

The Software Dispatch

RSX

**RSX-11M/S
RSX-11M-PLUS
Micro/RSX
December 1986
AD-FD06A-15**



digital
software

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RSX SOFTWARE DISPATCH

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The RSX Software Dispatch complements the Software Dispatch Reviews for RSX-11M/S, RSX-11M-PLUS and Micro/RSX. 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 Dispatch Review).

PRODUCTS SUPPORTED in the RSX SOFTWARE DISPATCH

BASIC-PLUS-2	FMS-11/RSX	RSX-11/3271 Protocol Emulator
COBOL, PDP-11	FORTRAN IV/VAX to RSX	RSX-11M 2780/3780 Emulator
COBOL-81/RSX	FORTRAN-77/RSX, PDP-11	RSX-11M/FORTRAN Enhancement
CORAL 66, PDP-11	FORTRAN-77 DEBUG, PDP-11	Pkg. for MINC
DATATRIEVE-11	LSP-11	RSX-11M/FORTRAN Real-Time Pkg.
DBMS-11	MUX200/RSX-IAS	for MINC
DECnet-11M	PASCAL/RSX, PDP-11	RSX-11M/SNA Protocol Emulator
DECnet-11M-PLUS	RGL/11	RTEM-11
DECnet-11S	RPG II, PDP-11	SORT-11
DECnet/SNA Gateway Products	RSX MDE/T-11	SSP-11
DPM	RSX-11M	UN1004/RSX
DPM-PLUS Software	RSX-11S	
DT07-11M	RSX-11M-PLUS	

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Barbara Scollan, Editor

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PRODUCT AVAILABILITY DATES - RSX

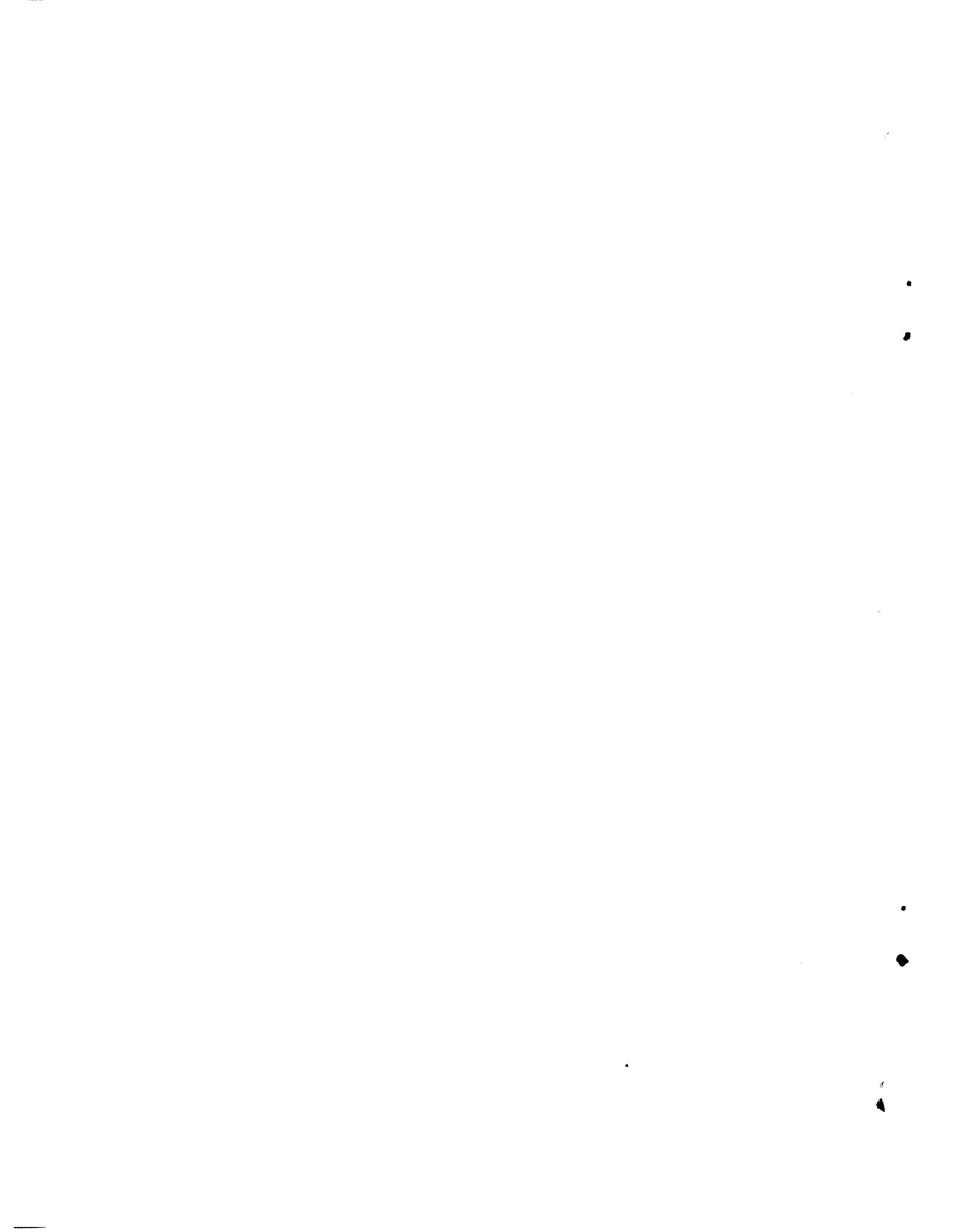
DECEMBER 1986

The following list contains date and version of the latest release of supported software products. Customers who are in warranty or have a software product service agreement during the month the product became available, are eligible to receive the new release. Eligible customers who have not received the new release should contact their local DIGITAL office.

<u>PRODUCT</u>	<u>VERSION</u>	<u>AVAILABLE</u>
BASIC-PLUS-2 for RSX-11M and RSX-11M-PLUS,PDP-11	2.3	JUN 85
COBOL,PDP-11	4.4	MAY 82
COBOL-81/RSX	2.4	MAY 86
DATATRIEVE-11	3.1	SEP 84
DBMS-11	2.1	JAN 83
DECdx/RSX	1.0	NOV 84
DECmail-11 for RSX-11M-PLUS and Micro/RSX	2.0	AUG 84
DECnet Router Server	1.1 SPD ONLY	OCT 85
DECnet-11M	4.2	FEB 86
DECnet-11M-PLUS	3.0	FEB 86
DECnet-11S	4.2	FEB 86
DECnet/SNA Gateway Products	1.3	JAN 86
DPM	4.1	AUG 82
DPM-PLUS SOFTWARE	1.1	AUG 82
FORTTRAN IV/RSX	2.6	JUN 83
PDP-11 SYMBOLIC DEBUGGER/RSX (formerly FORTTRAN-77 DEBUG/RSX, PDP-11)	2.0	APR 86
FORTTRAN-77/RSX,PDP-11	5.0 SPD ONLY	JAN 86
LSP-11	1.2 DOC ONLY	JAN 86
MicroPower/Pascal-RSX	2.2	JUN 86
PASCAL/RSX,PDP-11	1.2	JAN 86
RGL/11	1.1 DOC ONLY	JAN 86
RPG II,PDP-11	8.8	JUL 83
RSX MDE/T-11	1.0	DEC 82
RSX-11 2780/3780 Emulator	4.1	JUL 82
RSX-11 PSI/M	2.1	FEB 86
RSX-11 PSI/M-PLUS	2.1	FEB 86
RSX-11/3271 Protocol Emulator	3.1	MAR 86
RSX-11M	4.2	JAN 86
RSX-11M V4.2 UPDATE	C	SEP 86
RSX-11M/FORTTRAN Enhancement Pkg. for MINC	1.3 RETIRED	MAR 86
RSX-11M/FORTTRAN Real-Time Pkg. for MINC	1.2 RETIRED	MAR 86

PRODUCT AVAILABILITY DATES - RSX (cont'd)

<u>PRODUCT</u>	<u>VERSION</u>	<u>AVAILABLE</u>
RSX-11M-PLUS	3.0	JAN 86
RSX-11M-PLUS DECgraph-11	1.2 RETIRED	FEB 86
RSX-11M-PLUS DECtype	3.1	JUN 86
RSX-11M-PLUS DIBOL	1.2	APR 86
RSX-11M-PLUS V3.0 UPDATE	C	OCT 86
RSX-11S	4.2	JAN 86
RSX-11S V4.2 UPDATE	C	SEP 86
RTEM-11	2.2	APR 86
SORT/MERGE ,PDP-11	3.0	JUN 84
SPM-11M	2.1 RETIRED	APR 86
SPM-11M-PLUS	2.1 RETIRED	APR 86
SSP-11	1.3 DOC ONLY	JAN 86



RSX-11M V4.2
MCR
ICM

Seq. No. 2.2.3.13 M

1 of 1

.ENABLE SUBS, QUIET IGNORES COMMAND LINE FOLLOWING "SUBS" (SPR 11-M91560 RDH)

PROBLEM
STATEMENT:

The Indirect command line .ENABLE SUBS, QUIET does not parse the second parameter. The QUIET is totally ignored.

RESPONSE:

In parsing a .ENABLE or .DISABLE command line, Indirect compares the first option with a table of valid strings. Each entry in the table ends with a NUL character which terminates comparison against that entry. That is, if there are characters appended to the option in the command line, they will not cause a mismatch or a syntax error. After finding a match and processing the option, Indirect tests the next nonblank character. If it is a comma, the table search is executed on the following option, etc. If it is any other character, Indirect assumes that the balance of the command line is a comment and ignores it. In the problem statement, the extra S on the end of SUB yields this result.

The workaround to this problem is to ensure that the options are spelled precisely as they are given in the description of the .ENABLE/.DISABLE directives in the documentation. This also applies to the undocumented use of the SUB short form of SUBSTITUTION.

A future update of RSX-11M will include changes which will result in a syntax error if the character following an option is not a comma, semicolon, or exclamation point. The latter two symbols are valid comment delimiters. The SUB short form will be documented in a future release of RSX. Allowing abbreviations of the other options will be considered in a future release.

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RSX-11M V4.2
Drivers
DBDRV

Seq. No. 3.1.1.5 M

1 of 1

SYSGEN ACCEPTS INVALID PHYSICAL UNIT NUMBERS FOR DB: AND DR:
(SPR 11-M91062 LBM)

PROBLEM
STATEMENT:

In a configuration having 10 DB-type (RP04/5/6) disk drives on three controllers, SYSGEN accepted a value of 10(8) for the physical unit number of the first drive on the third controller. This value is used to initialize the offset U.UNIT in the Unit Control Block (UCB) for the drives on that controller, and the driver uses the contents of U.UNIT to set the physical unit number to access in the controller registers. The offset U.UNIT is a byte field, but the controller register RCSR2 provides only three bits to express the unit number. Thus, when the driver attempts to access drive units specified at system generation as having physical unit numbers greater than 7, the results are unsuccessful.

RESPONSE:

The SYSGEN query about device unit configuration expects the response to specify the physical unit number not the logical unit number, although this is not particularly clear from the question itself or the documentation. For both DB: and DR: type disks, the query requests the number of drives and the unit number of the first drive for each controller, and uses this information to derive the unit numbers of the rest of the drives on the controller. There was no provision in the processing of this answer to validate either response. Thus the answers were assumed to be such that all physical unit numbers derived for drives on the controller would be valid. As you have discovered, this was a dangerous assumption.

RSX-11M Version 4.2 Update D will include a correction to SYSGEN to fix this problem and several related problems. The corrections will clarify the reference to unit numbers as meaning physical unit numbers, and will enforce range and limit checks on the number of drives and physical unit number of the first drive.

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RSX-11M V4.2
System Libraries
CSI

Seq. No. 5.2.6.3 M

1 of 3

CSI1 AND CSI2 ARE INCORRECT FOR UPDATE C (SPR 11-M00308X TS)

PROBLEM
STATEMENT:

A correction for Update C in the Command String Interpreter (CSI) modules causes the CSI modules to always return a status of success (that is, Carry Clear) even if an error was encountered during the parsing of the command string. This leads tasks which use these modules to believe that the command string is syntactically correct even when it is not.

RESPONSE:

The following procedure will correct the problem of the CSI modules not returning carry set when an error has occurred.

Procedure for Correcting RSX-11M CSI

The simplest way to correct the CSI problem is to use the original Version 4.2 CSI modules and discard the corrected Update C versions. The problem that was corrected in Update C was an obscure case involving command lines that end exactly at the end of a task. This problem did not affect any Digital-supplied utilities and should not affect most applications.

The following instructions assume that you are using the baseline system to apply corrections and that LBR, EDT, and PIP are installed.

To correct the problem, you must first make a copy of your distribution kit in order to perform a SYSGEN. After copying the distribution kit, issue the following commands to preserve a copy of the original CSI modules:

```
>ASN ddnn:=SY:  
>SET /UIC=[1,1]  
>LBR CSI.OBJ=SYSLIB.OLB/EX:.CSI1:.CSI2  
>SET /UIC=[200,200]
```

Now, apply Update C:

```
>@UPDATE
```

After the Update has been applied, Update will ask if you want to chain to SYSGEN. You must enter "No" to this question. At this point, you must

RSX-11M V4.2
System Libraries
CSI

Seq. No. 5.2.6.3 M

2 of 3

replace the CSI modules in all SYSLIBs and ANSLIBs where they appear on the kits. The following table will help locate all occurrences of SYSLIB.OLB and ANSLIB.OLB for all RSX-11M V4.2 kits:

<u>Volume label</u>	<u>Distribution media type</u>
RSXM38	RSX-11M V4.2 all distribution media
MCRSRC	RSX-11M V4.2 RL02 disk distribution
HLPDCL	RSX-11M V4.2 RL01 disk distribution
CLISRC	RSX-11M V4.2 RK06 disk distribution

In the command lines that follow, the string <disk_to_patch>: is to be replaced with the physical device of the drive where the above listed volumes have been mounted. For example, if you have an RL02 distribution kit, you must replace the CSI modules in [1,1]SYSLIB.OLB and [1,1]ANSLIB.OLB that exist on the volume RSXM38 as well as the volume MCRSRC.

```
>SET /UIC=[1,1]
>LBR <disk_to_patch>:[1,1]SYSLIB.OLB/RP=CSI.OBJ
>LBR <disk_to_patch>:[1,1]ANSLIB.OLB/RP=CSI.OBJ
```

Next, you must edit FCSRS1BLD.BLD in UIC [1,20] to change the extend section value for \$\$\$\$1 from 3374 to 3414 and the extend section value for \$\$\$\$2 from 1552 to 1572 so the lines read EXACTLY as follows:

```
.IF $DFLIB NE "ANSLIB" .DATA EXTSC1=$$$$1:3414
.IF $DFLIB EQ "ANSLIB" .DATA EXTSC2=$$$$2:1572
```

The following EDT session will guide you through the editing process:

```
>SET /UIC=[1,20]
>EDT FCSRS1BLD.BLD
*$$$$1<CR>
    .IF $DFLIB NE "ANSLIB" .DATA EXTSC1=$$$$1:3374
*S/3374/3414/<CR>
    .IF $DFLIB NE "ANSLIB" .DATA EXTSC1=$$$$1:3414
l substitution
*$$$$2<CR>
    .IF $DFLIB EQ "ANSLIB" .DATA EXTSC2=$$$$2:1552
*S/1552/1572/<CR>
    .IF $DFLIB EQ "ANSLIB" .DATA EXTSC2=$$$$2:1572
l substitution
*EXIT
```

RSX-11M V4.2
System Libraries
CSI

Seq. No. 5.2.6.3 M

3 of 3

The corrections are now complete. You may now set your User Identification Code (UIC) to [200,200] and start SYSGEN. SYSGEN will build the correct FCSRES.TSK for the system.

```
>SET /UIC=[200,200]  
>@SYSGEN
```

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RSX-11M V4.2
Misc SYS Tasks
HELP

Seq. No. 5.7.1.2 M

1 of 1

STRING SYNONYMS DO NOT WORK (SPR 11-M00311X JF)

PROBLEM
STATEMENT:

String synonyms as documented in the RSX-11M V4.2 MCR Operations Manual do not work.

