

PDP-8
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PDP-8 DIGITAL SOFTWARE NEWS

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The PDP-8 Digital Software News (a Bi-Monthly Publication) complements Reviews for COS-310, OS/8 and OS/78. It publishes new and revised Software Product Descriptions, programming notes, software problems and solutions, and documentation corrections. Much of the material is developed from answers to customer Software Performance Reports (SPRs) significant to the general audience, and is printed here to establish a reference notebook.

PRODUCTS SUPPORTED in the PDP-8 DIGITAL SOFTWARE NEWS

CAPS-8 V1	FOCAL/MPS V1	OS/8 FORTRAN IV PLOTTER V3C
COS-310 V3 (V7.00)	OS/8 V3D	OS/8 INDUSTRIAL BASIC V3
COS-310/2780 RDCP V6.05, V7	OS/8 FORTRAN IV V3D	OS/8 MACREL/LINKER V1A
DECnet-8 V1	OS/8 EXTENSION KIT V3D	OS/78 V1, V2
	RTS-8 V2B	

DISTRIBUTION

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Eleanor F. Hunter, Editor
Roxanne Alexander, Associate Editor

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UNIBUS

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OS/8
PDP
PHA
RSTS
RSX
TYPESET-8
TYPESET-11

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USER LETTER
Jan Fair, SPR Administration

Customers (and others) have brought to our attention the need for additional information regarding SPR service, particularly as it involves SPR Administration. The following represents our attempt to fulfill this need. Your comments and suggestions are most welcome.

HOW TO MAKE THE BEST USE OF SPR FORM

What WE Can Do for YOU

1. Blank SPR forms are available upon request in the desired quantities through SPR Administration (P.O.Box F) and your local office/SPR Center.
2. Copies of the SPR acknowledgment and answer are sent to the appropriate DIGITAL Office/SPR Center for their information.
3. SPRs marked *SOFTWARE ERROR* or *INQUIRY* will have a response for supported Category A and B products. These SPRs should refer to suspected deficiencies in the software.
4. SPRs marked *FYI* or *SUGGESTION* are forwarded to the pertinent software group for information purposes, and are responded to at their discretion.
5. SPRs marked *DOCUMENTATION ERROR* should report those problems dealing with software manuals or newsletters, and will be forwarded to the pertinent software group.

What YOU Can Do For US

1. Customer Name and Address and Problem Statement should always be typed or printed clearly.
2. SPRs should not be used for problems concerning software policy, software distribution, or hardware. Your local office should be contacted in these cases.
3. It would be most helpful to all concerned, if problems with patches are reported as soon as possible.
4. For security SPRs, it is imperative that the *DO NOT PUBLISH* box be marked.
5. It would be helpful if tapes submitted with SPRs are labeled (track and density), and have a directory attached.
6. Should you ever receive an unacceptable SPR response, please contact us or the appropriate SPR Center so that the response may be readdressed.

8 Digital Software News, December 1978 - January 1979

COS-31Ø V8
COMP

Seq 1 N
1 of 1

MAXIMUM SIZE OF DATA DIVISION (MD)

The COS-3ØØ/31Ø System Reference Manual (DEC-Ø8-OCOSA-G-D) incorrectly indicates that the data division of a DIBOL program can be up to 32K bytes. This should be 24K bytes.

On page 4-11, the meaning of the error message TOO MUCH DATA should be changed to read: Program's Data Division exceeds 24K bytes.

OS/8 V3D
PIP10 V3A

Seq 21.24.1 M
1 of 1

DATE '78 PATCH TO PIP10 (SR)

PROBLEM: When PIP10 creates a new file on a PDP-10 DECTape,
 the file gets the wrong date.

DIAGNOSIS: PIP10 does not understand about the new OS/8 extended
 date bits for today's date.

CURE: Install the following patch which fixes this problem
 until 1984.

```
.GET SYS:PIP10
.ODT
2612/1023 4760;1116
2760/XXXX 1554
1555/XXXX 1765;176;7112;7012;3116;1023;156;5754;7777
4320/6301 6301
^C
.SAVE SYS:PIP10
```

This patch upgrades PIP10 to V3B.

