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PDP-8 DIGITAL SOFTWARE NEWS

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The PDP-8 Digital Software News (a bi-monthly publication) complements Software Reviews for COS-310, OS/8, and OS/78. New and revised Software Product Descriptions, programming notes, software problems and solutions, and documentation corrections are published here. Much of the material is developed from Software Performance Report (SPR) answers significant to the general audience and is printed here to supplement the maintenance notebook (established by the Software Review).

PRODUCTS SUPPORTED in the PDP-8 DIGITAL SOFTWARE NEWS

COS-310 V8	OS/8 Extension Kit V3D	OS/8 MACREL/LINKER V2A
COS-310/2780 RDCP V6.05, V7	OS/8 FORTRAN IV V3D	OS/78 V2, V3
OS/8 V3D		RTS-8 V3.0
OS/8 V3D Device Extensions		

DISTRIBUTION

The Digital Software News is directed to one software contact for each software product. No Mailing will be made to addresses without a software contact name. Address change requests should be sent to the nearest DIGITAL field office. Include the new address and mailing label from the most recently received publication.

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Eleanor F. Hunter, Editor
Ann Owens, Associate Editor

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SPR USER LETTER

Submitted by Sheila Hatchell, 8/11 Administration

The Dispatch SPR User Letter has been revised to reflect the new SPR form which is now available. These forms can be obtained from your local DIGITAL Office or SPR Center, or by requesting them from SPR Administration.

How to Make the Best Use of the SPR Form

What We Can Do for You:

1. Blank SPR forms are available upon request in the desired quantities through the SPR Administration (P.O. Box F) and your local office/SPR Center.
2. Copies of the SPR acknowledgement and answer are sent to the appropriate DIGITAL Office/SPR Center for their information.
3. STATUS FOR SUBMITTED SPRs IS PROVIDED UPON REQUEST.
4. SPRs marked PROBLEM/ERROR will have a response for DIGITAL SUPPORTED products. These SPRs should refer to suspected deficiencies in the software.
5. SPRs marked SUGGESTION are forwarded to the pertinent software group for information purposes, and are responded to at their discretion.

What You Can Do for Us:

1. Fill out the form completely either by typing or printing clearly. **PLEASE INCLUDE YOUR SOFTWARE SERVICE CUSTOMER NUMBER IN THE ADDRESS BOX.**
2. Limit only one problem per SPR form. Several problems on an SPR can lengthen the turnaround time.
3. **WHENEVER POSSIBLE, SUBMIT AN SPR WITH ATTACHMENTS, SUCH AS MACHINE READABLE DATA, DETAILED INSTRUCTIONS ON HOW TO REPRODUCE THE PROBLEM, PROGRAM AND/OR DATA FILES, LISTINGS, AND CONSOLE LOG.**
4. It would be helpful to all concerned if problems with patches are reported as soon as possible.
5. For security SPRs, it is imperative that the DO NOT PUBLISH box be marked.
6. It would be helpful if tapes submitted with SPRs are labeled (track and density), and have a directory attached.
7. Complete the questionnaire that is supplied with each SPR answer. Your feedback is essential in monitoring the quality of our responses.
8. SPRs should not be used for problems concerning software policy, software distribution, or hardware. The local office should be contacted in these cases.

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GENERAL INFORMATION

OS/8 V3D AND LAYERED SOFTWARE (GH)

Effective 28-APR-80, the following products are no longer offered with Digital support.

OS/8 V3D	QF015
OS/8 V3D Extension Kit	QF026
OS/8 V3D FORTRAN IV	QF008
OS/8 V3D Device Extensions	QF006

We will offer these four kits as unsupported with license-only (DZ) options until Q1 FY81. At that time, we will remove all mention of these products (except DZ licenses) from the DEC Standard Price List and move the SPDs to the Products No Longer Marketed Index. The SDC will retain these products in the archives only.

The unsupported prices for the OS/8 kits will be the same as the supported prices.

The OS/8 V3D Combined Kit (QF024), introduced in March, 1979, includes the software for all four of these OS/8 kits, and it remains a supported product.

PDP-8 Digital Software News, April/May 1980

OS/8 V3D
EDIT

Seq 21.17.5 R

1 of 1

EDIT RESTRICTION (BS)

This article is to reiterate a little publicized but old restriction on the use of the EDIT program.