RESPONSE:

There is a problem with the way HELP looks for string synonyms. Regular synonyms work correctly, but string synonyms do not. When processing a string synonym, HELP copies the string synonym to an internal buffer, but does not set up the pointer to the buffer correctly. As a result, the entry corresponding to the string synonym is not found in the help file.

This problem will be corrected in RSX-11M Version 4.2 Update E.

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RSX-11M V4.2
Misc SYS Tasks
RCT

Seq. No. 5.7.15.2 M

1 of 1

SYSTEM DISK BECOMES SOFTWARE WRITE LOCKED DURING BBR (SPR 11-M00309X GM)

PROBLEM
STATEMENT:

In RSX-11M Version 4.2 Update B, a DU disk becomes software write protected if a bad block is detected and RCT tries to replace it.

RESPONSE:

This problem occurs when DUDRV encounters a bad block on the disk and attempts to replace it. During the replacement, RCT performs several checks to insure that the replacement was successful. There is an error in one of these checks which causes the disk to become software write protected.

This problem is corrected in RSX-11M Version 4.2 Update C.

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RSX-11M V4.2
 CUMULATIVE INDEX
 DECEMBER 1986

This is a complete listing of all articles for RSX-11M V4.2 and layered products. Missing sequence numbers may pertain to problems unique to other versions of the same product or other major operating systems.

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 modification or because they are not consistent with the design 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.

* = Articles appeared in the RSX Software Dispatch Review, September 1985.

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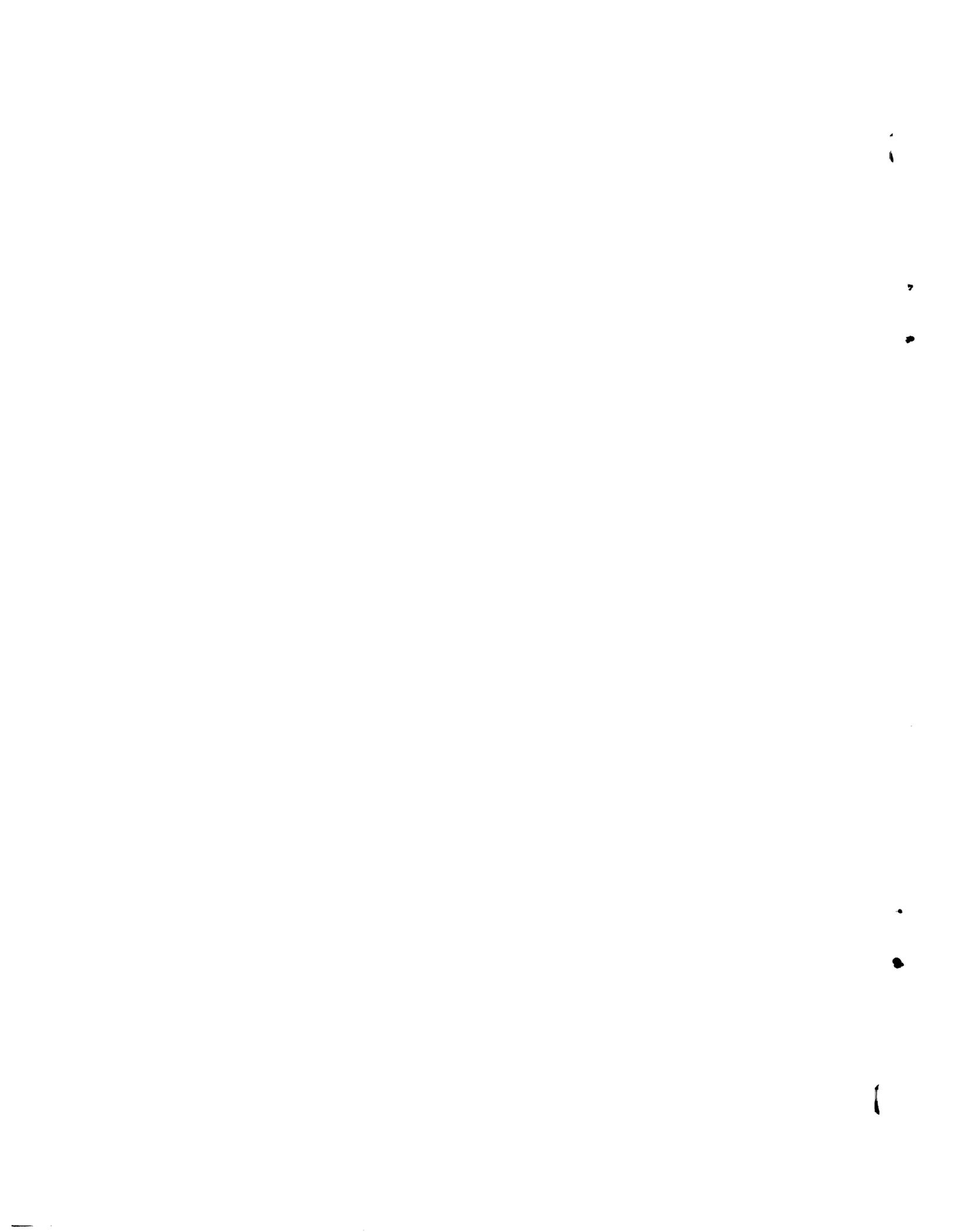
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<u>Error Logging</u>		
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<u>Component</u>	<u>Sequence</u>	<u>Mon/Yr</u>
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MOU MOUNT DOES NOT WAIT FOR RA80/81 TO SPIN DOWN1	5.1.10.1 M	Mar 86
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BRU REPORTS ATTACH FAILED AS SECOND FATAL ERROR	5.1.17.10 N	Mar 86
POTENTIAL PROBLEM WHEN FIRST FILE RESTORED IS CONTIGUOUS	5.1.17.11 M	Apr 86
BRU /IMAGE:RESTORE DISPLAYS ERRORS DESPITE SUCCESS	5.1.17.12 M	Jun 86
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BRU /VERIFY INCORRECTLY RESTORES DISK WITH ONLY EMPTY UFDS	5.1.17.17 M	Sep 86
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CSI\$1 AND CSI\$2 MEMORY PROTECT	5.2.6.1 M	Mar 86
SYSLIB \$DIVD CONFLICTS WITH FORTTRAN IV \$DIVD	5.2.6.2 N	Jun 86
CSII AND CSI2 ARE INCORRECT FOR UPDATE C	5.2.6.3 M	Dec 86

<u>Component</u>	<u>Sequence</u>	<u>Mon/Yr</u>
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<u>Task Builder</u>		
TKB SWITCH /CL DOES NOT WORK	5.3.0.1 M	Apr 86
MULTIPLE REFERENCES TO .PSECT IN SEGMENT CAUSE TKB TO ABORT	5.3.0.2 M	Apr 86
TKB		
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I/D TASK LINKED TO LIBRARY AND COMMON DOES NOT BUILD	5.3.1.2 M	Feb 86
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HELP		
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DCL		
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DCL SET PROTECTION DOES NOT WORK WITH FILES STARTING WITH "L"	6.1.0.11 M	Aug 86
SET DEFAULT WITHOUT PARAMETERS DOES NOT WORK CORRECTLY	6.1.0.12 M	Sep 86
SHOW QUEUE/DEVICE/BRIEF FAILS	6.1.0.13 M	Nov 86
SET DEVICE /WRITECHECK TRANSLATES INCORRECTLY	6.1.0.14 M	Nov 86
RSX-11 2780/3780 Protocol Emulator V4.1		
CONDITIONS FOR AUTOMATIC SIGN ON	10.5.1.1 N*	Sep 85

<u>Component</u>	<u>Sequence</u>	<u>Mon/Yr</u>
DECnet-11M/S V4.2		
DECnet-11M/S PROBLEMS FIXED ON RSX-11M AND RSX-11S LAYERED UPDATE B	10.8.3.1 N	May 86
DECnet-RSX DELUA DEVICE SUPPORT	10.8.3.2 N	May 86
BASIC-PLUS-2 V2.3		
PROBLEM WITH PRINT USING	10.20.1.1 N	Dec 85
BASIC-PLUS-2 V2.3 RSX UPDATE B NOTICE	10.20.1.2 N	Sep 86
FORTRAN IV/RSX V2.6		
OTS		
LIST-DIRECTED READ	16.1.1.1 N	Dec 85
Update C		
FORTRAN IV PROBLEMS CORRECTED ON UPDATE C	16.1.2.1 N	Jun 86
FORTRAN IV/VAX to RSX V2.7		
INSTALLATION GUIDE/RELEASE NOTES ERRATA	16.2.1.1 N	Jul 86
PDP-11 Symbolic Debugger V2.0		
ANNOUNCING THE PDP-11 SYMBOLIC DEBUGGER V2.0	17.1.1.1 N	Apr 86



RSX-11S V4.2
SYSGEN
Command Files

Seq. No. 1.1.1.3 N

1 of 1

SYSPAR PARTITION SIZE IS TOO SMALL FOR TKRN (SPR 11-S00302X EP)

PROBLEM
STATEMENT:

The SYSPAR partition size specification is too small for TKTN when building an RSX-11S system.

RESPONSE:

This problem occurs when RSXMC.MAC is edited as directed in the DECnet-RSX Network Generation and Installation Guide, Section 3.2.6, Support for SLD (RSX-11S only), to include the symbols D\$\$ISK and C\$\$CKP.

The definition of these symbols causes checkpointing and task loader support to be included in TKTN. Several added error messages increase TKTN's size beyond the 3700 bytes specified in the TKN11SBLD.CMD file.

Because of the consequences of this action, the manual should also direct the reader to edit the task build command file by answering "Yes" to the appropriate question and increasing the partition size to at least the 3724 bytes the task requires.

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RSX-11S V4.2
System Libraries
CSI

Seq. No. 5.2.6.2 M

1 of 2

CSI1 AND CSI2 ARE INCORRECT FOR UPDATE C (SPR 11-S00308X TS)

PROBLEM
STATEMENT:

A correction for Update C in the CSI modules causes the CSI modules to always return a status of success (that is, Carry Clear) even if an error was encountered during the parsing of the command string. This leads tasks which use these modules to believe that the command string is syntactically correct even when it is not.

RESPONSE:

The following procedure will correct the problem of the CSI modules not returning carry set when an error has occurred.

Procedure for Correcting RSX-11S CSI

Note that if you are using RSX-11M V4.2 as a host system for your RSX-11S system generation, then the CSI problem should be corrected by following the Procedure for Correcting RSX-11M CSI before generating your RSX-11S system and its associated user-written tasks.

None of the Digital-supplied utilities are affected by the CSI problem. However, if it is deemed necessary to correct SYSLIB.OLB for RSX-11S, this procedure will guide you through the steps necessary to effect this change. The previous versions of .CSI1 and .CSI2 can be extracted from the host system's SYSLIB.OLB and be replaced in SYSLIB.OLB for RSX-11S.

For VAX-11 RSX V2.1 or V2.2 and RSX-11M-PLUS V3.0 Update A or Update B, SYSLIB.OLB will be in LB:[1,1].

First, extract the modules from the host's SYSLIB with the Librarian.

```
>SET /NONAMED (do NOT issue this command unless you are operating
                under RSX-11M-PLUS V3.0 Update A or Update B)
>SET /UIC=[1,1]
>LBR CSI.OBJ=LB:[1,1]SYSLIB.OLB/EX:.CSI1:.CSI2
```

RSX-11S V4.2
System Libraries
CSI

Seq. No. 5.2.6.2 M

2 of 2

Replace the CSI modules in SYSLIB.OLB for RSX-11S with the Librarian. Note that the string <11S_kit_device>: is to be replaced by the physical device name where the copy of the RSX-11S distribution media has been mounted.

```
>LBR <11S_kit_device>:[1,1]SYSLIB.OLB/RP=CSI.OBJ  
>PIP CSI.OBJ;* /DE
```

This completes the corrections to RSX-11S V4.2 SYSLIB.OLB.

RSX-11S V4.2
 CUMULATIVE INDEX
 DECEMBER 1986

This is a complete listing of all articles for RSX-11S V4.2 and layered products. Missing sequence numbers may pertain to problems unique to other versions of the same product or other major operating systems.

