RT-11

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THE SOFTWARE DISPATCH

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RT-11 SOFTWARE DISPATCH

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The RT-11 Software Dispatch complements the RT-11 Software Dispatch Review. 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 RT-11 SOFTWARE DISPATCH

BASIC-11/RT-11 V2
CTS-300 V6
DECnet-RT V1.1
FMS-11/RT-11 V1.1
FORTRAN GRAPHICS PACKAGE V1.1
FORTRAN/RT-11 LAB Extensions V1
FORTRAN IV/RT-11 V2.5
GAMMA-11 F/B V3
LSP-11 V1.1
MSB11 V1
MSB/FORTRAN IV V1
MU BASIC-11/RT-11 V2
PLOT 11/RT-11 V1.1
RT-11 V4
RT-11 2780/3780 Protocol Emulator V4
SSP-11 V1.2

DISTRIBUTION

The RT-11 Software Dispatch is directed to one software contact for each software product. No mailing will be made to addresses without a software contact name. **Address change requests should be sent to the nearest DIGITAL field office. Include the new address and mailing label from the most recently received publication.**

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Eleanor F. Hunter, Editor
Ann Owens, Associate Editor

TABLE OF CONTENTS

	SEQ. NO.	PAGE
SPR USER LETTER		1
RT-11 V4.0		
MONITOR PATCHES		
UPDATES TO MONITOR FILES	1.1.18 M	3
SYSTEM UTILITIES		
DUP.SAV		
/V WITH NO DEVICE SPECIFICATION GIVES WRONG ERROR MESSAGE	7.2.10 M	9
DIR.SAV		
LOSS OF LAST PRINT CHARACTER IN DIRECTORY LISTING	7.3.3 M	11
RESORC.SAV		
PROBLEM WITH IDENTIFYING 11/23 PROCESSOR	7.5.3 M	13
FILEX.SAV		
RECORDS DROPPED BY FILEX	7.11.4 M	15
DOCUMENTATION		
RT-11 SYSTEM RELEASE NOTES		
INCORRECT DUP CUSTOMIZATION PATCHES	11.2.4 N	17
RT-11 SOFTWARE SUPPORT MANUAL		
ERROR IN DESCRIPTION OF .DRSET MACRO	11.9.3 N	19
FMS-11/RT-11 V1.1		
FRED V1.1		
ZERO IMPURE AREA SIZE PROBLEM	33.3.1 M	21
APL-11 V2.0		
PACKAGE NOTES		
APL IS AVAILABLE IN THE DECUS LIBRARY	38.1.1 N	23
FORTRAN IV V2.5		
COMPILER		
THE COMPILER GENERATES INCORRECT CODE FOR EQUIVALENCED ARRAYS (PAT 12)	45.1.4 M	25
OTS		
FPU DOUBLE PRECISION SINE/COSINE MODULE ERRORS (PAT 13)	45.2.10 M	29
CTS-300 V06		
CORRECTION TO TSD/XMTSD	51.18.04 M/51.20.07 M	33
XMTSD HANGS WHEN LP IS OFF-LINE	51.20.06 M	37
GAMMA-11 V3.0		
ISOMETRIC DISPLAY IMAGES USE INCORRECT INTENSITY LEVELS	54.1.3 M	41
RT-11 CUMULATIVE INDEX		45
DIGITAL EQUIPMENT COMPUTER USERS SOCIETY (DECUS)		53

SPR USER LETTER

Submitted by Sheila Hatchell, 8/11 Administration

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

How to Make the Best Use of the SPR Form

What We Can Do for You:

1. Blank SPR forms are returned with each SPR acknowledgement and are available upon request in the desired quantities through the SPR Administration (P.O. Box F) and your local office/SPR Center.

2. Copies of the SPR acknowledgement and answer are sent to the appropriate DIGITAL Office/SPR Center for their information.

3. STATUS FOR SUBMITTED SPRs IS PROVIDED UPON REQUEST.

4. SPRs marked PROBLEM/ERROR will have a response for DIGITAL SUPPORTED products. These SPRs should refer to suspected deficiencies in the software.

5. SPRs marked SUGGESTION are forwarded to the pertinent software group for information purposes, and are responded to at their discretion.

What You Can Do for Us:

1. Fill out the form completely either by typing or printing clearly. **PLEASE INCLUDE YOUR SOFTWARE SERVICE CUSTOMER NUMBER IN THE ADDRESS BOX.**

2. Limit only one problem per SPR form. Several problems on an SPR can lengthen the turnaround time.

3. WHENEVER POSSIBLE, SUBMIT AN SPR WITH ATTACHMENTS, SUCH AS MACHINE READABLE DATA, DETAILED INSTRUCTIONS ON HOW TO REPRODUCE THE PROBLEM, PROGRAM AND/OR DATA FILES, LISTINGS, AND CONSOLE LOG.

4. It would be helpful to all concerned if problems with patches are reported as soon as possible.

5. For security SPRs, it is imperative that the DO NOT PUBLISH box be marked.

6. It would be helpful if tapes submitted with SPRs are labeled (track and density), and have a directory attached.

7. Complete the questionnaire that is supplied with each SPR answer. Your feedback is essential in monitoring the quality of our responses.

8. SPRs should not be used for problems concerning software policy, software distribution, or hardware. The local office should be contacted in these cases.

RT-11 V4.Ø
Monitor Patches
RT-11FB VØ4.ØØF
RT-11SJ (S) VØ4.ØØF
RT-11FB (S) VØ4.ØØK
RT-11XM (S) VØ4.ØØN

UPDATES TO MONITOR FILES (JM)

The following errors are corrected in the patches below. Please note that these patches increase the size of RMON.

FB distributed monitor:

The correction made to allow the .GTLIN request to acknowledge the setting of bit 14 of the JSW (Seq 1.1.16) inhibits the monitor from converting lowercase input to uppercase input for the .CSIGEN and .CSISPC requests. After applying the following patch if bit 14 is set in the JSW lowercase input to a .GTLIN request will not be converted to uppercase but will for both .CSIGEN and .CSISPC.

System generated monitors:

In FB and XM, the correction made to allow the .GTLIN request to acknowledge the setting of bit 14 of the JSW (Seq 1.1.16) inhibits the monitor from converting lowercase input to uppercase input for the .CSIGEN and .CSISPC requests. After applying the following patch if bit 14 is set in the JSW lowercase input to a .GTLIN request will not be converted to uppercase but will for both .CSIGEN and .CSISPC.

The system hangs when booting on a system containing DIBOL Instruction Set support (subset of LSI-11 Commercial Instruction Set). When the bootstrap executes the CIS instruction to determine the existance of the Commercial Instruction Set hardware the value in the high byte of R4 is non-zero which with DIS support indicates instruction suspension. This effects all system generated monitors.

The inhibit TT wait bit (bit 6) of the terminal configuration word (T.CNFG) in the TCB of non-console terminals is not cleared when the terminals are detached, either through an explicit detach (.MTDTCH request) or when a job terminates. This effects all multi-terminal monitors.

Global symbols are added to extend support of products layered on RT-11. This effects all system generated monitors.

The FB and XM monitor does not set the handler hold flag on normal abort entry which may cause queue elements belonging to an aborted job to remain in a handler's queue after the job has been terminated.

1. The following is a required patch to the RT-11FB VØ4.ØØF (distributed) foreground background monitor. It must be installed in all copies of RT11FB.SYS (previously modified in Seq 1.1.16 M).

RT-11 V4.Ø
Monitor Patches
RT-11FB VØ4.ØØF
RT-11SJ (S) VØ4.ØØF
RT-11FB (S) VØ4.ØØK
RT-11XM (S) VØ4.ØØN

NOTE: Since patching the distribution medium is not recommended, the patch must be installed whenever you copy the monitor file from the distribution medium.

This patch is installed by using SIPP, the Save Image Patching Program. First, ensure that a copy of the monitor file to be patched is on a mounted volume. Using an editor, create the file RT11FB.ØØ7 as follows. Replace 'DK:' in the patch below with the name of the device that contains the monitor file.

```
RUN SIPP
DK:RT11FB.SYS/C
Ø
4736
47166
^Z                                  (up-arrow/Z)
476Ø
43460
^Z                                  (up-arrow/Z)
^Z                                  (up-arrow/Z)
36352
3726
4767
12576
^Z                                  (up-arrow/Z)
^Z                                  (up-arrow/Z)
55Ø44
34
417
11127
Ø
21127
1
24Ø
^Z                                  (up-arrow/Z)
74
26727
177740
1
1ØØ6
137ØØ
```

RT-11 V4.Ø
Monitor Patches
RT-11FB VØ4.ØØF
RT-11SJ (S) VØ4.ØØF
RT-11FB (S) VØ4.ØØK
RT-11XM (S) VØ4.ØØN

Seq 1.1.18 M


```
44
42700
137777
50061
450
207
^Y                                  (up-arrow/Y)
47206
^C                                  (up-arrow/C)
```

2. To apply the patch to RT11FB.SYS type:

   ```
   @RT11FB.007
   ```

   The resulting version of the monitor will be RT-11FB VØ4.ØØG.

3. After the patch has been installed, copy the boostrap and re-boot your system as follows:

   ```
   .COPY/BOOT RT11FB.SYS SY:
   .BOOT SY:
   ```

4. The following is a required patch to the RT-11 source file BSTRAP.MAC. You must apply it to the updated copy previously modified in Seq 1.1.16 M.

   To install the patch, first create a patch file for input to the SLP utility. Using an editor, create a file called BSTRAP.Ø17 on your system volume. Enter the text below into the file. The hyphen must be the first character in the file. The special symbol "<tab>" indicates the TAB character. All other blank spaces in the text should be entered in the file as single SPACE characters.

