	4787	05H

Number	Program Title	Short Name	OTC	ILC	MLC	DSO	DSI	DSM	MLP	MML	Mo	MoreInfo	Environment	TPLS
5727-WP7/07	DW/36 German Dictionary		90									6580-0570	4787	05H
+5727-WP8	Personal Services/36		2250			1687						6580-0570	System/36 PC	05H
5727-HS1	PC Support/36	Token-Ring	700	48	615							6580-0454	5727-LC1+S/36+AT	T1LM
5727-HS1/01	PC Support/36	Token-Ring Workstatn Feat	1500		100	1320						6580-0454	6248	T1LM
5727-HS6	PC Support/36	Token-Ring	280			210						6580-0570	5727-LC6+5364	TOLM
+5727-HS6/01	PC Support/36	Token-Ring Workstatn Feat	600			450						6580-0570	6181	TOLM
5727-XB2	General Ledger	BMAS	1980									.GB30-2733	System/36	15B
5727-XB3	Accounts Payable	BMAS	1980									.GB30-2744	System/36	15B
5727-XB4	Accounts Receivable	BMAS	1980									.GB30-2722	System/36	15B
5727-XB5	Payroll	BMAS	1980									.GB30-2755	System/36	15B
5727-XB6	Inventory Accounting	BMAS	1980									.GB30-2711	System/36	15B
5727-XB7	Billing	BMAS	1980									.GB30-2700	System/36	15B
5727-XR1	Work Station Search Facility	HSF/36	935									.6580-0212	System/36,S/36 PC	15B
5731-AA1	DOS Type-I Programs Running with DOS/VS		nc										DOS/VS	NOSS
+5732-001	System/88 Operating System 1.1		11800									SC34-0664	System/88	2SM
+5732-002	System/88 Network		7550									SC34-0677	System/88	2SM
+5732-003	Remote Job Entry Release 1		3540									SC34-0680	System/88	1SM
+5732-004	3270 Terminal Support Release 1		4370									SC34-0703	System/88	1SM
+5732-005	3270 Emulator Support Release 1		5900									SC34-0678	System/88	1SM
+5732-006	Transaction Processing Services Rel 1		6140									SC34-0670	System/88	1SM
+5732-007	Forms Management System Release 1		4370									SC34-0671	System/88	1SM
+5732-008	X.25 Networking Facility Release 1		5630									SC34-0677	System/88	1SM
+5732-009	X.29 Networking Facility Release 1		1770									SC34-0677	System/88	1SM
+5732-010	Synchronous Data Link Control Protocol	SDLC	3300									SC34-0677	System/88	1SM
+5732-011	COBOL Release 1		5900									SC34-0672	System/88	1SM
+5732-012	BASIC Release 1		5900									SC34-0681	System/88	1SM
+5732-013	PL/I Release 1		5900									SC34-0668	System/88	1SM
+5732-014	FORTRAN Release 1		5900									SC34-0685	System/88	1SM
+5732-015	PASCAL Release 1		5900									SC34-0689	System/88	1SM
+5732-016	Text Editor Release 1		2360									SC34-0715	System/88	1SM
+5732-017	Symbolic Debugging Aid Release 1		1660									SC34-0716	System/88	1SM
+5732-019	Personal Computer Terminal Support 1.0		100									SX34-0173	System/88+PC, XT	1SM
+5732-020	SNA-3270 Terminal Emulation Release 1		2200									SX34-0173	5732-010+5732-021	1SM
+5732-021	SNA Cluster Controller Release 1		8100									SX34-0173	SDLC Protocol Suppt	1SM
+5732-023	C Compiler and Subroutine Library Rel 1		7600										System/88	1SM
+5732-024	ORACLE tm Release 1		27000										System/88	1SM
+5732-025	Advanced Program-to-Program Communicatns		8000									GX34-1000	5732-028+5732-010	1SM
+5732-026	Communications & Systems Management		5000									GX34-1000	5732-027+5732-010	1SM
+5732-027	Systems Network Architecture Interface		3000									GX34-1000	System/88	1SM
+5732-028	Primary Systems Network Architecture		6500									GX34-1000	5732-027	1SM
+5732-029	Secondary Systems Network Architecture		5500									GX34-1000	5732-027	1SM
5734-CB4	COBOL Interactive Debug		1008		375							GC28-6454	TSO/CMS	15B
5734-CB4/01	COBOL Interactive Debug XT/370		1008		22								3003,3004	05C
5734-CP1	COBOL Prompter				38			28	7	11		GC28-6454	TSO	15K
5734-CP2	Assembler Prompter		1200		29							GC33-4038	TSO	15C
5734-CP3	FORTRAN Prompter		123		32							GC28-6884	5734-F02+TSO	15C
5734-D32	Consumer Goods System - Allocation	COGS	3980		181							.GH20-4410	05/MFT/MWT/VS1/VS2	1IC
5734-D33	Consumer Goods System - Forecasting	COGS	5320		242							.GH20-4409	05/MFT/MWT/VS1/VS2	1IC
5734-F01	FORTRAN - Code-and-Go		7200		323							GC28-6884	05/TSO/CMS	15C
5734-F02	FORTRAN IV (G1)				98			73	11	17		GC28-6884	05/TSO/CMS	15K

Number	Program Title	Short Name	OTC	ILC	MLC	DSO	DSI	DSM	MLP	MHL	Mo	MoreInfo	Environment	TPLS
5734-F03	FORTRAN IV (H Extended) Compiler				426			319	17	27			GC28-6884 05/VS/MFT/MVT/CMS	1SK
5734-F05	FORTRAN Interactive Debug		3600		256								GC26-3983 5734-F01,5748-F03	1SB
5734-F11	Check Processing Control System	CPCS			1375								GH20-1008 05/MFT/MVT/VS	21B
5734-F11/01	CPCS 3890 Feature				636								GH20-1970 6081,6091	21B
5734-F11/02	CPCS / Return Item Feature			8825	882								2101,4535	25B
5734-F31	Telecommunications Control System	TCS			7215								GH20-4324 05/VS	25B
5734-LM3	05 FORTRAN IV Library (Mod II)				131			98	17	27			GC28-6884 05,05/VS,VM	1SK
5734-LM4	PL/I Resident Library Release 5.1		192		64			48	7	11			GC33-0001 MVS,XA+DFP,VM,CICS	1SK
5734-LM4/01	PL/I Resident Library XT/370		192		4								3002,3007	05C
5734-LM5	PL/I Transient Library Release 5.1				37			27	7	11			GC33-0001 MVS,XA+DFP,CICS,VM	1SK
5734-LM5/01	PL/I Transient Library XT/370		192		4								3001,3006	05C
5734-M51	Requirements Planning		7620		265								.GH20-4618 05/MFT/MVT/VS	11C
5734-M51/01	Requirements Planning Connection Records		1085		36								.GH20-4618 4541,4543	11C
5734-PL1	PL/I Optimizing Compiler Release 5.1				296			222	39	62			GC33-0001 MVS,XA+DFP,VM,CICS	1SK
5734-PL2	PL/I Checkout Compiler				575			431	7	11			GC33-0003 05/VS/MFT/MVT/CMS	1SK
5734-PL3	PL/I Optimizing Compiler & Library 5.1				398			298	53	85			GC33-0001 MVS,XA+DFP,VM,CICS	1SK
5734-PL3/01	PL/I Optimizing Compiler & Library XT/370		1008		22								3000,3005	05C
5734-RC5	Visual Data Entry Online System/370	VIDEO/370	8100		308								GC28-8313 05/MFT/MVT/VS	15C
5734-RC5/01	VIDEO/370 CICS Feature 05		2400		92								GC28-8313 4516	15C
5734-SM1	Sort/Merge		1600		66								GC33-4022 05/MFT/MVT	15C
5734-UT1	Utilities - TSO		5200		154								GH20-9057 TSO	15C
5734-XA3	STAT - BASIC		1320		60								.GH20-1027 ITF(DOS/OS/TSO),VS	15C
5734-XMB	Business Analysis / BASIC		1890		69								.GH20-1175 DOS/VSE	15C
5734-XMC	Matrix Generator Report Writer for MPSX	MGRW	14100		641								.GH19-5012 05/MFT/MVT	11B
5734-XM3	Mathematics - Procedure Library		2815		128								.GH20-0854 05	15C
5734-XM5	Vehicle Scheduling Program - Extended	VSPX	6115		278								.GH19-2000 05/VS	11C
5734-XM8	MATH - BASIC		1320		60								.GH20-1128 CMS,VSPC	15C
5734-XP3	MINIPERT		3980		181								.GH20-4432 APLSV,AFL/CMS	11C
5734-XP4	Project Management System IV	PMS IV	1955		89								.GH20-0855 05/VS	01B
5734-XP4/01	Cost Processor Feature	PMS IV	1955		88								.GH20-0855 6016,6017,6200	01B
5734-XP4/02	Resource Allocation Processor Feature	PMS IV	7875		358								.GH20-0855 6020,6202	01B
5734-XP4/03	Enhanced Network Processor Feature	PMS IV	3650		166								.GH20-0855 6088,6089,6204	01B
5734-XS2	General Purpose Simulation System V	GPSS	1515		69								.GH20-0825 05,05/VS	11C
5734-XS9	Continuous System Modeling Program III	CSMP	2705		123								.GH19-7000 VS1/VS2/VM	11C
5734-XS9/01	CSMP III - Graphics Feature		9305		423								.GH19-7000 6065,6097	11C
5734-XX6	Information Management System Version 2	IMS/360	7752		646								GH20-0765 05/MFT/MVT/VS1/VS2	25C
5734-XX6/01	IMS/360 Data Communication Feature		8400		700					12			GH20-0765 6022	25C
5734-XX6/02	IMS/360 Interactive Query Facility Feat	IQF	4032		356								GH20-1074 6068	25C
5734-XX7	Customer Information Control System	CICS	9876		880								GH20-1028 05	25C
5735-CV1	RPG II Conversion Preprocessor		660										GH20-4532 S/3 to DOS/VS	01C
5735-D16	3650 Subsystem Program Prep Support II	SPPS II		1605	577		1200	433	28	45			GC30-9524 DOS/VSE,05/VS	1SK
5735-D61	3680 Store Systems Sales Application		304		8								48.GH20-5608 SPPS II & PSS Host	15A
5735-D62	3680 Store Systems Administration		504		13								48.GH20-5608 SPPS II & PSS HOST	15A
5735-H11	Pharmacy - Programmable Store System				48								48 GH20-5278 DOS/VS,05/VS	15H
5735-RC1	ACF/TCAM - Version 1		3948		352	2952		263	12	19	12		GC30-2050 05/VS/MS	25C
5735-RC1/01	ACF/TCAM - Multisystems Networking	MSNF/TCAM	14640		1305	10980		979	31	50	12		GC30-9500 6000,6517	25X
5735-RC2	ACF/VTAM Version 1			1520	457			990	343	55	88		GC27-0462 05/VS1,MVS	25K
5735-RC2/01	ACF/VTAM - Multisystems Networking	MSNF/VTAM		3080	1100			2310	825	163	260		GC38-0284 6009,2108,6509,2308	25K
5735-RC2/02	ACF/VTAM - Encrypt / Decrypt Feature			770	269			577	202	8	13		GC38-0285 6010,2109,6512,2309	15K
5735-RC3	ACF/TCAM - Version 2			2420	874			1815	655	91	145		GC30-3057 05/VS,MVS/XA	25X

Number	Program Title	Short Name	OTC	ILC	MLC	DSO	DSI	DSH	MLP	HML	Mo	MoreInfo	Environment	TPLS
5735-RC3/01	ACF/TCAM - Multisystems Networking	MSNF/TCAM		4070	1465		30531099	113	181			GC30-3057	6003,2111,6503,2311	25X
5735-RC5	VTAM Communications Network Applications	VM/VCONA		1100	402		825 302	135	215			GC27-0501	VM/SP+DOS/VSE,V51	25X
5735-XR1	DPFX DPCX Host Command Facility	HCF			128			96	36	58		GC27-0453	OS/V5, DOS/V5	15K
5735-XR2	Advanced Data Communication for Stores	ADCS	5455		248							.GH20-2188	DOS/VSE, OS/V5	15E
5735-XR3	DPCX/DOSF Host Prep				250			187	81	130		GC27-0572	VTAM/E,TCAM	15K
5735-XXA	ACF / System Support Programs Version 2	ACF/SSP			588	92	381	69	24	38		GC27-0657	MVS,XA+NCP-3	25K
5735-XXB	270x Emulation on 3705/20/25 Release 4	EP/3705/25		1365	256		1025	192	40	64		GC27-0657	MVS,XA,VSE,VM	25K
5735-XX1	ACF/Network Control Program Version 1	ACF/NCP		1305	234		979	176	35	56		GC30-9533	DOS/V5, DOS/VSE, OS/V5	25X
5735-XX3	ACF/NCP System Support Program	ACF/SSP			399	72	299	54	19	30		GC30-3058	DOS/VSE, OS/V5	25X
5735-XX6	Network Communications Control Facil V1	NCCF		440	156		330	117	48	77		GC27-0429	ACF/VTAM&E/TCAM/SSX	25K
5735-XX6/01	NCCF Terminal Access Facility Feature			220	88		165	66	16	26		GC27-0429	6002,2115,6502,2315	25K
5735-XX7	Network Terminal Option Release 4	NTO		660	206		495	155	12	19		GC38-0297	ACF/NCP 4.2	25K
5735-XX9	ACF/Network Control Program Version 2	ACF/NCP		1305	261		979	196	96	154		GC30-3071	OS/V5, DOS/VSE+3725	25K
5736-D31	Consumer Goods System - Allocation	COGS	3980		181							.GH20-0721	DOS, DOS/V5	11C
5736-D32	Consumer Goods System - Forecasting	COGS	5320		242							.GH20-0722	DOS, DOS/V5	11C
5736-LM4	PL/I Resident Library				58			43	7	11		GC33-0004	DOS, DOS/V5/VSE, CMS	15K
5736-LM5	PL/I Transient Library Release 6				34			25	7	11		GC33-0004	DOS, DOS/V5/VSE, CMS	15K
5736-N13	Consolidated Functions Ordinary Vers 2	CF0	10370		500							.GH20-5006	OS/DOS	11C
5736-N14	Alpha Search Inquiry System	ASIS	6375		303							.GH20-1188	CICS/OS/DOS/V5, CMS	15C
5736-PL1	PL/I Optimizing Compiler				251			188	39	62		GC33-0004	DOS/VSE, SSX/VSE, CMS	15K
5736-PL3	PL/I Optimizing Compiler & Library				344		258	53	85			GC33-0004	DOS/VSE, SSX/VSE, CMS	15K
5736-RC3	Visual Data Entry Online System/370	VIDEO/370	5600		212	4200	159	75	120			GC28-8313	DOS, DOS/V5	15C
5736-RC3/01	VIDEO/370 CICS Feature DOS		1800		68	1350		51	19	31		GC28-8313	4510,4514,6504,6500	05C
5736-RG1	RPG II		2800		100							GC21-5021	DOS, DOS/V5	15C
5736-RG1/01	RPG II Auto Report Feature		750		26							GC21-5052	4513,4515	15C
5736-T11	Fare Quote / Ticketing		124850		5675							.GH20-0873	ACP	01B
5736-T11/01	Fare Quote / Ticketing Tariff Maint Feat		249900		11360							.GH20-0873	6030,6031,6049	01B
5736-XM3	Vehicle Scheduling Program - Extended	VSPX	3190		145							.GH19-2000	DOS, DOS/V5	11C
5736-XM7	Mathematics - Subroutine Library	SL-MATH	3035		138							.GH12-5103	OS/V5, DOS/V5	15C
5736-XS3	General Purpose Simulation System V	GPSS	1515		69							.GH20-0826	DOS, DOS/V5	11C
5736-XX4	Data Base Organization and Maintenance	DBOMP	3620		132							.GH20-0771	DOS, DOS/V5	25C
5736-XX4/01	DBOMP CICS Feature		2675		97							.GH20-4446	4521,4524	25C
5736-XX4/02	DBOMP CICS / DASF Feature		3305		120							.GH20-4621	4522,4525	25C
5736-XX6	Customer Information Control System	CICS Entry	2820		235							GH20-1028	DOS	25C
5736-XX7	Customer Information Control System	CICS Std	7056		588							GH20-1028	DOS	25C
5740-AM6	Interactive Personnel System 2.2	INTERPERS	42130		1915							.GH20-5125	IMS/V5, CICS/OS/V5	25B
5740-AM6/01	Government Reporting / Tracking Feature	INTERPERS			297							.GH20-2151	6125,6126	25B
5740-AM6	Data Facility Device Support	DFDS			90			67	25	40		GC26-3954	OS/V51+5662-257	15K
5740-CB1	COBOL Compiler & Library				365			273	15	24		GC28-6470	OS/V5	15K
5740-CB1/01	COBOL OS/V5 Compiler & Library XT/370		912		20							5006,3008		05C
5740-CB2	COBOL 3650 Programmable Store System			1070	318			802	238	11	17	GC30-3059	OS/V5	15K
5740-DC1	Change Management Tracking	CMT	12180		554							.GH19-6028	OS/V5	15C
5740-DC2	Data Processing Accounting for IMS/V5	DPA	10670		485							.GH19-6028	OS/V5	11C
5740-DC4	Change Tracker	CT	4550		207							.GH19-6028	OS/V5	15C
5740-F11	Program Customizer / 3600 4700	PC/3600			2380							GH20-1587	OS/V5	11B
5740-F13	Deposit Processing				2245									05C
5740-F15	Direct S.M.I.F.T. Link	DSL	42130		1915							.GH12-5133	CICS/OS/V5	15X
5740-F16	Direct S.M.I.F.T. Link	DSL	49940		2270							.GH12-5133	IMS/V5	15X
5740-F51	3614 3624 Consumer Online Transactions	COLTS	22900		802							GH20-2019	OS/V5	15K
5740-LM1	COBOL Library				118			88	7	11		GC28-6470	OS/V5	11B

Number	Program Title	Short Name	OTC	ILC	HLC	DSO	DSI	DSH	HLP	HML	Mo	MoreInfo	Environment	TPLS
5740-LM1/01	COBOL OS/VS Library XT/370		288		6								3007,3009	05C
5740-LM5	EDX Macro Library/Host Version 4		5010		381								Series/1	15X
5740-LM6	EDX Macro Library/Host Version 5.2		5500		393							GC34-0099	Series/1	15L
5740-M41	Capacity Planning and Operations	CAPOSS-E	21070		823							.GH12-5119	OS/VS1,MVS	21B
5740-M52	APT Intermediate Contouring	APT-IC			713							GH20-1424	OS/VS	15E
5740-M52/01	APT Intermediate Contouring XT/370		1000		50								3011,3012	05C
5740-M53	APT Advanced Contouring Release 4	APT-AC			1185							GH20-1423	OS/VS,XT/370	15E
5740-M53/01	APT Advanced Contouring XT/370 Feat		1500		75								3013,3014	05C
5740-RG1	RPG II Compiler			663	221		495	165	13	21		GC33-6120	OS/VS	15K
5740-SM1	Data Facility Sort 1.8	DFSORT			247			185	19	30		GC33-4033	VS1, MVS,XA	15K
5740-UT1	Direct Access Storage Dump Restore	DASDR	2800		167							GH20-9116	OS/VS1,OS/VS2,OS/MFT	15C
5740-U11	Energy Management System	EMS	163650		7440						60	GH20-1496	OS/VS1	21B
5740-XC3/01	CIPREC Extended Function Package	CIPREC		1113	488							.GH19-1150	6186,6195	25B
5740-XC5	Development Management System / CICS	DMS/CICS	8380		533	6285			54	88		.GH20-0125	CICS/VS/OS	15K
5740-XC5/01	DMS/CICS Application Generation Feature		11410		533	8560		347	54	88		GH20-2195	4558,4560,6513,6577	15K
5740-XC6	MVS/SP JES2 Version 2.1.7	MVS/XA	12840	4280		93603210	6731077					GC28-1118	With 5665-XA2	25K
5740-XE1	MVS Systems Extensions	MVS/SE		1960			1470	114	182			GC28-0872	MVS	25K
5740-XM3	Mathematical Linear Programming Extended	MPX5	16170		735							.GH19-1090	OS/VS,MVS/XA,XT/370	11B
5740-XM3/01	Mixed Integer Programming Feature - MPSX	MIP	14100		641							.GH19-1090	6038,6217,6039	11B
5740-XM3/02	MPSX Including MIP XT/370 Feature		1250		62								3015,3016	05C
5740-XP1	Project Analysis and Control System	PROJACS	8070		367							.GH19-1055	OS/VS,MVS/XA	11B
5740-XP1/01	Resource Allocation Processor Feature	PROJACS	3980		181							.GH19-1055	6003,6219	11B
5740-XP1/02	Cost Evaluation Processor Feature	PROJACS	1980		90							.GH19-1055	6006,6222	11B
5740-XP1/03	Network Preparation Processor Feature	PROJACS	1980		90							.GH19-1055	6009,6225	11B
5740-XRB	Hierarchical Storage Manager	HSM		579			434	129	206			GH35-0007	Succeeded by DFHSM	15K
5740-XR1	Storage & Information Retrieval System	STAIRS/VS	28160		1280							.GH12-5114	OS/VS,CICS/VS,IMS/VS	25B
5740-XR6	Virtual Storage Personal Computing	VSPC			1520		1020	220	352			GH20-9070	MVS	15K
5740-XR8	Network Job Entry for JES2	NJE			807		605	96	154			GC23-0010	MVS	15K
5740-XT4	Teleprocessing Network Simulator Ver 1	TPNS			1840							GH20-1907	OS/VS	11B
5740-XT8	Structured Programming Facility	SPF	18380		630							GH20-1974	OS/VS2	11X
5740-XT9	Operations Planning & Control	OPC	58390		1745	26950	1225					.GH19-6120	OS/VS	21L
5740-XXD	Telecommunications Control System	TCF-AF	16500		1470							GH20-1735	OS/VS	25C
5740-XXF	Data Dictionary - DB/DC				1110		832	115	184			GH20-9104	IMS/VS,CICS/OS/VS	25K
5740-XXF/01	Data Dictionary Report and File Generatr	RFG	15000		535	11250		401	11	17			6576	15K
5740-XXH	Resource Access Control Facility 1.7	RACF			841			630	43	69		GC28-0722	MVS	25K
5740-XXI	Customer Information Control System 1.7	CICS		5730	1910		42901430	256	280			GC33-0155	MVS,XA	25K
5740-XX1/01	CICS/OS/VS Faster Language Facility Feat			343	128							GH20-1502	6022,6023	05C
5740-XX2	IMS/VS Data Base System 1.3	IMS/VS/DB			2593		1944	240	384			GH20-1260	MVS,VS1	05K
5740-XX2/01	IMS/VS Data Base Product				1800		1350	192	307			GH20-9069	4538	05K
5740-XX2/02	IMS/VS Data Communications Feature	IMS/VS/DC			2250		1687	192	307			GH20-1260	6172,6566	05K
5740-XX2/03	IMS/VS Data Base Surveyor Utility Feat				120		90	13	21			GH20-9069	6199,6569	05K
5740-XX2/04	IMS/VS Data Base Recovery Control Feat	DBRC			558		418	38	61			GH35-0010	6425,6560	15K
5740-XX2/05	IMS/VS Logging Feature				235		176	23	37				6423,6557	05K
5740-XX7	Generalized Information System - VS	GIS/VS			1340		1005	92	147			GH20-9035	OS/VS	25K
5740-XX7/01	GIS/VS Advanced Query Feature				419		314	28	45			GH20-9035	6012	25K
5740-XX7/02	GIS/VS Update & Create Feature				885		663	58	93			GH20-9035	6015	25K
5740-XX7/03	GIS/VS Modify Feature				207		155	14	22			GH20-9035	6018	25K
5740-XX8	Planning Control & Decision Evaluation	PLANCODE/I	21140		961							.GH19-1103	CICS/IMS VM T50	25B
5740-XX9	Planning Control & Decision Evaluation	PLANCODE/S	17310		787							.GH19-1103	OS/VS	21B
5740-XY8	Customer Information Facility	CIF/VS	63880		2880							GH20-2018	IMS/VS	25X

Number	Program Title	Short Name	OTC	ILC	MLC	DSO	DSI	DSM	MLP	MML	Mo	MoreInfo	Environment	TPLS
5740-XYC	Customer Information Facility	CIF/VS	56780		2735								.GH20-2018 CICS/OS/VS	25X
5740-XYE	Distributed Workstation Support	IDMS			174			130	36	58			GC24-5193 OS/VS1	15K
5740-XYF	Screen Definition Facility	SDF	7675		349	5760		262	50	80			.GH19-6087 OS/VS,MVS/XA or CICS.	15K
5740-XYG	Mass Storage System Extensions 3850	MSSE			327			245	54	86			GH35-0034 OS/VS,MVS/XA	15K
5740-XYK	Distributed Office Support - Remote Ver1	DISOSS	3300		150								.GH12-5124 D0SF	25B
5740-XYK/01	Direct Document Viewing Facility	DISOSS	1100		50								.GH12-5124 6119,6239	25B
5740-XYL	Advanced Text Management System III	ATMS III	25410		1155								.GH20-2404 CICS/OS/VS	25B
5740-XYL/01	ATMS III Formatter		11990		545								.GH20-2404 6137,6237	25B
5740-XYN	MVS/SP - JES3 1.1				2150			1612	117	187			GC28-1395 5752-VS2	25K
5740-XYN/01	MVS/SP - JES3 1.2 or 1.3				230			172	400	640			GC28-1395 6144,6524	25K
5740-XYN/02	MVS/SP/JES3 1.3.5	JES3			2380			1784	517	827			GC28-1025 4524,9524	05K
5740-XYR	IBM DATABASE 2 Release 2	DB2		16050	2675		120362006	374	598				GC26-4073 MVS,XA+DFP+ISPF	25K
5740-XYs	MVS/SP - JES2 1.1				2150			1612	117	187			GC28-1395 5752-VS2	25K
5740-XYs/02	MVS/SP/JES2 1.3.5 and 1.3.6	JES2			2170			1627	240	384			GC28-1025 4525,6143,9525	25K
5740-XYX	COPICS Online Routing		13560		411								.GH12-5138 OS/VS,IMS,CICS,DL/I	25E
5740-XY3	ACF Telecommunications Control System	TCS-ACF	2640		235								GH20-2192 OS/VS	15C
5740-XY3/01	ACF-TCS Networking Feature				353								GH20-2156 6090	25C
5740-XY4	Resource Measurement Facility Version 2	RMF			406			304	17	27			GC28-0921 MVS	15K
5740-XY5	Cryptographic Programmed Facility		12200		436	9150		327	33	53			GC28-0942 MVS	15K
5740-XY6	Cryptographic Unit Support		11000		390	8250		292	33	53			GC28-1015 OS/VS,MVS/XA	15K
5740-XY8	Data Base Design Aid Version 2	DBDA			8620								.GH20-1626 OS/VS	11C
5740-XY9	Distributed Office Support / 370 Ver 1	DISOSS	31900		1450								.GH12-5124 CICS/OS/VS,IMS/VS	25B
5740-XY9/01	Direct Document Viewing Facility	DISOSS	7765		353								.GH12-5124 6107,6230	25B
5740-XY9/02	STAIRS Input Formatter	DISOSS	5760		262								.GH12-5124 6109,6232	25B
5740-XY9/03	Host Print Facility	DISOSS	3870		176								.GH12-5124 6113,6234	25B
5742-017	Operating System / Virtual Storage 2	SVS			nc								GC28-0601	N05C
5743-SM1	Sort/Merge		800		43								GC33-4020 D0S	15C
5744-AG1	1410/7010 Integrated Emulator		nc										GC33-2019 OS/VS	N05C
5744-AH1	1401/1440/1460 Integrated Emulator		nc										GC33-2018 OS/VS	N05C
5744-AJ1	7070/7074 Emulator		nc										GC27-6948 OS/VS	N05C
5744-AK1	7040/7044 Emulator		nc										GC27-6948 OS/VS	N05C
5744-AL1	7080 Emulator		nc										GC27-6952 OS/VS	N05C
5744-AM1	7090/7094 Emulator		nc										GC27-6983 OS/VS	N05C
5744-AN1	3704/5 Emulator Support Package	EP/VS	nc										GC30-3002 OS/VS,VM	N05J
5744-AS1	D0S Emulator		nc										GC33-2017 OS/VS	N05C
5744-BJ1	Diskette Copy Program		nc										GC24-5109 OS/VS1	N05C
5744-BK1	Distributed Intelligence System/7 - 370		nc										GC34-0057 OS/VS	N05C
5744-BL1	Diskette Copy Program		nc										GC24-5109 OS/VS2	N05C
5744-BQ1	Retail Store System Host Support		nc										GC30-3022 OS/VS1	N05S
5744-BQ2	Subsystem Program Preparation		nc										GC30-9513 OS/VS	N05S
5744-BQ3	3650 Retail Store System		nc										GC30-9512 OS/VS	N05S
5744-BR1	3660 Supermarket System - Host Support		nc										GC30-3042 OS/VS	N05S
5744-BR2	3660 Supermarket Store System		nc										GC30-9504 OS/VS	N05S
5744-BZ3	3790 3770 Host Support		nc										GC22-9071 OS/VS	N05X
5744-CA3	3600 Host Support Finance Communication		nc										GC27-0006 OS/VS	N05S
5744-CG1	Batch Transfer Program	BTP	nc										.GC33-5901 OS/VS1	N05C
5744-CG2	Batch Transfer Program	BTP	nc										GC33-5901 MVS	N05C
5744-CH1	Batch Transfer Program	BTP	nc										GC33-5901 SVS	N05C
5744-CJ1	System Support Services	SSS	nc										GC30-3022 SVS	N05S
5744-CK2	Vector Processing Subsystem	VPSS	nc										GC24-5182 OS/VS+3838	N05S



Number	Program Title	Short Name	OTC	ILC	MLC	DSO	DSI	DSM	HLP	MML	Mo	MoreInfo	Environment	TPLS
5744-CR1	3630 Plant Communication Host Services		nc									GA24-3721	OS/VS	NOSX
5744-DA1	3650 PSS SPPS II		nc									GC30-9535	OS/VS	NOSJ
5744-D16	3650 3680 Programmable Store System Host PSS		nc									GC30-3060	Replaced by 5668-912	NOSJ
5745-030	DOS / Virtual Storage Extended	DOS/VSE	nc									GC33-6108	S/370, 4300, 303x, 3083	NOSJ
5746-AM1	Interactive Personnel System 2.2	INTERPERS	30800		1400							.GH20-2151	CICS/DOS/VS	25B
5746-AM1/01	Government Reporting & Benefits Tracking	INTERPERS	5760	1275	262							.GH20-2151	6080, 4581, 4601	25B
5746-AM2	VSE/VSAM				82			74	24	38		GC24-5143	DOS/VSE, VM/SP	15K
5746-AM2/01	VSE VSAM Space Management for SAM				44			40	9	14		GC24-5143	6074, 6507	15K
5746-AM2/02	VSE VSAM Fast Backup Restore Feature				33			30	7	11		GC24-5190	6091, 6506	15K
5746-AM3	3340 Data Import from System/3		1320									GC33-6062	DOS/VSE VSAM	05C
5746-AM4	Fast Copy Data-set Program		499							5	8	GC33-6081	DOS/VSE	15K
5746-AM5	3270 Bisynd Pass-Through		4755		217							.GH20-2403	DOS/VSE+CICS/VS	15X
5746-CB1	COBOL Compiler & Library				184			138	15	24		GC28-6473	DOS/VS	15K
5746-CB2	COBOL 3650 Programmable Store System				855	285	639	213	11	17		GC30-3059	DOS/VS	15K
5746-DC1	3890 Document Processor Support		2180		122							GC31-0001	DOS/VSE	15B
5746-F11	3600 4700 Program Customizer	PC/3600			1315							GH20-1587	DOS/VSE	11B
5746-F12	Electronic Payment Systems	DOSCHECK			1515							GH20-1939	DOS/VS	21B
5746-F14	Direct S.W.I.F.T. Link	DSL	34430		1565							.GH12-2513	CICS/DOS/VS, DOS/VSE	15B
5746-F52	General Ledger & Postings Release 3	IFS-1	19750		898							.GH12-5120	CICS+DL/I+PL/I	15E
5746-F53	P&L and Balance Sheet Release 3	IFS-2	4375		199							.GH12-5120	CICS+DL/I+PL/I	15E
5746-F54	Open Item Accounting A/R A/P Rel 3	IFS-3	8775		399							.GH12-5120	CICS+DL/I+PL/I	15E
5746-F55	Payment Processing A/P Release 3	IFS-4	6600		300							.GH12-5120	CICS+DL/I+PL/I	15E
5746-F57	3614 3624 Consumer Online Transactions	COLTS	21150		741							GH20-2019	DOS/VSE	11B
5746-F60	Commercial Bank System Base Support	CBAS Base			508							.GH20-2497	DOS/VSE and CIF/VS	15X
5746-F61	Commercial Bank Demand Deposit Accounting	CBAS DDA			418							.GH20-2497	DOS/VSE+CBAS Base	15X
5746-F62	Commercial Bank Savings Accounting	CBAS SAV			378							.GH20-2497	DOS/VSE+CBAS Base	15X
5746-F63	Commercial Bank Time Deposit Certificate	CBAS TCD			292							.GH20-2497	DOS/VSE+CBAS Base	15X
5746-F64	Commercial Bank General Ledger Accounting	CBAS GCL			269							.GH20-2497	DOS/VSE+CBAS Base	15X
5746-F65	Commercial Bank System Revolving Credit	CBAS RVC			212							.GH20-2497	DOS/VSE+CBAS Base	15X
5746-F66	Commercial Bank Club Accounting	CBAS CLB			618	238						.GH20-2497	DOS/VSE+CBAS Base	15X
5746-F67	Commercial Bank Installment Loan	CBAS ILN			979	374						.GH20-2497	DOS/VSE+CBAS Base	15X
5746-F68	Commercial Bank Commercial Loan Acctg	CBAS CML			1615	618						.GH20-2497	DOS/VSE+CBAS Base	15X
5746-LM3	FORTRAN IV Library Option 1				40			30	7	11		GC28-6882	DOS	15K
5746-LM4	COBOL Library Only				33			24	7	11		GC28-6473	DOS/VS	15K
5746-M41	Capacity Planning and Operations	CAPDSS-E	17310		787							.GH12-5119	DOS/VS	21B
5746-N11	Life Inquiry / Data Entry	LI/DE	25220		1215							.GH20-1499	CICS/DOS/OS/VS/IMS	11C
5746-RC3	ACF/VTAM	VTAM			197			177	58	93		GC27-0462	DOS/VSE/AF	25K
5746-RC3/01	ACF/VTAM - Multisystem Networking Feat	VTAM			374			337	174	278		GC27-0462	6059, 6500	25K
5746-RC5	Basic Telecommunications Access Method	BTAM-ES			44			40	7	11		GC38-0292	DOS/VSE	15K
5746-RC9	Remote Job Entry Workstation	RJE	3780		130							.GH20-2199	VSE To, VM, OS/VS	15B
5746-RG1	RPQ II Compiler				165			120	7	11		GC33-6120	DOS/VSE, SSX/VSE	11K
5746-SA1	Interactive Problem Control	IPCS	880		40	660		26	6	11		GC34-2017	DOS/VSE	15K
5746-SM1	Sort/Merge		1600		72							GC33-4030	DOS/VS	15C
5746-SM2	Sort/Merge Version 2				108			81	14	22		GC33-4043	DOS/VS, VSE, VM/SP	15K
5746-SU1	1401/1440/1460 Emulator		3400		159	2550		115	6	10		GC33-0011	DOS/VS, DOS/VSE	15X
5746-TS1	Interactive Computing & Control Facility	ICCF			161			144	28	45		GC33-6066	DOS/VSE+VTAM, BTAM-ES	15K
5746-UT3	Data Interfile Transfer, Testing & Opern	DIIT0	968		44	748		34	5	8		.GH19-6072	DOS/VSE	15K
5746-XC3/01	CIPREC Extended Function Package				948	362						.GH19-1150	6118, 6119	25B
5746-XC4	Development Management System / CICS	DMS/CICS	4730		330	3545		164	54	88		.GH20-2195	CICS/VS/DOS	15K
5746-XC4/01	DMS/CICS Application Generation Feature		7040		330	5280		246	51	82		.GH20-2195	6082, 4538, 6541, 6501	15K

Number	Program Title	Short Name	OTC	ILC	MLC	DSO	DSI	DSH	MLP	MML	Mo	MoreInfo	Environment	TPLS
5746-XC5	Operator Communications Control Facility	OCCF	5800		155	5220		139	13	21		GC33-6113	VSE/AF Version 2	15K
5746-XE2	Advanced Functions		2472		219	1836		164	60	96		GC33-6106	DOS/V5	15C
5746-XE3	VSE/POWER Version 1	POWER	1800		68	1350		61	17	27		GH12-5131	DOS/VSE	15K
5746-XE3/01	VSE/POWER Remote Job Entry Version 2	POWER/RJE	3100		119	2325		107	23	37		GH12-5131	4564,4562,6502,6534	15K
5746-XE3/02	VSE/POWER Shared Spooling Version 1	POWER	1200		46	1080		42	9	14		GH12-5131	4565,4563,6503,6535	15K
5746-XE6	Job Entry Program	JEP			258			193	38	61		GH12-5129	DOS/VSE	15K
5746-XE7	Access Control Logging and Reporting	VSE/ACLR	2360		63	2125		57	24	38		GH12-5130	DOS/VSE,SSX/VSE	15K
5746-XE8	VSE/Advanced Functions	VSE/AF			299			270	61	98		GC33-6108	DOS/VSE	15K
5746-XM2	Mathematical Linear Programming Extended	MPSX	14100		641							.GH19-1090	DOS/V5	11B
5746-XM2/01	Mixed Integer Programming for MPSX	MIP	12120		551							.GH19-1090	6038,6143	11B
5746-XP1	Project Analysis and Control System	PROJACS	8070		367							.GH19-1055	DOS/V5	11B
5746-XP1/01	Resource Allocation Processor Feature	PROJACS	3980		181							.GH19-1055	6004,6148	11B
5746-XP1/02	Cost Evaluation Processor Feature	PROJACS	1980		90							.GH19-1055	6009,6153	11B
5746-XP1/03	Network Preparation Processor Feature	PROJACS	1980		90							.GH19-1055	6014,6158	11B
5746-XR4	Storage & Information Retrieval System	STAIRS/VS	22990		1045							.GH20-1832	CICS/DOS/V5	25B
5746-XXA	Planning Control & Decision Evaluation	PLANCODE	17310		787							.GH19-1103	DOS/V5	21B
5746-XXC	Data Dictionary - DB/DC				491			367	91	146		.GH20-9193	DOS/V5,DL/I,CICS/V5	25K
5746-XXM	Communication Oriented Message System	CORMES	11520		524							.GH12-5127	DOS/V5	25B
5746-XXQ	Data Base Design Aid Version 2	DBDA	6460		323							.GH20-1626	DOS/V5	11C
5746-XXS	Customer Information Facility	CIF/V5	38950		1500							.GH20-2018	CICS/DOS/V5	25X
5746-XXT	Screen Definition Facility	SDF	5345		243	3980		165	44	70		.GH19-6087	VSE or CICS/DOS/V5	15K
5746-XXU	Advanced Text Management System III	ATMS III	12470		567							.GH20-2404	CICS/DOS/V5	25B
5746-XXU/01	ATMS III Formatter		11990		545							.GH20-2404	6104,6168,6105	25B
5746-XXV	Entry Level Interactive Application Syst	ELIAS-I	5190		236	3915		162	13	21		.GH19-6218	DOS/VSE,CICS/V5,DL/I	15K
5746-XXI	Data Language / I	DL/I			459			344	149	238		.GH20-1246	VSE,SSX	25K
5746-XX3	Customer Information Control System	CICS/V5			686			617	149	238		GC33-0155	DOS/VSE	25K
5746-XX3/01	CICS/DOS/V5 Faster Language Facility				120							.GH20-1502	6019	25C
5746-XX7	Data Language / I Entry	DL/I ENTRY	10290		468	7740		320	22	35		.GH12-5115	DOS/V5	25X
5746-XX9	Planning Control & Decision Evaluation	PLANCODE/I	21140		961							.GH19-1103	CICS/DOS/V5	25B
5746-XXI	COPICS Online Routing		13560		411							.GB21-2650	DOS/VSE,OS/V5,DL/I	15E
5747-AG1	EP/V5 - 3704 / 3705 Emulator Support		nc									GC30-3008	DOS/V5,DOS/VSE	N05J
5747-BJ1	3650 Retail Store System		nc									GC30-3023	DOS/V5	N05S
5747-BJ2	Subsystem Program Preparation		nc									GC30-9515	DOS/V5	N05S
5747-BJ3	3650 Retail Store System		nc									GC30-9514	DOS/V5	N05N
5747-BK1	Supermarket System Host		nc									GC30-3025	DOS/V5	N05S
5747-BK2	3660 Supermarket Store System		nc									GH30-3025	DOS/V5	N05S
5747-BQ1	DPCX 3790 3770 Host Support		nc									GC22-9071	DOS/V5	N05J
5747-BR1	3600 Host Support		nc									GC27-0006	VSE,SSX	N05S
5747-BN1	Batch Transfer Program	BTP	nc									GC33-5900	DOS/V5	N05C
5747-CC1	3800 Printing Subsystem Support		nc									GC26-3913	DOS/VSE	N05S
5747-CC3	1400 Emulator Programs		nc									GC33-5384	DOS/V5	N05C
5747-CC6	Subsystem Support Services	SSS	nc									GC30-3022	DOS/V5,OS/V5,SSX	N05N
5747-CF1	VTAM SCP ACF/VTAM	ACF/VTAM	nc									GC27-0459	DOS/VSE	N05J
5747-CG1	BTAM SCP for BTAM-ES		nc										DOS/VSE	N05J
5747-CG2	VTAM SCP for ACF/VTAME		nc									GC27-0440	DOS/VSE	N05J
5747-CH1	Network Control Program - SCP	NCP/SSP	nc									GC30-9531	3704,3705	N05J
5747-CH1/01	Network Control Program EP/V5 Feature	NCP/SSP	nc									GC30-9531	6004	N05J
5747-CH2	EP/V5 Feature		nc										DOS/VSE	N05N
5747-CJ1	3630 Plant Communication System Host		nc									GA24-3721	DOS/V5	N05X
5747-CJ2	3650 Programmable Store System SPPS		nc									GC30-9535	DOS/V5	N05J

