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**THE
SOFTWARE
DISPATCH**

digital

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

APL-11 V1
BASIC-11/RT-11 V2
BASIC/RT Extensions V1
CTS-300 V5
DECnet/RT V1, V1.1
FOCAL/RT-11 V1B
FORTRAN Graphics
Package V1.1

FORTRAN/RT-11 Extensions V2.1
FORTRAN IV/RT-11 V2, V2.1
GAMMA-11 F/B V2C, V3
Lab Applications-11 LIBRARY V3
LSP-11 V1
MSB11 V1
MSB/FORTRAN IV V1
MU BASIC-11/RT-11 V2

PLOT 11/RT-11 V1.1
RT-11 V3B, RT-11 V4
RT-11 (CTS-300) LSI-11
2780 V2
RT-11/2780
(CTS-300/2780) V2
SSP-11/RT-11 V1.1

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Eleanor F. Hunter, Editor
Ann Owens, Associate Editor

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SPR USER LETTER

Submitted by Sheila Hatchell, 8/11 Administration

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

How to Make the Best Use of the SPR Form

What We Can Do for You:

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

What You Can Do for Us:

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 For security SPRs, it is imperative that the DO NOT PUBLISH box be marked.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

NOTICE!

The following section contains articles for RT-11 V4.0

RT-11 V4.0
Monitor Patches
RT-11FB (S) V04.00C
RT-11XM (S) V04.00E

Seq 1.1.6 M

1 of 2

TYPING ^U WHILE IN A ^X SEQUENCE UNDER A SYSTEM JOB (LCP)

Under monitors SYSGENed for system job support, without multi-terminal support, typing a CTRL/U while in a CTRL/X sequence will cause the system to halt. In the CTRL/X processor, a register is improperly setup prior to calling the routine to reset the CTRL/X database in response to a CTRL/U.

1. The following is a required patch to the RT-11 monitor source file RMONFB.MAC. You must apply it to the uncommented source supplied with the Version 4 distribution kit. You must apply it to the updated copy previously modified in Seq 1.1.3 M.

To install the patch, first create a patch file for input to the SLP utility. Using an editor, create a file called RMONFB.004 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>== 5/.,./;004/  
ELRMFB<tab>== 6  
-2415,2415,./;004/  
<tab>JMP<tab>TTOPT4  
-2470,./;004/  
<tab>DEC<tab>R3  
/
```

2. The following is a required patch to the RT-11 monitor source file BSTRAP.MAC. You must apply it to the uncommented source file supplied with the Version 4 distribution kit. You must apply it to the updated copy previously modified in Seq 1.1.5 M.

To install the patch, first create a patch file for input to the SLP utility. Using an editor, create a file called BSTRAP.006 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>== 11/.,./;006/  
ELBSTR<tab>== 12  
-27,27,./;006/  
PATLFX<tab>= 2  
/
```

RT-11 V4.0
Monitor Patches
RT-11FB (S) V04.00C
RT-11XM (S) V04.00E

Seq 1.1.6 M
2 of 2

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

```
.R SLP
*RMONFB.MAC=RMONFB.MAC,RMONFB.004
*BSTRAP.MAC=BSTRAP.MAC,BSTRAP.006
?SLP-W-Audit trail overwrites line
PATLAL      =2
*^C
```

(CTRL/C to exit)

4. 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 repeat the relevant assembly and link steps. Be sure to use the correct version of SYCND.MAC and to relink with the correct OBJ files.

The resulting version of the FB generated monitor will be RT-11FB (S) V04.00D. The resulting version of the XM generated monitor will be RT-11XM (S) V04.00F.

5. Preserve the patched source files. If there are any corrections to these files in the future, you will need to apply them to the patched source file.

RT-11 V4.0
Monitor Patches
RT-11XM (S) V04.00E
RT-11FB (S) V04.00D
RT11FB V04.00B

Seq 1.1.7 M

1 of 3

ABNORMAL TERMINATION OF FG JOB WHICH IS USING CSI (LCP)

If a foreground job is using the CSI and passing the file specification string from an in-memory buffer rather than getting it from the console terminal and the background job is using the CSI with non-terminating .GTIN (LINK and LIBR with /PROMPT option), the foreground job will terminate after processing the CSI input string.

1. The following is a required patch to the RT-11FB V04.00B (distributed) foreground background monitor. It must be installed in all updated copies of RT11FB.SYS (previously modified in Seq 1.1.5 M).

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

This patch is installed 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 the editor, create an indirect command file called RT11FB.003 on your system volume. Replace 'DK:' in the patch below with the name of the device that contains the monitor file.

```
R SIPP
DK:RT11FB.SYS/A/C
0
42212
116703
173104
1403
52737
10
44
5711
1402
167
374
^Y
133217
^C
```

(up-arrow/Y)

(up-arrow/C)

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

@RT11FB.003

The resulting version of the monitor will be RT-11FB V04.00C.

RT-11 V4.0
Monitor Patches
RT-11XM (S) V04.00E
RT-11FB (S) V04.00D
RT11FB V04.00B

Seq 1.1.7 M

2 of 3

3. If you are using the foreground background monitor after the appropriate patch has been made, copy the bootstrap 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 monitor source file RMONFB.MAC. You must apply it to the uncommented source supplied with the Version 4 distribution kit. It must be installed in all updated copies of RMONFB.MAC (previously modified in Seq 1.1.6 M).

To install the patch, first create a patch file for input to the SLP utility. Using an editor, create a file called RMONFB.005 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>== 6/.,./;005/
ELRMFB<tab>== 7
-1509,1509,/;005/
<tab>MOVB<tab>JOBNUM,R3
-1511,1512,/;005/
<tab>BIS<tab>#GTLIN$,e#JSW
3$:<tab>TST<tab>@R1
-1514,1514,/;005/
<tab>JMP<tab>EMTUSR
/
```

5. The following is a required patch to the RT-11 monitor source file BSTRAP.MAC. You must apply it to the uncommented source file supplied with the Version 4 distribution kit. It must be installed in all updated copies of BSTRAP.MAC (previously modified in Seq 1.1.6 M).

To install the patch, first create a patch file for input to the SLP utility. Using an editor, create a file called BSTRAP.007 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>== 12/.,./;007/
ELBSTR<tab>== 13
-27,27,/;007/
PATLFX<tab>= 3
/
```

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

```
.R SLP
*RMONFB.MAC=RMONFB.MAC,RMONFB.005
*BSTRAP.MAC=BSTRAP.MAC,BSTRAP.007
*^C                                     (CTRL/C to exit)
```

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RT-11 V4.0

Seq 1.1.7 M

Monitor Patches

RT-11XM (S) V04.00E

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RT-11FB (S) V04.00D

RT11FB V04.00B

7. 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 repeat the relevant assembly and link steps. Be sure to use the correct version of SYCND.MAC and to relink with the correct OBJ files.

The resulting version of the FB generated monitor will be RT-11FB (S) V04.00E. The resulting version of the XM generated monitor will be RT-11XM (S) V04.00F.

8. Preserve the patched source files. If there are any corrections to these files in the future, you will need to apply them to the patched source file.

RT-11 V4.0
Device Handler Sources
LP.MAC

Seq 6.12.1 M

1 of 2

Supersedes article dated Aug. 80

LP SET NOHANG MAY CRASH SYSTEM (LCP)

** Replacement Article for patch Seq 6.12.1 M published in August 1980. The following article is correct, and should be installed instead of the article published in August 1980.

If the LP handler is set NOHANG and the line printer is taken off-line while in operation, the system may crash under certain conditions.

1. The following is a required patch to the RT-11 device handler source file LP.MAC. You must apply it to the uncommented sources supplied with the Version 4 distribution kit and then rebuild your handler. You must apply this patch if you use the LP handler, whether or not you have performed a system generation.