   ```
   -/ELBSTR<tab>== 24/,.,/;017/
   ELBSTR<tab>== 25
   -24,24,/;017/
   PATLSJ<tab>= 4
   -27,27,/;017/
   PATLFX<tab>= 11
   -182,,/;017/
   <tab>MOV<tab>R4,-(SP)
   <tab>CLR<tab>R4
   -183,,/;017/
   <tab>MOV<tab>(SP)+,R4
   -605,607,/;017/
   <tab>CALL<tab>@#XMREL+<BUFFB-RELLST>
   ```

```
-1588,,/;Ø17/
.IF NE MMG$T
XMREL::<tab>MOV<tab>MEMSIZ,$XMSIZ(R4)
<tab>MOV<tab>#$XMPTR,R1
<tab>ADD<tab>R4,R1
<tab>MOV<tab>R1,DECNET(R4)
<tab>MOV<tab>#RMSTAK,R1
<tab>ADD<tab>R4,R1
<tab>RETURN
.ENDC
/
```

5. The following is a required patch to the RT-11 source file RMONFB.MAC. You must apply it to the updated copy previously modified in Seq 1.1.16 M.

   To install the patch, first create a patch file for input to the SLP utility. Using an editor, create a file called RMONFB.Ø1Ø on your system volume. Enter the text below into the file. The hyphen must be the first character in the file. The special symbol "<tab>" indicates the TAB character. All other blank spaces in the text should be entered in the file as single SPACE characters.

```
-/ELRMFB<tab>== 13/,.,/;Ø1Ø/
ELRMFB<tab>== 14
-1Ø8,1Ø8,/;Ø1Ø/
FORK::<tab>.WORD<tab>$FORK-$RMON
-699,,/;Ø1Ø/
ERRHOK::
-1334,,/;Ø1Ø/
RCTHOK::
-1539,,/;Ø1Ø/
<tab>MOV<tab>@R1,(PC)+
GTLFLG:<tab>.WORD<tab>Ø
-1587,,/;Ø1Ø/
<tab>CMP<tab>GTLFLG,#1
<tab>BNE<tab>77$
-159Ø,,/;Ø1Ø/
77$:
-1712,,/;Ø1Ø/
EXIHOK::
-3638,,/;Ø1Ø/
GTIHOK::
-3736,,/;Ø1Ø/
CMTHOK::
-3875,3875,/;Ø1Ø/
```

RT-11 V4.Ø
Monitor Patches
RT-11FB VØ4.ØØF
RT-11SJ (S) VØ4.ØØF
RT-11FB (S) VØ4.ØØK
RT-11XM (S) VØ4.ØØN

Seq 1.1.18 M

5 of 6

```
 .ROM<tab>MOV<tab>#1ØØØØØ,FPPFLG,GLOBAL=YES
-3898,3898,/;Ø1Ø/
 .ROM<tab>ADD<tab>R5,PSCLOK,GLOBAL=YES
-3933,,/;Ø1Ø/
ENSHOK::
-3946,3946,/;Ø1Ø/
 .ROM<tab>MOV<tab>SP,TASKSP,GLOBAL=YES
-4Ø16,,/;Ø1Ø/
FPSHOK::
-4415,4415,/;Ø1Ø/
1ØØ$:<tab>SEC
<tab>ROR<tab>-(RØ)
-4562,,/;Ø1Ø/
CRRHOK::
/
```

6. The following is a required patch to the RT-11 source file MTTEMT.MAC. You must apply it to the uncommented source supplied with the Version 4 distribution kit.

   To install the patch, first create a patch file for input to the SLP utility. Using an editor, create a file called MTTEMT.ØØ1 on your system volume. Enter the text below into the file. The hyphen must be the first character in the file. The special symbol "<tab>" indicates the TAB character. All other blank spaces in the text should be entered in the file as single SPACE characters.

```
-/ELMTEM<tab>== Ø/,.,/;ØØ1/
ELMTEM<tab>== 1
-357,357,/;ØØ1/
<tab>BIC<tab>#TCBIT$!TTSPC$!TTLC$,@R3
-433,433,/;ØØ1/
MTTGET::
<tab>JSR<tab>PC,GETPSW
-448,,/;ØØ1/
MTTHOK::
/
```

7. The following is a required patch to the RT-11 source file MTTINT.MAC. You must apply it to the updated copy previously modified in Seq 1.1.16 M.

   To install the patch, first create a patch file for input to the SLP utility. Using an editor, create a file called MTTINT.ØØ5 on your system volume. Enter the text below into the file. The hyphen must be the first character in the file. The special symbol "<tab>" indicates the TAB character. All other blank spaces in the text should be entered in the file as single SPACE characters.

RT-11 V4.Ø
Monitor Patches
RT-11FB VØ4.ØØF
RT-11SJ (S) VØ4.ØØF
RT-11FB (S) VØ4.ØØK
RT-11XM (S) VØ4.ØØN

Seq 1.1.18 M

6 of 6

```
-/ELMTIN<tab>== 1Ø/,.,/;ØØ5/
ELMTIN<tab>== 11
-162,,/;ØØ5/
DLIHOK::
-198,,/;ØØ5/
DLIHOK::
-2Ø9,,/;ØØ5/
FRQHOK::
-94Ø,,/;ØØ5/
.ENABL LSB
-969,,/;ØØ5/
DLOHOK::
-1ØØ8,,/;ØØ5/
PCHHOK::
-1Ø1Ø,,/;ØØ5/
DSBHOK::
-1Ø12,,/;ØØ5/
.DSABL LSB
/
```

8. Apply the patches to the source files as follows:

```
.R SLP
*BSTRAP=BSTRAP,BSTRAP.Ø17
*RMONFB=RMONFB,RMONFB.Ø1Ø
*MTTEMT=MTTEMT,MTTEMT.ØØ1
*MTTINT=MTTINT,MTTINT.ØØ5
*^C                                  (CTRL/C to exit)
```

9. Repeat the assembly and link of your generated monitor, using the command file MONBLD.COM that was produced during system generation. Alternately, you can manually repaet the relevant assembly and link steps. Be sure to use the correct version of SYCND.MAC and to relink with the correct OBJ files.

1Ø. The resulting version of the SJ generated monitor will be RT11SJ (S) VØ4.ØØG. The resulting version of the FB generated monitor will be RT11FB (S) VØ4.ØØL. The resulting version of the XM generated monitor will be RT11XM (S) VØ4.ØØO.

11. Preserve the patched source files. If there are any future corrections, you will be required to apply them to the patched source files.

RT-11 V4.Ø
System Utilities
DUP.SAV VØ4.ØØH

Seq 7.2.1Ø M

1 of 1

/V WITH NO DEVICE SPECIFICATION GIVES WRONG ERROR MESSAGE (DBF)

If the /V option is used without a device specification, DUP prints the message, ?DUP-F-Channel not open. It should give an illegal command message.

1. The following is a required patch to the DUP.SAV utility program. It must be installed in all copies of the utility.

   NOTE: Since patching the distribution medium is not recommended, the patch must be installed every time you copy the program from the distribution medium.

2. This patch is installed using SIPP, the Save Image Patching Program. First, ensure that a copy of the file DUP.SAV is on a mounted volume. Create the file, DUP.ØØ9 as follows. Replace 'DK:' in the patch below with the name of the device that contains the program file.

```
RUN SIPP
DK:DUP.SAV/A/C
Ø
3546
111
^Z                              (up-arrow/Z)
11750
2ØØ1
^Y                              (up-arrow/Y)
17304
^C                              (CTRL/C to exit)
```

3. To apply the patch to DUP.SAV type:

```
@DUP.ØØ9
```

   The resulting version of the utility will be DUP VØ4.ØØI.

4. Save the new version of the utility on a backup volume.

RT-11 V4.Ø
System Utilities
DIR.SAV VØ4.ØØB

Seq 7.3.3 M

1 of 1

LOSS OF LAST PRINT CHARACTER IN DIRECTORY LISTING (LB)

When DIR prints a directory that is one character more than a full 512 word block, the last character, a CR, is lost. When this directory is followed by another directory on a printer set at NOFORMØ, the following results:

a. For a line printer, the first line of the second directory is concatenated onto the last line of the first directory.

b. For a serial line printer, the first line of the second directory overwrites the last line of the first directory.

1. The following is a required patch to the DIR.SAV utility program. It must be installed in all copies of the utility.

   NOTE: Since patching the distribution medium is not recommended, the patch must be installed every time you copy the program from the distribution medium.

2. This patch is installed using SIPP, the Save Image Patching Program. First, ensure that a copy of the file DIR.SAV is on a mounted volume. Create the file, DIR.ØØ3 as follows. Replace 'DK:' in the patch below with the name of the device that contains the program file.

```
R SIPP
DK:DIR.SAV/A/C
Ø
1Ø54
1Ø3
^Z                              (up-arrow/Z)
16112
1ØØØ
^Y                              (up-arrow/Y)
Ø556ØØ
^C                              (CTRL/C to exit)
```

3. To apply the patch to DIR.SAV type:

```
@DIR.ØØ3
```

   The resulting version of the utility will be DIR VØ4.ØØC.

4. Save the new version of the utility on a backup volume.

PROBLEM WITH IDENTIFYING 11/23 PROCESSOR (LCP)

RESORC incorrectly identifies 11/23 processors which:

1. do not have BDV11 modules but rather derive the Line Time Clock signal from an MXV11 (displays "Unkown Processor").

2. have KPV11 or KWV11 modules used as the system clock (displays "PDP 11/24 Processor").

After applying the patch in this article, RESORC /H, /Z and /A options will display "PDP 11/23,24 Processor".

1. The following is a required patch to the RESORC.SAV utility program. It must be installed in all copies of the utility.

   NOTE: Since patching the distribution medium is not recommended, the patch must be installed every time you copy the program from the distribution medium.

2. This patch is installed using SIPP, the Save Image Patching Program. First, ensure that a copy of the file RESORC.SAV is on a mounted volume. Create the file, RESORC.ØØ3 as follows. Replace 'DK:' in the patch below with the name of the device that contains the program file.

```
RUN SIPP
DK:RESORC.SAV/C
Ø
2656
1Ø3
^Z                                  (up-arrow/Z)
47Ø6
26Ø63
32Ø62
2ØØ
^Z                                  (up-arrow/Z)
5176
4676
^Z                                  (up-arrow/Z)
1556Ø
6Ø1ØØ
2Ø7
^Y                                  (up-arrow/Y
26716
^C                                  (CTRL/C to exit)
```

3. To apply the patch to RESORC.SAV type:

```
@RESORC.ØØ3
```

   The resulting version of the utility will be RESORC VØ4.ØC.