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 modification or because they are not consistent with the design 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>
<u>RSX-11S V4.2</u>		
<u>SYSGEN</u>		
<u>Command Files</u>		
SGNPER ABORTS WHEN CREATING DATABASE FOR VT11	1.1.1.1 M	Sep 86
NO RESPONSES ARE ACCEPTED FOR DHV11 DEVICES	1.1.1.2 N	Nov 86
SYSPAR PARTITION SIZE IS TOO SMALL FOR TCRN	1.1.1.3 N	Dec 86
<u>Update</u>		
FMS-11/RSX VERSION NUMBER INCORRECT IN UPDATE C NOTES	1.1.3.1 M	Nov 86
<u>11SGEN2</u>		
11SGEN2 RETURNS "COMMAND FILE OPEN ERROR"	1.1.6.1 M	Feb 86
11SGEN2 PROBLEMS	1.1.6.2 M	Apr 86
11SGEN LOOKS FOR UML, RCT, AND CDA BLD FILES IN [1,20]	1.1.6.3 M	May 86

<u>Component</u>	<u>Sequence</u>	<u>Mon/Yr</u>
<u>Executive</u>		
<u>Directives</u>		
ACD SUPPORT CAUSES AN UNDEFINED SYMBOL IN SYSGEN	2.1.1.1 M	Jun 86
<u>Drivers</u>		
<u>MUDRV</u>		
MUDRV DOES NOT SUPPORT MULTIPLE-DENSITY TAPE DRIVES	3.1.2.1 M	Mar 86
SYSTEM CRASHES WITH MUDRV/PUCOM MAPPED	3.1.2.2 M	Mar 86
<u>FDX-TTDRV</u>		
GET/SET CHARACTERISTIC DOES NOT WORK WHEN GET OPTIONS NOT SELECTED	3.1.3.1 M	Jun 86
BIC OF S6.EIO NOT CONDITIONALIZED ON EXTENDED I/O	3.1.3.2 M	Jul 86
SIX CORRECTIONS TO TTDRV	3.1.3.3 M	Oct 86
TF.RAL FUNCTIONALITY CHANGE	3.1.3.4 N	Nov 86
<u>Utilities</u>		
<u>BRU</u>		
BRU "NO FILES FOUND" PROBLEM CORRECTED	5.1.17.1 M	Dec 85
<u>System Libraries</u>		
<u>CSI</u>		
CSI\$1 AND CSI\$2 MEMORY PROTECT	5.2.6.1 M	Mar 86
CSI1 AND CSI2 ARE INCORRECT FOR UPDATE C	5.2.6.2 M	Dec 86
<u>Misc SYS Tasks</u>		
<u>RCT</u>		
RCT DOES NOT REPLACE ALL BAD BLOCKS	5.7.15.1 M	Feb 86
DECnet-11M/S V4.2		
DECnet-11M/S PROBLEMS FIXED ON RSX-11M AND RSX-11S LAYERED UPDATE B	10.8.3.1 N	May 86
DECnet-RSX DELUA DEVICE SUPPORT	10.8.3.2 N	May 86



RSX-11M-PLUS V3.0
SYSGEN
Distrib Kits

Seq. No. 1.1.2.3 M

1 of 1

ODTID.OBJ IS NOT SUPPLIED WITH THE PREGENERATED KIT (SPR 11-P03022 KN)

PROBLEM
STATEMENT:

The file ODTID.OBJ is missing from the RSX-11M-PLUS Version 3.0 pregenerated RL02 distribution kit.

RESPONSE:

The procedures that produce the RL02 kit have been updated to include ODTID.OBJ for RSX-11M-PLUS Version 3.0 Update C.

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RSX-11M-PLUS V3.0
SYSGEN
Update

Seq. No. 1.1.3.2 R

1 of 1

RSX-11M-PLUS UPDATE C RK07 KIT CONTIGUOUS SPACE PROBLEM (SPR 11-P00306X DK)

PROBLEM
STATEMENT:

During the system startup of some RSX-11M-PLUS V3.0 Update C systems on an RK07 kit, the following error is generated:

ACS -- File I/O error -00024.

RESPONSE:

This error occurs because there are not enough contiguous free blocks on the RK07 system disk for the startup procedure to allocate for the system checkpoint file.

Refer to the RSX-11M-PLUS Version 3.0 System Generation and Installation Guide, Section 4.3, for instructions on recovering disk space after a system generation.

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RSX-11M-PLUS V3.0
MCR
ICM

Seq. No. 2.2.3.15 M
1 of 1

.ENABLE SUBS, QUIET IGNORES COMMAND LINE FOLLOWING "SUBS" (SPR 11-P91560 RDH)

PROBLEM
STATEMENT:

The Indirect command line .ENABLE SUBS, QUIET does not parse the second parameter. The QUIET is totally ignored.

RESPONSE:

In parsing a .ENABLE or .DISABLE command line, Indirect compares the first option with a table of valid strings. Each entry in the table ends with a NUL character which terminates comparison against that entry. That is, if there are characters appended to the option in the command line, they will not cause a mismatch or a syntax error. After finding a match and processing the option, Indirect tests the next nonblank character. If it is a comma, the table search is executed on the following option, etc. If it is any other character, Indirect assumes that the balance of the command line is a comment and ignores it. In the problem statement, the extra S on the end of SUB yields this result.

The workaround to this problem is to ensure that the options are spelled precisely as they are given in the description of the .ENABLE/.DISABLE directives in the documentation. This also applies to the undocumented use of the SUB short form of SUBSTITUTION.

A future update of RSX-11M-PLUS will include changes which will result in a syntax error if the character following an option is not a comma, semicolon, or exclamation point. The latter two symbols are valid comment delimiters. The SUB short form will be documented in a future release of RSX. Allowing abbreviations of the other options will be considered in a future release.

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RSX-11M-PLUS V3.0
Batch/Queue Mgr
BPR

Seq. No. 4.1.1.3 M

1 of 1

"BYE" SPAWNED FROM A TASK KILLS BAPO (SPR 11-P00195P DR)

PROBLEM
STATEMENT:

BPR and QMG report the following messages on the system console:

```
BPR -- *FATAL-Spawn failure (TTTTTT)
QMG -- Unexpected exit processor TTTTTT, aborted job = NNNNNNNNNN
```

where "TTTTTT" is the task name of the failing batch processor and "NNNNNNNNNN" is the name of the job that was being executed.

RESPONSE:

The following is an example of a batch command procedure that reproduces the problem described:

```
$ JOB
$ RUN task
$ EOJ
```

where "task" spawns BYE at some point. This task exits with an error status because BYE aborts it. Upon detecting the error status, BPR determines the associated virtual terminal should be logged out (in lieu of ON or IF statements being specified). BPR attempts to spawn BYE itself and, unfortunately, does not check if it is already active.

Although it is not a restriction, it is not advisable to spawn BYE explicitly. Instead, use the ON and IF statements to detect errors and take appropriate measures, for instance, terminating the job with a STOP statement.

BPR is fixed in RSX-11M-PLUS Version 3.0 Update D. Among other things, BPR does check if BYE is already active. To recover, BPR connects to BYE and waits for it to complete.

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RSX-11M-PLUS V3.0
Multiuser Task
HELLO

Seq. No. 4.2.4.5 M

1 of 1

HELLO CRASHES SYSTEM WITHOUT EXTERNAL HEADER SUPPORT (SPR 11-P00212P RDH)

PROBLEM
STATEMENT:

A system generated without external header support and including less than 2.5 Mbyte of memory crashes in HELLO. If it contains more than 2.5 Mbyte, the routine which tests if the console is redirected to the user's terminal will return spurious results.

RESPONSE:

The HELLO task switches to kernel mode to access the UCBs for the user's terminal (TI:) and the console. In kernel mode, APR6 is mapped to HELLO's task header (if external headers are supported) or to an indeterminate value (if nonexternal headers are supported). The latter case is a redundancy, since nonexternal headers reside in pool space which is never addressed through APR6. However, HELLO maintains the address of the TI: UCB in a local variable which is located in APR6 and uses this variable subsequent to the mapping, thereby, obtaining unpredictable results if the system does not support external headers.

The workaround for this problem is to include external header support at SYSGEN.

RSX-11M-PLUS Version 3.0 Update D will include a correction for this problem. Accessing of the TI: UCB will precede the mapping of APR6.

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RSX-11M-PLUS V3.0
System Libraries
CSI

Seq. No. 5.2.6.4 M

1 of 6

CS11 AND CS12 ARE INCORRECT FOR UPDATE C (SPR 11-P00307X TS)

PROBLEM
STATEMENT:

A correction for Update C in the CSI modules causes the CSI modules to always return a status of success (that is, Carry Clear) even if an error was encountered during the parsing of the command string. This leads tasks which use these modules to believe that the command string is syntactically correct even when it is not.

RESPONSE:

The following procedures will correct the problem of the CSI modules not returning carry set when an error has occurred.

Procedure for Correcting RSX-11M-PLUS CSI--All Kits Except Pregenerated RL02

The simplest way to correct the CSI problem is to use the original Version 3.0 CSI modules and discard the corrected Update C versions. The problem that was corrected in Update C was an obscure case involving command lines that end exactly at the end of a task. This problem did not affect any Digital-supplied utilities and should not affect most applications.

The following instructions assume that you are using the baseline system to apply corrections and that LBR, EDT, and PIP are installed.

To correct the problem, you must first make a copy of your distribution kit in order to perform a SYSGEN. After copying the distribution kit, issue the following commands to preserve a copy of the original CSI modules:

```
>SET /NONAMED      (do NOT use this command if you are performing the
                    installation on an RSX-11M-PLUS Version 2.1 system)
>ASN ddnn:=LB:
>ASN ddnn:=SY:
>SET /UIC=[1,1]
>LBR CSI.OBJ=SYSLIB.OLB/EX:.CS11:.CS12
>SET /UIC=[200,200]
```

Now, apply Update C:

```
>@UPDATE
```

RSX-11M-PLUS V3.0
System Libraries
CSI

Seq. No. 5.2.6.4 M

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After applying the update, you must replace the original CSI modules in SYSLIB by using the following commands:

```
>ASN ddnn:=LB:
>ASN ddnn:=SY:
>SET /UIC=[1,1]
>LBR SYSLIB/RP=CSI
>LBR NOANSLIB/RP=CSI
```

Next, edit the file FCSRS1BLD.BLD in [1,20]. Change the extend section of \$\$\$\$1 from 2 to 22 so that the edited line reads ".DATA EXTSTCT=\$\$\$\$1:022" (without the quotes). Next, invoke the SGNBLDBLD procedure to build a new FCSRES.TSK. In the @[200,200]SGNBLDBLD command below, DEV is the actual character string DEV, and is not shorthand for a device name.

```
>SET /UIC=[1,20]
>EDT FCSRS1BLD.BLD
*$$$$1<CR>
  .DATA EXTSTCT=$$$$1:02
*S/2/22/<CR>
  .DATA EXTSTCT=$$$$1:022
l substitution
*EXIT

>@[200,200]SGNBLDBLD.CMD DEV
```

SGNBLDBLD will ask several questions. You must give the following responses:

```
>;
>; RSX-11M V4.1/RSX-11M-PLUS V2.1 System Generation Phase III -- Version 03.01
>;      **** in DEV mode ***
>;
>; 12-NOV-86 23:54:48
>;
>* 2A. System:  A- RSX-11M      B- RSX-11M-PLUS      C- IAS [S]: B
>* 3. Enter task name(s) [S]: FCSRS1.
                                (^ be sure to include the period)
>;
>; LB:[1,1]FCSRES.STB can be used to build many tasks
>; so that those tasks link to the FCS resident library
>;
>* 3A. Use LB:[1,1]FCSRES.STB when building those tasks? [Y/N]: N
>;
```

RSX-11M-PLUS V3.0
System Libraries
CSI

Seq. No. 5.2.6.4 M

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```
>; LB:[1,1]FCSFSL.STB can be used to build many
>; tasks so that those tasks can be linked to
>; the FCS resident supervisor mode library
>;
>* 4. Use LB:[1,1]FCSFSL.STB when building those tasks? [Y/N]: N
>* 5. Pause to edit any task build .CMD or .ODL files? [Y/N]: N
>* 5A. Task build the task(s)? [Y/N]: Y
>* 6. Delete task build .CMD and .ODL files after task building? [Y/N]: Y
>;
>; Creating the task build .CMD and .ODL files in SY:[1,20]
>;
>TKB @SY:[1,20]FCSRS1BLD.CMD
><EOF>
```

At this point, the old version of CSI has been placed in the new SYSLIB. After the command file completes, FCSRES.TSK will have also been built. You must copy FCSRES.TSK from the current directory to UFD [1,1].

```
>PIP [1,1]/NV/CO=FCSRES.TSK
```

Next, you must invoke the SYSGEN command file and start the generation. You must build the NONRES/NONFSL versions of the nonprivileged tasks so that they will contain the original Version 3.0 CSI.

```
>SET /UIC=[200,200]
>@SYSGEN
```

Procedure for Correcting RSX-11M-PLUS CSI--Pregenerated RL02 Kit

The FCSRES.TSK on the RL02 pregenerated kit contains the Version 3.0 CSI modules. Therefore, the RES and FSL task versions will operate correctly. There are only a few NONRES/NONFSL Digital-supplied task images on the kit. The RL02 kit does not contain the necessary components to rebuild the NONRES/NONFSL versions of the Digital-supplied utilities. However, you can repair the SYSLIB version of CSI using the ZAP utility so that the problem will not affect user tasks built on the pregenerated kit that are not linked with FCSRES.TSK.

To correct the problem, you must first make a copy of your distribution kit. You must delete one of the two RSX-11M-PLUS systems on the copy of the pregenerated RL02 kit to obtain enough free space to apply the corrections. See Sections 5.2.3.3 and 5.2.3.4 of the RSX-11M-PLUS V3.0 System Generation and Installation Guide for details.

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System Libraries
CSI

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The following instructions assume that you are using the baseline system to apply corrections and that LBR, EDT, SLP, ZAP, and PIP are installed.

First, extract the CSI modules from SYSLIB.

```
>SET /NONAMED
>SET /UIC=[1,1]
>LBR CSI1.OBJ=SYSLIB.OLB/EX:.CSI1
>LBR CSI2.OBJ=SYSLIB.OLB/EX:.CSI2
```

Next, create files CSI1.SLP and CSI2.SLP using EDT. Be sure to create these files in uppercase text only:

```
>EDT CSI1.SLP
Input file does not exist
[EOB]
*INSERT
    CSI1.ZAP/-AU/CS:102136=
    CSI1.OBJ/AB
    2:74/
    536V
    535
    2:106/
    1131V
    1130
    2:132/
    1122V
    1121
    2:200/
    477V
    476
    2:370/
    1406V
    1405
    2:402/
    5004V
    406
    2:404/
    405V
    160402
    2:406/
    160402V
    10260
```

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CSI

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```

2:410/
10260V
16
2:412/
16V
10460
2:414/
10460V
20
2:416/
20V
261
X
/
^Z  (<--Use <CTRL>Z to exit input mode)

```

```

[EOB]
*EXIT
(device/directory specification)...]CSI1.SLP;1 40 lines
>EDT CSI2.SLP
Input file does not exist
*INSERT

```

```

CSI2.ZAP/-AU/CS:135651=
CSI2.OBJ/AB
2:222/
5726V
6026
X
/
^Z  (<--Use <CTRL>Z to exit input mode)

```

```

[EOB]
*EXIT
(device/directory specification)...]CSI2.SLP;1 7 lines
>

```

You will now use the files you just created to create two command files for ZAP. This is done using the SLP utility. The reason for creating the command files this way rather than directly with the editor is that SLP has the capability to calculate a checksum, ensuring that the command file you create is the same as the one listed above.

```

>SLP @CSI1.SLP
>SLP @CSI2.SLP

```

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System Libraries
CSI

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If you receive the message:

```
SLP -- *DIAG*-Error in command file CSIn.SLP;l checksum
```

it implies that the file noted in the message does not match the file shown above. Check the file carefully with EDT. After it is corrected, continue this procedure at the SLP commands above.