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

2. To install the patch, you must first create a patch file for input to the SLP utility. Using an editor, create a file called LP.001 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 space in the text should be entered in the file as single SPACE characters.

```
-/  
-22,/,;001/  
ELLP<tab>== 1  
-112,/,;001/  
.SBTIL<tab>DRIVER EDIT LEVEL  
.ASECT  
.=110  
.WORD<tab>ELLP  
-124,/,;001/  
<tab>MOV<tab>LPCQE,R4  
/  

```

3. Apply the patch to the source file as follows:

```
.R SLP  
*LP.MAC=LP.MAC,LP.001  
*^C  
(CTRL/C to exit)
```

RT-11 V4.0
Device Handler Sources
LP.MAC

Seq 6.12.1 M

2 of 2

Supersedes article dated Aug. 80

4. Now issue the following commands. In these commands, the notation xxx represents the SYCND file type, either DIS for distributed, or MAC for system generated.

```
.MACRO SYCND.xxx+LP.MAC/OBJ  
.LINK/EXECUTE:LP.SYS LP
```

To create the handler for an XM monitor issue the following commands. Use the SYCND file you created with SYSGEN.

```
.MACRO XM+SYCND+LP/OBJ  
.LINK/EXECUTE:LPX.SYS LP
```

NOTE: You must now either reboot or REMOVE and INSTALL your LP handler.

5. Preserve the patched handler source file. If there are any future corrections to LP.MAC, you will be required to apply them to the patched source file.

RT-11 V4.0
Device Handler Sources
LS.MAC

Seq 6.13.1 M

1 of 2

Supersedes article dated Aug.80

LS SET NOHANG MAY CRASH SYSTEM (LCP)

****Replacement Article for patch Seq 6.13.1 M published in August 1980. The following article is correct, and should be installed instead of the article published in August 1980.**

If the LS handler is set NOHANG and the printer is taken off-line while in operation, the system may crash under certain conditions.

1. The following is a required patch to the RT-11 device handler source file LS.MAC. You must apply it to the uncommented sources supplied with the Version 4 distribution kit and then rebuild your handler. You must apply this patch if you use the LS handler, whether or not you have performed a system generation.

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

2. To install the patch, you must first create a patch file for input to the SLP utility. Using an editor, create a file called LS.001 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 space in the text should be entered in the file as single SPACE characters.

```
-/  
-22,,/;001/  
ELLS<tab>== 1  
-116,,/;001/  
.SBTTL<tab>DRIVER EDIT LEVEL  
.ASECT  
.=110  
<tab>.WORD<tab>ELLS  
-154,,/;001/  
<tab>MOV<tab>LSCQE,R4  
/  

```

3. Apply the patch to the source file as follows:

```
.R SLP  
*LS.MAC=LS.MAC,LS.001  
*^C (CTRL/C to exit)
```

4. Now issue the following commands. In these commands, the notation xxx represents the SYCND file type, either DIS for distributed, or MAC for system generated.

```
.MACRO SYCND.xxx+LS.MAC/OBJ  
.LINK/EXECUTE:LS.SYS LS
```

To create the handler for an XM monitor issue the following commands. Use the SYCND file you created with SYSGEN.

RT-11 V4.0
Device Handler Sources
LS.MAC

Seq 6.13.1 M

2 of 2

Supersedes article dated Aug.80

.MACRO XM+SYCND+LS/OBJ
.LINK/EXECUTE:LSX.SYS LS

NOTE: You must now either reboot or REMOVE and INSTALL you LS handler.

5. Preserve the patched handler source file. If there are any future corrections to LS.MAC, you will be required to apply them to the patched source file.

RT-11 V4.0
Device Handler Sources
TM.MAC

Seq 6.20.3 M

1 of 2

INCORRECT READ ERROR RECOVERY IN MT HANDLER (SD)

If a CRC READ error occurs in the MT mag-tape handler, the recovery algorithm is prematurely aborted due to a corrupted register. The following patch will correct this problem.

1. The following is a required patch to the RT-11 device handler source file TM.MAC. You must apply it to the updated uncommented sources (previously modified in Seq. 6.20.1) and then rebuild your handler. You must apply this patch if you use the TM handler, whether or not you have performed a system generation.

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

2. To install the patch, you must first create a patch file for input to the SLP utility. Using an editor, create a file called TM.002 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 character.

```
-/ELTM<tab>== 1/.,./;002/  
ELTM<tab>== 2  
.SBTTL<tab>DRIVER EDIT LEVEL  
.ASECT  
.=110  
<tab>.WORD<tab>ELTM  
.PSECT  
-557,557,/;002/  
PTCH:<tab>MOV<tab>@#MTS,R4  
-678,678,/;002/  
<tab>BEQ<tab>FOO  
-689,/;002/  
FOO:<tab>JMP<tab>PTCH  
/  

```

3. Apply the patch to the source file as follows:

```
.R SLP  
*TM.MAC=TM.MAC,TM.002  
*^C  
                                (CTRL/C to exit)
```

4. Now issue the following commands to create the file-structured MT handler. In these commands, the notation xxx represents the SYCND file type, either DIS for distributed, or MAC for system generated.

```
.MACRO SYCND.xxx+TM/OBJ  
.MACRO SYCND.xxx+FSM/OBJ  
.LINK/EXECUTE:MT.SYS TM,FSM
```

RT-11 V4.0
Device Handler Sources
TM.MAC

Seq 6.20.3 M

2 of 2

To create the file-structured MT handler for an XM monitor issue the following commands. Use the SYCND file you created with SYSGEN.

```
.MACRO XM+SYCND+TM/OBJ:TMX  
.MACRO XM+SYCND+FSM/OBJ:FSMX  
.LINK/EXECUTE:MTX.SYS TMX,FSMX
```

Issue the following commands to create the non file-structured MT handler. In these commands, the notation xxx represents the SYCND file type, either HD for distributed, or MAC for system generated.

```
.MACRO SYCND.xxx+TM/OBJ  
.LINK/EXECUTE:MTHD.SYS TM
```

To create the non file-structured MT handler for an XM monitor issue the following commands. Use the SYCND file you created with SYSGEN.

```
.MACRO XM+SYCND+TM/OBJ:TMX  
.LINK/EXECUTE:MTHDX.SYS TMX
```

NOTE: You must now either reboot or REMOVE and INSTALL your MT handler.

5. Preserve the patched handler source file. If there are any future corrections to TM.MAC, you will be required to apply them to the patched source file.

RT-11 V4.0
System Utilities
PIP.SAV V07.00

Seq 7.1.1 M

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ERRORS IN PIP (JM)

The following are errors in PIP V07.00:

- . The system may crash if the disk copy of PIP is replaced while PIP is running.
- . The PRINT/DELETE command produces erroneous error messages if QUEUE is not running.
- 1. The following is a required patch to the PIP.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 PIP.SAV is on a mounted volume. Using the editor, create an indirect command file called PIP.001 on your system volume. Replace 'DK:' in the patch below with the name of the device that contains the program file.

RUN SIPP
DK:PIP.SAV/A/C

0

3632

101

^Z

(up-arrow/Z)

5046

4767

336

12767

3702

174224

167

36

75250

62570

0

73376

^Z

(up-arrow/Z)

5410

12700

1302

5767

174466

1401

4736

13700

54

5060

256

12700

RT-11 V4.0
System Utilities
PIP.SAV V07.00

Seq 7.1.1 M
2 of 3

1417	
104374	
12700	
5064	
104037	
103014	
12700	
1422	
112710	
177760	
112760	
306	
1	
5060	
10	
4767	
176332	
104350	
167	
177324	
^Z	(up-arrow/Z)
6674	
4767	
3304	
^Z	(up-arrow/Z)
10704	
20527	
^Z	(up-arrow/Z)
11704	
10360	
^Z	(up-arrow/Z)
12076	
1405	
^Z	(up-arrow/Z)
12204	
12700	
17	
12701	
5064	
4767	
177476	
12701	
7	
207	
^Z	(up-arrow/Z)
17724	
103004	
^Y	(up-arrow/Y)
100001	
^C	(up-arrow/C)

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

@PIP.001

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System Utilities
PIP.SAV V07.00

Seq 7.1.1 M

3 of 3

The resulting version of the utility will be PIP V07.00A.