RECORDS DROPPED BY FILEX (MG)

The following patch corrects a problem which causes data to be lost when copying from interchange floppy if the end of a record occurs at the same time FILEX finds the end of its internal copy buffer.

1. The following is a required patch to the FILEX.SAV utility program. It must be installed in all copies of the utility.

   NOTE: Since patching the distribution medium is not recommended, the patch must be installed every time you copy the program from the distribution medium.

2. This patch is installed using SIPP, the Save Image Patching Program. First, ensure that a copy of the file FILEX.SAV is on a mounted volume. Create the file, FILEX.ØØ4 as follows. Replace 'DK:' in the patch below with the name of the device that contains the program file.

```
R SIPP
DK:FILEX.SAV/A/C
Ø
5Ø
21746
^Z                                  (up-arrow/Z)
2674
1Ø6
^Z                                  (up-arrow/Z)
3752
21750
^Z                                  (up-arrow/Z)
17656
4767
2Ø52
^Z                                  (up-arrow/Z)
21734
5767
16Ø344
1ØØ2
1Ø5767
16Ø4Ø1
2Ø7
^Y                                  (up-arrow/Y)
117Ø32
^C                                  (CTRL/C to exit)
```

3. To apply the patch to FILEX.SAV type:

   @FILEX.ØØ4

   The resulting version of the utility will be FILEX VØ4.ØØF.

4. Save the new version of the utility on a backup volume.

INCORRECT DUP CUSTOMIZATION PATCHES (MS)

In the RT-11 System Release Notes, the patches in Section 4.2.1.2, for user-written handlers that support bad block replacement, are incomplete. The following two patches replace patches A and B given in Section 4.2.1.2. The variable n in the following patches represents the maximum number of blocks that can be replaced.

Patch A

```
.R SIPP
*DUP.SAV
Segment? 1
Base?    3Ø
Offset?  1Ø243

Segment     Base      Offset      Old     New?
ØØØØØ1    ØØØØ3Ø     Ø1Ø243     ØØØ     377
ØØØØØ1    ØØØØ3Ø     Ø1Ø244     ØØØ     ^Z
Offset?  ^Z
Base?    ^Z
Segment? 1Ø
Base?    1ØØ52
Offset   466

Segment     Base      Offset      Old     New?
ØØØØ1Ø    Ø1ØØ52     ØØØ466   ØØØØØØ     377
ØØØØ1Ø    Ø1ØØ52     ØØØ47Ø   ØØØØØØ     n
ØØØØ1Ø    Ø1ØØ52     ØØØ472   ØØØØØØ     ^Z
Offset?  ^Y
*^C
```

Patch B

```
.R SIPP
*DUP.SAV
Segment? 1
Base?    3Ø
Offset?  1Ø252

Segment      Base      Offset      Old      New?
ØØØØØ1     ØØØØ3Ø      Ø1Ø252   ØØØØØØ     \

Segment      Base      Offset      Old      New?
ØØØØØ1     ØØØØ3Ø      Ø1Ø252     ØØØ      377
ØØØØØ1     ØØØØ3Ø      Ø1Ø253     ØØØ      ^Z
Offset?  ^Z
Base?    ^Z
Segment? 1Ø
Base?    1ØØ52
Offset?  466

Segment      Base      Offset      Old      New
ØØØØ1Ø     Ø1ØØ52      ØØØ466   ØØØØØØ      377
ØØØØ1Ø     Ø1ØØ52      ØØØ47Ø   ØØØØØØ      n
ØØØØ1Ø     Ø1ØØ52      ØØØ472   ØØØØØØ      ^Z
Offset?  ^Y
*^C
```

ERROR IN DESCRIPTION OF .DRSET MACRO (LCP)

The .DRSET macro does not function as described in the Software Support Manual, page 7-24, paragraph 7.5.3. The description of the "mode" argument should read as follows:

> 'mode' is an optional argument to indicate the type of SET parameter. Enter NO to indicate that a NO prefix is valid for the option. Enter NUM if a decimal value is required. Enter OCT if an octal value is required. Omitting the 'mode' argument indicates that the option takes neither a NO prefix nor a numeric argument. You can combine the NO and numeric arguments as follows. The construction <NO,NUM> indicates that both a NO prefix and a decimal value are valid. The construction <NO,OCT> indicates that both a NO prefix and an octal value are valid. Omitting the mode argument forces a Ø into the high byte of the last word of the table entry.

Thus, a SET command of the construction: "SET DY [NO]WRITE=1" is valid.

FMS-11/RT-11 V1.1
FRED V1.1

ZERO IMPURE AREA SIZE PROBLEM (CW)

PROBLEM STATEMENT:

FRED V1.1 always gives an impure area size of zero. This is seen both in the Form Wide Attributes form and in the form dump of any form by FRMUTL.

RESPONSE:

The following mandatory patch corrects the problem.

Patch to FRED V01.01:

```
.R SIPP<RET>
*FRED.SAV/A/C<RET>
Base?    000000<RET>
Offset?  000001326<RET>

  Base       Offset      Old   New?
   000000     001326  052525  004767<RET>
   000000     001330  052525  000004<RET>
   000000     001332  052525  004767<RET>
   000000     001334  052525  031602<RET>
   000000     001336  052525  016546<RET>
   000000     001340  052525  001320<RET>
   000000     001342  052525  016765<RET>
   000000     001344  052525  030670<RET>
   000000     001346  052525  001320<RET>
   000000     001350  052525  012667<RET>
   000000     001352  052525  030662<RET>
   000000     001354  052525  016546<RET>
   000000     001356  052525  001322<RET>
   000000     001360  052525  016765<RET>
   000000     001362  052525  030654<RET>
   000000     001364  052525  001322<RET>
   000000     001366  052525  012667<RET>
   000000     001370  052525  030646<RET>
   000000     001372  052525  016546<RET>
   000000     001374  052525  001324<RET>
   000000     001376  052525  016765<RET>
   000000     001400  052525  030640<RET>
   000000     001402  052525  001324<RET>
   000000     001404  052525  012667<RET>
   000000     001406  052525  030632<RET>
   000000     001410  052525  000207<RET>
   000000     001412  052525  ^Z<RET>
Offset?  000070620<RET>

  Base       Offset      Old   New?
   000000     070620  157006  125174<RET>
```

```
   000000     070622  103002  ^Z<RET>
Offset?  000100662<RET>

  Base       Offset      Old  New?
   000000     100662  030126  030526<RET>
   000000     100664  027061  030056<RET>
   000000     100666  030460  040461<RET>
   000000     100670  047400  ^Y<RET>

Checksum? 100056<RET>
*^C
```

The resultant version is FRED V1.01A.

NOTE: FRED stores the impure area size with the form so that FRMUTL can list it when it does a form dump. Therefore, you must use the patched FRED to resave any form for which you want FRMUTL to print the correct impure area size.

APL-11 V2.Ø
for RT-11 V4.Ø
Package Notes

Seq 38.1.1 N

1 of 1

APL IS AVAILABLE IN THE DECUS LIBRARY (JP)

APL has been removed from the list of DEC products and placed in the DECUS library. Anyone wishing APL software or documentation should phone Liz Clancy at the DECUS Library (617-467-4178; DTN: 231-4178). Note that you must be a member of DECUS to obtain any software or documentation from the DECUS Library.

THE COMPILER GENERATES INCORRECT CODE FOR EQUIVALENCED ARRAYS (PAT 12)

PROBLEM:

FORTRAN incorrectly choses the same pseudo-variable for a loop for equivalenced arrays which are contained in different COMMON blocks.

SOLUTION:

1. Type in the following MACRO files: PAT12.MAC, FIXVER.CØ3

PAT12.MAC:

```
                .TITLE  F1ØA
                .IDENT  /Ø1Ø/
                .PSECT  F1ØACB
        S=.
        .=S+65Ø2
                JMP     RLYSAM
                NOP
        .=S+6510
        TOLOOP:
        .=S+6514
                BIC     #^C<17ØØØØ>,@SP
        .=S+6522
                BIC     #^C<17ØØØØ>,@SP
                .PSECT  PAT1ØA,I
        RLYSAM:
                MOV     @R1,PTR1
                MOV     @R3,PTR2
                BIC     #^C<7ØØ>,PTR1
                BIC     #^C<7ØØ>,PTR2
                CMP     PTR1,PTR2
                BEQ     CON1
                JMP     TOLOOP
        CON1:   BIT     #1ØØ,@R1
                BNE     TOCHAN
                CMP     -2(R1),-2(R3)
                JMP     TOLOOP
        TOCHAN:
                CMP     -2(R1),-2(R3)
                BEQ     CON2
                JMP     TOLOOP
        CON2:
```

```
                MOV     RØ,-(SP)
                MOV     R1,RØ
                JSR     PC,TST
                MOV     RØ,PTR1
                MOV     R3,RØ
                JSR     PC,TST
                MOV     RØ,PTR2
                MOV     (SP)+,RØ
                CMP     PTR1,PTR2
                BEQ     FIN
                JMP     TOLOOP
FIN:            CMP     -2(R1),-2(R3)
                JMP     TOLOOP
TST:            TST     -(SP)
SRC:            MOV     @RØ,@SP
                BIC     #^C<7ØØØ>,@SP
                CMP     #6ØØØ,@SP
                BNE     TRVCHN
                TST     (SP)+
                RTS     PC
TRVCHN:         MOV     -4(RØ),RØ
                BR      SRC
PTR1:           .WORD
PTR2:           .WORD
                .END
```

FIXVER.CØ3:

```
                .TITLE  FROOT
                .IDENT  /Ø1Ø/
                .PSECT  ROOT
        .=.+37Ø
                .ASCII  /5-3/
                .END
```