Number	Program Title	Short Name	QTC	ILC	MLC	DSO	DSI	DSM	MLP	MML	Mo	MoreInfo	Environment	TPLS
5747-DS1	Device Support Facilities for Standalone	ICKDSF	nc									GC26-3946	3340,3344,3350,3380	N055
5747-DS2	Device Support Facilities for VSE 1.8	ICKDSF	nc									GC26-3946	3340,3344,3350,3380	N055
5747-D16	3650 3680 Programmable Store System Hos	PSS	nc									GC30-9536	Replaced by 5668-912	N05J
5747-SA1	231x Emulator on FBA Devices		nc										D05/VSE	N05J
5748-AP1	A Programming Language - APL	VSAPL			386			289	41	66		GH20-9064	Replaced by 5668-899	15K
5748-AP1/01	VS APL for XT/370, AT/370		735		49								3011,3012	05Z
5748-D14	3650 Point-of-Sale Retail Environment	PSS	5695		149						48	GC30-3056	D05/VS,05/VS	15A
5748-D15	3650 Point-of-Sale Report Customizer	PSS	603		16						48	GC30-3054	SPPS II & PSS Host	15A
5748-D21	3650 Supermarket Environment	PSS	2770		72						48	GC30-3055	SPPS II & PSS Host	15A
5748-D22	3650 Store Data Management	PSS	1160		29						48	GH20-2150	SPPS II & PSS Host	15A
5748-F02	FORTRAN - VSPC				585			438	47	75		GH20-9061	D05/VS,05/VS1,MVS	15K
5748-F03	FORTRAN VS Compiler & Library 4.1			747	249			558	186	17	27	GC26-4114	MVS,XA,VM,VSE,VM/PC	15K
5748-F03/01	FORTRAN VS Compiler & Library XT/370		816		18								3000,3006	05C
5748-F13	Check Reports	EPSS	16500		552							GH20-2136	05/VS,D05/VS	11B
5748-F53	Check Processing Executive / 3694	CHX/3694	2100		66							GH20-2444	5748-F54	15B
5748-F54	Check Processing Executive / VS	CHX/VS			346							GH20-2444	05/VS,D05/VSE VTAM	15B
5748-F55	3600 4700 Administrative Applications		1368		41							GH20-2414	IMS/VS,CICS/VS	15B
5748-F56	3694 Application Macro Expansions		2600		93	1950		70	19	30		GC31-0012	05/VS,D05/VSE	15K
5748-LM3	FORTRAN VS Library 4.1			219	73			162	54	7	11	GC26-3983	05/VS,VSE,VM,SSX	15K
5748-LM3/01	FORTRAN VS Library XT/370		192		4								3001,3007	05C
5748-MS1	Interactive Productivity Facility 5.3	IPF			50			36	6	10		GH20-5304	5664-167,5748-SA1	15K
5748-MS1/01	IPF XT/370		196		4								3004,3010	05K
5748-RC1	Pass-Through Facility	PVM	3000		185	2700		139	90	144		GC24-5206	VM/SP,VM/BSEP,VM/SE	15K
5748-SA1	Interactive Problem Control System	IPCS	1100		55	787		36	6	10		GC34-2019	VM/CMS	15K
5748-T11/01	ACP / ACF Transactions	ACP/ACF			3060							GH20-2140	6041	25E
5748-T12	ACP Transaction Processing Facil 2.2	TPF2/ACF2		3210012300								GH20-6200		25E
5748-T12/01	ACP Advanced Communication Function	TPF2/ACF2		8025	3075							GH20-6200	2111,6081	25E
5748-T12/02	ACP TPF2 / High Performance Option	TPF2/HP0		21000	7000							GH20-6200	2112,6080	25E
5748-XC2	Display Management System / 3790	DMS/3790	7300		415							GH20-2002	D05/VS,05/VS	15C
5748-XC2/01	DMS/3790 Interface Monitor	CIM	4840		259							GH20-2002	4538	15C
5748-XC3	Display Management System/3770		6460		323							GH20-1626	D05/VS	11C
5748-XC4	DPCX Development Management System	DMS/DPCX	25730		939	19290		703	94	151		GH20-2423	T50,CICS,CMS	15K
5748-XE1	Virtual Machine System Extensions VM/SE	SEPP			1435			1076	197	315		GC20-1827	VM/CMS	25X
5748-XE4	Directory Maintenance	DIRMAINT			112			84	30	48		GC20-1836	VM/SP/CMS	15K
5748-XE6	File Transfer Program Version 1	FTP	1415		55	1060		40	5	8		GH12-5129	Replaced by Version2	15K
5748-XP1	Remote Spooling Communications Subsys V1	RSCS			111			83	38	61		GH24-5004	VM/SP	15K
5748-XT3	Structured Programming Facility / CMS		13440		448							GH20-2197	VM/CMS,CMS	15X
5748-XXB	Display Management System / CMS	DMS/CMS			40			27	9	14		GC24-5197	VM/SP	15K
5748-XXB/01	DMS/CMS XT/370		144		4								3005,3009	05C
5748-XXC	Interactive File Sharing	IFS			52			39	16	26		GC24-5195	VM/CMS	15K
5748-XXE	Document Library Facility	DLF		480	160							GH20-9163	D05/VSE,MVS,VM	15E
5748-XXH	Graphic Data Display Manager	GDDM/Base		767	159		575	120	36	58		GC33-0100	VM,CICS,IMS,MVS	15K
5748-XXH/01	GDDM Presentation Graphics Feature	GDDM/PGF		767	162		575	121	36	58		GC33-0100	6049,2102,6500,2302	15K
5748-XXH/02	GDDM Interactive Map Definition	GDDM/IND		767	214		575	161	22	35		GC33-0100	6084,2101,6503,2301	15K
5748-XXJ	SQL / Data System - Relational Structure	SQL/DS 3.5			464			347	144	230		GH24-5012	D05/VSE,SSX/VSE,VM	25K
5748-XXK	Entry Level Interactive Application Syst	ELIAS-I/VM	8005		364	5960		271	28	46		GH19-6157	VM/CMS,CICS/VS,DL/I	15K
5748-XX1	BASIC/VS				549			411	19	30		GC28-8302	See 5665-948,5668996	15K
5748-XX3	Chained File DL/I Bridge		14740		576							GH12-5116	D05/VS,05/VS	15B
5748-XX6	Interactive Instructional System	IIS			582							GH20-1895	D05/VS,05/VS,VM	25X
5748-XX8	Basic System Extensions VM/BSE	BSEPP			181			135	44	70		GC20-1828	VM	25X

Number	Program Title	Short Name	OTC	ILC	MLC	DSO	DSI	DSM	MLP	MHL	Mo	MoreInfo	Environment	TPLS
5748-XX9	Document Composition Facility	DCF		972	324								VM,VSE,MVS	1SE
5748-XX9/01	DCF Foreground - CMS TSO ATMS III	SCRIPT/VS		180	60							GH20-9158	6043,2107	1SE
5748-XX9/02	Document Composition Facility XT/370	Script	864		19								3003,3008	OSC
5749-010	Virtual Machine / 370	VM	nc									GC20-1800	S/370,4300,303x,308x	NOSJ
5750-AAK	VM/SP System Offering 4.0	SIPO/E	varies									GC20-1890	VM/SP	VOSE
5750-AAL	Business Professional System	BPS	varies									G520-0007	VM/SP	V
5750-AAM	MVS/SP System IPO		varies									GC20-1870	Replaced by CBIPO	V X
5750-AAP	VSE/System IPO/E		varies									GC20-2003	VSE/System Package	V
5750-AA8	System IPO for OS/VSI Release 7		varies									GC20-1861	S/370	V
5750-BA1	DPPX System IPO		varies									GC20-1883	DPPX	V X
5750-BA2	DPPX Application IPO		varies									GH20-5307	DPPX	V
-5750-ESE	Engineering/Scientific Support Sys-Entry	E/S3-Entry	varies									0520-0118	Replaced by VMES3	VOST
5750-ES1	VM/SP System Base Rel 2	IPO	varies									0520-0118	VM	VOSM
5750-ES1/01	VM/SP Entry Engineering/Scientific Enhanc		varies	569	9000									V2SM
+5750-EXT	VM/Remote System Programming	VM/RSP	varies										VM	VOSE
5750-VME	CADAM (R) Express	IPO	varies									GH20-6487	VM,5080 or 3250	V1SE
5751-CS1	MVS Custom-Built Installation Process Of	CBIPO	varies									GC23-0127	MVS	V S
5751-CS2	MVS CBIPO Model Inst Related Inst Materl	CBIPO	varies									GC23-0127	5751-CS1	V S
5751-CS3	MVS Introductory Base Offering	CBIPO	varies									GC23-0127	5751-CS1	V S
5751-LM2	System Test/4381XA		nc										XA	NOSJ
5752-VS2	Operating System / Multiple Virtual Stor	MVS 3.8	nc									GC28-1012	S/370,4300,303x,308x	NOSJ
5760-AS1	DPPX Assembler		2500	88	1955		75	18	29			GC27-0411	DPPX	1SK
5760-CB1	DPPX COBOL Compiler		4200	169	3570		143	27	43			GC26-3914	DPPX	1SK
5760-ED1	DPPX/3644 Parameter Table Generator	GEN3644	312	27	240		21	7	11			GC24-5179	DPPX	1SX
5760-F01	DPPX FORTRAN Compiler		3400	135	2890		115	27	43			GC27-0417	DPPX	1SX
5760-LB1	DPPX COBOL Runtime Library		750	28	637		24	6	10			GC26-3914	DPPX	1SK
5760-LM1	DPPX FORTRAN Library		1700	65	1445		55	16	26			GC27-0417	DPPX	1SX
5760-LM2	DPPX PL/I Library		1890	75	1605		64	10	16			GH19-6081	DPPX	1SK
5760-PL1	DPPX PL/I Compiler		10300	409	8755		347	41	66			GH19-6081	DPPX	1SK
5760-RC1	DPPX 3270 Data Stream Compatibility		750	28	637		24	38	61			GC27-0400	DPPX	1SK
5760-SM1	DPPX Sort/Merge		1000	39	850		53	16	26			GC26-3931	DPPX	1SK
5760-TD1	DPPX Data Base Transaction Management		4400	173	3740		147	20	32			GC26-3915	DPPX	1SK
5760-XC1	DPPX Remote Job Entry Workstation		1175	45	998		38	20	32			GC30-3053	DPPX to OS,VSE,VM	1SK
5760-XC2	DPPX Development Management System Defn	DMS/DPPX	3175	185	3025		138	67	108			GH20-2154	DPPX	1SK
5760-XR1	DPPX Distributed Presentation Serv Ver 1		1500	56	1275		47	11	17			GC33-0090	DPPX	1SK
5760-XR1/01	DPPX Interactive Map Definition Feature		3600	143	3060		121	17	27			GC33-0090	6000,6015,6014,6001	1SK
5760-XR2	DPPX APL			2730	455		2310	385	48	77		GH19-6208	DPPX Base & DPS	1SK
5760-XR5	DPPX Performance Tool Monitor	PT/DPPX	1890		69							GH20-2155	DPPX	1SB
5760-XR5/01	DPPX Performance Tool Reporter Feature	PT/DPPX	2205		80							GH20-2155	4504,4505	1SB
5760-XR6	DPPX Data Capture and Management System	DCMS	2440	139	1830		103	31	49			GH20-2421	DPPX	1SX
5760-010	Distributed Processing Programming Exec.	DPPX/Base	8400	335	7140		285	170	272			GC27-0400	8100	1SK
5760-010/01	DPPX/Base Command Facility Extensions		680	25	578		21	11	17			GC27-0400	6006,6018,6019,6007	1SK
5761-DS1	Distributed Processing Control Executive	DPCX Rel 6	6900	472	5865		402	111	177			GC22-9075	8100	1SK
5761-XR1	Distributed Office Support Facility Rel6	DOSF	12300	805	10455		683	115	184			GC27-0546	DPPX	1SK
*5767-001	Application System Release 4	AS	6000	3000	2000							GE45-5000	MVS,VM+GDDM	T1SE
5767-002	RACF/VM	RPQ P88028		750	250		564	188	32	51		SC34-2296	VM	2SK
5770-SA1	Store System Installation Aids	PSS	nc										DOS/VS,DOS/VSE	NOSB
5770-SA2	Store System Installation Aids	PSS	nc										OS/VS	NOSB
5771-AAA	4250 ITC Avant Garde Gothic tm	Typefont	640									G520-0004	CDPF (5668-997)	1IE
5771-AAB	4250 Monotype Baskerville tm	Typefont	640									G520-0004	CDPF (5668-997)	1IE

Number	Program Title	Short Name	OTC	ILC	MLC	DSO	DSI	DSH	MLP	MML	Mo	MoreInfo	Environment	TPLS
5771-AAC	4250 Monotype Bodoni tm	Typefont	640									G520-0004	CDPF (5668-997)	11E
5771-AAD	4250 Candida tm	Typefont	800									G520-0004	CDPF (5668-997)	11E
5771-AAE	4250 Monotype Century tm	Typefont	640									G520-0004	CDPF (5668-997)	11E
5771-AAF	4250 Monotype Century Schoolbook tm	Typefont	640									G520-0004	CDPF (5668-997)	11E
5771-AAG	4250 Excelsior tm	Typefont	480									G520-0004	CDPF (5668-997)	11E
5771-AAH	4250 Futura tm	Typefont	960									G520-0004	CDPF (5668-997)	11E
5771-AAJ	4250 Monotype Garamond tm	Typefont	640									G520-0004	CDPF (5668-997)	11E
5771-AAK	4250 Helvetica tm	Typefont	960									G520-0004	CDPF (5668-997)	11E
5771-AAL	4250 Optima tm	Typefont	640									G520-0004	CDPF (5668-997)	11E
5771-AAN	4250 Palatino tm	Typefont	640									G520-0004	CDPF (5668-997)	11E
5771-AAP	4250 Monotype Rockwell tm	Typefont	640									G520-0004	CDPF (5668-997)	11E
5771-AAQ	4250 ITC Souvenir tm	Typefont	640									G520-0004	CDPF (5668-997)	11E
5771-AAR	4250 Monotype Times New Roman tm	Typefont	640									G520-0004	CDPF (5668-997)	11E
5771-AAT	4250 Univers tm	Typefont	1280									G520-0004	CDPF (5668-997)	11E
5771-AAH	4250 Typewriter and Pi tm	Typefont	800									G520-0004	CDPF (5668-997)	11E
5771-ABA	Sonoran Serif (Source or Object)		640									G544-3088	PSF+3800/20/3812	21E
5771-ABB	Sonoran Sans Serif tm(Source or Object)		640									G544-3088	PSF+3800/20/3812	25E
5771-ABC	Pi and Specials tm (Source or Object)		480									G544-3088	PSF+3800/20/3812	21E
5771-ACA	Univers Condensed tm		640									G520-0004	CDPF	15E
5771-ACB	Helvetica Condensed and Expanded tm		1120									G520-0004	CDPF	15E
5771-ACC	ITC Souvenir tm Version 2		960									G520-0004	CDPF	15E
5771-ACC/01	ITC Souvenir tm Upgrade from Ver 1 to 2		320									4522		B15E
5771-ACD	ITC Korinna tm		1280									G520-0004	CDPF	15E
5771-ACF	Helvetica tm - Language Extentions		4500									G520-0004	CDPF	15E
5771-ACG	Monotype Rockwell(R) Language Extensions		3000									G520-0004	CDPF	15E
5771-ACH	Monotype Garamond(R) Language Extensions		3000									G520-0004	CDPF	15E
5771-ACJ	Monotype Peninim,Alachsoni,Times N Roman		3000									G520-0004	CDPF	15E
5771-ACK	Monotype Levenim tm and Helvetica tm		1500									G520-0004	CDPF	15E
5771-ACL	Oron tm and Univers (R)		1500									G520-0004	CDPF	15E
5771-ACN	Hadassah tm and Monotype Century tm		1500									G520-0004	CDPF	15E
5771-ACP	Univers Cyrillic tm		3000									G520-0004	CDPF	15E
5771-ACQ	Monotype Times New Roman Cyrillic tm		3000									G520-0004	CDPF	15E
5771-ACR	Monotype Bodoni Cyrillic tm		3000									G520-0004	CDPF	15E
5771-ACW	Characters for Mathematics and Science		960									G520-0004	CDPF	15E
5771-ACX	Monotype Times New Roman Language Extens		3000									G520-0004	CDPF	15E
5771-ACY	Monotype Old Eng Text & New Berolina tm		3000									G520-0004	CDPF	15E
5771-ADA	Datal Fonts (Source or Object)		160									G544-3088	PSF+3800/20/3812	21E
5771-ADB	APL2 Fonts (Source or Object)		160									G544-3088	PSF+3800/20/3812	21E
5771-ADH	Typewriter and Pi Version 2		1100									G520-0004	CDPF	15E
5771-ADH/01	Typewriter and Pi Upgrade from Ver1 to 2		310									4518		B15E
-5785-AAA	3800 Plotting Facility		2900		220							.GB21-2154	OS/VS	15H
5785-AAT	COBOL - OS to VS COBOL II		5500		250							.G320-0445	MVS,XA	15H
5785-ABB	High Level Image Processing System	HLIPS	13530		615							.G320-9211	VM+PL/I+HBUS+7350	15H
5785-ABH	VM Programming in Logic		8000									.G320-9228	VM	25H
+5785-ABJ	COBOL to COBOL II & CICS Com Lev Con Aid		7000		350							.G320-9498	MVS,XA+VS COBOL II	15H
-5785-BAB	JES/328x Print Facility		2750									.GB21-3059	Replaced by 5785-BAC	15X
+5785-BAC	JES/328x Print Facility Version 2		5500		250							G320-9500	MVS	15H
-5785-CZG	IMS Application Productivity Package	APP	3410									.GB21-3027	MVS/TSO,VM/CMS	15X
-5785-DBM	3850 Trace Interpretation Package		3300		250							.GB21-2541	MVS	11H
-5785-DCJ	Graphic Application Monitor - Interactiv		5860		533							12.G320-6659	5785-DCK	15X

Number	Program Title	Short Name	QTC	ILC	MLC	DSO	DSI	DSM	MLP	MML	Mo	CoreInfo	Environment	TPLS
-5785-DCK	Graphic Support System		5860		533							12.G320-6659	5785-DCK	15X
5785-DCN	Customer Order Servicing Data Management	COPICS	9710		294							.GB21-2633.DOS/VSE,OS/V5		15E
5785-DCP	Customer Order Servicing Order Management	COPICS	9710		294							.GB21-2633.DOS/VSE,OS/V5		15E
-5785-DCT	Integrated Processing of Data & Text V1	IPDT	18150		825							24.GB21-2755 OS/V5,IMS,DCF		15H
5785-DCH	Print Spooling System for CICS/V5		3365		255							.GB21-2970.DOS/VSE,MVS,CICS/V5		15X
-5785-DCX	Integrated Processing of Data & Text V1	IPDT	10250		466							.GB21-2946 CICS/OS/V5		15E
-5785-DDD	Integrated Processing of Data & Text V1	IPDT	6710		305							.GB21-2946 CICS/VSE		15E
5785-DDN	Periodicals Control System Rel 4	DOBIS	15795	2500	718							24.G320-6662 5787-DAA+FAJ+FAH		25H
5785-DED	Periodicals Control System Rel 4	DOBIS	15795	2500	718							24.G320-6662 5787-DAB+FAK+FAL		25H
5785-DEH	Integrated Processing of Data & Text V2	IPDT	2700		667							24.G320-0354 IMS/V5		25X
5785-DEJ	Integrated Processing of Data & Text V2	IPDT	2400		667							24.0320-0354 CICS/OS		25X
5785-DEK	Integrated Processing of Data & Text V2	IPDT	2000		563							24.0320-0354 CICS/VSE		25X
5785-DEL	DPPX Integrated Processing of Data & Text	IPDT	4400									.G320-0356 8100		15X
-5785-DEN	Shadow File Manager		660									.G320-9174 DPPX/SP,5760-010		15X
+5785-DER	Image Handling Facility		15000									.G320-9496 VM,MVS		25H
5785-DFB	Online to CICS-RPGII Conversion Aid		1015									.G320-9191 S5X/VSE		15X
5785-DFC	Procedure Analysis & Documentation		511									.G320-9191 System/34		15X
5785-DFD	OCL Online Procedure & Menu Convrsn		709									.G320-9191 System/34+CICS/S5X		15X
+5785-DFM	COPICS Executive Data Link	COPICS/EDL	10000		500							GB30-5056 XT,AT,3270-PC+Emul tn		15H
-5785-EAE	Project Evaluation and Control System	PEACS	8580		373							.G320-6088 VS-APL (5748-AP1)		15H
-5785-EAH	Numerical Geometry System - Basic		33880		1560							24.GB21-2608 MVS		15H
-5785-EAJ	Numerical Geometry System - Advanced		29040		1385							24.GB21-2608 5785-EAH		15H
-5785-EAN	Numerical Geometry System APT-AC Bridge		7260		330							24.GB21-2608 5785-EAH		15H
5785-EAM	Tape Library Control System		8580		390							.G320-6652 MVS		15H
-5785-EBG	COBOL/PL/I Conversion Aid - VSE to MVS		4330									.GB21-2792 DOS/VSE,MVS,VM/CMS		01H
5785-EBW	View Data Support		4220		192							. 3705		05C
5785-ECA	DPPX Extended Debugging Facility			330	115							12.GB21-2935 DPPX		15X
5785-ECE	VTAM Node Control Application	VNCA	5280		240							.GB21-3052 MVS		15X
5785-ECE/01	VTAM Node Control Applicatn Source Code	VNCE	nc									.GB21-3052 6000,6001		N15X
5785-ECF	DPCX DISOSS Extensions		1690									.G320-9209 D05F		15H
5785-ECG	DPCX D05F Dialog Manager		907									.GB21-3080 DPCX+D05F		15X
5785-ECX	Image View Facility		5940		270							.G320-0331 DIS05S+8815+MVS		15H
5785-ECX/01	Image View Facility/VM Feature		660		30							. 6010,6012		25H
+5785-ECY	Query.DL/I for IMS/V5		20000									.G320-0839 IMS DB/DC		15H
+5785-ECZ	Query.DL/I for CICS/MVS		20000									.G320-0839 IMS DB		15H
+5785-EDA	Query.DL/I for CICS/VSE		12500									.G320-0839 DL/I		15H
5785-EDB	DPPX Load Evaluation Simulator		5280		240							.G320-9210 COBOL		15H
+5785-EDH	Multiple Applicatns from a Single Screen MXXX		8000		365							.G320-9511 VTAM+MVS		15H
5785-EDJ	Image View Facility		5400									.G320-0802 DIS05S+Scanmaster		25H
5785-EDJ/01	Image View Facility/VM Feature		600									. 6008,6009		25H
-5785-FAM	6670 Mod II Font Editing System		880									.GB21-3068 OS/V5,VM		15X
5785-FAZ	6670 II Image Printing System		660									.G320-0332 Font files,edit+PL/I		15H
5785-FBA	Information System Model & Architecture	ISM0D	14300		650							.G320-9235 MVS,VM		15H
5785-GAJ	IMS/V5 Queue Loader		5720		260							.GB21-3125 IMS/V5-DB/DC		15H
5785-GAK	Chained Jobs Scheduling		11320		858							.GB21-2869 OS/V5		15H
5785-GAX	COPICS Purchasing		12470		379							.GB21-2772.DOS/VSE,OS/V5 DL/I		15E
5785-GAZ	COPICS Receiving		8690		264							.GB21-2774.DOS/VSE,OS/V5 DL/I		15E
5785-GBA	COPICS Bill of Material Online II		4725		142							.GB21-2638.DOS/VSE OS/V5 DL/I		15E
5785-GBC	COPICS Bill Material Batch Utilities II		2490		75							.GB21-2640.DOS/VSE OS/V5 DL/I		15E
5785-GBD	COPICS Product Cost Calculations II		5705		173							.GB21-2642.DOS/VSE OS/V5 DL/I		15E

Number	Program Title	Short Name	OTC	ILC	HLC	D50	DSI	DSH	HLP	MML	Mo	MoreInfo	Environment	TPLS
5785-GBE	COPICS Inventory Accounting II		3475		105							.GB21-2644	DOS/VSE OS/VS DL/I	15E
5785-GBF	COPICS Material Requirements Planning II		5215		158							.GB21-2646	DOS/VSE OS/VS DL/I	15E
5785-GCC	System A - An Application Analyzer	APAX	16940		770							.G320-9233	MVS, VM	15H
-5785-JAA	COBOL Conversion from Honeywell (R)		3300									.GB21-2858	OS/VS, DOS/VSE, VM/370	05H
-5785-JAC	COBOL Conversion Aid from Univac (R)		3300									.GB21-2763	DOS/VSE OS/VS	05H
-5785-KAE	Continuous System Modeling - APL	CSMP	2285		104						24.	G320-6081	5748-AP1	15H
5785-KAJ	Batch to SXX/VSE Conversion Aid		407									.G320-9191	SXX/VSE	15X
5785-NAD	DPXX APL Data Interface		4300									G320-0173	DPXX	15X
5785-RAA	DPXX Distb Document Formatting Facility	DFFF	1980									.G320-0355	8100	15X
-5785-RAB	Application Prototype Environment		3960									.GB21-3078	Replaced by 5668-896	15X
5785-UAB	DPXX Case Processing System		4250			3600						.G320-0827	DPXX Base or DPPX/SP	15H
5787-DAA	Dortmund Leuven Library System Rel 4	DOBIS	22330		1015						24.	G320-6662	OS/VS, CICS/VS	25X
5787-DAB	Dortmund Leuven Library System Rel 4	DOBIS	17290		786						24.	G320-6662	DOS/VSE, CICS/VS	25X
5787-FAH	Dortmund Leuven Library System Batch	DOBIS Rel2	13900		632						24.	G320-6662	5787-DAA	25X
5787-FAJ	Dortmund Leuven Library System Online	DOBIS Rel4	13900		632						24.	G320-6662	5787-DAA -FAH	25X
5787-FAK	Dortmund Leuven Library System Online	DOBIS Rel4	13900		632						24.	G320-6662	5787-DAA -FAH	25X
5787-FAL	Dortmund Leuven Library System Batch	DOBIS Rel1	8820		401						24.	G320-6662	5787-DAB	25X
5787-GAA	DPXX Distributed Plant Maintenance		17600	1560	599							.GB21-2895	8100	25X
5787-GAA/01	DPXX Distb Plant Maint Work Order		14850									.	6001	25
5787-GAF	CIPREC/Graphic Services		36300		1650							.G320-9207	VM, MVS, VSE	25H
5792-ZFB	=MONEY-TRACK= (Teaching & Demonstrator)		nc									.GB30-2313	IBM Internal	N05X
5793-AAE	Distribution Control - Common Features		20570									.GB30-2064	CICS/DOS/VS	15X
5793-AAF	Distribution Control - Order Entry		11990									.GB30-2064	5793-AAE	15X
5793-AAG	Distribution Control - Accts Receivable		8360									.GB30-2064	5793-AAE	15X
5793-AAH	Distribution Control - Purchasing		7150									.GB30-2064	5793-AAE	15X
5793-AAJ	Distribution Control - Billing		9570									.GB30-2064	5793-AAE	15X
5793-AAK	Distribution Control - Inventory Control		8360									.GB30-2064	5793-AAE	15X
5793-AAN	Waterloo PC Network Standalone Server		1650									.GB30-2411	DOS/RPS on Series/1	05F
5793-AAN/01	Waterloo PC Network Channel Attached		nc									.GB30-2411	2001	N05F
5793-AAN/02	Waterloo PC Network VM Server		1650									.GB30-2411	2002	05F
5793-AAN/03	Waterloo HOSTCM		330									.	2003	05F
5793-AAP	Waterloo and MATCOM Languages		4950									.GB30-2339	DOS	05F
5793-AAP/01	Waterloo and MATCOM Languages for VM		6600									.	9504	05F
5793-AAZ	Client Financial Management	Attorney	10830									.GB30-2151	5793-ABZ	05X
5793-ABA	Law Firm Financial Management	Attorney	4800									.GB30-2151	5793-ABZ	05X
5793-ABB	Lawyer Financial Management	Attorney	3870									.GB30-2151	5793-AAZ+ABZ	05X
5793-ABD	Accounts Receivable and Collection	Attorney	968									.GB30-2151	5793-AAZ+ABZ	05X
5793-ABE	Client Statements	Attorney	423									.GB30-2151	5793-AAZ+ABZ	05X
5793-ABF	Attorney Practice - Statutory Dates	Docket	3850									.GB30-2160	5793-ABL+ABZ	05X
5793-ABG	Attorney Practice - Research & Retrieval		6270									.GB30-2160	5793-ABZ	05X
5793-ABH	Attorney Practice - Conflict of Interest		3850									.GB30-2160	5793-ABL+ABZ	05X
5793-ABJ	Law Firm Library Management	Attorney	6270									.GB30-2160	5793-ABZ	05X
5793-ABK	Litigation Support	Attorney	6270									.GB30-2160	5793-ABZ	05X
5793-ABL	Client/Matter Record Management	Attorney	2320									.GB30-2166	5793-ABZ	05X
5793-ABN	Office System - Financial Schedules	Attorney	2640									.GB30-2166	5793-ABZ	05X
5793-ABP	Office System - Mailings	Attorney	1760									.GB30-2166	5793-ABZ	05X
5793-ABQ	Office System - Time From Displaywriter	Attorney	2200									.GB20-2170	5793-AAZ+ABZ	05X
5793-ABR	Disbursements from Displaywriter	Attorney	2200									.GB30-2170	5793-AAZ+ABZ	05X
5793-ABW	Office System - Time from OCR	Attorney	2200									.GB30-2170	5793-AAZ+ABZ	05X
5793-ABX	Disbursements from Copier/Postage	Attorney	2200									.GB30-2170	5793-AAZ+ABZ	05X

Number	Program Title	Short Name	OTC	ILC	MLC	DSO	DSI	DSM	MLP	MML	Mo	MoreInfo	Environment	TPLS
5793-ABY	Office Sys - Disbursements from Phone	Attorney	2200									.GB30-2170	5793-AAZ+ABZ	.0SX
5793-ABZ	Attorney Info Sys - Controller System		192									.GB30-2151	System/36	0SX
5793-ACA	Distribution Control - Common Features		20570		935							.GB30-2064	4300+MVS+CICS/VS	1SX
5793-ACB	Distribution Control - Order Entry		11990		565							.GB30-2064	5793-ACA	1SX
5793-ACC	Distribution Control - Accounts Receivbl		8360		380							.GB30-2064	5793-ACA	1SX
5793-ACD	Distribution Control - Purchasing		7150		325							.GB30-2064	5793-ACA	1SX
5793-ACE	Distribution Control - Billing		9570		435							.GB30-2064	5793-ACA	1SX
5793-ACF	Distribution Control - Inventory Control		8360		380							.GB30-2064	5793-ACA	1SX
5793-ACH	Client Financial Management Series 800	Attorneys	4950									.GB30-2415	System/36+5793-ABZ	.0SH
5793-ACJ	Law Firm Financial Management Series 800	Attorneys	2200									.GB30-2415	System/36+5793-ABZ	.0SH
5793-ACK	Lawyer Financial Management Series 800	Attorneys	1650									.GB30-2415	S/36+5793ACH+ABZ	.0SH
5793-ACL	Accts Receivable Collections Series 800	Attorneys	440									.GB30-2415	S/36+5793ACH+ABZ	.0SH
5793-ACN	Client Statements Series 800	Attorneys	220									.GB30-2415	S/36+5793ACH+ABZ	.0SH
5793-ACP	Statutory Dates (Docket) Series 800	Attorneys	1650									.GB30-2415	S/36+5793ABZ+ACR	.0SH
5793-ACQ	Conflict of Interest Series 800	Attorneys	1650									.GB30-2415	S/36+5793ACL+ABZ	.0SH
5793-ACR	Client/Matter Records Mgt Series 800	Attorneys	1100									.GB30-2415	S/36+5793ABZ	.0SH
5793-ACH	FLEET MAINT tm		3950									GB30-2037	5531,7531,7532	0SY
+5793-ACX	Allen-Bradley PLC-2 Ladder Logic Documen		2500										Industrial PC	0SY
+5793-ACX/01	Allen-B PLC-2 Ladder Up/Downline Loading		350										Industrial PC	0SY
+5793-ACX/02	Allen-Bradley PLC-2 Wiring Diag Generatr		500										Industrial PC	0SY
+5793-ACX/03	Allen-Bradley PLC-2 Draftec		950										Industrial PC	0SY
+5793-ADF	Distribution Control System - CommonFeat		21000									.GB30-6003	VSE	1SH
+5793-ADG	Distribution Control System - OrderEntry		14000									.GB30-6003	VSE+CommonFeat	1SH
+5793-ADH	Distribution Control System - Inventory		9500									.GB30-6003	VSE+CommonFeat	1SH
+5793-ADJ	Distribution Control System - Inventory		10000									.GB30-6003	VSE+CommonFeat	1SH
+5793-ADK	Distribution Control System - Purchasing		7500									.GB30-6003	VSE+CommonFeat	1SH
+5793-ADL	Distribution Control System - Accts Rec		8500									.GB30-6003	VSE+INFOREM I	1SH
+5793-ADN	Distribution Control Sys INFOREM Xface		10000									.GB30-6003	5793-ADP+INFOREM II	1SH
5793-ADR	Info Syst for Attorneys - Controller Sys		175									.GB30-6000	System/36 PC	0SH
5793-ADT	Info Syst for Attny - Client/Matter Recd Series 700		500									.GB30-6000	Controller	0SH
5793-ADM	Info Syst for Attny - Conflict Interest Series 700		750									.GB30-6000	Client/Matter Record	0SH
5793-ADX	Info Syst for Attny - Stat Dates (Docket) Series 700		750									.GB30-6000	Client/Matter Record	0SH
5793-ADY	Info Syst for Attny - Client Statements Series 700		100									.GB30-6000	Client Finance Mgt	0SH
5793-ADZ	Info Syst for Attny - Accts Rec & Collec Series 700		200									.GB30-6000	Client Finance Mgt	0SH
5793-AEA	Info Syst for Attny - Lawyer Finance Mat Series 700		750									.GB30-6000	Client Finance Mgt	0SH
5793-AEB	Info Syst for Attny - Law Firm Finance Series 700		1000									.GB30-6000	Controller System	0SH
5793-AED	Info Syst for Attny - Client Finance Mgt Series 700		2250									.GB30-6000	Controller System	0SH
5793-AEF	Info Sys for Attny - Controller System Series 900		175									.GB30-6001	System/36 PC	0SH
5793-AEF/01	Info Syst for Attny - Upgr from 5793-ADR Series 900		20									.GB30-6001	4501	0SH
5793-AEG	Info Syst for Attny - Client/Matter Recd Series 900		1375									.GB30-6001	Client Finance Mgt	0SH
5793-AEG/01	Info Syst for Attny - Upgr from 5793-ADT Series 900		925									.	4517	0SH
5793-AEH	Info Syst for Attny - Conflict Interest Series 900		2275									.GB30-6001	Client/Matter Record	0SH
5793-AEH/01	Info Syst for Attny - Upgr from 5793-ADM Series 900		1600									.GB30-6001	4515	0SH
5793-AEJ	Info Syst for Attny - Stat Dates (Docket) Series 900		2275									.GB30-6001	Client/Matter Record	0SH
5793-AEJ/01	Info Syst for Attny - Upgr from 5793-ADX Series 900		1600									.GB30-6001	4513	0SH
5793-AEK	Info Syst for Attny - Client Statements Series 900		250									.GB30-6001	Finance Mgt	0SH
5793-AEK/01	Info Syst for Attny - Upgr from 5793-ADY Series 900		160									.GB30-6001	4511	0SH
5793-AEL	Info Syst for Attny - Accts Rec & Coll Series 900		575									.GB30-6001	Lawyer Finance Mgt	0SH
5793-AEL/01	Info Syst for Attny - Upgr from 5793-ADZ Series 900		395									.GB30-6001	4509	0SH
5793-AEN	Info Syst for Attny - Lawyer Finan Mgt Series 900		2290									.GB30-6001	Contrlr+Client Fin	0SH



Number	Program Title	Short Name	OTC	ILC	MLC	DSO	DSI	DSM	MLP	MML	Mo	MoreInfo	Environment	TPLS
5793-AEN/01	Info Syst for Attny - Upgr from 5793-AEA	Series 900	1615									.GB30-6001	4507	OSH
5793-AEP	Info Syst for Attny - Law Firm Finance	Series 900	2860									.GB30-6001	Contrlr+Client Fin	OSH
5793-AEP/01	Info Syst for Attny - Upgr from 5793-AEB	Series 900	1960									.GB30-6001	4505	OSH
5793-AEQ	Info Syst for Attny - Client Finance Mgt	Series 900	6400									.GB30-6001	Controller	OSH
5793-AEQ/01	Info Syst for Attny - Upgr from 5793-AED	Series 900	4375									.GB30-6001	4503	OSH
5793-AER	Info Syst for Attny - Litigation Support	Series 900	2850									.GB30-6001	Controller	OSH
5793-AET	Info Syst for Attny - Library Management	Series 900	2850									.GB30-6001	Controller	OSH
5793-AEH	Info Syst for Attny - Research/Retrieval	Series 900	2850									.GB30-6001	Controller	OSH
5793-AEY	CAMM tm System Kit		200									.GB30-2037	5531, 7531, 7532	OSY
5793-AEY/01	CAMM DSE Analytical Mod, Std Graphics		500									.GB30-2037	4505	OSY
5793-AEY/02	CAMM DSE Analytical Mod, Enhanced Graphi		950									.GB30-2037	4506	OSY
5793-AEY/03	CAMMGraph Build/Display Enhanced Graphi		4600									.GB30-2037	4507	OSY
5793-AEY/04	CAMMGraph Display Enhanced Graphics		2600									.GB30-2037	4508	OSY
5793-AEY/05	CAMM Allen-Bradley Controller Offline		500										4509	OSY
5793-AEY/06	CAMM Analogic tm Controller Offline		500										4510	OSY
5793-AEY/07	CAMM General Electric tm Contlr Offline		500										4511	OSY
5793-AEY/08	CAMM Modicon tm Controller Offline		500										4525	OSY
5793-AEY/09	CAMM TIMAY tm Controller Offline		500										4526	OSY
5793-AEY/10	CAMM Turnbull Controller Offline		500										4512	OSY
5793-AEY/11	CAMM Allen-Bradley Controller Online		1750									.GB30-2037	4513	OSY
5793-AEY/12	CAMM Analogic Controller Online		1750									.GB30-2037	4514	OSY
5793-AEY/13	CAMM General Electric Controller Online		1750									.GB30-2037	4515	OSY
5793-AEY/14	CAMM Modicon Controller Online		1750									.GB30-2037	4527	OSY
5793-AEY/15	CAMM TIMAY Controller Online		1750									.GB30-2037	4528	OSY
5793-AEY/16	CAMM Turnbull Controller Online		1750									.GB30-2037	4516	OSY
5793-AEZ	SQCpack tm		595									.GB30-2037	5531, 7531, 7532	OSY
5793-AFA	QualityAlert tm		795									.GB30-2037	5531, 7531, 7532	OSY
5793-AFC	MinuteMan tm		4990									.GB30-2037	5532, 7532, 7532	OSY
5793-AFD	MEDIA-FLEX tm Maintenance Management		5995									.GB30-2037	5531, 7531, 7532	OSY
5793-AFF	MICRO MAINT tm		4950									.GB30-2037	5532, 7531, 7532	OSY
+5793-AFF/01	CAMM tm Interface Module		550										4500	OSY
+5793-AFG	Distribution Control System - CommonFeat		21000									.GB30-6003	MVS	1SH
+5793-AFH	Distribution Control System - OrderEntry		14000									.GB30-6003	MVS+CommonFeat	1SH
+5793-AFJ	Distribution Control System - Inventory		9500									.GB30-6003	MVS+CommonFeat	1SH
+5793-AFK	Distribution Control System - Inventory		10000									.GB30-6003	MVS+CommonFeat	1SH
+5793-AFL	Distribution Control System - Purchasing		7500									.GB30-6003	MVS+CommonFeat	1SH
+5793-AFN	Distribution Control System - Accts Rec		8500									.GB30-6003	MVS+CommonFeat	1SH
+5793-AFP	Distribution Control Sys INFOREM Xface		10000									.GB30-6003	5793-AFG+INFOREM II	1SH
5793-AFX	Info Sys for Attorneys - Accts Payable	Series1000	3500									.GB30-6012	5793-ABA	OSH
5793-AFX/01	Info Sys for Attyns Upgr from 5793-AFZ	Series1000	2100										4535	OSH
5793-AFY	Info Sys for Attorneys - Accts Payable	Series 900	2275									.GB30-6011	5793-AEF	OSH
5793-AFY/01	Info Sys for Attyns Upgr from 5793-AGA	Series 900	1600										4533	OSX
5793-AFZ	Info Sys for Attorneys - Accts Payable	Series 800	1750									.GB30-6012	5793-ACJ	OSH
5793-AGA	Info Sys for Attorneys - Accts Payable	Series 700	750									.GB30-6011	5793-AEB	OSH
5793-AGB	MEDIA-FLEX tm Preventive Maintenance		3995									.GB30-2037	5531, 7531, 7532	OSY
5793-AGB/01	MEDIA-FLEX Inventory Module Upgrade		3000									.GB30-2037	4556	OSY
+5793-AGC	Allen-Bradley PLC-3 Ladder Logic Documen		2500										Industrial PC	OSY
+5793-AGC/01	Allen-Bradley PLC-3 Wiring Diag Generatr		500										Industrial PC	OSY
+5793-AGC/02	Allen-Bradley PLC-3 Drafter		950										Industrial PC	OSY
5793-AGD	Taylor Industrial - Modicon 484/584/884		2500									.GB30-2037	5531, 7531, 7532	OSY

