

*Domain  
Documentation  
Master  
Index*

011242-A00

apollo

# Domain Documentation Master Index

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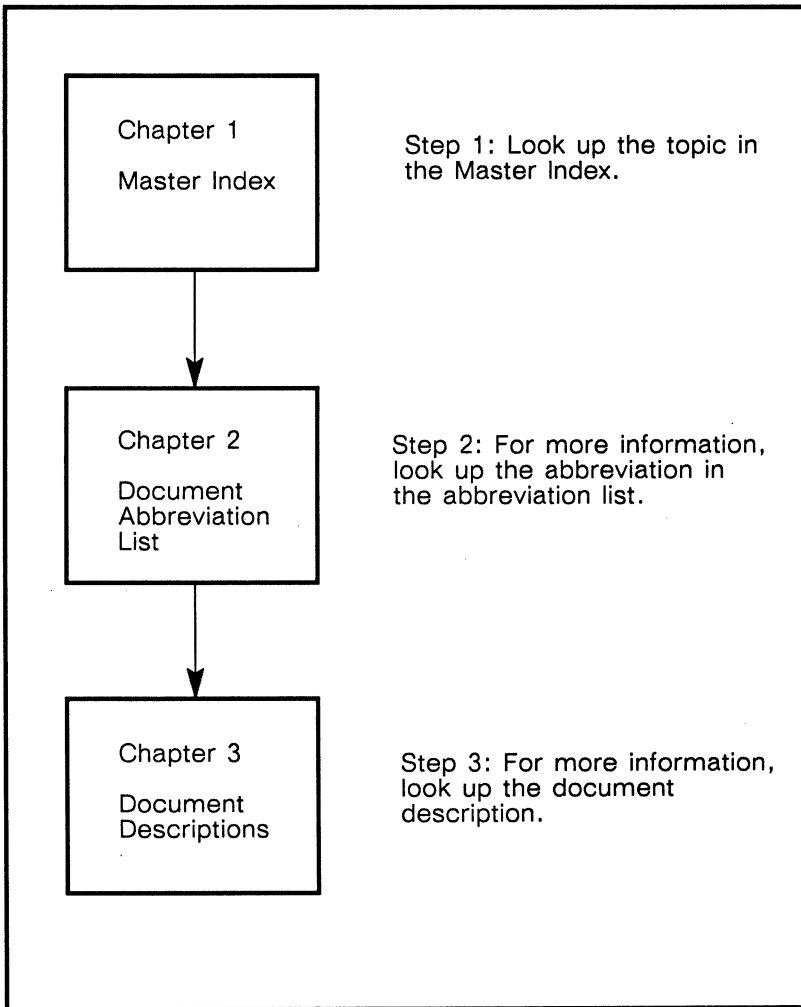
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# Using This Manual

The *Domain Documentation Master Index* provides a master index to the Domain® documentation set and it provides additional lists of, descriptions of, and information on Domain documentation.

We've organized this manual as follows:

<b>Using This Manual</b>	Describes how to use the manual and provides an overview of the documentation set.
<b>Chapter 1</b>	Presents the Master Index. This is a high-level topic index that refers the reader to individual manuals, based on an abbreviation for the title of the document.
<b>Chapter 2</b>	Supplies an abbreviation list of the documents.
<b>Chapter 3</b>	Describes the contents of each document.
<b>Chapter 4</b>	Supplies an alphabetic list of the documents.



*Steps in Using This Manual*

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## Using This Manual

- Step 1** Look up a topic in Chapter 1, the Master Index. The Master Index provides you with one or more mnemonic abbreviations for document titles. If you need the exact title for the document or the part number go to Step 2.
- Step 2** Look up the abbreviation in the list of abbreviations in Chapter 2. You can use this information to identify a document more clearly or to order the document. If you want more specific information about a document, go to Step 3.
- Step 3** Look up the document in the document description list in Chapter 3. These document descriptions provide you with information about the contents of documents and about the products the documents support.

You can also use this manual in other ways:

- Overview** If you are interested in an overview of Apollo® documents or products, you can skim through the abbreviation list in Chapter 2 or read through the document descriptions in Chapter 3.
- Document Descriptions** If you are interested in finding out more about the contents of a specific document, turn directly to Chapter 3, “Document Descriptions.”
- Product Information** If you are interested in information about specific products, look in Chapter 2 (the abbreviations list). The abbreviations are arranged alphabetically; each abbreviation begins with the product name. Thus, Chapter 2 is a guide to which documents are associated with a product.

## Part Number

If you know the title for a document and are only interested in its part number, you can also use the alphabetic listing of titles in Chapter 4 (read the notes at the front of the chapter first). You can also use the abbreviation list in Chapter 2 to locate a part number. The abbreviations are mnemonic for the titles and associated products.

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## Related Manuals and Online Information

This manual describes the Domain document set; many documents from earlier releases have changed their part numbers and/or titles. The *Domain System Software Release Notes* contains a comparison list of the older documents and the new SR10 documents.

For a quick reference guide to the Domain document set see the *Domain Documentation Quick Reference* (2685). We intend this quick reference to be a companion guide to this master index.

For a guide to using the Domain/Delphi online document system, see *Retrieving Information with Domain/Delphi* (11270).

The following file also lists current titles and revisions for all available documents:

```
/install/doc/apollo/os.v.latest software release number__manuals
```

For example, at SR10.0 refer to the following file to check that you are using the correct version of documents:

```
/install/doc/apollo/os.v.10.0__manuals
```

You may also want to use this file to check that you have ordered all of the documents that you need. (If you are using the Aegis™ environment, you can access the same information through the Help system by typing **help manuals**.)

The Domain system also provides online help for individual commands, by using either the **help** command (for the Aegis operating environment) or the **man** command (for the BSD or SysV operating environments). *Getting Started with Domain/OS* (2348) discusses using both commands. The *Aegis Command Reference* (2547) describes the **help** command. The *BSD Command Reference* (5800) and the *SysV Command Reference* (5798) describe the **man** command.

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## Terminology

You can access the Domain/OS operating system through three different user environments: **Aegis**, **BSD**, or **SysV**. **Aegis** refers to the Apollo operating environment. **BSD** refers to the operating environment for the Berkeley Standard Distribution of the UNIX® operating system. **SysV** refers to the operating environment for the System V UNIX operating system.

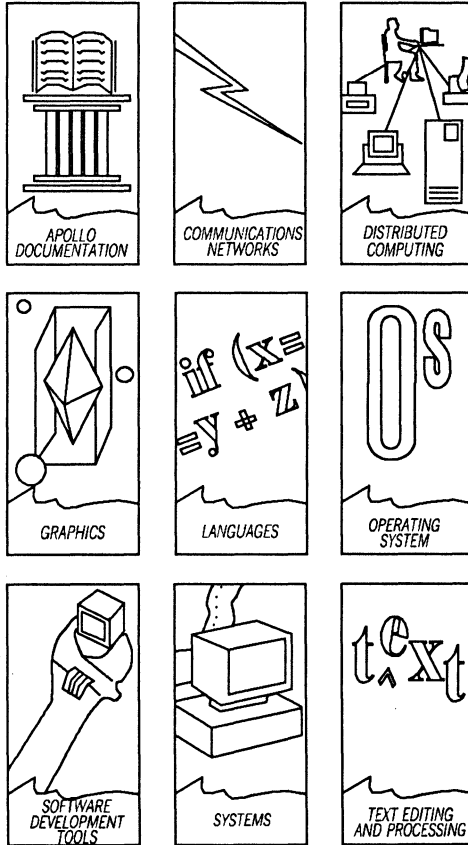
We often refer to groups of workstations by using an “xx” convention. Thus, we refer to the DN550, DN560, and DN570 workstations as DN5xx workstations. The “DN” designation indicates a Domain Node, and the “DSP” designation indicates a Domain Server Processor. “Domain Series”, “DS”, and “Series” refer to both workstations and server processors in the same model series. Personal Workstation™ and Series 3000™ refer to 3xxx products. Personal Super Workstation™ and Series 4000™ refer to 4xxx products. Personal Supercomputer™ refers to Series 10000™ products.



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## Document Set Categories and Icons

The Domain document set is structured into nine categories. Each category has a distinctive icon.



### *Document Icons*

#### **Apollo Documentation**

Includes manuals and guides that describe the Apollo document set, as well as Domain/Delphi online documentation software.

<b>Communications Networks</b>	Includes managing, installing, planning, using and reference documents. Describes network management, LANs, and related accessories (for networks such as the Apollo Token Ring and IEEE 802.3), communications software (such as SNA, LU 6.2, TCP/IP, X.25, and Domain/Access™), and communications hardware (such as the Domain/ComController™).
<b>Distributed Computing</b>	Includes managing and reference documents. Includes the Network License Server™ (NLS™) and the Network Computing System™.
<b>Graphics</b>	Includes planning, installing, programming, managing, and reference documents for graphics products. Describes CORE, GPR™, GSR™, 2D GMR™, 3D GMR™, and Domain/PHIGS software; the IBM® 5080 emulator, and the Tektronix® 4014 emulator.
<b>Languages</b>	Includes programming and reference documents for Ada, C, C++, FORTRAN, LISP, and Pascal.
<b>Operating Systems</b>	Includes getting started, using, planning, installing, managing, programming, and reference documents. Describes calls, commands, library functions, interprocess communications (IPC), general purpose input/output (GPIO), and system administration.
<b>Software Development Tools</b>	Includes getting started, using, programming, and reference documents. Describes programming tools, binding, linking, streams, and debugging; as well as performance analysis, computer-aided software engineering (CASE), and user interface and text tools.

<b>Systems</b>	Includes planning, installing, operating, servicing, and reference documents. Describes workstations, servers, peripherals, options, monitors, and diagnostics.
<b>Text Processing and Editing</b>	Includes using and reference documents. Describes BSD and SysV editing and text processing, the PostScript® page description language, and Transcript™ utilities.

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## Problems, Questions, and Suggestions

We appreciate comments from the people who use our system. To make it easy for you to communicate with us, we provide the Apollo Product Reporting (APR) system for comments related to hardware, software, and documentation. By using this formal channel, you make it easy for us to respond to your comments.

You can get more information about how to submit an APR by consulting the appropriate Command Reference manual for your environment (Aegis, BSD, or SysV). Refer to the `mkapr` (make apollo product report) shell command description. You can view the same description online by typing:

**\$ man mkapr** (in the SysV environment)

**% man mkapr** (in the BSD environment)

**\$ help mkapr** (in the Aegis environment)

Alternatively, you may use the Reader's Response Form at the back of this manual to submit comments about the manual.

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## Documentation Conventions

Unless otherwise noted in the text, this manual uses the following symbolic conventions.

**literal values and  
first level index entries**

Bold words or characters represent commands or keywords that you must use literally. Pathnames are in bold. First level index entries are also in bold.

*manual titles*

Italic words indicate manual titles.



This symbol indicates the end of a chapter.



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**Chapter 2      Document Abbreviation List**

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**Chapter 3      Document Descriptions**

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**Chapter 4      Alphabetic Document List**

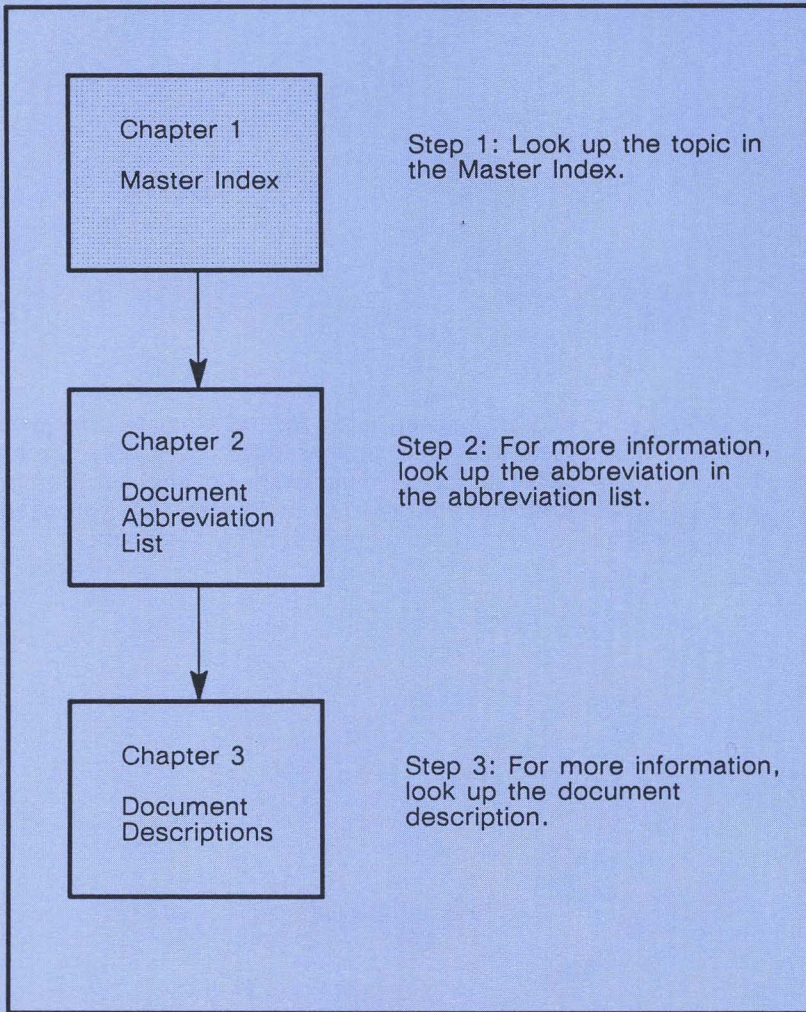


# Chapter 1

## Master Index

This chapter provides a master index for the Domain documentation set. This index is a topic and product index. One or more mnemonic abbreviations for documents appear after each entry in the index. Look up the abbreviation in Chapter 2 if you need to know the exact title and part number for the document.