The restriction is that you cannot use the RUBOUT key to delete characters following a question mark. You must delete the entire line and insert the proper text.

PDP-8 Digital Software News, April/May 1980

MACREL/LINKER V2A
KREF VOA

Seq 41.3.1 M
1 of 1

PATCH TO CORRECT PRINTING OF NUMERIC LOCAL SYMBOLS (DBB)

Problem: Numeric local symbols are incorrectly output in radix-8 instead of radix-10 format.

Diagnosis: A pointer to a decimal print routine is in error and does not work properly when a correct .KF file including numeric local symbols is given as input to KREF.

Patch:

```
.GET SYS KREF
.ODT
2775/2000 7767
1326/0301 0302
CTRL/C
.SAVE SYS KREF
```

This patch is not sufficient to correct the problem. You must also insert the patch to MACREL (see 41.4.2) since MACREL does not generate correct .KF files that include numeric local symbols. This patch updates KREF to Version 0B.

PDP-8 Digital Software News, April/May 1980

MACREL/LINKER V2A
MACREL V2E

Seq 41.4.4 M

1 of 1

PATCH TO CORRECT MACRO SUBSTRING PROBLEM (DBB)

Problem: In some cases MACREL substrings an argument in a MACRO call when no substrings are specified in the MACRO definition code.

Diagnosis: MACREL does not properly initialize substring information when invoking a MACRO call.

Patch: .R FUTIL
FILE MACREL.SV
SET MODE SAVE
10225/6201 5626;536
10536/~~xxxx~~ 3746;3745;6201;2744;5743;227;227;1324;1323
13136/0305 306
WRITE
EXIT

This patch corrects the problem and upgrades MACREL to Version 2F.

PDP-8 Digital Software News, April/May 1980

MACREL/LINKER V2A
MACREL V2F

Seq 41.4.5 M
1 of 1

PATCH TO CORRECT PRINTING OF NUMERIC LOCAL SYMBOLS (DBB)

Problem: MACREL produces an invalid .KF file for KREF.

Diagnosis: The radix bit in numeric local symbol entries in the .KF file is set to 0 (radix 8) instead of 1 (radix 10).

Patch:

```
.R FUTIL  
FILE MACREL.SV  
SET MODE SAVE  
4370/0044 4044  
13136/0306 0307  
WRITE  
EXIT
```

This patch is not sufficient to correct the problem. You must also insert the patch to KREF (see 41.3.1) since the code to handle radix 10 entries in KREF also contains an error. This patch upgrades MACREL to Version 2G.

PDP-8 Digital Software News, April/May 1980

OS/78 V3.0
EDIT

Seq 72.16.1 R
1 of 1

EDIT RESTRICTION (BS)

This article is to reiterate a little publicized but old restriction on the use of the EDIT program.

The restriction is that you cannot use the RUBOUT key to delete characters following a question mark. You must delete the entire line and insert the proper text.

PDP-8 Digital Software News, April/May 1980

COS-310 V8.00
(Patch 10)

Seq 81.1.10 M

1 of 2

LINCHG Program (CW)

PROBLEM:

RUN LINCHG/n does not generate a form feed.

SOLUTION:

The following patch to LINCHG corrects this problem. The Line Change Program (LINCHG) was intended to be used in a batch stream as follows:

```
.RUN PROG1  
.RUN LINCHG/n  
.PLEASE CHANGE PAPER NOW  
.RUN PROG2
```

The RUN LINCHG/n command will generate a form feed, the paper can then be changed, and PROG2 will use the number of lines stated in the LINCHG command.

COS-310 V8.00
(Patch 10)

Seq 81.1.10 M

2 of 2

1. Create a PATCH command file (PT10) using the following editor commands:

```
.ER  
.LN  
.0100 LINCHG  
.0110 1  
.0120 167  
.0130 0214  
.0140 END  
.0150 0200  
.0160 END  
.0170 /X  
.0180 <ctrl/z>  
.WR PT10
```

2. Check the PT10 command file by running PATCH without the /C option. PATCH simulates the patching operation but does not change the file on the system device. When run without the /C option, PATCH displays CHECKSUM CORRECT--USE OPTION C TO UPDATE rather than NEW BLOCK PATCHED OK. To check the command file enter the following:

```
.R PATCH,PT10
```

PATCH will respond by displaying the PATCH dialogue and returning to the Monitor. If PATCH does not return to the Monitor, check the PT10 command file to ensure that it was entered correctly.