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

RT-11 V4.0
System Utilities
PIP.SAV

Seq 7.1.2 N
1 of 1

COPY/PREDELETE COMMAND (JM)

For RT-11 V4.0 the use of the COPY/PREDELETE command requires that the input and output filespecs be different. Input files will be lost when issuing a COPY/PREDELETE command where the input and output filespecs are the same. For example:

COPY/PREDELETE FILE.MAC FILE.MAC

deletes the file FILE.MAC on DK: and a file not found error message is displayed on the console.

RT-11 V4.0
System Utilities
FILEX.SAV V04.00C

Seq 7.11.2 M

1 of 1

FILEX CREATES ZERO FILLED INTERCHANGE RECORDS (DF)

When FILEX creates records in interchange format, it zero fills each record. For compatibility with IBM equipment, these records should be filled with spaces (Hex 40) from the end of the RT-11 record to the last position of the output record.

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. Using an editor, create an indirect command file called FILEX.002 on your system volume. Replace 'DK:' in the patch below with the name of the device that contains the program file.

```
RUN SIPP
DK:FILEX.SAV/A/C
0
2674
104
^Z                               (up-arrow/Z)
15102
11620
^Z                               (up-arrow/Z)
20160
112700
40
11667
162160
^Y                               (up-arrow/Y)
100532
^C                               (up-arrow/C)
```

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

@FILEX.002

The resulting version of the utility will be FILEX V04.00D.

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

RT-11 V4.0
Documentation
RT-11 Programmer's Reference Manual

Seq 11.8.1 N

1 of 1

DOCUMENTATION CORRECTIONS (JP)

The corrections presented in this article pertain to the RT-11 Programmer's Reference Manual.

Change pages incorporating the corrections will be released at a later date.

RT-11 PROGRAMMER'S REFERENCE MANUAL

On page 2-52, in the description of the .GTLIN programmed request, replace the first sentence of the second paragraph with the following:

"When bit 3 of the Job Status word is set, the .GTLIN request collects subsequent lines from the terminal when your program encounters a CTRL/C in the indirect command file. Note that if you then clear bit 3 of the Job Status word, the next line collected by the .GTLIN request is the CTRL/C in the indirect command file; this causes the program to abort. Further input will come from the indirect command file, if there are any more lines in it."

RT-11 Software Dispatch, September 1980

FORTTRAN IV/RT-11 V2.5
for RT-11 V4
COMPILER

Seq 45.1.1 N

1 of 1

ANNOUNCING PDP-11 FORTRAN IV/RT-11 V2.5 (RA)

PDP-11 FORTRAN IV/RT-11 V2.5 is now available for RT-11 V4 users. Version 2.5 is a maintenance release of this product. It does not include any new language features. It does, however, include fixes to a number of known problems and brings the product to the same revision level across all host operating systems.

Post-warranty Software Product Services are available for FORTRAN IV. Those customers who presently have SPS coverage for this product will automatically receive Version 2.5.

CTS-300 V06
DKED V06-00A
(PATCH 4)

Seq 51.7.2 M

1 of 5

DKED SELECT/CUT AND KEYPAD ERRORS (LG)

1. When editing, if the <SELECT> key is used after the last character on a line and the <CUT> function is then used at any point between the beginning and the end of the following or the previous line, characters other than those selected are cut.

Patch 2 causes the chosen characters to be cut under the above conditions.

2. If the QUIT command is used and DKED terminates with the message "?DKED-F-illegal command sequence. Please start over", the keypad is left in keypad mode.

Patch 2 causes the terminal to exit from keypad mode after the QUIT command is used and the above message appears. The version number of DKED changes to V06-00B.

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

Corrections are made to the source modules using the SLP (Source Language Patch) program. Please note that the last record in both P004B.PAT and P004C.PAT is "/". You must terminate each line in both files with a carriage return, including the last line "/".

CTS-300 V06
DKED V06-00A
(PATCH 4)

Seq 51.7.2 M

2 of 5

#P004A.MAC

```

        .TITLE   CUT2
        .PSECT   CUT2
        .GLOBL   CUT2

        TEMP     =          0
        TAB       = TEMP    +^D32
        TABLE    = TAB     +^D14
P004:
        .=.+102
        JSR      PC,P004A
        .=.+154
        JSR      PC,P004B
        NOP

        .PSECT   $P004

P004A:  BIC      #177400,R3
        MOV      R3,TEMP+6(R1)
        RTS      PC

P004B:  MOVB     #'6,@14(SP)
        MOVB     TABLE+104(R1),R2
        MOV      TEMP+6(R1),R3
        BIC      #177400,R3
        ADD      R2,R3
        MOVB     R3,TABLE+104(R1)
        RTS      PC

        .END

```

#P004B.PAT

```

-205,205
\
    DIS1,    A12,'DKED V06-00B'
/

```

#P004C.PAT

```

-226,226
\
    DISPLAY (2,DIAC7)
/

```

RT-11 Software Dispatch, September 1980

CTS-300 V06
DKED V06-00A
(PATCH 4)

Seq 51.7.2 M

3 of 5

.LIBRARY/EXTRACT
Library? EDLIB
File ? CUT2
Global? CUT2
Global? <CR>

.RENAME (STRTO,DQUIT).DBL *.OLD
Files renamed:
DK:STRTO.DBL to DK:STRTO.OLD
DK:DQUIT.DBL to DK:DQUIT.OLD

.RENAME (CUT2,EDLIB).OBJ *.OLD
Files renamed:
DK:CUT2.OBJ to DK:CUT2.OLD
DK:EDLIB.OBJ to DK:EDLIB.OLD

,MACRO P004A
ERRORS DETECTED: 0

.R PAT
*CUT2.OBJ=CUT2.OLD/C:057526,P004A/C:022476

.R LIBR
*EDLIB.OBJ/A=EDLIB.OLD,CUT2/R
*^C

.R SLP
*STRTO.DBL=STRTO.OLD,P004B.PAT
*DQUIT.DBL=DQUIT.OLD,P004C.PAT
*^C

.R DICOMP
*STRTO=STRTO/O

NO ERRORS DETECTED
*DQUIT=DQUIT/O

NO ERRORS DETECTED
*^C

CTS-300 V06
DKED V06-00A
(PATCH 4)

Seq 51.7.2 M

4 of 5

```
.R LINK
*DKED=DKED,EDLIB,DIBOL/P:500.//
*COMND/O:1
*COMN2/O:1
*CUTA,CUTB/O:1
*CUTC,TOFB/O:1
*CUTD/O:1
*CUTD0,BEOL/O:1
*DELLN/O:1
*DLCH4,D2CHA/O:1
*D3CHA/O:1
*DQUIT,DSCL1/O:1
*DROPN,SWORD/O:1
*FINDS/O:1
*FIND1/O:1
*HCOMN/O:1
*HELPC/O:1
*HELPD,DEXIT/O:1
*HELPE,CUTD2/O:1
*HWILD/O:1
*PAGE2/O:1
*PASTE/O:1
*REPLC/O:1
*RETRN/O:1
*SECTN,APNDA/O:1
*STRTO/O:1
*STRT1/O:1
*STRT2/O:1
*WPAGE/O:1
*XCASE,LINSP,RESEL,UNDEL/O:1
*CUTC1,CRSTR,UDLCH/O:1
*YANK,ZTARG/O:1
*//
*^C
```

CTS-300 V06
DKED V06-00A
(PATCH 4)

Seq 51.7.2 M

5 of 5

```
.R LINK
*DKED.TSD/B:100000=DKED,EDLIB,TDIBOL/P:500.//
*COMND/O:1
*COMN2/O:1
*CUTA,CUTB/O:1
*CUTC,TOPE/O:1
*CUTD/O:1
*CUTDO,BEOL/O:1
*DELLN/O:1
*DLCH4,D2CHA/O:1
*D3CHA/O:1
*DQUIT,DSCL1/O:1
*DROPN,SWORD/O:1
*FINDS/O:1
*FIND1/O:1
*HCOMN/O:1
*HELPC/O:1
*HELFD,DEXIT/O:1
*HELPE,CUTD2/O:1
*HWILD/O:1
*PAGE2/O:1
*PASTE/O:1
*REPLC/O:1
*RETRN/O:1
*SECTN,APNDA/O:1
*STRT0/O:1
*STRT1/O:1
*STRT2/O:1
*WPAGE/O:1
*XCASE,LINSP,RESEL,UNDEL/O:1
*CUTC1,CRSTR,UDLCH/O:1
*YANK,ZTARG/O:1
*//
*^C

.R REDUCE
*DKED/N
*^C

.
```

CTS-300 V06
TDIBOL
(PATCH 5)

Seq 51.17.2 M

1 of 2

PROBLEM UNPACKING DATA (LG)

When using the UNPAK external subroutine under Time-Shared DIBOL to unpack decimal data fields a TRAP to 4 may result.