Number	Program Title	Short Name	OTC	ILC	MLC	DSO	DSI	DSM	MLP	MML	Mo	MoreInfo	Environment	TPLS
5793-AGF	Energy 2.0 (c)		6000										5531,7531,7532	05Z
+5793-AGN	!BARSOFT tm		895									GB30-2027	Industrial PC	05Y
+5793-AGN/01	!BARSOFT (Manual)		75									GB30-2027	Industrial PC	05Y
+5793-AGP	EASYLABEL tm		2500									GB30-2027	Industrial PC	05Y
+5793-AGP/01	EASYLABEL tm (Manual)		125									GB30-2027	Industrial PC	05Y
+5793-AGQ	THE FIX tm with EPROM for C/GA		4500									GB30-2027	Industrial PC	05Y
+5793-AGQ/01	THE FIX tm with EPROM for EGA		4500									GB30-2027	Industrial PC	05Y
+5793-AGQ/02	THE FIX Eng Devt with EPROM for C/GA		2100									GB30-2027	Industrial PC	05Y
+5793-AGQ/03	THE FIX Eng Devt with EPROM for EGA		2100									GB30-2027	Industrial PC	05Y
+5793-AGQ/04	THE FIX Runtime with EPROM for EGA		2675									GB30-2027	Industrial PC	05Y
+5793-AGQ/05	THE FIX Device Driver for IBM DACA		795									GB30-2027	5793-AGW	05Y
+5793-AGQ/06	THE FIX Device Driver for ACRO-900 tm		795									GB30-2027	5793-AGW	05Y
+5793-AGQ/07	THE FIX Device Driver for PLC-2 tm		795									GB30-2027	5793-AGW	05Y
+5793-AGQ/08	THE FIX Device Driver for DT 2808		795									GB30-2027	5793-AGW	05Y
+5793-AGQ/09	THE FIX Device Driver for MODBUS tm		1095									GB30-2027	5793-AGW	05Y
+5793-AGQ/10	THE FIX Device Driver for OPTOMUX tm		795									GB30-2027	5793-AGW	05Y
+5793-AGQ/11	THE FIX OEM Toolkit		1250									GB30-2027	5793-AGW	05Y
+5793-AGQ/12	THE FIX User's Guides Set		125									GB30-2027	5793-AGW	05Y
+5793-AGQ/13	THE FIX BASIC Data Base Access		395									GB30-2027	6595	05Y
+5793-AGQ/14	THE FIX C Language Data Base Access		395									GB30-2027	6596	05Y
+5793-AGQ/15	THE FIX Online Report Package		150									GB30-2027	6593	05Y
+5793-AGQ/16	THE FIX Historical Trending		650									GB30-2027	6598	05Y
+5793-AGR	LOOPNRKRS tm		2995									GB30-2027	Industrial PC	05Y
+5793-AGR/01	LOOPNRKRS tm Manual		105									GB30-2027	Industrial PC	05Y
+5793-AGT	CRIBWARE tm		2500									GB30-2027	Industrial PC	05Y
+5793-AGW	THE FIX tm Runtime w/EPROM for CGA/EGA		2675									GB20-2037	Industrial PC	05Y
+5793-AGW/01	THE FIX BASIC Data Base Access		395									GB20-2037	6595	05Y
+5793-AGW/02	THE FIX C Language Data Base Access		395									GB20-2037	6596	05Y
+5793-AGW/03	THE FIX Online Spreadsheet Interface		250									GB20-2037	6597	05Y
+5793-AGW/04	THE FIX Online Report Package		150									GB20-2037	6593	05Y
+5793-AGW/05	THE FIX Historical Trending		650									GB20-2037	6598	05Y
+5793-AGX	THE FIX tm with EPROM for CGA/EGA		2100									GB30-2037	Industrial PC	05Y
+5793-AHC	Allen-Bradley 1774PLC Ladder Logic Docum		1250										Industrial PC	05Y
+5793-AHD	Modicon Micro-84 Ladder Logic Documentat		1250										Industrial PC	05Y
+5793-AHE	Modicon 484 Ladder Logic Documentation		1250										Industrial PC	05Y
+5793-AHE/01	Modicon 484 Draftec		950										Industrial PC	05Y
+5793-AHE/02	Modicon 484 Wiring Diagram Generator		500										Industrial PC	05Y
+5793-AHF	Modicon 584/884/984 Ladder Logic Documen		2500										Industrial PC	05Y
+5793-AHF/01	Modicon Wiring Diagram Generator		500										Industrial PC	05Y
+5793-AHF/02	Modicon Draftec		950										Industrial PC	05Y
+5793-AHG	Texas Instrument's Ladder Logic Documenta		2500										Industrial PC	05Y
+5793-AHH	Allen-Bradley PLC-2 Offline Programming		1250										Industrial PC	05Y
-5796-AFC	3270 Screen Image Preprocessor				123						12.6320-8099	05, 05/VS		1SH
5796-AFK	2927 Dual Printer Utility Program				115						12.6320-8106	2927+1403N1		1SX
-5796-AFP	SMF Graphical Analysis Program				200						12.6320-8127	05/VS, MFT,MWT		1IH
5796-AHJ	CICS/VS Online Test Debug II	OLTD II	2625		112						.6320-5710	DOS/VS,05/VS		1SE
5796-AHT	IMS Log Tape Management System				200						12.6320-8141	05/VS2, IMS/VSIMS		1SH
-5796-AHZ	COBOL Maintenance Aid				550						.6320-8146	05/VS		1IH
5796-AJE	DL/I Data Base Dump				440						.6320-8156	DOS/VS DL/1		1SH
5796-ALP	3890 Statement Preparation Sort		3630		330						12.6320-5715	05/VS1		1SH

Number	Program Title	Short Name	OTC	ILC	MLC	DSO	DSI	DSH	MLP	MML	Mo	MoreInfo	Environment	TPLS
5796-ANY	HCS PCS Patient Care System OS	PCS			2900							24.G320-5756	MVS+CICS+IMSDB	25H
5796-APC	Mathematics, Elementary				260							24.G320-5804	IIS, IIPS (NOT IMS)	1EH
5796-AQM	EPIC - SDCRATES Online Maint System				220							12.G320-5814	DOS/VS, CICS/VS	15H
5796-ARE	3800 90 Degree Print Program		3430		260							.G320-5825	OS/VS	15H
-5796-ARH	Chained CCM Print Subroutine		385									.G320-5828	DOS/VS	15H
-5796-ARN	DL/I - CICS/VS Test Prog. State Indust.		1020		93							12.G320-6053	DOS/VS	15H
5796-ATA	CADAM (R) CAD-only Interactive Module		78700	4650	1400	44970	8610	799				G320-6063	OS/VS, VM+GAM	15E
5796-ATB	CADAM (R) CAD/CAM Interactive Module		90660	16100	1615	51800	9840	922				G320-6063	OS/VS, VM+GAM	15E
5796-ATC	CADAM (R) Data Management Module		35530	6700	624	20300	4090	356				G320-6063	OS/VS, VM+GAM	15E
5796-ATD	CADAM (R) Hardcopy Module		29910	5550	527	17100	3390	300				G320-6063	OS/VS, VM+GAM	15E
5796-ATE	CADAM (R) APT Interface		23900	4305	430	13660	2460	246						15E
5796-ATG	CADAM (R) Statistical Data Module		2120	372	34	1960	226	19				G320-6063	OS/VS, VM+GAM	15E
5796-ATH	CADAM (R) Accounting Information Module		3540	654	63	2020	399	35				G320-6063	OS/VS, VM+GAM	15E
5796-ATJ	CADAM (R) Geometry Interface Module		20730	3820	365	11840	2335	208				G320-6063	OS/VS, VM+GAM	15E
-5796-ATK	COBOL - 3270 Full Screen Support		1570		143							12.G320-6067	TSO	15H
5796-ATP	Message Requeuer	MQR	4950		154							G320-6071	IMS/VS V1	11E
-5796-ATR	PC/3600 Trans Documentor & Xref				150							12.G320-6067	DOS/VS, OS/VS, CICS/VS	15H
5796-ATZ	HCS PCS Patient Care System DOS	PCS			3190							24.G320-5756	VSE+CICS+DL/I	25H
5796-AMC	Laboratory Data Management System II	LDMS II	36540		1665							.G320-6080	VSE+CICS	15H
-5796-AHE	3800 Page Formatting Service		3890		295							12.G320-6067	OS/VS	15H
5796-AHH	Laboratory Data Acquisition System	LDAS			925							24.G320-6095	VSE	15H
5796-AHJ	PCS Radiology	PCS	5565		460							12.G320-6092	5796-ANY, ATZ	15H
5796-AHR	CADAM (R) 3D Mesh Geometry Module		27510	2910	457	15730	3870	261				G320-6063	OS/VS, VM/CMS	05H
5796-AHT	CADAM (R) 3D Surface Geometry Module		12050	1285	215	6885	1250	123				G320-6063	OS/VS, VM/CMS	05H
-5796-AHX	3800 90 Degree Print Program		3145		286							12.G320-6067	DOS/VSE	15H
-5796-AXY	Bond Quote System				185							12.G320-6172	MVS/TSO	15H
-5796-AYA	DISCOVER- Career Guidance System - Base				750							24.G320-6176	DOS/VSE VS1	15H
-5796-AYB	Career Guidance System- Secondary School	DISCOVER			250							24.G320-6176	5796-AYA	15H
-5796-AYC	Career Guidance System- Adults / College	DISCOVER			250							24.G320-6176	5796-AYA	15H
5796-AYD	JES2 Information Retrieval System - CMS		3960		300							.G320-6336	VM/CMS	15H
5796-AYF	3890 Online Fine Sort Enhancements				185							12.G320-6329	5798-CRC and CPCS	15H
-5796-AYH	Inter-Region Access Method				300							12.G320-6335	MVS with VSAPL	15H
-5796-AYJ	Graphic Training Aid		8580		390							.G320-6336	VS1	15H
5796-AYK	Virtual Spooled Reader Display		1055									.G320-6338	VM/CMS	15H
-5796-AYL	HCS DL/I Medical Record Abstract System	HCS DL/I			747							24.G320-6341	VSE+5798-CCA, CCB	15H
5796-AYP	PCS ADS Crossreference	PCS-ADS	4950									.G320-6342	5796-BCE	15X
-5796-AYX	V5AM Control Area Freespace Map Utility		1185									.G320-6346	OS/VS	15H
5796-AZA	CAEDS (R) Frame Analysis		20960	2085	695	15400	1380	460				GE20-0771	MVS/VM+5080/3250	15E
-5796-AZK	3800 Line Inserter		1120									.G320-6393	OS/VS	15H
-5796-AZR	Automated Project Planning & Evaluation	APPLES	968		88							12.G320-6399	MVS, DOS/VS, VM/CMS	15H
-5796-AZT	APL System Extensions		3165		240							.G320-6394	VM/CMS with VSAPL	15H
5796-AZX	Bank Teller Ap - Commercial Extensions	BTAP-CE	1580									.G320-6396	3600	15H
5796-BAC	3800 90 Degree Print Extensions		858									.G320-6418	5796-ARE, -AMX	15H
-5796-BAE	Supermarket Cashier Performance System				180							12.G320-6407	DOS/VSE	15H
-5796-BAF	Universal Dump, Alter, Copy, & Select	UDACS			50							12.G320-6405	OS/VS	15H
5796-BAZ	Education Information System - Data Base	EIS			488							24.G320-6424	DOS/VSE DMS DL/I	15X
5796-BBE	Direct Store Vendor Delivery Control				655							24.G320-6423	DOS/VS CICS DL/I	15H
5796-BBF	Patient Care System Patient Management 1.1	PCS-PM		5135	1050							.G320-6425	MVS, VSE+5796-BCE, BCF	15E
5796-BBG	3624 Teller Machine IMS/VS Host Support				1725							12.G320-6427	MVS, ACF/VTAM	175H
5796-BBH	Automated Teller Host Enhancements	FAAT			1050							12.G320-6428	DOS/VS, CICS/VS	15H

Number	Program Title	Short Name	OTC	ILC	MLC	DSQ	DSI	DSM	MLP	MML	Mo	MoreInfo	Environment	TPLS
5796-BBB	Automated Teller Host Support	FAAT			2235							12. G320-6428	CICS/DOS/VS	15H
5796-BBR	DPPX 3640 Shop Floor Control System				345							12. G320-6432	DPPX	15H
5796-BBT	English Communications Skills II		5080		385							. G320-6433	IIS, IIPS	1EH
5796-BBZ	CAEDS (R) Graphics System		49700	3275	1655	34790	23001100					GE20-0771	MVS, VM+3250/5080	15E
5796-BCC	PCS Infection Data Management	PCS	7125		540							. G320-6627	5796-ANY, ATZ	15X
5796-BCE	PCS ADS Application Execution System 2.0	PCS-AES	16500		589							. G320-6651	OS, D05+C1C5+DL/I	15E
5796-BCF	PCS ADS Application Preparation Sys 1.1	PCS-APS	13650		487							. G320-6651	OS, D05+C1C5+DL/I	15E
-5796-BCL	Host Document View Facility		5170	635	207							. G320-6640	MVS, DIS05S, IMS, CICS	15X
-5796-BCQ	DPPX Segmented Access Method	SAM			270							12. G320-6639	DPPX, DTMS	15X
5796-BCR	RAMS II Student Service System				471							24. G320-6661	VSE, DL/I, 5735-E91	15X
5796-BCT	FORTRAN VS Course		1925									. G320-6653	IIS, IIPS	1EX
-5796-BCW	Alumni Information System			1500	500							24. G320-6656	CICS/VS, DL/I	15X
5796-BCX	BASIC RM		2842		93							. G320-6658	See 5668-996, 5665948	15X
5796-BCY	Batch Subsystem		1100									. G320-6660	VM/CMS	15H
-5796-BCZ	Alumni Information System			1500	500							24. G320-6656	CICS/VS, DL/I	15X
5796-BDG	CADAM (R) to COMPACT II (R) Interface		18900	1440	480	12600	963	321				OS/VS, VM+GAM	15E	
-5796-BDH	Inventory Cycle Counting		1980									. G320-9127	DOS/VSE	15X
-5796-BDL	In-Store Data Communication Facility		858									. G320-9129	Series/1	15X
-5796-BDN	Map Facility - Interactive		4620									. G320-9131	MVS/T50, GDDM	15X
5796-BDP	Integrated Publishing System - Host			3900	1495							24. G320-9128	VM/CMS+5796-BDQ	15X
5796-BDQ	Integrated Publishing System		1100									. G320-9128	Series/1+5796-BDP	15X
5796-BDT	CADAM (R) APT Source Geometry		21000	1605	535	14000	1065	353				OS/VS+GAM	15E	
5796-BDW	CAEDS (R) Finite Element Solver		26470	3655	941	19800	2400	620				G520-3935	5796-BBZ+3277GA, 3251	15E
5796-BDX	Problem Statement Language and Analyzer	PSL/PSA	49500									. G320-2719	VM, MVS	15H
5796-BDY	HSM Maintenance / Recovery Utilities		2000									. G320-9162	MVS+5740-XRB	15H
5796-BDZ	737x Industry Std Plotting Commands		395									GC23-0120	MVS, VM, RS232+FORTRAN	15X
5796-BEB	Fastdraft to IGES Translator			2285	251						24	OS/VS, VM/SP	15X	
5796-BEP	CAEDS (R) System Analysis		45790	4815	1605	33740	31501050					GE20-0771	MVS, VM+5080/3250+GAM	15E
5796-BFN	CADAM (R) 3D Piping		41730	2730	910	26150	1830	610				5668-840		15E
5796-BFR	CAEDS (R) Modeler		77100	7710	2570	53970	54001800					GE20-0771	VM, MVS+5080+GAM	15E
5796-BTR	PCS ADS Data Dictionary Interface	PCS-ADS	2475									. G320-9150	5740-XXF, 5746-XXC	15X
5796-BTT	Legal Diary System	LDS	49500									.	CICS/OS/VS	25X
5796-BTW	Check Proc Archive Retrieval & Suspense		8800									. G320-9153	OS/VS	15X
-5796-NPW	COBOL Subsystem Compiler		4300		391							12. GB30-1100	Series/1	15H
-5796-NZP	Online Appointment System				258							12. GB30-1440	System/34	15H
-5796-PBE	Map Facility - Interactive		4620									. G320-9131	MVS/T50, GDDM	15X
-5796-PBH	Advanced Statistical Analysis	ASTAP			1350							24. G320-8063	OS/MFT/MVT/VS	21H
-5796-PCM	DL/I Map		902		82							12. G320-8159	DL/1 DOS/VS	05H
-5796-PDA	IMS/VS Test Utilities		1210		110							12. G320-1540	OS/VS1/VS2, IMS/VS	15H
-5796-PDG	Interactive Query & Report Processor	IQRP	32890		1495							24. G320-1544	OS/VS1, VS2	15H
-5796-PDJ	Midband Communication Program	MCP	7260		660							12. G320-5540	OS/VS1, OS/VS2	15H
-5796-PDN	APL Econometric Planning Language	EPLAN	2705		246							12. G320-5535	APL5V	11H
-5796-PFG	FORTRAN Conversion Aid from non-S/370		5500		250							. G320-8154	OS/VS, VM/CMS	11H
-5796-PFX	Forecasting & Time Series Analysis - APL		4620		420							12. G320-5644	APL5V, APL/CMS, VSAPL	11H
-5796-PGH	Event Driven Executive	EDX			825							12. G320-5677	OS/MVT, MVS	15H
5796-PGL	OS/VS1 Performance Tool	VS1PT	6600		398							. G320-5680	OS/VS1	15X
5796-PHN	SMF Job Data Compression Aid	JDCA	4290		187							. G320-5714	OS, OS/VS, MVS/XA	11X
5796-PHP	Storage Device Migration Aid	SDMA	6195		279							. G320-5714	OS, OS/VS, MVS/XA	11X
-5796-PHM	Statistical Library - APL		3165		240							. G320-5688	VSAPL	11H
5796-PHX	Application Development Facility	IMS/ADF	21290		831								Replaced by 5668-937	15X

Number	Program Title	Short Name	OTC	ILC	MLC	DSO	DSI	DSH	MLP	MHL	Mo	MoreInfo	Environment	TPLS
5796-PHY	Mass Storage Table Maintenance 3850	MSSTMP	7150		279							.G320-5742	OS/VS,MVS/XA	11X
-5796-PJA	CMS Exec Enhancements		1690		154							12.G320-5728	VM/CMS	11H
-5796-PJG	General Purpose Simulation System	GPSS-APL	2175		99							24.G320-5745	5748-API	11H
5796-PJK	DB Prototype II		4870		238							.G320-5754	IMS/VS VIR2	1SE
-5796-PJT	Statistics Library - Advanced	STATLIB2	2795		212							.G320-5811	VSAPL	11H
-5796-PJH	APL Interactive Training Course		1055		40							.G320-5812	5748-API	1EH
-5796-PJX	Mass Storage Trace SMF Correlation Aid		3010		137							24.G320-5810	OS/VS,MVS/XA	11H
5796-PKF	DL/I Space Management Utilities	SMU	2290		111							.G320-6072	DOS/VS DL/I	1SE
5796-PKK	Bulk Data Transfer		1580		60							.G320-6060	OS/VS2	1SH
-5796-PKP	APL/DI File Create Using PL/I		1020		93							12.G320-6066	5796-PJZ,-PKA,-PKB	1SH
5796-PKR	FORTRAN H Extended Optimization Enhanced		3780		169							.G320-9205	MVS,VM	1SH
5796-PKR/01	FORTRAN H - Extended Exponent Range	XEXP	1890									.6043,4		2SH
-5796-PKT	Query-By-Example	QBE	12560		491							.G320-6062	VM/CMS	1SX
-5796-PKW	APL Data Link to IMS for TSO		16060		627							.G320-6065	TSO with VSAPL	1SX
-5796-PKZ	APL Data Link to IMS for TSO		16060		627							.G320-6065	TSO with VSAPL	1SX
-5796-PLF	STAIRS/VS Training Course		3300		250							.G320-6078	IIS,IIPS	1EH
5796-PLH	Data Base Extracting and Restructuring	EXPRESS	16780		655							.G320-6160	IMS/VS PL/I	1SX
5796-PLK	RACF Codes Update System		1085		99							12.G320-6093	MVS and RACF	1SH
-5796-PLL	PL/I Language Construction Preprocessor		1690		154							12.G320-6096	OS/VS, VM/CMS	1SH
5796-PLN	A Departmental Reporting System II	ADRS-II	3490		196							.G320-6097	VSAPL	11X
5796-PLN/01	QBE to ADRS II Bridge Feature		1190		67							.G320-6097	4696,4687	11E
5796-PLN/02	ADRS II Business Graphics Feature		1940		108							.G320-6668	4697,4688	11E
5796-PLQ	VSE Performance Tool	VSE/PT	6300		285							.G320-6155	DOS/VS,DOS/VSE	1SE
-5796-PLR	Interactive Circuit Design		20850		948							24.G320-6164	VSAPL, APLSV	1SH
5796-PLH	JES3 Monitoring Facility II	JMF II	5080		231							.G320-6159	MVS,MVS/XA	1SE
-5796-PLX	Multivariate Time Series Analysis - APL		4840		440							12.G320-6169	VSAPL	11H
5796-PLY	Extended Editor and Full Screen Manager		1685		85							.G320-6168	VSAPL with VM, TSO	1SE
5796-PLZ	Source Compare Audit Utility	SUPER-C	2640		100							.G320-6163	VS1 VM/CMS MVS	11H
5796-PNA	Realtime Monitor	RTM	1000		50							.G320-6165	VM/CMS	1SE
-5796-PNB	APL Workspace Structure Analyzer		2055		187							12.G320-6170	VSAPL	1SH
5796-PNE	Document Composition Training	DCF	1320									.G320-6331	IIS,IIPS	1EH
5796-PNG	APL Data Interface - Version II	APL/DI II	10740		356							.G320-6348	VM/CMS with VSAPL	1SX
5796-PNJ	APL Data Interface II for TSO	APL/DI II	8915		338							.G320-6415	TSO	1SX
-5796-PNN	General Purpose Simulation System	GPSS	3585		163							24.G320-6398	VM/CMS,MVS+PL/I	1SH
-5796-PNP	Softcopy - a CADAM (R) Drawing Viewer		7630		347							.G320-6388	MVS,VM+3277GA	1SE
5796-PNQ	Pascal/VS Compiler		6300		247	5670		188				.G320-6387	VM/CMS,OS/VS,MVS/XA	1SE
5796-PNQ/01	Pascal/VS XT/370		554		11							.3025,3028		0SC
-5796-PNT	Diskette Copy		781		71							12.G320-6406	VM/CMS	1SH
-5796-PNN	Paging System - Extended Swap		1910		145							.G320-6403	MVS/SE MVS/SP	1SH
-5796-PNZ	Virtual Tape Librarian	VLIB	1104		46							.G320-6421	VM/CMS	1SH
5796-PPA	Panel 2 Line Art Program		2065		94							24.G320-6420	VM/370,OS/VS	1SH
5796-PPB	Network Monitor for VTAM Applications		1980		150							.G320-6628	OS/VS ACF/VTAM	1SH
-5796-PPE	MANYFONT Text Processing Type Faces	DCF	1450		132							12.G320-6634	DCF	1SH
5796-PPF	3101 VM Pass-Through Support	PVM/3101	170									.G320-6637	VM/SP,VM/BSEF,VM/SE	1SE
5796-PPH	Graphpak Full Screen Interface		858		65							.G320-6642	OS/VS,VM,VSAPL	1SH
-5796-PPJ	APL Performance Analysis Tools		1185		90							.G320-6643	TSO,CMS,VSOPC,CICS	1SH
5796-PPK	Cryptographic Information Protection	IPS		360	132							24.G320-6644	VM/CMS	1SX
-5796-PPL	Host Remote Node Entry System II		2815		150							.G320-6647	OS/VS1	1SE
5796-PPN	Data Set & Free Space Manager		1385		105							.G320-6654	MVS	1SX
-5796-PPR	Graphic Subroutine Package				90							24.G320-6657	VM/SP	1SX

Number	Program Title	Short Name	OTC	ILC	MLC	DSO	DSI	DSH	MLP	HML	Mo	MoreInfo	Environment	TPLS
-5796-PPH	APL Beginner's Course		770									.G320-9140	IIS, IIPS	15X
5796-PPZ	Library Congress Marc to Dortmund Dmarc	DOBIS	577									.G320-9132	DOS, VS1, MVS	15X
5796-PQA	McGill U System Interactive Computing V	MUSIC			624							.G320-6629	VM/CMS	15X
-5796-PQB	ICCF Library Scan		660		50							.G320-6630	DOS/VSE, ICCF	15H
5796-PQC	PCS Nursing Care Plans	PCS	8250	1500	575							.G320-6632	5796-ANY, ATZ	15X
-5796-PQF	Group Life Management System			2015	753						24.	.G320-6648	VM, DOS/VSE	15X
5796-PQN	VM/CMS to OS/VS1 Command Facility		1650	330	100							.G320-6655	VS1 under VM	15X
5796-PQR	Education Information - Registration	EIS		840	304						24.	.G320-6663	5796-BAZ	15X
5796-PQT	Education Info Syst - Section Developmt	EIS	8910									.G320-6665	5796-BAZ	15X
-5796-PQY	Accounting Principles Course			990	379						12.	.G320-6671	IIS	1EX
5796-PRJ	PCS Surgery Reporting	PCS	9130									.G320-9133	5796-ANY, ATZ	15X
5796-PRL	Circuit Board Design - Design Verify	CBDS	23400	2085	695	16380	1455	485				.G320-9175	5796-PRP	T15E
*5796-PRP	Circuit Board Design - Circuit Pack 4.1	CBDS	48600	8355	2785			58351945				.G320-9175	VM-5080/3250/3277GA	T15E
5796-PRX	Education Information System - Grading	EIS		960	276						24.	.G320-9139	5796-BAZ	15X
-5796-PRZ	GDDM Graphics Productivity Option		1320									.G320-9142	5748-XXH	15X
5796-PTB	Distribution Purchasing Management Syste			3400	977						24.	.G320-9143	DOS/VSE	15H
5796-PTD	PARIS- Receiving Checking & Distribution			995	287						36.	.G320-9146	5666-294	15X
5796-PTE	PARIS- Purchase Order & Merchandise			3095	891						36.	.G320-9145	5666-294	15X
5796-PTH	CADAM (R) - CAD Only Entry System		32760		799							.G320-6063	VM/SP	15E
5796-PTH/01	CADAM (R) - CAD/CAM Entry System		37800		922							.G320-6063	9680, 9681	15E
5796-PTH/02	CADAM (R) - Data Mgmt Entry System		14616		356							.G320-6063	6033, 6133	15E
5796-PTH/03	CADAM (R) - Hard Copy Entry System		12348		300							.G320-6063	6034, 6134	15E
5796-PTJ	Advanced Banking Terminal Support 3600	BTAP/CE	165									.G320-9147	5796-AXZ	15X
5796-PTN	ACP Programming Language/Transaction 1.1			5000	1435						24.	.G320-9148	MVS, VM+ACP/TPF	15H
-5796-PTP	EDX S/1 to 3660 Communications System		1210									.G320-9149	Series/1	15X
-5796-PTQ	Colorcopy		1375									.G320-9151	VM, MVS	15X
-5796-PTY	3800 Interactive Business Graphics		2420									.G320-9138	MVS	15X
5796-PMA	INTELLECT tm		42000		2245							.G320-9161	VSE+5748-XXJ+PL/I	25X
5796-PMB	INTELLECT tm Graphics		12375		663							.G320-9161	SQL/DS+CIICS/VSE	25H
5796-PMC	INTELLECT tm		57000		3050							.G320-9161	MVS+PL/I	25H
5796-PMD	INTELLECT tm Graphics Support		12375		663							.G320-9161	MVS+GDDM/PGF+5796PMC	25H
5796-PME	INTELLECT tm		57000		3050							.G320-9161	VM+PL/I	25H
5796-PMF	INTELLECT tm Graphics Support		12375		663							.G320-9161	VM+GDDM/PGF+5796-PME	25H
5796-PMG	OXYCALC (R)		8000									.G320-9167	VM, MVS+GDDM	15X
5796-PMH	CICS Application Development Archit V2		12100									.G320-9168	CICS	15H
5796-PHN	UCC TWO VSE to MVS Migration Aid	UCC2	49500									.G320-9190	VSE+MVS, XA	15H
5796-PHY	Admin System for Colleges/ Student Recds		7920									.G320-0194	System/38	15H
5796-PHZ	Admin System for Colleges/ Financial Aid		8800									.G320-0194	System/38	15H
5796-PXA	Admissions for Colleges & Universities		6820									.G320-0194	System/38	15H
5796-PXB	Development for Colleges & Universities		6820									.G320-0194	System/38	15H
-5796-PXC	Hotel / Lodging Application		550									.G320-0350	Reportpack	15X
-5796-PXD	Medical Fund Raising		385									.G320-0351	Reportpack	15X
-5796-PXE	Medical Record Deficiency & Location Trk		275									.G320-0352	Displaywriter	15X
5796-PXF	Remote Spooling Communication Subsystem	RSCS/SNA	3850									.G320-0323	VSE+VM+6670 line dvr	15X
5796-PXH	DPPX Materials/Purchasing and Reporting		99000									.G320-0353	DPPX+COBOL	15H
+5796-PXK	Land Ownership Tax Mapping	LOTMAP	10000									.G320-0359	Graphic Prog Genertr	25H
5796-PXN	Job Placement Match		6490									.G320-0329	VSE	15H
5796-PXP	Purchase Ordering & Mdse Info. System	PARIS	47300									.G320-9195	MVS+PARIS/Base	15H
5796-PXQ	Receiving, Checking & Distribution Systm	PARIS	20350									.G320-9146	MVS+PARIS/Base	15H
5796-PXT	Maintenance & Construction Costing Systm		11000									.G320-0338	System/34, 36+COBOL	15H

Number	Program Title	Short Name	OTC	ILC	MLC	DSO	DSI	DSM	HLP	MML	Mo	MoreInfo	Environment	TPLS
5796-PXM	Voter Registration / Jury Selection Syst		12100									.G320-0339	System/34,36+COBOL	15H
5796-PXX	Community Mental Health MIS	CMHMIS	7700									.G320-0330	System/36	15H
5796-PXY	TRANSLATOR Burroughs (R) COBOL 1800-1900		46200									.G320-9204	MVS+ISPF	05H
5796-PXZ	TRANSLATOR Honeywell (R) 200 COBOL		46200									.G320-9204	MVS+ISPF	05X
5796-PYA	TRANSLATOR Univac (R) 9000 COBOL		42000									.G320-9204	MVS+ISPF	05H
5796-PYH	INTELLECT tm		57000		3050							.G320-0161	VM+SQL/DS	25H
5796-PYJ	INTELLECT tm		12375		663							.G320-0161	VM+PL/I+GDDM+SQL/DS	25H
5796-PYK	Electronic Payment Sys Suppt/Check Procg	OSDOSCHECK	15400									.G320-0218	V51,MVS+3890	15H
5796-PYL	TRANSLATOR Burroughs COBOL 2000-4900		46200									.G320-9204	MVS+ISPF	05H
5796-PYN	TRANSLATOR Burroughs COBOL 5, 6 & 7000		46200									.G320-9204	MVS+ISPF	05H
5796-PYP	TRANSLATOR Honeywell 2000 COBOL		46200									.G320-9204	MVS+ISPF	05H
5796-PYQ	TRANSLATOR Univac (R) 1100 COBOL		46200									.G320-9204	MVS+ISPF	05H
5796-PYR	TRANSLATOR Univac (R) System 80 COBOL		46200									.G320-9204	MVS+ISPF	05H
5796-PYT	Video/VS		18700									.G320-9212	VSE+CICS	15H
5796-PYZ	Video/VS		24200									.G320-9212	MVS+CICS	15H
5796-PYZ	Funds Allocation System	FAS	27000									.G320-9222	MPSX+PL/I Transients	25H
5796-PZB	Voice / Text Messaging System	VTMS	10560		480							.G320-9231	VM	15H
5796-PZJ	System/38 to 5520 Communication BSC		2475									.G320-9236	5714-SS1+5611-SS1	15H
5796-PZK	RM/COBOL tm Compiler and Runtime		1900									.G320-0800	System/36	25H
5796-PZL	RM/COBOL tm Runtime		400									.G320-0800	System/36	25H
+5796-PZR	Patient Care System - Online Text	PCS	9000									.G320-0820	MVS,VSE+PCS	25H
5796-RBT	Yale ASCII Terminal Communications		3450		157						24	.GB30-1509	Series/1	15H
5796-REE	EDX PX5 Development Support Version 3				85						12	.GB30-1600	Series/1	15H
5796-RGG	Vehicle Maint - Parts Inventory		10640		968						12	.GB30-1680	System/38	15X
-5796-RHJ	EDX Multi-leaving RJF	MRJF	1485									.GB30-1762	Series/1	15X
-5796-RHR	Coll & Univ Business Sys- Student Aid		3960									.GB30-1747	System/34+5796-RHW	15X
-5796-RHT	Coll & Univ Business Sys- Financial Acct		6380									.GB30-1747	System/34	15X
-5796-RHM	Coll & Univ Business Sys- Student Record		6380									.GB30-1747	System/34	15X
-5796-RJL	Sales Analysis Enhancements	DMAS II	550									.GB30-1810	System/34	15X
5796-RJT	EDX Energy Management - Supermarkets		660									.GB30-1847	Series/1	15X
5796-RJT/01	EDX Interface Code ( Com-Trol ) FMS-2000		220									.GB30-1847	2019	15H
5796-RJT/02	EDX Energy Mgt - Optional Source Code		308									.	3014	15H
5796-RJT/03	EDX Energy Mgt - Source Code for Interfc		30									.	3015	15H
5796-RJT/04	EDX Energy Mgt - Pregon System		65									.	2031	15H
5796-RJT/05	EDX Energy Mgt - Pregon System		231									.	2032	15H
5796-RKJ	EDX Yale ASCII Communication Sys II				407	137					24	.GB30-1901	Series/1	15X
-5796-RNL	EDX Time, Attendance and Scheduling Syst		2300									.GB30-2098	Series/1	15X
5796-RNP	EDX Controlled Access System Software/2		9350									.G320-9156	Series/1	25X
-5796-RQD	College Business Sys Student Aid & Bill	CUBS	4400									.GB30-2181	System/36	15X
-5796-RQE	College Business Sys Financial Acctg	CUBS	7150									.GB30-2181	System/36	15X
-5796-RQF	College Business Sys Student Records	CUBS	7150									.GB30-2181	System/36	15X
5796-RRN	Fastdraft Drawing Mgt to MAPICS Bridge		2350									.	System/34+7361	15X
5796-TAT	IX Integrated WORD/MATH		12000									.G320-0814	IX/370	15H
5796-TAW	IX UltraCalc (R)		10000									.SH20-6938	IX/370	15H
5796-TAY	IX INFORMIX Embedded Query for COBOL		9000									.G320-0803	IX/COBOL	15H
5796-TAZ	IX COBOL		6000									.G320-0809	IX/370	15H
5796-TBA	IX BASIC		3500									.G320-0811	IX/370	15H
5796-TBB	IX Pascal		4800									.G320-0810	IX/370	15H
5796-TBC	IX ProChart		16000									.G320-0816	IX/370	15H
5796-TBD	IX INFORMIX Embedded Query for C		9000									.G320-0803	IX/INFORMIX	15H

Number	Program Title	Short Name	OTC	ILC	MLC	DSO	DSI	DSH	HLP	MML	Mo	MoreInfo	Environment	TPLS
5796-TBE	IX INFORMIX tm		14000									.G320-0803	IX/370	15H
+5796-TBH	Patient Care - Medical Records&Concr	PCS	90000									.G320-0824	5796-BCE,BCF and BBF	25H
+5796-TBN	CAEDS (R) - CATIA (R) Geometry Transform		4250									.G320-0900	MVS, VM	15H
+5796-TBP	CADAM (R) DRAWING Viewing Program - Host		1250									.G320-0898	VM,MVS+5796-TBQ	15H
+5796-TBQ	CADAM (R) DRAWING Viewing on PC		750									.G320-0898	5796-TBP+EGA+8087	05Y
5796-TBR	RM/COBOL tm Runtime		250									.G320-0818	System/36 PC	25H
5796-TBT	RM/COBOL tm Compiler and Runtime		1250									.G320-0818	System/36 PC	25S
+5796-TBH	DPPX Report/Query		1750			1500						.G320-9505	DPS+DBTM	15H
+5796-TBY	Projected/Actual Payment Tracking	Career Sch	1500									.G320-9506	System/36	15I
5796-TBZ	Cross System Product-Data Base 2 Interfa		6000									.GH20-9241	CSP+DB2	15H
+5796-TCA	Student Financial Tracking	Career Sch	6750									.G320-9506	System/36	15I
+5796-TCB	General Ledger	Career Sch	3000									.G320-9506	System/36	15I
+5796-TCC	Graduate Placement	Career Sch	2250									.G320-9506	System/36	15I
+5796-TCD	Student Recruitment	Career Sch	6000									.G320-9506	System/36	15I
+5796-TCF	Student Accounts Payable	Career Sch	1500									.G320-9506	System/36	15I
+5796-TCG	Guaranteed Student Loan/Pell Tracking	Career Sch	1500									.G320-9506	System/36	15I
+5796-TCH	Vendor Accounts Payable	Career Sch	1500									.G320-9506	System/36	15I
+5796-TCJ	Registration, Attendance & Grading	Career Sch	6750									.G320-9506	System/36	15I
+5796-TCL	PARIS/Invoice Processing System		40000									.G320-9487	PARIS/Base+MVS	25H
+5796-TCN	PARIS/Invoice Processing System		28000									.G320-9487	PARIS/Base+VSE	25H
-5796-ZAP	Construction Information - Job Costing		1705									.GB30-1728	Sys/23 Datamaster	11H
-5796-ZAQ	Construction Information - Payroll		1925									.GB30-1728	Sys/23 Datamaster	11H
-5796-ZAR	Construction Information - Accts Payable		1815									.GB30-1728	Sys/23 Datamaster	11H
-5796-ZAT	Construction Information - Genl Ledger		1705									.GB30-1728	Sys/23 Datamaster	11H
5796-ZBH/01	Attorneys Info System - 5247 Disk Support		750									.GB30-2029	3022	11X
5796-ZBN	BASIC Self-Study Course		550									.GB30-1914	Sys/23 Datamaster	15X
-5796-ZDA	Logicalc (R)		214									.GB30-1976	5608-MS1	15X
-5796-ZDB	Logiquet III (R)		605									.GB30-1978	5608-MS1	15X
5796-ZDC	EDX Subscript		2100									.GB30-1909	Series/1 EDX	15X
5796-ZDE	RPS Data Entry System	SIDES	6600		300							.GB30-1983	Series/1	15X
5796-ZDF	EDX Data Entry	SIDES	6600		300							.GB30-1983	Series/1	15X
-5796-ZDN	Retail Inventory - Planning & Mdse Syst			10990	2195						12.	.GB30-2042	System/34	15X
-5796-ZDM	Construction Info System - Payroll		2420									.GB30-2082	Datamaster+5247	15X
-5796-ZDX	Construction Info System - Accts Payable		2310									.GB30-2082	Datamaster+5247	15X
-5796-ZDY	Construction Info System - Job Costing		2145									.GB30-2082	Datamaster+5247	15X
-5796-ZDZ	Construction Info System - General Ledgr		2145									.GB30-2082	Datamaster+5247	15X
5796-ZEJ	Auto Dealership Mgmt - Accounting		11000									.GB30-2107	System/34	15X
-5796-ZEL	Financial Desk Calculator		352									.GB30-2093	System/38	15X
-5796-ZEY	Travel Agency Management and Accounting		11000			500						.GB30-2305	Sys/23 Datamaster	15H
5796-ZFA	Retail Inventory Plan & Mdse System			9995	3795						24.	.GB30-2207	System/38	15X
-5796-ZFB	=MONEY=TRACK=		495									.GB30-2313	Displaywriter+UCSD-P	15X
-5796-ZFD	Financial Planning and Modeling		2970									.GB30-2249	System/38	15X
5796-ZFG	ACS On-Line System tm		49500									.GB30-2258	System/36	15X
5796-ZFH	Integrated Production Control System	IPCS	19250									.GB30-2261	System/36	15X
-5796-ZFL	Financial Management System		13200									.GB30-2276	System/34	15X
-5796-ZFN	Student Administration System		14300									.GB30-2276	System/34	15X
-5796-ZFP	Employee Management System		11000									.GB30-2276	System/34	15X
-5796-ZFQ	Inventory Management System		7150									.GB30-2276	System/34	15X
5796-ZFY	School - Financial Management	CIMS	15950									.GB30-2268	System/36	15H
5796-ZFZ	School - Student Administration System	CIMS	13200									.GB30-2268	System/36	15H