OS/8 EXTENSION KIT V3C
MSBAT V2A

SEQ. 30.22.1M
1 of 1

DIM STATEMENT NOT WORKING IN MSBAT (SR)

PROBLEM: MSBAT V2A is converting a 'DIM' punch in a mark sense card into a dimension statement. This statement is not recognized by BASIC.

DIAGNOSIS: The punch should be translated to 'DIM', not 'DIMENSION'.

SOLUTION: Apply the following patch:

```
.GET SYS:MSBAT
.ODT
4015/1505 1500
3671/6201 6202
^C
.SAVE SYS:MSBAT
```

This patch upgrades MSBAT to V2B.

Digital Software News, December 1978 - January 1979

OS/8 EXTENSION KIT V3D
MSBAT V3A

SEQ. 31.22.1 M
1 of 1

DIM STATEMENT NOT WORKING IN MSBAT (SR)

PROBLEM: MSBAT V3A is converting a 'DIM' punch in a mark sense card into a dimension statement. This statement is not recognized by BASIC.

DIAGNOSIS: The punch should be translated to 'DIM', not 'DIMENSION'.

SOLUTION: Apply the following patch:

```
.GET SYS:MSBAT
.ODT
4015/1505 1500
3671/6301 6302
^C
.SAVE SYS:MSBAT
```

This patch upgrades MSBAT to V3B.

Sequence

8 DIGITAL SOFTWARE NEWS
CUMULATIVE INDEX
DECEMBER 1978/JANUARY 1979

This is a complete listing of all articles for current products supported in the 8 Digital Software News. Missing sequence numbers may pertain to problems unique to other versions of the same product.

IMPORTANT!

The following numerical system has been grouped in logical order.

Retracted articles are indicated: RETRACTION.

Flags are currently being installed for all articles. The flags and definitions are as follows.

M = Mandatory patch. These are critical patches which each customer is required to install.

O = Optional patch. These articles are applicable only if the reported problems have occurred at the customer site or if they are unique to his operation.

R = Restriction. These problems are not patchable in released software. Restrictions are reviewed and corrected when possible as part of the normal release cycle.

N = NOTE. This information may be helpful to the user.

<u>Component</u>	<u>Sequence</u>	<u>Mon/Yr</u>
CAPS-8		
CAPS-8 UTIL CANNOT READ 13-BIT CHECKSUMS	01	Jun 76
BASIC IS OVERLY SENSITIVE TO INTERRUPTS	02	Dec 76
COS-310 V2 (6.05)		
DIRECTORY CHARACTERISTICS	01	Oct 76
LAYOUT OF A DATA FILE ON A LOGICAL UNIT	02	Dec 76
COMP.SV FILE PLACEMENT ON SYSTEM DISKS	03	Dec 76
DECTAPE HANDLER INSTALLATION	04	Dec 76
SYSGEN PRINTER OPTIONS	05	Dec 76
ERROR IN LAST RECORD OF A DATA FILE	06	Feb 77
LA35 WITH HARDWARE TOP OF FORM TIMING PROBLEM	07	Mar 77
ERRORS ON RX01 DISKETTES IN VERSION 6.05	08 M	Aug/Sep 78
MONITOR		
CHAIN OPERATION RESTRICTION	08	Apr 77
COS-310 V7		
RUNNING SYSGEN/C ON A SYSTEM WITH AN LQP	01 M	Jul 78
ERROR RECOVERY WITH THE RX HANDLER	02 M	Jul 78
EXTRA CHARACTERS PRINTED IN CREF HEADING	03 M	Jul 78
CHAINING DIBOL PROGRAMS	04 M	Jul 78
ERROR RECOVERY	05 M	Aug 78
RXU VS. PIP OPTION C	06 M	Aug 78
COS-310 V8		
COMP		
MAXIMUM SIZE OF DATA DIVISION	01 N	Dec 78/Jan 79