3. Install the patch by entering the following command:

```
.R PATCH,PT10/C
```

PATCH will respond by displaying the PATCH dialogue and returning to the Monitor.

PDP-8 Digital Software News, April/May 1980

COS-310 V8.01
(Patch 6)

Seq 81.2.7 M

1 of 2

LINCHG Program (CW)

PROBLEM:

RUN LINCHG/n does not generate a form feed.

SOLUTION:

The following patch to LINCHG corrects this problem. The Line Change Program (LINCHG) was intended to be used in a batch stream as follows:

```
.RUN PROG1  
.RUN LINCHG/n  
.PLEASE CHANGE PAPER NOW  
.RUN PROG2
```

The RUN LINCHG/n command will generate a form feed, the paper can then be changed, and PROG2 will use the number of lines stated in the LINCHG command.

COS-310 V8.01
(Patch 6)

Seq 81.2.7 M

2 of 2

1. Create a PATCH command file (PT06) using the following editor commands:

```
.ER  
.LN  
.0100 LINCHG  
.0110 1  
.0120 167  
.0130 0214  
.0140 END  
.0150 0200  
.0160 END  
.0170 /X  
.0180 <ctrl/z>  
.WR PT06
```

2. Check the PT06 command file by running PATCH without the /C option. PATCH simulates the patching operation but does not change the file on the system device. When run without the /C option, PATCH displays CHECKSUM CORRECT--USE OPTION C TO UPDATE rather than NEW BLOCK PATCHED OK. To check the command file enter the following:

```
.R PATCH,PT06
```

PATCH will respond by displaying the PATCH dialogue and returning to the Monitor. If PATCH does not return to the Monitor, check the PT06 command file to ensure that it was entered correctly.

3. Install the patch by entering the following command:

```
.R PATCH,PT06/C
```

PATCH will respond by displaying the PATCH dialogue and returning to the Monitor.

RDCP DATA RECEPTION ERRORS (SS)

PROBLEM: Data may be incorrectly received by RDCP under certain timing conditions. The problem manifests itself through repeated data and/or missing data in the received file.

SOLUTION: The following patch to RDCP corrects this problem as well as changing the version number of RDCP to V8.01A.

1. Create a PATCH command file (RD01) using the following editor commands:

```
.ER
.LN
.100 RDCP
.110 16
.120 45
.130 6002
.140 46
.150 1657
.160 47
.170 7540
.180 50
.190 5661
.200 51
.210 7501
.220 52
.230 3657
.240 53
.250 7501
.260 54
.270 3660
.280 55
.290 5662
.300 56
.310 5643
.320 57
.330 5671
.340 60
.350 5734
.360 61
.370 2746
.380 62
.390 2750
.400 346
.410 7501
.420 347
.430 3753
.440 350
.450 4754
.460 351
.470 6001
.480 352
.490 5755
.500 353
.510 5725
.520 354
.530 5200
.540 355
.550 2456
.560 END
.570 7535
.580 62
```



```
.590 205  
.600 4200  
.610 END  
.620 4200  
.630 END  
.640 /x  
.650 <ctrl/z>  
.WR RD01
```

2. Check the RD01 command file by running PATCH without the /C option. PATCH simulates the patching operation but does not change the file on the system device. When run without the /C option, PATCH displays CHECKSUM CORRECT--USE OPTION C TO UPDATE rather than NEW BLOCK PATCHED OK. To check the command file enter the following:

```
.R PATCH,RD01
```

PATCH will respond by displaying the PATCH dialogue and returning to the Monitor. If PATCH does not return to the Monitor, check the RD01 command file to insure that it was entered correctly.

3. Install the patch by entering the following command:

```
.R PATCH,RD01/C
```

PATCH will respond by displaying the PATCH dialogue and returning to the Monitor.

PDP-8 DIGITAL SOFTWARE NEWS
 CUMULATIVE INDEX
 APRIL/MAY 1980

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!

Unassigned articles are indicated: UNASSIGNED.

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

M = Mandatory Patch. These patches correct errors in the software product. All users are required to apply these patches to maintain consistent "user level" unless the accompanying article specifies otherwise.

F = Optional Feature Patch. These patches extend or configure functionality into the product. These functions will be treated as a supported part of the product for the duration of the current release and will be incorporated with any future release, unless otherwise stated.