Number	Program Title	Short Name	QTC	ILC	MLC	DSO	DSI	DSM	MLP	MHL	Mo	MoreInfo	Environment	TPLS
5796-ZGA	School - Employee Management System	CIMS	13200									.GB30-2268	5796-ZFY	1SH
5796-ZGB	School - Fixed Asset Inventory System	CIMS	3960									.GB30-2268	5796-ZFY	1SH
5796-ZGC	School - Student Attendance System	CIMS	3960									.GB30-2268	5796-ZFY	1SH
5796-ZGD	School - Warehouse Inventory System	CIMS	5280									.GB30-2268	5796-ZFY	1SH
5796-ZGF	School - Library Management System	CIMS	1980									.GB30-2268	System/36	1SH
-5796-ZGN	Financial Planning and Modeling		2530									.GB30-2251	System/36	1SX
5796-ZGT	Retail Inventory Planning & Mds	RIPMS	66000									.GB30-2319	System/36	1SX
5796-ZGM	Financial Desk Calculator		319									.GB30-2281	System/36	1SX
5796-ZHK	ACS On-Line / IPCS Integration		3300									.GB30-2258	System/36	1SX
-5796-ZHT	Financial Planning and Report Generating		385									.GB30-2340	UCSD p-System tm R/D	1SX
5796-ZHZ	Membership Data Base - Trade Assn		7700									.BG30-2352	System/36	1SX
5796-ZJA	Dues Assessment - Trade Assn		3850									.GB30-2352	5796-ZHZ	1SX
5796-ZJB	Fund Raising/Development - Trade Assn		3300									.GB30-2352	5796-ZHZ	1SH
5796-ZJC	Subscription Fulfillment Trade Assn		3850									.BG30-2352	5796-ZHZ	1SX
5796-ZJD	Special Events - Trade Assn		3300									.GB30-2352	5796-ZHZ	1SX
5796-ZJE	Membership Data Base		7700									.GB30-2401	System/36	1SX
5796-ZJF	Membership Dues Assessment		3850									.GB30-2401	5796-ZJE	0SX
5796-ZJG	Membership Fund Raising/Development		3300									.GB30-2401	5796-ZJF	1SX
5796-ZJH	Membership Subscription Fulfillment		3850									.GB30-2401	5796-ZJE	1SX
5796-ZJJ	Membership Special Events		3300									.GB30-2401	5796-ZJE	1SX
5796-ZKA	Automotive Release/Shipping Control Syst		17600									.GB30-2480	System/36	1SH
5796-ZKB	Order Management System		71500									.GB30-2466	System/36 PC	1SX
5796-ZNA	Schools Financial Accounting System		8000									.GB30-6002	System/36 PC	1SH
5796-ZNB	Schools Payroll System		8000									.GB30-6002	Financial Acctg Sys	1SH
5796-ZNC	Schools Inventory Management System		3000									.GB30-6002	Financial Acctg Syst	1SH
5796-ZND	Student Management System		3000									.GB30-6002	System/36 PC	1SH
5796-ZNE	Student Grading System		2500									.GB30-6002	Student Mgt System	1SH
5796-ZNF	Student Scheduling System		5000									.GB30-6002	Student Mgt System	1SH
5796-ZNG	Student Optical Scanning System		1500									.GB30-6002	Student Mgt System	1SH
5796-ZNH	Student Attendance Management System		3600									.GB30-6002	Student Mgt System	1SH
5796-ZNJ	Student Evaluation System		3000									.GB30-6002	Student Mgt System	1SH
+5796-ZNX	Auto Dealer - Accounting		13600									.GB30-6013	System/36	1SH
+5796-ZNX/01	Auto Dealer Acctg, Upgr from 5796-ZGX		1875									.GB30-6013	System/36	1SH
+5796-ZNY	Auto Dealer - Parts Invoicing		5500									.GB30-6013	System/36	1SH
+5796-ZNY/01	Auto Dealer, Parts Inv, Upgr from 5796ZGY		1100									.GB30-6013	System/36	1SH
+5796-ZNZ	Auto Dealer - Parts Inventory		11800									.GB30-6013	System/36	1SH
+5796-ZNZ/01	Auto Dealer, Parts Inv, Upg from 5796ZGZ		1690									.GB30-6013	System/36	1SH
+5796-ZPA	Auto Dealer - Service Merchandising		8600									.GB30-6013	System/36	1SH
+5796-ZPA/01	Auto Dealer, Service, Upg from 5796-ZHA		50									.GB30-6013	System/36	1SH
+5796-ZPB	Auto Dealer - Leasing		5300									.GB30-6013	System/36	1SH
+5796-ZPB/01	Auto Dealer, Leasing, Upg from 5796-ZHB		50									.GB30-6013	System/36	1SH
+5796-ZPC	Auto Dealer - Management Reports		4100									.GB30-6013	System/36	1SH
+5796-ZPC/01	Auto Dealer, Mgt Rpt, Upg from 5796-ZHC		50									.GB30-6013	System/36	1SH
+5796-ZPD	Auto Dealer - Contract Preparation		3550									.GB30-6013	System/36	1SH
+5796-ZPD/01	Auto Dealer, Cont Prep, Upg from 5796ZHD		50									.GB30-6013	System/36	1SH
+5796-ZPE	Auto Dealer - Customer Follow-up		3000									.GB30-6013	System/36	1SH
+5796-ZPE/01	Auto Dealer, Cust, Upg from 5796-ZHE		50									.GB30-6013	System/36	1SH
+5796-ZPF	Auto Dealer - Traffic Control		1200									.GB30-6013	System/36	1SH
+5796-ZPF/01	Auto Dealer, Traffic, Upg from 5796-ZHF		50									.GB30-6013	System/36	1SH
+5796-ZPG	Auto Dealer - Vehicle Control		8600									.GB30-6013	System/36	1SH

Number	Program Title	Short Name	OTC	ILC	MLC	BSO	DSI	DSM	MLP	MML	Mo	MoreInfo	Environment	TPLS
+5796-ZPG/01	Auto Dealer, Veh Ctl, Upg from 5796-ZHG		50									.GB30-6013	System/36	15H
+5796-ZPK	Time & Material/Service Billing	CMAS	3500									.GB30-6016	5727-M6X+M6A	15H
+5796-ZPP	Construction Inventory	CMAS	3000									.GB30-6016	5727-M6X+M66	15H
5796-001	CPCS Installed User Educational Guide		2700									0320-5807	5734-F11	05H
5796-002	DOSCHECK Installed User Education Guide		1700									0320-6086	5746-F12	05H
-5798-AJK	Lease vs Purchase Analysis		407		37						12	.GB21-0541	D05/05	1IH
-5798-APG	CDBOL Conversion Aid from NCR (R)Century		2315									.GB21-0839	D05/05	0IH
-5798-APH	CDBOL Conversion from Burroughs (R) 2500		2435									.GB21-0836	D05/05	0IH
5798-ARD	DIIT0		858									.GB21-0857	05,MVS/XA	1IH
-5798-ARN	DIIT0		852		81							.GB21-2190	D05	1IH
5798-ARN/01	DIIT0 Enhancements		150									.GB21-2190	9500	1IH
-5798-ATB	Data Compression / Expansion		106									.GB21-0938	D05/05	05H
-5798-AWB	Alpha Search Inquiry - IMS Interface		8105		737						12	.GB21-0987	05	1IH
-5798-AWH	DASD Device Independence Open	DI-Open	1080		49							.GB21-1002	D05/VS	0IH
5798-AWH/01	DASD DI-Open Enhancement		150									.GB21-1002	9534	0IH
-5798-AXC	CICS/3270 Simulator		781		71							.GB21-1002	CICS/05/D05/VS	0IH
5798-AYF	TSO Command Processor		1185									.GB21-1122	05/VS2,MVS/XA	1IH
-5798-AYP	Control & Accounting Programs		561		51						12	.GB21-1110	VM/CMS	15H
5798-BCN	MICR Document Fine Sort		2210		201							.GB21-1327	D05/VS	1IH
5798-BDN	Sort		1025									.GB21-1376	VM/CMS	15H
5798-BDN/01	Sort Extensions		nc									.GB21-1376	4606	N15H
5798-BDN/02	CMS Sort Plus Extensions XT/370		132									.	3037	05C
5798-BDY	3890 Offline Sort Enhancements		3140									.GB21-1383	05/VS	15H
5798-CAF/01	DIIT0 Enhancements		150									.GB21-2190	9502	1IH
5798-CBG	3890 OS/VS Programming Testing Aid		3480									.GB21-1444	D05/VS OS/VS D05/VSE	15H
5798-CBG/01	3890 Programming Test Aid Enhancement				40							.GB21-1444	9516	15H
5798-CBT	PDQ7 V2				2075							.GB21-1465	05/VS+FORTRAN	15H
5798-CDA	DIIT0 Extensions		1320									.GB21-1549	05	1IH
5798-CDB	1400 Compatibility Access Routine		500									.GB21-1546	D05/VS	1IH
5798-CFD	3890 Offline Sort		1635									.GB21-1662	D05/VS+5798-BDC	15H
5798-CFD/01	3890 D05/VSE Offline Fine Sort II				88						12	.GB21-1662	9560	15H
-5798-CFJ	Alpha Search Inquiry Sys Online Update		4840		440						12	.GB21-1677	CICS/D05/05/VS,CMS	15H
5798-CFP	CICS Performance Analyzer II	PA II	2100		83							.GB21-1862	CICS/VS	15E
5798-CFT	Source Program Maintenance Online	SPMOL	5355		226							.GB21-1696	CICS/VS	15E
5798-CFT/01	SPMOL with Auditing and Archiving		1575		70							.GB21-1696	6005,6050	15E
-5798-CFX	Financial Planning System	FPS	4770		434						12	.GB21-1705	VM/CMS with APL/CMS	1IH
5798-CHJ	IMS Monitor Summary & System Analysis II IMSASAP		3675		165							.GB21-1792	IMS/VS+GPAP	1IE
-5798-CHZ	3704/5 EP Trace Editor Program		660		60						12	.GB21-1822	D05/VS,05/VS,MVS/XA	1IH
-5798-CJG	Video Reverse Extract Offline Data Entry		1690		150						12	.GB21-1843	D05/VS VIDEO/370	15H
-5798-CJP	Video Reverse Extract Offline Data Entry		1690		154						12	.GB21-1843	05/VS VIDEO/370	15H
-5798-CJX	CICS/VS Dump Reading Program		1210		110							.GB21-1874	05/VS	15H
5798-CKJ	HASP-JES2 Spool Transfer Program		3165		480							.GB21-1903	05/MFT/MVT/SVS/MVS	0IH
-5798-CKQ	Cashier Assignment System		3025		275						12	.GB21-1921	D05/VS	1IH
-5798-CKR	Boldface Print Program for the 3800		1745		159						12	.GB21-1942	05/VS2	15H
5798-CKT	TSO Introduction		3375		256							.GB21-1924	IIS,IIPS	1EH
-5798-CKY	IMS/VS Message Format Services Training		3190		242							.GB21-1933	IIS,IIPS	1EH
5798-CLD	CPCS Online Adjustments - II		818								12	.GB21-1948	05/VS CPCS	15H
5798-CLD/01	CPCS Online Adjustments - II Enhanced				208							.GB21-1948	9562	15E
-5798-CLF	Structured Programming Macros		660		60						12	.GB21-1957	D05/VS, 05/VS,VM	15H
5798-CLW	TSO Programming Control Facility II	PCF II	1350		52							.GB21-1987	MVS	15E

Number	Program Title	Short Name	OTC	ILC	MLC	DSO	DSI	DSH	HLP	HML	Mo	MoreInfo	Environment	TPLS
-5798-CNC	Virtual Storage Analysis	IMVSAP	726		66							12.GB21-2002	OS/VS,MVS/XA+IMS/VS	15H
-5798-CNH	Autocoder to COBOL Conversion Aid Program	ACCAP	1230									.GB21-2022	VM/CMS	01H
-5798-CNK	VIDEO/370, VTAM Interface to		2055		187							12.GB21-2025	OS/VS	15H
-5798-CPF	TSO Data-set Print		5040									.GB21-2069	Replaced by 5785-BAC	15H
-5798-CPFF/01	TSO Data-set Print VTAM, XA Extensions		957		76							12.GB21-2069	4607,4598	15H
-5798-CPP	SMF Problem Program Activity Report		968		88							12.GB21-2089	MVS	11H
-5798-CPR	General Performance Analysis Reporting	GPAP	1710		83							.GB21-2091	OS/VS1, MVS, SVS	11E
-5798-CPY/01	File Cabinet Option Wide-Screen Feature				250							24.GB21-2103	6013,6014	15H
-5798-CQB	3760 Batch Data Transfer under CICS/VS		2110		192							12.GB21-2112	EXTM,TCAM,VTAM	15H
-5798-CQG	HDAM Sequential Random Generator		2320									.GB21-2126	OS/VS2,MVS/XA	01H
-5798-CQJ	S/3 OCL to DOS/VS JCL Conversion Aid		660									.GB21-2130	DOS/VS	05H
-5798-CQP	IMS Performance Analysis & Reporting	IMSPARS	4155		203							.GB21-2139	IMS/VS V1,5798-CPR	11E
-5798-CQQ	Generalized Trace Facility Analysis	GTFFPARS	2310		94							.GB21-2142	OS/VS, 5798-CPR	11E
-5798-CQX	3890 Cycle Sort		4925		448							12.GB21-2165	DOS/VS, 5798-BDC	15H
-5798-CRB	Business Graphing on the IBM 3800		2310		210							12.GB21-2167	OS/VS	15H
-5798-CRC	3890 Online Fine Sort - CPCS		10890		990							12.GB21-2170	OS/VS	15H
-5798-CRE	Secondary Operator Facility		1005									.GB21-2179	OS/VS2,MVS/XA	15H
-5798-CRH	ATMS II Multiple Fonts for the 3800		2110		192							12.GB21-2184	OS/VS+ICICS/VS	15H
-5798-CRJ	PL/I Programming Training		3245		246							.GB21-2187	IIS,IIPS	1EH
-5798-CTD	DASD Seek Simulator		1650									.GB21-2217	OS/VS	11H
-5798-CTE	Systems Library Subscription Service Mgt	SLSS	814		74							12.GB21-2222	OS/VS	11H
-5798-CTJ	3800 Interactive Character Design		1990		181							12.GB21-2191	OS/VS, TSO	11H
-5798-CTL	VTAM Configuration and Generation Aid		1375		275							06.GB21-2233	DOS/VS	01H
-5798-CTW	VTAM Performance Analysis & Reporting	VTAMPARS	1625		74							.GB21-2246	OS/VS, 5798-CPR	11H
-5798-CWE	Online Reject/Reentry Testing Aid		1350		123							12.GB21-2264	OS/VS	15H
-5798-CWF	Time Initiated Input Facility	TIIF	2745		134							.GB21-2255	IMS/VS V1	15E
-5798-CWR	3890 Online Fine Sort		10210		929							12.GB21-2276	DOS/VS DOS/VSE Rel	15H
-5798-CWV	3800 Forms Utility		2420		220							12.GB21-2287	OS/VS, PL/I	15H
-5798-CWX	Graphic Online Diagram Display	GOLD	21780		990							24.G320-6059	MVS/TSO VM/CMS	15H
-5798-CWZ	3276 / 3278 Operator Training Course		2115									.GB21-2290	IIS,IIPS	1EH
-5798-CXN	HDAM Randomizer Generator Extensions		1140		104							12.GB21-2347	5798-CQG OS/VS	11H
-5798-CXP	Financial Planning System	FPS	4645									.GB21-2335	MVS/VSAPL	15H
-5798-CXY	Print Load Analyzer		1085		99							12.GB21-2355	OS/VS	11H
-5798-CYB	Financial Information System Online	BACIS/FIS	10390		409							.GB21-2367	DOS/VS/VSE+5798-CYC	15X
-5798-CYC	Financial Information System	BACIS/FIS	24880		984							.GB21-2364	DOS/VS/VSE	15X
-5798-CYF	RAF Productivity Aid		2745		208							.GB21-2370	MVS,MVS/XA	15H
-5798-CYJ	DL/I Fast Scan Utility for DOS/VS		2570									.GB21-2380	DOS/VS DL/I	11H
-5798-CYH	Capacity Planning Extended	CPX	4410		189							.GB21-2391	OS/VS,5798-CPR	11X
-5798-CZE	DPCX 3790 Distributed Entry Query		2505									.GB21-2431	DOS/VSE OS/VS DOSF	15H
-5798-CZE/01	DPCX 3790 - Text Enhancement Feature				40							12.GB21-2431	6015	15H
-5798-CZG	3800 Character Extensions		330									.GB21-2429	OS/VS DOS/VS	05H
-5798-CZK	Simultaneous Printing 3650 Transactions		297		27							12.GB21-2469	DOS/VS	15H
-5798-CZM	Installation Management Documentation		1085		99							12.GB21-2481	OS/VS	11H
-5798-CZV	Network Performance Analysis & Reports	NETPARS	1890		77							.GB21-2487	OS/VS,5798CPR	15E
-5798-DAA	Generalized Performance Analysis Report	GPAP/DOS	1365		66							.GB21-2491	DOS/VSE	15E
-5798-DAB	CICS Performance Analysis Reporting	CICSPARS	1785		94							.GB21-2494	OS/VS, DOS/VSE	15E
-5798-DAC	3800 Format II		847		77							12.GB21-2496	OS/VS	15H
-5798-DAE	Cross Domain Network Data Transfer		1320									.GB21-2498	Replaced by 5668-932	15H
-5798-DAG	3277 Graphics Attachment Storage Tube		616		56							12.GB21-2503	MVS,MVS/XA,VM/CMS	15H
-5798-DAH/01	3630 Plant Monitoring Enhancements				75							24.GB21-2506	9566	15H

Number	Program Title	Short Name	OTC	ILC	HLC	DSO	DSI	DSH	HLP	HML	Mo	ForeInfo	Environment	TPLS
5798-DAJ	OS/VS JCL, Learning to Code		1250									.GB21-2508	IIS,IIPS	1EH
5798-DAN	VSAM and Access Method Services Course	VSAM AMS	2055									.GB21-2518	IIS,IIPS	1EH
5798-DAT	Account Network Management Program	ANMP	5880		267							.GB21-2521	CICS/DOS/VS	1IX
-5798-DBF	Application Enabling Facility	AEF	2790		127							.GB21-2551	VM/CMS	1SC
-5798-DBG	ISAM to IMS/DB Bridge		1815		165							12.GB21-2947	OS/VS	1SH
-5798-DBJ	CICS/VS Operations Support Package		484		44							12.GB21-2554	DOS/VSE,DOS,VS,OS/VS	1SH
5798-DBL	3890 On-Us Editing		2540		231							12.GB21-2559	DOS/VSE	1SH
-5798-DBQ	Automated Event Control		660		60							12.GB21-2561	CICS/VS	1SH
-5798-DBX	BASIC VS Programming		3760		285							.GB21-2574	IIS,IIPS	1EH
-5798-DBZ	VTAM Level Selector		1890		78							.GB21-2580	OS/VS-MVS	1SX
-5798-DCA	Distributed Data Transfer - Host		1210		110							12.GB21-2594	OS/VS,DOS+5798-DCF	1SH
-5798-DCE	3277 Graphics Attachment Plotter Tablet		561		51							12.GB21-2598	TSO,VM 85799-AXX/-M	1SH
-5798-DCF	DPCX Distributed Data Transfer		262		22							12.GB21-2594	5798-DCA	1SH
-5798-DCG	File Cabinet Option / VTAM	FCO/VTAM	15960		732							.GB21-2604	MVS/SP,MVS/XA	1SH
5798-DCH	LDMS Normal Value / Delta Checking	LDMS II	4715		429							12.GB21-2602	5796-APB,5796-AMC	1SH
-5798-DCJ	IMS/VS Data Compression Facility		1120									.GB21-2612	OS/VS,MVS/XA	1SH
-5798-DCK	Data set Migration and Planning Aid		1745		159							12.GB21-2614	OS/VS,MVS/XA	1SH
5798-DCN	Financial Planning System II		6110		263							.GB21-2622	VM	1SX
-5798-DCP	DPCX Outpatient Billing System		3200		291							12.GB21-2626	DPCX	1SH
5798-DCQ	COPICS Shop Order Release II		11490		372							.GB21-2648	DOS/VSE,OS/VS DL/I	1SE
5798-DCR	COPICS Inventory Planning Forecasting II		8575		259							.GB21-2650	DOS/VSE,OS/VS DL/I	1SE
-5798-DCN	3730 Distributed Office Support for 6670		1505		137							12.GB21-2631	CICS/OS/VS	1SH
5798-DCX	CICS/VS Command Level Programming Course		1415									.GB21-2628	IIS,IIPS	1EX
5798-DDC	1419 Proof-of-Deposit MICR Capture		3630		330							12.GB21-2668	DOS/VSE	1SH
-5798-DDD	DPPX Payroll Management System		3630		330							12.GB21-2666	DPPX/BASE	1SH
-5798-DDJ	DPPX COBOL Application Cross Reference		242		22							12.GB21-2672	DPPX	1SH
-5798-DDL	DPCX Accounting System / Departmental		1330		121							12.GB21-2688	DMS/3790,DPCX	1SH
5798-DDN	DPPX Mortgage Banking System		6225		566							12.GB21-2691	DPPX/BASE	1SH
-5798-DDQ	3650 Retail Transaction Staging		2595		256							12.GB21-2703	OS/VS,VSE 5748-D14	1SH
5798-DDR	Inventory Forecasting & Replenishment II	INFOREM II	15110		687							24.GB21-2695	OS/VS,DOS/VSE	1SH
5798-DDT	INFOREM II Allocation		13550		616							24.GB21-2695	OS/VS,DOS/VSE	1SH
-5798-DDN	Application Development Facility Course	IMS/ADF	1650		125							12.GB21-2712	5668-012+5746-XX6	1SH
5798-DDW/01	ADF - Training Feature		700									.GB21-2712	6020-6023	1SX
-5798-DDX	ICCF/VSE Introduction		660		60							12.GB21-2709	IIS,IIPS	1EH
-5798-DEB	3279 Executive Presentation System		4550		345							.GB21-2725	VM,TSO + GDDM	1SH
-5798-DEC	DMS/CICS/VS OnLine Debugging Aid		660									.GB21-2727	OS/VS,DOS/VSE	1SH
5798-DED	DPPX Power Plant Maintenance		2055		187							12.GB21-2729	DMS/DPPX	1SH
-5798-DEE	STAIRS to ATMS Transfer Extended		1265		115							12.GB21-2731	CICS/OS-DOS/VS	1SH
-5798-DEG	IMS/VS Master Terminal Operator Training		990									.GB21-2736	IIS,IIPS	1EH
5798-DEJ	DPPX 3640 Special Support Subroutines		484		44							12.GB21-2719	8100/DPPX-COBOL	1SH
5798-DEL	Virtual Storage Monitor		792									.GB21-2721	MVS,5740-XY4	1SH
-5798-DEN	Virtual System Time Shared I/O for VSAPL VSTSIO				675	241						12.GB21-2741	TSO,VSAPL	1SX
-5798-DEQ	Data Dictionary Language Preprocessor		660		60							12.GB21-2758	OS/VS	1SH
5798-DER/01	Data Dictionary Utilities Enhanced		960									.GB21-2746	4601	1SX
5798-DET	INFOREM II Online Processor		15480		704							24.GB21-2695	OS/VS,DOS/VSE	1SH
5798-DEW	Credit / Check Authorization				7875	3015						12.GB21-2748	MVS,DOS/VSE,CICS/VS	1SX
5798-DEX/01	CADAM (R) Installation Productivity - OS		3400									GB21-2753	6018,6019	1SX
5798-DEY	MVS Operator Problem Determination		836									.GB21-2760	IIS,IIPS	1EH
-5798-DFA	3033 AP/MP Operator Trainings		1385									.GB21-2769	IIS,IIPS	1EH
-5798-DFC	ADRS-II Introduction		1385		105							.GB21-2780	IIS,IIPS	1EH

Number	Program Title	Short Name	OTC	ILC	MLC	DSO	DSI	DSM	HLP	HML	Mo	MoreInfo	Environment	TPLS
5798-DFE	VTAM Performance & Analysis Reporting II	VTAMPARS 2	5570	504	198							.GB21-2786	Succeeded by NPM	15E
5798-DFE	VTAM Performance & Analysis Reporting II	VTAMPARS 2	5570	504	198							.GB21-2786	Succeeded by NPM	15E
5798-DFE	VTAM Performance & Analysis Reporting II	VTAMPARS 2	5570	504	198							.GB21-2802	DPPX	15X
5798-DFG	DPPX Plant Floor Collect & Lot Tracking		3750		341						12	.GB21-2881	DPPX+3640	15H
5798-DFH	FORTRAN Utilities for VM/370-III(New lic		2400									.GB21-2796	VM	15X
5798-DFH/01	FORTRAN Util Current licensees		450									.GB21-2796	9587.8	B15X
5798-DFK	VIDEO/370 VSE/VSAM Support		1120									.GB21-2800	5736-RC1/02	15H
5798-DFP	ACF Network Generation Aid		1045									.GB21-2809	MVS, DOS/VSE	15X
5798-DFQ	IMS DC Programming Course II		1540									.GB21-2813	IIS, IIPS	1EX
5798-DFR	COPICS Plant Monitoring - Host Interface		5705		173							.GB21-2842	OS/VSE VSE 5798-DFE	15E
5798-DFE	COPICS Plant Monitoring & Control - 8100		21500		653							.GB21-2842	DPPX 5798-DFR	15E
5798-DFW	3800 Side-by-Side Page Processor		781		71						12	.GB21-2816	OS/VSE	15H
5798-DFX	Using TSO Effectively II		1090									.GB21-2818	IIS, IIPS	1EX
5798-DFY	Word Processor File Conversion		915									.GB21-2821	OS/VSE, DOS/VSE	05H
5798-DFZ	COBOL Interactive Debug Training II		1090									.GB21-2825	IIS, IIPS	1EX
5798-DGB	Tape Automation - Production Environment		2520									.GB21-2828	DOS/VSE	15H
5798-DGG	DPPX File Print Utility		297		27						12	.GB21-2840	DPPX	15H
5798-DGJ	CMS Fundamentals II		1980	360	120							.GB21-2855	IIS, IIPS	1EX
5798-DGK	TCAM Subtask Trace Analysis Report		539		49						12	.GB21-2860	OS/VSE, ACF/TCAM	15H
5798-DGN	Spool Display and Search Facility	SDSF	1650									.GB21-2865	MVS, MVS/XA	15H
5798-DGP	Presentation Graphics, Three-Dimensional		1910									.GB21-2867	VM/CMS, MVS, GDDM	15H
5798-DGR	DL/I Basic Programming Course II		2860									.GB21-2872	IIS, IIPS	1EX
5798-DGT	Network Interface Module		539		49						12	.GB21-2875	OS/VSE, ACF/VTAM	15H
5798-DGY	3650 Application Development Debug		847		77						12	.GB21-2883	OS/VSE, DOS/VSE	15H
5798-DGZ	DPPX COBOL Application Integrity Monitor		1100									.GB21-2885	DPPX	15X
5798-DHA	Managing Appl Development - Plan & Track	MADP/PATS	1055									.GB21-2887	OS/VSE, VSE	15X
5798-DHB	DPCX Automated Administration Activities		1030									.GB21-2889	DPCX	15X
5798-DHC	DPPX Automated Administrative Activities		1070									.GB21-3077	DPPX	15X
5798-DHD	VIDEO/370 Reverse Extract II		946	295	86						12	.GB21-2893	DOS/VSE	15X
5798-DHF	ACF/VTAM Buffer Selection Aid		742									.GB21-2900	MVS, DOS/VSE	15X
5798-DHG	Data Dictionary Language Preprocessor		808									.GB21-2902	DOS/VSE, DL/I	15X
5798-DHK	Automated Teller System			540	207						12	.GB21-2909	3600 4700	15X
5798-DHL	CICS/VS Online Dataset Recovery Facility		737									.GB21-2911	CICS/DOS(non-DL/I)	15X
5798-DHN	APL - Based Products Interfacing Course		1305									.GB21-2914	IIS, IIPS	1EX
5798-DHQ	Data Dictionary Utilities		715									.GB21-2920	DOS/VSE, DL/I	15X
5798-DHR	Network Interface Module		660									.GB21-2922	DOS/VSE, VTAM	15X
5798-DHH	DPPX Spool Output Transcription		660									.GB21-2926	DPPX	15X
5798-DHX	DPCX Program & Panel Data Set Utility		368									.GB21-2928	MVS, DOS/VSE	05X
5798-DJE	DL/I Advanced Programming Course II		2860									.GB21-2937	IIS, IIPS	1EX
5798-DJG	DPCX Cardfile Facility			300	115						12	.GB21-2942	DPCX, MVS, DOS/VSE	15X
5798-DJJ	DPCX Relative Sequential Data Sets File		346									.GB21-2949	DPCX	15X
5798-DJL	DPPX Data Compression - Host		1265									.GB21-2953	MVS + 5798-DJH	15X
5798-DJN	DPPX Data Compression - Controller		330									.GB21-3007	DPPX + 5798-DJL	15X
5798-DJQ	US Geographic Demographic System		2365									.GB21-3020	VM/CMS, MVS/TSO, GDDM	15X
5798-DJR	ICCF Automated Library Manager		363									.GB21-2956	DOS/VSE	15X
5798-DJT	Presentation Graphics - Interactive			1065	408						24	.GB21-2958	VM + 3277GA	15X
5798-DJH	DPPX Peer Data Transfer		693									.GB21-2961	DPPX	15X
5798-DJX	CICS/VS Formatted Dump Online II		2640									.GB21-2963	CICS/VS	15X
5798-DJY	Presentation Enhancements Using the 3800		1995		375	120						.GB21-2965	MVS	15X
5798-DKB	6670 Preprocessor		3045									.GB21-2974	MVS, VM	15E
5798-DKD	General Markup Language Product Aid	GML	3045		337	131						.GB21-2978	5748-XX9	15X

Number	Program Title	Short Name	OTC	ILC	MLC	DSO	DSI	DSM	MLP	MML	Mo	MoreInfo	Environment	TPLS
-5798-DKF	CICS Performance & Capacity Planning		1085									.GB21-2991	5798-CFP	1SX
5798-DKH	Check Processing Control - CHX Interface	CPCS/CHX	3190									.GB21-2997	MVS	1SX
5798-DKN	Resource Limiter		2475									.GB21-3005	VM	1SX
5798-DKP	Link Pack Area Optimizer		1650									.GB21-3010	MVS	1SH
-5798-DKQ	BLDL Optimizer		1285									.GB21-3012	MVS	1SX
-5798-DKR	Displaywriter Bisynch Support to PROFS		4250	472	172							.GB21-3016	VM/SP + RSCS	1SX
5798-DKT	CICS/VSE Security Manager		990									.GB21-3018	CICS/DOS/VSE	1SX
-5798-DKW	ACF/VTAME Trace Interpretation		495									.GB21-3023	DOS/VSE	1SX
5798-DKX	DPPX Distributed Connection Facility	DPCF	990									.GB21-3025	DPPX	1SX
5798-DLA	Process Development System		2850									.GB30-2004	Series/1	1SX
5798-DLK	The Information Facility	TIF	20000	4280	1070	18000						GG26-6000	VM	2SA
5798-DLK/01	The Information Facility XT/370	TIF	2400		53								3038,3039	OSC
5798-DLL	Data Base Edit	DBEDIT	6050									.G320-9195	SQL/DS+VM	1SH
5798-DLN	DL/I to IMS Data Dictionary Migration		2200									.G320-9196	VSE and IMS	1SH
5798-DLP	Personal Manager		1650									.G320-9197	CICS+COBOL	1SH
5798-DLQ	Data Base Edit	DBEDIT	7700		350							.G320-9195	MVS+DB2	1SH
5798-DMB	TSO / JES2 Batch Display Facility II		1650									.GB21-3037	MVS	1SX
-5798-DMC	3640 Industrial Termin - CICS Extensions		3575									.GB21-3040	5660-267	1SX
5798-DMD	3640 Presentation Services - Transaction		1455									.GB21-3042	5660-267	1SX
-5798-DMF	Load Module Analysis Program		1210									.GB21-3044	OS/VS	1SX
5798-DMG	CPCS User Editing		2915									.GB21-3046	OS/VS	1SX
-5798-DMH	3800 3-of-9 Bar Code Print		3300									.GB21-3048	OS/VS	1SX
5798-DMJ	Remote Spooling Communications / SNA	RSCS/SNA	4950									.GB21-3050	VM+RSCS	1SX
-5798-DMK	XY/750 Plotter Support for GDDM		1540									.GB21-3054	TSO,CMS	1SX
-5798-DML	CICS/IMS Data Collector Capacity Plan	CPX	1815									.GB21-3057	OS/VS,CICS/VS	1SX
-5798-DMN	Information Display Program	IDP	2200									.GB21-3062	MVS,VM+3270	1SX
5798-DMP	Virtual CPU - Series/1		3740									.GB21-3064	VM/CMS	1SX
-5798-DMQ	Local Display Terminal Simulator		3300									.GB21-3066	DOS/VSE	1SX
-5798-DMT	Letterwriter for Document Composition	DCF	550									.GB21-3072	5748-XX9	1SX
5798-DMW	Graphics and Color / Script		5080									.GB21-3074	DCF (Script)	1SX
-5798-DMX	Managing Appl Development - Bar Charter	MADP	396									.GB21-3082	OS/VS,DOS/VSE	1SX
5798-DMY	VM File Storage Facility	FSF	1100									.GB21-3084	VM	1SH
-5798-DMZ	Color Text Presentation Facility		1210									.GB21-3086	3279+GDDM+5748-AP1	1SX
-5798-DNA	DMS Model-Based Application Generator		2750									.GB21-3089	CICS/VS	1SX
-5798-DNB	Development Management System Debug-II	DMS	1320									.GB21-3091	CICS/VS	1SX
5798-DNC	Braille Text		2640									.GB21-3093	VM,MVS	1SH
-5798-DND	3800 Character/Graphic / Logo Design Aid		660									.GB21-3095	OS/VS+3800+5740-CB1	1SX
-5798-DNE	Print Image Library Documentation Aid		660									.GB21-3097	OS/VS	1SX
5798-DNG	CPCS Sort Table Generator		13200		600							.GB21-3104	MVS,VS1	1SH
5798-DNH	Host Interactive Store Communications		26400		1200							.GB21-3117	MVS+CICS	2SH
5798-DNJ	3694 Debug Test Aid for User Edit Progrms		1100									.GB21-3119	VSE,OS/VS	1SX
5798-DNK	3800 90 Degree Rotate Rescaled Char Set		440									.GB21-3121	MVS+3800-III	1SX
5798-DNL	Application Program Performance Extender		2750									.GB21-3123	MVS	1SH
-5798-DNQ	6670 Presentation Enhancements		880									.G320-9159	MVS, VM+5798-DKB	1SX
5798-DPC	Network Management Productivity Facility	NMPF	800									.G320-9165	MVS+NCCF	1SH
5798-DPE	VSPC Migration Aids to TSO/E	FTI	2145									.G320-9166	5665-283	1SX
5798-DPG	VSAM File Definition Aid		2200									.G320-9170	MVS,VSE	1SH
5798-DPH	JCL Conversion Aid from VSE to MVS or XA		11000		500							.G320-0440	VSE and MVS	1SH
5798-DPJ	Structured Query Language/Edit	SQL/DS	2750									.G320-9184	SQL/DS	1SX
-5798-DPK	3800 Page Mode - Text and Image Merge		5500		250							.G320-9185	MVS	1SX

Number	Program Title	Short Name	QTC	ILC	MLC	DSO	DSI	DSM	MLP	MML	Mo	MoreInfo	Environment	TPLS
5798-DPL	CICS/VS Conversion Utility		7700		350							.3200-442	CICS COBOL or PL/I	15H
5798-DPR	IMS/VS Fast Reorganization Reload II	FRR II	3960									.G320-9201	IMS/VS	15X
5798-DPW	SCRIPT Mathematical Formula Formatter		6600		300							.G320-9189	4250+MVS or VM+DCF	15H
5798-DPY	IBM Database 2 Performance Reporting Tool	DB2PRT	5500		250							.G320-9202	DB2	15H
5798-DQA	Document Library Facility Dialog		1980									.G320-0360	MVS+DLF+DCF+ISPF	15X
5798-DQD	Cache RMF Reporter		1210									.G320-0362	DF/DS,DFP+RMF+PL/I	15X
5798-DQE	APL VS Time Shared Input/Output Interfac	VS TSIO	3500									.G320-0365	MVS,XA+APL	15H
5798-DQF	6670 Usability Aid		5500		250							.G320-0368	VM+6670	15H
5798-DQG	EDX Department Office Control System		1980									.G320-0367	Series/1	15H
5798-DQH	CICS to 3270-PC File Transfer Program		660									.G320-0369	CICS+3270-PC CP	15H
5798-DQJ	Personal Manager		1650									.G320-9197	CICS+COBOL	15H
5798-DQK	3694 Check Processing Executive/General		4950									.G320-0372	System/38	15H
5798-DQL	SQL/DS Relational Design Tool		4400									.G320-0654	VSE,VM	15H
5798-DQN	Data Dictionary Job Stream Processor		7150		325							.G320-0335	MVS	15H
5798-DQR	System/3 to System/36 RPG-II Conversion		330									.G320-0342	System/36	15H
5798-DQY	Structured Query Language/Edit	SQL/Edit	3850									.G320-0348	VM+SQL/DS	15H
5798-DQZ	LISP		7150		325							.G320-0349	VM	25H
5798-DRA	Automated Information Management		1265									.G320-9215	System/36	15H
5798-DRB	Online Presentation Utility	OPUS/38	1090									.G320-0252	System/38	15H
5798-DRC	Application Help Aid		550									.G320-9216	IMS/36	15H
5798-DRD	MVS Link Pack Area Optimizer Extensions		1705									.G320-9206	MVS	15H
+5798-DRE	MICR User Editing - CHX/3694, CHX/VS		7500									.G320-9250	OS/VS,VSE	25H
5798-DRF	MVS Resource Utilization Tool		2035									.G320-9229	MVS,XA	15H
5798-DRG	VM Interface Program for TCP/IP		18700		850							.G320-9219	VM+EDX/RPS/DACU	15H
5798-DRJ	VM HPO Support for 3880		2200									.G320-9225	CMS+HPO	15H
5798-DRK	Signature Verification		16500		750							.3209-244	System/38	15H
5798-DRP	Data Dictionary DB2 Interface		4000									.G320-9241	DB2	15S
5798-DRR	VSE/Network Management Productivity FacI NMPF		1200									.G320-9239	VTAM	25H
5798-DRT	PROFS Note Maintenance Facility		1500									.G320-0796	PROFS	25H
5798-DRM	3 of 9 Bar Code Print 3800-3		3000									.G320-9243	MVS,XA	25H
5798-DRX	Plant Automation Communication System		8800		400							.G320-9245	EDX Communic Facil	15H
5798-DRX-01	Plant Automation Communic - Sourcecode		660		30							.	3000,3046	15H
5798-DRY	Tape Automation for Production VSE		2200									.G320-0835	VSE	25H
5798-DTA	5210 Full Function Support		3850									.G320-9254	VM+5210G Printer	25H
5798-DTB	Professional Visual Aid Composer		1500									.G320-0813	GDDM+PGF	25S
5798-DTC	Utility Work Management Starter System		8250		375							.G320-0797	MVS+CICS+IMS	15H
5798-DTD	Interactive Composition and Editing Ver2 ICEF		25000		1250							.G320-9798	VM+4250 or 3800 III	25H
5798-DTE	VM5812 Pageprinter VM Support		1900									.G320-0799	VM	15H
5798-DTJ	Service of Process		616									.G320-0364	5520	15X
5798-DTK	Banking Administration		550									.G320-0363	Displaywriter	15X
5798-DTL	TSO Host Server for PC XT/370 (VM/PC)	TSOSERV	2420									.G520-3917	MVS+VTAM	15H
5798-DTP	Inbound File Analysis and Retrieval		2555									.GB30-2037	ADCS	15H
5798-DTQ	Data Base Migration Aid Utility		4000									.SH20-9032	DB2	25H
+5798-DTM	Videotex/370		75000		4000							.G320-9388	CICS/MVS	15H
5798-DTX	Report Distribution Processor II		2100									.G320-0801	MVS	25H
5798-DT0	Data Base Migration Aid Utility		4000									.SH20-9032	DB2	15H
5798-DMA	CMS/Extended Data Array Capability 1.1		23000									.SH20-6958	VM/XA Migration Aid	25H
+5798-DMB	BASIC Conversion Aid from BASIC Four		3000									.G320-0830	System/38	15H
+5798-DMD	VM/XA Realtime Monitor/Systems Facility		7500									.SH26-7000	VM/XA	15E
+5798-DHF	3090 Vector Facility Simulator		9500									.GC23-0340	VM	15H