<u>Component</u>	<u>Sequence</u>	<u>Mon/Yr</u>
COS-310/2780 RCDP V6.05		
LOST RECORDS, INCORRECT RECORDS, CRASHES	01 M	Feb 78
INCORRECT SEGMENT LENGTHS	02 M	Feb 78
SOURCE FILE	03 M	Feb 78
SOURCE/DATA FILE OVERFLOW	04 M	Feb 78
TEMPORARY FILE BLOCK	05 M	Feb 78
FATAL ERROR MESSAGES	06 M	Feb 78
POSSIBLE SYSTEM CRASH OR LOOP WHEN EXITING	07 M	May 78
DECNET/8 V1		
NSP		
DISCONNECT BUG	01 M	Feb 78
MACREL/LINKER V1		
NOTES/PROGRAMMING HINTS		
HARDWARE RESTRICTIONS	01 N	Dec 77
OS/8 V3C		
BUILD		
CORRECTION FOR OS/8 HANDBOOK	06	Jul 76
CAMP		
CAMP FAILS TO UNLOAD MULTIPLE RK8E DRIVERS	01	Jan 77
CCL		
DEFAULT EXTENSIONS FOR TECO	03	Sep 76
ADDING A NEW CCL COMMAND	06	May 76
CREF		
FIXING PROBLEMS: /M, FIXMRI, DOLLAR SIGN BUG, AND JSW	10	Sep 76
FIXTAB	11	Sep 76
DIRECT		
DIRECT /B DOES NOT PRINT A SPACE	04	Sep 76
DOCUMENTATION		
OS/8 HANDBOOK		
DOCUMENTATION CHANGE	11	May 76
CHANGE TO CASSETTE BUILD PROCEDURE	12	Oct 76
FAULTY DESCRIPTION FOR ERROR PERFORMANCE	13	Nov 76
FORTRAN II		
FORTRAN II LIBRARY	10	Jan 77
HANDLERS		
MAGNETIC TAPE	07a	Sep 76
OPTIONAL PATCH TO NULL HANDLER	10	Sep 76
RK8 SYSTEM HANDLER DOES NOT ALWAYS RETRY ERRORS	13	May 76
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JSW BIT II AFFECTS SAVE	01 N	Feb 78
PROPER SETTING OF JSW BEFORE CHAINING	02 N	Feb 78
PAPER TAPE KIT		
OS/8 V3C PAPER TAPE KIT	01	Jan 77
TDINIT		
PROBLEM WITH TD8E SYSTEMS	01	Aug 76
UTILITIES		
HOW TO COPY LARGE FILES WITH PIP10	02	Apr 77
UNDEFINED PASS1 ARGUMENTS IN ZBLOCK	12	Apr 77