2. Assemble the patches using MACRO-11

```
.R MACRO
*PAT12=PAT12
*FIXVER=FIXVER.CØ3
*^C
```

3. Install the patches, using PAT, to the most recently patched LOOP.OBJ, and FROOT.OBJ files:

   NOTE: Make a copy of LOOP.OBJ, and FROOT.OBJ before you patch it just in case something goes wrong.

```
.R PAT
*LOOP=LOOP/C:163630,PAT12/C:050013
.R PAT
*FROOT=FROOT/C:077207,FIXVER/C:007005
```

4. Rebuild the compiler using the procedure described in the FORTRAN IV Installation Guide.

5. Test the patches by creating and compiling the following FORTRAN program.

```
        INTEGER TX(4),TY(4)
        COMMON  /REG1/K1,K2,K3,K4
        COMMON  /REG2/L1,L2,L3,L4
        EQUIVALENCE     (TX(1),K1),(TY(1),L1)
        DO 20 I=1,4
        TX(I)=I
        TY(I)=I*10
20      TX(I)=TY(I)
        WRITE(5,100)
100     FORMAT(' THIS PATCH IS SUCCESSFULLY APPLIED ',/,
        1 ' WHEN THE TWO ROWS BELOW ARE EQUAL ')
        WRITE(5,200) ( TX(J),J=1,4),(TY(J),J=1,4)
200     FORMAT('0',4I6,/,X,4I6)
        END
```

   Which should produce the following results:

```
        THIS PATCH HAS BEEN SUCCESSFULLY APPLIED
        WHEN THE TWO ROWS BELOW ARE EQUAL

            10    20    30    40
            10    20    30    40
```

FPU DOUBLE PRECISION SINE/COSINE MODULE ERRORS (PAT 13)

PROBLEM:

The FORTRAN OTS DSIN and DCOS routines for the FPP hardware incorrectly calculate results when the function argument is within the range of the constant PI plus or minus .1E-13.

SOLUTION:

1. Type in the following MACRO file: PAT13.MAC

PAT13.MAC:

```
        .TITLE  $DSIN
        .IDENT  /ØØ3/
        .PSECT  OTS$I
                F%Ø=%Ø
                F%2=%2
S=.
.=S+1Ø2
        JMP     SMLARG
RET:
.=S+126
        JMP     FRCINT
        NOP
RTN:
.=S+152
DPIOV2:
.=S+3Ø2
SMLARG:
        LDD     F%Ø,F%2
        TST     R4
        BEQ     1Ø$
        NEGD    F%Ø
1Ø$:    ABSD    F%2
        CMPD    #^O0312ØØ,F%2
        CFCC
        BGE     SMALL
        MULD    F%2,F%2
        JMP     RET
SMALL:
        MULD    DPIOV2,F%Ø
```

```
        JMP     RTN
FRCINT:
        CFCC
        BLT     LTZERO
        CMPD    #1.Ø,FØ
        CFCC
        BLT     1Ø$
        JMP     RTN
1Ø$:    LDD     #1.Ø,FØ
        JMP     RTN
LTZERO:
        CMPD    #-1.Ø,FØ
        CFCC
        BGT     1Ø$
        JMP     RTN
1Ø$:    LDD     #-1.Ø,FØ
        JMP     RTN
        .END
```

2. Assemble the patch using MACRO-11

```
.R MACRO
*PAT13=PAT13
*^C
```

3. Install the patch, using PAT, to the most recently patched FPU.OBJ file:

   NOTE: Make a copy of FPU.OBJ before you patch it just in case something goes wrong.

```
.R PAT.SAV
*FPU=FPU/C:64735,PAT13/C:32341
```

4. Rebuild the OTS using the procedure described in the FORTRAN IV Installation Guide.

5. Test the patch by creating and compiling the following FORTRAN program.

```
REAL* 8 X,Y
DO 2Ø I=13,14
X=Ø.1**(I)
Y=DSIN(X)
```

```
        WRITE(5,1) X,Y
1       FORMAT(3X,'DSIN(',E2Ø.12') = ',E2Ø.12)
2Ø      CONTINUE
        END
```

Which should produce the following results:

```
          DSIN(  Ø.1ØØØØØ38903E-12) =   Ø.1ØØØØØ38903E-12
          DSIN(  Ø.1ØØØØØ49067E-13) =   Ø.1ØØØØØ49067E-13
        STOP --
```

CTS-3ØØ VØ6 Seq 51.18.Ø4 M
for RT-11 V4.Ø Seq 51.2Ø.Ø7 M
TSD VBØ6-ØØC
XMTSD VCØ6-ØØF 1 of 3
(PATCH 19)

CORRECTION TO TSD/XMTSD

The following conditions can cause a Trap to 4 or 10 under TSD or an MMU fault under XMTSD:

SET LP: NOHANG is in effect

multi-volume files disabled with XCALL FLAGS

A DIBOL program is writing to the lineprinter when the printer goes off line, generating an error 22 I-O error. The problem occurs if the program then attempts to close the channel on which the printer was opened.

Patch 19 corrects this problem and changes the version number of TSD to VB06-00D and XMTSD to VC06-00G.

Using the editor, create the following source files. Name them as indicated in the comment line that begins each file. Then, to install the patch, follow the procedure shown following the source files.

CTS-3ØØ VØ6 Seq 51.18.Ø4 M
for RT-11 V4.Ø Seq 51.2Ø.Ø7 M
TSD VBØ6-ØØC
XMTSD VCØ6-ØØF 2 of 3
(PATCH 19)

;P019A.MAC

```
        .TITLE  $DIO
        .PSECT  $DIO
P019:
        .=      .+11660
        JMP     P019A

        .PSECT  $P019
P019A:  BEQ     3$
        BPL     2$
        CLRB    P019+11750(R2)
        JMP     P019+11664
2$:     JMP     P019+11666
3$:     JMP     P019+11674
        .END
```

;P019B.MAC

```
        .TITLE  $KDIO
        .PSECT  $DIO
P019:
        .=      .+10766
        JMP     P019A

        .PSECT  $P019
P019A:  BEQ     3$
        BPL     2$
        CLRB    P019+11056(R2)
        JMP     P019+10772
2$:     JMP     P019+10774
3$:     JMP     P019+11002
        .END
```

;P019V1.MAC

```
        .TITLE  DTO
        .CSECT  DTO

        .=      .+4563
        .ASCII  /D/
        .END
```

;P019V2.MAC

```
        .TITLE  $KDTO
        .PSECT  DATXX

        .=      .+42
        .BYTE   'G
        .END
```

CTS-3ØØ VØ6 Seq 51.18.Ø4 M
for RT-11 V4.Ø Seq 51.2Ø.Ø7 M
TSD VBØ6-ØØC
XMTSD VCØ6-ØØF 3 of 3
(PATCH 19)

```
.RENAME (DIO,KDIO,DTO,KDTO).OBJ *.OLD
 Files renamed:
DK:DIO.OBJ      to DK:DIO.OLD
DK:KDIO.OBJ     to DK:KDIO.OLD
DK:DTO.OBJ      to DK:DTO.OLD
DK:KDTO.OBJ     to DK:KDTO.OLD

.MACRO P019A,P019B,P019V1,P019V2
ERRORS DETECTED:  0
ERRORS DETECTED:  0
ERRORS DETECTED:  0
ERRORS DETECTED:  0

.R PAT
*DIO.OBJ=DIO.OLD/C:134054,P019A/C:024165

.R PAT
*KDIO.OBJ=KDIO.OLD/C:154524,P019B/C:023456

.R PAT
*DTO.OBJ=DTO.OLD/C:123670,P019V1/C:003243

.R PAT
*KDTO.OBJ=KDTO.OLD/C:051424,P019V2/C:004714

.R CTSGEN         ;FOR TSD

.R CTSGEN         ;FOR EXTENDED MEMORY TSD
```

CTS-3ØØ VØ6 Seq 51.2Ø.Ø6 M
for RT-11 V4.Ø
XMTSD VCØ6-ØØE 1 of 3
(PATCH 18)

XMTSD HANGS WHEN LP IS OFF-LINE

Consider a situation where one or more jobs, one of which writes to the line printer, are running under XMTSD. The printer is SET LP: HANG; there is plenty of free memory available. If the printer goes off-line and you then attempt to start up a new job at another terminal, the entire XMTSD runtime system may hang.

Patch 18 corrects this so that XMTSD does not hang under the above conditions. The version number of XMTSD changes to VC06-00F.

Using the editor, create the following source files. Name them as indicated in the comment line that begins each file. Then, to install the patch, follow the procedure shown following the source files.

```
;P018.MAC

        .TITLE  CORE ALLOCATOR
        .PSECT  $CORE
        .GLOBL  JOBMAX,$MMAPL,JOBSTS

P018:
        .=.+106
        JMP     P018A
        .=P018+1740
        JMP     P018B
        .=P018+1750
        JMP     P018C
        .=P018+2416
        JMP     P018+2440

        .PSECT  $P018
P018A:  MOV     #JOBMAX,R3
        CLR     R1
1$:     BIS     #177777,R2
2$:     BIT     #4377,JOBSTS(R1)
        BEQ     5$
        SOB     R2,2$
        BIT     #377,JOBSTS(R1)
        BEQ     1$
        SEC
        RTS     PC
5$:     TST     (R1)+
        SOB     R3,1$
        JMP     P018+1466
P018B:  CLR     -(SP)
        JSR     PC,P018+1750
        CLR     (SP)+
        JMP     P018+132
P018C:  MOV     #JOBMAX,R3
        CLR     R4
1$:     BIS     #177777,R1
2$:     BIT     #4377,JOBSTS(R4)
        BEQ     5$
        SOB     R1,2$
        BIT     #377,JOBSTS(R4)
        BEQ     1$
        TST     (SP)+
        TST     (SP)+
        SEC
        RTS     PC
5$:     TST     (R4)+
        SOB     R3,1$
        MOV     R0,-(SP)
        MOV     #$MMAPL,-(SP)
        JMP     P018+1756
        .END
```

CTS-3ØØ VØ6 Seq 51.2Ø.Ø6 M
for RT-11 V4.Ø
XMTSD VCØ6-ØØE 3 of 3

```
;P018V1.MAC

        .TITLE  $KDTO
        .PSECT  DATXX

        .=      .+42
        .BYTE   'F
        .END



.RENAME KCORE.OBJ,KDTO.OBJ *.OLD
 Files renamed:
DK:KCORE.OBJ    to DK:KCORE.OLD
DK:KDTO.OBJ     to DK:KDTO.OLD

.MACRO P018,P018V1
ERRORS DETECTED:  0
ERRORS DETECTED:  0

.R PAT
*KCORE.OBJ=KCORE.OLD/C:167570,P018/C:061544

.R PAT
*KDTO.OBJ=KDTO.OLD/C:50267,P018V1/C:4713

.R CTSGEN         ;FOR EXTENDED MEMORY TSD
```

GAMMA-11 V3.Ø
BGAMMA
DATANL

Seq 54.1.3 M

1 of 1

ISOMETRIC DISPLAY IMAGES USE INCORRECT INTENSITY LEVELS (JB)

There is an error in the data analysis program which causes intensity levels 9-16 to be displayed as levels 1-8. To correct this problem apply the following patch.