Now, correct the CSI object modules using ZAP:

```
\ZAP @CSI1.ZAP  
>ZAP @CSI2.ZAP
```

ZAP will display numerous octal values while it is applying the corrections. These displays may be ignored. If ZAP completes without issuing an error message, the object modules are now corrected. If ZAP issues the error message:

```
ZAP -- Verify failure
```

it indicates that the modules are not the correct Update C modules. You should not continue with this procedure until you have determined the cause of the error.

Finally, replace the modules in SYSLIB with the Librarian:

```
>LBR SYSLIB.OLB/RP=CSI1,CSI2  
>LBR NOANSLIB.OLB/RP=CSI1,CSI2  
>PIP CSI1.OBJ;*/DE,CSI2.OBJ;*
```

RSX-11M-PLUS V3.0
Misc SYS Tasks
HELP

Seq. No. 5.7.1.2 M

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STRING SYNONYMS DO NOT WORK (SPR 11-P00311X JF)

PROBLEM
STATEMENT:

String synonyms as documented in the RSX-11M-PLUS V3.0 MCR Operations Manual do not work.

RESPONSE:

There is a problem with the way HELP looks for string synonyms. Regular synonyms work correctly, but string synonyms do not. When processing a string synonym, HELP copies the string synonym to an internal buffer, but does not set up the pointer to the buffer correctly. As a result, the entry corresponding to the string synonym is not found in the help file.

This problem will be corrected in RSX-11M-PLUS Version 3.0 Update E.

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RSX-11M-PLUS V3.0
Misc SYS Tasks
RCT

Seq. No. 5.7.15.2 M

1 of 1

SYSTEM DISK BECOMES SOFTWARE WRITE LOCKED DURING BBR (SPR 11-P00309X GM)

PROBLEM
STATEMENT:

In RSX-11M-PLUS Version 3.0 Update B, a DU disk will become software write protected if a bad block is detected and RCT tries to replace it.

RESPONSE:

This problem occurs when DUDRV encounters a bad block on the disk and attempts to replace it. During the replacement, RCT performs several checks to insure that the replacement was successful. There is an error in one of these checks which causes the disk to become software write protected.

This problem is corrected in RSX-11M-PLUS Version 3.0 Update C.

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WPS-PLUS/RSX V1.0
for RSX-11M-PLUS V3.0

Seq. No. 21.1.1.1 M

1 of 6

ANNOUNCING WPS-PLUS/RSX FOR Micro-11s AND PDP-11s

PRODUCT DESCRIPTION

WPS-PLUS/RSX is a document-processing software application that provides Gold Key word processing. WPS-PLUS/RSX runs as a layered product under the RSX-11M-PLUS and Micro/RSX operating systems.

WPS-PLUS/RSX features menu-driven document processing, including word and list processing with math and sort capabilities. WPS-PLUS/RSX editing permits the user to input and correct text without retyping. Editor math allows users to perform mathematical computations on tables of numbers. List processing allows production of many identical or nearly identical documents, including reports, customized letters, and mailing lists. Math and Sort utilities permit the user to manipulate data within the list processing documents.

WPS-PLUS/RSX Spell Verifier and Corrector offers a choice of either American or British dictionaries.

FEATURES

WPS-PLUS/RSX allows the user the following capabilities:

- o Create, edit, and print documents
- o Produce form letters and maintain lists
- o File and retrieve documents by name and number
- o Include data from an RSX application in a document by using the Gold GET command
- o Convert WPS-PLUS/RSX documents to RSX native files
- o Include technical characters and scientific equations in a document
- o Use of change bars and redlining
- o Include diagrams, matrices, VT100 character set equations, composite and multinational characters in a document
- o Verify and correct spelling and capitalization while editing*
- o Use of attributes such as bolding, underlining, etc.

*This feature is only available for systems with instruction and data (I&D) space

Word Processing Capabilities

- o Full screen editing and four directional cursor movement keys
- o User control of margins/tabs/left-right justification, and decimal alignment
- o Create and display wide documents (up to 158 characters)
- o Ten rulers stored for immediate recall
- o Automatic word wrap and printing with ragged or justified right margins
- o Semiautomatic hyphenation
- o Automatic centering/underlining/bolding/uppercasing and double under-scoring with reverse functions capability
- o Subscript/Superscript
- o Date and time stamp
- o Cut and paste to move a copy of text within a document, or from one document to another
- o Cursor movement and text selection by character, word, line, sentence, paragraph or page
- o Search and Search/Replace functions
- o Global Search and Replace functions
- o Go-to-page for movement directly to a specific page in a paginated document
- o User control of pagination

WPS-PLUS/RSX word processing commands allow the user to:

- o Insert headers and footers at top or bottom of each page in document
- o Print multicolumn tables
- o Number pages automatically
- o Calculate automatically with four-function math capability (add, subtract, multiply, and divide)
- o Insert comments that appear only on the screen and not in printed document

WPS-PLUS/RSX includes an Editor Menu which provides for:

- o Automatic pagination
- o Global Search and Replace
- o Selection of abbreviation and library documents to allow insertion of stored words or phrases with a single keystroke

WPS-PLUS/RSX V1.0
for RSX-11M-PLUS V3.0

Seq. No. 21.1.1.1 M

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Spell Verifier and Corrector (c)

WPS-PLUS/RSX includes the Spell Verifier and Corrector for verifying and correcting spelling, capitalization or common typing errors. The user can:

- o Access Spell using a Gold Key command while editing a document
- o Verify or correct a single word or selected region of a document
- o Add words to the user's personal data base dictionary

The spelling data base contains over 87,000 words in either American English or British English. These can be used in conjunction with over 1,000 additional user-specific words.

List Processing, Sort, and Math

The user can generate customized letters or reports using:

- o A forms document such as a letter or report
- o A list document which contains records of variable text, such as names and addresses
- o A selection specification which identifies the records to process
- o An output document, which contains the results of list processing

List Processing Features

- o List a document with several records
- o Ability to sort a list document on one or more fields in ascending or descending order
- o Math commands for automatic calculations during List Processing

Two-Dimensional Editor

The Two-Dimensional Editor allows the user to create diagrams, scientific equations, line drawings, charts, matrices and VT100 character set equations.

(c) Spelling System licensed under U.S. Pat. No. 4,580,241 and Canadian Pat. No. 1,203,916, copyright by Houghton Mifflin. All rights reserved. Based upon the American Heritage Dictionary.

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for RSX-11M-PLUS V3.0

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Integrated Filing System

WPS-PLUS/RSX provides an integrated filing system with a file cabinet for each user. Some of the file cabinet features are:

- o Document names up to 50 characters and folder names up to 30 characters
- o Document retrieval by folder and document name or system-assigned number

Help Facility

WPS-PLUS/RSX provides a Help facility that allows the user to obtain additional information on the keyboard layout while in the editor, as well as keyboard layout and technical character set layout while in the Two-Dimensional Editor.

User-Defined Keys

User-defined keys (UDKs) allow users to automate frequently repeated key sequences. A user can invoke UDKs from any WPS-PLUS/RSX menu or form, or while editing a document. The user can store up to 200 characters in a single UDK and up to 100 active UDKs.

WPS-PLUS/RSX Conversion Utilities

The WPS-PLUS/RSX Document Conversion Utilities menu allows users to convert:

- o WPS-PLUS document format to an ASCII file
- o ASCII file to a WPS-PLUS document format
- o WPS-PLUS document format to DECdx format
- o DECdx format to a WPS-PLUS format

NOTE

WPS-PLUS/RSX allows users to convert documents to and from DX format on disk. DECdx/RSX, a separately purchased product, allows users to transfer DX files to remote systems asynchronously. DECnet for RSX-11M-PLUS and Micro/RSX allows users to transfer DX files synchronously.

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for RSX-11M-PLUS V3.0

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SPECIFICATIONS

Minimum Hardware Required

Any valid RSX-11M-PLUS or Micro/RSX operating system configuration with:

- o 5000 blocks of disk space required for installation, of which 3800 blocks must be contiguous
- o 5000 blocks of disk space required for use (permanent), of which 3800 blocks must be contiguous, plus additional disk space to store WPS-PLUS documents
- o CPUs with 22-bit addressing
- o I&D space required for the spell portion of WPS-PLUS/RSX
- o Memory requirements are determined by the number of concurrent users in WPS-PLUS/RSX.

Refer to the following list for memory requirements:

<u>Concurrent Users</u>	<u>Dedicated Memory</u>
2	384KW
3	512KW
6	784KW
11	1024KW

Prerequisite Software

- o RSX-11M-PLUS V3.0 (or later) or Micro/RSX V3.0 (or later) operating systems

Optional Hardware

- o VT100, VT200 terminals
- o DECmate II and III
- o Professional 300 or Rainbow 100 series in terminal emulation
- o LA100, LA210, LA50, LA75
- o LN01, LN03
- o LQP02, LQP03
- o LP11

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for RSX-11M-PLUS V3.0

Seq. No. 21.1.1.1 M

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NOTE

WPS-PLUS/RSX supports only those terminals with Advanced Video Option (AVO). It does not support the VT100 without AVO, DECmate I, or WS78.

Optional Software

- o DECdx/RSX
- o DECnet-11M-PLUS
- o DECnet-Micro/RSX

AVAILABILITY

WPS-PLUS/RSX V1.0 is available from Digital this month. Contact your local Digital account representative for information on purchasing this product.

RSX-11M-PLUS V3.0
CUMULATIVE INDEX
DECEMBER 1986

This is a complete listing of all articles for RSX-11M-PLUS V3.0 and layered products. Missing sequence numbers may pertain to problems unique to other versions of the same product or other major operating systems.

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 modification or because they are not consistent with the design 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.

* = Articles appeared in the RSX-11M-PLUS V3.0 Software Dispatch Review, August 1985.

<u>Component</u>	<u>Sequence</u>	<u>Mon/Yr</u>
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ACF MAY NOT CORRECTLY SET UP DV,NUC IN CONFIG.DAT FOR RSO3/4s	1.1.1.1 M	Apr 86
UNDEFINED REFERENCE IN DR4COM.MAP	1.1.1.2 M	May 86
ACT FAILS TO DETECT FIFTH D211	1.1.1.3.N	Jun 86
<u>Command Files</u>		
SYSGEN FOR NONZERO MU: PHYSICAL UNIT NUMBERS	1.1.1.4 M	Jul 86
APPLICATION NOT PROPERLY INSTALLED	1.1.1.5 M	Sep 86

<u>Component</u>	<u>Sequence</u>	<u>Mon/Yr</u>
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DAPRES NOT PROPERLY INSTALLED	1.1.2.1 M	Feb 86
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ODTID.OBJ IS NOT SUPPLIED WITH THE PREGENERATED KIT	1.1.2.3 M	Dec 86
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TASKS WITHOUT EXTERNAL HEADERS CRASH SYSTEM WITH CRAW\$	2.1.1.4 M	Jun 86
A PARSE OF " " CRASHES THE SYSTEM	2.1.1.5 M	Jul 86
FSS\$ ALWAYS RETURNS SUCCESS	2.1.1.6 N	Jul 86
DRPFN \$LNPCS REMOVES ZEROS	2.1.1.7 M	Jul 86
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RPOI RETURNS IE.IDU FROM A VT:	2.1.1.10 M	Sep 86
FEAT\$C DIRECTIVE DOES NOT WORK IN I- AND D-SPACE TASKS	2.1.1.11 M	Oct 86
PARSE OF REMOTE QUOTED FILESPEC APPENDS FILE TYPE	2.1.1.12 M	Nov 86
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DRMAP HAS UNDEFINED SYMBOL IN FAST MAPPING SUPPORT	2.1.6.2 M	May 86
UNMAPPED FAST MAP WINDOW DESCRIPTOR CAUSES SYSTEM CRASH	2.1.6.3 M	Aug 86
ERROR LOGGER REPORT FOR RK07 IS MEANINGLESS	2.1.6.4 M	Aug 86
TASKS RUN WITH /UIC SWITCH GET WRONG UIC	2.1.6.5 M	Oct 86
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CBD NEEDS TO KNOW ABOUT NEW REGION CHARACTERISTICS	2.2.1.1 M	Jan 86
ASN COMMANDS WITH NULL LOGICALS CAUSE SYSTEM CRASH	2.2.1.2 M	Apr 86
SET /CACHE EXTENT SIZE = 0 CRASHES SYSTEM	2.2.1.3 M	Jun 86
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SET /SPEED DOES NOT ACCEPT EXTA OR EXTB	2.2.1.5 M	Jul 86

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SPECIAL SYMBOL <UIC> SOMETIMES ERRONEOUS IN NAMED MODE	2.2.3.4 M	Feb 86
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INVALID CHARACTERS IN SUBSTITUTION SYMBOL NAMES	2.2.3.6 M	Mar 86
INDIRECT COMMAND .SETT <ERSEEN> LEAVES IT FALSE	2.2.3.7 M	Mar 86
.EXIT DIRECTIVE WITHIN BEGIN-END BLOCK	2.2.3.8 M	Mar 86
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CORRUPTED BEGIN-END BLOCK POINTERS IN LOCAL SYMBOL TABLE	2.2.3.12 M	Apr 86
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CANNOT USE MS: DEVICE ON 22-BIT, Q-BUS I/D SYSTEM	3.1.2.5 M	Jul 86