R = Restriction. These articles discuss areas that will not be patched in the current release because they require major modifications orr because of the product. Restrictions, except those described as permanent, are reviewed and modified when possible as part of the normal release cycle.

N = Note. These articles provide explanatory information that supplements the manual set and provide more detailed information about a program or package. They also provide procedural information to make it easier to use a program or package.

<u>Component</u>	<u>Sequence</u>	<u>Mon/Yr</u>
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FORTRAN IV PLOTTER ROUTINE, PSCALE, HANGS IN ENDLESS LOOP	01	Apr 77
PLOTTER OUTPUT PROBLEM	02	Aug 77

OS/8 V3D

*Articles dated October 1977 appeared in OS/8 V3D Software Review, October 1977.

<u>DOCUMENTATION</u>		
FAULTY DESCRIPTION FOR ERROR PERFORMANCE	01 N*	Oct 77
<u>HANDLER</u>		
CTRL/Z AND NULL	01 O*	Oct 77
<u>NOTES/PROGRAMMING HINTS</u>		
DATE ALGORITHM	01 N	Dec 77
<u>UTILITIES</u>		
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

OS/8 EXTENSION KIT V3D

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RESTRICTION ON EXTENDED RANGE FOR-NEXT LOOPS	01 R	Oct 77
<u>BATCH</u>		
CANNOT MOVE BATCH INPUT FILE	01 R	Oct 77
RESTARTING BATCH	02 N	Oct 77
RUNNING BATCH IN 32K	03 O	Oct 77
<u>MSBAT</u>		
MARK SENSE BATCH FORTRAN II READS THROUGH DOLLAR SIGNS	01 O	Oct 77
<u>GENIOX</u>		
GENIOX QUESTIONS	01 N	Oct 77

<u>Component</u>	<u>Sequence</u>	<u>Mon/Yr</u>
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COMPILER GENERATES WRONG LENGTH	04 O	Oct 77
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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
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USING THE PDP-8/A PARALLEL PORT FOR A LINEPRINTER	21.1.1 N	Mar 78
SOFTWARE REVIEW CORRECTION	21.1.2 N	Dec/Jan 80
PROBLEM WHEN YOU DESTROY BATCH	21.1.3 N	Aug/Sep 78
COMPONENTS, SUBCOMPONENTS, AND MODULES FOR OS/8 V3D COMBINED KIT	21.1.4 N	Dec/Jan 80
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EDIT Q COMMAND PATCH	21.17.3 M	Jun/Jul 79
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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
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SCOPE RUBOUTS FAIL IN SET	21.26.2 M	May 78
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<u>Component</u>	<u>Sequence</u>	<u>Mon/Yr</u>
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ERROR IN .MCALL MACRO EXAMPLE	41.1.4 N	Feb/Mar 80
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<u>Component</u>	<u>Sequence</u>	<u>Mon/Yr</u>
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<u>FORTRAN</u>		
<u>NOTES & DOCUMENTATION</u>		
MISSING PATCHES BETWEEN V2.0 AND V3.0 FOR OS/78	72.90.1 M	Feb/Mar 80
COS-310 V7.00		
COMP		
MAXIMUM SIZE OF DATA DIVISION	70.0 N	Dec/Jan 80
COS-310 V8.00		
COPYING FILES USING SYSGEN/B	81.1.1 M	Dec/Jan 80
HALF/BLOCK TRANSFERS USING RX HANDLER	81.1.2 M	Dec/Jan 80
USING COMMAND FILES WITH PIP	81.1.3 M	Dec/Jan 80
INCORRECT PARSING OF MENU COMMAND FILE	81.1.4 M	Dec/Jan 80
MENU BUFFER PROBLEM	81.1.5 M	Dec/Jan 80
ACCESSING RX01 DRIVES 2 AND 3	81.1.6 M	Dec/Jan 80
DATE COMMAND - ACCEPTS INVALID DAY	81.1.7 M	Dec/Jan 80
TIMING PROBLEMS WITH RX01 HANDLER	81.1.8 M	Feb/Mar 80
FILEX CONVERSION PROBLEM	81.1.9 M	Feb/Mar 80
LINCHG PROGRAM	81.1.10 M	Apr/May 80
COS-310 V8.01A		
MENU BUFFER PROBLEM	81.2.1 M	Dec/Jan 80
ACCESSING RX01 DRIVES 2 AND 3	81.2.2 M	Dec/Jan 80
DATE COMMAND - ACCEPTS INVALID DAY	81.2.3 M	Dec/Jan 80
TIMING PROBLEMS WITH RX01 HANDLER	81.2.4 M	Feb/Mar 80
FILEX CONVERSION PROBLEM	81.2.5 M	Feb/Mar 80
XMITs INTERSPERSED WITH DIRECT ACCESS OPERATIONS	81.2.6 M	Feb/Mar 80
LINCHG PROGRAM	81.2.7 M	Apr/May 80
COS-310 2780/3780 RDCP V8.01		
RDCP DATA RECEPTION ERRORS	90.0.1 M	Apr/May 80