*Steps in Using This Manual*

The following example illustrates how to use this manual. Assume that you are writing an applications program and want to improve the performance of the program:

1. Look up the topic in Chapter 1. Under **performance analysis**, the index in Chapter 1 lists several programs referring to a document abbreviated as *DPAK*:

**performance analysis**

procedure-level using DPAT, *DPAK*  
statement-level using HPC, *DPAK*  
system-level using DSPST, *DPAK*  
with Domain/PAK, *DPAK*

2. Look up *DPAK* in Chapter 2 to determine the part number and document title.

*DPAK*                    8906    *Analyzing Program Performance with Domain/PAK*

3. Look up the document description in Chapter 3 if you want more detailed information on this document.

8906    *Analyzing Program Performance with Domain/PAK*  
This manual discusses the Domain/PAK (Domain Performance Analysis Kit) program. The DPSPT program analyzes the relative use of CPU time by several processes at the system level. The DPAT program analyzes the performance of procedures within programs, including I/O, paging, and system call performance. The HPC program analyzes the performance of statements within a program to show which parts of the program are most compute intensive.

If you know the name of a document and just want to look up the part number, you can refer directly to Chapter 4, which lists documents alphabetically; for example,

*Analyzing Program Performance with Domain/PAK*                    8906

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# Master Index

First level entries are highlighted in color. Entries that begin with numbers are at the end of this index.

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*DomDocMI*

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*DomDocQR*

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## assembler

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(operating environment for  
the Berkeley Standard  
Distribution of the UNIX  
operating system)

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## CSMA/CD

(Carrier Sense  
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## ctm\_\$ color table manager

calls, *OSClSRefV1*

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- display coordinates
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- moving commands, *BSDUsq*, *AegisUsq*, *SysVUsq*, *DMCcmd*, *DomGetSt*

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- pbufs\_\$* paste buffer calls, *OSCIsProg*, *OSCIsRefV1*

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- (Domain Distributed Data Management system)
- applications, *D3MIntro*, *D3MDtbase*, *D3MDML*
- data dictionaries, *D3MIntro*, *D3MDML*
- databases
  - aggregate, *D3MDtbase*, *D3MDML*
  - changing, *D3MView*
  - designing, *D3MDtbase*
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- Dataview, *D3MIntro*, *D3MView*
- DDL, *D3MIntro*, *D3MDtbase*
- DML
  - (Data Manipulation Language)
  - calls, *D3MDML*
  - description of, *D3MDML*
- Formatter, *D3MIntro*, *D3MView*
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  - (High-Level Data Manipulation Language)
  - description of, *D3MView*

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- introduction, *D3MIntro*
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**d3m\_\$ database calls, *D3MDML*****data alignment at SR10, *SR10Trans*****data bases**

- see* databases

**Data Description Language (DDL)**

- see* D3M

**data dictionary**

- D3M, *D3MIntro*, *D3MDtbase*, *D3MDML*

**Data Manipulation Language (DML)**

- see* D3M

**data types**

- aclm\_\$* access control list, *OSCIsRefV1*
- cal\_\$* calendar, *OSCIsRefV1*
- CPS, *CPSRef*
- ctm\_\$* color table, *OSCIsRefV1*
- D3M, *D3MDML*

**data types (cont.)**

DML, *D3MDML*  
 Domain/Ada, *AdaLangRf*  
 Domain/Dialogue, *DialUse*  
 Domain/LU 6.2, *LU6.2TVRef*  
 Domain/OS, *OSClSRefV2*,  
     *OSClSProg*, *OSClSRefV1*  
 Domain/PHIGS, *PHIGSCalls*  
 DSEE, *DSEECalls*  
 ec2\_\$ eventcount, *OSClSRefV1*  
 error\_\$, *OSClSRefV1*  
 fpp\_\$ floating point,  
     *OSClSRefV1*  
 gmf\_\$, *OSClSRefV1*  
 graphics  
     2D GMR, *2DGMRCalls*  
     3D GMR, *3DGMRCalls*  
     Domain/CORE, *CoreProg*  
     Domain/PHIGS,  
         *PHIGSCalls*  
     GPR, *GPRQRef*, *GPRCalls*  
     GSR, *GIS*, *GSRProg*  
 ios\_\$ input/output switch,  
     *OSClSRefV1*  
 ios\_dir\_\$ ios directory,  
     *OSClSRefV1*  
 ipc\_\$ interprocess  
     communication,  
     *OSClSRefV1*  
 languages  
     Domain/Ada, *AdaDevRef*  
     Domain/C, *CLangRef*  
     Domain/C++, *CPlus*  
     Domain/CommonLISP,  
         *LISPRef*  
     Domain FORTRAN,  
         *FORTTRANRf*  
     Domain Pascal, *PascalRf*  
 lu62\_\$, *LU6.2TVRef*  
 mbx\_\$ mailbox, *OSClSRefV1*  
 ms\_\$ mapped segments,  
     *OSClSRefV1*

**data types (cont.)**

mts\_\$ streams magtape,  
     *OSClSRefV1*  
 mutex\_\$ mutual exclusion,  
     *OSClSRefV1*  
 name\_\$ naming server,  
     *OSClSRefV1*  
 NCS, *CPSRef*  
 Open Dialogue, *OpDCust*,  
     *OpDCreate*, *OpDialRef*  
 pad\_\$ display manager,  
     *OSClSRefV1*  
 pbufs\_\$ paste buffer,  
     *OSClSRefV1*  
 pfm\_\$ process fault manager,  
     *OSClSRefV2*  
 pgm\_\$ program manager,  
     *OSClSRefV2*  
 phg\_\$ Domain/PHIGS  
     graphics, *PHIGSCalls*  
 pm\_\$ process manager,  
     *OSClSRefV2*  
 PostScript, *PostRef*  
 prf\_\$ print library,  
     *OSClSRefV2*  
 proc2\_\$ level 2 process,  
     *OSClSRefV2*  
 procl\_\$ level 1 process,  
     *OSClSRefV2*  
 sio\_\$ serial input/output,  
     *OSClSRefV2*  
 smd\_\$ screen manager,  
     *OSClSRefV2*  
 sna\_\$, *SNA3770Use*,  
     *SNA3270Use*  
 snarje\_\$, *SNA3770Use*  
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     call, *OSClSRefV2*  
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 time\_\$ clock management,  
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- tpad\_ \$ touchpad and mouse, *OSClRefV2*
- Unique Identifier types listed in uid\_ \$ call, *OSClRefV2*
- vec\_ \$ vector library, *OSClRefV2*
- vfmt\_ \$ variable text format calls, *OSClRefV2*

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- D3M, *D3MIntro*, *D3MDtbase*, *D3MDML*, *D3MView*
- Domain internet distributed, *InterMan*

## Dataview, *D3MIntro*, *D3MView*

## date commands, *AegisCmd*, *SysVCmd*, *BSDCmd*

## DBMS

- (database management systems)
- D3M, *D3MIntro*, *D3MDtbase*, *D3MDML*, *D3MView*

## dbx debugging command, *OSPrEnvRf*, *SysVCmd*, *BSDCmd*

## dcalc Aegis calculator utility, *AegisCmd*

## DDF

- (Device Descriptor File)
- for Domain/ComController, *ComConIns*
- for Domain/Laser-26™, *Las26Inst*
- for Domain/PCC, *PCCInst*
- for DS3000 SPE, *SPEInst*
- with GPIO, *WrGPIO*
- for third-party options, *DN3000Opt*

## DDL

- (Data Description Language)
- see D3M

## DDS

- (Open Dialogue definition source file) see Open Dialogue

## debugging

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- blocks, *DebugRef*
- commands, *AegisCmd*, *SysVCmd*, *BSDCmd*
- with dbx command, *OSPrEnvRf*
- device drivers, *WrGPIO*
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- VAX access
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- Domain/Ada, *AdaLangRf*
- Domain/C, *CLangRef*
- Domain FORTRAN, *FORTRANRf*
- Domain Pascal, *PascalRf*

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- files commands, *AegisCmd*,  
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## Delphi

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## derived classes in Domain/C++,

- CPlus*

## description files

- Domain/Dialogue and,  
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- Domain Pascal, *PascalRf*

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## DEX

- (Diagnostic Executive),  
*DN580Serv*, *DN3000Serv*,  
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- commands, *DiagUseV1*

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- error logging and reporting,  
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- getting started with, *DiagUseV1*
- runtime environment,  
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## Diagnostic Executive

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## diagnostics

- see also* sax, sau2
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- DN580*, *DN580Serv*
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- DN5xx*, *DN5xxServ*
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- DN3040*, *DN3040Inst*,  
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- Domain/Access, *AccessMan*

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operating system)  
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*SysVCmd*  
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*OSPrgEnvRf*, *SysVCmd*  
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*DomGetSt*, *SysVCmd*  
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    functions, *SysVPgRef*  
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    using PostScript, *TransUse*  
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*SysVStrPrg*, *SysVStrGet*  
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**uucp** communications  
  program, *SysVMan*,  
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  configuring)  
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*ComConIns*

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*EthConInMB*

IEEE 802.3, *I802Inst*

SPE, *SPEInst*

X.25, *X25Inst*

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DS4000, *DN3000Mem*

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*AegisMan*, *BSDMan*

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APPLE LaserWriter, *AppleLas*

BSD, *BSDUsg*

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with DN5xx, *DN5xxOp*

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with DN3040, *DN3000-Op*

with DN4000, *DN3000-Op*

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*DN5xxTOP*

with DSP3000,

*DN3000-Op*

with DSP3040,

*DN3000-Op*

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*DN3000-Op*

with Series 10000, *S10-Op*

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*Aegis*, *AegisUsg*, *AegisCmd*

BSD, *BSDUsg*, *BSDCmd*

Display Manager,

*BSDUsg*, *AegisUsg*,

*SysVUsg*, *DMCmd*,

*DomGetSt*

*SysV*, *SysVUsg*, *SysVCmd*

D3M, *D3MIntro*, *D3MDtbase*

DM, *OSCIProg*

Domain 5080, *5080Using*

Domain/Access, *AccessUse*

Domain/Debug, *DebugRef*

Domain/Delphi, *DelphInfo*

Domain/Dialogue, *DialUse*

Domain/GKS, *GKSRef*

Domain/Laser-26 printer,

*Las26Inst*, *Las26Op*

Domain NFS, *NFSUse*

Domain/PCC, *PCCUse*

Domain/PCI, *PCIUse*

Domain/SNA-3270,

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    BSD, *UNIXTextP*  
    SysV, *UNIXTextP*  
**ftp**, *TCPUseApl*  
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    Domain 5080, *5080Using*  
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    Domain/C, *CLangRef*  
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    DSP90, *DSP80AOp*  
    DSP160, *DSP160-Op*  
    DSP500-T, *DN5xxTOP*  
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    DSP3040, *DN3000-Op*  
    DSP4000, *DN3000-Op*  
    Series 10000, *S10-Op*  
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TCP/IP, *TCPUseApl*  
Tektronix 4692, *4692Ins*  
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    translation utilities,  
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    with DSP500-T,  
        *DN5xxTOP*  
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    DN4xx, *DN416xxOp*  
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    DN5xx, *DN5xxOp*  
    DN5xx-T, *DN5xxTOP*  
    DN6xx, *DN416xxOp*  
    DN3000, *DN3000-Op*  
    DN3040, *DN3000-Op*  
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    BSD, *BSDPgRef*  
    D3M, *D3MDtbase*  
    Domain/Ada program  
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    Interactive Configuration  
        Utility  
        *see* ICU  
    SysV, *SysVPgRef*  
    TranScript, *TransUse*  
  
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        network communications  
        program)  
    command description,  
        *SysVCmd*, *BSDCmd*  
    using in  
        BSD, *BSDMan*  
        SysV, *SysVMan*

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Domain/C, *CLangRef*  
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*LISPRef*  
Domain FORTRAN,  
*FORTTRANRf*  
Domain Pascal, *PascalRf*  
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*OSClSProg*, *OSClSRefV1*  
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*DN3xxOp*

DN4xx, *DN4/6xxServ*,  
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DN580, *DN580Inst*, *DN580Op*,  
*DN580Serv*

DN590, *DN580Serv*

DN5xx, *DN5xxOp*, *DN5xxInst*,  
*DN5xxServ*

DN5xx-T, *DiagUseV2*,  
*DN5xxTServ*, *DN5xxTArch*,  
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*DN4/6xxOp*

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*DN3000In*, *DN3000-Op*,  
*DN3000Serv*, *DN3000Arc*,  
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*DN3040Serv*, *DN3000-Op*

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*DN3000In*, *DN3000-Op*,  
*DN3000Serv*, *DN3000Trf*

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*DN3040Serv*

Personal Super Workstations  
*see* DN4000, DSP4000

Personal Supercomputers  
*see* Series 10000

Personal Workstations  
*see* DN3000, DSP3000,  
DN3040, DSP3040

Series 10000, *S10Prog*,  
*S10Serv*, *S10RefV1*,  
*S10TRefV2*, *S10TRefV3*,  
*S10TRefV4*, *S10TRefV5*,  
*S10Inst*, *S10-Op*