User input is indicated by bold type.

<CR> denote the carriage return key.

1. **.COPY DATANL.SAV DATANL.ØØ1<CR>**

2. **.R PATCH<CR>**

   FILENAME --

   ***DATANL.ØØ1/O/C<CR>**

   ***4:61612/** 177760 **177740<CR>**

   ***E**

   Checksum? **42405<CR>**

   If the error message:

   ?PATCH-I-Checksum error

   is printed after entering the checksum then the patch has been typed incorrectly and steps 1 and 2 must be repeated.

3. **.COPY DATANL.ØØ1 DATANL.SAV**

RT-11 V4.0
CUMULATIVE INDEX
SEPTEMBER 1981

This is a complete listing of all articles for RT-11 V4.0 and related products. In the case of subordinate software, missing sequence numbers may pertain to problems unique to interaction with previous 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 RT-11 Software Dispatch Review, March 1980.

*The "Autopatch Kit" column in the list which follows indicates the first RT-11 V4.0 Autopatch Kit in which the associated patch was included. Unless otherwise indicated, the patches also appear in subsequent Autopatch Kits as well. Note that Autopatch Kit "A" is the latest kit available from the SDC.

Component	Autopatch Kit	Sequence	Mon/Yr
RT-11 V4.0			
MONITOR PATCHES			
ISSUING .SETTOP #-2 AND .EXIT UNDER XM MONITOR MAY CORRUPT SYSTEM DISK	A	1.1.1 M	Jul 80
IMPLEMENTING INTERNAL HANDLER QUEUEING IN FB AND XM MONITORS	A	1.1.2 M	Jul 80
ADDING HIGH SPEED RING BUFFER SUPPORT	A	1.1.3 M	Jul 80
CORRUPTION OF CSI TEXT UNDER XM MONITOR	A	1.1.4 M	Jul 80
MISSING COLON IN BOOT XX CAUSES SYSTEM HALT	A	1.1.5 M	Jul 80
TYPING ^U WHILE IN A ^X SEQUENCE UNDER A SYSTEM JOB	A	1.1.6 M	Sep 80
ABNORMAL TERMINATION OF FG JOB WHICH IS USING CSI	A	1.1.7 M	Nov 80
MISCELLANEOUS MRRT-11 BUGS	A	1.1.8 M	Nov 80
MRRT-11 MINIMAL FILE SUPPORT PROBLEM	A	1.1.9 M	Nov 80
INCORRECT LIMIT CHECKS ON PRIVILEGED BACKGROUND JOBS USING VIRTUAL OVERLAYS	A	1.1.10 M	Nov 80
MULTI-TERMINAL MONITORS DON'T ALWAYS PROCESS CTRL/F PROPERLY	A	1.1.11 M	Nov 80
MONITOR CHANGES AND CORRECTIONS	A	1.1.12 M	Dec 80
MONITOR CORRECTIONS	B	1.1.13 M	Jan 81
MONITOR UPDATES	B	1.1.14 M	Feb 81
ABORT I/O IN PROGRESS HANDLER BIT	B	1.1.15 M	Apr 81
CORRECTIONS FOR DISTRIBUTED AND SYSTEM GENERATED MONITORS		1.1.16 M	Jun 81
PRINT COMMAND RESTRICTION		1.1.17 R	Jul 81
UPDATES TO MONITOR FILES		1.1.18 M	Sep 81
DEVICE HANDLER SOURCES			
DEVICE HANDLER NOTES			
RL02s AT REV. LEVEL "F" FAIL DURING RT-11 SYSGEN		6.1.1 N	Oct 80

COMPONENT	AUTOPATCH KIT	SEQUENCE	MON/YR
DD.MAC			
DD PRIMARY BOOTSTRAP PROBLEM	A	6.4.1 M	Jul 80
DL.MAC			
PATCH XM VERSION OF DL HANDLER .SPFUN GET SIZE ROUTINE	A	6.5.1 M	Dec 80
ERRORS ON RL01 DISK DRIVES AFTER DISK PACKS ARE CHANGED	B	6.5.2 M	Jan 81
DM.MAC			
ERRORS IN DM OFFSET POSITIONING AND ERROR LOGGING	A	6.6.1 M	Jul 80
DY.MAC			
DELETED DATA MARK MAY BE LOST IF BUFFER STARTS ON PAR BOUNDARY		6.11.1 M	Aug 81
LP.MAC			
LP SET NOHANG MAY CRASH SYSTEM	A	6.12.1 M	Sep 80
LS.MAC			
LS SET NOHANG MAY CRASH SYSTEM	A	6.13.1 M	Sep 80
PROBLEMS WITH LS HANDLER	B	6.13.2 M	Jan 81
USING AN LA120 TERMINAL AS A LINE PRINTER WITH THE LS HANDLER		6.13.3 N	Jul 81
SET LS NOHANG IS CURRENTLY INOPERATIVE		6.13.4 M	Jul 81
RACE CONDITION IN LS HANDLER		6.13.5 M	Aug 81
PD.MAC			
CORRECTION TO PDT ERROR LOGGING SUPPORT	B	6.16.1 M	Apr 81
MAG TAPE HANDLERS			
BUFFER CLEARING ON SHORT READ IN XM MONITOR	A	6.20.1 M	Jul 80
LINKING AN XM, NON-FILESTRUCTURED TS HANDLER GENERATES AN UNDEFINED GLOBAL	A	6.20.2 M	Aug 80
INCORRECT READ ERROR RECOVERY IN MT HANDLER	A	6.20.3 M	Sep 80
TS-11 DOES NOT RECOVER FROM SOFT ERROR ON WRITE EOF		6.20.4 M	Jul 81
SYSTEM UTILITIES			
PIP.SAV			
ERRORS IN PIP	A	7.1.1 M	Sep 80
COPY/PREDELETE COMMAND		7.1.2 N	Sep 80
MATCHING FILE SPEECIFICATIONS ERRORS	B	7.1.3 M	Feb 81
COPY/BINARY/WAIT AND LOG HEADER PROBLEMS	B	7.1.4 M	Apr 81
COPY/PREDELETE AND COPY/NOREPLACE WORK INCORRECTLY WITH /WAIT		7.1.5 M	Jun 81
ERROR WITH RENAME/NOREPLACE		7.1.6 M	Jul 81
DUP.SAV			
MISSING COLON IN BOOT XX CAUSES SYSTEM HALT	A	7.2.1 M	Jul 80
SQUEEZE CREATES <UNUSED> ENTRIES OF LENGTH ZERO BEFORE .BAD FILES	A	7.2.2 M	Aug 80
PROBLEMS WITH COPY/DEVICE AND INITIALIZE	A	7.2.3 M	Dec 80
BOOTSTRAPPING AN UNPATCHED MONITOR FROM A PATCHED SYSTEM	B	7.2.4 N	Jan 81
.SPFUN RETURN BUFFER PROCESSED INCORRECTLY FOR RK06/7	B	7.2.5 M	Jan 81
USE OF INITIALIZE/RESTORE ON MEDIA SUPPORTING BAD BLOCK REPLACEMENT		7.2.6 N	May 81
PROBLEMS WITH INIT/BAD AND COPY/DEVICE		7.2.7 M	May 81
PROBLEMS WITH INITIALIZE COMMAND		7.2.8 M	Jun 81
ATTEMPT TO RESTORE UNCLOSED TENTATIVE FILES FAILS		7.2.9 M	Jul 81
/V WITH NO DEVICE SPECIFICATION GIVES WRONG ERROR MESSAGE		7.2.10 M	Sep 81
DIR.SAV			
DIR/OUT COMMAND PRODUCES DEVICE NOT ACTIVE MESSAGE	A	7.3.1 M	Jul 80
DIR/VOL GIVES ?MON-F-TRAP TO 4	A	7.3.2 M	Dec 80
LOSS OF LAST PRINT CHARACTER IN DIRECTORY LISTING		7.3.3 M	Sep 81
RESORC.SAV			
RESORC MAY REPORT INCORRECT JOB NAMES ON A SHOW JOBS COMMAND	A	7.5.1 M	Aug 80
ADD CIS DETECTION CAPABILITY TO RESORC	B	7.5.2 M	May 81
PROBLEM WITH IDENTIFYING 11/23 PROCESSOR		7.5.3 M	Sep 81