<u>Component</u>	<u>Sequence</u>	<u>Mon/Yr</u>
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BASIC		
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RETRACTION	20	XXX XX
BRTS GETS LOST	24	Jun 76
RESTRICTION ON EXTENDED RANGE FOR-NEXT LOOPS	25	Sep 76
BLOAD NOT RESTORING LOCATION 7600 PROPERLY	26	Jul 76
BAD LOCATION IN BASIC.FF	28	Sep 76
BRTS DOES REPETITIVE MULTIPLIES	31	Nov 76
ERROR IN BASIC EDITOR	32	Nov 76
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BASIC HALTS THE SYSTEM	35	Mar 77
LIMITATION OF RND	36	Oct 77
BATCH		
CANNOT MOVE BATCH INPUT FILE	05	Mar 76
RESTARTING BATCH	06	Sep 76
"MANUAL HELP MESSAGE" PRINTED ERRONEOUSLY	08	Jul 76
RUNNING BATCH IN 32K	09	Sep 76
GENIOX (formerly indexed under OS/8 V3C)		
GENIOX QUESTIONS	01	Nov 76
MARK SENSE BATCH		
MARK SENSE BATCH FORTRAN II READS THROUGH DOLLAR SIGNS	02	Jun 76
TECO		
CONDITIONS INSIDE ITERATIONS	04	Jul 76
OS/8 FORTRAN IV V3C		
POSSIBLE ERRONEOUS STATEMENT NUMBER IF ERROR TRACEBACK	02	Sep 76
USE OF EAE MODE A UNDER FRTS	15	Sep 76
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ERROR IN SINH FUNCTION	23	Sep 76
RETRACTION	25	XXX XX
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Q OPTION	31	Nov 76
FORMATTED INPUT RECORDS LONGER THAN 132 CHARACTERS	33	Nov 76
FRTS DOES NOT FLAG FIELD OVERFLOW PROPERLY ON OUTPUT	34	Feb 77
PLOT, ADC, AND REALTM MODULES	35	Jan 77
RUNNING FORTRAN IV UNDER BATCH IN 32K	36	Apr 77
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FORTRAN IV V3C CRASHES	38	Jun 77
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EQUIVALENCE STATEMENT IN FORTRAN IV V3C	40	Oct 77
QUESTIONS CONCERNING ARRAY SIZES	41	Oct 77
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OS/8 INDUSTRIAL BASIC V3		
INCORRECT SOFTWARE CORE SIZE	03	May 76
RESTRICTION ON EXTENDED RANGE FOR-NEXT LOOPS (See BASIC, Seq 25)	05	Sep 76
.SV FILES CANNOT BE CHAINED	06	Oct 76
NONEXISTENT CHARACTERS ERRONEOUSLY MATCHED	07	Mar 76
INDUSTRIAL BASIC EDITOR GARBAGE	08	Jun 77

<u>Component</u>	<u>Sequence</u>	<u>Mon/Yr</u>
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FUNCTIONALITY	01 N	Dec 77
RESTARTING OS/78	02 N	Jan 78
UTILITIES		
CANNOT MOVE BATCH INPUT FILE	01 R	Sep 77
SUGGESTED PATCH	02 O	Jan 78
OS/78 BASIC V1		
RESTRICTION ON EXTENDED RANGE FOR-NEXT LOOPS	01 R	Sep 77
OS/78 FORTRAN IV V1		
FRTS.SV V5		
FORMATTED INPUT RECORDS LONGER THAN 132 CHARACTERS	01 O	Sep 77
F4.SV V4		
PASSING ARGUMENTS	01 R	Sep 77
THE "EQUIVALENCE" STATEMENT	02 M	Sep 77
COMPILER VERSION NUMBER	03 N	Sep 77
QUESTIONS CONCERNING ARRAY SIZES	04	Oct 77
COMPILER GENERATES WRONG LENGTH	05 O	Oct 77
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EXECUTIVE		
CANNOT FREE PARTITION WITH WAITM	01	Mar 76
RTS-EXEC NON RESIDENT TASK PROBLEM	02	Jun 77
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SOME TIME-OF-DAY REQUESTS RUN 24 HOURS LATE	01	Mar 76
DATE PROBLEM	02 M	Feb 78
OS/8 SUPPORT TASK		
SOURCE CHANGE FOR EXECUTING BATCH	01	Feb 76
USING OS/I SUPPORT	02	Mar 76
COMMUNICATING BETWEEN OS/8 AND RTS-8	03	Mar 76
EMPTY KEYBOARD INPUT RING BUFFER	04 M	Feb 78
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UDCICS ERROR	01	Feb 78
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*Articles dated October 1977 appeared in OS/8 V3D Software Review, October 1977.		
DOCUMENTATION		
FAULTY DESCRIPTION FOR ERROR PERFORMANCE	01 N*	Oct 77
HANDLER		
CTRL/Z AND NULL	01 O*	Oct 77
NOTES/PROGRAMMING HINTS		
DATE ALGORITHM	01 N	Dec 77
UTILITIES		
ADDING A NEW CCL COMMAND	01 N*	Oct 77
DEFAULT EXTENSIONS FOR TECO	02 O*	Oct 77
HOW TO COPY LARGE FILES	03 O*	Oct 77