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*SpecsHard*

## writing tapes commands,

*AegisCmd*, *SysVCmd*, *BSDCmd*

## X

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  - metafiles, *2DGMRProg*
  - output, *2DGMRProg*
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- output, *2DGMRProg*
- primitives, *2DGMRProg*,  
*2DGMRCalls*
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- data types, *3DGMRCalls*
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*3DGMRCalls*
- text, *3DGMRProg*
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*3DGMRProg*
  - with Domain/Dialogue,  
*DialUse*, *3DGMRProg*
  - with Domain/PHIGS,  
*PHIGSProg*
  - with GPR, *3DGMRProg*

## 100

- for DFL-100 *see*  
Domain/DFL
- for DQC-100 *see*  
Domain/DQC

## 300

- see* MSD-300

## 500

- see* FSD-500

## 802.3

- see* IEEE 802.3

## 1600

- see* MSD-1600

## 2780

- see* IBM 2780

## 3270

- see* IBM 3270,  
Domain/SNA-3270

## 3278, 3279, 3287

- see* Domain/SNA-3270

## 3770

- see* Domain/SNA-3770

**3780**

*see* IBM 3780

**4014**

*see* Tektronix 4014

**4692**

*see* Tektronix 4692

**5080**

*see* Domain 5080

**6250**

*see* MSD-6250

**9000**

*see* DSP9000

**10000**

*see* Series 10000

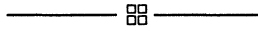
**68000**

*see* assembler

**80287**

(floating-point coprocessor)

*see* floating-point



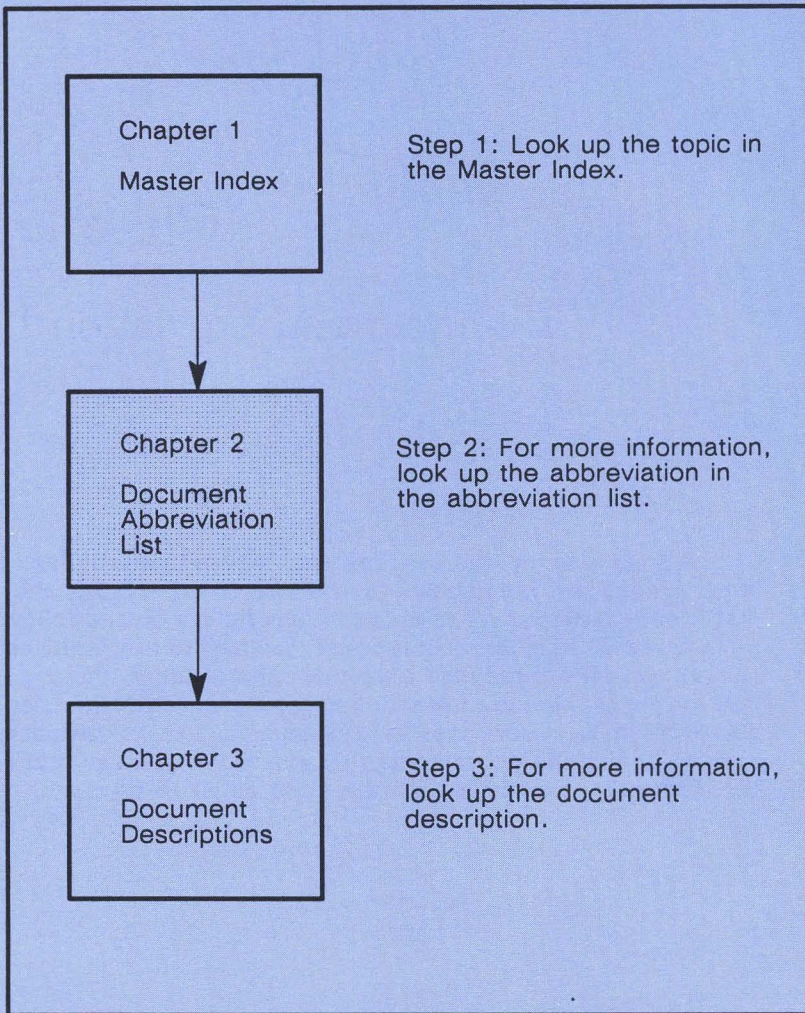


# Chapter 2

## Document Abbreviation List

This chapter lists the abbreviations used in the master index. The abbreviations are mnemonic—each abbreviation suggests the title that it is referring to. The abbreviations do not strictly follow the titles, however. The product is usually referred to first in the abbreviation, even if it is not first in the title. For instance, the abbreviation for the *Domain 2D GMR Call Reference* is *2DGMRCalls*. This abbreviation list also serves as a product index; for instance, by looking up the abbreviations starting with D3M, you can find all of the documents associated with the D3M database product.





*Steps in Using This Manual*

The following example illustrates how to use this manual. Assume that you are writing an applications program and want to improve the performance of the program:

1. Look up the topic in Chapter 1. Under **performance analysis**, the index in Chapter 1 lists several programs referring to a document abbreviated as *DKAK*:

**performance analysis**

procedure-level using *DKAT*, *DKAK*

statement-level using *HPC*, *DKAK*

system-level using *DSPST*, *DKAK*

with *Domain/PAK*, *DKAK*

2. Look up *DKAK* in Chapter 2 to determine the part number and document title.

*DKAK*                    8906    *Analyzing Program Performance with Domain/PAK*

3. Look up the document description in Chapter 3 if you want more detailed information on this document.

8906    *Analyzing Program Performance with Domain/PAK*

This manual discusses the *Domain/PAK* (*Domain Performance Analysis Kit*) program. The *DSPST* program analyzes the relative use of CPU time by several processes at the system level. The *DKAT* program analyzes the performance of procedures within programs, including I/O, paging, and system call performance. The *HPC* program analyzes the performance of statements within a program to show which parts of the program are most compute intensive.

If you know the name of a document and just want to look up the part number, you can refer directly to Chapter 4, which lists documents alphabetically; for example,

*Analyzing Program Performance with Domain/PAK*                    8906

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## Abbreviation List

Abbreviation	Part Number	Title
<i>2DGMRCalls</i>	9793	<i>Domain 2D Graphics Metafile Resource Call Reference</i>
<i>2DGMRProg</i>	5097	<i>Programming with 2D Graphics Metafile Resource</i>
<i>3DGMRCalls</i>	5812	<i>Domain 3D Graphics Metafile Resource Call Reference</i>
<i>3DGMRProg</i>	5807	<i>Programming with 3D Graphics Metafile Resource</i>
<i>4014Use</i>	5224	<i>Domain 4014 User's Guide</i>
<i>4692Ins</i>	9906	<i>Installing and Operating the Tektronix 4692 Printer Interface</i>
<i>5080Inst</i>	10045	<i>Installing the Domain 5080 Emulator</i>
<i>5080Mang</i>	10047	<i>Managing the Domain 5080 Emulator</i>
<i>5080Plan</i>	10265	<i>Planning for the Domain 5080 Emulator</i>
<i>5080Using</i>	10046	<i>Using the Domain 5080 Emulator</i>
<i>AccessMan</i>	10173	<i>Managing the Domain/Access Application</i>
<i>AccessUse</i>	8012	<i>Using the Domain/Access Application</i>
<i>AdaDevRef</i>	8917	<i>Domain/Ada Development System Reference</i>
<i>AdaLangRef</i>	8684	<i>Ada Language Reference Manual</i>
<i>AdaQkRef</i>	10978	<i>Domain/Ada Quick Reference</i>
<i>AegisCmd</i>	2547	<i>Aegis Command Reference</i>
<i>AegisMan</i>	10852	<i>Managing Aegis System Software</i>

<i>AegisPrint</i>	11774	<i>Printing in the Aegis Environemnt</i>
<i>AegisUsg</i>	11021	<i>Using Your Aegis Environment</i>
<i>AppleLas</i>	7864	<i>Installing the APPLE LaserWriter Printer in a Domain System</i>
<i>AssemRef</i>	8862	<i>Domain Assembly Language Reference</i>
<i>ATRConIns</i>	10616	<i>Installing the Apollo Token Ring Network Controller-AT</i>
<i>ATRProt</i>	10005	<i>Apollo Token Ring Media Access Control Layer and Physical Layer Protocols</i>
<i>BridgeInst</i>	5697	<i>Unpacking and Installing the Domain/BRIDGE Controllers</i>
<i>BSDCmd</i>	5800	<i>Domain BSD Command Reference</i>
<i>BSDMan</i>	10853	<i>Managing BSD System Software</i>
<i>BDSPgRef</i>	5801	<i>BSD Programmer's Reference</i>
<i>BSDUsg</i>	11020	<i>Using Your BSD Environment</i>
<i>CLangRef</i>	2093	<i>Domain/C Language Reference</i>
<i>CoaxInst</i>	9860	<i>Installing Coaxial Cable and Accessories for an Apollo Token Ring Network</i>
<i>ComConIns</i>	7761	<i>Installing the Domain/ComController Product</i>
<i>CoreProg</i>	1955	<i>Programming with Domain Core Graphics</i>
<i>CPlus</i>	12777	<i>The C++ Programming Language</i>
<i>CPSRef</i>	10233	<i>Concurrent Programming Support (CPS) Reference</i>
<i>D3MDML</i>	4304	<i>How to Write DML Programs</i>
<i>D3MDtbase</i>	4302	<i>How to Design, Define, and Operate a D3M Database</i>

<i>D3MIntro</i>	1950	<i>Introduction to D3M</i>
<i>D3MView</i>	4304	<i>How to Use D3M/Dataview and Formatter</i>
<i>DebugRef</i>	11024	<i>Domain Distributed Debugging Environment Reference</i>
<i>DelphInfo</i>	11270	<i>Retrieving Information with Domain/Delphi</i>
<i>DFLInst</i>	8626	<i>Installing and Operating the Domain/DFL-100 Fiber Interface Unit</i>
<i>DiagUseV1</i>	9329	<i>Using Domain Diagnostics, Volume 1</i>
<i>DiagUseV2</i>	11775	<i>Using Domain Diagnostics, Volume 2</i>
<i>DialGetSt</i>	10218	<i>Getting Started with Domain/Dialogue</i>
<i>DialUse</i>	4299	<i>Domain/Dialogue User's Guide</i>
<i>DMCmd</i>	11418	<i>Domain/OS Display Manager Command Reference</i>
<i>DN3xxInst</i>	5447	<i>Unpacking and Installing the DN3xx</i>
<i>DN3xxOp</i>	5448	<i>Operating the DN3xx</i>
<i>DN3xxServ</i>	3135	<i>Servicing the DN3xx</i>
<i>DN4/6xxOp</i>	5509	<i>Operating the DN4xx/DN6xx</i>
<i>DN4/6xxServ</i>	3239	<i>Trouble-Shooting Guide (DN4xx and DN6xx)</i>
<i>DN580Inst</i>	7450	<i>Unpacking and Installing the DN580</i>
<i>DN580Op</i>	7451	<i>Operating the DN580</i>
<i>DN580Serv</i>	7452	<i>Servicing the DN580/DN590</i>
<i>DN5xxInst</i>	4108	<i>Unpacking and Installing the DN550/DN560/DN570(A) Workstation</i>
<i>DN5xxOp</i>	4107	<i>Operating the DN550/DN560/DN570</i>

<i>DN5xxServ</i>	4827	<i>Servicing the DN550/DN560/DN570</i>
<i>DN5xxTArch</i>	9490	<i>DN5xx-T Workstations and DSP500-T Server Hardware Architecture Handbook</i>
<i>DN5xxTInst</i>	9493	<i>Unpacking and Installing the DN5xx-T Workstations and the DSP500-T Server</i>
<i>DN5xxTOp</i>	9494	<i>Operating the DN5xx-T Workstations and the DSP500-T Server</i>
<i>DN5xxTRef</i>	9491	<i>DN5xx-T Workstations and DSP500-T Server Technical Reference</i>
<i>DN5xxTServ</i>	9489	<i>Servicing the DN5xx-T Workstations and the DSP500-T Server</i>
<i>DN3000Arc</i>	7861	<i>Domain Personal Workstations and Servers Hardware Architecture Handbook</i>
<i>DN3000Cfg</i>	10531	<i>Domain Series 3000 Configuration Worksheet</i>
<i>DN3000Gph</i>	10409	<i>Installing Graphics Controllers in the PC AT Compatible Bus</i>
<i>DN3000In</i>	7857	<i>Unpacking and Installing Your Domain Personal Workstations and Servers</i>
<i>DN3000Mem</i>	10615	<i>Installing Memory in Your Domain Series 3000/Series 4000</i>
<i>DN3000-Op</i>	7858	<i>Operating the Domain Personal Workstations and Servers</i>
<i>DN3000-Opt</i>	10332	<i>Adding Third-Party AT Compatible Options to Domain Workstations and Writing Device Drivers</i>
<i>DN3000Serv</i>	7859	<i>Servicing the Domain Personal Workstations and Servers</i>
<i>DN3000TRf</i>	8778	<i>Domain Personal Workstations and Servers Technical Reference</i>