Patch 5 corrects this problem so that packed fields may be unpacked.

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

CTS-300 V06
 TDIBOL
 (PATCH 5)

Seq 51.17.2 M
 2 of 2

#P005.MAC

```
.TITLE   PAKING
.CSECT
DSP=%4
SORC=%3
DEST=%2
TRAP0=104400
```

P005:

```
.=.+616
MOV      P005,-(DSP)
MOV      P005+10,-(DSP)
JSR      PC,P005A
NOP
```

```
.PSECT $P005
```

P005A:

```
MOV      #3,R1
TRAP0
MOV      R1,DEST
MOV      R1,SORC
SUB      P005+12,SORC
ADD      P005+14,SORC
RTS      PC
.END
```

```
.MACRO P005
ERRORS DETECTED: 0
```

```
.RENAME (PACKER,TDIBOL).OBJ *.OLD
Files renamed:
DK:PACKER.OBJ to DK:PACKER.OLD
DK:TDIBOL.OBJ to DK:TDIBOL.OLD
```

```
.R PAT
*PACKER.OBJ=PACKER.OLD/C:031131,P005/C:015772
```

```
.R LIBR
*TDIBOL.OBJ/A=TDIBOL.OLD,PACKER/R
*~C
```

RT-11 V4.0
CUMULATIVE INDEX
SEPTEMBER 1980

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.

<u>Component</u>	<u>Sequence</u>	<u>Mon/Yr</u>
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IMPLEMENTING INTERNAL HANDLER QUEUEING IN FB AND XM MONITORS	1.1.2 M	Jul 80
ADDING HIGH SPEED RING BUFFER SUPPORT	1.1.3 M	Jul 80
CORRUPTION OF CSI TEXT UNDER XM MONITOR	1.1.4 M	Jul 80
MISSING COLON IN BOOT XX CAUSES SYSTEM HALT	1.1.5 M	Jul 80
TYPING ^U WHILE IN A ^X SEQUENCE UNDER A SYSTEM JOB	1.1.6 M	Sep 80
ABNORMAL TERMINATION OF FG JOB WHICH IS USING CSI	1.1.7 M	Sep 80
<u>DEVICE HANDLER SOURCES</u>		
DD.MAC		
DD PRIMARY BOOTSTRAP PROBLEM	6.4.1 M	Jul 80
DD.MAC		
ERRORS IN DM OFFSET POSITIONING AND ERROR LOGGING	6.6.1 M	Jul 80
LP.MAC		
LP SET NOHANG MAY CRASH SYSTEM	6.12.1 M	Sep 80
LS.MAC		
LS SET NOHANG MAY CRASH SYSTEM	6.13.1 M	Sep 80
TM.MAC		
BUFFER CLEARING ON SHORT READ IN XM MONITOR	6.20.1 M	Jul 80
LINKING AN XM, NON-FILESTRUCTURED TS HANDLER GENERATES AN UNDEFINED GLOBAL	6.20.2 M	Aug 80
INCORRECT READ ERROR RECOVERY IN MT HANDLER	6.20.3 M	Sep 80
<u>SYSTEM UTILITIES</u>		
PIP.SAV		
ERRORS IN PIP	7.1.1 M	Sep 80
COPY/PREDELETE COMMAND	7.1.2 N	Sep 80

<u>Component</u>	<u>Sequence</u>	<u>Mon/Yr</u>
DUP.SAV		
MISSING COLON IN BOOT XX CAUSES SYSTEM HALT	7.2.1 M	Jul 80
SQUEEZE CREATES <UNUSED> ENTRIES OF LENGTH ZERO BEFORE .BAD FILES	7.2.2 M	Aug 80
DIR.SAV		
DIR/OUT COMMAND PRODUCES DEVICE NOT ACTIVE MESSAGE	7.3.1 M	Jul 80
RESORC.SAV		
RESORC MAY REPORT INCORRECT JOB NAMES ON A SHOW JOBS COMMAND	7.5.1 M	Aug 80
LINK.SAV		
LINK BYTE RELOCATION AND DIRECTORY SIZE	7.9.1 M	Jul 80
LINK MAP PROCESSING ERROR	7.9.2 M	Aug 80
LIBR.SAV		
A LIBR COMMAND WITH NO FILE-SPEC CAN CAUSE A SYSTEM CRASH	7.10.1 M	Jul 80
FILEX.SAV		
FILEX WILDCARD TRANSFERS CAUSE MONITOR TRAP	7.11.1 M	Aug 80
FILEX CREATES ZERO FILLED INTERCHANGE RECORDS	7.11.2 M	Sep 80
SRCCOM.SAV		
COMPARING TWO FILES MAY CAUSE TRAP TO 4	7.12.1 M	Aug 80
SIPP.SAV		
CORRUPTION OF MULTI-BLOCK LOG FILES	7.16.1 M	Jul 80
PAT.SAV		
USE OF THE PAT UTILITY WITH RT-11 V3B PATCHES	7.17.1 N+	Mar 80
<u>DOCUMENTATION</u>		
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
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
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
RT-11 SYSTEM MESSAGE MANUAL		
RT-11 V4.0 DOCUMENTATION CORRECTIONS AND ADDITIONS	11.6.1 N	Jul 80
RT-11 POCKET GUIDE		
RT-11 V4.0 DOCUMENTATION CORRECTIONS AND ADDITIONS	11.7.1 N	Jul 80
RT-11 PROGRAMMER'S REFERENCE MANUAL		
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RT-11 V4.0 DOCUMENTATION CORRECTIONS AND ADDITIONS	11.9.1 N	Jul 80
<u>KEYPAD EDITOR</u>		
KED		
MAKE TERMINAL SETUP OPTIONAL IF MTATCH FAILS	17.1.1 F	Aug 80
PROVIDE A .CHAIN INTERFACE FOR KED	17.1.2 F	Aug 80
PROVIDE REASONABLE ACTIONS AND ERROR MESSAGES WHEN DEALING WITH DEGENERATE FILES	17.1.3 M	Aug 80
K52		
MAKE TERMINAL SETUP OPTIONAL IF MTATCH FAILS	17.2.1 F	Aug 80
PROVIDE A .CHAIN INTERFACE FOR K52	17.2.2 F	Aug 80
PROVIDE REASONABLE ACTIONS AND ERROR MESSAGES WHEN DEALING WITH DEGENERATE FILES	17.2.3 M	Aug 80

<u>Component</u>	<u>Sequence</u>	<u>Mon/Yr</u>
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BASIC-11/RT-11 V2.0		
INTERPRETER		
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RESEQ - PATCH B	35.1.3 M+	Mar 80
EDITING A DIM #n STATEMENT - PATCH C	35.1.4 M+	Mar 80
DOUBLE PRECISION HANG - PATCH D	35.1.5 M+	Mar 80
SAVE dev: AND REPLACE dev: - PATCH E	35.1.6 M+	Mar 80
SINGLE PRECISION HANG AND NUMERIC CONVERSION PROBLEM - PATCH F	35.1.7 M+	Mar 80
SAVE .XXX & UNSAVE .XXX - PATCH G	35.1.8 M+	Mar 80
NEW - PATCH H	35.1.9 M+	Mar 80
RESEQ - PATCH I	35.1.10 M+	Mar 80
LISTNH / OLD - PATCH J	35.1.11 M+	Mar 80
SYS(1) - PATCH K	35.1.12 M+	Mar 80
CALL - PATCH L	35.1.13 M+	Mar 80
DOUBLE PRECISION INTEGER VARIABLES - PATCH M	35.1.14 M+	Mar 80
FILESIZE 0 - PATCH N	35.1.15 M+	Mar 80
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CONVERSION PROGRAM	35.2.1 M+	Mar 80
BASIC-11/RT-11 V2 CONVERSION PROGRAM PATCH 1	35.2.2 M+	Mar 80
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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
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INTERPRETER		
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RESEQ - PATCH D	36.1.4 M+	Mar 80
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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
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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
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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