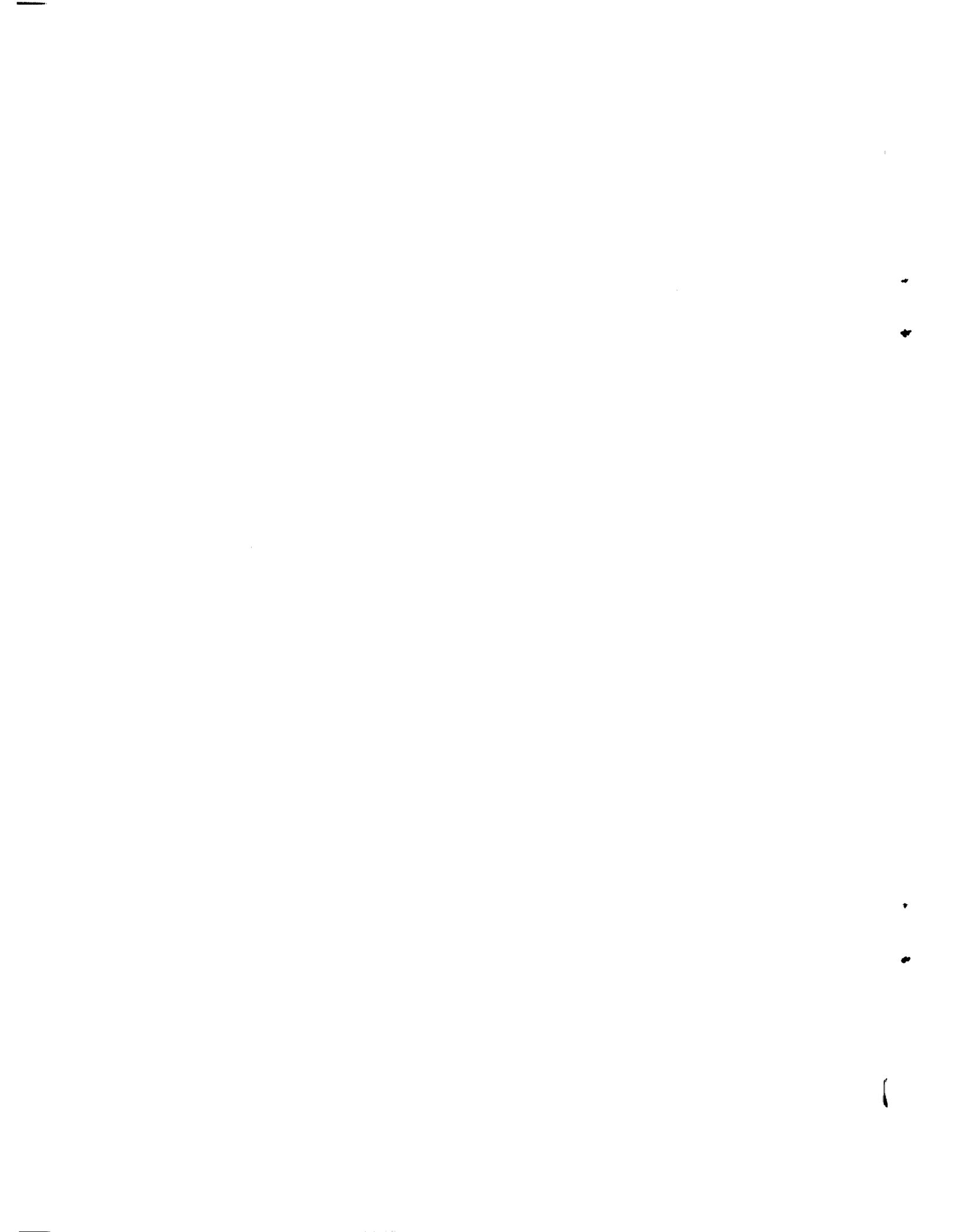
<u>Component</u>	<u>Sequence</u>	<u>Mon/Yr</u>
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<u>Component</u>	<u>Sequence</u>	<u>Mon/Yr</u>
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LN03 PRINTS 51 LINES PER SHEET IN LANDSCAPE MODE	4.1.5.3 M	Jun 86
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IF LAST NAME CHANGED IN ACNT, PASSWORD DOES NOT WORK	4.2.1.1 N	May 86
A NAMED DIRECTORY OF [G,M] TYPE NOT DELETED BY ACNT	4.2.1.2 M	May 86
ACNT PUTS USER IN NAMED MODE IF ANYTHING TYPED FOR DEFAULT DIRECTORY	4.2.1.3 N	May 86
NULL PASSWORD NOT ALLOWED IN PSW	4.2.1.4 M	Jun 86
ACNT DOES NOT ALLOW REMOVAL OF DEFAULT FILE PROTECTION	4.2.1.5 M	Jul 86
ACNT HANGS WHEN DELETING [GGGMMM] TYPE DIR	4.2.1.6 M	Oct 86
BRO		
BRO ON SYSTEMS WITHOUT ACCOUNTING: GARBAGE IN USER NAME	4.2.2.1 N	Apr 86
BYE		
BYE HANGS WITH LOW POOL	4.2.3.1 M	Jun 86
BYE FROM BATCH JOB OR SILENT CLI DOES NOT ABORT INDIRECT	4.2.3.2 M	Sep 86
HELLO		
SYSTEM CRASH WHEN USER ENTERS INCORRECT PASSWORD	4.2.4.1 M	Jul 86
ODD ADDRESS TRAP IN HELLO IF SYSGEN WITHOUT ALTERNATE CLI	4.2.4.2 M	Jul 86
DEFAULT CLI PROMPT MUST BE THREE OR MORE BYTES	4.2.4.3 M	Sep 86
HELLO ERROR MESSAGE INCORRECT WHEN LOGGED IN	4.2.4.4 M	Oct 86
HELLO CRASHES SYSTEM WITHOUT EXTERNAL HEADER SUPPORT	4.2.4.5 M	Dec 86
SHUTUP		
MISLEADING ACCOUNTING WARNINGS IN SHUTUP	4.2.5.1 M	May 86
<u>Utilities</u>		
BAD		
/ALLOCATE AND /NOEXERCISE GIVE I/O ERROR CODE -2 IN ANALYZE	5.1.1.1 M	Jun 86
INI		
INI WILL NOT EXECUTE A COMMAND LINE GREATER THAN 80 CHARACTERS	5.1.8.1 M	Aug 86
MOU		
MOUNT DOES NOT WAIT FOR RA80/81 TO SPIN DOWN1	5.1.10.1 M	Mar 86
MOUNT ACCEPTS EXTENT SIZES OF ZERO FOR CACHE OPTIONS	5.1.10.2 M	Jul 86
CACHE READ-AHEAD LESS THAN VIRTUAL CAN CRASH SYSTEM	5.1.10.3 M	Jul 86
MOU WILL CLEAR VOLUME VALID ON LABEL ERROR ON SHARED DISK	5.1.10.4 M	Jul 86
MOUNT ACCEPTS EXTENT SIZE OF ZERO FOR CACHE OPTIONS	5.1.10.5 M	Jul 86
PIP		
DELETING FILE, ;0 DOES NOT ALWAYS WORK PROPERLY	5.1.12.1 M	Apr 86
PIP DISPLAYS NEGATIVE NUMBER OF FILES	5.1.12.2 M	Aug 86
PIPRES/APPEND TERMINATES WITH ODD ADDRESS	5.1.12.3 M	Sep 86
BRU		
BRU "NO FILES FOUND" PROBLEM CORRECTED	5.1.17.1 M	Dec 85

<u>Component</u>	<u>Sequence</u>	<u>Mon/Yr</u>
BRU ENDS WITH MEMORY PROTECTION VIOLATION DURING RESTORES	5.1.17.2 N	Mar 86
BRU INDICATES OUTPUT DISK IS TOO FRAGMENTED DURING VERIFY	5.1.17.3 N	Mar 86
BRU MAY FAIL ON THE VERIFY PASS OF A BACKUP OPERATION	5.1.17.4 N	Mar 86
BRU REPORTS ATTACH FAILED AS SECOND FATAL ERROR	5.1.17.5 N	Mar 86
BRU REPORTS I/O STATUS OF -255	5.1.17.6 N	Mar 86
BRU REPORTS ERRORS ABOUT FILES THAT DO NOT EXIST	5.1.17.7 N	Mar 86
BRU USES WRONG IMAGE FILE FOR RESTORE/COMPARE	5.1.17.8 N	Mar 86
BRU DOES NOT RECOVER PROPERLY FROM TAPE-LABEL ERRORS	5.1.17.9 M	Mar 86
BRU--MISLEADING ERROR MESSAGE/ACTION FOR UNMOUNTED TAPES	5.1.17.10 N	Apr 86
BACKUPS TO TAPE FAIL UNDER A-TO-Z CONTROL	5.1.17.11 M	Jun 86
BRU /IMAGE:RESTORE DISPLAYS ERRORS DESPITE SUCCESS	5.1.17.12 M	Jun 86
BRU64K /COMPARE/IMAGE:SAVE DOES NOT WORK PROPERLY	5.1.17.13 M	Jul 86
STAND-ALONE BRU /IMAGE:SAVE INCORRECTLY INITIALIZES DISKS	5.1.17.14 M	Sep 86
BRU SKIPPING OVER BOOTABLE SYSTEM IMAGE	5.1.17.15 M	Sep 86
BRU PROBLEM WITH LARGE FID NUMBERS	5.1.17.16 M	Sep 86
BRU /VERIFY INCORRECTLY RESTORES DISK WITH ONLY EMPTY UFDS	5.1.17.17 M	Sep 86
<u>System Libraries</u>		
FORTRAN Exec, RSXMAC		
LOGICAL NAME FORTRAN INTERFACE ROUTINES RETURN IE.SDP	5.2.4.1 M	May 86
GDVI\$ MACROS MISSING FROM RSXMAC.SML	5.2.4.2 M	May 86
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FORTRAN CALLS WFLORS AND STLORS DO NOT WORK	5.2.4.4 M	Aug 86
TASKS USING EXEC INTERFACE MAY BUILD WITH UNDEFINED SYMBOLS	5.2.4.5 N	Nov 86
Misc SYSLIB, CSI		
CSI\$1 AND CSI\$2 MEMORY PROTECT	5.2.6.1 M	Mar 86
R1 NOT PROPERLY UPDATED IN MODULE INTDAS	5.2.6.2 M	Jun 86
SYSLIB \$DIVD CONFLICTS WITH FORTRAN IV \$DIVD	5.2.6.3 N	Jun 86
CSI1 AND CSI2 ARE INCORRECT FOR UPDATE C	5.2.6.4 M	Dec 86
<u>Task Builder</u>		
Task Builder		
TKB SWITCH /CL DOES NOT WORK	5.3.0.1 M	Apr 86
MULTIPLE REFERENCES TO .PSECT IN SEGMENT CAUSE TKB TO ABORT	5.3.0.2 M	Apr 86
TKB		
NOTES REGARDING CLUSTER LIBRARY USE	5.3.1.1 M	Aug 85
TKB OPENED AND CLOSED THE COMMAND FILE FOR EACH OPTION	5.3.1.2 N	Nov 85
I/D TASK LINKED TO LIBRARY AND COMMON DOES NOT BUILD	5.3.1.3 M	Feb 86
I/D TASK WITH DATA IN COMMON PSECT DOES NOT GET CAUGHT CORRECTLY	5.3.1.4 M	Jun 86
ASG OPTION REJECTED IF LUN IS GREATER THAN UNITS OPTION	5.3.1.5 M	Sep 86
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ODT		
TASK WITH LARGE NUMBER OF LUNs HANGS IN ODT	5.5.1.1 M	Apr 86
<u>Misc SYS Tasks</u>		
HELP		
HELP /OUT:TTNN: <PARAMETER> DOES NOT WORK	5.7.1.1 N	Apr 86
STRING SYNONYMS DO NOT WORK	5.7.1.2 M	Dec 86

<u>Component</u>	<u>Sequence</u>	<u>Mon/Yr</u>
CDA		
CDA EXITS ABNORMALLY WHEN READING FROM MS:	5.7.2.1 M	Nov 86
PMD/SNAP		
PMD SNAPSHOT FOR I/D SNAPSHOT DUMPS I-SPACE AND NOT D-SPACE	5.7.3.1 M	Apr 86
PMD PUTS OUTPUT IN WRONG PLACE	5.7.3.2 N	Jun 86
RMDEMO		
RMD C PAGE DISPLAY WRONG WHEN CACHING SET TO 4096.	5.7.5.1 M	Jul 86
COT		
COT... ABORTS WITH ODD ADDRESS TRP	5.7.14.1 M	Jul 86
RCT		
RCT DOES NOT REPLACE ALL BAD BLOCKS	5.7.15.1 M	Feb 86
SYSTEM DISK BECOMES SOFTWARE WRITE LOCKED DURING BBR	5.7.15.2 M	Dec 86
DCL		
DCL		
DCL LINK DOES NOT WORK CORRECTLY IN SET DEBUG/EXECUTE MODE	6.1.0.1 M	Mar 86
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DCL "LIBRARY @FILESPEC" DOES NOT WORK	6.1.0.3 M	Apr 86
DCL "SET DE" SHOULD NOT DEFAULT TO SET DEC CRT	6.1.0.4 M	Jun 86
FORTRAN /CHECK REQUIRES /F77	6.1.0.5 M	Jun 86
ADD SUPPORT FOR COBOL-81 /CONDITIONALS QUALIFIED	6.1.0.6 M	Jul 86
DCL SHOULD NOT ACCEPT TERMINAL TYPE RT02 OR RT02C	6.1.0.7 M	Jul 86
DCL SHOW ASSIGNMENTS RETURNS "ILLEGAL FUNCTION" ERROR	6.1.0.8 M	Jul 86
DCL EDIT WITH NULL FILE NAME DOES NOT WORK	6.1.0.9 M	Aug 86
DCL SET PROTECTION DOES NOT WORK WITH FILES STARTING WITH "L"	6.1.0.10 M	Aug 86
SHOW QUEUE/DEVICE/BRIEF FAILS	6.1.0.11 M	Nov 86
SET DEVICE /WRITECHECK TRANSLATES INCORRECTLY	6.1.0.12 M	Nov 86
Documentation		
MCR Operations		
DEFAULT UIC AND FILE PROTECTION	7.1.25.1 N	Nov 86
RSX-11 2780/3780 Protocol Emulator V4.1		
CONDITIONS FOR AUTOMATIC SIGN ON	10.5.1.1 N	Aug 85
DECnet-11M-PLUS V3.0		
DECnet-11M-PLUS PROBLEMS FIXED ON RSX-11M-PLUS LAYERED UPDATE B	10.8.2.1 N	May 86
DECnet-RSX DELUA DEVICE SUPPORT	10.8.2.2 N	May 86
BASIC-PLUS-2 V2.3		
PROBLEM WITH PRINT USING	10.20.1.1 N	Dec 85
BASIC-PLUS-2 V2.3 RSX UPDATE B NOTICE	10.20.1.2 N	Oct 86

<u>Component</u>	<u>Sequence</u>	<u>Mon/Yr</u>
FORTRAN IV/RSX V2.6		
OTS		
LIST-DIRECTED READ	16.1.1.1 N	Dec 85
Update C		
FORTRAN IV PROBLEMS CORRECTED ON UPDATE C	16.1.2.1 N	Jun 86
FORTRAN IV/VAX to RSX V2.7		
INSTALLATION GUIDE/RELEASE NOTES ERRATA	16.2.1.1 N	Jul 86
PDP-11 Symbolic Debugger V2.0		
ANNOUNCING THE PDP-11 SYMBOLIC DEBUGGER V2.0	17.1.1.1 N	Apr 86
DECmail-11 V3.0		
ANNOUNCING A MAJOR RELEASE AND 60-DAY FREE TRIAL OFFER FOR DECmail-11	18.1.1.1 N	Nov 86
WPS-PLUS/RSX V1.0		
ANNOUNCING WPS-PLUS/RSX FOR Micro-11s AND PDP-11s	21.1.1.1 M	Dec 86



Micro/RSX V3.0
MCR
ICM

Seq. No. 2.2.3.12 M

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.ENABLE SUBS, QUIET IGNORES COMMAND LINE FOLLOWING "SUBS" (SPR 11-X91560 RDH)

PROBLEM
STATEMENT:

The Indirect command line .ENABLE SUBS, QUIET does not parse the second parameter. The QUIET is totally ignored.