COMPONENT	AUTOPATCH KIT	SEQUENCE	MON/YR
LINK.SAV			
LINK BYTE RELOCATION AND DIRECTORY SIZE	A	7.9.1 M	Jul 80
LINK MAP PROCESSING ERROR	A	7.9.2 M	Aug 80
LINK MAP ERROR AND MULTIPLE DEFINITION LIBRARIES	A	7.9.3 M	Oct 80
RT-11 V4 LINKER RESTRICTION	B	7.9.4 R	Jan 81
LINK TRANSFER ADDRESS CALCULATION BUGS	B	7.9.5 M	Mar 81
LINK ADDITIONS AND CORRECTIONS		7.9.6 M	Aug 81
LIBR.SAV			
A LIBR COMMAND WITH NO FILE-SPEC CAN CAUSE A SYSTEM CRASH	A	7.10.1 M	Jul 80
LIBR ERRORS		7.10.2 M	Jul 81
LIBR CORRUPTS FORM LIBRARY DIRECTORY		7.10.3 M	Jun 81
FILEX.SAV			
FILEX WILDCARD TRANSFERS CAUSE MONITOR TRAP	A	7.11.1 M	Aug 80
FILEX CREATES ZERO FILLED INTERCHANGE RECORDS	A	7.11.2 M	Sep 80
SIZE CALCULATION PROBLEM IN FILEX		7.11.3 M	Aug 81
RECORDS DROPPED BY FILEX		7.11.4 M	Sep 81
SRCCOM.SAV			
COMPARING TWO FILES MAY CAUSE TRAP TO 4	A	7.12.1 M	Aug 80
BLANK LINE COMPARISON FOR SLIDING MATCH	A	7.12.2 M	Dec 80
BINCOM.SAV			
BINCOM GENERATES ERRONEOUS ERROR MESSAGE	B	7.13.1 M	Apr 81
ERRONEOUS DOUBLE PRECISION CALCULATION IN BINCOM		7.13.2 M	Jun 81
DUMP.SAV			
BLOCK NUMBERS OUTPUT FROM DUMP		7.14.1 M	Aug 81
SLP.SAV			
TERMINATION OF PATCHING SESSION WITH SLP FATAL ERRORS	A	7.15.1 M	Nov 80
SLP GENERATES FATAL ERROR TRAP	B	7.15.2 M	Jan 81
SLP ERROR	B	7.15.3 M	Mar 81
SIPP.SAV			
CORRUPTION OF MULTI-BLOCK LOG FILES	A	7.16.1 M	Jul 80
PAT.SAV			
USE OF THE PAT UTILITY WITH RT-11 V3B PATCHES		7.17.1 N+	Mar 80
HELP.SAV			
PROBLEMS WITH HELP UTILITY	A	7.19.1 M	Nov 80
EDIT.SAV			
EDIT MISHANDLES OUTPUT FILE FULL ERROR	B	7.20.1 M	Jan 81
SYSTEM SUBROUTINE LIBRARY (SYSLIB)			
SYSLIB.OBJ			
PATCH TO ICSI	A	8.1.1 M	Oct 80
IASIGN REDEFINITIONS	A	8.1.2 M	Oct 80
ILUN RESTRICTION		8.1.3 R	Feb 81
SYSTEM MACRO LIBRARY			
.SPFUN PROGRAMMED REQUEST	A	9.1.1 M	Dec 80
ABORT I/O PROGRESS SUPPORT FOR SYSMAC	B	9.1.2 M	Apr 81
.CMKT PROGRAMMED REQUEST		9.1.3 M	Jun 81
SYSTEM GENERATION PACKAGE			
SYSGEN CREATES ONE MORE DEVICE SLOT THAN REQUESTED	A	10.3.1 M	Dec 80
ASSEMBLY ERROR AFTER SYSGEN	B	10.3.2 M	Mar 81
DOCUMENTATION			
RT-11 SYSTEM RELEASE NOTES			
RT-11 V4.0 DOCUMENTATION CORRECTIONS AND ADDITIONS		11.2.1 N	Jul 80
DOCUMENTATION CORRECTIONS		11.2.2 N	Aug 80
CHANGES TO DUP /I OPTION		11.2.3 N	Apr 81
INCORRECT DUP CUSTOMIZATION PATCHES		11.2.4 N	Sep 81

COMPONENT	AUTOPATCH KIT	SEQUENCE	MON/YR
RT-11 INSTALLATION AND SYSTEM GENERATION GUIDE			
RT-11 V4.0 DOCUMENTATION CORRECTIONS AND ADDITIONS		11.3.1 N	Jul 80
CORRECTION TO AN OPTIONAL PATCH TO LINK		11.3.2 N	Aug 80
DOCUMENTATION ERROR: REFERENCE TO RL02 OMITTED FROM SYSGEN DIALOGUE		11.3.3 N	Oct 80
INCORRECT LINK MAPS FOR DISTRIBUTED MONITORS		11.3.4 N	Dec 80
INCORRECT PATCH FOR CHANGING QUEUE WORK FILE SIZE		11.3.5 N	Dec 80
CHANGING DEFAULT NUMBER OF DIRECTORY SEGMENTS		11.3.6 N	Apr 81
INTRODUCTION TO RT-11			
RT-11 V4.0 DOCUMENTATION CORRECTIONS AND ADDITIONS		11.4.1 N	Jul 80
RT-11 SYSTEM USER'S GUIDE			
RT-11 DOCUMENTATION CORRECTIONS AND ADDITIONS		11.5.1 N	Jul 80
CORRECTIONS TO SLP CHAPTER: RT-11 SYSTEM USER'S GUIDE		11.5.2 N	Oct 80
DIFFERENCES BETWEEN DEVICE COPYING COMMANDS		11.5.3 N	Dec 80
RT-11 SYSTEM MESSAGE MANUAL			
RT-11 V4.0 DOCUMENTATION CORRECTIONS AND ADDITIONS		11.6.1 N	Jul 80
CORRECTIONS TO SLP MESSAGES IN "RT-11 SYSTEM MESSAGE MANUAL"		11.6.2 N	Nov 80
NEW SLP ERROR MESSAGE		11.6.3 N	Feb 81
RT-11 POCKET GUIDE			
RT-11 V4.0 DOCUMENTATION CORRECTIONS AND ADDITIONS		11.7.1 N	Jul 80
RT-11 PROGRAMMER'S REFERENCE MANUAL			
DOCUMENTATION CORRECTIONS		11.8.1 N	Sep 80
INCORRECT PROGRAMMED REQUEST EXAMPLES		11.8.2 N	Mar 81
RT-11 SOFTWARE SUPPORT MANUAL			
RT-11 V4.0 DOCUMENTATION CORRECTIONS AND ADDITIONS		11.9.1 N	Jul 80
SOFTWARE SUPPORT MANUAL CORRECTION		11.9.2 N	Jun 81
ERROR IN DESCRIPTION OF .DRSET MACRO		11.9.3 N	Sep 81
DEBUGGING UTILITIES			
VDT.OBJ			
NOTES ON USING ODT OR VDT IN AN XM ENVIRONMENT		12.2.1 N	Jan 81
BATCH PACKAGE			
BATCH.SAV			
PATCH BATCH TO USE MONITOR SUFFIX	A	15.1.1 M	Oct 80
SPOOLING PACKAGE			
QUEUE.REL			
SUPERFLUOUS LINEFEED FROM QUEUE	B	16.1.1 M	Mar 81
NARROW BANNER PAGES FROM QUEUE		16.1.2 F	May 81
/R FOLLOWING /S IF NO OUPTUT QUEUED MAY CAUSE FATAL ERROR IN QUEUE		16.1.3 M	Aug 81
QUEMAN.SAV			
PROBLEMS WITH QUEMAN	B	16.2.1 M	Jan 81
KEYPAD EDITOR			
KED			
MAKE TERMINAL SETUP OPTIONAL IF MTATCH FAILS	A	17.1.1 F	Aug 80
PROVIDE A .CHAIN INTERFACE FOR KED	A	17.1.2 F	Aug 80
PROVIDE REASONABLE ACTIONS AND ERROR MESSAGES WHEN DEALING WITH DEGENERATE FILES	A	17.1.3 M	Oct 80
SEARCH FAILS IF TARGET IF FIRST OR LAST STRING IN THE FILE	A	17.1.4 M	Nov 80
KNOWN ERRORS AND RESTRICTIONS		17.1.5 R	Dec 80
"SET SEARCH EXACT JUNK" COMMAND CRASHES KED		17.1.6 M	Jul 81
REPEATED USE OF THE "APPEND" FUNCTION CRASHES KED		17.1.7 M	Jul 81
DISABLE REVERSE VIDEO DISPLAY BY KED		17.1.8 F	Jul 81
FILE SAMPLE.KED OMITTED FROM DISTRIBUTION		17.1.9 N	Aug 81