<u>Component</u>	<u>Sequence</u>	<u>Mon/Yr</u>
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 MANIPULATION IN ASSEMBLY LANGUAGE ROUTINES	36.3.7 N+	Mar 80
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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
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FORTRAN FAILS TO COMPILE DO-LOOPS - PATCH 11	44.1.5 M+	Mar 80
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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 ERRST - 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
DECnet-RT V1.1		
NETGEN		
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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
NFT		
NFT INCORRECTLY ALLOCATES RT-11 QUEUE ELEMENTS	50.9.1 M	Jun 80

<u>Component</u>	<u>Sequence</u>	<u>Mon/Yr</u>
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	Aug 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	Aug 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 V06		
DKED		
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DKED SELECT/CUT AND KEYPAD ERRORS	51.7.2 M	Sep 80
TDIBOL		
PROBLEM WITH XCALL PAK	51.17 M	Aug 80
PROBLEM UNPACKING DATA	51.17.2 M	Sep 80
XMTSD		
CONFLICT BETWEEN XMTSD AND RT-11 OVER CHANNEL 16	51.20 M	Aug 80
DOCUMENTATION		
CTS-300 VERSION 6 IS RELEASED	51.21 N	Aug 80

CTS-300 V05
DIBOL
TSD VB05-00I
(PATCH 22)

Seq 16 M

1 of 2

CLOSING AN ISAM FILE UNDER TSD (LG)

When a Time-Shared DIBOL program closes an ISAM file, it is possible that the runtime system will hang. However, given the bizarre set of circumstances which causes the system to hang, it is unlikely that most applications would ever experience this problem.

Patch 22 corrects this problem and changes the version number of TSD to VB05-00J.

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-300 V05
DIBOL
TSD VB05-001
(PATCH 22)

Seq 16 M
2 of 2

#P022.MAC

```

        .TITLE $DIO
        .CSECT $DIO
        .GLOBL CLISAM
P022:
        .=.+2472
        JSR     PC,P022A
        .PSECT  $P022
P022A:  JSR     PC,CLISAM
        MOV     (R4),R1
        RTS     PC
        .END

```

#P022V1.MAC

```

        .TITLE  DTO
        .CSECT  DTO

        .=      .+4543
        .ASCII  /I/

        .END

```

.MACRO P022,P022V1
ERRORS DETECTED: 0
ERRORS DETECTED: 0

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

.R PAT
*DI0.OBJ=DI0.OLD/C:157615,P022/C:014271

.R PAT
*DT0.OBJ=DT0.OLD/C:113024,P022V1/C:003170

.R TSDGEN ;FOR NORMAL TSD

RT-11 V3B

Seq 3 M

FEP-11, FORTRAN ENHANCEMENT PACKAGE

(also pertains to: RT-11/FORTRAN UPGRADE PACKAGE FOR MINC)

1 of 3

PROBLEM CALLING SUBROUTINES HAVING NO ARGUMENTS (JG)

PROBLEM:

FDT does not function correctly when a subroutine having no arguments is called. Specifically, variables in the subroutine cannot be located using the documented procedure.

SOLUTION:

The solution consists of applying a patch, via the RT-11 utility program PAT.SAV, to the distributed file FDT.OBJ.

Remember to use a COPY of the distributed version of the software when making these corrections. NEVER modify your distributed software.

The following gives a step-by-step procedure that corrects the problem. In the description, 'dv#' represents the device specification (for example, DK0) indicating where a copy of the current version of the file, FDT.OBJ, can be found. The new corrected file and intermediate files that result from this procedure will be directed to that device also.

Underlined characters in the text represent prompt characters from the operating system or utility routines. The operator should enter all characters in the text that are not underlined.

The symbol '<ESC>' represents the escape (ESC) character, and the symbols '^C' represent the simultaneous entry of the control key (CTRL) and the C key. Each line of operator input that is not terminated by a '^C' or '<ESC><ESC>' should be terminated by entering the RETURN key.

RT-11 V3B

Seq 3 M

FEP-11, FORTRAN ENHANCEMENT PACKAGE

(also pertains to: RT-11/FORTRAN UPGRADE PACKAGE FOR MINC)

2 of 3

The first step of the procedure is to create a source file containing the corrected code. The RT-11 utility program EDIT.SAV is used here for this purpose as follows:

```
.R EDIT
*EWdv*:FDTF1.MAC<ESC><ESC>
*I      .TITLE  FDT
      .CSECT  $FDT
.=.+436
ARTN:   .WORD   0           ;ADDRESS OF ACTIVE ROUTINE
.=.+42
      MOV      (R3)+,R2      ;NUMBER OF FORMAL PARAMETERS
      MOV      @R3,R3        ;POINT TO START OF PARMETER BLOCK
      MOV      R3,ARTN       ;SAVE ADDRESS OF DATA AREA
      MOV      (R5)+,R1      ;NUMBER OF ARGS ACTUALLY PASSED
1$:     DEC      R1          ;CHECK # ARGS PASSED THAT ARE LEFT
      BMI      2$           ;IF NONE, EXIT
      DEC      R2           ;CHECK # ARGS EXPECTED THAT ARE LEFT
      BMI      2$           ;IF NONE, EXIT
      MOV      (R5)+,(R3)+   ;COPY ARG ADDRESSES
      BR       1$           ;LOOP BACK TO CHECK FOR MORE ARGS
      NOP                     ;FILLER
2$:     MOV      (PC)+,R1     ;POINT TO ENTRY PAUSE TABLE
      .END
<ESC><ESC>
*EX<ESC><ESC>
```

⋮

Next, assemble the source file just created using the RT-11 MACRO assembler as follows:

```
.R MACRO
*dv*:FDTF1=dv*:FDTF1
ERRORS DETECTED: 0
*^C
```

⋮

Finally, use the RT-11 system utility PAT.SAV to correct the file FDT.OBJ with the file FDTF1.OBJ.

Note: The checksum value used in this step will differ based on the version of the RT-11 operating system that you are using. Thus two different procedures will be given here.

RT-11 Software Dispatch, September 1980

RT-11 V3B

Seq 3 M

FEP-11, FORTRAN ENHANCEMENT PACKAGE

(also pertains to: RT-11/FORTRAN UPGRADE PACKAGE FOR MINC)

3 of 3

If you are using the PAT.SAV utility distributed with RT-11 V4.0, type the following:

```
.R PAT  
*dv#:FDT=dv#:FDT/C:5035,FDTP1
```

.

If you are using the PAT.SAV utility distributed with RT-11 V3B, type the following:

```
.R PAT  
*dv#:FDT=dv#:FDT/C:177565,FDTP1
```

.

At this point the corrected version of FDT.OBJ resides on device dv# and should function as described in the documentation.

PROBLEM CALLING SUBROUTINES HAVING NO ARGUMENTS (JG)

PROBLEM:

FDT does not function correctly when a subroutine having no arguments is called. Specifically, variables in the subroutine cannot be located using the documented procedure.

SOLUTION:

The solution consists of applying a patch, via the RT-11 utility program PAT.SAV, to the distributed file FDT.OBJ.

Remember to use a COPY of the distributed version of the software when making these corrections. NEVER modify your distributed software.

The following gives a step-by-step procedure that corrects the problem. In the description, 'dv#' represents the device specification (for example, DK0) indicating where a copy of the current version of the file, FDT.OBJ, can be found. The new corrected file and intermediate files that result from this procedure will be directed to that device also.

Underlined characters in the text represent prompt characters from the operating system or utility routines. The operator should enter all characters in the text that are not underlined.

The symbol "<ESC>" represents the escape (ESC) character, and the symbols "^C" represent the simultaneous entry of the control key (CTRL) and the C key. Each line of operator input that is not terminated by a "^C" or "<ESC><ESC>" should be terminated by entering the RETURN key.