Number	Program Title	Short Name	OTC	ILC	MLC	DSQ	DSI	DSM	MLP	MML	Mo	MoreInfo	Environment	TPLS
+5798-DWG	Answer/DB (R) for PC Products		35000									GH20-9244	CICS/OS or IBM/DC	1SH
+5798-DWG/01	Answer/DB (R) for PC Products		20000									GH20-9244	CICS/VSE	1SH
+5798-DWH	Selt-Teach, The Online XEDIT Tutorial		1500									.G320-9499	VM	2SH
+5798-DXA	Expert System Consultation Environment		25000		1250							.G325-0040	MVS	2SH
+5798-DXB	Expert System Development Environment		35000		1750							.G325-0040	MVS Consultation env	2SH
+5798-DXJ	FORTRAN VS Execution Analyzer		12500									GI26-0139	MVS, XA+VS FORTRAN	1SH
+5798-DXN	Classified Data Erasure Program	C.D.E.P.	5000									GC26-4269	VM, MVS	1SS
+5798-DXQ	Integrated Catalog Forward Recovery Util	ICFRU	4500									.G320-9501	MVS, XA	1SH
+5798-DXR	GDDM Graphic Subroutines		550									.G320-9504	System/36	1SH
+5798-DXT	VM Interpreter Interface to SQL		4900		225							.G320-9508	VM+SQL	1SH
+5798-DYQ	CATIA (R) Interactive User Access			3000	1000							SH20-0072	CATIA Base	1SH
5798-NLG	Intelligent Terminal Subsystem				126							12.GB30-1032	Series/1	1SH
-5798-NPY	Intelligent Data Entry System	IDES	759		69							12.GB30-1134	Series/1	1SH
-5798-NPZ	CPS Remote Job Entry	RJE	341		31							12.GB30-1134	Series/1	1SH
5798-NQF	Fixed Asset Accounting & Control				161							12.GB30-1136	System/34	1SH
5798-NQG	Public Utility Customer Service		3465		315							12.GB30-1159	System/34	1SH
-5798-NQK	Data Base Techniques		755		151							06.GB30-1170	System/34	1SH
-5798-NQL	Mult Index Support - Disk Files				69							06.GB30-1168	System/34	1SH
-5798-NRN	Retail Pharmacy System		7290		663							12.GB30-1226	System/34	1SH
-5798-NRM	Online Hospital Data Entry/Inquiry		2350		214							12.GB30-1214	System/34	1SH
-5798-NTE	Sys/3 to Sys/34 Conversion Aid		474									.GB30-1231	System/34	0SH
5798-NTL	Supermarket Communication Sys for 3660				230							12.GB30-1247	System/34	1SH
-5798-NNF	Interactive Student Records		2075		189							12.GB30-1300	System/34	1IH
-5798-NNP	Online Student Registration		4025		366							12.GB30-1312	System/34	1SH
-5798-NNT	Administrative Control System		3465		315							12.GB30-1318	System/34	1SH
-5798-NNW	Proof-of-Deposit / Transit		2075		189							12.GB30-1141	System/34	1SH
5798-NNX	Inven/34 - Computer-Assisted Inventory				488							12.GB30-1102	System/34	1SH
-5798-NXQ	Intelligent Data Entry System II	IDES II	2615		119							24.GB30-1352	Series/1	1SH
-5798-NXM	COBOL Conversion Aid to System/38		632									.GB30-1362	System/3	0SH
5798-NXX	Touch-Tone - Audio Support				201							12.GB30-1350	Series/1	1SH
5798-NXY	DMAS II Billing Enhance - Food Distrib				207							12.GB30-1340	System/34	1SH
5798-NXZ	DMAS II Acct Rec Enhance - Food Distrib				138							12.GB30-1340	System/34	1SH
-5798-NYA	Point-of-Sale Data Collection & Distrib		3110		283							12.GB30-1397	Series/1	1SH
5798-NYD	Scientific Subroutine Package	SSP	800									.GB30-1563	Series/1 + FORTRAN	1SX
-5798-NYN	S/3 DBI to S/38 Conversion Aid		271									.GB30-1389	System/3	0SH
5798-NYQ	Advance Earned Income Credit Interfaces		575									.GB30-1395	System/34, System/32	1SH
-5798-NYR	COBOL Conversion Aid from NCR 8200		990									.GB30-1433	System/34	0SH
-5798-NZA	Computer-Assisted Training II		715		143							06.GB30-1481	System/34	1EH
-5798-NZB	Calendar Management System		3815		347							12.GB30-1401	System/34	1SH
-5798-NZH	OS/6 Communications & File Conversion		785		157							06.GB30-1431	System/34, 32, 3	1SH
-5798-NZR	Strategic Profit Model		315									.GB30-1424	System/34	1SH
-5798-NZY	Online Reject/Reentry Check Processing		550		50							12.GB30-1445	System/34	1SH
5798-PXJ	Dynamic Simulation Language/VS	DSL/VS	10000		454							.G320-0357	VM, MVS, XT/370	1SH
5798-PXJ/01	Dynamic Simulation Language XT/370		1000		45								3044, 3045	0SC
-5798-RAB	EDX Energy Conservation System		3585		163							24.GB30-1450	Series/1	1SH
-5798-RAR	Text Entry & Edit Facility		3330		303							12.GB30-1470	Series/1	1SX
5798-RAS	Retail Applications System/36	RAS/36	19900									.GB30-2497	System/36	1SH
5798-RBC	S/3 to S/38 Batch Conversion Aid		759									.GB30-1504	System/38	0SH
-5798-RBD	Central Site Maintenance		505		101							06.GB30-1494	System/34	1SH
-5798-RBE	MICR Program Generator		759		69							12.GB30-1476	System/34	1SH



Number	Program Title	Short Name	QTC	ILC	MLC	DSO	DSI	DSM	MLP	MML	Mo	MoreInfo	Environment	TPLS
-5798-RBG	Dealer Parts Inventory Management		6930		315							24.GB30-1498	System/34	1SH
-5798-RBL	EDX File Creation/Maintenance Utilities		550		50							12.GB30-1496	Series/1	1SX
-5798-RBN	Physical Inventory Enhancement	DMAS II	1110		101							12.GB30-1506	System/34	1SH
-5798-RBQ	Specialized Terminal Interface Processor		2900		132							24.	Series/1	1SH
-5798-RBY	Virtual Basic Supervisor - Waterloo		682		31							36.GB30-1466	Series/1	1SH
-5798-RBZ	Construction Data Entry/Edit Support	CMAS	605		55							12.GB30-1516	5280 Data System	1SH
5798-RCH	EDX Data Backup with Compression		275									.GB30-1555	Series/1	1SX
5798-RCR	Format Design Aid		660									.GB30-1548	5280 Data System	1SH
-5798-RCT	Manufacturing Order Tracking Subsystem	MAPICS	570		114							06.GB30-1536	System/34	1SH
-5798-RCX	Data Collection Edit & Transmit		1820		138							12.GB30-1552	Series/1	1SH
5798-RCZ	EDX General Purpose Automation Executive		6300		287							24.GB30-1565	Series/1	1SH
-5798-RDB	System/34 to 5280 Report Transfer		330									.GB30-1581	System/34	1SX
-5798-RDC	Inventory Forecasting for Manufacturers	MAPICS	4840		440							12.GB30-1532	System/34	1SH
5798-RDK	S/3 to S/38 Batch Conversion Aid		715									.GB30-1585	System/38	05H
-5798-RDP	Application Support for 3624 CTF		9680		880							12.GB30-1626	System/34	1SX
5798-RDR	Virtual Machine Facility/370 for S/1		8710		792							12.GB30-1590	Series/1	1SH
-5798-RDX	Data Collection Host		75									.GB30-1552	System/34 to S/1	1SH
-5798-RDY	System/38 to S/1 Communication Utility		605		55							12.GB30-1579	System/38	1SH
5798-RFC	Communicating Job Stream Processor		715									.GB30-1628	Series/1	1SH
5798-RFD	Source Archive		378									.GB30-1630	System/38	1SX
-5798-RFF	3101 Full Screen Control Program Support		310									.GB30-1639	Series/1	1SH
5798-RFJ	All Items File Translation Facility 3694	CHX/GS	1210		110							12.GB30-1645	System/34+5748-F53	1SX
5798-RFK	Table Preparation Facility 3694	CHX/GS			100							12.GB30-1645	System/34+5748-F53	1SX
5798-RFL	Document Control Section Edit 3694	CHX/GS			100							12.GB30-1645	System/34+5748-F53	1SX
-5798-RFR	BICARSA Online		5445		495							12.GB30-1667	System/34	1SX
-5798-RFT	Accounts Payable Online		2055		187							12.GB30-1670	System/34	1SX
-5798-RFW	General Ledger & Financial Acctg		1815		165							12.GB30-1673	System/34	1SX
5798-RGD	EDX Chain Pharmacy	Medi-CAL	2420									.GB30-1699	Series/1	1SX
5798-RGD/01	California Medical Assistance Program	Medi-CAL	440									.GB30-1699	6035	1SX
5798-RGT	COBOL Conversion Aid		1430									.GB30-1764	System/38	05X
-5798-RHA	5520 Documents - Host Store & Forward		12100		1100							12.GB30-1690	TCAM, VTAM	1SX
-5798-RHB	EDX Laboratory Automation		3960		300							12.GB30-1688	Series/1	1SX
5798-RHC	Programmer's Productivity Aid & T/E		605									.GB30-1702	5280 Data System	1SX
5798-RHF	Message Switching System		2145									.GB30-1756	System/38	1SH
5798-RHH	EDX Support - Programmable Cycle		792		60							12.GB30-1760	S/1.RPQ-002288	1SX
-5798-RHN	Bar Code Print for MAPICS		825		165							06.GB30-1706	System/34	1SX
-5798-RHP	Data Capture / Edit for Bar Code		1815		165							12.GB30-1708	Series/1	1SX
-5798-RJA	Tools for Application Source Translation TASCOT		13660		620							.GB30-2027	System/34	1SX
5798-RJF	EDX High-Level Language Transaction		660									.GB30-1896	Series/1	1SX
-5798-RJG	Fixed Asset Accounting & Control		2640									.GB30-1790	Replaced by 5798-RWT	1SX
-5798-RJH	Fixed Asset Accounting & Control II		2310									.GB30-1787	System/34	1SX
5798-RJK	Communications Chain Facility - Batch		275									.GB30-1801	5280 Data System	1SX
-5798-RJL	EDX 3101 Full Screen Subroutines		269									.GB30-1845	Series/1	1SX
-5798-RJY	Information Exchange with Displaywriter		660									.GB30-1857	S/34+Displaywriter	1SX
5798-RKB	System/38 to VSE/POWER RJE BSC		4155	544	189							12.GB30-1873	System/38	1SX
5798-RKC	Transaction Switching Facility		3135									.GB30-1871	Multiple System/38s	1SX
5798-RKG	Check Processing / Sort 3694	CHX/GS	440									.GB30-1853	S/34 + 5748-F53	1SX
5798-RKH	Check Processing / Communications		440									.GB30-1851	S/34 + 5748-F53	1SX
5798-RLA	Programmer Productivity - Debug		495									.GB30-1903	5280 Data System	1SX
5798-RLC	Textbook Order Control		1400									.GB30-1905	Sys/23 Datamaster	1SX

Number	Program Title	Short Name	OTC	ILC	MLC	DSO	DSI	DSM	MLP	MML	Mo	MoreInfo	Environment	TPLS
5798-RLD	Energy Conservation System II		4480									.GB30-1912 Series/1		1SX
5798-RLF	5280 Computer-Assisted Training		550									.GB30-1923 5280 Data System		1SX
5798-RLG	VERSAPLAN		165									.GB30-1925 Sys/23 Datamaster		1IX
5798-RLH	Text Editor		330									.GB30-1927 5280 Data System		1SX
5798-RLT	Network Configuration Tool		962									.GB30-1991 System/38		1SX
-5798-RLW	EDX Direct Store Delivery System		1200									.GB30-1998 Series/1		1SX
5798-RLZ	Object Management Facility		880									.GB30-2285 System/38		1SX
5798-RND	Retrieval/34		1320									.GB30-2083 System/34		1SX
5798-RNG	Legal Billing		550									.GB30-2095 Displaywriter		1SX
5798-RNM	General Donor Fund-Raising		550									.GB30-2196 Displaywriter		1SX
5798-RNX	Association Management		550									.GB30-2245 Displaywriter		1SX
5798-RNY	Educational Fund-Raising		550									.GB30-2246 Displaywriter		1SX
5798-RNZ	Title Insurance		550									.GB30-2247 Displaywriter		1SX
5798-RPE	Physical Inventory Enhancement	DMAS	1395									.GB30-2230 System/36		1SX
5798-RPG	Detail Sales Analysis	DMAS	632									.GB30-2225 System/36		1SX
5798-RPH	Fixed Asset Accounting & Control System		2750									.GB30-2221 System/36		1SX
5798-RPJ	Document Distribution to Remote 5520	EDD	1540									.GB30-2213 System/36+5520		1SX
5798-RPK	6670 Information Distributor Support		1210									.GB30-2219 System/36		1SX
5798-RPL	Displaywriter - Information Exchange		726									.GB30-2215 S/36+Displaywriter		1SX
5798-RPN	Procedure Documentation & Mod Aid		973									.GB30-2211 System/36		1SX
5798-RPP	File Maintenance Program Writer - Online		610									.GB30-2217 System/36		1SX
5798-RPQ	Data Base Techniques		1100									.GB30-2209 System/36		1SX
5798-RPR	Inventory Forecasting for Manufacturers	MAPICS	6600		300							.GB30-2187 System/36		1SX
5798-RPT	Strategic Profit Model II		495									.GB30-2130 System/36		1SX
5798-RPW	Graphing		770									.GB30-2128 System/36		1SX
5798-RPX	Retrieval/36		1320									.GB30-2069 System/36		1SX
5798-RPY	DMAS II File / Record Definitions		330									.GB30-2134 Retrieval/36		1SX
5798-RPZ	CMAS File / Record Definitions		330									.GB30-2138 Retrieval/36		1SX
5798-RQB	MAPICS File / Record Definitions		330									.GB30-2146 Retrieval/36		1SX
5798-RQC	Equal Employment Opportunity Report	CMAS	1100									.GB30-2185 5727-M69		1SX
-5798-RQK	Equal Employment Opportunity Report	CMAS	825									.GB30-2179 System/34		1SX
-5798-RQL	MAPICS File / Record Definitions		330									.GB30-2144 Retrieval/34		1SX
-5798-RQN	DFAS II File / Record Definitions	DFAS-II	330									.GB30-2140 Retrieval/34		1SX
-5798-RQP	CMAS File / Record Definitions		330									.GB30-2136 Retrieval/34		1SX
-5798-RQQ	DMAS II File / Record Definitions		330									.GB30-2132 Retrieval/34		1SX
-5798-RQR	Make-to-Schedule for Inventory Mgt	MAPICS	3025									.GB30-2324 System/34		1SX
-5798-RQT	Make-to-Schedule for Inventory Mgt	MAPICS	3630									.GB30-2326 System/38		1SX
5798-RQM	All Items File Translation Facility 3694	CHX/GS	1650									.GB30-2238 S/36+5748-F53		1SX
5798-RQX	Table Preparation Facility 3694	CHX/GS	1650									.GB30-2238 S/36+5748F53+5798RFL		1SX
5798-RQY	Communication Support Facility 3694	CHX/GS	825									.GB30-2238 S/36+ICF+5748-F53		1SX
5798-RQZ	Sort Preparation Facility 3694	CHX/GS	825									.GB30-2238 System/36+5748-F53		1SX
5798-RRR	Application Support for 3624 CTF		13200									.GB30-2245 System/36		1SX
5798-RRB	6670 Information Distributor		2060									.GB30-2301 System/38		1SX
-5798-RRC	Applicant Processing		434									.G320-9160 5520 Admin. System		1SX
5798-RRD	EDX Indust Terminals - Transaction Test		1980									.GB30-2332 Series/1		1SX
5798-RRD/01	Industrial Terminals- Acquisition & Tran		1650									. 3036		1SH
5798-RRE	3101 Emulation and Document Transfer		330									.GB30-2303 Displaywriter		1SX
5798-RRG	Automated Response Line Call Handlg		5500		250							.G320-9172 System/34		1SX
5798-RRH	Job Analysis System		3025									.GB30-2309 System/36		1SX
5798-RRJ	Yale ASCII Communications - Host Loaded		4070									.GB30-2317 VM to EDX to 4994		1SX

Number	Program Title	Short Name	OTC	ILC	MLC	DSO	DSI	DSM	MLP	MHL	Mo	ForeInfo	Environment	TPLS
5798-RRK	Wholesale Drug		550									.GB30-2336	Reportpack	1SX
5798-RRP	Executive Data Link to PC (5250 Emulate)	CMAS	2750									.GH30-9029	CMAS/34	1SX
5798-RRQ	Executive Data Link to PC	MAPICS	2750									.GB30-2392	System/34+PC	1SX
5798-RRR	Executive Data Link to PC	MAPICS	2750									.GB30-2393	System/36+PC	1SX
5798-RRW	Electronic Spreadsheet		577									.GB30-2343	System/36	1SX
5798-RRX	Workstation Utilization Analysis		495									.GB20-0361	System/36	1SX
-5798-RRY	Make-to-Schedule for Inventory Mgt	MAPICS	3300									.GB30-2386	System/36	1SX
5798-RRZ	Executive Data Link to PC (5250 Emulate)	CMAS	2750									.GH30-9030	CMAS/36	1SX
-5798-RTB	Order Entry/Invoice to Gen Ledgr Interfc	MAPICS	550									.GB30-2402	S/34+Ord Entry	1SX
5798-RTC	Order Entry/Invoice to Gen Ledgr Interfc	MAPICS	525									.GB30-2402	S/36+Ord Entry	1SX
5798-RTD	Order Entry/Invoice to Gen Ledgr Interfc	MAPICS	550									.GB30-2402	S/38+Ord Entry	1SX
5798-RTE	EDX Store Item Management		1000									.GB30-2405	Series/1	1SH
5798-RTG	Management Information	COPICS	3600									.GB30-2407	VSE,MVS+COBOL	1SH
5798-RMD	MAPICS II File / Record Definitions		400									.GB30-2146	Retrieval/36	1SH
-5798-RME	Make-to-Schedule Facility for Inventory	MAPICS II	3300									.GB30-2386	System/36	1SH
5798-RME/01	Make-to-Schedule Upgrade from 5798-RRY	MAPICS II	1050									.	4704	1SH
5798-RMF	401K Tax-deferred Savings Plan	MAPICS	300									.GB30-3316	S/38 MAPICS Payroll	1SX
5798-RMG	401K Tax-deferred Savings Plan	MAPICS	300									.GB30-3316	S/34 MAPICS Payroll	1SX
5798-RMH	401K Tax-deferred Savings Plan	MAPICS	300									.GB30-3316	S/36 MAPICS Payroll	1SX
5798-RMK	Payroll 401K Tax-Deferred Savings Plan	DMAS	300									.GB30-2493	S/36 DMAS Payroll	1SH
5798-RML	Composition Utility Version 2		4500									.	GDDH	2SH
5798-RMN	Plant Auto Comm Sys/Mod Transfer Facilit	PACS/MTF	1900									.G320-0836	MVS+VTAM+EDX on S/1	1SH
5798-RMP	Expert System Consultation Environment	ESCE	25000		1250							.G320-0828	VM	2SH
5798-RWQ	Expert System Development Environment	ESDE	35000		1750							.G320-0828	ESCE	2SH
5798-RMT	Fixed Asset Accounting & Control System		2800									.GB30-6010	System/38	1SH
5798-RMT/01	Fixed Asset Acctg - Upgr from 5798-RJG		600									.GB30-6010	4408,9049	1SH
-5798-ZZB	CPS COBOL - Virtual		693		63					12.		.	Series/1	1SH
5798-ZZC	EDX Communications Facility		968		44					36.		.GB30-1307	Series/1	1SH
5798-ZZE	EDX Communications Facility - Airlines		1210		55					24.		.GB30-1550	Series/1	1SX
-5798-ZZF	EDX Communication Controller		3025		275					12.		.GB30-1579	S/38,34,5280,370	1SX
5799-AAN	FORTRAN H Extended Plus	RPQ-FA2468		1485			1110	5	8			.	MVS	1SX
5799-ADR	RCA (R) 301 Emulator	RPQ-P81002		818								GA24-3605	DOS DOS/VS	05C
5799-ADT	Honeywell (R) 200 Emulator	RPQ-P81003		757								GA24-3604	DOS DOS/VS	05C
5799-AFD	Display Management Systems	RPQ-Z06076	53350	4850						12.		.SH20-1745	5799-AHE	21B
5799-AHE	Special Realtime Operating System	RPQ-Z06751	60660	5515						12.		.SH20-1773	V51	21B
5799-AHP	Link Control FDx IATA 3704 SEP	RPQ-P85027	12100	550								.	ACP	15B
5799-ALX	Generalized Information System	RPQ-8T0139		589								.GH19-0082	DOS/VS, DL/I	1SX
5799-AQK	STAIRS-VS Thesaurus Retrieval	RPQ-P71044	10070	458								.GH20-1908	05/VS+5799-AQL	15B
5799-AQL	STAIRS-VS Thesaurus Generator	RPQ-P71045	4220	192								.GH20-1908	05/VS+STAIRS	15C
5799-AQT	S.H.I.F.T. BSC EP Support	RPQ-Y96612	3135	98								.SC19-5017	TCAM	15A
5799-ARD	Financial Services Terminal Support	RPQ-P09004		622								.GH20-4651	DOS/VS CICS/VS	11C
5799-ARE	Financial Services Terminal Support	RPQ-P09005		795								.GH20-4652	CICS/OS/VS	11C
5799-ARG	MVT Support for 3350 / 3330-11	RPQ-E04653	3600									.GH20-9115	05/MVT	11C
5799-ARX	Earth Resources Management II	RPQ-MH2256	63580	2890						24		.GB11-5007	V51	15C
-5799-ATQ	HASP Support for 3800	RPQ-MJ0792	6300									.GH20-4493	05/MVT	15C
5799-AMR	COBOL ANS/68	RPQ-P84019		120				90				.GC21-7784	System/34	15X
-5799-AMX	MVT Support for 3031/3032/3033	RPQ-MJ2480	12880									.GC28-0951	05/MVT	15C
5799-AXW	3277 APL Graphics Attachment Support	RPQ-P09014	2835	103								.GH20-2146	V5APL-CMS, TSD, VSPC	15E
+5799-AXX	Graphics Attachment 3277GA, 5080	RPQ-P09013	4000	150								.GH20-2146	VM/CMS, MVS/TSD	15E
5799-AYW	Work Station Support Subroutine	RPQ-P84034		20				15				.GC21-7808	System/34	15X

Number	Program Title	Short Name	OTC	ILC	MLC	DSO	DSI	DSM	MLP	MML	Mo	MoreInfo	Environment	TPLS	
5799-AZL	DPPX Development System	RPQ-P88016			676							GC27-0505	OS/VS, DPPX	15B	
5799-AZN	Consumer Terminal Access Method	RPQ-P83000			361							GH20-4576	3624 DEVICES	15C	
5799-AZP	Network Extension Facility	RPQ-P09021	18580		718							.GH20-5289	ACF/MCP/VS	15X	
5799-AZT	JES3 Networking PRPQ	RPQ-P09022			2055			1545	326	522		.GH20-2204	NJE	25K	
5799-BAF	PEP Extended Features for the 3705-II	RPQ-P85032			339				254	26	42	GC30-9540	V51 MVS DOS/VSE VM	25K	
5799-BCP	Distributed Disk File Facility	RPQ-P84037			114				86			GC21-7872	System/34	15X	
5799-BDE	DPPX SDLC Auto-Answer	RPQ-ML2503			27				20				8100/DPPX	15B	
5799-BEB	Geo-Facilities Data Base Support	RPQ-P09030	44550		2025						36	.GH20-2482	IMS+5799-AYB	25B	
5799-BEH	3640 CICS/VS Extensions - 4331 Loops	RPQ-P90000			73			55	7	11			DOS/VSE, OS/V51	15K	
5799-BEJ	Advanced Control System - Host ACS	RPQ-P09031	247800	22530								12	.GH20-2464	V51, 5799-AHE	25E
5799-BEQ	Link Support PRPQ		nc											NO5X	
5799-BEW	Advanced Control System ACS	RPQ-P09032	20070	1825								12	.GH20-2464	Series-1+5799-BEJ	25E
5799-BEZ	3270 Device Emulation BSC												System/34	05X	
5799-BFA	Auto Response		nc										System/34	NO5X	
5799-BFF	3380 / 3375 Support PRPQ			3525	1175		2640	881	55	88		GC26-4001	MVS+5740-AM6	15K	
5799-BFG	Link DE/RPQ Compiler PRPQ		nc										System/34	NO5X	
5799-BFJ	BSC MULTIPPOINT (3770/3780)		nc											NO5X	
5799-BFK	Line Disconnect		nc											NO5X	
5799-BFN	5224 / 5225 Advanced Printer Function	RPQ-P84045			525							GC21-7922	System/34	15E	
5799-BFP	Text Editor	RPQ-P84046			1150							GH30-0245	System/34	15E	
5799-BGB	4700 Online Terminal Support	RPQ-P90002			1600		62					GC31-0022	System/34 and 36	15B	
5799-BGH	3270 Device Emulation SNA												System/34	05X	
5799-BGK	6670 Fonts Library				25								MVS	05C	
5799-BGL	6670 Fonts Library				25								VSE	05C	
5799-BGN	6670 Fonts Library				25								S/34,S/38,8100,S/36	05C	
5799-BGQ	6670 Fonts Library				25								VM	05C	
5799-BHQ	Bar Chart	RPQ-P84050			900							GC21-7953	System/38	15E	
5799-BHT	3277 Emulation for Displaywriter	RPQ-P10034			450							GA09-1679	Displaywriter	05E	
5799-BHM	Programmer & Operator Aid	RPQ-P84051			700							GC21-7955	System/34	15X	
5799-BJA	Image Distribution System - Scanmaster	RPQ-P01002	8800		440							SH18-0058	CICS/DOS/VS	15X	
5799-BJB	Image Distribution System - Scanmaster	RPQ-P01001	8000		428							SH18-0058	CICS/OS/VS	15X	
5799-BJE	Forms / Passbook Printer - 4720 FCS	RPQ-P90003	1500										DOS/VSE, OS/VS+3600	15L	
5799-BJH	Business Charting Program												System/34	05X	
5799-BJK	Performance Measurement Tool	RPQ P84054	1000									GC21-7958	System/38	05E	
5799-BKE	Document Interchange - Host to Display	HDDI		1165	265							GC09-1037	DCF, PROFS+5608-SR9	25E	
5799-BKG	3277 Emulation and Document Transfer	RPQ-P10074	550									GA09-1679	5799-BKE	05E	
5799-BKP	File Support Utilities for PC & XT	RPQ-P84058	300									GC21-7995	System/38	05Z	
5799-BNA	RPS Version 6 - Host Program Prep	RPQ P82725	8000		800							GA34-0535	MVS	15X	
5799-BNB	VSE/SP Production - Partial Function	RPQ 7B1000	9733		318	8761		286	324	518		GH20-5347	S/370,4300,303x,3083	15K	
5799-BNB/01	VSE/SP ICCF Feature		4635		139	3990		125					4926,4952,4953,4515	15K	
5799-BNB/02	VSE/SP POWNER Feature		3370		143	3035		129					4514,4954,4955,4925	15K	
5799-BNB/03	VSE/SP POWNER Shared Spool Feature		1200		41	1080		37	9	14			4923,4956,4957	15K	
5799-BNB/04	VSE/SP VSAM Feature		1360		73	1225		66					4517,4928,4958,4959	15K	
5799-BNB/05	VSE/SP VSAM Space Management Feature		621		38	560		34					4929,4961	15K	
5799-BNB/06	VSE/SP VSAM Backup/Restore Feature		384		28	366		25					4930,4963	15K	
5799-BNB/07	VSE/SP CICS/DOS/VS Feature		12710		596	11440		537					4520,4931,4964,4965	15K	
5799-BNB/08	VSE/SP Fast Copy Feature		378		20	340		18					4516,4927,4966,4967	15K	
5799-BNB/09	VSE/SP DIITO for VSE/VM Feature		1175		71	1055		64					4932,4969	15K	
5799-BNB/10	VSE/SP ACF/VTAM Feature		5930		246	5335		222					4523,4934,4972,4973	15K	
5799-BNB/11	VSE/SP BTAM-ES (Includes 5747-CG1)		514		38	463		34					4935,4971	15K	

Number	Program Title	Short Name	OTC	ILC	MLC	DSO	DSI	DSM	HLP	HML	Mo	MoreInfo	Environment	TPLS
5799-BNC	VSE/SP Generation - Partial Function	RPQ 7B1001	11190		365	10068		330	402	643		GH20-5347	S/370,4300,303x,3083	1SK
5799-BNC/01	VSE/SP ICCF Feature		5095		161	4585		144						1SK
5799-BNC/02	VSE/SP POMER Feature		3875		166	3483		149						1SK
5799-BNC/03	VSE/SP POMER Shared Spool Feature		1200		41	1080		37	9	14				1SK
5799-BNC/04	VSE/SP VSAM Feature		1565		23	1505		71						1SK
5799-BNC/05	VSE/SP VSAM Space Management Feature		713		64	641								1SK
5799-BNC/06	VSE/SP VSAM Backup/Restore Feature		461		33	397								1SK
5799-BNC/07	VSE/SP CICS/DDS/VS Feature		14620		686	13160		617						1SK
5799-BNC/08	VSE/SP Fast Copy Feature		454		23	409		21						1SK
5799-BNC/09	VSE/SP DITTO for VSE and VM Feature		1340		82	1205								1SK
5799-BNC/10	VSE/SP BITAM-ES (Includes 5747-CG1)		592		44	535								1SK
5799-BNC/11	VSE/SP ACFF/VITAM Feature		6815		284	6135		256						1SK
5799-BNF	SSX/VSE Partial Function	RPQ 7B1030	5390		331	4850		298	123	197		GC33-6143	4300	2SK
5799-BNF/01	SSX/VSE POMER Version 2	RPQ 7B1031	1305		80	1175		72						2SK
5799-BNF/02	SSX/VSE VSAM (Incl Space Mgt+Backup/Res)	RPQ 7B1032	1480		91	1350		82						2SK
5799-BNF/03	SSX/VSE Fast Copy	RPQ 7B1033	85		5	77		5						2SK
5799-BNF/04	SSX/VSE COBOL	RPQ 7B1034	1655		101	1490		91						2SK
5799-BNF/05	SSX/VSE IPCS	RPQ 7B1036	260		15	234		14						2SK
5799-BNF/06	SSX/VSE Sort/Merge	RPQ 7B1037	955		58	859		52						2SK
5799-BNF/07	SSX/VSE ICCF	RPQ 7B1038	1045		64	941		57						2SK
5799-BNF/08	SSX/VSE DITTO	RPQ 7B1039	175		25	157		22						2SK
5799-BNF/09	SSX/VSE OCCF	RPQ 7B1040	1565		96	1410		86						2SK
5799-BNF/10	SSX/VSE CICS-VS	RPQ 7B1041	6000		369	5400		332						2SK
5799-BNF/11	SSX/VSE IPF	RPQ 7B1042	85		5	77		5						2SK
5799-BNH	Business Graphics Utilities	RPQ-P84056	600									G580-0571	System/36	1SX
5799-BNX	Branch Electronic Reports System - Host	RPQ P90017	33000									SH17-5500	4700+MVS	1SE
5799-BNY	File Support Utilities for PC & XT	RPQ-P84059	300									GC21-7999	Replaced by 5727-WS1	0SE
5799-BNZ	File Support Utilities for PC & XT	RPQ-P84057	300									GC21-7994	System/34	0SX
-5799-BQW	Overstrike / Underscore - 3270 DSC	RPQ P91013	87									G544-2279	DH+5608-SR6	0SE
5799-BQY	4700 Finance System - Adv Branch Control	FCS	800										05/VS_VSE+5668-969	1SE
5799-BQZ	4700 Finance System - Format Distributn	FCS	11000		979								5668-989+5799-BQY	1SE
5799-BRJ	Programmer & Operator Productivity	RPQ P84061	500									GC21-9074	System/36	1SX
5799-BRL	PC to System/36 Transfer Facility		950										Replaced by 5727-WS1	0SZ
5799-BRP	DPPX/SP to 3270-PC File Transfer		nc										DPPX and 3270-PC	NOSE
5799-BRQ	RJE File Transfer - DPPX to PC 3270 Emu		1010									GC23-0630	6024-036	0SE
5799-BTA	Business Graphics Utilities	RPQ P84062	1550									G580-0454	System/34	1SX
5799-BTB	FORTRAN Elementary Math Library	RPQ P81005	300									GH20-5370	VM,MVS+FORTRAN	1SE
5799-BTB/01	Elementary Math Library XT/370		30										3035	0SC
5799-BTZ	PC to System/38 Transfer Facility		950										PC+S/38	0SZ
5799-BHE	System/36 to System/36 Document Transfer	RPQ P84067	800										OMS and TMS	1SX
5799-BMH	VSE/System Product - Partial Function	RPQ 7B0919	12490		502	11240		452	433	693			4300,303x,308x,S370	1SK
5799-BXF	Host to Displaywriter Document Interchg	RPQ P09058	3315									GC09-1037	5796-PWP+5608-SR9	2SD
5799-BXG	Host to Displaywriter Document Interchg	RPQ P09059	6095									GC09-1037	5796-PRH+5608-SR9	2SD
5799-BXL	Series/1 Terminal Interface (to VM/IX)	STIPS	3400									GH20-6410	VM/IX+FDX ASCII term	3SE
5799-BXN	Virtual Machine Interactive Executive	VM/IX	47000									GH20-6410	VM+STIPS (5799-BXN)	3SE
5799-BXT	Programmer & Operator Productivity Aid	RPQ P84079	200									G580-0570	System/36 PC	0SH
5799-BZD	4700 Format Distribution Services V2		16500		1470								4700 Host Support	1SE
5799-BZD/01	4700 FDS Upgrade from V1 (5799-BQZ)		7500										4675	1SE
5799-BZE	4700 Advanced Branch Controller Version2		1200										4700 Host Support	1SE
5799-BZE/01	4700 ABC Upgrade from Version 1 (5799BQY)		450										4676	1SE

Number	Program Title	Short Name	OTC	ILC	MLC	DSO	DSI	DSM	MLP	MHL	Mo	MoreInfo	Environment	TPLS
5799-BZH	INfort	RPQ P09056		2230	500								VM/IX	OSH
+5799-BZJ	X.25 SNA Interconnection	XI	37200										MVS	2SM
5799-BZL	5250 Emulation for the 4700	RPQ P90021	1995									SC31-3588	Systems/34, 36, 38	1SE
5799-BZN	Branch Electronic Reports System - 4700	RPQ P90018	220									SH17-5500	BERS Host	1SE
5799-BZR	4730 Financial Application Extension	RPQ P90020	23000										CICS	1SX
5799-CAF	Interactive Schematics Builder for ACS	RPQ P09061	8800		400								5799-AHE and BEJ	0SC
5799-CCN	Diskette Exchange Facility	RPQ P84072	325									.GC21-0142	S/36 PC,S/36,PC/AT	0SA
+5799-CDX	Network Extension Facility Version 2		70000										3725+MVS/VTAM	2SM
+5799-CGJ	IPDS Graphics/Text Merge	RPQ P84096	200										System/36	1SA
+5799-CGK	IPDS Advanced Function	RPQ P84094	300										System/36	1SA
+5799-CGL	IPDS Advanced Functions		150										System/36 5364	0SE
+5799-CGP	IPDS Graphics-Text Merge		150										System/36 5364	0SE
+5799-CGZ	Academic Information System 4.2	BSD 4.2	1715										RT	0SC
+5799-CJN	4730 Financial Application Extension IMS		45000										MVS	1SH
+5799-PAJ	PC Performance Monitor	RPQ P84090	300										System/36	1SA
+5799-PAZ	Response Time Measurement Facility	RPQ P84089	200										System/36	1SA
5799-TAA	CPS - Control Program Support	RPQ-P82508	480		21						24	GC34-1557	Series/1	1SC
5799-TAE	CPS 4979 Display Station	RPQ-P82515	48		2						24	SC34-1554	Series/1	1SC
5799-TAF	CPS - Binary Synchronous Support	RPQ-P82516	120		5						24	SC34-1553	Series/1	1SC
5799-TAH	CPS Indexed Access Method	RPQ-P82519	144		6						24	SC34-1556	Series/1	1SC
5799-TAJ	CPS 4991-201 Mag Stripe Card Reader		336		14								Series/1	0SC
5799-TAK	CPS 4978/4979 Display Station	RPQ-P82520	168		7						24	GC34-1575	Series/1	1SC
5799-TAL	CPS Extension I	RPQ-P82525	55		2						24	SC34-1552	Series/1	1SC
5799-TAQ	CPS Extension II	RPQ-P82526	55		2						24	SC34-1559	Series/1	1SC
5799-TAT	CPS Sort/Merge	RPQ-P82527	138		6						24	SC34-1560	Series/1	1SC
5799-TAW	CPS Disk Table of Contents	RPQ-P82528	28		1						24	SC34-1561	Series/1	1SC
5799-TAY	CPS Disk Spooling	RPQ-P82529	72		3						24	SC34-1563	Series/1	1SC
5799-TBA	CPS Format / Print	RPQ-P82530	72		3						24	SC34-1564	Series/1	1SC
5799-TBB	CPS Operator Station/Debug Pack	RPQ-P82532	240		10						24	SC34-1562	Series/1	1SC
5799-TBC	CPS Auto-Call Interface	RPQ-P82533	144		6						24	SC34-1592	Series/1	1SC
5799-TBD	CPS Commercial Arithmetic	RPQ-P82534	48		2						24	SC34-1566	Series/1	1SC
5799-TBE	CPS 4978/4979 Display Map	RPQ-P82531	120		5						24	GC34-1585	Series/1	1SC
5799-TBQ	CPS Extended Function	RPQ-P82535	83		3						24	GC34-1586	Series/1	1SC
5799-TBT	CPS Address Translator Support	RPQ-P82536	144		7						24	GC34-1601	Series/1	1SC
5799-TBY	RPS Address Translation Version 3	RPQ P82585	180		3								Series/1	0SC
5799-TCB	RPS Indexed Access Method Version 3	RPQ P82570	420		7								Series/1	0SC
5799-TCP	RPS Packet Network Support	RPQ-P10008	2490		64								Series/1	1SE
5799-TCZ	CPS 4963 Subsystem	RPQ-P82541	312		16						24	GC34-1638	Series/1	1SC
5799-TDE	EDX Data Collect Interactive	RPQ-P82600	1425		31							GC34-1652	Series/1	1SC
5799-TDH	RPS Remote Management Utility	RPQ-P82597	420		7							GC34-1663	Series/1	1SC
5799-TDK	CPS 4963/4966 Save/Restore	RPQ-P82539	358		15						24	GC34-1622	Series/1	1SC
-5799-TDR	Universal Billing - Site	RPQ P82612	1875		84								5799-TDT	0SC
-5799-TDT	Universal Billing - Host	RPQ P82613	4580		205								Series/1	0SC
5799-TDM	CPS 4969 Mag Tape Subsystem	RPQ-P82621	1176		59						24	GC34-0347	Series/1	1SC
5799-TEC	RPS Job Stream Processor	RPQ-P82635	533		13							GC34-0398	Series/1	1SE
5799-TEF	RPS SNA Remote Management Utility	RPQ-P82639	220		9							GC34-1711	Series/1	1SE
5799-TEK	CPS 4965 Support	RPQ-P82636	1000		44						24	GC34-1717	Series/1	1SE
5799-TEL	EDX COBOL Host for Series/1	RPQ-P82647			1535						24	GC34-1720	Series/1	1SE
5799-TEP	RPS S/370 Host COBOL for Series/1	RPQ-P82648			1535						24	GC34-1721	Series/1	1SE
5799-TEQ	RPS Pascal	RPQ P82659	3900		208								Series/1	1SX