<u>Component</u>	<u>Sequence</u>	<u>Mon/Yr</u>
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BATCH		
CANNOT MOVE BATCH INPUT FILE	01 R	Oct 77
RESTARTING BATCH	02 N	Oct 77
RUNNING BATCH IN 32K	03 O	Oct 77
MSBAT		
MARK SENSE BATCH FORTRAN II READS THROUGH DOLLAR SIGNS	01 O	Oct 77
GENIOX		
GENIOX QUESTIONS	01 N	Oct 77
OS/8 FORTRAN IV V3D		
FORLIB.RL V5A		
PLOT, ADC, AND REALTM MODULES	01 N	Oct 77
F4.SV V4A		
PASSING ARGUMENTS	01 R	Oct 77
EQUIVALENCE STATEMENT	02 M	Oct 77
COMPILER VERSION NUMBERS	03 N	Oct 77
COMPILER GENERATES WRONG LENGTH	04 O	Oct 77
QUESTIONS CONCERNING ARRAY SIZES	05	Oct 77
FRTS V5A		
USE OF EAE MODE A	01 R	Oct 77
FORMATTED INPUT RECORDS LONGER THAN 132 CHARACTERS	02 O	Oct 77
RUNNING FORTRAN IV UNDER BATCH IN 32K	03 O	Oct 77
FPP-8A	04 O	Oct 77

<u>Component</u>	<u>Sequence</u>	<u>Mon/Yr</u>
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IMPORTANT!

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<u>Component</u>	<u>Sequence</u>	<u>Mon/Yr</u>
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DECNET-8 V1

DOCUMENTATION

ERROR IN DECNET MANUAL	10.0.1 N	May 78
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NSP

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OS/8 V3C

MONITOR

CCL

ERROR IN CCL (VERSION G) SOURCE PAPETAPE	20.3.1 O	May 78
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OS/8 V3D

MONITOR

NOTES & DOCUMENTATION

USING THE PDP-8/A PARALLEL PORT FOR A LINEPRINTER	21.1.1 N	Mar 78
SOFTWARE REVIEW CORRECTION	21.1.2 N	May 78
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<u>CCL</u>		
DEFAULT EXTENSIONS TO TECO	21.3.1 O	May 78

UTILITIES

CREF

BUG WITH FIXTAB	21.15.1 M	May 78
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EDIT

EDIT PROBLEM WITH NO FORMFEED AT END OF THE INPUT FILE	21.17.1 M	Mar 78
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FOTP

INCORRECT DIRECTORY VALIDATION	21.19.1 M	Aug/Sep 78
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MCPIP

DATE-78 PATCH FOR MCPIP	21.21.1 M	Mar 78
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PAL8

INCORRECT CORE SIZE ROUTINE	21.22.1 M	Aug/Sep 78
ERRONEOUS LINK GENERATION NOTED ON PAGE DIRECTIVE	21.22.2 M	Aug/Sep 78

PIP

PIP /Y OPTION DOES NOT WORK PROPERLY WHEN TRANSFERRING A SYSTEM HEAD FROM A DEVICE WHICH IS NOT CO-RESIDENT WITH SYS.	21.23.1 M	Aug/Sep 78
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PIP10

DATE '78 PATCH TO PIP10	21.24.1 M	Dec 78/Jan 79
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HOW TO WRITE TWO-PAGE SYSTEM HANDLERS	21.40.1 N	May 78
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LPQ01 HANDLER FAILS TO RECOGNIZE TABS	21.49.1 M	Mar 78
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BASIC FAILS TO OUTPUT 132 CHARACTERS TO LA-36	30.11.1 O	Mar 78
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BASIC		
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BASIC PNT FUNCTION	31.11.2 M	Jul 78
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CHANGING THE DEFAULT EU VALUE	31.20.1 O	Mar 78
CHANGING THE DEFAULT EH VALUE	31.20.2 O	Mar 78
REMOVING YANK PROTECTION	31.20.3 O	Mar 78
SCOPE SUPPORT FOR VT05 USERS	31.20.4 O	Mar 78
PROBLEM WITH AY COMMAND	31.20.5 M	Mar 78
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	31.21.3 O	Aug/Sep 78
MSBAT		
DIM STATEMENT NOT WORKING IN MSBAT	31.22.1 M	Dec 78/Jan 79
BATCH		
MANUAL INTERVENTION REQUIRED ERRONEOUSLY	31.23.1 M	Aug/Sep 78