The first step of the procedure is to create a source file containing the corrected code. The RT-11 utility program EDIT.SAV is used here for this purpose as follows:

```

.R EDIT
*Evdv#;FDTP1.MAC<ESC><ESC>
*I      .TITLE  FDT
        .CSECT  $FDT

.=.+436
ARTN:   .WORD   0           ;ADDRESS OF ACTIVE ROUTINE
.=.+42
        MOV     (R3)+,R2    ;NUMBER OF FORMAL PARAMETERS
        MOV     @R3,R3      ;POINT TO START OF PARMETER BLOCK
        MOV     R3,ARTN     ;SAVE ADDRESS OF DATA AREA
        MOV     (R5)+,R1    ;NUMBER OF ARGS ACTUALLY PASSED
1$:     DEC      R1         ;CHECK # ARGS PASSED THAT ARE LEFT
        BMI     2$         ;IF NONE, EXIT
        DEC     R2         ;CHECK # ARGS EXPECTED THAT ARE LEFT
        BMI     2$         ;IF NONE, EXIT
        MOV     (R5)+,(R3)+ ;COPY ARG ADDRESSES
        BR      1$         ;LOOP BACK TO CHECK FOR MORE ARGS
        NOP                     ;FILLER
2$:     MOV     (PC)+,R1    ;POINT TO ENTRY PAUSE TABLE
        .END
<ESC><ESC>
*EX<ESC><ESC>

:

```

Next, assemble the source file just created using the RT-11 MACRO assembler as follows:

```

.R MACRO
*dv#;FDTP1=dv#;FDTP1
ERRORS DETECTED: 0
*~C

:

```

Finally, use the RT-11 system utility PAT.SAV to correct the file FDT.OBJ with the file FDTP1.OBJ.

Note: The checksum value used in this step will differ based on the version of the RT-11 operating system that you are using. Thus two different procedures will be given here.

RT-11 Software Dispatch, September 1980

RT-11 V3B
FORTRAN/RT-11 EXTENSIONS V2.1

Seq 4 M

3 of 3

If you are using the PAT.SAV utility distributed with RT-11 V4.0, type the following:

```
.R PAT  
*dv#:FDT=dv#:FDT/C:5035,FDTP1
```

.

If you are using the PAT.SAV utility distributed with RT-11 V3B, type the following:

```
.R PAT  
*dv#:FDT=dv#:FDT/C:177565,FDTP1
```

.

At this point the corrected version of FDT.OBJ resides on device dv# and should function as described in the documentation.

RT-11 V03B-00

SOURCE

TJ.MAC

TM.MAC

Seq 19 M

1 of 1

READ RECOVERY FIX IN MT HANDLER (SPR 11-30776 SD)

The MT handler incorrectly recovers from CRC errors on read operations. In addition these patches correct an undefined global in the XM MT and MM handlers caused by a previous article.

```
.R EDIT <RET>
*EBTJ.MAC<ESC>RV<ESC><ESC>
; TJ EDIT LEVEL 6.
*G6<ESC>=C7<ESC>V<ESC><ESC>
; TJ EDIT LEVEL 7.
*FQ$PAR<ESC>V<ESC><ESC>
      ADD      #Q$PAR,@SP
*=C12<ESC>V<ESC><ESC>
      ADD      #12,@SP
*EX<ESC><ESC>

.R EDIT <RET>
*EBTM.MAC<ESC>RV<ESC><ESC>
; TM EDIT LEVEL 5.
*G5<ESC>=C6<ESC>V<ESC><ESC>
; TM EDIT LEVEL 6.
*FCONT:<ESC>2AV<ESC><ESC>
      MOV      @#MTS,R4
*IPTCH:<ESC>V<ESC><ESC>
PTCH:  MOV      @#MTS,R4
*FREEDF:<ESC>V<ESC><ESC>
REEDF: TST      ERRSUM
*AV<ESC><ESC>
      BEQ      NEXT1
*GNEXT1<ESC>=CFOO<ESC>V<ESC><ESC>
      BEQ      FOO
*FBACH2<ESC>V<ESC><ESC>
      BR       BACH2
*A<ESC>IFOO:  JMP      PTCH
<ESC>-2L<ESC><ESC>
      BR       BACH2
FOO:  JMP      PTCH
*FQ$PAR<ESC>V<ESC><ESC>
      ADD      #Q$PAR,@SP
*=C12<ESC>V<ESC><ESC>
      ADD      #12,@SP
*EX<ESC><ESC>

.
```

Note

The magtape handlers can only be generated as described in "Distributed Magtape Handler Corrections (BD)", Seq 03M which was published in the RT-11 September 1978 Software Dispatch.

RT-11 Software Dispatch, September 1980

RT-11 V03B.00
System Utilities
PIP.SAV

Seq 34 N

1 of 1

COPY/PREDELETE COMMAND (JM)

For RT-11 V03B.00 the use of the COPY/PREDELETE command requires that the input and output filespecs be different. Input files will be lost when issuing a COPY/PREDELETE command where the input and output filespecs are the same. For example:

COPY/PREDELETE FILE.MAC FILE.MAC

deletes the file FILE.MAC on DK: and a file not found error message is displayed on the console.

RT-11 V3B
CUMULATIVE INDEX
SEPTEMBER 1980

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.

<u>Component</u>	<u>Sequence</u>	<u>Mon/Yr</u>
BASIC-11/RT-11 V2		
RESEQUENCE PRODUCES AN INCORRECT PROGRAM UNDER CERTAIN CONDITIONS	01 M	Aug 78
PRINT USING	02 M	Jun 78
MAX SIZE OF LINE ENTERED TO BASIC-11	03 M	Jun 78
REM STATEMENT CONTAINING LEFT PARENTHESIS CAUSES SUBSEQUENT SPACES		
AND PERIODS TO BE REMOVED	04 R	Jun 78
RUN (NH) COMMAND MAY GIVE AN ERROR MESSAGE	05 M	Jul 78
TERMINAL MAY HANG	06 M	Jul 78
DATA FILES	07 M	Jul 78
SAVE DEV: AND REPLACE DEV:	08 M	Jul 78
SINGLE PRECISION HANG AND NUMERIC CONVERSION PROBLEM (PATCH F)	09 M	Aug 78
CONVERSION PROGRAM	10 M	Sep 78
OVERLAYING WHILE IN A SUBROUTINE	11 R	Nov 78
OPERATION OF CTRL/C, AND RCTRL AND SYS (6) FUNCTIONS AND THE		
CTRL/C COMMAND	12 N	Nov 78
BASIC-11/RT-11 V2 CONVERSION PROGRAM PATCH 1	13 M	Feb 79
OPERATION OF OLD, RUN, CHAIN AND OVERLAY WHEN THE SPECIFIED FILE		
IS NOT FOUND	14 N	Feb 79
CREATING AND ACCESSING VIRTUAL ARRAY FILES	15 N	Feb 79
REPUBLICANION OF PATCHES	16 N	Feb 79
PRINT USING - PATCH A	17 M	Feb 79
RESEQ - PATCH B	18 M	Feb 79
EDITING A DIM #n STATEMENT - PATCH C	19 M	Feb 79
DOUBLE PRECISION HANG - PATCH D	20 M	Feb 79
SAVE dev: AND REPLACE dev: - PATCH E	21 M	Feb 79
SINGLE PRECISION HANG AND NUMERIC CONVERSION PROBLEM - PATCH F	22 M	Feb 79
SAVE .XXX & UNSAVE .XXX - PATCH G	23 M	Feb 79
NEW - PATCH H	24 M	Feb 79
STORAGE OF THE NULL CHARACTER IN STRING VARIABLES AND VIRTUAL		
STRING ARRAYS	25 N	Feb 79
USE OF COMPILE COMMAND	26 N	Feb 79
RESEQ - PATCH I	27 M	Mar 79
LISTNH /OLD - PATCH J	28 M	Mar 79
SYS(1) - PATCH K	29 M	Mar 79
CALL - PATCH L	30 M	Mar 79