RESPONSE:

In parsing a .ENABLE or .DISABLE command line, Indirect compares the first option with a table of valid strings. Each entry in the table ends with a NUL character which terminates comparison against that entry. That is, if there are characters appended to the option in the command line, they will not cause a mismatch or a syntax error. After finding a match and processing the option, Indirect tests the next nonblank character. If it is a comma, the table search is executed on the following option, etc. If it is any other character, Indirect assumes that the balance of the command line is a comment and ignores it. In the problem statement, the extra S on the end of SUB yields this result.

The workaround to this problem is to ensure that the options are spelled precisely as they are given in the description of the .ENABLE/.DISABLE directives in the documentation. This also applies to the undocumented use of the SUB short form of SUBSTITUTION.

A future update of Micro/RSX will include changes which will result in a syntax error if the character following an option is not a comma, semicolon, or exclamation point. The latter two symbols are valid comment delimiters. The SUB short form will be documented in a future release of RSX. Allowing abbreviations of the other options will be considered in a future release.

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Micro/RSX V3.0
Batch/Queue Mgr
BPR

Seq. No. 4.1.1.3 M

1 of 1

"BYE" SPAWNED FROM A TASK KILLS BAP0 (SPR 11-X00195P DR)

PROBLEM
STATEMENT:

BPR and QMG report the following messages on the system console:

```
BPR -- *FATAL-Spawn failure (TTTTTT)
QMG -- Unexpected exit processor TTTTTT, aborted job = NNNNNNNNN
```

where "TTTTTT" is the task name of the failing batch processor and "NNNNNNNNN" is the name of the job that was being executed.

RESPONSE:

The following is an example of a batch command procedure that reproduces the problem described:

```
$ JOB
$ RUN task
$ EOJ
```

where "task" spawns BYE at some point. This task exits with an error status because BYE aborts it. Upon detecting the error status, BPR determines the associated virtual terminal should be logged out (in lieu of ON or IF statements being specified). BPR attempts to spawn BYE itself and, unfortunately, does not check if it is already active.

Although it is not a restriction, it is advisable not to spawn BYE explicitly. Instead, use the ON and IF statements to detect errors and take appropriate measures, for instance, terminating the job with a STOP statement.

BPR will be fixed in and a future release of Micro/RSX. Among other things, BPR does check if BYE is already active. To recover, BPR connects to BYE and waits for it to complete.

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Micro/RSX V3.0
Misc SYS Tasks
HELP

Seq. No. 5.7.1.1 M

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STRING SYNONYMS DO NOT WORK (SPR 11-X00311X JF)

PROBLEM
STATEMENT:

String synonyms as documented in the Micro/RSX V3.0 MCR Operations Manual do not work.

RESPONSE:

There is a problem with the way HELP looks for string synonyms. Regular synonyms work correctly, but string synonyms do not. When processing a string synonym, HELP copies the string synonym to an internal buffer, but does not set up the pointer to the buffer correctly. As a result, the entry corresponding to the string synonym is not found in the help file.

This problem will be corrected in the next release of Micro/RSX.

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WPS-PLUS/RSX V1.0
for Micro/RSX V3.0

Seq. No. 21.1.1.1 M

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ANNOUNCING WPS-PLUS/RSX FOR Micro-11s AND PDP-11s

PRODUCT DESCRIPTION

WPS-PLUS/RSX is a document-processing software application that provides Gold Key word processing. WPS-PLUS/RSX runs as a layered product under the RSX-11M-PLUS and Micro/RSX operating systems.

WPS-PLUS/RSX features menu-driven document processing, including word and list processing with math and sort capabilities. WPS-PLUS/RSX editing permits the user to input and correct text without retyping. Editor math allows users to perform mathematical computations on tables of numbers. List processing allows production of many identical or nearly identical documents, including reports, customized letters, and mailing lists. Math and Sort utilities permit the user to manipulate data within the list processing documents.

WPS-PLUS/RSX Spell Verifier and Corrector offers a choice of either American or British dictionaries.

FEATURES

WPS-PLUS/RSX allows the user the following capabilities:

- o Create, edit, and print documents
- o Produce form letters and maintain lists
- o File and retrieve documents by name and number
- o Include data from an RSX application in a document by using the Gold GET command
- o Convert WPS-PLUS/RSX documents to RSX native files
- o Include technical characters and scientific equations in a document
- o Use of change bars and redlining
- o Include diagrams, matrices, VT100 character set equations, composite and multinational characters in a document
- o Verify and correct spelling and capitalization while editing*
- o Use of attributes such as bolding, underlining, etc.

*This feature is only available for systems with instruction and data (I&D) space

Word Processing Capabilities

- o Full screen editing and four directional cursor movement keys
- o User control of margins/tabs/left-right justification, and decimal alignment
- o Create and display wide documents (up to 158 characters)
- o Ten rulers stored for immediate recall
- o Automatic word wrap and printing with ragged or justified right margins
- o Semiautomatic hyphenation
- o Automatic centering/underlining/bolding/uppercasing and double under-scoring with reverse functions capability
- o Subscript/Superscript
- o Date and time stamp
- o Cut and paste to move a copy of text within a document, or from one document to another
- o Cursor movement and text selection by character, word, line, sentence, paragraph or page
- o Search and Search/Replace functions
- o Global Search and Replace functions
- o Go-to-page for movement directly to a specific page in a paginated document
- o User control of pagination

WPS-PLUS/RSX word processing commands allow the user to:

- o Insert headers and footers at top or bottom of each page in document
- o Print multicolumn tables
- o Number pages automatically
- o Calculate automatically with four-function math capability (add, subtract, multiply, and divide)
- o Insert comments that appear only on the screen and not in printed document

WPS-PLUS/RSX includes an Editor Menu which provides for:

- o Automatic pagination
- o Global Search and Replace
- o Selection of abbreviation and library documents to allow insertion of stored words or phrases with a single keystroke

Spell Verifier and Corrector (c)

WPS-PLUS/RSX includes the Spell Verifier and Corrector for verifying and correcting spelling, capitalization or common typing errors. The user can:

- o Access Spell using a Gold Key command while editing a document
- o Verify or correct a single word or selected region of a document
- o Add words to the user's personal data base dictionary

The spelling data base contains over 87,000 words in either American English or British English. These can be used in conjunction with over 1,000 additional user-specific words.

List Processing, Sort, and Math

The user can generate customized letters or reports using:

- o A forms document such as a letter or report
- o A list document which contains records of variable text, such as names and addresses
- o A selection specification which identifies the records to process
- o An output document, which contains the results of list processing

List Processing Features

- o List a document with several records
- o Ability to sort a list document on one or more fields in ascending or descending order
- o Math commands for automatic calculations during List Processing

Two-Dimensional Editor

The Two-Dimensional Editor allows the user to create diagrams, scientific equations, line drawings, charts, matrices and VT100 character set equations.

(c) Spelling System licensed under U.S. Pat. No. 4,580,241 and Canadian Pat. No. 1,203,916, copyright by Houghton Mifflin. All rights reserved. Based upon the American Heritage Dictionary.

WPS-PLUS/RSX V1.0
for Micro/RSX V3.0

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Integrated Filing System

WPS-PLUS/RSX provides an integrated filing system with a file cabinet for each user. Some of the file cabinet features are:

- o Document names up to 50 characters and folder names up to 30 characters
- o Document retrieval by folder and document name or system-assigned number

Help Facility

WPS-PLUS/RSX provides a Help facility that allows the user to obtain additional information on the keyboard layout while in the editor, as well as keyboard layout and technical character set layout while in the Two-Dimensional Editor.

User-Defined Keys

User-defined keys (UDKs) allow users to automate frequently repeated key sequences. A user can invoke UDKs from any WPS-PLUS/RSX menu or form, or while editing a document. The user can store up to 200 characters in a single UDK and up to 100 active UDKs.

WPS-PLUS/RSX Conversion Utilities

The WPS-PLUS/RSX Document Conversion Utilities menu allows users to convert:

- o WPS-PLUS document format to an ASCII file
- o ASCII file to a WPS-PLUS document format
- o WPS-PLUS document format to DECdx format
- o DECdx format to a WPS-PLUS format

NOTE

WPS-PLUS/RSX allows users to convert documents to and from DX format on disk. DECdx/RSX, a separately purchased product, allows users to transfer DX files to remote systems asynchronously. DECnet for RSX-11M-PLUS and Micro/RSX allows users to transfer DX files synchronously.

WPS-PLUS/RSX V1.0
for Micro/RSX V3.0

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SPECIFICATIONS

Minimum Hardware Required

Any valid RSX-11M-PLUS or Micro/RSX operating system configuration with:

- o 5000 blocks of disk space required for installation, of which 3800 blocks must be contiguous
- o 5000 blocks of disk space required for use (permanent), of which 3800 blocks must be contiguous, plus additional disk space to store WPS-PLUS documents
- o CPUs with 22-bit addressing
- o I&D space required for the spell portion of WPS-PLUS/RSX
- o Memory requirements are determined by the number of concurrent users in WPS-PLUS/RSX.

Refer to the following list for memory requirements:

<u>Concurrent Users</u>	<u>Dedicated Memory</u>
2	384KW
3	512KW
6	784KW
11	1024KW

Prerequisite Software

- o RSX-11M-PLUS V3.0 (or later) or Micro/RSX V3.0 (or later) operating systems

Optional Hardware

- o VT100, VT200 terminals
- o DECmate II and III
- o Professional 300 or Rainbow 100 series in terminal emulation
- o LA100, LA210, LA50, LA75
- o LNO1, LNO3
- o LQP02, LQP03
- o LP11

WPS-PLUS/RSX V1.0
for Micro/RSX V3.0

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NOTE

WPS-PLUS/RSX supports only those terminals with Advanced Video Option (AVO). It does not support the VT100 without AVO, DECmate I, or WS78.

Optional Software

- o DECdx/RSX
- o DECnet-11M-PLUS
- o DECnet-Micro/RSX

AVAILABILITY

WPS-PLUS/RSX V1.0 is available from Digital this month. Contact your local Digital account representative for information on purchasing this product.

Micro/RSX V3.0
 CUMULATIVE INDEX
 DECEMBER 1986

This is a complete listing of all articles for Micro/RSX V3.0 and layered products. Missing sequence numbers may pertain to problems unique to other versions of the same product or other major operating systems.

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 modification or because they are not consistent with the design 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>
<u>Micro/RSX V3.0</u>		
<u>SYSGEN</u>		
<u>Autoconfigure</u>		
ACF FAILS TO DETECT FIFTH DZ11	1.1.1.1 N	Jun 86
<u>Distrib Kits</u>		
DAPRES NOT PROPERLY INSTALLED	1.1.2.1 M	Feb 86
IN OPTION.COMD, BRU IS LEFT ACTIVE AFTER FATAL ERROR	1.1.2.2 M	Nov 86
<u>Executive</u>		
<u>Executive</u>		
DISK CACHE FLUSH PARTIAL BLOCK WRITES TO SUPPORT RTEM-11	2.1.0.1 M	Mar 86
<u>Directives</u>		
FAST MAP FACILITY HAS ADDITIONAL RESTRICTION AND ERROR CODE	2.1.1.1 M	Mar 86
ERROR IN EXECUTION OF @/LB:MODULE FROM DCL	2.1.1.2 M	Mar 86

<u>Component</u>	<u>Sequence</u>	<u>Mon/Yr</u>
DEVICE NORMALIZATION OCCURS ON ALL LOGICAL NAME DIRECTIVES	2.1.1.3 M	May 86
TASKS WITHOUT EXTERNAL HEADERS CRASH SYSTEM WITH CRAW\$	2.1.1.4 M	Jun 86
FSS\$ ALWAYS RETURNS SUCCESS	2.1.1.5 N	Jul 86
RESCHEDULED COPIES OF TASK ARE INITIATED WITH WRONG UIC	2.1.1.6 M	Jul 86
SYSTEM CORRUPTION IN DEFAULT UIC	2.1.1.7 N	Sep 86
RPOI RETURNS IE, IDU FROM A VT:	2.1.1.8 M	Sep 86
FEAT\$C DIRECTIVE DOES NOT WORK IN I- AND D-SPACE TASKS	2.1.1.9 M	Oct 86
FAST MAP ROUTINE DOES NOT WORK AS DOCUMENTED	2.1.1.10 N	Nov 86
SHF		
SHUFFLER MAY CAUSE SYSTEM CRASH	2.1.2.1 M	Sep 86
Misc Routines		
UNMAPPED FAST MAP WINDOW DESCRIPTOR CAUSES SYSTEM CRASH	2.1.6.1 M	Aug 86
TASKS RUN WITH /UIC SWITCH GET WRONG UIC	2.1.6.2 M	Oct 86
Data Caching		
MOUNTING A DU: DEVICE MAY CAUSE CRASH IF ANOTHER IS CACHING	2.1.7.1 M	Jun 86
CACHE REGION NAME	2.1.7.2 M	Aug 86
MCR		
Internal CMDS		
ASN COMMANDS WITH NULL LOGICALS CAUSE SYSTEM CRASH	2.2.1.1 M	Apr 86
SET /CACHE EXTENT SIZE = 0 CRASHES SYSTEM	2.2.1.2 M	Jun 86
CACHE READ-AHEAD LESS THAN VIRTUAL CAN CRASH SYSTEM	2.2.1.3 M	Jul 86
INS		
NEW "TASK IMAGE I/O ERROR" MESSAGE FOR DEVICES	2.2.2.1 M	Apr 86
DELETING THE DISK IMAGE OF AN INSTALLED TASK	2.2.2.2 R	Jul 86
INSTALL, RUN, REMOVE WINDOW ALLOWS OTHER TASKS TO ACTIVATE IT	2.2.2.3 M	Sep 86
Indirect, ICQ, ICM, ICP		
LOGICAL NAME AND SUBSTITUTION ERRORS IN INDIRECT	2.2.3.1 M	Jan 86
INDIRECT PROBLEMS IDENTIFIED ON Micro/RX V3.0	2.2.3.2 M	Feb 86
SPECIAL SYMBOL <UIC> SOMETIMES ERRONEOUS IN NAMED MODE	2.2.3.3 M	Feb 86
INVALID CHARACTERS IN SUBSTITUTION SYMBOL NAMES	2.2.3.4 M	Mar 86
24-HOUR MAXIMUM FOR .DELAY DIRECTIVE	2.2.3.5 M	Mar 86
INDIRECT COMMAND .SETT <ERSEEN> LEAVES IT FALSE	2.2.3.6 M	Mar 86
.EXIT DIRECTIVE WITHIN BEGIN-END BLOCK	2.2.3.7 M	Mar 86
ERASING LOCAL SYMBOLS WITH DOLLAR-SIGN NAMES	2.2.3.8 M	Apr 86
CORRUPTED BEGIN-END BLOCK POINTERS IN LOCAL SYMBOL TABLE	2.2.3.9 M	Apr 86
DIRECTIVE .ASK WITH TIME-OUT CANNOT CHECKPOINT	2.2.3.10 M	Aug 86
IMBEDDED PERIODS NOT ALLOWED IN .TESTPARTITION	2.2.3.11 M	Aug 86
.ENABLE SUBS, QUIET IGNORES COMMAND LINE FOLLOWING "SUBS"	2.2.3.12 M	Dec 86
Drivers		
DDDRV, DUDRV, DLDRV		
DDDRV TIMES OUT WHILE COPYING LARGE FILES	3.1.1.1 M	Mar 86
DLDRV's ERROR RECOVERY SHOULD MAKE COMPLETE DRIVE-STATUS CHECK	3.1.1.2 M	Mar 86
DUDRV's LBN RANGE CHECKING IS INADEQUATE	3.1.1.3 M	Jul 86

<u>Component</u>	<u>Sequence</u>	<u>Mon/Yr</u>
MUDRV, MSDRV		
MUDRV DOES NOT SUPPORT MULTIPLE-DENSITY TAPE DRIVES	3.1.2.1 M	Mar 86
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Component

Sequence

Mon/Yr

WPS-PLUS/RSX V1.0

ANNOUNCING WPS-PLUS/RSX FOR Micro-11s AND PDP-11s

21.1.1.1 M

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Software Product Descriptions (SPDs)

Below is a list of the revised SPDs which appear on the following pages:

12.68.03 IEX-RSX-Driver, Version 2.1
12.72.02 DRX11-C/RSX Driver, Version 4.7
13.33.01 ADF01/RSX Subroutine Library, Version 2.1

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Software Product Description

PRODUCT NAME: IEX-RSX-Driver, Version 2.1

SPD 12.68.03

DESCRIPTION

The IEX-RSX-Driver allows programs written in MACRO-11, FORTRAN-77, FORTRAN IV and BASIC-PLUS-2 or any other high level language with a compatible subroutine calling sequence to communicate with devices attached to an IEEE STD. 488 bus. The driver supports connection to the IEEE bus through an IEQ11-A or IEU11-A interface when IEQ11-A is used with Q-bus PDP-11s and IEU11-A is used with UNIBUS PDP-11s. The communication with the interface is done through the standard RSX QIO mechanism.