Number	Program Title	Short Name	OTC	ILC	MLC	DSD	DSI	DSM	HLP	MHL	Mo	MoreInfo	Environment	TPLS
5799-TER	EDX Pascal	RPQ P82658	3900		208								Series/1	1SX
5799-TEY	RPS Letter Writer Version 2	RPQ-P82667	1200		114						12	GH30-0713	Series/1	1SE
5799-TFN	EDX Videotex System SVS/1	RPQ-P82696	13750									6520-3992	Series/1	1SX
5799-TFY	EDX Telephone Message Management System	TMMS	19971									GH36-0250	Series/1	1SH
5799-TGC	Intelligent Workstation Support 3101 Emu	RPQ-Pxxxxx	150									GC34-0545	PC/XT to S/1 to S/370	05X
5799-TGJ	File Inquiry Processor		18500											05C
5799-THK	EDX TMMS/ROLM CBX 9000 Interface		6420										TMMS	1SH
-5799-NHX	Remote Job Entry Workstation RJE	RPQ-WF0358	nc									.GH20-1574	D05/VS	N05C
5799-NHZ	Support for 3330 - 3333-11	RPQ-EF4346	nc									.GH20-4376	D05/VS	N05C
5799-NKG	Airline Control Program ACP	RPQ-P09011	nc									GE20-0423	V51-V52 (Off Line)	N05X
5799-NPK	MSVIZAP for the 3850	RPQ-P87000	nc										MVS/V51	N05C
5799-NQP	ACP Transaction Processing	RPQ-P09026	nc									GH20-2140	5748-T11	N05E
5799-NRF	S.W.I.F.T. for ACF/NCP/VS	RPQ-Y96414	nc									.SC19-5016	3704/3705	N05S
-5799-NMK	Textpack 6 Multipass Equation Print	RPQ-P91010	nc										Displaywriter	N05E
5799-NML	Virtual Storage Measurement Reporter	RPQ-P88023	nc										STOR/MVS,CICS,IMS	N05E
5799-NMR	VM Predictor Data Reduction Package	RPQ P88024	nc										VM	N05E
5799-NXA	Cache Analysis Aid Version 4 - 3880	RPQ P88026	nc										MVS	N05E
5799-NXD	CICS/VS Trace Transform Version 2	RPQ P88027	nc										CICS/VS	N05C
+5799-NYE	X.25 SNA Network Supervisory Function	NSF	nc										XI (5799-BZJ)	N25M
+5799-NYK	APPC Multiple LU Support		nc										System/36 5364	N05E
-5799-NYL	APPC Multiple LU Support	RPQ P84098	nc										System/36	N15A
+59X9-904	3270 Emulation Program Entry Level		185										3278/9 Emul Adapter	05Z
-59X9-904/01	3270 Emul Upgrade from 8665780		75										3278/9 Emul Adapter	05Z
+59X9-932	XENIX tm 2.0		599									SV21-8074	AT+20MB	05Z
+59X9-933	XENIX 2.0, Upg from PCIX/XENIX 1.0, 1.1		299										XENIX/PCIX 1.0, 1.1	05Z
+59X9-934	Upg XENIX or PCIX Devt Sys to 59X9939		299										SoftDev 1.0 or 1.1	05Z
+59X9-935	Upg XENIX or PCIX Text 1.0 to 59X9941		99										Text Form 1.0 or 1.1	05Z
+59X9-939	XENIX tm Software Development System 2.0		599									SV21-8078	XENIX 2.0	05Z
+59X9-941	XENIX tm Text Formatting System 2.0		199									SV21-8080	XENIX 2.0 on AT	05Z
+59X9-943	XENIX tm Extensions 1.0		475										XENIX 2.0	05Z
-59X9-951	3270 Emulation Program Version 2.0		425										SC23-0892 PC, XT, AT, LAN	05Z
-59X9-951/01	3270 Emulation Upgrade from 8665780		190										SC23-0892 9952	05Z
+59X9-951/02	3270 Emulation Upgrade from 59X9904		240										SC23-0892 9953	05Z
-59X9-951/03	3270 Emulation Upgrade from 6322526		75										SC23-0892 9954	05Z
+59X9-959	3270-PC HighLevel Applic Prog Interf 3.0 HLLAPI		195										3270-PC, 3270-AT	05E
+59X9-959/01	3270-PC HLLAPI Upgrade from Versions 1,2 HLLAPI		95										3270-PC, 3270-AT	05E
+59X9-968	3270-PC Control Program Version 3.0		450									GA23-0179	3270-PC, 3270-AT	05M
+59X9-968/01	3270-PC CP 3.0, Workstation Upgrade Pkg.		200									GA23-0179	Versions 1 or 2	05M
+59X9-969	3270-PC Emulation Program Version 3.0	Token-Ring	475										PC, XT, AT	05Z
+59X9-980	3270-PC Emulation Upgrade from Entry Lev	Token-Ring	240										59X9904	05Z
-59X9-981	3270-PC Emulation Upgrade from SNA 3270	Token-Ring	75										6322526	05Z
-59X9-995	3270-PC Emulation Upgrade from Ver 2.0	Token-Ring	75										59X9951	05Z
6024-011	COBOL Compiler		700									6520-3917	PC	05Z
6024-013	Typing Tutor (Diskette Version)		29									6520-3917	PC	05Z
6024-022	Multiplan (R)		250									6520-3917	PC	05Z
6024-023	FACT TRACK tm		90									6520-3917	PC	05Z
6024-024	Arithmetic Games Set 1		60									6520-3917	PC, PCjr	05Z
6024-025	Arithmetic Games Set 2		60									6520-3917	PC, PCjr	05Z
6024-026	General Accounting by BPI tm		425									6520-3917	PC	05Z
6024-027	Accounts Receivable by BPI tm		425									6520-3917	PC	05Z

Number	Program Title	Short Name	OTC	ILC	MLC	DSQ	DSI	DSM	MLP	MML	Mo	MoreInfo	Environment	PLS
6024-028	Payroll by BPI (R)		425									.G520-3917	PC	0SZ
6024-029	Job Cost System by BPI tm		550									.G520-3917	PC	0SZ
6024-030	Inventory Control by BPI tm		425									.G520-3917	PC	0SZ
6024-032	Asynchronous Communication Support		65									G520-3917	PC	0SZ
6024-035	CP/M-86 tm Operating System		259									G520-3917	PC	0SZ
6024-036	3270 Emulation & SNA RJE Support		769									G520-3917	PC	0SZ
6024-037	3270 Binary Synchronous Emulation		769									G520-3917	PC	0SZ
6024-042	3101 Emulation Program		149									G520-3917	PC	0SZ
6024-048	Professional Editor		139									G520-3917	PC,PCjr	0SZ
6024-051	Personal Editor		109									G520-3917	PC,PCjr	0SZ
6024-052	Private Tutor Version 1		55									G520-3917	PC	0SZ
6024-053	BASIC Primer		65									G520-3917	PC	0SZ
6024-062	FileCommand		39									G520-3917	PC	0SZ
6024-063	Learning DOS		45									G520-1107	PC,XT,PCjr,AT,PPC	0SZ
6024-065	Insurance Agency System		2500									G520-3917	PC	0SE
6024-066	Karel the Robot		150									G520-1107	PC,XT,PCjr,PPC	0SZ
6024-067	Dictionary Dog		49									G520-1107	PC,XT,PCjr,PPC,AT	0SZ
6024-069	Computers and Communications		39									G520-3917	PC,XT,PCjr,PPC+60	0SZ
6024-071	Word Proof		65									G520-3917	PC,PCjr,XT	0SZ
6024-072	Monster Math		35									G520-3917	PC,PCjr,XT	0SZ
6024-076	LOGO (R) with Turtle Graphics		175									G520-3917	PC,PCjr	0SZ
6024-077	APL		195									G520-1107	PC,XT	0SZ
6024-078	Writing Private Tutor Courses for the PC		14									G520-1107	PC,XT,AT,PCjr,PPC	0SZ
6024-079	Turtle Power Activity Book		15									G520-1107	Turtle Power PC,AT	0SZ
6024-080	DOS 2 Learning to Use		15									G520-3917	PC	0SZ
6024-081	BASIC - A Private Tutor		39									G520-3917	PC	0SZ
6024-082	Animation Creation (Feature 4082)		45									G520-3917	PC,PCjr,XT	0SZ
6024-083	Punctuation Skills		55									G520-1107	Private Tutor 2.00	0SZ
6024-084	Language Skills		55									G520-1107	Private Tutor 2.00	0SZ
6024-085	Capitalization Skills		55									G520-1107	Private Tutor 2.00	0SZ
6024-086	Spelling Skills		55									G520-1107	Private Tutor 2.00	0SZ
6024-087	Mouser (Feature 4087)		35									G520-3917	PCjr+DOS 2.1	0SZ
6024-088	ScubaVenture (Feature 4088)		35									G520-3917	PCjr+DOS 2.1	0SZ
6024-089	Drawing Assistant		169									G520-1107	PC, PCjr,XT,AT+color	0SZ
6024-090	Homeword tm (Feature 4090)		75									G520-3917	PCjr	0SZ
6024-091	Crossfire (Feature 4091)		35									G520-3917	PCjr+DOS 2.1	0SZ
6024-092	Mine Shaft (Feature 4092)		35									G520-3917	PCjr+DOS 2.1	0SZ
6024-094	Bumble Games tm (Feature 4094)		45									G520-3917	PC,PCjr,XT+color	0SZ
6024-095	Juggles' Butterfly tm (Feature 4095)		39									G520-3917	PC,PCjr,XT	0SZ
6024-096	Bumble Plot tm (Feature 4096)		45									G520-3917	PC,PCjr,XT	0SZ
6024-097	Gertrude's Secrets		49									G520-3917	PC,XT,PCjr+Color	0SZ
6024-098	Gertrude's Puzzles		49									G520-1107	PC,XT,PCjr,PPC	0SZ
6024-099	Rocky's Boots		50									G520-1107	PC,XT,PCjr,AT+color	0SZ
6024-100	Personal Communications Mgr Feature 4100		109									G520-3917	PC,PCjr,XT	0SZ
6024-101	BASIC Interpreter (Feature 4101)		75									G520-3917	PCjr+DOS 2.1	0SZ
6024-104	Missing Letters		50									G520-1107	PC,PCjr,XT,AT,PPC	0SZ
6024-107	Cluster Program		99									G520-3917	PC,PCjr,PPC,XT	0SZ
6024-109	Turtle Power (Feature 4109)		55									G520-3917	PC,PCjr,XT	0SZ
6024-111	Fixed Disk Organizer (Feature 4111)		55									G520-3917	PC,XT	0SZ
6024-112	Adventures in Math (Feature 4112)		39									G520-3917	PC,PCjr,XT	0SZ



Number	Program Title	Short Name	OTC	ILC	MLC	DSO	DSI	DSM	HLP	HML	Mo	MoreInfo	Environment	TPLS
6024-113	Private Tutor Version 2		55									G520-1107	PC,XT,PCjr,PPC+DOS2+	OSZ
6024-120	Disk Operating System Version 2.1	DOS	85									G520-3917	PC,XT,PCjr	OSZ
6024-121	Hydrologic Cycle - Earth Science Series		55									G520-1107	PC,XT,PCjr,PPC+DOS2+	OSZ
6024-122	Ground Water - Earth Science Series		55									G520-1107	PC,XT,PCjr,PPC+DOS2+	OSZ
6024-123	Surface Water - Earth Science Series		55									G520-1107	PC,XT,PCjr,PPC+DOS2+	OSZ
6024-124	Moisture in the Atmosphere		55									G520-1107	PC,XT,PCjr,PPC+DOS2+	OSZ
6024-127	FORTRAN Compiler Version 2		385									G520-3917	DOS2+	OSZ
6024-128	Pascal Compiler Version 2		385									G520-3917	DOS2+	OSZ
6024-129	BASIC Primer Version 2		65									G520-1107	PC,XT,PCjr	OSZ
6024-130	Home Budget, jr (Feature 4)30)		45									G520-3917	PC,PCjr,XT	OSZ
6024-134	3278/79 Emulation Control Program		235									G520-3917	Personal Computer,XT	OSE
6024-135	Planning Assistant Solutions		99									G520-1107	PC,PCjr,XT,AT,PPC	OSZ
6024-136	Logo Learner		110									G520-1107	PC,PCjr,XT,AT,AT,PPC	OSZ
+6024-137	Bouncy Bee Learns Letters		70									G520-1107	PC,XT,AT,PPC,PCjr	OSZ
6024-138	Sort Version 1		189									G520-3917	PC	OSZ
+6024-139	Bouncy Bee Learns Words		70									G520-1107	PC,XT,AT,PPC,PCjr	OSZ
6024-143	Professional Debug Facility		165									G520-1107	PC,XT,PPC	OSZ
6024-144	Writing Assistant		165									G520-3917	PC,XT,PCjr,PPC	OSZ
6024-145	Filing Assistant		165									G520-3917	PC,XT,PCjr,PPC	OSZ
6024-146	Reporting Assistant		145									G520-3917	PC,XT,PCjr,PPC	OSZ
6024-147	Graphing Assistant		165									G520-3917	PC,XT,PCjr,PPC	OSZ
6024-148	Planning Assistant		165									G520-1107	PC,XT,PCjr,PPC	OSZ
6024-149	Data Encoder		109									G520-1107	PC,XT,PCjr,PPC,AT	OSZ
6024-150	Assistant Home Solutions		69									G520-3917	PC,XT,PCjr,PPC	OSZ
6024-151	Executive Solutions		69									G520-3917	PC,XT,PCjr,PPC	OSZ
6024-152	Accounting Solutions		89									G520-3917	PC,XT,PCjr,PPC	OSZ
+6024-159	PC/Classroom LAN Administration Syst 1.0 PC/CLASS		995										Advanced NetWare 2.0	01Z
6024-165	Listen to Learn		195									G520-1107	PC,PCjr,XT,AT,PPC	OSZ
6024-167	Turtle Power Thinker's Guide		11									G520-1107	Turtle Power	OSZ
6024-172	Electric Poet		75									G520-1107	PC,PPC,PCjr,AT,XT	OSZ
6024-175	Virtual Machine / Personal Computer 1.1 VM/PC		1150									G520-1095	XT/370,AT/370	05H
6024-179	PCWriter		215									G520-1107	PC,XT,PPC	OSZ
6024-182	Cluster Program - Five Pack		439									G520-3917	PC,PCjr,PPC,XT	OSZ
6024-186	Print Screen Utility		35									G520-3917	PC,XT+DOS2	OSZ
6024-187	DisplayComm Binary Synchronous Communica		409									G520-3917	PC,XT,PPC	OSZ
6024-188	DisplayWrite 1		99									G520-3917	PC,XT,PCjr,3270-PC	OSZ
6024-190	DisplayWrite Legal Support		179									G520-3917	DisplayWrite 2	OSZ
*6024-193	Macro Assembler Version 2		189									G520-1107	PC,PCjr,XT,PPC,AT	OSZ
*6024-196	Graphics Development Toolkit		385									G520-1107	Replaced by 6280082	OSZ
*6024-197	DisplayWrite Medical Support		179									G520-1107	DisplayWrite 2 V1.1	OSZ
6024-200	FORTRAN 77 Professional ANSI Comp+Libr		649									G520-1107	8087/80287+DOS 2.1+	OSZ
6024-201	General Purpose Interface Bus Adapter	GPIB	89									G520-1107	GPIB+DOS2+	OSZ
6024-202	Data Acquisition and Control Adapter		175									G520-1107	DACS adapter+DOS2+	OSZ
6024-203	Graphical Kernel System	GKS ANSI	319									G520-1107	PC,XT,PPC,AT+DOS 2.1	OSZ
6024-204	Plotting System		245									G520-1107	PC,PPC,XT,AT+DOS2.1+	OSZ
6024-205	Graphical File System	Metafile	189									G520-1107	Graphics/Prof CRT	OSZ
6024-206	Graphics Terminal Emulator		319									G520-1107	PC,XT,PPC,AT+DOS2.1+	OSZ
6024-210	DisplayComm Bisynch Communications V1.1		409									G520-1107	PC,AT+DOS 2.1 or 3.0	OSZ
6024-211	DOS 3.1 (PC Network)		85									G520-1107	All PC	OSZ
6024-213	DOS Technical Reference (Book)		109									G520-1107	DOS 3.1	01Z

Number	Program Title	Short Name	OTC	ILC	MLC	DSO	DSI	DSM	MLP	MML	Mo	MoreInfo	Environment	TPLS
*6024-215	BASIC Compiler Upgrade from 1.0 to 2.0		209									0520-1107	DOS 2.1 or later	05Z
6024-216	BASIC Compiler 2.0		539									0520-1107	DOS 2.1 or later	05Z
6024-293	Comma Cat		49									0520-1107	PC,XT,PCjr,PP,At	05Z
6024-294	Primary Editor		60									0520-1107	PC,PCjr,XT,AT,PPC	05Z
6024-297	Basic Number Concepts (Private Tutor)		55									0520-1107	PC,PCjr,XT,AT,PPC	05Z
6024-299	Color Paint		99									0520-1107	PCjr+color	05Z
6024-304	I Can Be Anything		50									0520-1107	PC,PCjr,XT,AT,PPC	05Z
6024-305	Math Computation Skills (Private Tutor)		55									0520-1107	PC,PCjr,XT,AT,PPC	05Z
6024-306	Document Retrieval Assistant		149									0520-1107	PC, PCjr,XT,AT,PPC	05Z
6024-307	Preparing for Geometry and Algebra	Priv Tutor	55									0520-1107	PC,PCjr,XT,AT,PPC	05Z
6024-308	Solving Math Word Problems (Priv Tutor)		55									0520-1107	PC,PCjr,XT,AT,PPC	05Z
6024-316	Cell Functions: Growth & Mitosis		65									0520-1107	PC,PCjr,XT,AT,PPC	05Z
6024-317	Chemicals of Life I: Structure of Matter	Biolog Ser	65									0520-1107	PC,PCjr,XT,AT,PPC	05Z
6024-318	Leaf Structure & Physiology (Biol Series)		65									0520-1107	PC,PCjr,XT,AT,PPC	05Z
6024-319	Lights Plants & Photosynthesis (BiolSer)		65									0520-1107	PC,PCjr,XT,AT,PPC	05Z
6024-320	Passive Transport, Diffusion and Osmosis	Biolog Ser	65									0520-1107	PC,PCjr,XT,AT,PPC	05Z
6024-321	Plants: Growth & Specialization	Biolog Ser	65									0520-1107	PC,PCjr,XT,AT,PPC	05Z
6024-322	Earthquakes (Earth Science Series)		55									0520-1107	PC,PCjr,XT,AT,PPC	05Z
6024-323	Volcanos (Earth Science Series)		55									0520-1107	PC,PCjr,XT,AT,PPC	05Z
+6024-324	landslides 1.0		60									0520-1107	PC,XT,AT,PCjr,PPC	05Z
6024-325	Reading Comprehension Skills (Priv Tutor)		55									0520-1107	PC,PCjr,XT,AT,PPC	05Z
6024-326	Vocabulary Building Skills (Priv Tutor)		55									0520-1107	PC,PCjr,XT,AT,PPC	05Z
6024-327	Word Knowledge Skills (Private Tutor)		55									0520-1107	PC,PCjr,XT,AT,PPC	05Z
+6024-330	Reading for Meaning Series: Grade 2		150									0520-1107	PC,XT,AT,PCjr+color	05Z
+6024-333	Parts of Speech Series: Grades 3-4		100									0520-1107	PC,XT,AT,PCjr+color	05Z
+6024-334	Parts of Speech Series: Grades 5-6		100									0520-1107	PC,XT,AT,PCjr+color	05Z
+6024-336	Reading for Meaning Series: Grades 3-4		150									0520-1107	PC,XT,AT,PCjr+color	05Z
+6024-337	Reading for Meaning Series: Grades 5-6		150									0520-1107	PC,XT,AT,PCjr+color	05Z
+6024-338	Reading for Meaning Series: Grades 7-8		150									0520-1107	PC,XT,AT,PCjr+color	05Z
+6024-339	Touch Typing for Beginners		85									0520-1107	PC,XT,AT,PCjr+color	05Z
6024-343	Pathology: Diseases and Defenses	Biolog Ser	65									0520-1107	PC,PCjr,XT,AT,PPC	05Z
6024-344	Chemicals of Life II: Water, Carbo Lipid	BiolSeries	65									0520-1107	PC,PCjr,XT,AT,PPC	05Z
6024-345	Modern Genetics: Chromosomes & Coding	Biolog Ser	65									0520-1107	PC,PCjr,XT,AT,PPC	05Z
6024-346	Human Life ProcessesI: Cellular Physiolo	Biolog Ser	65									0520-1107	PC,PCjr,XT,AT,PPC	05Z
+6024-347	Spelling Series: Grades 1-2		110									0520-1107	PC,XT,AT,PCjr+color	05Z
+6024-348	Spelling Series: Grades 3-4		110									0520-1107	PC,XT,AT,PCjr+color	05Z
+6024-349	Spelling Series: Grades 5-6		110									0520-1107	PC,XT,AT,PCjr+color	05Z
+6024-350	Vocabulary Series: Grades 3-4		110									0520-1107	PC,XT,AT,PCjr+color	05Z
+6024-351	Vocabulary Series: Grades 5-6		110									0520-1107	PC,XT,AT,PCjr+color	05Z
+6024-352	Vocabulary Series: Grades 7-8		495									0520-1107	PC,XT,AT,PCjr+color	05Z
+6024-353	Math Practice: Grades 1-2		95									0520-1107	PC,XT,AT,PCjr+color	05Z
+6024-354	Math Practice: Grades 3-4		95									0520-1107	PC,XT,AT,PCjr+color	05Z
+6024-355	Math Concepts Series: Grades 1-2		175									0520-1107	PC,XT,PCjr,AT 128k	05Z
+6024-356	Math Concepts Series: Pre-school		150									0520-1107	PC,XT,PCjr,AT 128k	05Z
+6024-357	Math Concepts Series: Grades 3-4		175									0520-1107	PC,XT,PCjr,AT 128k	05Z
+6024-358	Reading for Information: Grades 3-4		125									0520-1107	PC,XT,AT,PCjr+color	05Z
+6024-359	Reading for Information: Grades 5-6		150									0520-1107	PC,XT,AT,PCjr+color	05Z
+6024-360	Reading for Information: Grades 7-8		150									0520-1107	PC,XT,AT,PCjr+color	05Z
+6024-363	Touch Typing for Beginners	School pkg	385									0520-1107	PC,XT,AT,PCjr+color	05Z
+6024-364	Reading for Meaning Series: Grades 7-8	School pkg	675									0520-1107	PC,XT,AT,PCjr+color	05Z

Number	Program Title	Short Name	OTC	ILC	MLC	DSO	DSI	DSM	MLP	MML	Mo	MoreInfo	Environment	TPLS
+6024-366	Reading for Information: Grades 7-8	School pkg	750150										6520-1107 PC,XT,AT,PCjr+color	05Z
+6024-368	Math Concepts Series: Grades 1-2	School pkg	789										6520-1107 PC,XT,PCjr,AT 128k	05Z
+6024-369	Math Concepts Series: Grades 3-4	School pkg	789										6520-1107 PC,XT,PCjr,AT 128k	05Z
+6024-370	Math Concepts Series: Pre-school	School pkg	675										6520-1107 PC,XT,PCjr,AT 128k	05Z
+6024-371	Math Practice: Grades 3-4	School pkg	429										6520-1107 PC,XT,AT,PCjr+color	05Z
+6024-372	Math Practice: Grades 1-2	School pkg	429										6520-1107 PC,XT,AT,PCjr+color	05Z
+6024-374	Reading for Meaning Series: Grades 3-4	School pkg	675										6520-1107 PC,XT,AT,PCjr+color	05Z
+6024-375	Reading for Meaning Series: Grades 5-6	School pkg	675										6520-1107 PC,XT,AT,PCjr+color	05Z
+6024-376	Vocabulary Series: Grades 3-4	School pkg	495										6520-1107 PC,XT,AT,PCjr+color	05Z
+6024-377	Vocabulary Series: Grades 5-6	School pkg	495										6520-1107 PC,XT,AT,PCjr+color	05Z
+6024-378	Parts of Speech Series: Grades 3-4	School pkg	450										6520-1107 PC,XT,AT,PCjr+color	05Z
+6024-379	Parts of Speech Series: Grades 5-6	School pkg	450										6520-1107 PC,XT,AT,PCjr+color	05Z
+6024-380	Spelling Series: Grades 1-2	School pkg	495										6520-1107 PC,XT,AT,PCjr+color	05Z
+6024-381	Spelling Series: Grades 3-4	School pkg	495										6520-1107 PC,XT,AT,PCjr+color	05Z
+6024-382	Spelling Series: Grades 5-6	School pkg	495										6520-1107 PC,XT,AT,PCjr+color	05Z
+6024-384	Reading for Meaning Series: Grade 2	School pkg	675										6520-1107 PC,XT,AT,PCjr+color	05Z
+6024-386	Reading for Information: Grades 3-4	School pkg	565										6520-1107 PC,XT,AT,PCjr+color	05Z
+6024-387	Reading for Information: Grades 5-6	School pkg	675										6520-1107 PC,XT,AT,PCjr+color	05Z
6024-388	Leaf Structure & Physiology (Biol Ser)	School Pkg	295										6520-1107 PC,PCjr,XT,AT,PPC	05Z
6024-389	Passive Transport, Diffusion and Osmosis	School Pkg	295										6520-1107 PC,PCjr,XT,AT,PPC	05Z
6024-390	Pathology: Diseases and Defenses	School Pkg	295										6520-1107 PC,PCjr,XT,AT,PPC	05Z
6024-391	Cell Functions: Growth & Mitosis (BioSer)	School Pkg	295										6520-1107 PC,PCjr,XT,AT,PPC	05Z
6024-392	Plants: Growth & Specialization	School Pkg	295										6520-1107 PC,PCjr,XT,AT,PPC	05Z
6024-393	Lights Plants & Photosynthesis (BiolSer)	School Pkg	295										6520-1107 PC,PCjr,XT,AT,PPC	05Z
6024-394	Chemicals of Life II: Water, Carbo Lipid	School Pkg	295										6520-1107 PC,PCjr,XT,AT,PPC	05Z
6024-395	Modern Genetics: Chromosomes & Coding	School Pkg	295										6520-1107 PC,PCjr,XT,AT,PPC	05Z
6024-397	Chemicals of Life I: Structure of Matter	School Pkg	295										6520-1107 PC,PCjr,XT,AT,PPC	05Z
+6024-403	Investigating Acceleration		75										6520-1107 PC,PCjr,XT,AT+color	05Z
+6024-404	Investigating Gravitational Force		75										6520-1107 PC,PCjr,XT,AT+color	05Z
+6024-405	Investigating Thermal Energy		75										6520-1107 PC,PCjr,XT,AT+color	05Z
+6024-406	Investigating Conservation of Energy		75										6520-1107 PC,PCjr,XT,AT+color	05Z
+6024-407	Cytology & Histology: Cells & Tissues		65										6520-1107 PC,PCjr,XT,AT+color	05Z
+6024-408	Mendelian Genetics: Inheritance		65										6520-1107 PC,PCjr,XT,AT+color	05Z
+6024-409	Chemicals of Life: Proteins & Nucleic Ac		65										6520-1107 PC,PCjr,XT,AT+color	05Z
+6024-410	Regulation & Homeostasis		65										6520-1107 PC,PCjr,XT,AT+color	05Z
+6024-411	Human Life Processes		65										6520-1107 PC,PCjr,XT,AT+color	05Z
+6024-412	Environment: Habitats & Ecosystems		65										6520-1107 PC,PCjr,XT,AT+color	05Z
+6024-413	The Environment: Cycles & Interactions		65										6520-1107 PC,XT,AT,PCjr+color	05Z
+6024-414	Human Life: Development & Differentiatn		65										6520-1107 PC,XT,AT,PCjr+color	05Z
+6024-415	Pollination & Fert: Seeds,Fruits,Embryos		65										6520-1107 PC,XT,AT,PCjr+color	05Z
+6024-416	Taxonomy: Classification & Organization		65										6520-1107 PC,XT,AT,PCjr+color	05Z
+6024-417	Math Concepts Series: Grades 5-6	School pkg	879										6520-1107 PC,XT,PCjr,AT 128k	05Z
+6024-419	Math Concepts Series: Grades 7-8	School pkg	879										6520-1107 PC,XT,PCjr,AT 128k	05Z
+6024-421	Math Practice: Grades 5-6	School pkg	429										6520-1107 PC,XT,AT,PCjr+color	05Z
+6024-422	Math Practice: Grades 7-8	School pkg	429										6520-1107 PC,XT,AT,PCjr+color	05Z
+6024-427	Math Concepts Series: Grades 5-6		195										6520-1107 PC,XT,PCjr,AT 128k	05Z
+6024-429	Math Concepts Series: Grades 7-8		195										6520-1107 PC,XT,PCjr,AT 128k	05Z
+6024-431	Math Practice: Grades 5-6		95										6520-1107 PC,XT,AT,PCjr+color	05Z
+6024-432	Math Practice: Grades 7-8		95										6520-1107 PC,XT,AT,PCjr+color	05Z
+6024-437	Cytology & Histology: Cells & Tissues	SchoolPack	295										6520-1107 PC,PCjr,XT,AT+color	05Z

Number	Program Title	Short Name	OTC	ILC	MLC	DSO	DSI	DSM	MLP	MML	Mo	MoreInfo	Environment	TPLS
+6024-438	Mendelian Genetics: Inheritance	SchoolPack	295									6520-1107	PC,PCjr,XT,AT+color	0SZ
+6024-439	Chemicals of Life: Proteins & Nucleic Ac	SchoolPack	295									6520-1107	PC,PCjr,XT,AT+color	0SZ
+6024-440	Regulation & Homeostasis	SchoolPack	295									6520-1107	PC,PCjr,XT,AT+color	0SZ
+6024-441	Human Life Processes	SchoolPack	295									6520-1107	PC,PCjr,XT,AT+color	0SZ
+6024-442	Environment: Habitats & Ecosystems	SchoolPack	295									6520-1107	PC,PCjr,XT,AT+color	0SZ
+6024-443	The Environment: Cycles & Interactions	School pkg	295									6520-1107	PC,XT,AT,PCjr+color	0SZ
+6024-444	Human Life: Development & Differentiatn	School pkg	295									6520-1107	PC,XT,AT,PCjr+color	0SZ
+6024-445	Pollination & Fert: Seeds,Fruits,Embryos	School pkg	295									6520-1107	PC,XT,AT,PCjr+color	0SZ
+6024-446	Taxonomy: Classification & Organization	School pkg	296									6520-1107	PC,XT,AT,PCjr+color	0SZ
-6024-449	Mainframe Comm Asst 1.05 Upgr from 1.0		85									6024160		0SZ
+6024-451	Mainframe Communication Assistant		199									PC,XT,AT,PCjr		0SZ
+6024-452	Mainframe Communication Assistant		199									3.5" drive		0SZ
+6024-453	Topview 1.1		175									PC,XT,AT,PPC		0SG
+6024-454	Topview Programmer's Toolkit 1.1		429									Topview 1.1		0SG
-6024-455	Topview Upgrade from 1.0		87									6024131		0SG
-6024-456	Topview Prog's Toolkit 1.1, Upg from 1.0		152									6024133		0SG
+6024-464	Investigating Electric Fields		75									6520-1107	PC,XT,AT,PCjr+color	0SZ
+6024-465	Investigating Models of Light		75									6520-1107	PC,XT,AT,PCjr+color	0SZ
+6024-466	Investigating Wave Interference		75									6520-1107	PC,XT,AT,PCjr+color	0SZ
+6024-468	Get Set for Writing to Read		295									PCjr+Speech attachmt		0SZ
6024-469	Get Set for Writing to Read - Book Set		6									6024468		0SZ
+6024-470	Measurement Process: Distance & Area		75									6520-1107	PC,XT,AT,PCjr+color	0SZ
+6024-471	Theory Formation: Reflections & Patterns		75									6520-1107	PC,XT,AT,PCjr+color	0SZ
+6024-472	Scientific Models: Batteries&Bulbs&Fam1		75									128k+color		0SG
+6024-473	Ratio Reasoning: Crystals and Speed		75									128k+color		0SG
+6024-474	Concept Devt: Heat, Temperature & Graphs		75									128k+color		0SG
6025-072	Hardware Maintenance and Service 5150		155									6520-3917	PC	0SZ
6071-282	ATI (R) Training for VisiCalc (R)		75									GB30-2037	PC	0SY
6085-980	WordStar (R)		495									.GB30-2037	PC	0SY
6085-982	MailMerge (R)		250									.GB30-2037	PC	0SY
6085-985	FriendlyWare (R) PC Introductory Set		49									.GB30-2037	PC	0SY
6085-988	VisiTrend/Plot tm		300									.GB30-2037	PC	0SY
6085-990	Temple of Aphai (R)		40									.GB30-2037	PC	0SY
6085-992	Project Scheduler 5000 Plus Graphics tm		395									.GB30-2037	PC,XT	0SY
6085-994	Midway Campaign tm		21									.GB30-2037	PC	0SY
6086-002	Word III tm		550									.GB30-2037	PC,XT,3270-PC+D052	0SY
6086-003	Microsoft (R) Project		395									.GB20-2037	PC,XT,PCjr,AT,3270PC	0SY
6086-008	Microsoft Chart		295									.GB20-2037	PC,XT,AT,PCjr,3270PC	0SY
6086-009	dBASE II (R)		495									.GB30-2037	PC,3270-PC	0SY
+6086-012	Javelin tm		695									.GB30-2037	PC,XT,AT,3270-PC	0SY
6086-015	Personal Investor (R)		145									.GB30-2037	PC	0SY
6086-016	Computer Stocks and Bonds tm		25									.GB30-2037	PC	0SY
6086-020	VisiFile tm		300									.GB30-2037	PC	0SY
6086-021	VisiSchedule tm		300									.GB30-2037	PC	0SY
6089-578	BASIC on 8" Diskette		195									GC22-9184	CS05 Extensions	0SW
6089-579	Operating System Extensions on 8" Disk	CS05	155									GC22-9199	CS9000	0SW
6092-497	Operating System Extensions on 5.25"Disk	CS05	155									GC22-9199	CS9000	0SW
6092-498	BASIC on 5.25" Diskette		195									GC22-9184	CS05 Extensions	0SW
6092-523	Pascal on 8" Diskette		595									GC22-9190	CS05 Extensions	0SW
6092-524	Pascal on 5.25" Diskette		595									GC22-9190	CS05 Extensions	0SW

Number	Program Title	Short Name	OTC	ILC	MLC	DSO	DSI	DSM	MLP	MML	Mo	MoreInfo	Environment	TPLS
6092-525	FORTRAN 77 on 8" Diskette		595										CS05 Extensions	05M
6092-526	FORTRAN 77 on 5.25-inch Diskette		595									GC22-9194	CS05 Extensions	05M
6092-632	Cross Clues (R)		30									.GB30-2037	PC	05Y
6092-651	5250 Emulation Prog for PC or XT		164									G520-3917	PC,XT+S/34,36,38	15X
6092-656	5250 Emulation Convenience Kit		745									G520-1107	PC+S/34,38	05X
6109-558	5520 Personal Computer Attachment Ver 2		284									G520-2045	PC, XT	05E
6109-558/01	5520 Installation Convenience Kit		729										2882	05E
6113-650	5218 Printer Sharing (Feature 4471)		625									G570-2063	PC,XT	05Z
6113-651	5218 Printer Attachment Convenience Pac		220									G570-2063	PC,XT	05Z
6168-460	Virtual Device Interface Drivers		nc									S126-0094	Toolkit (6024196)	NO5Z
6179-243	C Compiler on 8" Diskette	XENIX tm	595										XENIX+System 9000	05M
6179-244	C Compiler on 5.25" Diskette	XENIX tm	595										XENIX+System 9000	05M
6187-154	Managing Time Effectively	Demo	113										PC	05Y
6187-155	Understanding Personal Interaction Style Demo		88										PC	05Y
+6187-156	DIAGRAM-MASTER tm		345									.GB30-2037	PC,XT,AT,3270-PC	05Y
+6187-159	PCemas tm		4995									.GB30-2037	AT	05Y
+6187-160	PCemas tm Report Generator		695									.GB30-2037	PCemas	05Y
+6187-161	R:BASE 5000 Multi-user		1500									.GB30-2037	PC,XT,AT	05Y
6187-163	BPI (R) Accounts Payable		595										PC	05Y
6187-164	BPI (R) Accounts Receivable		595										PC	05Y
6187-165	BPI (R) General Accounting		595										PC	05Y
6187-166	BPI (R) Information Management		425										PC	05Y
6187-167	BPI (R) Inventory Control		795										PC	05Y
6187-168	BPI (R) Job Cost		795										PC	05Y
6187-169	BPI (R) Payroll		595										PC	05Y
6187-170	SuperCalc5 (R) (Feature 9431)		69									.GB30-2037	PCjr	05Y
6187-183	Sign Master tm (Feature 9242) Ver 5.05		245									.GB30-2037	PC,XT,3270-PC,AT	05Y
6187-184	dBASE III Plus tm		695									.GB30-2037	PC,XT,3270-PC,AT,RT	05Y
6187-185	Framework II tm		695									.GB30-2037	PC,XT,3270-PC,AT,RT	05Y
6187-187	Symphony tm (Feature 9448)		695									.GB30-2037	PC,XT,PPC	05Y
6187-188	dBASE II - Multiuser		995									.GB30-2037	PC	05Y
6187-190	SIDEKICK tm		85									.GB30-2037	PC,XT,AT,3270-PC	05Y
6187-191	Overhead Express tm		195									.GB20-2037	PC,XT,3270-PC,AT	05Y
6187-192	SIDEWAYS tm		70									.GB20-2037	PC,XT,3270-PC,AT	05Y
6187-201	World Geography Facts		150										PC	05Y
6187-208	TCS Client Ledger System tm		1695									.GB30-2037	PC,XT,AT	05Y
6187-211	BPI (R) Accounts Receivable	Demo	50										PC	05Y
6187-212	BPI (R) General Accounting	Demo	50										PC	05Y
6187-213	BPI (R) Information Management	Demo	50										PC	05Y
6187-214	BPI (R) Inventory Control	Demo	50										PC	05Y
6187-215	BPI (R) Job Cost	Demo	50										PC	05Y
6187-216	BPI (R) Payroll	Demo	50										PC	05Y
6187-217	Thoughtware (R) Sampler		19									.GB30-2037	PC,XT,PCjr+DOS2	05Y
6187-230	Timberline TS-Reporter I		190									.GB20-2037	PC,XT,AT	05Y
6187-231	REVELATION tm		950									.GB30-2037	PC,XT,AT,3270-PC	05Y
6187-232	Network REVELATION tm 4-User Upgrade		500									.GB30-2037	PC,XT,AT,3270-PC	05Y
6187-234	ENERGRAPHICS tm		350									.GB30-2037	PC,XT,3270-PC+color	05Y
6187-236	ENERGRAPHICS tm Plotter		100									.GB30-2037	ENERGRAPHICS+Plotter	05Y
6187-238	SAT Word Attack! Data Disk		20										PC	05Y
6187-241	GOLF'S BEST tm		50										PC	05Y