<u>Component</u>	<u>Sequence</u>	<u>Mon/Yr</u>
DOUBLE PRECISION INTEGER VARIABLES - PATCH M	31 M	May 79
FILESIZE 0 - PATCH N	32 M	May 79
INTEGERS IN DOUBLE PRECISION BASIC-11	33 M	Jul 79
REM STATEMENTS ON MULTI-STATEMENT LINES - PATCH O	34 M	Jul 79
STRING MANIPULATION IN ASSEMBLY LANGUAGE ROUTINES	35 N	Aug 79
MAXIMUM ARRAY SUBSCRIPT SIZE	36 N	Aug 79

CTS-300 V5

DECFORM		
TWO PROBLEMS WITH FOCOMP	01 M	May 79
DIBOL		
TWO PROBLEMS: FILE CORRUPTION POSSIBILITY AND REPETITIVE I/O ERRORS	01 M	Mar 79
OPENING NON-STANDARD HANDLERS	02 M	Apr 79
ANOTHER FILE CORRUPTION POSSIBILITY	03 M	Apr 79
TWO PROBLEMS: OPENING 0 LENGTH FILE IN SUD AND OPENING LP IN I MODE	04 M	Jun 79
LINE PRINTER PROBLEM AND PROBLEM WITH LARGE ISAM FILE	05 M	Jun 79
I/O ERRORS AND PROBLEM WITH FMAC SUBROUTINE	06 M	Jun 79
ISAM FILE CORRUPTION	07 M	Jun 79
SHUFFLE CAUSES TRAP TO 4	08 M	Jul 79
MISLEADING ERROR MESSAGES	09 M	Aug 79
ERRONEOUS I/O ERROR	10 M	Aug 79
TWO PROBLEMS WITH MULTI-VOLUME FILES	11 M	Oct 79
INCORRECT ERROR ON WRITING DUPLICATE FILE TO MAGTAPE	12 M	Dec 79
ACCEPT CAUSES ERRORS	13 M	Mar 80
I-O ERROR ON ISAM STORE/DELETE	14 M	Mar 80
LP: MAY PRINT UNWANTED CHARACTERS	15 M	Jun 80
CLOSING AN ISAM FILE UNDER TSD	16 M	Sep 80
DICOMP		
DICOMP DISLIKES SOME COMMENTS	01 M	Sep 79
ISNUTL		
REORG PROBLEMS DUE TO INSUFFICIENT SPACE ON DEVICE	01 M	Feb 80
REDUCE		
HOW TO REDUCE PAINLESSLY	01 N	Aug 79
A REDUCING PROBLEM	02 M	Dec 79
SORTM		
MERGE DOES NOT ACCEPT EMPTY FILES	01 M	Apr 79
MERGING ISAM FILES	02 M	May 80

CTS-300 RDCP (2780/3780) V1.0

SENDING OF TRANSPARENT DATA AND TRANSLATION OF DATA AFTER		
SENDING A TRANSPARENT FILE	01 M	Jul 79
SEND A TRANSPARENT FILE AFTER RECEIVING AN ASCII DATA FILE	02 M	Oct 79
AN ACK IS RECEIVED WHEN ENQ HAS ALREADY BEEN SENT	03 M	Oct 79
MISCELLANEOUS ERRORS	04 M	Aug 79
RDCP11 LOOP MAY OCCUR	05 M	Oct 79
ASCII TRANSMISSION OF A FILE	06 M	Oct 79

DECnet-RT V1

DAP		
DAP ROUTINES DO NOT ARBITRATE DAP SEGMENT SIZE PROPERLY	07 M	Jan 79
NOTES ON CHANGES TO DAP INTERFACE	09 N	Feb 79
CORRECT BUFFER POINTER ERROR	16.11 M	May 79
DAP ATTEMPTS TO SEND A MESSAGE TOO LONG	17.7 M	Sep 79
DDCMP		
DDCMP LINE COUNTERS OVERFLOW TO ZERO	01 O	Jul 78
DMC		
DMC LINE COUNTERS OVERFLOW TO ZERO	01 O	Jul 78

<u>Component</u>	<u>Sequence</u>	<u>Mon/Yr</u>
DOCUMENTATION		
USER'S GUIDE DOCUMENTATION ERRORS	2.1 N	Aug 79
FAL		
CORRECT FAL PROCESSING OF END OF STREAM MESSAGE	01 M	Jan 79
FAL INCORRECTLY ALLOCATES DISC SPACE FOR FILES	02 M	Feb 79
FAL INCORRECTLY HANDLES REMOTE FILE REQUESTS	04 M	Feb 79
TIMING DEPENDENCY IN RT TO RSTS FILE TRANSFERS	17.5 M	Jul 79
MRS FIELD NOT DEFAULTED PROPERLY	17.6 M	Jul 79
FORTRAN INTERFACE		
DIFFERENCES IN RT AND RSX FORTRAN INTERFACE IMPLEMENTATIONS	01 N	Jul 78
USE OF THREADED AND INLINE FORTRAN COMPILER OPTIONS	04 R	Jan 79
FORTRAN REMOTE OPEN FOR WRITE MODIFIES FILE ATTRIBUTES	05 N	Jan 79
MODEM CONTROL		
SUPPORT OF ASYNCHRONOUS HALF DUPLEX MODEMS	01 R	Jul 78
NFARS		
DAP ROUTINES CHANGE MODE DURING FILE TRANSFER	02 M	Feb 79
CHECK FOR BLOCK MODE TRANSFER	03 M	Feb 79
DAP DEFAULTS DO NOT ALLOW RECORDS TO SPAN BLOCKS	06 O	Jan 79
ASCII FILE ACCESS TO VAX/RSX SYSTEMS	08 M	Feb 79
INVALID FILE TYPE SENT TO VAX IN ASCII TRANSFER	10 M	Mar 79
NSP		
PROTOCOL VIOLATION IN NODE INITIALIZATION	01 M	Jan 79
NFT		
NFT ASCII FILE TRANSFER TO VAX/RSX SYSTEMS	03 M	Feb 79
LOGICAL BLOCK NUMBERS NOW START AT ONE	17.5 M	May 79
DECnet-RT V1.1		
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
FORTRAN USER INTERFACES		
NOTES ON THE USE OF THE DECnet-RT FORTRAN INTERFACES	50.16.1 N	Jun 80
MACRO USER INTERFACES		
NOTES ON DECnet-RT MACRO PROGRAMMING	50.16.2 N	Jun 80
FEP-11, FORTRAN ENHANCEMENT PACKAGE (ALSO PERTAINS TO: RT-11/FORTRAN UPGRADE PACKAGE FOR MINC)		
FEP-11 INITIAL PROBLEMS, SOLUTIONS AND HINTS	01 M	May 79
PROBLEMS WITH IEEE-BUS SUBROUTINES	02 M	Feb 80
PROBLEM CALLING SUBROUTINES HAVING NO ARGUMENTS	03 M	Sep 80
FMS-11 V1		
CONSOLE TERMINAL SPECIAL MODE BIT CLEARED	01 M	Jun 79
INCORRECT MCDEMO FILE TYPES	02 O	Jun 79
TSKINI INPUT BUFFER TOO SMALL	03 M	Jun 79
ARTS ERROR MESSAGES LACK '?'	04 M	Jun 79
HANDLER FETCH CORRUPTS FORM FILE ID	05 M	Jul 79
ZERO-FILLED FIELD VALIDATION PROBLEM	06 M	Jul 79
FILED VIDEO ATTRIBUTES PROBLEM	07 M	Jul 79
FRED ERROR MESSAGES LACK'?'	08 M	Jul 79
ERROR IN SCROLL FORWARD/BACKWARD CODE	09 M	Jul 79
ERROR IN EXIT SCROLLED AREA FORWARD CODE	10 M	Jul 79
ANNOUNCING FMS-11 FORMS MANAGEMENT SYSTEM	11 F	Nov 79