The IEQ11-A and IEU11-A interfaces conform to the standards of the IEEE STD. 488 (1978) Programmable Interface Bus system. The interfaces are compatible with both ANSI MC1.1 and IEC 625.1 Standards. All IEEE bus features of the interface are supported by the driver.

An IEEE bus must have one device which is designated as system controller. In addition at any given time one device must be controller-in-charge. The IEX-RSX-DRIVER supports all combinations of these features.

Each interface contains two fully independent bus controllers. These controllers can be attached to the same IEEE bus or connected to two separate IEEE busses. The driver treats the two controllers as two units, each with its own controller. The driver allows any unit to be attached to a single task or shared between several tasks.

IEEE bus commands are transferred between the PDP-11 and the IEEE bus via processor requests. Data streams can be transferred via DMA. A maximum data transfer size is 64k-1 bytes. Memory addresses of 16, 18 and 22 bits are supported on both UNIBUS and Q-BUS PDP-11s.

Features

The driver supports the following IEEE-488 hardware capabilities:

- Controller (C1.C2.C3.C4.C5)
- Talker and Extended Talker (T5.TE5)
- Listener and Extended Listener (L3.LE3)
- Automatic Source Handshake (SH1)
- Automatic Acceptor Handshake (AH1)
- Service Request (SR1)

- Remote/Local (RL1)
- Parallel Poll (PP1.PP2)
- Device Clear (DC1)
- Device Trigger (DT1)

The following driver software functions are available for control of the IEEE-488 interface.

General Functions:

- Write a block of data with optional EOI (End or Identify at last byte)
- Read a block of data with optional termination on byte count, match character, or EOI
- Send IEEE-488 Bus Commands *
- Perform a service request **
- Perform Serial Polling *
- Perform Parallel Polling *
- Pass Control to another IEEE-488 Controller *
- Change Timeout Duration
- Recognize external events including:
 - Service Requests *
 - Address Changes **
 - Device Clear **
 - Remote/Local Change **
 - Device Trigger **
 - Parallel Poll Configuration **
 - Receive Control **

System Controller Functions:

- Enable/Disable Remotes
- Interface Clear
- * Feature only applicable for Controller-in-Charge
- ** Feature only applicable if not Controller-in-Charge

If a request is issued to a unit that is controller-in-charge, then the driver will set the unit to the correct control state

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and the correct address state, if necessary, before executing the request. For data transfers involving only one other device, the address of the other device can be specified in the data transfer QIO. The driver will then automatically set that device to the appropriate address state. This mechanism is intended to reduce the number of QIOs required for a data transfer.

Simplified User Interface

For users not familiar with the QIO mechanism a general subroutine package is provided. This package is intended for use with higher level languages, such as FORTRAN and BASIC.

This package contains the following entry points:

IESTRT	- Unit initialization
IEPOLL	- Initialize for serial polling
IESEND	- Send data to one or more devices
IERECV	- Receive data from a device
IERQSV	- Make a service request
IECMD	- Perform bus control function
IEWFE	- Wait for event

MINIMUM HARDWARE REQUIRED

Any valid RSX-11M, RSX-11M-PLUS, or Micro/R SX system based on a Q-bus PDP-11 or MicroPDP-11 with:

- At least one IEQ11-A

or

Any valid RSX-11M or RSX-11M-PLUS system based on a UNIBUS PDP-11 with:

- At least one IEU11-A

And

- Hardware capable of reading one of the distribution media upon which this product is offered

Note: An RX50 Disk drive is required with a MicroPDP-11 system.

- A minimum of 8KB of user memory for the IEX-RSX-Driver
- At least 800 blocks of disk space

OPTIONAL HARDWARE

- Up to 3 additional IEQ11-A or IEU11-A controllers (a maximum of 8 IEEE-488 bus controllers)

PREREQUISITE SOFTWARE

One of the following operating systems:

RSX-11M

RSX-11S, Version 4.2

RSX-11M-PLUS

Micro/R SX (including Micro/R SX Advanced Programmer's Kit)

Refer to the appropriate Optional Software Cross Reference Table RSX-11M (SPD 20.98.xx), RSX-11M-PLUS

(SPD 20.99.xx) or Micro/R SX (SPD 20.95.xx) for the required versions.

OPTIONAL SOFTWARE

IEX-RSX-Driver may be used with any of the following compilers:

On RSX-11M or RSX-11M-PLUS Systems

- BASIC-PLUS-2
- FORTRAN IV/R SX
- FORTRAN-77/R SX

On Micro/R SX Systems

- Micro/R SX FORTRAN-77
- Micro/R SX BASIC-PLUS-2

SOFTWARE INSTALLATION

CUSTOMER INSTALLED

The IEX-RSX-Driver is a software product engineered to be installed by the customer.

SOFTWARE WARRANTY

Warranty for this software product is provided by DIGITAL with the purchase of a license for the product as defined in the Software Warranty Addendum of this SPD.

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ADDITIONAL SERVICES

- Self Maintenance Service (Not available in all countries)
- Software Problem Report Service (SPR)
- Automatic Software Product update service upon new Product release

SOFTWARE OPTIONS CHART

The following key (3, D, G, H, M, Y, Z) represents the distribution media for the product and must be specified at the end of the order number, e.g. QJS37-XG sources on TU58 DECtape II Cartridge.

- | | |
|---------------------------------|------------------------------|
| 3 = RX50 Floppy Diskette | M = 9-track 1600 BPI Magtape |
| D = 9-track 800 BPI Magtape | Y = RX01 Floppy Diskette |
| G = TU58 DECtape II Cartridge * | Z = No hardware dependency |
| H = RL02 Disk Cartridge | |

* The TU58 is to be used in a stand-alone, lightly loaded environment. If used as a file device in a heavily loaded environment, it can degrade system performance.

OPTIONS	Micro/R SX SYSTEMS	RSX-11M/S RSX-11M-PLUS SYSTEMS
Single-use source license, sources, documentation, support services	QJS37-X3	QJS37-XD QJS37-XG QJS37-XH QJS37-XM QJS37-XY
Single-use license-only option, no sources, no documentation, no support services	QJS37-DZ	QJS37-DZ
Documentation-Only Kits	QJS37-GZ	QJS37-GZ

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Software Product Description

PRODUCT NAME: DRX11-C/RSX Driver, Version 4.7
Device Driver For RSX-11M/S, RSX-11M-PLUS and Micro/RSX

SPD 12.72.02

DESCRIPTION

The DRX11-C/RSX Driver provides the user with the capability to access the DRU11-C or DRQ11-C double buffer DMA interface. The DRU11-C is designed for UNIBUS based systems, the DRQ11-C for Q-BUS based systems. Tasks written in MACRO-11 or FORTRAN can communicate with the hardware interface under the RSX-11M/S, RSX-11M-PLUS or Micro/RSX Operating System. The communication is implemented through the standard RSX QIO mechanism.

Features

- Supports up to eight interfaces
- Supports word transfer
- Supports single block transfer
- Supports multiple block transfer - The user establishes two buffers in main memory and the interface switches automatically between them. The contents of one buffer are processed while the other buffer is being filled. Thus, data can be transferred continuously.
- Supports reading and writing of status and function bits
- Supports special interrupt processing - If unsolicited interrupts are allowed, these user-defined interrupts are handled by user written routines.
- Supports QIO Interface - Provides the functionality described above through direct access to the driver with the QIO\$ or QIOW\$ Executive service. The user therefore must be familiar with the QIO calling procedures, either from MACRO-11 and/or FORTRAN.

Performance

The highest transfer rate that can be achieved depends on the way the incoming data are saved. The maximum transfer rate that can be achieved are 300 KWords/sec.

If the DRU11-C or DRQ11-C is used as an interconnection device to another DRE11-C or DRU11-C or DRQ11-C interface, the highest transfer rate has to be divided by

two (DRE11-C is the appropriate double buffer DMA interface for VAX UNIBUS systems, controlled by the DRX11-C/VMS Driver).

MINIMUM HARDWARE REQUIRED

For DRU11-C (M8729):

Any valid UNIBUS based RSX-11M/S or RSX-11M-PLUS Operating System Configuration and at least one DRU11-C interface.

For DRQ11-C (M7193):

Any valid Q-BUS based RSX-11M/S Operating System configuration with not more than 124K words memory and at least one DRQ11-C(M7193) interface.

For DRQ11-C (M7549):

Any valid Q-BUS based RSX-11M/S, RSX-11M-PLUS or Micro/RSX Operating System configuration and at least one DRQ11-C (M7549) interface.

- Hardware capable of reading one of the distribution media upon which this product is offered
- At least 1300 blocks of disk space
- Approximately 8 KB of user memory for the DRX11-C driver

Note: There are two different DRQ11-C Modules available for Q-BUS systems, one for 18-bit addressing (M7193) and the other for 22-bit addressing (M7549).

OPTIONAL HARDWARE

- ADF01-B High speed Analog-Digital-Coverter with 16 channels (along with the ADF01/RSX Subroutine Library optional software)
- AAF01-A High speed Digital-Analog-Coverter with 16 channels (along with the AAF01/RSX Subroutine Library optional software)
- M7194 Differential Signal Conditioning Module to exceed the interconnecting cable length up to 300 m.

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- M5028 Optical Isolated Signal Conditioning Module with parity check possibility to exceed the interconnecting cable length up to 300 m.

PREREQUISITE SOFTWARE

One of the following operating systems:

- RSX-11M
- RSX-11S, Version 4.2
- RSX-11M-PLUS
- Micro/RSX (including Micro/RSX Advanced Programmer's Kit)

Refer to the appropriate Optional Software Cross Reference Tables RSX-11M (SPD 20.98.xx), RSX-11-PLUS (SPD 20.99.xx) or Micro/RSX (SPD 20.95.xx) for the required versions.

OPTIONAL SOFTWARE

One of the following operating systems:

- FORTRAN IV/RSX
- FORTRAN-77/RSX
- Micro/RSX FORTRAN-77 and
 - ADF01/RSX Subroutine Library (along with ADF01-B optional hardware)
 - AAF01/RSX Subroutine Library (along with AAF01-A optional hardware)

SOFTWARE INSTALLATION

CUSTOMER INSTALLED

The DRX11-C/RSX Driver is a software product engineered to be installed by the customer.

SOFTWARE WARRANTY

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ADDITIONAL SERVICES

- Self Maintenance Service (Not available in all countries)
- Software Problem Report Service (SPR)
- Automatic Software Product update service upon new Product release

SOFTWARE OPTIONS CHART

The following key (3, D, H, M, Y, Z) represents the distribution media for the product and must be specified at the end of the order number, e.g., QJS33-XH = sources on RL02.

3 = RX50 Floppy Diskette
D = 9-track 800 BPI Magtape
H = RL02 Disk Cartridge
M = 9-track 1600 BPI Magtape
Y = RX01 Floppy Diskette
Z = No hardware dependency

OPTIONS	Micro/RSX SYSTEMS	RSX-11M/S RSX-11M-PLUS SYSTEMS
Single-use source license, sources, documentation, support services	QJS33-X3	QJS33-XD QJS33-XM QJS33-XH QJS33-XY
Single-use license-only option, no sources, no documentation, no support services	QJS33-DZ	QJS33-DZ
Documentation-Only Kit	QJS33-GZ	QJS33-GZ

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Software Product Description

PRODUCT NAME: **ADF01/RSX Subroutine Library, Version 2.1**
for RSX-11M/S, RSX-11M-PLUS and Micro/RSX

SPD 13.33.01

DESCRIPTION

The ADF01/RSX Subroutine Library provides the user of the FORTRAN language with a simple full functionality interface to the ADF01 Data Acquisition Subsystem connected to a DRU11-C or DRQ11-C DMA interface.

The ADF01 is a high speed, multichannel analog data acquisition subsystem. It is connected to a PDP-11 UNIBUS via the DRU11-C interface or to a Q-BUS via the DRQ11-C interface. The device has eight differential input channels. With the AMF01 multiplexer board the number of channels can be extended to 64 single ended or 32 differential channels. Conversion on a selected channel takes place on receipt of a clock pulse which can be programmed to come from an external input or from an internal programmable clock. For each conversion, the gain and channel number are contained in one of 1,024 entries in the ADF01 control table. The control table can thus be set up to perform a large, fixed sequence of conversion operations.

The Subroutine Library contains calls such as:

INIT	initialize system
REASTA	read status of the device
RESET	reset device

To enable/disable functions:

SETSBE	enable sequence break
CLRSBE	disable sequence break
ENAECE	enable external clock
CLRECE	disable external clock
ENACTT	enable control table transfer
CLRCTT	disable control table transfer

To load or read Registers:

REACTA	read from control table address register
LOACTA	write into control table address register
SETPCR	load programmable clock register
LOACWT	load control word registers

REACWT	read control word registers
SETDAC	load dac data register

To start conversions and convert values:

CONVER	start adc conversion
REAADC	convert adc value into volt
UNSOL	connect to unsolicited interrupt

To load sequence Timer Register (with AMF01)

SETSTR	enable sequence timer
DISSTR	disable sequence timer

In addition to the subroutine above, the package includes a set of command files to generate a Control Word Table, to link Control Table and User Program and to build the ADF01/RSX Subroutine Library. The package also contains programs to calibrate the system and to run a DAC-ADC loopback test, functionally identical to TEST17, TEST20, TEST21, TEST22 of the standalone diagnostic of the ADF01 Data Acquisition Subsystem.