Number	Program Title	Short Name	OTC	ILC	MLC	DSO	DSI	DSM	MLP	MML	Mo	MoreInfo	Environment	TPLS
6187-242	Electric Desk tm		345									.GB30-2037	PC,XT,3270-PC,AT	05Y
6187-244	ThinkTank tm		195									.GB30-2037	PC,XT	05Y
6187-245	CLOUT		249									.GB30-2037	PC,XT,3270-PC+R:base	05Y
6187-246	R-B 4000 Extended Report Writer	XRM	150									.GB30-2037	PC,XT,3270-PC	05Y
6187-248	Client & Lawyer Financial System	Manac	975									.GB30-2037	XT,AT	05Y
6187-249	Client Files, Conflict & Dates System	Manac	450									.GB30-2037	XT,AT	05Y
6187-250	Law Firm Financial System	Manac	450									.GB30-2037	PC,XT,AT	05Y
6187-251	Symphony Spelling Checker		139									.GB30-2037	Symphony tm	05Y
6187-252	Symphony Text Outliner		139									.GB30-2037	Symphony tm	05Y
6187-256	BPI Self Training Series - Accounts Paya		70										PC	05Y
6187-257	BPI Self Training Series - Accounts Rec		70										PC	05Y
6187-258	BPI Self Training Series - General Acctg		70										PC	05Y
6187-260	BPI (R) Upgrade Kit 195		195										PC	05Y
6187-261	BPI (R) Upgrade Kit 195		295										PC	05Y
6187-262	REVELATION tm Tutorial		25									.GB30-2037	REVELATION	05Y
6187-266	Client & Lawyer Financial System	Demo	100										PC	05Y
6187-267	Client Files, Conflicts and Dates	Demo	100										PC	05Y
6187-268	Law Firm Financial Management	Demo	100										PC	05Y
6187-270	MATH/PC-LIBRARY tm		440									.GB30-2037	PC,XT,AT,RT	05Y
6187-271	STAT/PC-LIBRARY tm	IMSL	440									.GB30-2037	PC,XT,AT,RT	05Y
6187-272	Rags to Riches Ledger		99										PC	05Y
6187-273	Rags to Riches Accounts Payable		99										PC	05Y
6187-274	Rags to Riches Accounts Receivable		99										PC	05Y
6187-275	Rags to Riches Accounts Sales		nc										PC	N05Y
6187-276	WordMARK tm		495									.GB30-2037	PC,XT,AT,RT	05Y
6187-277	NAG tm FORTRAN PC50 Library		345									.GB30-2037	PC,XT,AT,RT	05Y
6187-278	The Scientific Desk tm		420									.GB30-2037	PC,XT,AT,RT	05Y
6187-279	Andrew Tobias' Managing Your Money		199									.GB30-2037	PC,XT,AT,PCjr	05Y
6187-281	T3 tm Scientific Word Processing System		595									.GB30-2037	PC,XT,AT/370,AT,RT	05Y
6187-282	Excelerator		8400									.GB30-2037	3270-PC,XT,AT	05Y
6187-284	Spotlight tm		75									.GB30-2037	PC,XT	05Y
6187-287	Rags to Riches Ledger	Demo	20										PC	05Y
6187-288	Rags to Riches Accounts Payable	Demo	20										PC	05Y
6187-289	Rags to Riches Accounts Receivable	Demo	20										PC	05Y
6187-290	Rags to Riches Accounts Sales	Demo	20										PC	05Y
6187-293	BL Accounting Kit		2995										PC	05Y
6187-294	Business Analyzer		395										PC	05Y
6187-295	The Business Letterseries		195										PC	05Y
6187-296	LetterWriter		395										PC	05Y
6187-297	Personal Tax Planner		295										PC	05Y
6187-300	The Business Letterseries	Demo	39										PC(Business Library)	05Y
6187-301	The LetterWriter	Demo	79										PC(Business Library)	05Y
6187-302	Personal Tax Planner	Demo	59										PC(Business Library)	05Y
6187-303	Magic Menu Network tm		500									.GB30-2037	PC,XT,AT,3270-PC	05Y
6187-306	Rags to Riches Dealer Selling Kit	Demo	15										PC	05Y
6187-307	Computer Preparation for the SAT tm		79									.GB30-2037	PC,XT,PCjr	05Y
6187-311	WordStar 2000 (R)		495									.GB30-2037	PC,XT,AT,RT	05Y
6187-313	WordStar 2000 Plus (R)		595									.GB30-2037	PC,XT,AT	05Y
6187-318	Litigation Support Version B		450									.GB30-2037	XT,AT	05Y
6187-323	PC PicturePAK tm - Holidays		195									.GB30-2037	PC,XT,PCjr,AT,3270PC	05Y

Number	Program Title	Short Name	OTC	ILC	MLC	DSO	DSI	DSM	MLP	MML	Mo	MoreInfo	Environment	TPLS
6187-324	LABTECH NOTEBOOK (R)		895									.GB30-2037	PC,PC/XT,AT	05Y
6187-326	TURBO PASCAL		70									.GB30-2037	PC,XT,AT,PCjr	05Y
6187-327	PC PicturePak The PC Family		195									.GB30-2037	PC,XT,PCjr,AT	05Y
6187-330	MSC/pal 2		1995									.GB30-2037	PC,XT,AT	05Y
6187-331	MSC/case		895									.GB30-2037	PC,XT,AT,3270-PC	05Y
6201-866	Billing	BMAS	995									.SB30-3557	System/36 PC	05G
6201-867	Accounts Receivable	BMAS	995									.SB30-3517	System/36 PC	05G
6201-868	General Ledger	BMAS	995									.SB30-3525	System/36 PC	05G
6201-869	Accounts Payable	BMAS	995									.SB30-3533	System/36 PC	05G
6201-870	Inventory Accounting	BMAS	995									.SB30-3541	System/36 PC	05G
6201-871	Payroll	BMAS	995									.SB30-3549	System/36 PC	05G
6201-872	Business Report Application Developmt Sys	BRADS	1250									.G280-0237	System/36 PC	05G
+6205-238	dBASE tm / Answer		550									GB20-2037	Answer/DB 5798-DWG	05H
+6205-239	Lotus tm / Answer		550									GB20-2037	Answer/DB 5798-DWG	05H
+6205-272	Electric Desk tm Academic Edition		64									.GB30-2037	PC,XT,AT,jr	05Y
+6205-273	Electric Desk tm Academic Edition		64									.GB30-2037	PCC 3.5" drive	05Y
6205-276	Word Perfect tm (Spanish Version)		495									.GB30-2037	PC,XT,AT,3270-PC	05Y
6205-277	micro-PROLOG		395									.GB30-2037	PC,XT,AT	05Y
+6205-279	Golden Common LISP (R)		495									.GB30-2037	PC,XT,AT	05Y
6205-281	R:BASE SERIES tm 5000		700									.GB30-2037	PC,XT,AT,3270-PC	05Y
+6205-283	Magic Menu tm		99									GB30-2037	PC,XT,AT,3270-PC,jr	05Y
+6205-284	GEM tm Collection		199									GB30-2037	PC,XT,AT,KB/mouse	05Y
+6205-285	GEM tm Desktop		50									GB30-2037	PC,XT,AT,KB/mouse	05Y
6205-286	VS CDBOL Workbench		4000									.GB30-2037	PC,XT,AT,3270-PC	05Y
6217-355	3270-PC Control Program Ver 2.1		329									GA23-0232	DOS 2.0, 2.1 or 3.0	05H
6217-355/01	3270-PC Upgrade Kit - from 1.2		60										3015	05H
+6243-245	Graphics Control Program 3.2		550										3270-PC	05M
6265-471	Videotex/PC Ext Sup Updt B1.0 to B1.1	Videotex	30									6520-3917	PC,XT,AT+ACA+modem	05H
6265-472	Videotex/PC Updt B1.0 to B1.1	Videotex	55									6520-3917	Non-subscriber	05H
+6265-484	ISPF/PC II Development Subscriber Update	EZ-VU II	30									6520-6006	6317026	05G
+6265-485	ISPF/PC II Devt Nonsubscriber Updates	EZ-VU II	55									6520-6006	6317026	05G
+6265-486	ISPF/PC II Runtime Subscriber Updates	EZ-VU II	30									6520-6006	6317025	05G
+6265-487	ISPF/PC II Runtime Nonsubscrbr Updates	EZ-VU II	55									6520-6006	6317025	05G
6276-500	Project Planning and Scheduling		150										PC,XT,jr,AT,3270-PC	05R
6276-501	STATLIB 1		150										PC,XT,jr,AT+APL	05R
6276-502	Backgammon		20										PC,XT,PPC,jr,3270-PC	05R
6276-503	Blackjack		20										PC,XT,PPC,PCjr	05R
6276-508	PC Picture Graphics		30										PC,XT,jr,AT,3270-PC	05R
6276-509	These United States		20										PC,XT,jr,AT,3270-PC	05R
6276-511	Freddy's Rescue Roundup		20										PC,XT,PCjr,PPC	05R
6276-512	Matrix Madness		20										PC,XT,jr,AT,3270-PC	05R
6276-513	Personal Scientific Calculator		25										PC,XT,jr,AT,3270-PC	05R
6276-514	Select-A-Font		20										PC,XT,jr,AT,3270-PC	05R
6276-515	Zuran		20										PC,XT,jr,PPC	05R
6276-516	3-K Trivia		20										PC,XT,jr,AT	05R
6276-517	Utilities I		20										PC,XT,jr,AT,3270-PC	05R
6276-518	DOS File Tracker		20										PC,XT,jr,AT,PPC	05R
6276-519	Kaleidoscope		15										PC,XT,jr,PPC,3270-P	05R
6276-520	Utilities II		20										PC,XT,jr,AT,3270-PC	05R
6276-521	Print Buffer On-Line		20										PC,XT,jr,AT,3270-PC	05R

Number	Program Title	Short Name	OTC	ILC	MLC	DSO	DSI	DSM	MLP	MML	Mo	MoreInfo	Environment	TPLS
6276-522	Phone Directory On-Line		25										PC,XT,Jr,AT,PPC	05R
6276-523	Phone Directory and Print Buffer On-Line		35										PC,XT,Jr,AT,PPC	05R
6276-524	Executive Phone Directory Build Your Own		150										PC,XT,Jr,AT,3270-PC	05R
6276-525	Morse Code Drills		15										PC,XT,Jr,AT,PPC	05R
6276-528	Executive Phone Directory		35										PC,XT,Jr,AT,3270-PC	05R
6276-529	Algebra Tutor		30										PrivTutor or 6276602	05R
6276-530	File Facility		20										PC,XT,Jr,AT,3270-PC	05R
6276-532	Beyond basic BASIC		20										PrivTutor or 6276602	05R
6276-533	Executive Phone Directory + Message Feat		40										PC,XT,Jr,AT,3270-PC	05R
6276-534	Word Seeking		20										PC,XT,Jr,AT	05R
6276-535	Crypto-Mania		20										PC,XT,PCjr,AT	05R
6276-536	StarProof Bridge		15										PC,XT,Jr,AT,3270-PC	05R
6276-537	PC Palette		40										PC,XT,Jr,AT,3270-PC	05R
6276-538	Portfolio Management System		100										PC,XT,Jr,AT,3270-PC	05R
6276-539	STATLIB 2		150										PC,XT,Jr,AT+APL	05R
6276-543	Object Library Maintenance		20										PC,XT,Jr,AT,3270-PC	05R
6276-550	Structured Assembler Translator		35										PC,XT,Jr,AT,3270-PC	05R
+6276-551	Memory House		20										PC,XT,AT,PCjr	05R
+6276-552	Electronic Grammer (Parts of Speech)		25										PC,XT,AT,PCjr	05R
6276-553	Scattergrams		20										PC,XT,Jr,AT,PPC	05R
6276-554	DB/Editor/Writer		50										PC,XT,Jr,AT,3270-PC	05R
6276-556	INFOPC		40										PC,XT,Jr,AT,PPC	05R
+6276-557	Daily Organizer		20										PC,XT,AT,PCjr,3270PC	05R
6276-558	FileCommand II		20										PC,XT,Jr,AT	05R
+6276-559	Countries, Capitols and More!		25										PC,XT,AT,PCjr,3270PC	05R
6276-560	Personal Editor II		50										PC,XT,Jr,AT,PPC	05R
+6276-561	1985 Tex Template		20										PC,XT,AT	05R
+6276-562	PC Network Remote Control (Six-pack)		99										NETBIOS+PC,XT,AT	05R
+6276-563	Side-Swipe		15										PC,XT,AT,PCjr,3270PC	05R
6276-564	Word Proof II		40										PC,XT,Jr,AT,PPC	05R
+6276-565	SOLITAIRE		15										PC,XT,AT,3270AT	05R
6276-566	Member Services		30										PC,XT,Jr,AT,3270-PC	05R
6276-567	FORTTRAN Tutor		20										PrivTutor or 6276602	05R
+6276-568	Source Maintenance System		25										PC,XT,AT,PCjr	05R
6276-569	Liptocoe		20										PC,XT,Jr,PPC,3270-PC	05R
6276-572	Short Hand		15										PC,XT,Jr,AT,3270-PC	05R
6276-573	Personal Print Control		30										PC,XT,Jr,AT,3270-PC	05R
6276-574	Utilities III		20										PC,XT,Jr,AT,3270-PC	05R
6276-575	SuperC		20										PC,XT,Jr,AT,3270-PC	05R
6276-577	Crypto-Mania Puzzle Pac		15										Crypto-Mania	05R
+6276-582	Aeromathics		20										PC,XT,AT,PCjr,3270PC	05R
6276-584	Language Extension System-Assembler		25										PC,XT,Jr,AT,PPC	05R
+6276-585	Multipurpose Authoring Language	MPAL	100										PC,XT,AT,PCjr,3270PC	05R
+6276-586	PC Network Remote Control (single copy)		25										PC LAN or NETBIOS	05R
+6276-588	Plan-A-Year		20										PC,XT,AT,PCjr	05R
+6276-589	Introductory Editor		20										PC,XT,AT,PCjr,3270PC	05R
+6276-590	JustEdit		20										PC,XT,AT,PCjr	05R
6276-593	DOS File View		20										PC,XT,Jr,AT,3270-PC	05R
6276-594	DOS Enhanced Debug		25										PC,XT,Jr,AT,PPC	05R
6276-597	RealEstate Investment Package		20										PC,XT,Jr,AT,PPC	05R



Number	Program Title	Short Name	OTC	ILC	MLC	DSO	DSI	DSM	MLP	MML	Mo	KoreInfo	Environment	TPLS
+6276-598	Algebra Drills		20										PC,XT,PCjr,AT,3270PC	OSR
6276-599	Trivia 102		20										PC,XT,jr,AT,3270-PC	OSR
6276-600	Music 101		20										PC,XT,jr,AT,3270-PC	OSR
6276-601	Multiplication Tables		25										PrivTutor or 6276602	OSR
6276-602	Private Tutor Presenter 1.1		20										PC,XT,jr,AT,3270-PC	OSR
6276-603	PCWATCH		50										PC,XT,jr,AT,PPC	OSR
6276-604	PrintDM		20										PC,XT,jr,AT,PPC	OSR
6276-605	Bridge Break 200		25										PC,XT,jr,AT,PPC	OSR
6276-606	JoyMouse		15										PC,XT,jr,AT+Joystick	OSR
6276-607	DOS Memories		35										PC,XT,jr,AT	OSR
6276-608	Sports Trivia from Billiards to Baseball		20										PC,XT,jr,AT,3270-PC	OSR
6276-609	The Combined Adventures with Numbers		40										PC,XT,jr,PPC,AT	OSR
6276-610	Trivia 103 (Challenges for Young People)		20										PC,XT,jr,AT,3270-PC	OSR
6276-611	Multimedia Presentation Aid		25										PC,XT,jr,AT,3270-PC	OSR
6276-612	PC Morse Code		20										PC,XT,jr,AT	OSR
6276-613	PC Print		25										PC,XT,jr,AT,PPC	OSR
6276-614	Programmed Eval of Contract Option Strat		250										PC,XT,jr,AT,3270-PC	OSR
6276-615	Personal Correspondence Manager		40										PC,XT,jr,AT,3270-PC	OSR
6276-616	Checkbook I/O		30										PC,XT,jr,AT,PPC	OSR
6276-617	PC CheckBook		20										PC,XT,jr,AT,3270-PC	OSR
6276-618	Structured BASIC Facility		55										PC,XT,jr,AT,PPC	OSR
6276-619	M.U.L.E. tm		30										PC,XT,jr,PPC	OSR
6276-620	The World's Greatest Baseball Game tm		25										PC,XT,jr,PPC	OSR
6276-621	Alley Cat tm		25										PC,XT,jr,PPC	OSR
+6276-625	Extended BASIC Programming		35										IBM BASICcompiler1.0	OSR
+6276-627	Private Tutor Series - Spell Facts		20										6024113 or 6276602	OSR
+6276-628	Picture Draw		25										PC,XT,jr,AT+color	OSR
+6276-629	File Conversion Utility		30										PC,XT,PCjr,AT,3270PC	OSR
+6276-631	Special Effects with Slides		25										PC,XT,PCjr,AT+color	OSR
+6276-633	Hopping Down the Math Trail		20										PC,XT,PCjr,AT+color	OSR
+6276-635	Picture Draw		25										PC,XT,PCjr,AT+color	OSR
+6276-636	Lines Plus		20										PC,XT,PCjr,AT,3270PC	OSR
+6276-637	Lite Editor		25										PC,XT,PCjr,AT,3270PC	OSR
+6276-640	PC Palette Utility		20										PC Palette 6276537	OSR
6279-935	DOS Tech Ref (Book) Upgr from 2.1 or 3.0		65								6520-1107		DOS 3.1	OTZ
+6280-057	Disk Operating System 3.2 5.25"	DOS 3.2	95										PC,XT,PPC,AT,PCjr	OSZ
+6280-058	Disk Operating System 3.2 3.5"	DOS 3.2	95										PC,XT,PPC,AT,PCjr	OSZ
6280-072	C Compiler		495										PC,XT,AT	OSZ
+6280-075	BASIC 3.2		45										PC,XT,AT,PPC,PCjr	OSZ
+6280-076	Graphics Development ToolKit 1.1		495										PC,XT,AT,PPC,PCjr	OSZ
+6280-076/01	Graphics Development Toolkit 1.1		800										Redistribution Licen	OSZ
+6280-077	Macro Assembler		189										3.5" drive	OSG
+6280-078	BASIC Compiler Version 2		539										3.5" drive	OSG
+6280-081	C Compiler		495										3.5" drive	OSG
-6280-082	Graphics Devt ToolKit 1.1 Upg from 1.0		250										6024196	OSZ
+6280-083	PC Local Area Network Program 1.1	LAN	125									G227-6002	PC,XT,AT	OSZ
-6280-084	PC LAN Upgrade from PC Network 6024195	LAN	65									G227-6002	PC Network	OSZ
+6280-708	Voice Communication Operating Subsystem		65										PC,XT,AT	OSZ
6280-740	Augmented Phone Services		149										PC,XT,AT+VoiceComOpt	OSZ
6280-741	Voice/Phone Assistant		149										PC,XT,AT+VoiceComOpt	OSZ

Number	Program Title	Short Name	OTC	ILC	MLC	DSO	DSI	DSM	MLP	HML	Mo	MoreInfo	Environment	TPLS
6280-742	Voice-Activated Keyboard Utility		99										PC,XT,AT+VoiceComOpt	05Z
6280-743	Voice Communications API Reference		149										PC,XT,AT+VoiceComOpt	05Z
6280-845	DisplayWrite 3 Version 1.1		450										PC,XT,AT,3270-PC	05Z
6293-576	5218 Printer Driver		175									G570-2063	PC,XT,3270-PC,PPC	05Z
6294-109	SmarTerm tm 100 on 8" diskette		165									GC22-9269	C505	05H
6294-110	SmarTerm tm 100 VT-52,VT-100,VT101,VT102		165									GC22-9269	C505+5.25" diskette	05H
6294-120	RM/COBOL tm (on eight-inch diskette)	XENIX tm	1250									GC22-9267	System 9000+XENIX	05E
6294-121	RM/COBOL tm (on 5.25-inch diskette)	XENIX tm	1250									GC22-9267	System 9000+XENIX	05E
6294-122	Pascal (on eight-inch diskette)	XENIX tm	595									GC22-9190	System 9000+XENIX	05E
6294-123	Pascal (on 5.25-inch diskette)	XENIX tm	595									GC22-9190	System 9000+XENIX	05E
6294-124	FORTRAN (on eight-inch diskette)	XENIX tm	595									GC22-9194	System 9000+XENIX	05E
6294-125	FORTRAN (on 5.25-inch diskette)	XENIX tm	595									GC22-9194	System 9000+XENIX	05E
6299-922	Personal Editor on 8" Diskette		125									GC22-9268	C505+9001+Printer	05W
6299-923	Personal Editor on 5.25" Diskette		125									GC22-9268	C505+9001+Printer	05W
6299-930	Personal Editor on 8" Diskette		125									GC22-9268	C505+9001	05H
6299-931	Personal Editor on 5.25" Diskette		125									GC22-9268	C505+9001	05W
6314-143	VM/PC Bond Technical Coordinator SuptPkg		275									GH24-5089	PC Bond+PC,XT,XT/370	05H
6316-967	Vidiotex/PC (Feature 9230)		239									.G520-3917	PCjr	05H
6316-968	Response Time Estimator (Feature 9231)		275									.G520-0334	PC,PCjr,XT,3270-PC	05H
6316-969	ISPF/PC Runtime Facility	EZ-VU	55									.GC34-4001	PC,PCjr,3270-PC,AT	05X
6316-970	IX INword		475									.G520-0347	PC/IX	05H
6316-971	Personal Decision Series - Attachmt/370		219									.GH30-0760	Upgrade to 6467046	05G
6316-971/01	Pers DS Extended Support Annual Subscrip		125								12.		See Program Descriptn.	05G
6316-972	Personal Decision Series - Attachment/36		165									.GH30-0757	PC,PPC,XT+Data Editn.	05G
6316-972/01	Pers DS Extended Support Annual Subscrip		125								12.		See Program Descriptn.	05G
6316-973	Programmed Inquiry Learning or Teaching	PILOT	219									.G520-1107	PC,XT,AT,PPC,PCjr	05H
6316-974	Information Systems Mgt Analysis		549									.3209-208	PC,XT	05H
6316-989	IX Integrated WORD/MATH		659									.3209-223	PC/IX	05H
6316-996	IX RM/COBOL tm Compiler & Runtime Interp		825									.3209-234	PC/IX	05H
6316-997	IX RM/COBOL tm Run Time Interpreter		249									.3209-234	PC/IX	05H
6316-998	Storyboard		275									.G580-2001	PC,PCjr,PPC,AT,XT370	05G
6317-001	File Transfer Express		79									.3209-242	3270-PC CP+DD5 2.0	05H
6317-002	Cable Data Management System		450									G570-2040	PC+IBM Cabling System	05X
6317-003	RS/1 tm		2159									.3209-240	PC+10MB,3270-PC,AT	05G
6317-004	Personal Decision Series, Upg to Plans+		170										Plans	05Z
6317-007	VM Bond Release 1		125									GH24-5089	PC, XT,XT/370+PCBond	05H
6317-009	PC Interactive Executive Upgrade to 1.1	PC/IX	40									GH20-6247	PC/IX 1.0 6428163	05E
6317-010	Cross System Product / Application Exec.	EZ-Run	135									.G520-6004	PC,XT,AT,XT/370,3270	05G
6317-011	Cross System Product/Application Generat	EZ-Prep	1319									.G520-6004	EZ-VU Runtime	05G
6317-012	Vidiotex-Graphic Artist facility	VIXGRAF	2500									G320-9394	Vidiotex (on PC)	05H
6317-025	ISPF/PC II Runtime Facility	EZ-VU II	59									.G520-6006	All except PCjr	05G
6317-026	ISPF/PC II Development Facility	EZ-VU II	495									.G520-6006	Runtime (6317025)	05G
6317-027	Personal Computer Organizer		165									.G320-0650	All ex jr+EZ-VU Runt	05G
6317-031	Engineering Simulation Program		439									.G320-0821	PC,XT,AT+8087+FORTRA	05H
6317-034	SlideWrite		225									G520-1107	All except PCjr	05Z
6317-038	IX WORD/MATH		800									.G320-9223	XENIX tm	05H
6317-039	IX UltraCalc (R)		350									.G320-0975	PC/IX	05H
6317-040	IX UltraCalc (R)		395									.G320-0975	XENIX tm	05H
6317-042	Local Area Network PrintManager		800									G520-5102	PC Network, OMNINET	05H
6317-043	IX CONNEXION Compiler (DIBOL tm)		850									.G320-0912	PC/IX	05H

Number	Program Title	Short Name	OTC	ILC	MLC	DSO	DSI	DSM	HLP	MML	Mo	MoreInfo	Environment	TPLS
6317-044	IX CONNEXION Runtime (DIBOL tm)		425									.G320-0912	6317043	05H
+6317-047	Attachment/370+		300									.GH30-0760	PC,XT,AT,3270-PC/AT	05G
+6317-049	Acctg Assistant Series - General Acctg		595									.	PC,XT,AT	05Z
+6317-050	Acctg Assistant Series - Accounts Payabl		595									.	PC,XT,AT	05Z
+6317-051	Acctg Assistant Series - A/R and Billing		595									.	PC,XT,AT	05Z
+6317-052	Acctg Assistant Series - Inventory Contr		595									.	PC,XT,AT	05Z
+6317-053	Acctg Assistant Series - Inv Ctl & Purch		595									.	PC,XT,ATK	05Z
+6317-054	Acctg Assistant Series - Job Costing		595									.	PC,XT,AT	05Z
+6317-060	Interactive Executive 3270-PLUS	IX/370	995									.G320-0837	AT+Xenix+SDLC adaptpr	05H
6317-062	IX CONNEXION Compiler (DIBOL tm)		975									.G320-0912	XENIX tm	05H
6317-063	IX CONNEXION Runtime (DIBOL tm)		500									.G320-0912	6317062	05H
6331-443	XENIX tm (Preinstalled on l-side hardisk		995									GC22-9248	System 9000	05E
6331-444	XENIX tm (on ten eight-inch diskettes)		995									GC22-9248	System 9000	05E
6331-471	Scientific Subroutine Lib on 5.25" Disk		325									GC22-9262	CS05 Ext+FORTRAN	05W
6331-472	3101 Emulation on 5.25" Diskette		160									GC22-9263	CS05 Extentions	05W
6331-473	Scientific Subroutine Library on 8" Disk		325									GC22-9262	CS05 Ext+FORTRAN	05W
6331-474	3101 Emulation on 8" Diskette		160									GC22-9263	CS05 Extensions	05W
6360-486	Doctor's Office Demo & Tutorial		nc									G520-3917	IBM Internal	N05Z
6360-700	Writing to Read		725									G520-1107	PCjr+Speech attachmt	05Z
-6386-352	5250 Enhanced Emulation Upgrade to 2.1		50									G570-2221	PC,XT,AT,PPC	05Z
+6386-354	5250 Enhanced Emulation Program 2.1		160									G570-2221	PC,XT,AT,PPC	05Z
6403-685	5250 Remote Emulation Program		195									G520-1107	PC,XT,PPC,AT+S/36,38	05Z
6403-724	5520 Attach Kit V3 (Feat 2896) Incl 289		875									G520-3917	All except PCjr	05C
6403-725	5520 Attach Version 3 (Feature 2895)		384									G520-3917	All except PCjr	05C
6403-728	Displaywriter/PC Attach Convenience Kit		495									G544-2280	Textpack4+6024107	05E
+6403-821	Personal Decision Series - Graphs Editn		225									.GH30-9012	3.5" drive	05G
+6403-826	Personal Services/PC 1.04		275										Upgrade to 6476053	05Z
+6403-827	Personal Servs/PC 1.04, Upg from 6317013		35										PC,XT,AT,3270PC,PPC	05Z
+6403-831	Token-Ring Network Bridge Program		1495									GA27-3677	2 TR Nets+AT,AT-Ind	05M
6404-005	Typing INSTRUCTOR		50									.GB30-2037	PC,XT,PCjr	05Y
+6404-006	GEM tm Wordchart		149									GB30-2037	PC,XT,AT,KB/mouse	05Y
6404-009	Advanced Ntware tm / PCN		1595									GB30-2037	PC,XT,AT	05Y
6404-010	Advanced Ntware tm / C		1595									GB30-2037	PC,XT,AT	05Y
6404-011	Ntware tm Bridge		395									GB30-2037	PCNetwork+PCcluster	05Y
+6404-012	GEM tm Graph		249									GB30-2037	PC,XT,AT,KB/mouse	05Y
+6404-013	GEM tm Draw		249									GB30-2037	PC,XT,AT,KB/mouse	05Y
+6404-014	Electric Desk tm Academic Edition		13									GB30-2037	User's Guidege	05Y
6410-936	Personal Decision Series - Data Edition		275									.GH30-9012	All ex PCjr+D052 up	05G
6410-936/01	Pers DS Extended Support Annual Subscrip		125								12.	.	See Program Descriptn	05G
6410-937	Personal Decision Series - Reports+ Edtn		165									.	Data Edition	05G
6410-938	Personal Decision Series - Graphs Editn		225									.	Data Edition+color	05G
6410-939	Personal Decision Series - Plans Edition		165									.	Data Edition	05G
6410-939/01	Pers DS Plans+ Upgrade Kit (from Plans)		150									.	Plans	05G
6410-940	Personal Decision Series - Words Edition		165									.	Data Edition	05G
6410-941	Personal Decision Series - Adviser		65									.	Data Edition	05G
6410-942	Personal Decision Series - Mailing Label		75									.	Data Edition	05X
6410-943	Personal Decision Series - Asset Catalog		75									.	Data Edition	05X
6410-944	Personal Decision Series - Prospect Trac		75									.	Data Edition	05X
6410-945	Personal Decision Series - Client Time		75									.	Data Edition	05X
6410-946	Personal Decision Series - Appoint Clndr		75									.	Data Edition	05X

Number	Program Title	Short Name	OTC	ILC	MLC	DSO	DSI	DSM	MLP	MML	Mo	MoreInfo	Environment	TPLS
6410-947	Personal Decision Series - Data Training		79										Data Edition	.05G
+6410-948	Personal Decision Series - Reports+ Trng		95										Reports+	.05G
6410-950	Business Management Series General Ledgr		775									.GH30-9013	PC+10MB	.05G
6410-950/01	Bus Mgt Extended Support Annual Subscript		225									12.GH30-9017	See Program Descriptn.	.05G
6410-951	Business Management Series Accts Payable		775									.GH30-9013	Data Edition	.05G
6410-952	Business Management Series Accts Receive		775									.GH30-9013	PC+10MB	.05G
6410-953	Business Management Series Payroll		775									.GH30-9013	PC+10MB	.05G
6410-954	Business Management Series Ord Entry/Inv		775									.GH30-9013	PC+10MB	.05G
6410-955	Business Management Series Inventory		775									.GH30-9013	PC+10MB	.05G
6410-957	Business Management Series Finance Exten		275										PC+10MB	.05G
6410-958	Business Management Series Acctg Extend		275										PC+10MB	.05G
6410-959	Business Management Series Gen Ledg Trng		95									.GH30-9016	General Ledger	.05G
6410-960	Business Management Series AP Training		95									.GH30-9016	General Ledger	.05G
6410-961	Business Management Series AR Training		95										Accounts Receivable	.05G
6410-962	Business Management Series Payroll Trng		95										Payroll	.05G
6410-963	Business Management Series OE Training		95										Order Entry	.05G
6410-964	Business Management Series Inv Training		95										Inventory Accounting	.05G
+6410-965	Bus Mgt Series Local Area Network Access	LANAE	245									.G580-2002	PC Network	.05G
6410-971	FORTRAN 77 Interactive Compiler	Infort	275									.G320-0345	PC/IX	.05H
6410-972	Personal Decision Series - Plans+ Editn		335										Data Edition	.05G
6410-974	Automated Information Management		429									.G320-9214	PC,XT,PPC+color-DOS2+	.05H
6410-976	Interactive Network and Message System	INnet	329									.G320-0346	PC/IX	.05H
6410-978	APL Data Interface	APLDI/PC	355									.G520-3917	PC,XT+8087+6024-077	.05H
-6410-980	ISPF/PC Development Facility	EZ-VU	130									.G520-3917	EZ-VU Runtime	.05X
6410-982	Colorview		115									.G320-0387	All	.05H
6410-984	PROFS Personal Computer Connection to VM	PROFS/PC2	219									.G320-0652	PROFS+ISPF/PC+DOS2+	.05H
6410-985	Videotex/PC Version Bl.1 (Feature 9229)	Videotex	275									.G520-3917	PC,XT,AT+ACA+modem	.05H
6419-369	Scientific Subroutine Library on 8" disk	XENIX tm	325									GC22-9262	S/9000+FORTRAN, Pasca	.05W
6419-472	Scientific Subroutine Library 5.25" disk	XENIX tm	325									GC22-9262	S/9000+FORTRAN, Pasca	.05W
6419-506	BASIC on 8" Diskette	XENIX tm	195									GC22-9184	XENIX+System 9000	.05H
6419-507	C Compiler on 8" Diskette		595										CS05	.05W
6419-508	C Compiler on 5.25" Diskette		595										CS05	.05W
6419-529	BASIC on 5.25" Diskette	XENIX tm	195									GC22-9184	XENIX+System 9000	.05W
6419-590	Personal Editor on 8" Diskette		125									GC22-9268	CS05+9002	.05W
6419-591	Personal Editor on 5.25" Diskette		125									GC22-9268	CS05+9002	.05H
6419-595	XENIX tm (Preinstalled on 2-side hardisk)		995									GC22-9248	System 9000	.05E
6423-236	3270-PC Control Program Version 2		329									GA23-0232	DOS 2.1 or 3.0	.05M
6428-071	Instructional System - Presentation	PC/IS	89									.G320-0441	PC	.05X
6428-072	Instructional System - Authoring	PC/IS	575									.G320-0441	PC	.05X
6428-087	Instructional System - Administration	PC/IS	439									.G320-0441	PC	.05X
6428-092	A Departmental Reporting System	ADRS/PC	355									.GH20-0023	PC	.05X
6428-147	Batch SNA Communications		385									.G320-9186	PC	.05H
6428-162	WESTLAN (R) Communications Session Mar		350									.G520-3917	PC	.05X
6429-190	Personal Telephone Manager		70									G320-9445	PC,XT,AT,3270-PC/AT	.05G
6430-783	BRANCHBANKER tm 4700		500									GB20-2037	PC AS (6934406)	.05E
+6430-784	BANCStar tm 4700 Account Opening		750										PC,XT,AT+4700	.05E
+6430-785	BANCStar tm 4700 Mortgage Loan		1995										PC,XT,AT+4700	.05E
+6430-786	BANCStar tm 4700 Consumer/Consumer Loan		1995										PC,XT,AT+4700	.05E
+6430-787	BANCStar 4700 Mtg.Consumer/Consumer Loan		2995										PC,XT,AT+4700	.05E
+6430-788	BANCStar 4700 Generator		4500										PC,XT,AT+4700	.05E

Number	Program Title	Short Name	OTC	ILC	MLC	DSO	DSI	DSH	MLP	MML	Mo	MoreInfo	Environment	TPLS
6466-974	ISPF/PDF PC Editor	EZ-VU	150										EZ-VU Runtime	OSG
6466-981	3812 Pageprinter Driver		49									.G320-0819	PC,XT,AT+256k	OSE
6466-982	3812 Pageprinter Font Management System		375									.G320-0817	XT,AT+10MB	OSH
+6466-983	Personal Decision Series - Data Edition		275									.GH30-9012	3.5" drive	OSG
+6466-984	Personal Decision Series - Reports+ Edit		165									.GH30-9012	3.5" drive	OSG
+6466-985	Personal Decision Series - Words Edition		165									.GH30-9012	3.5" drive	OSG
+6466-986	Personal Decision Series - Plans Edition		165									.GH30-9012	3.5" drive	OSG
+6466-987	Personal Decision Series - Plans+ Editn		335									.GH30-9012	3.5" drive	OSG
+6466-988	Business Adviser - General Accounting		995									.	XT,AT,LAN,TokenRing	10SG
+6466-989	Business Adviser - Accounts Payable		995									.	6466988	10SG
+6466-990	Business Adviser - Accounts Receivable		995									.	6466988	10SG
+6466-991	Business Adviser - Payroll		995									.	6466988	10SG
+6466-992	Business Adviser - Network Extension		245									.	LAN or TokenRing	10SG
+6466-993	Business Adviser - Inventory Control Edi		995									.	LAN or TokenRing	10SG
+6466-994	Business Adviser - Order Entry Edition		995									.	LAN or TokenRing	10SG
+6466-995	Business Adviser - Information Mgt Editi		525									.	LAN or TokenRing	10SG
6466-996	Image Processing System	PCIPS	310									.G320-0823	All ex PCjr+color	OSH
6466-998	Host Data Base View	HDBV	395									.G520-1107	MVS/VM+PC,XT,AT	OSZ
+6467-003	Acctg Assistant Series - General Acctg		595										3.5" disk	OSZ
+6467-004	Acctg Assistant Series - Accounts Payabl		595										3.5" disk	OSZ
+6467-006	Acctg Assistant Series - A/R and Billing		595										3.5" disk	OSZ
+6467-007	Acctg Assistant Series - Inv Ctl & Purch		595										3.5" disk	OSZ
+6467-008	Acctg Assistant Series - Job Costing		595										3.5" disk	OSZ
+6467-022	VM Bond Release 2		250									.GH24-5089	PC,XT,AT,XT/370,AT/3	OSM
+6467-035	Doctors Office Manager II		2749										PC,XT,AT+10MB	OSZ
+6467-036	Token-Ring Network/PC Interconnect		495										Token-Ring NETBIOS	OSH
+6467-037	Token-Ring Network NETBIOS		35										PC,PPC,XT,AT+adapter	OSH
+6467-038	Advanced Program-to-Program Communicatn	APPC	150										PC,PPC,XT,AT+adapter	OSH
6467-039	Telephone Access to Office Systems		250									.G320-9154	PROFS,PS/36,PS/38	OSE
+6467-040	Virtual Machine / Personal Computer 1.2	VM/PC	1150									.SC24-5254	5664-319+AT/370	OSM
+6467-042	VM/PC Upgrade from 1.1 to 2		150									.SC24-5254	Release 1.1	OSM
+6467-043	VM Bond Tech Coor Support Release 2		400									.GH24-5089	VM Bond Release 2	OSM
+6467-044	VM Bond Upgrade Release 1 to 2		175									.GH24-5089	VM Bond Release 1	OSM
+6467-045	Personal Computer Monitor	PECOMON	325									.G320-0838	PC+3278,9 Emul adapt	OSH
+6467-046	Attachment/370+ Upgrade from 6316971		101									.GH30-0760	Attach 370 Edition	OSG
+6476-036	Token-Ring/PC Network Interconnect Progr		495									.GA27-3677	PC,XT,AT+Net adaptrs	OSM
+6476-041	Token-Ring Network Bridge Install Kit		3285									.GA27-3677	2 TR Nets+AT,AT-Ind	OSM
+6476-046	Token-Ring Network Manager		1495									.GA27-3677	PC,XT,AT+TR Net adpt	OSM
+6476-047	3270-PC AT/GX 3277GA Emulator		1000									.	3270-PC AT/GX	OSH
+6476-052	PC/HOST File Transfer and 3270 Emulation		200									.G520-6037	MVS,VM,CICS	OSZ
+6476-053	Personal Services/PC Upgrade to 1.2		35										6403826	OSM
+6476-054	Personal Services/PC 1.2		275										PC,XT,AT,3270-PC+10M	OSM
+6476-222	PC Picturepak tm - TypeStyles		195									.GB30-2037	Storyboard	OSY
+6476-223	Electric Desk tm Academic Edition		86									.GB30-2037	PCjr cartridge	OSY
+6476-229	NetWare tm Bridge 2.0a		395									.GB30-2037	PC,XT,AT,3270-PC	OSY
+6476-230	Advanced NetWare tm/86 2.0a		1595									.GB30-2037	PC,XT,AT,3270-PC,3r	OSY
+6489-762	PC Network Analysis Program		1295										PCNetwork+EZ-VU Runt	OSZ
+6489-766	DisplayWrite 3 1.1		450										PCC+384k	OSG
6871-210	BPI (R) Accounts Payable	Demo	50										PC	OSY
6871-278	States 'n Caps (R)		39									.GB30-2037	PC,XT,PCjr	OSY