<u>Component</u>	<u>Sequence</u>	<u>Mon/Yr</u>
OS/8 V3D MACREL/LINKER V1A		
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PATCH V1E TO LINK	40.2.2 M	May 78
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<u>MACREL</u>		
PATCH V1D TO MACREL	40.5.1 M	May 78
PATCH V1E TO MACREL	40.5.2 M	May 78
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FORTRAN COMPILER FAILS TO RECOGNIZE " AS AN ERROR	50.3.1 M	Mar 78
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<u>CLOCK</u>		
PROBLEM WITH DOUBLE PRECISION CLOCK REQUESTS	61.16.1 M	Aug/Sep 78
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<u>F4.SV</u>		
FORTRAN COMPILER FAILS TO RECOGNIZE " AS AN ERROR	70.93.1 M	Aug/Sep 78
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<u>UTILITIES</u>		
BITMAP FAILS WITH SPOOLER RUNNING	71.12.1 M	Aug/Sep 78
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<u>BCOMP</u>		
STRING ARRAY CONCATENATION	71.71.1 N	Aug/Sep 78
<u>BLOAD.SV</u>		
LARGE CORE IMAGE SAVE PROBLEM	71.72.1 M	Aug/Sep 78



DECUS SPECIAL INTEREST GROUPS

A DECUS Special Interest Group (SIG) is an activity whereby members of the DIGITAL Equipment Computer Users Society who share common interests in a particular field, join together to promote the interchange of information. Specialization may be in application areas such as education or industry, specific software systems such as OS/8 and RSX-11, or a specific main-frame such as the DECsystem-10/20.

SIG members derive numerous benefits from communicating with others who share specialized interests and who may wish to share their experiences. SIG s sponsor business meetings, tutorials, and workshops at the various chapter symposia which fulfill the two-fold purpose of fostering communication among users and between users and DIGITAL. Channeled communication provides DIGITAL and the users with insight into the direction of future developments. SIG s provide direct feedback to DIGITAL's in-house activities and have thereby made substantial contributions to OS/8, RSX-11, RSTS and TOPS-10.

User submitted articles, minutes of local meetings, and letters comprise the major portion of the individual SIG newsletters. Suggestions, hints, bug fixes, program plans, or questions of a non-commercial nature are suitable material for SIG newsletters.

SIG members are encouraged to make presentations at the SIG sessions held during DECUS Symposia.

The semi-annual U.S. Symposia sessions are organized by special interest areas. Submissions received from the user community are reviewed by symposia committee members from the special interest groups for appropriate placement on the agenda.

Special Interest Group participation in the review of programs submitted to the DECUS Program Library provides an opportunity to improve the quality and utility of programs available to you and to fellow users.

DIGITAL standards are issued to DECUS members for review and on the theory and philosophy of the standards. DECUS is a voting member of ANSI X3. Users are encouraged to register their areas of expertise with DECUS and assist with reviewing standards. SIG s often play a role in this process.

Below is a list of U.S. based Special Interest Groups within DECUS.

If you would like information regarding membership in any of the Special Interest Groups, contact DECUS U.S. Chapter, 129 Parker Street, PK3-1/E55, Maynard, Massachusetts 01754 or one of the other DECUS Chapter offices in Kanata, Sidney or Geneva.