Performance

The conversion rate depends highly on the PDP-11 and the RSX-11M operating system configuration and on the way the incoming data are saved. A transfer rate of 300 K words/sec can be achieved with the standard DRX11-C/RSX Driver (with no burst mode support).

MINIMUM HARDWARE REQUIRED

Any valid RSX-11M, RSX-11S, RSX-11M-PLUS or Micro/RSX Operating System configuration

- Hardware capable of reading one of the distribution media upon which the product is offered
- At least 700 blocks of disk space
- ADF01 Data Acquisition Subsystem for DRU11-C or DRQ11-C Interface
- DRU11-C or DRQ11-C Interface

OPTIONAL HARDWARE

- Conditioning module for the interface to allow operation up to 300 meters from the host.

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PREREQUISITE SOFTWARE

One of the following operating systems:

- RSX-11M
- RSX-11S, Version 4.2
- RSX-11M-PLUS
- Micro/RSX

And one of the following compilers:

- FORTRAN IV/RSX
- FORTRAN-77/RSX
- Micro/RSX FORTRAN-77

And

- DRX11-C/RSX Driver

Refer to the appropriate Optional Software Cross Reference Tables RSX-11M (SPD 20.98.xx), RSX-11M-PLUS (SPD 20.99.xx) or Micro/RSX (SPD 20.95.xx) for the required versions.

OPTIONAL SOFTWARE

None

SOFTWARE INSTALLATION

CUSTOMER INSTALLED

ADF01/RSX Software Library is a software product engineered to be installed by the customer.

SOFTWARE WARRANTY

Warranty for this software product is provided by DIGITAL with the purchase of a license for the product as defined in the Software Warranty Addendum of this SPD.

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All binary licensed software, including any subsequent updates, is furnished under the licensing provisions of DIGITAL's Standard Terms and Conditions of Sale, which provide in part that the software and any part thereof may be used on only the single CPU on which the software is first installed, and may be copied, in whole or in part (with the proper inclusion of the DIGITAL copyright notice and any DIGITAL proprietary notices on the software) only for use on such CPU.

All source licensed software is furnished only under the terms and conditions of a separate Software Program Sources License Agreement between Purchaser and DIGITAL.

Options with no support services are only available after the purchase of one supported license.

A single-use license-only is a license to copy the software previously obtained under license.

Sources and/or listings options are only available after the purchase of at least one supported license and after a source license agreement is in effect.

No binary is separately available from DIGITAL for this software product. The source and/or listing options(s) is available for use only on the single CPU on which it is first installed, and after a source license is in effect.

ADDITIONAL SERVICES

- Self Maintenance Service (Not available in all countries)
- Software Problem Report Service (SPR)
- Automatic Software Product update service upon new Product release

SOFTWARE OPTIONS CHART

The following key (3, D, H, M, Y, Z) represents the distribution media for the product and must be specified at the end of the order number, e.g. QJ059-XH = sources on RL02.

3 = RX50 Floppy Diskette
D = 9-track 800 BPI Magtape
H = RL02 Disk Cartridge

M = 9-track 1600 BPI Magtape
Y = RX01 Floppy Diskette
Z = No hardware dependency

OPTIONS	Micro/RSX SYSTEMS	RSX-11M/S RSX-11M-PLUS SYSTEMS
Single-use source license, sources, documentation, support services	QJ059-X3	QJ059-XD QJ059-XM QJ059-XH QJ059-XM
Single-use license only option, no sources, no documentation, no support services	QJ059-DZ	QJ059-DZ
Documentation-Only Kit	QJ059-GZ	QJ059-GZ

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SOFTWARE PERFORMANCE REPORT (SPR) SUBMISSIONS

Digital Equipment Corporation guarantees a response to every SPR submitted by DIGITAL specialists and customers who purchase software product service agreements.

Blank SPR forms are available upon request in desired quantities from SPR Administration, P.O. Box F, Maynard, MA 01754, or your local DIGITAL office.

Inquiries on the progress of submitted SPRs should be directed to your local DIGITAL office or SPR Administration at (617) 493-4722.

An SPR Answer Survey Card is enclosed with each SPR response. Please complete the survey card; it provides essential feedback for monitoring the quality of our SPR responses.

Completing an SPR Form

Complete the entire form by either typing or printing clearly. Remove "Customer File Copy" for your records. Leave carbon in tact.

Include customer name and **complete** mailing address.

To expedite the processing of your SPR, enter your **Customer Number** in the space provided. This number is located in the upper left-hand corner of your Dispatch label. It can also be obtained from your local DIGITAL office or by calling SPR Administration at (617) 493-6683.

If you do not want your SPR to be published, check the "DO NOT PUBLISH" box on the SPR form. However, if the SPR is determined to be of universal value and it does not describe a security problem, DIGITAL may elect to publish it. For SPRs which describe security problems, it is imperative that the "DO NOT PUBLISH" box be marked.

Describe one problem per SPR form. If an SPR is submitted with more than one problem, it can lengthen the turnaround time.

State the problem clearly. If necessary, summarize the problem, then describe in detail.

Include all the information needed to reproduce the problem. The easiest problems to fix are those reported in statements similar to the following: if you do X, Y happens when Z should.

State all version numbers and all inserted patches. The problem can be fixed sooner if the version is known. Please include the operating system version even on operating system SPRs, since operating system bugs sometimes manifest themselves as "bugs" in other programs. A statement of patches inserted in the relevant software is also helpful. State the type of terminal or work station on which the software is running, e.g., VT100, VT220, PRO 350, DECmate.

Include as much information as possible; too much information is better than not enough. Send all information in machine-readable format if it occupies more than half a page. Please include the following:

1. Program causing the problems
2. All necessary auxiliary files, such as DBMS or LIBRARY files
3. Assembly switches which are on (if applicable)
4. Switches handed to the software, since different switches cause different sections of the code to be executed
5. All necessary run-time files for language run-time problems
6. A directory listing of media, when included; label media carefully

SUGGESTIONS FOR SUBMITTING TAPES WITH SPRs

To insure timely processing of SPRs submitted with tapes, please follow the suggestions below:

1. Use either a floppy or a magnetic tape.
2. If a magnetic tape is used, it should be either 800, 1600, or 6250 bpi.
3. Include a directory with each tape submitted.
4. Label each tape with the following information:
 - a. Customer name
 - b. Tape format
 - c. bpi
 - d. Track
 - e. Preprinted number of the SPR submitted with the tape
5. Remove from the tape any unnecessary or confidential files.

Thank you.

SOFTWARE PROBLEMS OR ENHANCEMENTS

Questions and problems regarding, 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

United States	Corporate Administrative Services Group P.O. Box F Maynard, MA 01754
Canada	Digital Equipment of Canada, Ltd. P.O. Box 13000 Kanata, Ontario Canada, K2K 2A6
Mexico	Digital Equipment de Mexico S.A. de C.V. Apartado Postal 12-1009 Mexico 12, O.F. Mexico
Puerto Rico	Digital Equipment Latin America P.O. Box 11038 Fernandez Juncos Station Santurce 00910 Puerto Rico
Australia, New Zealand	Digital Equipment Aust Pty Ltd 754 Pacific Hwy 1st floor M/SSNH/B-1 Chatswood, New South Wales 2067 Australia
Brazil	Digital Equipment Comercio e Industria Ltda. Avenida Augusto Severo, 156-A 20021 Rio de Janeiro, RJ Brazil
China	Digital Equipment Hong Kong Ltd. 5-7th Floor Intercontinental Plaza 94 Granville Road Tsimshatsui East Kowloon Hong Kong
Remainder of General International Area (GIA)	Digital Equipment Corp. General International District - SWS 100 Nagog Park Acton, MA 01720-3499 United States
United Kingdom, Bahrein, Egypt, Iraq, Jordan, Kuwait, Lebanon, Libya, Qatar, Oman, Saudi Arabia, Syria, United Arab Emirates, Yemen Arab Republic	Digital Equipment Co. Ltd. Jays Close Basingstoke, Hampshire RG22 4DE England
France	Digital Equipment France Zone Industrielle Bois de L'Epine 11 Avenue Joliot Curie BP 202 91007 Evry Cedex France

AREAS COVERED**SPR CENTER**

Italy	Digital Equipment S.p.A. Viale Fulvio Testi, 11 Ang. Via Gorki 105 1-20092 Cinisello Balsamo Milan Italy
Japan	Nihon Digital Equipment Corp. Sunshine 60, P.O. Box 1135 1-1 Higashi Ikebukuro 3-Chome, Toshima-Ku, Tokyo, 170 Japan
Belgium, Luxemburg	Digital Equipment N.V./S.A. Rue De L'Aeronef 1 B-1140 Brussels Belgium
Holland	Digital Equipment B.V. Kaap Hoorndreef 38 NL-3563 AV Utrecht Holland
Sweden	Digital Equipment AB SPR Admin. M-B Duff/CSC Allen 6 S-172 89 Sundbyberg Sweden
Denmark	Digital Equipment Corp. A/S Sandtoften 9 DK-2820 Gentofte Denmark
Finland	Digital Equipment Corp. OY Box 16 02201 ESPOO Finland
Norway	Digital Equipment Corp. A/S Ammerudveien 22 N-0958 Oslo 9 Norway
Austria, East Germany, West Germany, Poland, Hungary, Rumania, Czechoslovakia, Russia, Bulgaria	Digital Equipment Corp. GmbH SPR Centre - D2 Freischuetzstrasse 91 8000 Muenchen 81 West Germany
Israel	Digital Equipment Ltd. Digital House Acadia Junction Herzlia 46 733 Israel
Greece, Portugal, Spain, Switzerland, Yugoslavia, (Morocco, Algeria, Tunisia, Cyprus, Turkey, Malta)	Digital Equipment Corp. AG Kanalstrasse 21 CH-8152 Glattbrugg (Zurich) Switzerland

DIGITAL EQUIPMENT COMPUTER USERS SOCIETY

BENEFITS OF BELONGING

The Digital Equipment Computer Users Society (DECUS) is one of the largest and most respected users groups in the computer industry today. Membership in DECUS, which is free and voluntary, provides the individual user with information and services not found anywhere else.

DECUS provides an environment where users of Digital Equipment Corporation products can share information with other users and with DIGITAL. Members can find out the latest news on DIGITAL's hardware, software, and educational products. The feedback exchange with DIGITAL allows the users of DIGITAL's products to have a voice in the company's future.

Founded in 1961, DECUS now has three autonomous areas worldwide- DECUS U.S., DECUS Europe, made up of eight independent chapters, and DECUS GIA (General International Area), made up of four independent chapters. DECUS services and activities are shared between these chapters through mutual agreements.

All DECUS services promote the exchange of information in a noncommercial environment. Included in these services are:

Special Interest Groups (SIGs)

These groups, formed around an area of common interest, exist for a variety of hardware, operating systems, languages, applications, and marketing areas. Participation in these groups allows fellow users to exchange information and share technical expertise in the areas of most interest to the users.

Local Users Groups (LUGs) and National Users Groups (NUGs)

LUGs and NUGs are licensed groups of individuals who gather to share information with other users on a periodic basis. Not only do they have common professional interest, but they also have geographic and cultural ties. DIGITAL representatives attending these meetings often unveil new products and services and supply updates on existing policies and procedures.

Symposia

DECUS holds symposia each year in the different chapters, two per year in the U.S. These meetings provide a unique opportunity for users with a wide spectrum of experience to meet for up to five days of intensive technical exchange. Symposium activities include workshops, clinics, panels, tutorials, and formal paper presentations. DIGITAL participates in symposia by sending Product Group managers and developers to discuss strategies, products, problems, and solutions.

Publications

The flow of information among users, as well as between users and DIGITAL, is the primary goal of DECUS. Various publications generated by DECUS support this communication. They include chapter newsletters and *The Proceedings*, a technical volume published after each symposium. DECUS also publishes Special Interest Groups' newsletters that provide information pertaining to specific DIGITAL products.

Program Library

The DECUS Program Library is the main vehicle for the exchange of software among users of all DIGITAL systems. The Library contains over 1000 software programs written and voluntarily submitted by users. These programs include compilers, editors, utilities, numerical and statistical functions, as well as games and graphic routines. The Library publishes an annual software catalog that lists and describes all the DECUS programs available to all users for a minimal charge.

You are cordially invited to join over 60,000 other users of DIGITAL products around the world and begin to share your experiences, both successes and problems.

For more information, contact the appropriate DECUS chapter office listed here.

DECUS CHAPTER OFFICES — WORLDWIDE

DECUS U.S.

DECUS, U.S. Chapter
219 Boston Post Road (BPO2)
Marlborough, Massachusetts 01752
U.S. Activities: (617) 480-3259 (3302)
Library: (617) 480-3521
Finance and Administration: (617) 480-3634

DECUS Europe

DECUS At Large (in Europe)
C.P. 510
CH-1213 PETIT-LANCY 1/GE
Switzerland

DECUS Denmark
Digital Equipment Corp. A/S
Sandtoften 9
DK-2820 Gentofte
Denmark

DECUS France
BP. 136
F-91004 EVRY CEDEX

DECUS Holland
KaaP Hoorndreef 38
NL-3563 AV UTRECHT
The Netherlands

DECUS Muenchen
Freischuetzstrasse 91
D-8000 MUENCHEN 81
Federal Republic of Germany

DECUS Italia
Viale Fulvio Testi 11
I-20092 CINISELLO BALSAMO

DECUS Norway
Digital Equipment Corp. A/S
Ammerudveien 22
N-0958 Oslo 9
Norway

DECUS Sweden
S-172 89 SUNDBYBERG
Sweden

DECUS U.K., Ireland and
Middle East
P.O. Box 53
READING, RG2 OTW
U.K.

DECUS Switzerland
Schaffhauserstrasse 144
8302 Kloten
Switzerland

DECUS GIA (General International Area)

DECUS Australia
Northern Tower, Chatswood Plaza
Railway Street
Chatswood, New South Wales 2067
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Phone: (02) 412.5237

DECUS Canada
100 Herzberg Road
P.O. Box 13000
Kanata, Ontario K2K 2A6
Canada
Phone: (613) 592-5111, ext. 2115

DECUS Japan
Nihon Digital Equipment KK
Sunshine 60, P.O. Box 1135
1-1, Higashi Ikeburo 3-Chome
Toshima-ku, Tokyo 170
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