<i>DN3040Cfg</i>	11402	<i>Domain DN3040/DN4040 Configuration Worksheet</i>
<i>DN3040Inst</i>	11398	<i>Unpacking and Installing Your DN3040/DN4040 Workstation and the DSP3040/DSP4040 Server</i>
<i>DN3040Serv</i>	11400	<i>Servicing the DN3040/DN4040 Workstation and the DSP3040/DSP4040 Server</i>
<i>DN4000Cfg</i>	11032	<i>Domain Series 4000 Configuration Worksheet</i>
<i>DomDocMI</i>	11242	<i>Domain Documentation Master Index</i>
<i>DomDocQR</i>	2685	<i>Domain Documentation Quick Reference</i>
<i>DomGetSt</i>	2348	<i>Getting Started with Domain/OS</i>
<i>DomInSft</i>	8860	<i>Installing Software with Apollo's Release and Installation Tools</i>
<i>DPAK</i>	8906	<i>Analyzing Program Performance with Domain/PAK</i>
<i>DSEECalls</i>	10264	<i>Domain Software Engineering Environment (DSEE) Call Reference</i>
<i>DSEE-Eng</i>	8790	<i>Engineering in the DSEE Environment</i>
<i>DSEEGetSt</i>	8788	<i>Getting Started with the Domain Software Engineering Environment (DSEE)</i>
<i>DSEERef</i>	3016	<i>Domain Software Engineering Environment (DSEE) Command Reference</i>
<i>DSP80AIns</i>	4958	<i>Unpacking and Installing the DSP80A/DSP90</i>
<i>DSP80AOp</i>	4957	<i>Operating the DSP80A/DSP90</i>
<i>DSP80AServ</i>	5806	<i>Servicing the DSP80A/DSP90</i>
<i>DSP160-Op</i>	5489	<i>Operating the DSP160</i>
<i>DSP9000In</i>	8915	<i>Introducing the DSP9000</i>

<i>EthConInMB</i>	8265	<i>Unpacking and Installing the EtherController-MB</i>
<i>FORTANRf</i>	530	<i>Domain FORTRAN Language Reference</i>
<i>FSDInst</i>	8267	<i>Installing the FSD-500</i>
<i>GenInst</i>	8258	<i>Installing the Multi-Mode Printer</i>
<i>GIS</i>	9791	<i>Domain Graphics Instruction Set</i>
<i>GKSRef</i>	12077	<i>Domain/GKS User and Reference Manual</i>
<i>GPRCalls</i>	7194	<i>Domain Graphics Primitives Resource Call Reference</i>
<i>GPRProg</i>	5808	<i>Programming with Domain Graphics Primitives</i>
<i>GPRQRef</i>	10430	<i>Domain Graphics Primitives Quick Reference</i>
<i>GSRProg</i>	9797	<i>Programming with Graphics Service Routines</i>
<i>I802Inst</i>	10614	<i>Installing the 802.3 Network Controller-AT</i>
<i>ImagInst</i>	8266	<i>Installing the IMAGEN Laser Printers</i>
<i>InterMan</i>	5694	<i>Managing Domain/OS and Domain Routing in an Internet</i>
<i>IOInst</i>	8268	<i>Installing Input/Output (I/O) Devices for Domain Nodes</i>
<i>Las26Inst</i>	7851	<i>Installing the Domain/Laser-26 Printer in a Domain System</i>
<i>Las26Op</i>	7852	<i>Operating the Domain/Laser-26 Printer</i>
<i>LISPRef</i>	10849	<i>Domain/CommonLISP Reference</i>
<i>LISPUse</i>	8791	<i>Domain/CommonLISP User's Guide</i>
<i>LU6.2Man</i>	8919	<i>Managing the Domain/LU6.2 Gateway</i>

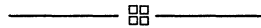


<i>LU6.2Plan</i>	8918	<i>Planning for the Domain/LU6.2 Gateway</i>
<i>LU6.2 TVRef</i>	10017	<i>Domain/LU 6.2 Transaction Verb Reference</i>
<i>MailUse</i>	3660	<i>DPSS/Mail User's Guide</i>
<i>MonServ</i>	9349	<i>Servicing Domain Monitors</i>
<i>MSD300MIns</i>	8262	<i>Installing the Disk Storage Module</i>
<i>MSD1600Ins</i>	8263	<i>Installing the MSD-1600</i>
<i>MSD6250Ins</i>	7456	<i>Installing the MSD-6250</i>
<i>NCSMang</i>	11895	<i>Managing the NCS Location Broker</i>
<i>NCSRef</i>	10200	<i>Network Computing System (NCS) Reference</i>
<i>NFSUse</i>	10414	<i>Using NFS on the Domain Network</i>
<i>NLSLic</i>	11273	<i>Licensing Application Software with NLS</i>
<i>NLSMang</i>	11272	<i>Managing Application Software with NLS</i>
<i>NetPlan</i>	9916	<i>Planning Domain Networks and Internets</i>
<i>OpDCreate</i>	11167	<i>Creating User Interfaces with Open Dialogue</i>
<i>OpDCust</i>	11166	<i>Customizing Open Dialogue</i>
<i>OpDialRef</i>	12807	<i>Open Dialogue Reference</i>
<i>OSClsProg</i>	5506	<i>Programming with Domain/OS Calls</i>
<i>OSClsRefV1</i>	7196	<i>Domain/OS Call Reference, Volume 1</i>
<i>OSClsRefV2</i>	12888	<i>Domain/OS Call Reference, Volume 2</i>
<i>OSPrEnvRf</i>	11010	<i>Domain/OS Programming Environment Reference</i>
<i>PascalRf</i>	792	<i>Domain Pascal Language Reference</i>

<i>PCabInst</i>	4678	<i>Unpacking and Installing the Domain Peripheral Cabinet</i>
<i>PCCInst</i>	9501	<i>Installing Domain/PCC in Your Series DN3000/DN4000</i>
<i>PCCUse</i>	9498	<i>Using Domain/PCC Compatibility Products</i>
<i>PCIPlan</i>	7457	<i>Planning for and Installing the Domain/PCI Connection</i>
<i>PCIUse</i>	7460	<i>Using Your Domain/PCI Connection</i>
<i>PHIGSCalls</i>	9702	<i>Domain/PHIGS Call Reference</i>
<i>PHIGSProg</i>	9701	<i>Programming with Domain/PHIGS</i>
<i>PostRef</i>	7765	<i>PostScript Language Reference</i>
<i>RJERef</i>	5146	<i>Using the Domain System RJE Emulator Package</i>
<i>S10Inst</i>	11903	<i>Unpacking and Installing the Series 10000 Workstation and Server</i>
<i>S10-Op</i>	12880	<i>Operating the Series 10000 Workstation and Server</i>
<i>S10Prog</i>	11404	<i>Series 10000 Programmer's Handbook</i>
<i>S10Serv</i>	11719	<i>Servicing the Series 10000 Workstation and Server</i>
<i>S10TrefV1</i>	11720	<i>Series 10000 Technical Reference Library, Volume 1: Processors and Instruction Set</i>
<i>S10TrefV2</i>	11721	<i>Series 10000 Technical Reference Library, Volume 2: I/O Devices</i>
<i>S10TrefV3</i>	11722	<i>Series 10000 Technical Reference Library, Volume 3: Graphics Controllers</i>
<i>S10TrefV4</i>	11723	<i>Series 10000 Technical Reference Library, Volume 4: Network Controllers</i>

<i>S10TrefV5</i>	11724	<i>Series 10000 Technical Reference Library, Volume 5: Hardware Specifications</i>
<i>SNA3270Man</i>	7763	<i>Managing the Domain/SNA-3270 Gateway</i>
<i>SNA3770Man</i>	11901	<i>Managing the Domain/SNA-3770 Gateway</i>
<i>SNA3270Pln</i>	7760	<i>Planning for the Domain/SNA-3270 Gateway</i>
<i>SNA3770Pln</i>	12882	<i>Planning for the Domain/SNA-3770 Gateway</i>
<i>SNA3270Use</i>	7762	<i>Using the Domain/SNA-3270 Gateway</i>
<i>SNA3770Use</i>	12881	<i>Using the Domain/SNA-3770 Gateway</i>
<i>SpecsHard</i>	9859	<i>Domain Hardware Site Planning Specifications</i>
<i>SPEInst</i>	9798	<i>Installing and Programming the Domain Series 3000 SPE Option</i>
<i>SR10Trans</i>	11435	<i>Making the Transition to SR10 Operating System Releases</i>
<i>StreamsTool</i>	8863	<i>Using the Open System Toolkit to Extend the Streams Facility</i>
<i>SysVCmd</i>	5798	<i>SysV Command Reference</i>
<i>SysVMan</i>	10851	<i>Managing SysV System Software</i>
<i>SysVPgRef</i>	5799	<i>SysV Programmer's Reference</i>
<i>SysVStrGet</i>	12276	<i>Getting Started with SysV STREAMS</i>
<i>SysVStrPrg</i>	12275	<i>Programming with SysV STREAMS</i>
<i>SysVTIPrg</i>	12205	<i>Programming with the SysV Transport Interface</i>
<i>SysVUsg</i>	11022	<i>Using Your SysV Environment</i>
<i>TabInst</i>	8257	<i>Installing the Tablet</i>

<i>TCPMan</i>	8543	<i>Configuring and Managing TCP/IP</i>
<i>TCPTrans</i>	11717	<i>Making the Transition to SR10 TCP/IP</i>
<i>TCPUseApl</i>	8667	<i>Using TCP/IP Network Applications</i>
<i>TransUse</i>	12887	<i>Using TransScript with Domain/OS</i>
<i>UNIXTextP</i>	11018	<i>UNIX Text Processing</i>
<i>VersInst</i>	8261	<i>Installing the Printer/Plotter</i>
<i>WrGPIO</i>	959	<i>Writing Device Drivers with GPIO Calls</i>
<i>X25Inst</i>	8264	<i>Installing the COM-X.25 Product</i>
<i>X25Ref</i>	3223	<i>Domain X.25 Reference</i>

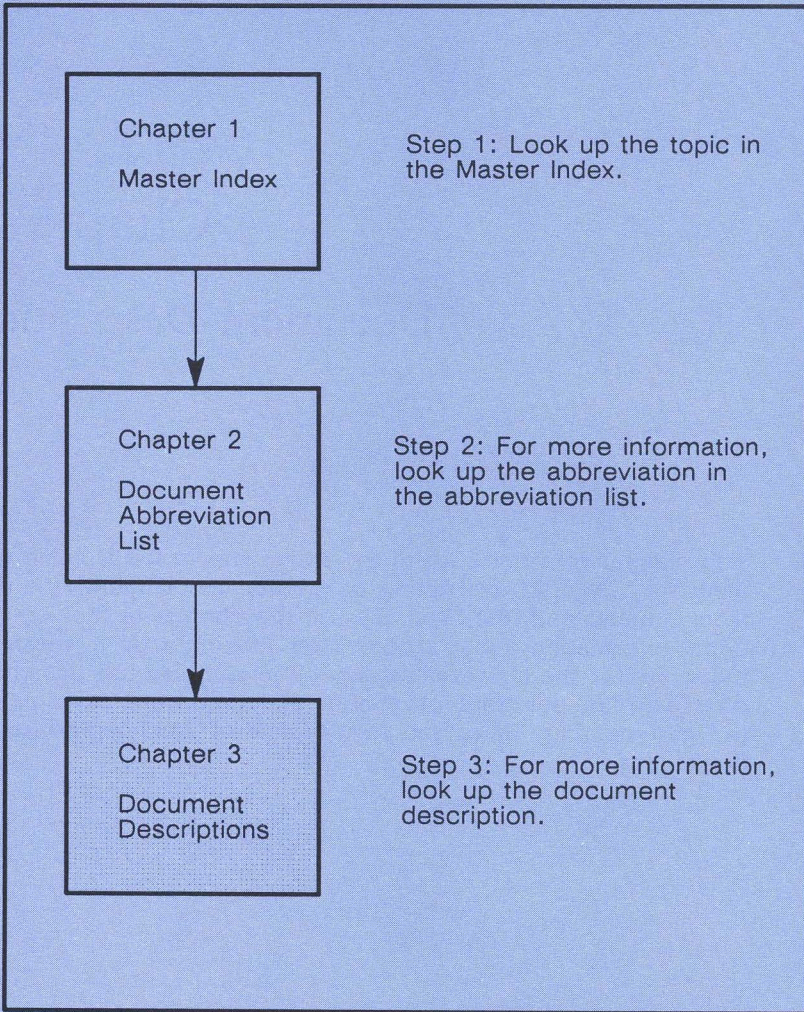




# Chapter 3

## Document Descriptions

This chapter provides a list of the documents in the Domain document set. A short description of the document follows the document number and title. You can use this chapter to look up additional information about a book after looking it up in the master index and/or the abbreviation list. You can also use this chapter directly to find out more information about a document if you know the part number, or to get an overview of Apollo products and documents.



*Steps in Using This Manual*

The following example illustrates how to use this manual. Assume that you are writing an applications program and want to improve the performance of the program:

1. Look up the topic in Chapter 1. Under **performance analysis**, the index in Chapter 1 lists several programs referring to a document abbreviated as *DPAK*:

**performance analysis**

procedure-level using DPAT, *DPAK*

statement-level using HPC, *DPAK*

system-level using DSPST, *DPAK*

with Domain/PAK, *DPAK*

2. Look up *DPAK* in Chapter 2 to determine the part number and document title.

*DPAK*                    8906    *Analyzing Program Performance with Domain/PAK*

3. Look up the document description in Chapter 3 if you want more detailed information on this document.

8906    *Analyzing Program Performance with Domain/PAK*  
This manual discusses the Domain/PAK (Domain Performance Analysis Kit) program. The DPSPT program analyzes the relative use of CPU time by several processes at the system level. The DPAT program analyzes the performance of procedures within programs, including I/O, paging, and system call performance. The HPC program analyzes the performance of statements within a program to show which parts of the program are most compute intensive.