Number	Program Title	Short Name	OTC	ILC	MLC	DSO	DSI	DSM	MLP	MHL	Mo	MoreInfo	Environment	TPLS
6871-279	WordWhiz (R)		39									.GB30-2037	PC,XT,PCjr	05Y
6871-287	PC Tutor tm		59									.GB30-2037	PC	05Y
6871-288	The Instructor tm		44									.GB30-2037	PC	05Y
6871-290	Flight Simulator tm		49									.GB30-2037	PC,PCjr	05Y
6871-319	VisiSpell tm (Feature 9077)	Demo	50									.	PC	05Y
6871-321	BPS Graphics tm (Feature 9079)	Demo	100									.	PC	05Y
6871-323	VisiSchedule tm		300									.GC30-2037	PC,XT,3270-PC	05Y
6871-325	1-2-3 tm	Lotus tm	495									.GB20-2037	PC,XT,AT,RT	05Y
6871-326	WordStar (R) Version 3		495									.GB30-2037	PC,XT,3270-PC,AT	05Y
6871-330	Tutorial Set		94									.GB30-2037	PC	05Y
6871-331	Data Base Manager II-The Integrator tm		295									.GB30-2037	PC,3270-PC,XT,AT	05Y
6871-333	Type Faces tm		95									.GB30-2037	PC,3270-PC	05Y
6871-337	Timberline Estimating		690									.GB20-2037	PC,XT,AT	05Y
+6871-340	PC Picturepak tm - Eye Openers		195									.GB30-2037	Storyboard	05Y
6871-343	CBASIC Compiler tm		600									.GB30-2037	PC,XT,3270-PC	05Y
6871-347	Microsoft (R) MOUSE (BUS)		175									.GB30-2037	PC,XT,3270-PCuse	05Y
6871-348	Microsoft (R) WORD		395									.GB30-2037	PC,XT,PCjr	05Y
6871-350	PL/I		750									.GB30-2037	PC,XT,3270-PC	05Y
6871-352	Pascal/MT+ tm		400									.GB30-2037	PC,XT,3270-PC	05Y
6871-360	SID-86 tm		150									.GB30-2037	CP/M-86 orConcurrent	05Y
6871-361	FriendlyWare (R) PC Arcade		49									.GB30-2037	PC	05Y
6871-362	FAST GRAPHS tm		140									.GB30-2037	PC	05Y
6871-366	Crosstalk tm		195									.GB30-2037	PC	05Y
6871-375	SuperCalc3 (R)		395									.GB30-2037	PC,XT,3270-PC,AT	05Y
6871-383	Telemath Disk 8		40									.GB30-2037	PC	05Y
6871-394	Context MBA tm (Feature 9147)	Demo	174									.	PC	05Y
6871-401	MicroLink II tm (Feature 9154)	Demo	30									.	CP/M-86	05Y
6871-402	Milestone tm (Feature 9155)	Demo	30									.	PC	05Y
6871-407	WordStar Professional tm		695									.GB30-2037	PC,XT,3270-PC,AT	05Y
6871-408	MultiMate tm		495									.GB30-2037	PC,XT,AT,3270-PC	05Y
6871-423	Professor DOS tm		59									.GB30-2037	PC	05Y
6871-432	Chart-Master		375									.GB30-2037	PC,XT,3270-PC	05Y
6871-437	Digital Research FORTRAN 77 tm		350									.GB20-2037	PC,ST,3270-PC	05Y
6871-439	SuperProject Plus tm		495									.GB20-2037	PC,XT,AT	05Y
6871-441	SPEED READER II tm		69									.GB30-2037	PC,XT,3270-PC,PCjr	05Y
6871-442	WORD ATTACK! tm		49									.GB30-2037	PC,XT,PCjr	15Y
6871-443	Math Blaster! tm		49									.GB30-2037	PC,XT,PCjr	05Y
6871-444	Tax Decisions tm	Demo	25									.	PC	05Y
6871-456	WordPerfect tm		495									.GB30-2037	PC,3270-PC,XT,AT	05Y
6871-466	C (programming language compiler)		350									.GB30-2037	PC,XT,3270-PC	05Y
6871-470	BPS Business Graphics tm		350									.GB30-2037	PC,XT	05Y
6871-476	Graphwriter tm Basic Set		395									.GB30-2037	PC,XT,3270-PC	05Y
6871-477	Graphwriter tm Combination Set		595									.GB30-2037	PC,XT,3270-PC	05Y
6871-478	Graphwriter tm Extension Set		395									.GB30-2037	PC,XT,3270-PC	05Y
6871-479	R-BASE (R) SERIES 4000		495									.GB30-2037	PC,XT,3270-PC,AT	05Y
6871-480	PCCrayon tm (Feature 9290)		60									.GB30-2037	PC,XT,PCjr	05Y
6871-481	Harvard tm Total Project Manager		495									.GB30-2037	PC,XT,AT	05Y
6871-482	Dollars and Pense tm		180									.GB30-2037	PC,PCjr	05Y
6871-484	MasterType tm (Feature 9294)		39									.GB30-2037	PC,XT,PCjr	05Y
6871-485	Project Scheduler 5000		285									.GB30-2037	PC,XT	05Y

Number	Program Title	Short Name	OTC	ILC	MLC	DSO	DSI	DSH	HLP	MHL	Mo	MoreInfo	Environment	TPLS
6871-487	Metric I - Fundamentals of Decimals		49									.GB30-2037	PC,XT,PCjr	05Y
6871-489	SmarTerm tm 100 (DEC.VT52,VT100,1,2,EDT)		149									.GB30-2037	PC,XT,3270-PC	05Y
6871-490	Timberline Accounts Payable		990									.GB30-2037	PC,XT,AT	05Y
6871-491	VTERM (DEC.VT100 tm, DEC.VT52 tm)		125									.GB30-2037	PC,XT	05Y
6871-493	TK!Solver (R) DEMO	Demo	50										PC	05Y
6871-505	1-2-3 tm	Demo	100										3270-PC	05Y
6871-508	Timberline Payroll		990									.GB20-2037	PC,XT,AT	05Y
6871-511	Timberline Starter Set		100									.GB20-2037	PC,XT,AT	05Y
6871-514	Timberline General Ledger		990									.GB20-2037	PC,XT,AT	05Y
6871-516	Timberline Architect/Engineer		2800									.GB20-2037	PC,XT,AT	05Y
6871-518	Metric III - Units of Measurement		49									.GB30-2037	PC,XT,PCjr	05Y
6871-519	Metric IV - Linear Units (Feature 9329)		49									.GB30-2037	PC,XT,PCjr	05Y
6871-520	Metric V - Area Density Measurements		49									.GB30-2037	PC,XT,PCjr	05Y
6871-524	Timberline Job Cost		2390									.GB20-2037	PC,XT,AT	05Y
6871-526	ProKey tm		125									.GB30-2037	PC,XT,PCjr	05Y
6871-527	Assessing Personal Management Skills	Demo	88										PC	05Y
6871-528	Leading Effectively	Demo	113										PC	05Y
6871-529	Defining Goals and Objectives	Demo	113										PC	05Y
6934-406	4700 PC Application Services		300									G221-2493	PC,XT	05H
6936-809	Hardware Maintenance and Service for XT		155									G520-3917	PC	05Z
6936-810	Guide to Operations Version 2.02												XT	05Z
7033-703	5520 Personal Computer Attachment Ver 1		164									G570-2026	PC	05Z
7033-703/01	5520 PC Attach Installation Kit		893									G570-2026	2890	05Z
7732-281	DisplayWrite 2 Computer-Based Training		250									G320-1244	PC,AT+DisplayWrite 2	05C
*7732-284	DisplayWrite 3 Computer-Based Training		300											05C
*7732-907	Using EDX and EDL (Computer Based Trng)		varies									SR20-8720	Series/1	V05C
7798-COP	TRY-COPICS	COPICS	nc										Information Network	A05C
7798-ICS	Insurance Communication Service	ICS	nc										Information Network	A05C
7798-MDD	AHA Medical Device Database		nc										Information Network	N05C
7798-MVS	MVS Productivity System	MVSPS	nc										Information Network	N05C
7798-NET	Network Services		nc										Information Network	N05C
7798-OPT	Interactive Financial Planning System	OPTIMUM(R)	varies										IBM Information Net	V05E
7798-PAN	PANVALET tm (SPF)		varies										IBM information Net	V05E
7798-PAN/01	PANVALET tm (ISPF)		varies										IBM information Net	V05E
+7798-PHM	PhoneMail 1.3		varies									G620-6193	CBX-II,PBX,Centrex	V05M
*7798-RSQ	Research Queueing Package	RESQ	7800										VM, MVS	05E
7798-VMP	Virtual Machine Productivity System	VMPs	nc										Information Network	N05C
*7798-XAO	MVS/Extended Architecture Offering 1985	MVS/XA	nc										non-MVS	N25K
7799-DAA	SLSSID for 5798-CFP CICS/V5 PA II 2.1.4		nc											N
7799-DAC	SLSSID for 5746-CB1 COBOL 8 Lib 1.2.5		nc											N
7799-DAD	SLSSID for 5746-UT3 DITTO 1.2.0		nc											N
7799-DAE	SLSSID for 5746-XXV ELIAS-I 1.2.1		nc											N
7799-DAF	SLSSID for 5746-AM4 VSE Fast Copy 1.1.0		nc											N
7799-DAL	SLSSID for 5746-XE7 Access Control 1.1.0		nc											N
7799-DAM	SLSSID for 5668-944,5 DMS/CSP D/EX 1.1.0		nc											N
7799-DAN	SLSSID for 5735-XX1 ACF/NCP 1.2.1		nc											N
7799-DAP	SLSSID for 5736-PL3 PL/I OPCOM Lib 1.5.1		nc											N
7799-DAQ	SLSSID for 5736-PL3 PL/I OpCom Lib 1.6.0		nc											N
7799-DAS	SLSSID for 5746-SM2 Sort/Merge-II 2.3.0		nc											N
7799-DAT	SLSSID for 5796-PLQ VSE Perf Tool 1.1.1		nc											N

Number	Program Title	Short Name	OTC	ILC	MLC	DSO	DSI	DSM	MLP	MML	Mo	MoreInfo	Environment	TPLS
7799-DAW	SLSSID for 5746-RC9 VSE/RJE Wkstn 1.1.0		nc											N
7799-DAZ	SLSSID for 5735-0Z5 INFO/SYS 1.1.2		nc											N
7799-DA1	SLSSID for 5747-AG1 3704/5 EP/VS 1.3.0		nc											N
7799-DA2	SLSSID for 5668-983 NPDA 2.1.0		nc											N
7799-DA4	SLSSID for 5747-BQ1 3790/70 DPCX 1.2.0		nc											N
7799-DA5	SLSSID for 5747-CC6 SSS 1.4.0		nc											N
7799-DBA	SLSSID for 5746-XE8 VSE A/F 1.2.0		nc											N
7799-DBB	SLSSID for 5746-RC5 VSE BTAM-ES 1.1.0		nc											N
7799-DBC	SLSSID for 5746-XX3 CICS/DOS/VS 1.4.1		nc											N
7799-DBD	SLSSID for 5746-XX1 DL/I DOS/VS 1.5.0		nc											N
7799-DBE	SLSSID for 5746-RC7 ACF/VTAME 1.1.0		nc											N
7799-DBF	SLSSID for 5746-TS1 ICCF 1.2.0		nc											N
7799-DBG	SLSSID for 5746-XX3 CICS/DOS/VS 1.5.0		nc											N
7799-DBK	SLSSID for 5746-XX1 DL/I DOS/VS 1.6.0		nc											N
7799-DBL	SLSSID for 5746-XX1 DL/I DOS ICR2 1.5.0		nc											N
7799-DBM	SLSSID for 5746-AM2 VSE/VSAM 1.2.0		nc											N
7799-DBN	SLSSID for 5746-AM2 VSE/VSAM 1.3.0		nc											N
7799-DBP	SLSSID for 5746-XE3 POWER/RJE 1.2.0		nc											N
7799-DBR	SLSSID for 5748-MS1 Intv Prod Fac 1.4.1		nc											N
7799-DBS	SLSSID for 5748-MS1 Intv Prod Fac 1.4.0		nc											N
7799-DBT	SLSSID for 5746-TS1 VSE/ICCF 1.3.0		nc											N
7799-DBV	SLSSID for 5746-RC3 VSE ACF/VTAM 1.2.0		nc											N
7799-DBW	SLSSID for 5746-RC3 VSE ACF/VTAM 1.3.0		nc											N
7799-DBX	SLSSID for 5746-SA1 IPCS 1.2.0		nc											N
7799-DBY	SLSSID for 5746-SA1 IPCS 1.3.0		nc											N
7799-DBZ	SLSSID for VSE/System Package 1.1.0		nc											N
7799-DB1	SLSSID for 5745-030 DOS/VSE 1.2.0		nc											N
7799-DB2	SLSSID for 5745-030 DOS/VSE 1.3.0		nc											N
7799-DB3	SLSSID for 5745-030 DOS/VSE 1.3.0		nc											N
7799-DB5	SLSSID for 5748-MS1 Intv Prod Fac 1.2.0		nc											N
7799-DB6	SLSSID for 5748-MS1 Intd Prod Fac 1.2.1		nc											N
7799-DB9	SLSSID for 5746-XE8 VSE A/F 1.3.0		nc											N
7799-DCC	SLSSID for 5746-CB1 COBOL Compiler 1.3.0		nc											N
7799-DCD	SLSSID for 5746-XX4 DMS+AG 1.2.0		nc											N
7799-DCF	SLSSID for 5746-XXV ELIAS-1 1.2.0		nc											N
7799-DCF	SLSSID for 5746-XX5 OCCF 1.1.0		nc											N
7799-DCN	SLSSID for 5735-XX3 ACF/NCP/SSP 1.2.1		nc											N
7799-DCP	SLSSID for 5736-PL1 PL/I Opt Comp 1.5.1		nc											N
7799-DCQ	SLSSID for 5736-PL1 PL/I Opt Comp 1.6.0		nc											N
7799-DCS	SLSSID for 5746-SM2 Sort/Merge-II 2.4.0		nc											N
7799-DDA	SLSSID for 5746-XXC Data Dict 1.4.0		nc											N
7799-DDD	SLSSID for 5746-UT3 DITTO 1.1.0		nc											N
7799-DDN	SLSSID for 5735-XX1 ACF/NCP 1.2.1		nc											N
7799-DDP	SLSSID for 5736-LM4 PL/I Res Lib 1.5.1		nc											N
7799-DDQ	SLSSID for 5736-LM4 PL/I Res Lib 1.6.0		nc											N
7799-DDT	SLSSID for 5746-UT3 DITTO 1.3.0		nc											N
7799-DED	SLSSID for 5746-XXC Data Dict 1.3.0		nc											N
7799-DEN	SLSSID for 5735-XX3 ACF/NCP/SSP 1.2.1		nc											N
7799-DEP	SLSSID for 5736-LM5 PL/I Trans Lib 1.5.1		nc											N
7799-DEQ	SLSSID for 5736-LM5 PL/I Trans Lib 1.6.0		nc											N



Number	Program Title	Short Name	OTC	ILC	MLC	DSO	DSI	DSM	HLP	MML	Mo	MoreInfo	Environment	TPLS
7799-DEV	SLSSID for 5747-DS2 Devt Sup Facil 1.5.0		nc											N
7799-DFD	SLSSID for 5746-XC4 DMS/CICS+AG 1.3.0		nc											N
7799-DFE	SLSSID for 5746-XC4 DMS/CICS+AG 1.4.0		nc											N
7799-DFH	SLSSID for 5666-281/5668-960 ISPF 1.1.0		nc											N
7799-DFN	SLSSID for 5735-XX6 NCCF 1.2.0		nc											N
7799-DFP	SLSSID for 5735-XX8 NPDA 1.2.1		nc											N
7799-DFQ	SLSSID for 5748-XXJ SQL/DS 1.1.1		nc											N
7799-DFS	SLSSID for 5747-DS2 Devt Supt Facil 1.4.0		nc											N
7799-DGQ	SLSSID for 5748-XXJ SQL/DS 1.2.0		nc											N
7799-DTS	SLSSID for 5746-SM2 Sort/Merge-II 2.5.0		nc											N
7799-TAA	SLSSID for 5748-API VSAPL 1.3.0		nc											N
7799-TAB	SLSSID for 5748-XX1 VS/BASIC 1.3.0		nc											N
7799-TAC	SLSSID for 5740-CB1 COBOL Comp 1.2.3		nc											N
7799-TAD	SLSSID for 5748-XXB DMS/CMS 1.1.0		nc											N
7799-TAE	SLSSID for 5744-AN1 3704/5 EP/V5 1.3.0		nc											N
7799-TAF	SLSSID for 5734-F02 OS FORT IV,G 1.2.0		nc											N
7799-TAG	SLSSID for 5748-XXH GDDM+PGF 1.1.0		nc											N
7799-TAH	SLSSID for 5799-BEX PROFS 1.1.0		nc											N
7799-TAK	SLSSID for 5664-172 ISPF/PDF1.1.0		nc											N
7799-TAM	SLSSID for 5748-F03 FORTRAN Comp 1.2.0		nc											N
7799-TAN	SLSSID for 5734-F05 FORT Intr Deb 1.2.2		nc											N
7799-TAP	SLSSID for 5734-PL3 PL/I Opt Comp 1.3.1		nc											N
7799-TAQ	SLSSID for 5734-PL3 PL/I Opt Comp 1.4.0		nc											N
7799-TAR	SLSSID for 5746-R01 RPG-II Comp 1.3.0		nc											N
7799-TAV	SLSSID for 5746-AM2 VSE/VSAM 1.1.0		nc											N
7799-TAZ	SLSSID for 5735-OZ5 INFO/SYS 1.1.0		nc											N
7799-TA1	SLSSID for 5748-XX6 IIS 1.6.0		nc											N
7799-TA2	SLSSID for 5668-012 IIPS 1.1.0		nc											N
7799-TA3	SLSSID for 5668-012 IIPS 1.1.1		nc											N
7799-TA7	SLSSID for 5796-PLN ADRS II 2.1.7		nc											N
7799-TA8	SLSSID for 5796-PNG APL/DI II 2.1.5		nc											N
7799-TA9	SLSSID for 5798-DCN FPS II 2.1.3		nc											N
7799-TBA	SLSSID for 5749-010 VM/370 1.6.0		nc											N
7799-TBB	SLSSID for 5748-XX8 VM/BSE 1.2.0		nc											N
7799-TBC	SLSSID for 5748-SA1 VM IPCS 1.2.0		nc											N
7799-TBD	SLSSID for 5748-SA1 VM IPCS 1.1.0		nc											N
7799-TBE	SLSSID for 5796-PJP EDGAR Dis Ed 1.1.1		nc											N
7799-TBF	SLSSID for 5748-MS1 Intv Prod Fac 1.3.0		nc											N
7799-TBG	SLSSID for 5748-MS1 Intv Prod Fac 1.4.0		nc											N
7799-TBK	SLSSID for 5668-960 ISPF 1.1.0		nc											N
7799-TBS	SLSSID for 5664-167 VM/SP 1.1.1		nc											N
7799-TBT	SLSSID for 5664-167 VM/SP 1.2.1		nc											N
7799-TCA	SLSSID for 5748-API VS APL 1.4.0		nc											N
7799-TCC	SLSSID for 5734-CB4 COBOL Int Deb 1.1.4		nc											N
7799-TCD	SLSSID for 5748-XX9 Doc Comp Facil 1.1.0		nc											N
7799-TCF	SLSSID for 5734-LM3 FORTRAN-II,IV 1.2.3		nc											N
7799-TCG	SLSSID for 5748-XXH GDDM/PGF 1.2.0		nc											N
7799-TCP	SLSSID for 5734-PL1 PL/I Opt Comp 1.3.1		nc											N
7799-TCQ	SLSSID for 5734-PL1 PL/I Opt Comp 1.4.0		nc											N
7799-TCR	SLSSID for 5748-XP1 RSCS NETHKG 1.1.0		nc											N

<u>Number</u>	<u>Program Title</u>	<u>Short Name</u>	<u>OTC</u>	<u>ILC</u>	<u>MLC</u>	<u>DSO</u>	<u>DSI</u>	<u>DSM</u>	<u>MLP</u>	<u>MML</u>	<u>Mo</u>	<u>MoreInfo</u>	<u>Environment</u>	<u>TPLS</u>
7799-TC1	SLSSID for 5748-XXC VM/IFS 1.1.0		nc											N
7799-TDC	SLSSID for 5748-XX9 Doc Comp Facil 1.2.0		nc											N
7799-TDD	SLSSID for 5748-XE4 VM DIRMAINT 1.1.0		nc											N
7799-TDF	SLSSID for 5734-F05 FORTRAN Int Db 1.2.1		nc											N
7799-TDM	SLSSID for 5748-XE4 VM DIRMAINT 1.2.0		nc											N
7799-TDP	SLSSID for 5734-LM4 PL/I Res Lib 1.3.1		nc											N
7799-TDQ	SLSSID for 5734-LM4 PL/I Res Lib 1.4.0		nc											N
7799-TDR	SLSSID for 5748-XP1 RSCS Netwkg 1.2.0		nc											N
7799-TDS	SLSSID for 5748-XP1 RSCS Netwkg 1.3.0		nc											N
7799-TED	SLSSID for 5748-XXB DMS/CMS 1.2.0		nc											N
7799-TEP	SLSSID for 5734-LM5 PL/I Trans Lib 1.3.1		nc											N
7799-TEQ	SLSSID for 5734-LM5 PL/I Trans Lib 1.4.0		nc											N
7799-TFP	SLSSID for 5740-XX8 PLANCODE/I 1.2.2		nc											N
7799-TGP	SLSSID for 5798-CPX VMAP Perf Mon 1.3.4		nc											N
7799-TGQ	SLSSID for 5796-PKT QBE 1.1.9		nc											N
7799-THP	SLSSID for 5748-RC1 VM/Passthru 1.1.0		nc											N
7799-THQ	SLSSID for 5748-RC1 VM/Passthru 1.2.0		nc											N

# Appendix A.

We acknowledge the following...

## **TRADEMARKS**

Accounts Payable by Peachtree  
Accounts Receivable by BPI  
Accounts Receivable by Peachtree  
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Advanced Interactive Executive  
Advanced NetWare  
ACS On-Line System  
AIX  
ANIMATOR  
Answer/DB  
  
ANSYS  
  
Applix  
AT&T  
  
ATI  
BANCStar  
  
IBARSOFT  
BPI  
BRANCHBANKER  
Bottom Line Strategist  
BPS  
  
BPS Business Graphics  
Bumble Games  
Bumble Plot  
Burroughs  
Business Forecasting Model  
Business Graphics  
  
The Business Library  
Cdex  
Chart-Master  
CompuServ

## **and their OWNERS**

Peachtree Software, Inc.  
BPI Systems Incorporated  
Peachtree Software, Inc.  
ACROSYSTEMS  
IBM  
Novell, Inc.  
Apparel Computer Systems, Inc.  
IBM  
Micro Focus, Ltd.  
INFORMATICS GENERAL  
CORPORATION  
Swanson Analysis Systems  
Incorporated  
Applix Incorporated  
American Telephone & Telegraph  
Co.  
American Training International  
National Financial Computer  
Systems, Inc.  
ASAP Systems, Inc.  
BPI Systems, Inc.  
Ampersand Corporation  
Ashton-Tate  
Business and Professional  
Software, Inc.  
Business and Professional  
Learning Company  
Learning Company  
Burroughs Corporation  
VisiCorp  
Business and Professional  
Software, Inc. Software, Inc.  
Software Libraries, Inc.  
Cdex Corp.  
Decisions Resources  
CompuServe Incorporated

Computer Discovery  
Computer Stocks and Bonds  
Concurrent CP/M-86  
Consolidation Module  
Consolidation/Link Module  
Context MBA  
CRIBWARE  
Cross Clues  
Crosstalk  
Curse of RA  
CADAM  
CAEDS  
  
CALCOMP  
CATIA  
CBASIC  
CHART-MASTER  
CLOUT  
COLORPLUS  
COLORPLUS  
  
COMPACTII  
  
Concurrent  
CP/M-86  
CRIBWARE  
  
Data Base Manager II-The  
Integrator  
Data Highway  
Data Interchange Facility  
DataKits  
Deadline  
DIAGRAM-MASTER  
DIBOL  
Discovering BASIC  
Discovering Computers  
Dollars and \$ense  
Dow Jones  
DEC.EDT  
DEC.VT100  
DEC.VT101  
DEC.VT102  
DEC.VT52  
DEC

Science Research Associates  
Softsel (Avalon Hill)  
Digital Research  
Chang Labs, Inc.  
Chang Labs, Inc.  
Context Management Systems  
Applied Control Technologies, Inc.  
Science Research Associates  
Microstuf  
Alpha Software  
CADAM, INC.  
Structural Dynamics Research  
Corporation (SDRC)  
Sanders Associates, Inc.  
Dassault Systems, S.A.R.L.  
Digital Research  
Decision Resources, Inc.  
Microrim Inc.  
Plantronics Corporation  
Plantronics/Frederick Electronics  
Corp.  
Manufacturing Data Systems, Inc.  
(MDSI)  
Digital Research, Incorporated  
Digital Research, Incorporated  
Applied Data Control Technologies,  
Inc.  
Alpha Software Corporation  
  
Allen-Bradley Company  
Software Arts, Inc.  
McGraw-Hill, Inc.  
Softsel (Infocom)  
Decision Resources, Inc.  
Digital Equipment Corporation  
Science Research Associates  
Science Research Associates  
Monogram  
Dow Jones, Incorporated  
Digital Equipment Corp.  
Digital Equipment Corp.  
Digital Equipment Corp.  
Digital Equipment Corp.  
Digital Equipment Corp.  
Digital Equipment Corp.  
Digital Equipment Corp.

dBase II  
dBASE III  
DIF  
Dollars & \$ense  
DOW JONES  
DR Assembler Plus Tools  
DR Draw  
DR Graph  
EASYLABEL  
Easywriter  
EasySpeller  
Electric Desk  
  
Enable  
ENERCONNECT  
ENERGRAPHICS  
Ethernet  
Excellon  
FaceMaker  
THE FIX  
FlashCalc  
Flight Simulator  
Framework  
Free Enterprise  
Friday!  
FriendlyWare  
FACT TRACK  
FAST GRAPHS  
FCM  
Fleet Maint  
FORMS-2  
Gardner Denver  
GCLISP  
GEM  
General Accounting by BPI  
General Electric Series 6  
General Ledger by Peachtree  
Graphwriter  
GE  
GEnet  
Golden Common LISp  
Hadassah  
Harvard  
Helvetica

Ashton-Tate  
Ashton-Tate  
Software Arts, Inc.  
Tronix Publishing, Inc.  
Dow Jones, Incorporated  
Digital Research, Inc.  
Digital Research, Inc.  
Digital Research, Inc.  
Tharo Systems, Inc.  
Information Unlimited Software, Inc.  
Information Unlimited Software, Inc.  
Alpha Software, Electric Software, Inc.  
Software Group  
Enertronics, Inc.  
Enertronics Research, Inc.  
Xerox Corporation  
Excellon Industries  
Softsel (Spinnaker)  
Intellution, Inc.  
Paladin Software Corporation  
Microsoft Corporation  
Ashton-Tate  
Science Research Associates  
Ashton-Tate  
FriendlySoft, Inc.  
Science Research Associates  
Innovative Software  
Continental Software  
Diagonal Data Corporation  
Micro Focus, Ltd.  
Cooper Electronics  
Gold Hill Computers, Inc.  
Digital Research Inc.  
BPI Systems Incorporated  
General Electric  
Peachtree Software, Inc.  
Graphic Communications, Inc.  
General Electric  
General Electric  
Gold Hill Computers, Inc.  
Tetterode, Amsterdam  
Software Publishing Corporation  
Allied Corporation

Helvetica Condensed and Expanded  
Helvetica - Language Extensions  
Homeword  
Honeywell  
  
IMSL  
InfoStar  
IN/ix  
INmail  
INnet  
Interleaf  
Inventory Control by BPI  
Inventory Control by Peachtree  
INTELLECT  
Interactive Executive UltraCalc  
ITC Korinna  
ITC Souvenir  
Javelin  
Job Cost System by BPI  
Juggles  
Keyworks  
LABTECH NOTEBOOK  
  
Level II COBOL  
LEXIS  
LEXPAT  
LOGO  
LOOPWORKS  
Lotus  
Magic Menu  
Magic Menu Network  
MailMerge  
MAP  
MasterType  
MathDrills  
MATH LIBRARY  
Medallion  
Micro Discovery  
MicroLink II  
MicroLink II  
Micro Maint  
MicroPlan  
Microsoft

Allied Corporation  
  
Allied Corporation  
Sierra On-Line, Incorporated  
Honeywell Information Systems, Inc.  
IMSL Incorporated  
MicroPro International  
INTERACTIVE Systems Corporation  
INTERACTIVE Systems Corporation  
INTERACTIVE Systems Corporation  
Interleaf, Inc.  
BPI Systems Incorporated  
Peachtree Software, Inc.  
Artificial Intelligence Corporation  
Olympus Software, Inc.  
International Typeface Corporation  
International Typeface Corporation  
Javelin Software Corp.  
BPI Systems Incorporated  
Butterfly Learning Company  
Alpha Software Corporation  
Laboratory Technologies Corporation  
Micro Focus, Ltd.  
Mead Data Central  
Mead Data Central  
LOGO Computer Systems, Inc.  
Equinox Data Corporation  
Lotus Development Corporation  
DeereSoft, Inc.  
DeereSoft, Inc.  
MicroPro International  
General Motors Corporation  
Scarborough Systems, Inc.  
Starware  
IMSL, Inc.  
Timberline Systems, Inc.  
Science Research Associates  
Digital Marketing  
Wordcraft  
Diagonal Data Corporation  
Chang Labs, Inc.  
Microsoft Corporation

Midway Campaign	Softsel (Avalon Hill)
MODBUS	Gould, Inc.
= MONEY = TRACK =	Pacific Data Systems, Inc.
Monotype	Allied Corporation
Monotype	Monotype Corporation, Limited
Monotype Bodoni Cyrillic	Monotype Corporation
Monotype Century	Monotype Corporation
Monotype Garamond - Language Extensions	Allied Corporation
Monotype Levenim	Allied Corporation
Monotype Old English Text and New Berolina	Monotype Corporation
Monotype Rockwell - Language Extensions	Allied Corporation
Monotype Times New Roman Cyrillic	Monotype Corporation
Multiplan	MicroSoft Corporation
Multiwire	Koll Morgen Corporation
MultiMate	Multimate International
MBASIC	Microsoft Corporation
MICRO 84	Gould Modicon
MINI-PLC-2/15	Allen-Bradley
MINI-PLC-2	Allen-Bradley
MODBUS	Gould Modicon
MSC/case	MacNeal-Schwendler Corporation
MSC/mate	MacNeal-Schwendler Corporation
MSC/NASTRAN	MacNeal-Schwendler Corporation
MSC/pal 2	MacNeal-Schwendler Corporation
NAG	Numeric Algorithm Group, Inc.
NCR	National Cash Register
NetWare	Novell, Inc.
Network RELEATION	Cosmos, Inc.
NEXIS	Mead Data Central
NumaLogic	Westinghouse
OPTOMUX	Opto 22
Oracle	Oracle Corporation
Oron	A. Oron
Overhead Express	Business and Professional Software, Inc.
OXYCALC	Occidental Petroleum Services, Inc.
p-System	University of California Board of Regents
Pascal/MT +	Digital Research
Payroll by Peachtree	Peachtree Software, Inc.
PCemas	Scholar Chips Software, Inc.

PC PicturePak	Marketing Graphics, Inc.
PeachText	Peachtree Software, Inc.
Personal BASIC	Digital Research
Personal Investor	Softsel (PBL)
Personal Pearl	Pearlsoft
Personal WordPerfect	Satellite Software International
pfs	Software Publishing Corporation
PLC-2	Allen-Bradley Company
PLC-3	Allen-Bradley Company
Printworks	Softstyle, Inc.
Professor DOS	Individual Software, Inc.
Project Scheduler 5000 Plus	SCITOR Corporation
Graphics	
ProCalc	Software Products International, Inc.
	RoseSoft, Inc.
ProKey	Softsel (Comprehensive Software)
PC Tutor	Allen-Bradley
PLC-2/20	Allen-Bradley
PLC-2/30	Allen-Bradley
PLC-3	Allen-Bradley
PLC-4 MICROTRON	Allen-Bradley
PRESTEL	British Telecom, LTD.
Professional CADAM	CADAM, INC
Question	Alpha Software
QUIETWRITER	IBM
Rags to Riches	Chang Laboratories, Inc.
R:BASE	MicroRim, Inc.
RCA	Radio Corporation of America
REALCOLOR	Micro Developed Systems, Inc.
Reflex	Borland/Analytica, Inc.
REVELATION	Cosmos, Inc.
RM/COBOL	Ryan-McFarland, Inc.
RS/1	Bolt, Beranek and Newman, Inc.
Samna	Samna Corporation
Samna Word III	Samna Corporation
Sidekick	Borland International
SIDEWAYS	Funk Software
Sign-Master	Decision Resources, Inc.
Smart-Cat	Novation, Inc.
SmarTerm 100	Persoft, Inc.
Snooper Troops #1	Softsel (Spinnaker)
Snooper Troops #2	Softsel (Spinnaker)
SOLOMON III	TLB Incorporated
Spellbinder	Digital Marketing (Lexisoft)



SpellStar	MicroPro International
Spotlight	Software Arts, Inc.
StarIndex	MicroPro International
States'n Caps	Alphanetics
Story Machine	Softsel (Spinnaker)
StretchCalc	Multisoft Corporation
STATMAP	Rand McNally Infomap, Inc.
STAT LIBRARY	IMSL, Inc
SuperCalc	Computer Associates International, Inc.
SuperCalc3	Computer Associates International, Inc.
SuperProject	Computer Associates International, Inc.
SuperProject Plus	Computer Associates International, Inc.
SuperWriter	Sorcim Corporation
Symphony	Lotus Development Corporation
Synergetix	IBM
Sideways	Funk Software, Inc.
SID-86	Digital Research
SIGN-MASTER	Decision Resources
SMARTMODEM	Hayes MicroComputer Products, Inc.
T.I.M. III	Innovative Software
T.I.M. IV	Innovative Software, Inc.
Tax Decisions	Eagle Publishing, Inc.
Tektronix	Tektronix, Inc.
Temple of Apschai	Softsel (Automated Simulations)
The Executive Package	Alpha Software
The Financial Planner	Ashton-Tate
The Home Accountant Plus	Continental Software
The Instructor	Individual Software Inc.
The Integrator	Alpha Software
The Scientific Desk	C. Abaci, Inc.
The Source	Source Telecomputing Corporation
The Tax Manager	Taso, Inc.
ThinkTank and Ready!	Living Videotext, Inc.
Thoughtware Sampler	Institute for Management Improvement
Thoughtware	Institute for Management Improvement
Timberline	Timberline Systems, Inc.
Time Manager	Image Producers, Incorporated
Times New Roman - Language Extensions	Monotype Corporation, Limited

Transporter	Microstuf
Type Faces	Alpha Software
TCS Client Ledger System	TCS Software, Inc. and Financial Microsystems, Inc.
TIWAY	Texas Instruments
TI520	Texas Instruments
TI530	Texas Instruments
Timberline	Timberline Systems, Inc.
TK!Solver	Software Arts, Inc.
TK!SolverPack	Software Arts, Inc.
TurboPascal	Borland International
TURBO PASCAL	Borland International
Turbo Toolbox	Borland International
Typing INSTRUCTOR	Individual Software, Inc.
T3	Triad Computing, Inc.
UltraFile	Continental Software
Univac	Sperry Corporation
Univers	Allied Corporation
Univers Condensed	Allied Corporation
Upper Reaches of Apshai	Softsel (Automated Simulations)
UCC TWO	University Computing Company
UCSD p-System	Regents of the University of California
UCSD FORTRAN-77	Regents of the University of California
UCSD Pascal	Regents of the University of California
UNIX	AT&T Bell Laboratories
VisiCalc	VisiCorp
VisiDex	VisiCorp
VisiFile	VisiCorp
VisiLink	VisiCorp
VisiOn Calc	VisiCorp
VisiOn Graph	VisiCorp
VisiOn Word	VisiCorp
VisiOn	VisiCorp
VisiPlot	VisiCorp
VisiSchedule	VisiCorp
VisiSpell	VisiCorp
VisiTrend/Plot	VisiCorp
VisiWord	Paladin Software Corporation
VisiWord Plus	Visicorp
Volkswriter	Lifetree Software, Inc.
Voyager	Softsel (Avalon Hill)

VAX	Digital Equipment Corporation
VCN ExecuVision	VCN, Inc.
VMS	Digital Equipment Corporation
VS COBOL Workbench	Micro Focus Limited
VERM	Coefficient Systems Corporation
Wang	Wang Laboratories
WHEELWRITER	IBM
WordMARC	MARC Software International, Inc.
WESTLAW	West Publishing Company
Word III	Samna Corporation
Wordskills for the Microcomputer	Science Research Associates
Wordstar	MicroPro International
Wordstar Professional	MicroPro International
WordPerfect	WordPerfect Corporation
WordWhiz	Alphanetics
Worksheet/38	New Generation Software, Inc.
Workstation Publishing Software	Interleaf, Inc.
The World's Greatest Baseball Game	EPYX, Inc.
XENIX	Microsoft Corporation
Zork I	Softsel (Infocom)
Zork II	Softsel (Infocom)
Zork III	Softsel (Infocom)
1-2-3	Lotus Development Corporation
5TI	Texas Instruments



## Appendix B. Glossary and Codes

- + A plus sign in the margin means that the program is new in 1986.
- A minus sign in the margin means that the program has been or will be withdrawn. A successor may be indicated in the Environment column.
- \* Asterisks in the price columns mean that the prices or terms are variable, depending usually on the mix of component programs selected.
- \* Asterisk in the margin indicates a footnote for the program below:

- 5668840** CADAM® Interactive Design Version 2 contains terms and pricing complexities not rendered here. They deal with multiple licenses, upgrades from Version 1, Usage Licensing et al. Program Announcements should be obtained from your IBM Branch Office.
- 5767001** The Application System has a variable schedule of prices, based on usage. Details are specified in section one.
- 5796PRP** Circuit Pack System has a variable schedule of prices based on usage. Obtain Programming Announcements from your IBM Branch Office.
- 7732907** A computer-based course. The last five digits are the course code. Order from your Branch Office or IBM Direct at 1-800-IBM-2468.
- 7732284** Same as above
- 7798RSQ** A Research Developed Program. Use indicates acceptance of the terms and conditions of the IBM Research Distributed Program License Agreement. Order the program from IBM Research, Box 218, Yorktown Heights, NY 10598 Attn. Edw. MacNair S03. An Availability Notice and other publications are available from the same source.

- DSO** Distributed System License Option allows you to use multiple copies of a program at a reduced rate. They do not have a testing allowance. Central Service is provided only through the location designated for the license. DSM is the monthly charge. DSO is the one-time charge.
- ILC** The Initial License Charge, which is one-time, is associated with its corresponding Monthly License Charge. The ILC printed is for the Basic license; the ILC for a DSLO license is under the column heading DSI.
- L** The License type column indicates the general type of license. Most programs are designated 'S' meaning that a separate license is required for each physical processor. 'L' indicates a Location license. 'I' indicates an Installation license. 'E' indicates a 'Courseware' license that operates with the Interactive Instructional Presentation System, and is described in The IBM/SRA Education Catalog (G320-1244). 'U' indicates a Usage license.
- MLC** The Monthly License Charge is for the Basic license; i.e., it is not for a DSLO license. It is recurring, continuing. If a charge also is indicated in the OTC column (below), the licensee may choose either payment option.
- MLPS** Monthly Licensed Program Support provides IBM Programming Service at your computer site.
- MMLPS** Monthly Multiple Licensed Program Support is the appropriate charge where multiple licenses are in effect for the same program.
- MO** After this period of consecutive months, additional license charges are waived.
- NC** There is no charge for this program.
- OTC** One-Time Charge is a lump sum in lieu of ILC or MLC charges.
- P** Test period for most programs is indicated as one or two months. 'Y' indicates a period of five days.
- S** The Service column indicates the type of service available for a program. Specifics should be obtained from your IBM representative. The abbreviated meanings of the letter codes are:
- A** Central and local Programming Services are provided.

- B** Central Programming Service and local Systems Engineering assistance is provided.
- C** Central Programming Service is not provided.
- D** Central Programming Service and local Systems Engineering Programming Service is provided.
- E** Central Service is available from the IBM Support structure or other source as designated in the Programming Announcement or Availability Notice.
- F** Central Service for one year after receipt, but not later than the expiration date stated in the Program Announcement or Availability Notice.
- G** Central Service for ninety days after receipt, but not later than the expiration date stated in the Program Announcement or Availability Notice. Licensee must return the Service Registration card to qualify.
- H** Central Service is available until the date shown in the Availability Notice or Program Announcement.
- I** Central Service is available at a fee until the expiration stated in the Availability Notice or Program Announcement. The fee is waived during a specified installation period.
- J** Class 1 System Control Programming. Central Service including the IBM Support Center. Local Program Support for an IBM processor is available under separate agreement (Z120-2829) from Field Engineering Division with monthly charges based on the model of the processor, or at the applicable hourly rate. IBMers may display the current charges from the Local Program Support section of the General Price Information section of the online (HONE) Sales Manual.
- K** Central Service including the IBM Support Center. Local Licensed Program Support is available under Agreement (Z120-2831).
- L** Central Service, including the IBM Support Center. Local Licensed Program Support on a per call basis only.
- M** Central Service, including the IBM Support Center.
- N** Class 1 or 2 System Control Programming depending on the operating system and environment utilized. Service same as J or S as appropriate.

- P** IBM Extended Support is available as a separately priced offering for a subscription term.
- R** Personally Developed Software. Service as per the license agreement included with the package. See Appendix C.
- S** Class 2 System Control Programming. Central and Local Service available while the SCP remains current.
- W** IBM Instruments. See your IBM representative for specific provisions.
- X** Central Service as provided in G, H or I above, has expired.
- Y** These Personal Computer programs are distributed by IBM but the IBM logo does not accompany the product. Description of service normally is provided by the licensor.
- Z** These Personal Computer programs are licensed and supported under individual terms and conditions included with the package.

**T** Service for the programs selected and included in this list remain as was for each program individually.

**TPLS** The rightmost four columns of the listing.

- T means Terms and conditions;
- P means test Period (in months);
- L means License type;
- S means Service class.

Each of these four one-letter columns is explained in this Glossary.

**T** Terms and Conditions:

'B' is for 'boot'. Payment of the amount indicated is in lieu of the larger amount of the base program, i.e it is an upgrade charge. A 'T' in this column indicates that an additional charge is assessed based on usage or connect time. Or it indicates that a Usage License applies. A 'T' in this column means this feature does not require the base program, because it includes it. It may be ordered as an alternate to the base; and is priced independently.

A postpaid card is provided in back so that you can address comments regarding this book to the Editor.



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