COMPONENT	AUTOPATCH KIT	SEQUENCE	MON/YR
K52			
MAKE TERMINAL SETUP OPTIONAL IF MTATCH FAILS	A	17.2.1 F	Aug 80
PROVIDE A .CHAIN INTERFACE FOR K52	A	17.2.2 F	Aug 80
PROVIDE REASONABLE ACTIONS AND ERROR MESSAGES WHEN DEALING WITH DEGENERATE FILES	A	17.2.3 M	Oct 80
SEARCH FAILS IF TARGET IS FIRST OR LAST STRING IN THE FILE	A	17.2.4 M	Nov 80
KNOWN ERRORS AND RESTRICTIONS		17.2.5 R	Dec 80
"SET SEARCH EXACT JUNK" COMMAND CRASHES K52		17.2.6 M	Jul 81
REPEATED USE OF THE "APPEND" FUNCTION CRASHES K52		17.2.7 M	Jul 81
NO EQUIVALENT PATCH FOR K52 FOR SEQ 17.1.8		17.2.8 N	Aug 81
FILE SAMPLE.KED OMITTED FROM DISTRIBUTION		17.2.9 N	Aug 81
AUTOMATED PATCHING FACILITY PACKAGE			
PACKAGE NOTES			
AUTOPATCH SERVICE FOR RT-11		19.1.1 N	Jun 81
FMS-11/RT-11 V1.1			
ANNOUNCING FMS-11/RT-11 V1.1		33.1 N	Aug 80
FRED V1.1			
ZERO IMPURE AREA SIZE PROBLEM		33.3.1 M	Sep 81
BASIC-11/RT-11 V2.0			
INTERPRETER			
REPUBLICATION OF PATCHES		35.1.1 N+	Mar 80
PRINT USING - PATCH A	A	35.1.2 M+	Mar 80
RESEQ - PATCH B	A	35.1.3 M+	Mar 80
EDITING A DIM #n STATEMENT - PATCH C	A	35.1.4 M+	Mar 80
DOUBLE PRECISION HANG - PATCH D	A	35.1.5 M+	Mar 80
SAVE dev: AND REPLACE dev: - PATCH E	A	35.1.6 M+	Mar 80
SINGLE PRECISION HANG AND NUMERIC CONVERSION PROBLEM - PATCH F	A	35.1.7 M+	Mar 80
SAVE .XXX & UNSAVE .XXX - PATCH G	A	35.1.8 M+	Mar 80
NEW - PATCH H	A	35.1.9 M+	Mar 80
RESEQ - PATCH I	A	35.1.10 M+	Mar 80
LISTNH / OLD - PATCH J	A	35.1.11 M+	Mar 80
SYS(1) - PATCH K	A	35.1.12 M+	Mar 80
CALL - PATCH L	A	35.1.13 M+	Mar 80
DOUBLE PRECISION INTEGER VARIABLES - PATCH M	A	35.1.14 M+	Mar 80
FILESIZE 0 - PATCH N	A	35.1.15 M+	Mar 80
INTEGERS IN DOUBLE PRECISION BASIC-11		35.1.16 N+	Mar 80
REM STATEMENTS ON MULTI-STATEMENT LINES - PATCH O	A	35.1.17 M+	Mar 80
INT FUNCTION - PATCH P FOR SINGLE USER BASIC-11	A	35.1.18 M	Nov 80
"OLD" OF COMPILED PROGRAM - PATCH Q FOR SINGLE USER BASIC-11	B	35.1.19 M	Jan 81
PRINT USING - PATCH R FOR SINGLE USER BASIC-11	B	35.1.20 M	Jan 81
OMITTING TRIG FUNCTIONS FROM BASIC-11	B	35.1.21 N	Jan 81
STRING CONCATENATION - PATCH S FOR SINGLE USER BASIC-11	B	35.1.22 M	Mar 81
PROBLEM WITH BASIC-11 PATCH Q		35.1.23 N	May 81
UTILITIES			
CONVERSION PROGRAM		35.2.1 M+	Mar 80
BASIC-11/RT-11 V2 CONVERSION PROGRAM PATCH 1		35.2.2 M+	Mar 80
DOCUMENTATION			
OVERLAYING WHILE IN A SUBROUTINE		35.3.1 R+	Mar 80
OPERATION OF CTRLC, RCTRLC AND SYS(6) FUNCTIONS AND THE CTRL/C COMMAND		35.3.2 N+	Mar 80
OPERATION OF OLD, RUN, CHAIN, AND OVERLAY WHEN THE SPECIFIED FILE IS NOT FOUND		35.3.3 N+	Mar 80
CREATING AND ACCESSING VIRTUAL ARRAY FILES		35.3.4 N+	Mar 80
STORAGE OF THE NULL CHARACTER IN STRING VARIABLES AND VIRTUAL STRING ARRAYS		35.3.5 N+	Mar 80
USE OF COMPILE COMMAND		35.3.6 N+	Mar 80
STRING MANIPULATION IN ASSEMBLY LANGUAGE ROUTINES		35.3.7 N+	Mar 80
MAXIMUM ARRAY SUBSCRIPT SIZE		35.3.8 N+	Mar 80
NEW MANUAL AVAILABLE FOR BASIC-11/RT-11		35.3.9 N	May 81

COMPONENT	AUTOPATCH KIT	SEQUENCE	MON/YR
MU BASIC-11/RT-11 V2.0			
INTERPRETER			
CHAINING WITH COMMON - PATCH A		36.1.1 M+	Mar 80
VIRTUAL FILE I/O - PATCH B		36.1.2 M+	Mar 80
SYS(1,n) FUNCTION - PATCH C		36.1.3 M+	Mar 80
RESEQ - PATCH D		36.1.4 M+	Mar 80
VALUES IN PATCHES A, B, C		36.1.5 N+	Mar 80
LISTNH / OLD - PATCH E		36.1.6 M+	Mar 80
CALL - PATCH F		36.1.7 M+	Mar 80
DOUBLE PRECISION INTEGER VARIABLES - PATCH G		36.1.8 M+	Mar 80
INPUT #/PRINT # - PATCH H		36.1.9 M+	Mar 80
OLD OF A ZERO BLOCK FILE - PATCH I		36.1.10 M+	Mar 80
ADDITION TO PATCH B - PATCH J		36.1.11 M+	Mar 80
DEVICE MNEMONIC PROBLEM - PATCH K		36.1.12 M+	Mar 80
CLOSE - PATCH L		36.1.13 M+	Mar 80
REM STATEMENTS ON MULTI-STATEMENT LINES - PATCH M		36.1.14 M+	Mar 80
DEASSIGNING A TERMINAL - PATCH N		36.1.15 M+	Mar 80
INTEGERS IN DOUBLE PRECISION MU BASIC-11		36.1.16 N+	Mar 80
USE OF SYS(1,n) FUNCTION WHEN ',n' IS OMITTED - PATCH O		36.1.17 M+	Mar 80
DISABLING CR/LF USING TTYSET - PATCH P		36.1.18 M+	Mar 80
HANDLER FETCH ERROR MAY LEAD TO MONITOR FAULT - PATCH Q		36.1.19 M+	Mar 80
REMOTE LINES - PATCH R FOR MULTI-USER BASIC-11		36.1.20 M	Nov 80
INT FUNCTION - PATCH S FOR MULTI-USER BASIC-11		36.1.21 M	Nov 80
PRINT USING - REVISED PATCH T FOR MULTI USER BASIC-11		36.1.22 M	Apr 81
"OLD" OF COMPILED PROGRAM - PATCH U FOR MULTI USER BASIC-11		36.1.23 M	Jan 81
OMITTING TRIG FUNCTIONS FROM MU BASIC-11		36.1.24 N	Jan 81
SYS(1) FUNCTION - PATCH V FOR MULTI USER BASIC-11		36.1.25 M	Jan 81
STRING CONCATENATION - PATCH W FOR MULTI USER BASIC-11		36.1.26 M	Mar 81
CARD READER EOF - PATCH X FOR MULTI USER BASIC-11		36.1.27 M	May 81
CLOSE GIVES ILLEGAL FILES SPEC - PATCH Y FOR MULTI USER BASIC-11		36.1.28 M	May 81
TTSET GIVES TRAP TO 10 - MU BASIC PATCH Z		36.1.29 M	May 81
PROBLEM WITH MU BASIC-11 PATCH U		36.1.30 N	Jul 81
UTILITIES			
MU BASIC-11/RT-11 V2 CONFIGURATION PROGRAM PATCH 1		36.2.1 M+	Mar 80
MU BASIC-11/RT-11 V2 CONVERSION PROGRAM		36.2.2 F+	Mar 80
DOCUMENTATION			
OPERATION OF CTRLC, RCTRLC AND SYS(6) FUNCTIONS AND THE CTRL/C COMMAND		36.3.1 N+	Mar 80
MEMORY REQUIREMENTS OF OPTIONAL FUNCTIONS, ETC.		36.3.2 N+	Mar 80
OPERATION OF OLD, RUN, CHAIN AND OVERLAY WHEN THE SPECIFIED FILE IS NOT FOUND		36.3.3 N+	Mar 80
CREATING AND ACCESSING VIRTUAL ARRAY FILES		36.3.4 N+	Mar 80
STORAGE OF THE NULL CHARACTER IN STRING VARIABLES AND VIRTUAL STRING ARRAYS		36.3.5 N+	Mar 80
USE OF COMPILE COMMAND		36.3.6 N+	Mar 80
STRING MANIPULATIONN IN ASSEMBLY LANGUAGE ROUTINES		36.3.7 N+	Mar 80
ERROR IN TABLE 4-1 OF THE USER'S GUIDE		36.3.8 N+	Mar 80
RESTRICTION ON USR RESIDENCY WHEN RUNNING IN FOREGROUND		36.3.9 N+	Mar 80
MAXIMUM ARRAY SUBSCRIPT SIZE		36.3.10 N+	Mar 80
ASSEMBLING SOURCE FILES (SOURCE LICENSE HOLDERS ONLY)		36.3.11 N+	Mar 80
USE OF PATCH UTILITY		36.3.12 N+	Mar 80
APL-11 V2.0			
PACKAGE NOTES			
APL IS AVAILABLE IN THE DECUS LIBRARY		38.1.1 N	Sep 81
FORTRAN IV/RT-11 V2.1			
COMPILER			
PATCH 1		44.1.1 M+	Mar 80
PATCH 2		44.1.2 M+	Mar 80
PATCH 3		44.1.3 M+	Mar 80
REGISTER ALLOCATION - PATCH 8		44.1.4 M+	Mar 80
FORTRAN FAILS TO COMPILE DO-LOOPS - PATCH 11		44.1.5 M+	Mar 80