If you know the name of a document and just want to look up the part number, you can refer directly to Chapter 4, which lists documents alphabetically; for example,

*Analyzing Program Performance with Domain/PAK*                    8906



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## Document Descriptions

Part Number	Title and Description
530	<p><i>Domain FORTRAN Language Reference</i></p> <p>This manual describes the Domain FORTRAN programming language. The manual discusses functions, data types, errors, extensions, programming, compiling, debugging, linking, cross-language communication, external routines, extensions, and I/O, as well as providing sample programs. The sample programs are also available online.</p>
792	<p><i>Domain Pascal Language Reference</i></p> <p>This manual describes the Domain Pascal programming language. The manual discusses data types, case sensitivity, errors, extensions, programming, compiling, debugging, linking, cross-language communication, extensions, and external routines as well as providing sample programs. The sample programs are also available online.</p>
959	<p><i>Writing Device Drivers with GPIO Calls</i></p> <p>This manual describes I/O hardware and software and writing a driver. The appendixes provide reference information, programming information, and sample drivers.</p>
1950	<p><i>Introduction to D3M</i></p> <p>This manual is a user's guide and overall introduction to the D3M (Domain Distributed Data Management) product. The manual discusses basic concepts, data analysis, database design, viewing data, program interfaces, generating reports, distributed database applications, and advanced concepts.</p>

- 1955      *Programming with Domain Core Graphics*  
This manual discusses attributes, drawing primitives, viewing primitives, color, and programming. The manual also provides reference sections for data types and calls. This graphics package provides low-level graphics calls, but does not store picture data in a metafile (as the GMR packages do) or provide access to the graphics instruction set (as the GSR package does).
- 2093      *Domain/C Language Reference*  
This manual describes the Domain/C programming language. The manual discusses functions, data types, errors, extensions, programming, compiling, debugging, linking, cross-language communication, extensions, external routines, and I/O, as well as providing sample programs. The sample programs are also available online.
- 2348      *Getting Started with Domain/OS*  
This tutorial introduces the Domain/OS operating system. The manual covers the three operating environments in the operating system: Aegis, BSD, and SysV. The guide discusses logging in, managing windows, organizing information, and manipulating text; as well as specific topics for each operating environment.
- 2547      *Aegis Command Reference*  
This manual describes the Aegis shell commands, including commands for manipulating files and directories, editing files, formatting files, developing programs, managing nodes, requesting process and system information, setting process conditions, using shell variables, managing network functions, using miscellaneous utilities, and communicating with remote computers.
- 2685      *Domain Documentation Quick Reference*  
This guide provides a quick reference to the Domain document set. It is a companion to the guide you are currently reading, the *Domain Documentation Master Index* (11242).

- 3016            *Domain Software Engineering Environment (DSEE) Command Reference*  
This manual describes commands for the DSEE computer-aided software engineering (CASE) software. The manual describes the command interface, command options, argument syntax, and command descriptions; the manual also discusses writing system models, writing threads, and administering a DSEE environment. Appendixes provide sample system models, sample configuration threads, and a command index.
- 3135            *Servicing the DN3xx*  
This manual provides specifications, theory of operation, diagnostics, and FRU (field replaceable unit) part removal/replacement information for the DN3xx series of workstations. The manual also includes error codes, troubleshooting flowcharts, and preventive maintenance procedures.
- 3223            *Domain X.25 Reference*  
This reference manual describes all tasks associated with the X.25 software which includes virtual terminal and file transfer services. The software is used with the COM-X.25 controller to communicate over a modem using the X.25 packet-switching network protocol.
- 3239            *Trouble-Shooting Guide (DN4xx and DN6xx)*  
This manual provides specification, theory of operation, diagnostic, and FRU (field replaceable unit) part removal/replacement information for the DN4xx and DN6xx series of workstations. The manual also includes error codes, troubleshooting, and preventive maintenance procedures.
- 3660            *DPSS/Mail User's Guide*  
This manual describes the DPSS/Mail system. The manual discusses getting started, menu-based mail, advanced mail, command-based mail, and customizing mail. The manual also includes a tutorial and a system administrator's guide.

- 4107            *Operating the DN550/DN560/DN570*  
This manual provides operating information and LED error codes for these DN5xx workstations, including the monitor, cartridge tape drive, and Winchester disk. Separate manuals describe the operation of the other DN5xx series workstations—the DN580, DN590, and the DN5xx-T series.
- 4108            *Unpacking and Installing the DN550/DN560/DN570(A) Workstation*  
This installation guide explains the unpacking, installing, starting, and testing of these DN5xx nodes. The guide also includes installation troubleshooting sections. Other guides describe the installation of other DN5xx or DN5xx-T nodes.
- 4299            *Domain/Dialogue User's Guide*  
This guide describes how to use this user interface product. You can use Domain/Dialogue with your application to provide a friendly user interface. The manual discusses concepts, syntax, designing an application, the user interface, task types, technique types, data types, and library routines, as well as providing sample programs and a quick reference section. A related manual is *Getting Started with Domain/Dialogue* (10218). A related product is Open Dialogue, which is portable to other vendors' workstations and also allows you to extend the software with your own user interface primitives. The Open Dialogue manuals are *Creating User Interfaces with Open Dialogue* (11167), the *Open Dialogue Reference* (12807) and *Customizing Open Dialogue* (11166).
- 4302            *How to Design, Define, and Operate a D3M Database*  
This manual discusses the design of a database, aggregate databases, operation of a database, and D3M utilities. The manual also describes the schema, subschema, and aggregate schema data description languages.

- 4303            *How to Write DML Programs*  
This manual describes the D3M DML (Data Manipulation Language). A program can use the DML calls to open and close a database, control transactions, and modify the database. The manual includes examples in FORTRAN, Pascal, and C.
- 4304            *How to Use D3M/Dataview and Formatter*  
This manual describes the D3M Dataview data manipulation language. The manual describes Dataview, RDL (Report Definition Languages), and the Formatter software, as well as sample programs and sessions.
- 4678            *Unpacking and Installing the Domain Peripheral Cabinet*  
This installation guide explains the unpacking, installing, and inspecting of the peripheral cabinet.
- 4827            *Servicing the DN550/DN560/DN570*  
This manual provides specifications, theory of operation, diagnostics, troubleshooting, and FRU (field replaceable unit) part removal/replacement information for these DN5xx workstations. The manual also describes the servicing of the optional mass storage module, which can include a Winchester drive and/or cartridge tape mass storage devices. Separate manuals describe the servicing of the other DN5xx series workstations—the DN580 and the DN5xx-T series.
- 4957            *Operating the DSP80A/DSP90*  
This manual provides operating information for the DSP80A and DSP90 servers, including information on startup, shutdown, crashes, memory dumps, peripheral interfaces, error codes, specifications, and cabinet mounting.
- 4958            *Unpacking and Installing the DSP80A/DSP90*  
This installation guide explains the unpacking, installing, starting, and testing of the DSP80A or DSP90 server. The guide also includes a troubleshooting section.

- 5097      *Programming with Domain 2D Graphics Metafile Resource*  
This manual discusses displaying graphic images, developing application programs, modeling routines, attributes, text, segments, the display process, developing interactive applications, extensions, output, attribute classes, attribute blocks, and advanced display techniques using 2D GMR. Appendixes discuss building a debugger, the interlude program, and obsolete routines, as well as providing a keyboard chart. The 2D GMR package is a 2-dimensional software graphics package that can store picture data in a metafile. A related manual is the *Domain 2D Graphics Metafile Resource Call Reference* (9793).
- 5146      *Using the Domain System RJE Emulator Package*  
This guide describes how to use this software product to access IBM HASP, 2780, and 3780 environments over a network using Bisync protocols from an Apollo workstation. The manual discusses setting up configuration files, setting up an RJE (remote job entry) environment on an Apollo node, sending data to the host, and monitoring a Domain RJE session.
- 5224      *Domain 4014 User's Guide*  
This guide explains configuring, operating, and programming the Domain 4014 emulator. This emulator enables a Domain workstation to function as a Tektronix 4014 graphics terminal.
- 5447      *Unpacking and Installing the DN3xx*  
This installation guide explains the unpacking, installing, starting, and testing of the DN3xx nodes. The guide also includes an installation troubleshooting section.
- 5488      *Operating the DN3xx*  
This manual provides operating information for the DN3xx workstation, including information on startup, shutdown, the floppy disk drive, node crashes, memory dumps, and preventive maintenance.

- 5489            *Operating the DSP160*  
This manual provides operating information for the DSP160 and DSP160B server, including information on startup, shutdown, the floppy disk drive, crashes, memory dumps, and diagnostics.
- 5506            *Programming with Domain/OS Calls*  
This manual discusses using predefined data types, handling errors and faults, managing programs, performing I/O, accessing Domain types, using the Display Manager, using eventcounts, manipulating time, and formatting variables; as well as providing sample programs.
- 5509            *Operating the DN4xx/DN6xx*  
This manual provides operating information for the DN4xx and DN6xx workstations, including information on startup, shutdown, the floppy disk drive, node crashes, memory dumps, and preventive maintenance.
- 5694            *Managing Domain/OS and Domain Routing in an Internet*  
This manual discusses staging an internet installation, starting the routing process, preparing system resources, managing system resources, managing the internet configuration, changing network numbers, moving nodes, and troubleshooting. Appendixes contain a command quick reference and describe reference statistics.
- 5697            *Unpacking and Installing the Domain/BRIDGE Controllers*  
This installation guide explains the unpacking, installing, starting, and testing of the Domain/BRIDGE controller boards. Nodes with these boards can connect two Apollo Token Ring networks in an internet.
- 5798            *SysV Command Reference*  
This manual provides reference information on SysV system commands and games. The manual covers sections 1 and 6 of the man pages.

- 5799      *SysV Programmer's Reference*  
This manual provides reference information on SysV system calls, utilities, and library functions. The manual covers sections 2, 3, 4, and 5 of the **man** pages.
- 5800      *BSD Command Reference*  
This manual provides reference information on BSD system commands, games, and miscellaneous commands. The manual covers sections 1, 6, and 7 of the **man** pages.
- 5801      *BSD Programmer's Reference*  
This manual provides reference information on BSD system calls, utilities, and library functions. The manual covers sections 2, 3, 4, and 5 of the **man** pages.
- 5806      *Servicing the DSP80A/DSP90*  
This manual provides specifications, operating procedure, system description, diagnostics, FRU (field replaceable unit) part removal/replacement, and preventive maintenance information for these servers.
- 5807      *Programming with Domain 3D Graphics Metafile Resource*  
This manual discusses 3D metafiles, drawing primitives, direct attributes, modeling routines, attribute classes, attribute blocks, viewing parameters, displays, viewports, display-time features, interactive techniques, editing metafiles, using color, shading, programming techniques, and output using 3D GMR. The 3D GMR package is a 3-dimensional software graphics package that can store picture data in a metafile. A related manual is the *Domain 3D Graphics Metafile Resource Call Reference* (5812).
- 5808      *Programming with Domain Graphics Primitives*  
This manual discusses getting started, drawing figures, printing text, bitmaps, color, input events, the cursor, clip windows, plane masks, direct mode, and raster operations using GPR. Appendixes discuss node-dependent data, decomposition techniques, rendering techniques, and imaging mode,



as well as a keyboard chart and sample programs. The GPR package provides high-level graphics calls, but does not store picture data in a metafile (as the GMR packages do). A related manual is the *Domain Graphics Primitive Resource Call Reference* (7194).

- 5812      *Domain 3D Graphics Metafile Resource Call Reference*  
This manual discusses data types and calls, as well as providing a quick reference section for 3D GMR. The 3D GMR package is a 3-dimensional software graphics package that can store picture data in a metafile. A related manual is *Programming with Domain 3D Graphics Metafile Resource* (5807).
- 7194      *Domain Graphics Primitives Resource Call Reference*  
This manual discusses data types, calls, and errors. The GPR package provides high-level graphics calls, but does not store picture data in a metafile (as the GMR packages do). A related manual is *Programming with Domain Graphics Primitives* (5808).
- 7196      *Domain/OS Call Reference, Volume 1*  
This manual describes the Domain/OS system calls, in the following areas: access control lists, the calendar, the color table, event counts, errors, floating-point arithmetic, input/output switches, interprocess communications, mailboxes, mapped segments, magnetic tape streams, mutual exclusion locks, the naming server, the display manager, and the paste buffer. A related manual is the *Domain/OS Call Reference, Volume 2* (12888).
- 7450      *Unpacking and Installing the DN580*  
This installation guide explains the unpacking, installing, starting, and testing of the DN580 node. The guide also includes an installation troubleshooting section. Other guides describe the installation of other DN5xx or DN5xx-T nodes.

- 7451            *Operating the DN580*  
This manual provides operating information for the DN580 workstation, including information on startup, shutdown, crashes, memory dumps, the cartridge tape drive, the Winchester disk drive(s), preventive maintenance, and error codes.
- 7452            *Servicing the DN580/DN590*  
This manual provides specifications, theory of operation, diagnostics, troubleshooting, and FRU (field replaceable unit) part removal/replacement information for these DN5xx workstations. The manual also describes the servicing of the optional mass storage module, which can include a Winchester drive and/or cartridge tape mass storage devices. Separate manuals describe the servicing of the other DN5xx series nodes.
- 7456            *Installing the MSD-6250*  
This installation guide explains the unpacking, connecting (to a Domain node), and testing of the MSD-6250 peripheral tape drive. The MSD-6250 is a reel-to-reel, dual-speed tape drive.
- 7457            *Planning for and Installing the Domain/PCI Connection*  
This manual discusses planning for the Domain/PCI Connection, connecting IBM PC computers to an Apollo network or node, and installing the Domain/PCI-Ring board. The Domain/PCI products are the Domain/PCI-Ring board, which enables a connection directly to an Apollo Token Ring network, and Domain/PCI-1, which enables connection directly to a Domain node. Both products include Domain/PCI Connection software. Related manuals are *Using Your Domain/PCI Connection* (7460).