DIGITAL EQUIPMENT COMPUTER USERS SOCIETY

INTRODUCTION

DECUS, the Digital Equipment Computer Users Society, was established in March of 1961 to advance the effective use of DIGITAL computers. It is a not-for-profit users group supported in part by Digital Equipment Corporation.

OBJECTIVES

The objectives of the Society are to advance the effective utilization of computers, computer peripheral equipment, and software manufactured and marketed by Digital Equipment Corporation, by promoting the interchange of information concerning their uses; advance the art of computation through mutual education and exchange of ideas and information; establish standards and provide channels to facilitate the exchange of computer programs among DECUS members; provide feedback to the computer industry on equipment and software needs; and to reduce the duplication of development efforts.

ORGANIZATION

The Digital Equipment Computer Users Society is a federation of chapters, whose membership is determined by geographic location. The membership is organized to meet the specific needs of members in its area such as Symposia and Special User Group activities. The DECUS chapters are:

- *AUSTRALIAN CHAPTER (Australia, Indonesia, Malaysia, New Zealand, PNG, Singapore,)*
- *EUROPEAN CHAPTER (Europe, Middle East, North Africa, Russia)*
- *CANADIAN CHAPTER (Canada)*
- *U.S. CHAPTER (U.S. and All Others)*

ACTIVITIES

1. SYMPOSIA

Symposia are sponsored throughout the year by each of the DECUS Chapters and Regional/National User Groups. These meetings provide an opportunity for users of DIGITAL computers to meet with other users and with DIGITAL management, engineers, and customer service representatives. They provide a forum for users to exchange information on technique and approaches to issues of common interest and to provide feedback to DIGITAL on existing and future products and services. Sessions at the symposia include user-driven workshops, tutorials, product panels, as well as application/system-specific presentations.

The technical papers and presentations from each symposium are published as DECUS Proceedings.

2. SPECIAL USER GROUPS

DECUS encourages subgrouping of users with common interests and/or geographical proximity.

Special Interest Groups (SIGs) promote the interchange of specialized information for application areas, subject areas (such as languages), or specific operating systems. A group of users must petition the Chapter Executive Board for recognition as a Special Interest Group. The group must have a chairman, a DIGITAL representative, and its organization must meet the guidelines of the Chapter Executive Board.

Geographic subgroupings are formed to service the DECUS members within a specific area although they may also be based on interests as in SIGs. There are four types of geographic subgroupings:

1. *LUGs* — *Local User Groups*
2. *NUGs* — *National User Groups*
3. *RUGs* — *Regional User Groups*
4. *SLUGs* — *Student Local User Groups*

3. STANDARDS

DECUS promotes user activity in reviewing DIGITAL standards. Users are given the opportunity to comment on DIGITAL standards prior to their finalization.

4. PROGRAM LIBRARY

One of the major activities of the users group is the DECUS Program Library. The Library contains programs written and submitted by users and is maintained and operated separate from the Digital Software Distribution Center. A wide range of software is available, including languages, editors, numerical functions, utilities, display routines, and various other types of application software.

MEMBERSHIP

Membership in DECUS is voluntary and is not subject to membership fee. Members are invited to take an active interest in the Society by contributing to the Program Library, to newsletters, and by participating in its Special User Groups and Symposia. There are two types of membership: Installation Membership and Association Membership.

INSTALLATION MEMBERSHIP

An organization, institution, or individual that has purchased, leased or has on order a computer manufactured by Digital Equipment Corporation is eligible for Installation Membership in DECUS.

An Installation should appoint a person immediately concerned with the use of the computer to act as delegate to the Society. A delegate receives all official communications and has a vote on DECUS policies and elections. An organization or company is eligible for as many voting delegates as it has DIGITAL computers. Each delegate must file an application for Installation Membership.