ComponentSequenceMon/Yr

FOCAL/RT-11 V1B

FOR COMMAND WITHOUT AN ARGUMENT	01 M	Oct 75
OPERATE COMMAND CAUSES ERROR	04 M	Aug 76
FCLK ROUTINE GIVES INCORRECT TIME	05 O	Aug 76
"LIBRARY ASK" COMMAND	06 O	Feb 77
"/Z" SWITCH	07 M	Aug 77
@START NOT WORKING WHEN DOWN-LINE LOADING	08 M	Mar 78
LIBRARIES FROM FOCAL SOURCE DISK MUST BE REFORMATTED	09 N	Aug 78
CLOCK PROBLEM FOR PAPER TAPE (STAND-ALONE) FOCAL USERS	10 M	Nov 78

FORTRAN GRAPHICS PACKAGE, V1.1

DECGRAPHIC

NMBR SUBROUTINE IN DECgraphic

01 R

JAN 79

FORTRAN/RT-11 EXTENSIONS V2.1

FORTRAN CRASHES AFTER RUNNING PROGRAM WITH "SETR"	01 M	Mar 79
TWO PROBLEMS WITH THE RT-11/FORTRAN GRAPHICS EXTENSIONS	02 M	Mar 79
NEGATIVE INTENSITY	03 N	Mar 79
PROBLEM CALLING SUBROUTINES HAVING NO ARGUMENTS	04 M	Sep 80

FORTRAN IV/RT-11 V2.1

FORTRAN IV V2.1 MAINTENANCE RELEASE	01 N	Dec 78
PATCH 1	02 M	Feb 79
PATCH 2	03 M	Feb 79
PATCH 3	04 M	Feb 79
PATCH 4	05 M	Sep 79
CARRIAGE CONTROL OPTION - PATCH 5	06 M	May 79
OPEN FAILURE WITH TYPE='OLD' - PATCH 6	07 M	Sep 79
FORTRAN LIBRARY FUNCTION ERRST - PATCH 7	08 M	Aug 79
REGISTER ALLOCATION - PATCH 8	09 M	Sep 79
SMALLER EXECUTION-TIME PROGRAMS	10 N	Jun 79
FORTRAN OTS - PATCH 9	11 M	Sep 79
I/O FROM A FORTRAN COMPLETION ROUTINE - PATCH 10	12 M	Aug 79
FORTRAN FAILS TO COMPILE DO-LOOPS - PATCH 11	13 M	Aug 79
CALL CLOSE (FORTRAN LIBRARY SUBROUTINE) - PATCH 12	14 M	Aug 79
UNFORMATTED BYTE I/O - PATCH 13	15 F	Aug 79
LIST DIRECTED INPUT ERRORS - PATCH 14	16 M	Aug 79
DISP='DELETE' OPTION - PATCH 15	17 M	Aug 79
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COMMON SUBEXPRESSION OPTIMIZATION - PATCH 17	19 M	Aug 79
CALL ASSIGN CARRIAGE CONTROL - PATCH 18	20 M	Aug 79
NON-PLAS VIRTUAL ARRAY INITIALIZATION - PATCH 19	21 M	Aug 79
BYTE COMPARISON AND COMMON SUBEXPRESSION OPTIMIZATION - PATCH 20	22 M	Aug 79
DIRECT ACCESS READ - PATCH 21	23 M	Aug 79
COMPLEX VARIABLE TO CONSTANT COMPARISON - PATCH 22	24 M	Aug 79

GAMMA-11 F/B V2.4

CONTINUE ANALYSIS (CA) OCCASIONALLY FAILS	01 M	Oct 79
GAMMA-11 SYSTEMS WITH RK07 DISKS AS A DEVICE	02 M	Jan 80
PROBLEM WITH ABORTING GAMMA-11	03 M	Oct 79
PROBLEMS WITH FOUR BIT MAP ANALYSIS COMMANDS	04 M	Oct 79
PROBLEMS WITH FORTRAN SUBROUTINES 'GPFR' AND GPFW'	05 F	Jan 80
PROBLEMS WITH DATA ANALYSIS	06 M	Jan 80
PROBLEMS WITH DYNAMIC ACQUISITION ON RK05 GAMMA-11	07 M	Nov 79
PROBLEMS WITH DATA ACQUISITION	08 M	Nov 79
TRANSFER STUDIES WITH MAGTAPE PROBLEM	09 M	Nov 79

<u>Component</u>	<u>Sequence</u>	<u>Mon/Yr</u>
LABORATORY APPLICATIONS-11 V3		
A NEW MODULE TO ENHANCE DATA FLOW WITHIN LA-11	01 N	Oct 76
HISTO.MAC		
ACQUIRING AND PROCESSING HISTOGRAM DATA	01 M	Sep 76
LABMAC.SML		
ERRONEOUS MACRO	01 M	Sep 77
INCLUDING LABMAC.SML IN SYSMAC.SML	02 M	Mar 79
PEAK.MAC		
WIDE PEAKS	01 M	Mar 76
PEAK PROBLEMS AND CORRECTIONS	02 M	Jul 76
ARITHMETIC CORRECTION FOR PEAK AREA	03 M	Dec 76
MISSING PATCH IN RELEASE NOTES	04 M	Oct 77
SPARTA		
LPS AND AR-11 VECTOR AND STATUS REGISTER	01 N	Dec 75
USING SPARTA AND FLOATING POINT BUFFERS	02 N	Feb 76
AR-11 TIMING PROBLEMS WITH ADSAM AND SPARTA	03 O	Feb 76
FFT SCALING CORRECTION	04 M	Feb 76
SCALE FACTOR CORRECTION FOR SPARTA COMMANDS FAC AND FCC	05 M	Mar 76
DATA DISPLAYS USING LA-11	06 N	Mar 76
DATA PREPARATION FOR SPARTA COMMANDS FAC AND FCC	07 N	Apr 76
SPARTA CORRECTIONS FOR POINT-PLOT DISPLAY	08 M	Apr 76
ADDING COMMANDS TO SPARTA	09 M	May 76
CORRECTION FOR THE DPV COMMAND WITH POINT PLOT DISPLAY	10 M	Jun 76
GENERAL SUBROUTINE MODULE FOR EAE	11 O	Jun 76
INCORRECT PHASE ANGLE CALCULATION	12 M	Oct 76
"MOU" AND "MIN" COMMANDS CAN BE READ OUT AND IN CORRECTLY	13 N	Jan 77
MULTIPLE SYNCH PULSES	14 M	Jan 77
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ALLOCATING MORE THAN 16K BUFFERS IN SPARTA	16 M	Feb 77
A/D SAMPLING: FAST MODE	17 M	Jul 77
A/D SAMPLING: FAST MODE EXIT	19 M	Mar 78
SCALE FACTOR PRINT FOR THE FFT	20 M	Jan 79
SWEEP.MAC		
SWEEP SAMPLING: FAST MODE	01 M	Aug 77
THRU		
HOW TO START DATA ACQUISITION WHEN CSTART EQUALS ZERO	01 N	Jun 76
MULTICHANNEL SINGLE RATE SCHMIT TRIGGER SWITCH BOUNCE	02 M	Dec 76
CONTINUOUS SAMPLING: CONDITIONAL ASSEMBLY ERRORS	03 M	Jul 77
CONTINUOUS SAMPLING: DMA WITH DUAL SAMPLE + HOLD	04 M	Jul 77
DOCUMENTATION CORRECTIONS	05 M	Nov 77
LSP-11 V1		
PATCH NO. 1 - GENERAL CORRECTIONS NO. 1	01 M	Jun 79
PATCH NO. 2 - PEAK CORRECTION NO. 1	02 M	Jun 79
PATCH NO. 3 - PEAK CORRECTION NO. 2	03 M	Jun 79
MSB-11 V1.0		
MSB-11 SOFTWARE ON THE PDP-11/03	01 M	Jul 79
MU BASIC-11/RT-11 V2		
MU BASIC-11/RT-11 V2 CONVERSION PROGRAM	01 R	Nov 78
OPERATION OF CTRL/C, RCTRLC AND SYS (6) FUNCTIONS AND THE CTRL/C COMMAND	02 N	Nov 78
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MU BASIC-11/RT-11 V2 RELEASE NOTES AND INSTALLATION GUIDE CHANGES	04 N	Dec 78
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MACRO.SAV

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