- 7460            *Using Your Domain/PCI Connection*  
This user's guide discusses the Domain/PCI Connection and **dterm** (Domain terminal program). The **dterm** program causes the PC to emulate a DEC VT100 terminal or a Domain node (without graphics or windowing capabilities). The manual includes a Domain/PCI user's guide, a **dterm** user's guide, and a system administrator's guide. Appendixes provide command references.
- 7760            *Planning for the Domain/SNA-3270 Gateway*  
This guide discusses planning for the Domain/SNA-3270 software product. Domain/SNA-3270 enables you to connect to a network based on the IBM SNA protocols. The guide discusses planning for software, hardware, and telecommunications. An appendix contains a planning checklist. The next three manuals in this document descriptions list are related manuals.
- 7761            *Installing the Domain/ComController Product*  
This installation guide explains the planning, installing, starting, and testing of the Domain/ComController. Use this controller with the Domain/SNA-3270, Domain/SNA-3770, and Domain/LU 6.2 software products. Related manuals are *Planning for the Domain/SNA-3270 Gateway* (7760), *Planning for the Domain/SNA-3770 Gateway* (12882), and *Planning for the Domain/LU 6.2 Gateway* (8918).
- 7762            *Using the Domain/SNA-3270 Gateway*  
This manual discusses using the 3278 and 3279 display emulators, the 3287 printer emulator, and the 3270 Application Programming Interface.
- 7763            *Managing the Domain/SNA-3270 Gateway*  
This manual discusses configuring and managing the Domain/SNA-3270 software product. The manual discusses configuring the 3270 gateway and IBM host. Appendixes contain configuration worksheets.

- 7765            *PostScript Language Reference*  
This manual discusses the PostScript page description language for text and graphics. PostScript is normally used to transmit complex page descriptions to output devices, such as laser printers. Some Apollo graphics packages, such as 2D GMR and 3D GMR, can produce PostScript output based on their programs. A related manual is *Using TranScript with Domain/OS* (12887).
- 7851            *Installing the Domain/Laser-26 Printer in a Domain System*  
This installation guide explains the unpacking, configuring, connecting (to a Domain node), and testing of the Domain/Laser-26 laser printer.
- 7852            *Operating the Domain/Laser-26 Printer*  
This operating guide describes operating and (operator) troubleshooting for the Domain/Laser-26 laser printer.
- 7857            *Unpacking and Installing Your Domain Personal Workstations and Servers*  
This installation guide explains the unpacking, installing, starting, and testing of the DN3000/DN4000 workstations and of the DSP3000/DSP4000 servers. The guide also includes sections on connecting to an Apollo Token Ring network or an IEEE 802.3 network, as well as installation troubleshooting sections.
- 7858            *Operating the Domain Personal Workstations and Servers*  
This manual provides operating information and LED error codes for these workstations and servers, including information on the monitor, cartridge tape drive, diskette drive, Winchester disk, and preventive maintenance procedures.
- 7859            *Servicing the Domain Personal Workstations and Servers*  
This manual provides specifications, theory of operation, diagnostics, troubleshooting, FRU (field replaceable unit) part removal/replacement, and preventive maintenance information for these workstations and servers.

- 7861            *Domain Personal Workstations and Servers Hardware Architecture Handbook*  
This manual provides information on the hardware architecture for the Domain Series 3000/Series 4000 workstations and servers. The manual describes the address space organization, memory organization and management, the bus system, graphics subsystems, and the network subsystem. The manual includes tables as well as block, memory, and register diagrams.
- 7864            *Installing the APPLE LaserWriter Printer in a Domain System*  
This installation guide explains the unpacking, configuring, connecting (to a Domain node), and testing of the APPLE LaserWriter laser printer.
- 8012            *Using the Domain/Access Application*  
This manual describes communicating with a DEC VAX computer, enabling access to VAX files, accessing files with commands and accessing files from a program. An appendix contains VAX/VMS file specifications.
- 8257            *Installing the Tablet*  
This installation guide explains the unpacking, configuring, connecting (to a Domain node), and testing of tablets. The tablet is either a Summagraphics Bit Pad One or Bit Pad Two.
- 8258            *Installing the Multi-Mode Printer*  
This installation guide explains the unpacking, configuring, connecting (to a Domain node), and testing of the GENICOM 3404 dot-matrix printer.
- 8261            *Installing the Printer/Plotter*  
This installation guide explains the unpacking, configuring, connecting (to a Domain node), and testing of the VERSATEC V-80 Electrostatic printer/plotter.
- 8262            *Installing the Disk Storage Module*  
This installation guide explains the unpacking, connecting (to a Domain node), and testing of the MSD300-M Winchester disk module.

- 8263            *Installing the MSD-1600*  
This installation guide explains the unpacking, connecting (to a Domain node), and testing of the the MSD-1600 peripheral tape drive. The MSD-1600 is a reel-to-reel tape drive.
- 8264            *Installing the COM-X.25 Product*  
This installation guide explains the configuring, installing, and testing of the COM-X.25 product. The COM-X.25 controller connects a node to a modem, and enables communication over the modem using the X.25 network protocols.
- 8265            *Unpacking and Installing the EtherController-MB*  
This installation guide explains the unpacking, installing, starting, and testing of the EtherController-MB. You can install this controller in any Domain system with a MULTIBUS card cage. The guide also describes connecting the controller to an IEEE 802.3 network, as well as the necessary DDF files for the controller.
- 8266            *Installing the IMAGEN Laser Printer*  
This installation guide explains the unpacking, configuring, connecting (to a Domain node), and testing of the IMAGEN laser printers.
- 8267            *Installing the FSD-500*  
This installation guide explains the unpacking, connecting (to a Domain node), and testing of the FSD-500 peripheral disk. The FSD-500 is a 500-megabyte fixed storage disk.
- 8268            *Installing Input/Output (I/O) Devices for Domain Nodes*  
This installation guide explains the connecting of peripheral devices to a serial, MULTIBUS, or VMEbus interface on a Domain node.
- 8543            *Configuring and Managing TCP/IP*  
This manual discusses selecting internet addresses, configuring administrative files, configuring hosts, and managing a TCP/IP internet.

- 8626            *Installing and Operating the Domain/DFL-100 Fiber Interface Unit*  
This installation guide explains the installing, starting, testing, and operating of this interface unit. The Domain/DFL-100 connects two Apollo Token Ring networks through fiber-optic cable.
- 8667            *Using TCP/IP Network Applications*  
This user's guide describes using the **telnet** virtual terminal interface, the **ftp** (file transfer program), and other network commands. These commands are normally used with a BSD or SysV operating environment and the TCP/IP network.
- 8684            *Ada Language Reference Manual*  
This reference manual describes the Ada programming language. Related manuals are the *Domain/Ada Development System Reference* (8917) and the *Domain/Ada Quick Reference* (10978).
- 8778            *Domain Personal Workstations and Servers Technical Reference*  
This manual provides detailed technical information on the Personal Workstations and Servers. This information includes theory of operation, the PC AT compatible bus, CPU, power supply, the Winchester disk drive, the floppy disk drive, the cartridge tape drive, graphics controllers, monitors, keyboards, pointing devices, the IEEE 802.3 network controller-AT, the serial/parallel controller, and the PC coprocessor. The manual includes part and bus-timing diagrams, as well as tables.
- 8788            *Getting Started with the Domain Software Engineering Environment (DSEE)*  
This manual is a tutorial for the DSEE computer-aided software engineering (CASE) software. The manual describes managing sources, building a program, modifying a program, managing releases, and managing a project.

- 8790            *Engineering in the DSEE Environment*  
This user's guide describes how to use DSEE (Domain Software Engineering Environment) to develop software applications. The manual discusses DSEE concepts and several case studies of software development.
- 8791            *Domain/CommonLISP User's Guide*  
This user's guide discusses Apollo's version of Common LISP. The manual discusses compiling and programming in Domain/CommonLISP, as well as providing sample programs and reference information. A companion manual is the *Domain/CommonLISP Reference* (10849).
- 8860            *Installing Software with Apollo's Release and Installation Tools*  
This guide describes installing Domain Standard Release software as well the standard installation for optional products. The manual discusses preparing for the installation, initializing a disk or storage module across the network, pre-installation tasks for system administrators, installing the software, configuring software, and setting up a protection model for installed software. The installation chapter contains recommendations for both simplified and sophisticated installation procedures. Appendixes discuss installation on the first SR10 node in a network, running the **invol** disk utility, running the **calendar** utility, and third-party software installation at SR10.
- 8862            *Domain Assembly Language Reference*  
This reference manual describes ASM (the Domain assembler), instruction conventions, pseudo-ops, directives, the listing file, and calling conventions. The appendixes describe error codes, legal instructions, the TERN instruction set, debugging, pre-SR9.5 calling conventions, pre-SR10 object file formats, the Integer Arithmetic Library, and the Floating-Point Package library.



- 8863      *Using the Open System Toolkit to Extend the Streams Facility*  
This manual discusses type managers, stream connections, shared objects, inheriting operations, and extended naming, as well as providing reference information on traits and operations. An appendix contains calls for type managers.
- 8906      *Analyzing Program Performance with Domain/PAK*  
This manual discusses the Domain/PAK (Domain Performance Analysis Kit) program. The DPSPT program analyzes the relative use of CPU time by several processes at the system level. The DPAT program analyzes the performance of procedures within programs, including I/O, paging, and system call performance. The HPC program analyzes the performance of statements within a program to show which parts of the program are most compute intensive.
- 8915      *Introducing the DSP9000*  
This manual describes the DSP9000 series of servers. The DSP9000 is a high-powered server, using vector processing and parallel processing. The manual is for users, system administrators, and hardware installers. The DSP9000 is based on the Fx/Series Supercomputer from Alliant Computer Systems.
- 8917      *Domain/Ada Development System Reference*  
This document set of five documents supports Apollo's implementation of the Ada programming language. The five documents include a user's guide, a debugger reference manual, a tutorial, a reference manual, and an implementation reference (explains details of this implementation of Ada). This document set does not include the other Ada manuals: the *Domain/Ada Quick Reference* (10978) and the *Ada Language Reference* (8684).
- 8918      *Planning for the Domain/LU 6.2 Gateway*  
This manual discusses planning the hardware, software, and telecommunications for this product. The Domain/LU 6.2 gateway is a software product that enables you to write programs that communi-

cate over an IBM SNA network using the LU 6.2 and PU 2.1 protocols. A related manual is *Installing the Domain/ComController Product* (7761). Other Domain/LU 6.2 manuals are *Managing the Domain/LU 6.2 Gateway* (8919) and the *Domain/LU 6.2 Transaction Verb Reference* (10017). Two related SNA manuals are *Planning for the Domain/SNA-3270 Gateway* (7760) and *Planning for the Domain/SNA-3770 Gateway* (12881).

- 8919      *Managing the Domain/LU 6.2 Gateway*  
This manual discusses planning configurations, configuring, managing, and troubleshooting this product. The manual also discusses configuring the target network. An appendix contains a configuration worksheet. Other Domain/LU 6.2 manuals are *Planning for the Domain/LU 6.2 Gateway* (8918) and the *Domain/LU 6.2 Transaction Verb Reference* (10017).
- 9329      *Using Domain Diagnostics, Volume 1*  
This manual provides information on the DEX (Diagnostic Executive), MD (Mnemonic Debugger), and online diagnostic tests. A related manual is *Using Domain Diagnostics, Volume 2* (11775).
- 9349      *Servicing Domain Monitors*  
This manual provides diagnostics, FRU (field replaceable unit) part removal/replacement, adjustment, and other servicing information for monitors used with Domain workstations.
- 9489      *Servicing the DN5xx-T Workstations and the DSP500-T Server*  
This manual provides specifications, theory of operation, diagnostics, troubleshooting, FRU (field replaceable unit) part removal/replacement, and preventive maintenance information for these workstations and servers. The manual also describes the servicing of the optional mass storage module, which can include a Winchester drive and/or cartridge tape mass storage devices. Separate manuals describe the servicing of the other DN5xx series workstations.

- 9490            *DN5xx-T Workstations and DSP500-T Server Hardware Architecture Handbook*  
This manual provides information on the hardware architecture for these workstations and the DSP500-T server. The manual describes memory organization and management, floating-point operations (the FPX™ instruction set), disk/tape operations, MULTIBUS operations, color graphics, network subsystem, keyboard control, VMEbus, AVME bus, and miscellaneous internal devices and systems. The manual includes tables as well as block, instruction set, and register diagrams.
- 9491            *DN5xx-T Workstations and DSP500-T Server Technical Reference*  
This manual provides detailed technical information on these workstations and the DSP500-T server. The manual describes the internal subassemblies, bus subassemblies, monitors, keyboards, and pointing devices. The manual includes block diagrams, tables, and parts diagrams.
- 9493            *Unpacking and Installing the DN5xx-T Workstations and the DSP500-T Server*  
This installation guide explains the unpacking, installing, starting, and testing of these nodes and server. The guide also includes a troubleshooting section. Other guides describe the installation of other DN5xx nodes.
- 9494            *Operating the DN5xx-T Workstations and the DSP500-T Server*  
This manual provides operating information and LED error codes for these workstations and the DSP500-T server, including information on the monitor, cartridge tape drive, Winchester disk, and preventive maintenance procedures.
- 9498            *Using Domain/PCC Compatibility Products*  
This manual explains using the Domain/PCC on a DN3000 or DN4000 workstation. The manual discusses getting started, the Domain/PCC environment, using DOS, using application programs, connecting to additional Domain resources, and

tailoring Domain/PCC. A companion manual is *Installing Domain/PCC in Your Series DN3000/DN4000* (9501).