NETSIG—Networks Special Interest Group
RSTS SIG—RSTS and RSTS/E Special Interest Group
SIGIG—Special Interest Group on Interactive Graphics
ESIG—Engineering Applications Special Interest Group
SIG-18—18-Bit Users Special Interest Group
12-Bit SIG—12-Bit User Special Interest Group
RSX-11/IAS SIG
RT-11 SIG
EDUSIG—Educational Users Special Interest Group
DEBUG—Digital Equipment Business Users Group
MUSIG—Mumps Special Interest Group
PASCAL SIG
DBMS SIG
TECO SIG
LSI-11 SIG
FOCAL SIG
STANDARDS SIG



DIGITAL EQUIPMENT COMPUTER USERS SOCIETY

12-BIT Special Interest Group

The 12-Bit Special Interest Group is an informal group of users interested in 12-Bit software and related subjects. The principle activities of the group are a newsletter and panel-workshop sessions at the DECUS Symposium. The only requirement for membership in the 12-Bit SIG is an interest in its goals and activities.

The goals of the 12-Bit SIG are:

- 1. Provide an informal means for quick dissemination of information and ideas about software developments and related topics.
2. Encourage users to write and make available useful programs.
3. Act as a forum for the development and communication of needs and ideas for future developments.
4. Serve as a communication channel between DEC and the user community.
5. Coordinate Special Interest Group sessions at the DECUS Symposia with the DECUS meetings committee and assist the DECUS librarian with 12-Bit submissions.

User generated software that the 12-Bit SIG has been involved with includes:

- 1. Extended and improved versions of the monitor systems.
2. Extensions to system programs such as the compilers, assemblers and loaders.
3. Many special device handlers.
4. New compilers and other language processors.
5. Routines to support special requirements such as a laboratory environment.
6. Adaption of many existing programs to the 12-Bit environment.

Correspondence or submissions to the newsletter should be sent to:

12-Bit Special Interest Group
c/o DECUS Office
One Iron Way - MR2-3/E55
Marlboro, MA 01752

If you wish to become a member of the 12-Bit SIG, please fill out the form below.

Are you a DECUS Member? _____ DECUS Membership Number _____

NAME _____

AFFILIATION _____

CITY _____ STATE _____ ZIP CODE _____

TELEPHONE NUMBER _____

SOFTWARE PROBLEMS OR ENHANCEMENTS

Questions, problems, and enhancements to DIGITAL software should be reported on a Software Performance Report (SPR) form and mailed to the SPR Center at one of the following DIGITAL Offices: (SPR forms are available from the SPR Center).

AREAS COVERED	SPR CENTER	AREAS COVERED	SPR CENTER
United States, remainder of Far East, Middle East, Africa Latin America	Administrative Services Group, SWS P.O.Box F Maynard MA 01754	Italy	Digital Equipment SPA Viale Fulvio Testi 117 20092 Cinisillo Balsamo Italy
Canada	Digital Equipment Canada P.O.Box 11500 Kanata Canada K2H 8K8 Ontario	Japan	Digital Equipment Corp., INTL 3rd Floor Kowa Building 8-7 Sanban Cho Chiyoda Ku Tokyo 102 Japan
United Kingdom	Digital Equipment Corp., LTD Fountain House Butts Centre RG1 7QN Reading England	New Zealand	Digital Equipment Corp., LTD Challenge House 3 Wolfe Street P.O.Box 2471 Auckland New Zealand 10010
Australia-Melbourne	Digital Equipment Aust. Pty., LTD 60 Park Street South Melbourne Victoria Australia 3205	Belgium, Holland	Digital Equipment BV Kaaipark 38 3563 AV Utrecht Netherlands
Australia-Sydney	Digital Equipment Aust. Pty., LTD 123 125 Willoughby Road P.O.Box 491 Crows Nest NSW Australia 2065	Denmark, Finland, Norway, Sweden	Digital Equipment Corp., AB Englundavaegen 73 TR 171 41 Solna Sweden
Brazil	Digital Equipment Comercio Ind Rua Batatais 429 Esq AL Campin 01423 Jardim Paulista Sao Paulo 0100 Brazil	Switzerland, Spain, Greece, Romania, Portugal, Bulgaria Yugoslavia	Digital Equipment Corp., SA 20 Quai Ernest Ansermet Boite Postale 23 CH 1211 Geneva Switzerland
Caribbean	De Latin America P.O.Box 11038 Fernando Juncos Sta. Santurce PR 00910	Austria, Poland Hungary, Rumania East Germany, West Germany, Russia, Czechslovakia	Digital Equipment Corp., GMBH Wallsteinplatz 2 8000 Munchen 40 Germany 8000
France	Digital Equipment Corp., LTD. Centre Silic Cidex L225 18 Rue Saarinen 94533 Rungis France	Israel	DECSYS Computers, LTD 7 Habakuk Street Il-Tel Aviv 63505 Israel