ASSOCIATE MEMBERSHIP

Any person who is not an appointed Installation Delegate, who has a bona fide interest in DECUS is eligible for Associate Membership.

Membership status is acquired by submitting the enclosed application to the appropriate Chapter Executive Secretary for approval by the Chapter Executive Board.

To obtain a membership form for DECUS, please return this form to the appropriate Chapter office listed below.

NAME: _____
(First) (Last/Family Name)

COMPANY: (INSTALLATION): _____

ADDRESS 1: _____

2: _____

3: _____

4: _____

(City Town, State Province, and Zip Postal Code)

COUNTRY: _____

TELEPHONE: _____ TELEX _____

I obtained this form from _____

DECUS OFFICES

DECUS Australia P.O. Box 384 Chatswood NSW 2067 Australia	DECUS Canada P.O. Box 11500 Ottawa, Ontario K2H 8K8 Canada	DECUS Europe P.O. Box 510 12, avenue des Morgines CH-1213 Petit-Lancy 1/GE Switzerland	DECUS U.S. and Office of the Executive Director One Iron Way Marlboro, Massachusetts 01752 USA
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DECEMBER 1979

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).*

<u>Areas Covered</u>	<u>SPR Center</u>	<u>Areas Covered</u>	<u>SPR Center</u>
United States; remainder of Far East, Middle East, Africa Latin America	Administrative Services Group, SWS P.O. Box F Maynard, Ma 01754	Japan	Digital Equipment Corp. INTL 3rd Floor Kowa Bldg. 8-7 Sanban Cho Chiyoda Ku Tokyo 102 Japan
Canada	Digital Equipment Canada P.O. Box 11500 Ottawa, Ontario Canada K2H 8K8	New Zealand	Digital Equipment N.Z. LTD P.O. Box 17093 Greenlane, Auckland 5, New Zealand
United Kingdom, Bahrain, Egypt, Iraq, Jordan, Kuwait, Lebanon, Libya, Qatar, Oman, Saudi Arabia, Syria, United Arab Emirates, Yemen, Arab Republic.	Digital Equipment Corp. LTD Fountain House Butts Centre GB - Reading RG17QN England	Belgium, Holland, Luxemburg	Digital Equipment B.V. KAAP Horndreef 38 NL - Utrecht/Overvecht Holland
Australia-Melbourne	Digital Equipment Aust. PTY. LTD 60 Park Street So. Melbourne Victoria Australia 3205	Sweden	Digital Equipment Corp. AB Englundavägen 7 S-171 24 Solna, Sweden
Australia-Sydney	Digital Equipment Aust. PTY. LTD 123 125 Willoughby Rd. P. O. Box 491 Crows Nest NSW Australia 2065	Denmark	Digital Equipment Corp. APS Kristineberg 3 DK-2100 Copenhagen Ø Denmark
Brazil	Digital Equipment Comercio Ind. Rua Batatais 429 Esq AL Campin 01423 Jardim Paulista Sao Paulo 0100 Brazil	Finland	Digital Equipment Corp. OY PL 16 SF - 02201 ESPOO 20 Finland
Caribbean	De Latin America P. O. Box 11038 Fernando Juncos Sta. Santurce PR 00910	Norway	Digital Equipment Corp. A/S Pottenmakerveien 8 N - Oslo 5 Norway
France	Digital Equipment France 18, rue Saarinen France Silic 225 F - 94528 Rungis - Cedex France	Austria, East Germany, West Germany, Poland, Hungary, Rumania, Czechoslovakia, Russia, Bulgaria	Digital Equipment Corp. GMBH Wallsteinplatz 2 D - 8 Munich 40 West Germany
Italy	Digital Equipment S.P.A. Viale Fulvio Testi 117 I-20092 Cinisillo Balsamo Milan, Italy	Israël	DECSYS Computers LTD. 4, Yirmiyahou Str. P.O. Box 6359 IL - Tel-Aviv 63505 Israël

Areas Covered

Greece, Portugal,
Spain, Switzerland,
Yugoslavia & Sina
(Morocco, Algeria,
Tunisia, Cyprus,
Turkey, Malta)

SPR Center

Digital Equipment Corp. SA
9, route des Jeunes
1211 Geneva 26
Switzerland

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 •