- 9501      *Installing Domain/PCC in Your Series DN3000/DN4000*  
This manual explains the checking, installing, starting, and testing of the Domain/PCC hardware for these workstations. The Domain/PCC hardware and software emulate an IBM PC AT on a DN3000 or DN4000. The manual also describes the Device Descriptor Files. A companion manual is *Using Domain/PCC Compatibility Products* (9501).
- 9701      *Programming with Domain/PHIGS*  
This manual describes the Domain/PHIGS graphics environment, drawing primitives, attributes, structure operations, combining structures, structure transformations, workstation operations, user interaction, and error handling. An appendix discusses allowable differences between Domain/PHIGS and the PHIGS standard. PHIGS is an acronym for Programmers' Hierarchical Interactive Graphics System. You can use the Domain/PHIGS package for sophisticated 3-dimensional graphics applications, in which graphics information can be stored in structures.
- 9702      *Domain/PHIGS Call Reference*  
This manual provides reference information on PHIGS control, output primitive, attribute specification, transformation, structure content, structure, display, input, inquiry, and error control routines, as well as the FORTRAN binding (version) of PHIGS and Apollo-defined utilities. Appendixes discuss data types and data records, as well as providing a quick reference.
- 9791      *Domain Graphics Instruction Set*  
This manual discusses display-list control, set attribute, device control, block transfer, and draw instructions. Appendixes provide summary reference information. Use the GSR software package to access these instructions. A companion manual is *Programming with Domain Graphics Service Routines* (9797).

- 9793      *Domain 2D Graphics Metafile Resource Call Reference*  
This manual discusses data types and calls, as well as providing a quick reference section. The 2D GMR package is a 2-dimensional software graphics package that can store picture data in a metafile. A related manual is *Programming with 2D Graphics Metafile Resource* (5097).
- 9797      *Programming with Domain Graphics Service Routines*  
This manual discusses mode of operation, attributes, the graphics instruction set, GSR primitives, polygon performance, transformations, data types, debugging, and GSR programs. The GSR software package provides access to Apollo instruction set graphics. A companion manual is the *Domain Graphics Instruction Set* (9791).
- 9798      *Installing and Programming the Domain Series 3000 SPE Option*  
This manual explains the installing, starting, and testing of the SPE (serial-parallel expansion) option hardware for a Domain Series 3000 system. The manual also describes the starting, using, programming, and testing of the SPE software.
- 9859      *Domain Hardware Site Planning Specifications*  
This manual presents hardware specifications for workstations, servers, monitors, keyboards, pointing devices, storage devices, printers, other peripherals, plugs, and receptacles. The manual also discusses electrical and environmental requirements for Domain hardware. Appendix A contains the NEMA and International plugs and receptacles specifications. Appendix B contains site-planning worksheets.
- 9860      *Installing Coaxial Cable and Accessories for an Apollo Token Ring Network*  
This installation guide explains installing and testing coaxial cable, the Domain/DQC Quick Connect System, network switches, and other accessories. The guide also provides specification and ordering information. A related manual is *Planning Domain Networks and Internets* (9916).

- 9906            *Installing and Operating the Tektronix 4692 Printer Interface*  
This installation guide explains the unpacking, configuring, installation (in a Domain node), and testing of a printer interface board for the Tektronix color 4692 printer. The guide also explains the connecting of the color printer to the interface board.
- 9916            *Planning Domain Networks and Internets*  
This guide provides planning information for Apollo Token Ring networks, IEEE 802.3 networks, TCP/IP internets, and Domain internets. Appendixes discuss ordering and fiber-optic information. Related manuals are *Installing Coaxial Cable and Accessories for an Apollo Token Ring Network* (9860), *Managing Domain/OS and Domain Routing in an Internet* (5694), and *Configuring and Managing TCP/IP* (8543).
- 10005          *Apollo Token Ring Media Access Control Layer and Physical Layer Protocols*  
This manual describes the protocols for the Apollo Token Ring (ATR) network. The manual includes an appendix on coaxial driver, receiver, and cable specifications.
- 10017          *Domain/LU 6.2 Transaction Verb Reference*  
This manual discusses programming with the LU 6.2 verbs (calls). The Domain/LU 6.2 gateway is a software product that enables you to communicate over an IBM SNA network using the LU 6.2 and PU 2.1 protocols. This manual discusses the LU6.2 verbs used in writing programs that communicate over a LU 6.2-based network. Related manuals are *Planning for the Domain/LU 6.2 Gateway* (8918) and *Managing the Domain/LU 6.2 Gateway* (8919).
- 10045          *Installing the Domain 5080 Emulator*  
This manual discusses planning, installing, starting, testing, and troubleshooting of local and remote Domain 5080 emulator configurations. The Domain 5080 emulator displays an IBM 5080 display (generated by an IBM host computer) on an Apollo workstation.

- 10046            *Using the Domain 5080 Emulator*  
This manual discusses getting acquainted with local images, using the keyboard, using peripherals, setting up the emulator; as well as providing a sample session, user notes, a setup option reference guide, and a local image gallery for Domain 5080. The Domain 5080 emulator displays an IBM 5080 display (generated by an IBM host computer) on an Apollo workstation.
- 10047            *Managing the Domain 5080 Emulator*  
This manual discusses gateway hardware, gateway software, configuring the gateway, maintaining the gateway, gateway diagnostics, the image trace, utilities, and the build DDF script for Domain 5080. Appendixes provide configuration information. The Domain 5080 emulator displays an IBM 5080 display (generated by an IBM host computer) on an Apollo workstation.
- 10173            *Managing the Domain/Access Application*  
This manual describes planning for Domain/Access (access to DEC VAX computers), configuring the VAX, testing, and troubleshooting. Appendixes provide a planning checklist and a command reference.
- 10200            *Network Computing System (NCS) Reference*  
This manual describes the NCS (Network Computing System). NCS enables a program to run on several nodes simultaneously in a distributed computing environment.
- 10218            *Getting Started with Domain/Dialogue*  
This tutorial guide introduces the Domain/Dialogue user interface product. You can use Domain/Dialogue to write interactive, friendly interfaces for applications. A related manual is the *Domain/Dialogue User's Guide* (4299).
- 10233            *Concurrent Programming Support (CPS) Reference*  
This manual describes calls and data types used in concurrent programming (programs that run on several nodes simultaneously). A related manual is the *Network Computing System (NCS) Reference* (10200).

- 10264      *Domain Software Engineering Environment (DSEE) Call Reference*  
This manual describes calls for the DSEE computer-aided software engineering (CASE) software.
- 10265      *Planning for the Domain 5080 Emulator*  
This manual discusses configurations, environmental requirements, electrical requirements, hardware planning, software planning, remote communications, coaxial cable installation, and power cords for Domain 5080. Appendixes contain checklists and specifications. The Domain 5080 emulator displays an IBM 5080 display (generated by an IBM host computer) on an Apollo workstation.
- 10332      *Adding Third-Party AT Compatible Options to Domain Workstations and Writing Device Drivers*  
This manual describes adding IBM PC AT compatible bus options to Domain workstations or servers. The manual discusses hardware considerations, devices drivers, and installation.
- 10409      *Installing Graphics Controllers in the PC AT Compatible Bus*  
This installation guide explains the unpacking and installing of a graphics controller kit for the Personal Workstations. The controller kits are 8-plane, 4-plane, 19-inch monochrome, or 15-inch monochrome.
- 10414      *Using NFS on the Domain Network*  
This manual discusses using Domain NFS (Network File System). The manual discusses prerequisites, remote file systems, accessing files, managing NFS, and troubleshooting. Domain NFS would normally be used to access files on other (non-Apollo) systems that use NFS.
- 10430      *Domain Graphics Primitives Quick Reference*  
This manual provides a quick reference for GPR data types and calls. The *Domain Graphics Primitives Call Reference* (7194) describes the data types and calls in more detail.



- 10531      *Domain Series 3000 Configuration Worksheet*  
This double-sided card provides configuration information for installers of Domain Series 3000 workstations or servers.
- 10614      *Installing the 802.3 Network Controller-AT*  
This installation guide explains the unpacking, installing, starting, and testing of an IEEE 802.3 ETHERNET controller in Series 3000 and Series 4000 workstations or servers.
- 10615      *Installing Memory in Your Domain Series 3000/Series 4000*  
This installation guide explains the unpacking, installing, starting, and testing of additional memory modules in these workstations. The Domain Series 3000 systems use 2-MB memory modules; the Domain Series 4000 systems use 4-MB or 8-MB modules.
- 10616      *Installing the Apollo Token Ring Network Controller-AT*  
This installation guide explains the installing, configuring, connecting (to a network), testing, and installation troubleshooting for this network controller. The guide also discusses the planning and preparing for an installation.
- 10849      *Domain/CommonLISP Reference*  
This reference manual provides reference information on Apollo's implementation of Common LISP. The manual discusses compiling and programming in Domain/CommonLISP, as well as Domain/CommonLISP commands, functions, extensions, input/output, macros, and symbols.
- 10851      *Managing SysV System Software*  
This manual describes system administration for the SysV operating environment. The manual discusses the network environment, node administration, registries, security, backups, the UNIX line-printer subsystem, **uucp** network communications, and administrative commands.

- 10852      *Managing Aegis System Software*  
This manual describes system administration for the Aegis operating environment. The manual discusses the network environment, node administration, accounts, security, backups, system usage, and administrative commands.
- 10853      *Managing BSD System Software*  
This manual describes system administration for the BSD operating environment. The manual discusses the network environment, node administration, registries, security, back ups, the UNIX line printer subsystem, **uucp** network communications, mail, and administrative commands.
- 10978      *Domain/Ada Quick Reference*  
This guide provides quick reference information for the Domain/Ada programming language.
- 11010      *Domain/OS Programming Environment Reference*  
This reference manual describes the programming tools for the BSD and SysV operating environments, as well as the binder and librarian commands (**bind**, **lbr**, and **inlib**) for the Aegis operating environment.
- 11018      *UNIX Text Processing*  
This manual describes editing, text processing, macros, text analysis, formatting tables, typesetting equations, drawing pictures, and the associated UNIX tools, such as **nroff** and **troff**.
- 11020      *Using Your BSD Environment*  
This guide discusses starting up, logging in, using the Display Manager, controlling the display, editing a pad, using the Bourne shell, using the C shell, using the Korn shell, managing files, managing directories, managing links, and controlling access, as well as unique features of the BSD operating environment. The appendixes are summary reference sections. Related manuals are the *Domain/OS Display Manager Command Reference* (11418), and the *BSD Command Reference* (5800).

- 11021 *Using Your Aegis Environment*  
This guide discusses starting up, logging in, using the Display Manager, controlling the display, editing a pad, using the shell, managing files, managing directories, managing links, controlling access, and writing shell scripts in the Aegis operating environment. The appendixes are summary reference sections and sample shell scripts. Related manuals are the *Domain/OS Display Manager Command Reference* (11418), and the *Aegis Command Reference* (2547).
- 11022 *Using Your SysV Environment*  
This guide discusses starting up, logging in, using the Display Manager, controlling the display, editing a pad, using the Bourne shell, using the C shell, using the Korn shell, managing files, managing directories, managing links, and controlling access, as well as unique features of the SysV operating environment. The appendixes are summary reference sections. Related manuals are the *Domain/OS Display Manager Command Reference* (11418), and the *SysV Command Reference* (5798).
- 11024 *Domain Distributed Debugging Environment Reference*  
This manual describes a debugger for high-level programming languages. The manual discusses using the debugger and the debugger commands, as well as providing a tutorial.
- 11032 *Domain Series 4000 Configuration Worksheet*  
This double-sided card provides configuration information for installers of Domain Series 4000 workstations or servers.
- 11166 *Customizing Open Dialogue*  
This manual explains how a C++ programmer can modify the Open Dialogue product by creating and adding new classes of objects to the user interface management system. The manual provides step-by-step directions and reference chapters. Related manuals are *Creating User Interfaces with Open Dialogue* (11167) and the *Open Dialogue Reference* (12807).

- 11167      *Creating User Interfaces with Open Dialogue*  
This manual describes how to use this user interface system to create a user interface for an application. The manual summarizes the steps for using Open Dialogue. The manual then describes how to define an interface and how to write an application that uses the interface. Related manuals are *Customizing Open Dialogue* (11166) and the *Open Dialogue Reference* (12807).
- 11242      *Domain Documentation Master Index*  
This is the document you are currently reading. This reference guide provides a master index to the Domain document set, a list of abbreviations used in the master index, document descriptions, and an alphabetic document listing. A companion guide is the *Domain Documentation Quick Reference* (2685).
- 11270      *Retrieving Information with Domain/Delphi*  
This manual describes the Domain/Delphi online documentation system for Apollo documentation. The manual describes startup and basic interactions, topical searches, hierarchical browsing, and additional features. An appendix provides a quick reference.
- 11272      *Managing Application Software with NLS*  
This manual describes managing applications that rely on the NLS (Network License Server) to control licensing. The NLS provides a way of controlling application licenses for applications that run on a network. The manual discusses starting up the license server system, monitoring the system, troubleshooting, and modifying the license server database.
- 11273      *Licensing Application Software with NLS*  
This manual describes the NLS (Network License Server). The manual discusses using NLS calls and creating licenses. The appendix is a call reference of NLS calls.