DIGITAL EQUIPMENT CORPORATION, Corporate Headquarters: Maynard, Massachusetts 01754, Telephone: (617)897-5111—SALES AND SERVICE OFFICES: UNITED STATES—ALABAMA, Huntsville • ARIZONA, Phoenix and Tucson • CALIFORNIA, El Segundo, Los Angeles, Oakland, Ridgecrest, San Diego, San Francisco (Mountain View), Santa Ana, Santa Clara, Stanford, Sunnyvale and Woodland Hills • COLORADO, Englewood • CONNECTICUT, Fairfield and Meriden • DISTRICT OF COLUMBIA, Washington (Lanham, MD) • FLORIDA, Ft. Lauderdale and Orlando • GEORGIA, Atlanta • HAWAII, Honolulu • ILLINOIS, Chicago (Rolling Meadows) • INDIANA, Indianapolis • IOWA, Bettendorf • KENTUCKY, Louisville • LOUISIANA, New Orleans (Metairie) • MARYLAND, Odenton • MASSACHUSETTS, Marlborough, Waltham and Westfield • MICHIGAN, Detroit (Farmington Hills) • MINNESOTA, Minneapolis • MISSOURI, Kansas City (Independence) and St. Louis • NEW HAMPSHIRE, Manchester • NEW JERSEY, Cherry Hill, Fairfield, Metuchen and Princeton • NEW MEXICO, Albuquerque • NEW YORK, Albany, Buffalo (Cheektowaga), Long Island (Huntington Station), Manhattan, Rochester and Syracuse • NORTH CAROLINA, Durham/Chapel Hill • OHIO, Cleveland (Euclid), Columbus and Dayton • OKLAHOMA, Tulsa • OREGON, Eugene and Portland • PENNSYLVANIA, Allentown, Philadelphia (Bluebell) and Pittsburgh • SOUTH CAROLINA, Columbia • TENNESSEE, Knoxville and Nashville • TEXAS, Austin, Dallas and Houston • UTAH, Salt Lake City • VIRGINIA, Richmond • WASHINGTON, Bellevue • WISCONSIN, Milwaukee (Brookfield) • INTERNATIONAL—ARGENTINA, Buenos Aires • AUSTRALIA, Adelaide, Brisbane, Canberra, Melbourne, Perth and Sydney • AUSTRIA, Vienna • BELGIUM, Brussels • BOLIVIA, La Paz • BRAZIL, Rio de Janeiro and Sao Paulo • CANADA, Calgary, Edmonton, Halifax, London, Montreal, Ottawa, Toronto, Vancouver and Winnipeg • CHILE, Santiago • DENMARK, Copenhagen • FINLAND, Helsinki • FRANCE, Lyon, Grenoble and Paris • GERMAN FEDERAL REPUBLIC, Cologne, Frankfurt, Hamburg, Hannover, Munich, Nuremburg, Stuttgart and West Berlin • HONG KONG • INDIA, Bombay • INDONESIA, Djakarta • IRELAND, Dublin • ITALY, Milan, Rome and Turin • IRAN, Tehran • JAPAN, Osaka and Tokyo • MALAYSIA, Kuala Lumpur • MEXICO, Mexico City • NETHERLANDS, Utrecht • NEW ZEALAND, Auckland and Christchurch • NORWAY, Oslo • PUERTO RICO, Santurce • SINGAPORE • SPAIN, Madrid • SWEDEN, Gothenburg and Stockholm • SWITZERLAND, Geneva and Zurich • UNITED KINGDOM, Birmingham, Bristol, Epsom, Edinburgh, Leeds, Leicester, London, Manchester and Reading • VENEZUELA, Caracas •