COMPONENT	AUTOPATCH KIT	SEQUENCE	MON/YR
COMMON SUBEXPRESSION OPTIMIZATION - PATCH 17		44.1.6 M+	Mar 80
BYTE COMPARISON AND COMMON SUBEXPRESSION OPTIMIZATION - PATCH 20		44.1.7 M+	Mar 80
DIRECT ACCESS READ - PATCH 21		44.1.8 M+	Mar 80
COMPLEX VARIABLE TO CONSTANT COMPARISON - PATCH 22		44.1.9 M+	Mar 80
OTS			
PATCH 4		44.2.1 M+	Mar 80
CARRIAGE CONTROL OPTION - PATCH 5		44.2.2 M+	Mar 80
OPEN FAILURE WITH TYPE='OLD' - PATCH 6		44.2.3 M+	Mar 80
FORTRAN LIBRARY FUNCTION ERRTST - PATCH 7		44.2.4 M+	Mar 80
SMALLER EXECUTION-TIME PROGRAMS		44.2.5 N+	Mar 80
FORTRAN OTS - PATCH 9		44.2.6 M+	Mar 80
I/O FROM A FORTRAN COMPLETION ROUTINE - PATCH 10		44.2.7 M+	Mar 80
CALL CLOSE (FORTRAN LIBRARY SUBROUTINE) - PATCH 12		44.2.8 M+	Mar 80
UNFORMATTED BYTE I/O - PATCH 13		44.2.9 F+	Mar 80
LIST DIRECTED INPUT ERRORS - PATCH 14		44.2.10 M+	Mar 80
DISP='DELETE' OPTION - PATCH 15		44.2.11 M+	Mar 80
FORMATTED RECORD OUTPUT - PATCH 16		44.2.12 M+	Mar 80
CALL ASSIGN CARRIAGE CONTROL - PATCH 18		44.2.13 M+	Mar 80
NON-PLAS VIRTUAL ARRAY INITIALIZATION - PATCH 19		44.2.14 M+	Mar 80
DOCUMENTATION			
FORTRAN IV V2.1 MAINTENANCE RELEASE		44.3.1 N+	Mar 80
INSTALLING FORTRAN IV V2.1 UNDER RT-11 V4		44.3.2 N	Aug 80
FORTRAN IV/RT-11 V2.5			
COMPILER			
ANNOUNCING PDP-11 FORTRAN IV/RT-11 V2.5		45.1.1 N	Sep 80
THE COMPILER INCORRECTLY PARSES SOME EXPRESSIONS IN I/O LISTS	A	45.1.2 M	Nov 80
THE COMPILER INCORRECTLY CONVERTS INTEGER TO BYTE IN LOGICAL EXPRESSIONS	A	45.1.3 M	Nov 80
THE COMPILER GENERATES INCORRECT CODE FOR EQUIVALENCED ARRAYS (PAT 12)		45.1.4 M	Sep 81
OTS			
THE OTS DOES NOT SET DEFAULT CARRIAGE CONTROL FOR SERIAL LINE PRINTER	B	45.2.1 M	Jan 81
THE LUN IS NOT SAVED WHEN AN ERROR OCCURS WHILE OPENING A FILE	B	45.2.2 M	Jul 81
PATCH TO ALLOW THE PLACEMENT OF THE FORTRAN OTS WORK AREA BETWEEN THE PROGRAM'S HIGH LIMIT AND THE BASE OF THE FIRST VIRTUAL OVERLAY FOR PRIVILEGED FORTRAN JOBS	B	45.2.3 F	Feb 81
BOUNDARY CONDITION ON FORMATTED I/O CORRUPTS I/O (PAT 6)	B	45.2.4 M	Mar 81
DEFAULT CARRIAGE CONTROL FOR IMPLIED SEQUENTIAL ACCESS FILES (PAT 7)		45.2.5 M	Jul 81
STANDALONE FORTRAN YIELDS RUN-TIME ERROR 64 (PAT 8)	B	45.2.6 M	Apr 81
DISPOSE = 'KEEP' NOT RECOGNIZED WITH READONLY OPEN PARAMETER (PAT 9)		45.2.7 M	Jul 81
THE DATE ROUTINE DOES NOT PERMIT BYTE ALIGNED PARAMETERS (PAT10)		45.2.8 M	Jul 81
IMPLICIT READ FAILURE MAY HALT PROCESSOR (PAT 11)		45.2.9 M	Jul 81
FPU DOUBLE PRECISION SINE/COSINE MODULE ERRORS (PAT 13)		45.2.10 M	Sep 81
GAMMA V3.1			
FGAMMA-FRAMES 3 TO 10 OF GSA STUDY SOMETIMES CORRUPT		49.2.1 M	Jul 81
DECnet-RT V1.1			
NETGEN			
FULL DUPLEX, EXTENDED MEMORY DUP DRIVER WON'T BUILD		50.3.1 M	Aug 80
DDCMP			
DDCMP BRANCH OUT OF RANGE AND Q ELEMENT RETURN PROBLEMS		50.5.1 M	Aug 80
NSP			
NSP CORRUPTS PHYSICAL LINE ERROR CODE		50.6.1 M	Aug 80

COMPONENT	AUTOPATCH KIT	SEQUENCE	MON/YR
NFT			
NFT INCORRECTLY ALLOCATES RT-11 QUEUE ELEMENTS		50.9.1 M	Jun 80
FAL			
FAL INCORRECTLY ALLOCATES RT-11 QUEUE ELEMENTS		50.10.1 M	Jun 80
FAL MAY HANG ON ASCII TRANSFERS OF UNFILLED BLOCKS		50.10.2 M	Aug 80
FAL WILL NOT ALLOW ACCESS COMPLETE AFTER CONTROL CONNECT		50.10.3 M	Aug 80
NFARS			
DAP ROUTINES DO NOT REPORT PHYSICAL LINE ERRORS		50.11.1 M	Nov 80
DAP ATTEMPTS TO MULTIPLY RETURN BUFFERS ON ERROR		50.11.2 M	Aug 80
DAP SEND ONE CHARACTER ON ZERO LENGTH TRANSMITS		50.11.3 M	Nov 80
DAPAST CLEARS THE USER CHANNEL NUMBER TOO SOON		50.11.4 M	Aug 80
FORTRAN USER INTERFACES			
NOTES ON THE USE OF THE DECnet-RT FORTRAN INTERFACES		50.16.1 M	Jun 80
MACRO USER INTERFACES			
NOTES ON DECnet-RT MACRO PROGRAMMING		50.16.2 N	Jun 80

CTS-300 V6.0

DECFORM V06-00			
PROBLEM WITH DECFORM AND THE VT100		51.04.01 M	Nov 80
DIBOL			
TWO CORRECTIONS TO XCALL PAK/UNPAK		51.05.01 M	Aug 81
DKED			
TWO PROBLEMS WITH DKED		51.07 M	Aug 80
DKED SELECT/CUT AND KEYPAD ERRORS		51.07.02 M	Sep 80
LPTSPL			
TSD SPOOLER GETS CONFUSED		51.09.01 M	Nov 80
SORTM			
SORT SENDS MESSAGES INDISCRIMINATELY		51.14.01 M	Jan 81
SUD			
CORRECTIONS TO DIBOL RUN TIME SYSTEMS		51.16.01 M	Jan 81
PROBLEMS WITH XCALL RENAM AND ERROR 6		51.16.02 M	Feb 81
TDIBOL			
PROBLEM WITH XCALL PAK		51.17 M	Aug 80
PROBLEM UNPACKING DATA		51.17.02 M	Sep 80
TWO CORRECTIONS TO XCALL PAK/UNPAK		51.17.03 M	Aug 81
TSD			
CORRECTIONS TO DIBOL RUN TIME SYSTEMS		51.18.01 M	Jan 81
PROBLEMS WITH XCALL RENAM AND ERROR 6		51.18.02 M	Feb 81
INCORRECT TERMINAL WIDTHS AND CIS PROBLEM		51.18.03 M	Aug 81
CORRECTION TO TSD/XMTSD		51.18.04 M	Sep 81
XMTSD			
CONFLICT BETWEEN XMTSD AND RT-11 OVER CHANNEL 16		51.20 M	Aug 80
CORRECTIONS TO DIBOL RUN TIME SYSTEMS		51.20.02 M	Jan 81
PROBLEMS WITH XCALL RENAM AND ERROR 6		51.20.03 M	Feb 81
PATCH FOR XMTSD WITH CIS		51.20.04 M	Apr 81
INCORRECT TERMINAL WIDTHS AND CIS PROBLEM		51.20.05 M	Aug 81
XMTSD HANGS WHEN LP IS OFF-LINE		51.20.06 M	Sep 81
CORRECTION TO TSD/XMTSD		51.20.07 M	Sep 81
DOCUMENTATION			
CTS-300 VERSION 6 IS RELEASED		51.21 N	Aug 80
TWO RT-11 PATCHES MODIFIED FOR CTS-300 USE		51.21.02 N	Oct 80
RT-11 PATCH TO LS.MAC MODIFIED FOR CTS-300 USE		51.21.03 N	Feb 81
ADDITIONS TO CTS-300 DOCUMENTATION ON PRINT UTILITY		51.21.04 N	Mar 81

COMPONENT	AUTOPATCH KIT	SEQUENCE	MON/YR
LIST OF SEQUENCE NUMBERS FOR CTS-300 V6		51.21.05 N	Mar 81
SOME NOTES ON RT-11 PATCH SEQ 6.13.3 M TO LS.MAC FOR CTS-300 USERS		51.21.06 M	Jul 81
SOME NOTES ON RT-11 PATCH SEQ 6.13.4 M TO LS.MAC FOR CTS-300 USERS		51.21.07 N	Aug 81
SOME NOTES ON RT-11 PATCH SEQ 6.13.5 M TO LS.MAC FOR CTS-300 USERS		51.21.08 N	Aug 81
LS.MAC			
SPECIAL CTS-300 PATCH FOR LS.MAC		51.23.01 M	Feb 81
CORRECTION TO CTS-300 PATCH 11 (SEQ 51.23.1 M) TO LS.MAC		51.23.02 M	Jun 81
SYSTBL.CND			
RT-11 PATCH TO SYSTBL.CND MODIFIED FOR CTS-300 USE		51.25.01 M	Mar 81
RT-11 PATCH SEQ 10.3.2 M TO SYSTBL.CND MODIFIED FOR CTS-300 USE		51.25.02 M	Apr 81
GAMMA-11 V3.0			
BGAMMA/FGAMMA			
PROBLEMS WITH GAMMA-11 V3.0		54.1.1 M	Jun 81
FGAMMA-FRAMES 3 TO 10 OF GSA STUDY SOMETIMES CORRUPT		54.1.2 M	Jul 81
ISOMETRIC DISPLAY IMAGES USE INCORRECT INTENSITY LEVELS		54.1.3 M	Sep 81
CTS-300 DICAM (3271) V3.1			
INCORRECT ACK SENT IN CONVERSATIONAL MODE		55.1.1 M	Jul 81
LOOP WHEN CLOSE IS ISSUED WITH OUTSTANDING I/O REQUESTS		55.1.2 M	Jul 81
CTS-300 RDCP (2780/3780) V2.0			
ABNORMAL TERMINATION AND LISTING PROBLEMS		56.1.1 M	Dec 80
SUBSCRIPT ERROR IN RDCP EDITOR		56.1.2 M	Dec 80
MEMORY CORRUPTION PROBLEM		56.1.3 M	Dec 80

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