- 11398      *Unpacking and Installing Your DN3040/DN4040 Workstation and the DSP3040/DSP4040 Server*  
This installation guide explains the unpacking, installing, rack mounting, starting, and testing of these workstations and servers. The guide also includes sections on connecting to an Apollo Token Ring network or an IEEE 802.3 network, as well as installation troubleshooting sections.
- 11400      *Servicing the DN3040/DN4040 Workstation and the DSP3040/DSP4040 Server*  
This manual provides specifications, diagnostics, troubleshooting, FRU (field replaceable unit) part removal/replacement, rack-mounting, and preventive maintenance information for this series. A related manual (which contains theory of operation and other related information) is *Servicing the Domain Personal Workstations and Servers* (7859).
- 11402      *Domain DN3040/DN4040 Configuration Worksheet*  
This double-sided card provides configuration information for installers of DN3040 workstations.
- 11404      *Series 10000 Programmer's Handbook*  
This manual describes the Series 10000 programming environment. The manual discusses natural alignment, the dual instruction set environment, debugging, GPIO device drivers, and system administration issues.
- 11418      *Domain/OS Display Manager Command Reference*  
This manual describes the Display Manager (DM) commands used by the Domain operating system (in all three operating environments). These commands are for moving the cursor, creating a process, controlling a process, creating windows and pads, managing windows, moving a pad under a window, editing a pad, using window groups and icons, and managing the display environment.
- 11435      *Making the Transition to SR10 Operating System Releases*  
This guide discusses the Domain Standard (software) Release 10. The SR10 release includes the operating system including all three operating envi-

ronments, and other standard software products. The guide discusses how SR10 changes affect all users, how SR10 affects system administrators, and how SR10 affects programmers.

- 11717      *Making the Transition to SR10 TCP/IP*  
This manual describes the changes that previous TCP/IP users will notice at SR10. The book also provides procedures for moving from pre-SR10 TCP/IP to SR10 TCP/IP.
- 11719      *Servicing the Series 10000 Workstation and Server*  
This manual provides specifications, theory of operation, diagnostics, troubleshooting, FRU (field replaceable unit) part removal/replacement, and preventive maintenance information for these workstations and servers.
- 11720      *Series 10000 Technical Reference Library, Volume 1: Processors and Instruction Set*  
This manual describes the processor architecture. The manual includes information on data representation, instruction format, addressing modes, program traps, the memory management subsystem, and floating-point exception processing, as well descriptions of all integer and floating-point instructions.
- 11721      *Series 10000 Technical Reference Library, Volume 2: I/O Devices*  
This manual describes the system Input/Output devices and the user-accessible buses, which are the VMEbus and the PC AT compatible bus. The manual describes the Winchester disk controller, the floppy/tape controller, serial I/O, the keyboard, the operator's console, and other devices such as the timer and the calendar.
- 11722      *Series 10000 Technical Reference Library, Volume 3: Graphics Controllers*  
This manual describes the software interface of the 8-plane and the 40-/80-plane graphics subsystems. The manual also describes the graphics commands and graphics register set.

- 11723      *Series 10000 Technical Reference Library, Volume 4: Network Controllers*  
 This manual describes the VMEbus Apollo Token Ring controller and the IEEE 802.3 ETHERNET controller. The manual also describes the data and control paths, the controller registers, and the software interface.
- 11724      *Series 10000 Technical Reference Library, Volume 5: Hardware Specifications*  
 This manual provides electrical and mechanical specifications for the Series 10000 workstations and servers.
- 11774      *Printing in the Aegis Environment*  
 This manual discusses defining the print environment, using printers, managing printers, writing printing application programs, and writing device drivers. An appendix contains a list of Apollo-supported print devices.
- 11775      *Using Domain Diagnostics, Volume 2*  
 This reference manual provides general information on the SAU (Stand-Alone Utilities directories) diagnostics. The manual describes diagnostic tests for the CPU, memory, disks, tape drives, networks, and buses. A related manual is *Using Domain Diagnostics, Volume 1* (9329).
- 11895      *Managing the NCS Location Broker*  
 This manual describes NCS (Network Computing System), the Network Computing Architecture, Location Broker concepts, and Location Broker administrative tools. Appendixes provide reference information, as well as discussing the Location Broker under SR9 and SR10. A related manual is the *Network Computing System (NCS) Reference* (10200).
- 11901      *Managing the Domain/SNA-3770 Gateway*  
 This manual discusses configuring and managing the Domain/SNA-3770 software product. The manual discusses configuring the 3770 gateway and IBM host. Appendixes contain configuration worksheets. Related manuals are *Planning the Domain/SNA-3770 Gateway* (12882), *Installing the*

*Domain/ComController Product (7761), and Using the Domain/SNA-3770 Gateway (12881). See also the manuals for the Domain/SNA-3270 gateway, starting with Planning for the Domain/SNA-3270 Gateway (7760).*

11903      *Unpacking and Installing the Series 10000 Workstation and Server*

This installation guide explains the unpacking, installing, starting, and testing of these workstations and servers. The guide also includes sections on connecting to an Apollo Token Ring network or an IEEE 802.3 network, as well as installation troubleshooting sections.

12077      *Domain/GKS User and Reference Manual*

This manual describes the Domain/GKS environment, the Domain/GKS implementation of GKS, functions, and error messages, as well as running a Domain/GKS program. Appendixes discuss the Apollo workstation description table, and provide a function reference, a quick reference, a font guide, and the GMI (GKS Metafiles Interpreter). You can use Domain/GKS to develop graphics applications. Domain/GKS is a full implementation of the Graphics Kernel System international standard.

12205      *Programming with the SysV Transport Interface*

This manual discusses extending Domain SysV STREAMS by using the SysV transport interface layer. The manual describes the transport layer interface, using connection-mode service, using connectionless-mode service, using the read/write service, and advanced topics.

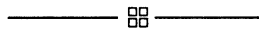
12275      *Programming with the SysV STREAMS*

This manual describes using basic user-level functions, using advanced user-level functions, constructing multiplexed streams, using messages, the internal STREAMS mechanism, writing modules, processing message queues, writing streams ends, writing drivers, writing multiplexors, defining a service interface, and installing modules and drivers, as well as advanced topics.



- 12276      *Getting Started with SysV STREAMS*  
This tutorial describes Domain SysV STREAMS, the structure of a stream, building a stream, using the system call interface, system-level functions, stream management, debugging, and driver designs.
- 12777      *The C++ Programming Language*  
This manual discusses Apollo's version of the C++ language. The manual describes programming in the C++ language and provides sample programs. The manual discusses C++ objects, classes, operators, data types, constructors, vectors, functions, and friends.
- 12807      *Open Dialogue Reference*  
This manual provides reference information for the Open Dialogue product. The manual describes the syntax used in Open Dialogue definition source files. In addition, the manual contains descriptions of the Open Dialogue classes, library routines, commands, and errors. Related manuals are *Creating User Interfaces with Open Dialogue* (11167), and *Customizing Open Dialogue* (11166).
- 12880      *Operating the Series 10000 Workstation and Server*  
This manual provides operating information and LED error codes for these workstations and servers, including information on the monitor, cartridge tape drive, diskette drive, Winchester disk, and preventive maintenance procedures.
- 12881      *Using the Domain/SNA-3770 Gateway*  
This manual discusses using the RJE (remote job entry) software and the Domain/SNA-3770 Application Programming Interface. Related manuals are *Planning the Domain/SNA-3770 Gateway* (12882), *Installing the Domain/ComController Product* (7761), and *Managing the Domain/SNA-3770 Gateway* (11901). See also the manuals for the Domain/SNA-3270 gateway, starting with *Planning for the Domain/SNA-3270 Gateway* (7760).

- 12882      *Planning for the Domain/SNA-3770 Gateway*  
This guide discusses planning for the Domain/SNA-3770 software product. Domain/SNA-3770 enables you to connect to a network based on the IBM SNA protocols. The guide discusses planning for software, hardware, and telecommunications. An appendix contains a planning checklist. Related manuals are *Using the Domain/SNA-3770 Gateway* (12881), *Installing the Domain/Com-Controller Product* (7761), and *Managing the Domain/SNA-3770 Gateway* (11901). See also the manuals for the Domain/SNA-3270 gateway, starting with *Planning for the Domain/SNA-3270 Gateway* (7760).
- 12887      *Using TranScript with Domain/OS*  
This guide describes the TranScript utilities, using the utilities, and building TranScript fonts. Appendices provide `man` reference pages, describing the TranScript utilities. You can use TranScript utilities to translate a `troff` file to the PostScript page description language. You can then send the TranScript file to an output device, such as a PostScript-based laser printer. A related manual is the *PostScript Language Reference Manual* (7765).
- 12888      *Domain/OS Call Reference, Volume 2*  
This manual describes the Domain/OS system calls, in the following areas: the process fault manager, the program manager, the process manager, printing, read/write storage, serial input/output, the screen manager, task control, clock management, the alarm, the touchpad, the mouse, the vector arithmetic library, and variable text format. A related manual is the *Domain/OS Call Reference, Volume 1* (7196).





## Chapter 4

### Alphabetic Document List

This chapter lists Domain documents alphabetically. You can use this list to find a part number based on the title of a book. If you cannot find a title in the alphabetic list, try looking under the titles that start with "Domain" because many titles use a format similar to *Domain FORTRAN Language Reference*. Many programming manuals have titles in the form of *Programming with 3D Graphics Metafile Resource* whereas the related calls manual starts with "Domain"—*Domain 3D Graphics Metafile Resource Call Reference*. If you are looking for an installation guide and cannot readily find it, try looking under "Unpacking" because several installation titles use a format similar to *Unpacking and Installing the DN550/DN560/DN570(A)*. Most task-oriented manuals start with a gerund, such as "Installing," "Operating," "Programming," "Servicing," "Unpacking," or "Using."

The following example illustrates how to use this manual. Assume that you are writing an applications program and want to improve the performance of the program:

1. Look up the topic in Chapter 1. Under **performance analysis**, the index in Chapter 1 lists several programs referring to a document abbreviated as *DPAK*:

**performance analysis**

procedure-level using DPAT, *DPAK*

statement-level using HPC, *DPAK*

system-level using DSPST, *DPAK*

with Domain/PAK, *DPAK*

2. Look up *DPAK* in Chapter 2 to determine the part number and document title.

*DPAK*                    8906    *Analyzing Program Performance with Domain/PAK*

3. Look up the document description in Chapter 3 if you want more detailed information on this document.

8906    *Analyzing Program Performance with Domain/PAK*  
This manual discusses the Domain/PAK (Domain Performance Analysis Kit) program. The DSPST program analyzes the relative use of CPU time by several processes at the system level. The DPAT program analyzes the performance of procedures within programs, including I/O, paging, and system call performance. The HPC program analyzes the performance of statements within a program to show which parts of the program are most compute intensive.

If you know the name of a document and just want to look up the part number, you can refer directly to Chapter 4, which lists documents alphabetically; for example,

*Analyzing Program Performance with Domain/PAK*                    8906

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## Alphabetic Document List

Title	Number
<i>Ada Language Reference Manual</i>	8684
<i>Adding Third-Party AT-Compatible Options to Domain Workstations and Writing Device Drivers</i>	10332
<i>Aegis Command Reference</i>	2547
<i>Analyzing Program Performance with Domain/PAK</i>	8906
<i>Apollo Token Ring Media Access Control Layer and Physical Layer Protocols</i>	10005
<i>BSD Command Reference</i>	5800
<i>BSD Programmer's Reference</i>	5801
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<i>Domain FORTRAN Language Reference</i>	530
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<i>Domain Graphics Primitives Resource Quick Reference</i>	10430
<i>Domain Hardware Site Planning Specifications</i>	9859
<i>Domain/LU 6.2 Transaction Verb Reference</i>	10017
<i>Domain/OS Call Reference, Volume 1</i>	7196
<i>Domain/OS Call Reference, Volume 2</i>	12888
<i>Domain/OS Display Manager Command Reference</i>	11418
<i>Domain/OS Programming Environment Reference</i>	11010
<i>Domain Pascal Language Reference</i>	792

<i>Domain Personal Workstations and Servers Hardware Architecture Handbook</i>	7861
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<i>Getting Started with SysV STREAMS</i>	12276
<i>Getting Started with the Domain Software Engineering Environment (DSEE)</i>	8788
<i>How to Design, Define, and Operate a D3M Database</i>	4302
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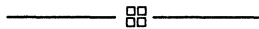
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Date of Publication: July, 1988

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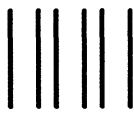
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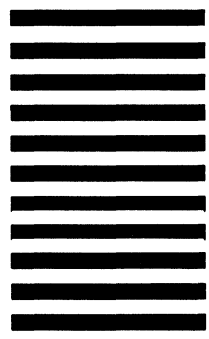
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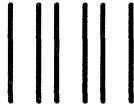
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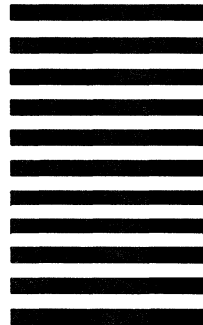
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