

RT-11

July 1981

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

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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 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 Software Dispatch, July 1981

RT-11 V4.0
Monitor Patches
KMON.MAC

Seq 1.1.17 R

1 of 1

PRINT COMMAND RESTRICTION (LCP)

If a PRINT command is issued at the console with the /NEW, /QUERY and/or /[NO]LOG options, KMON will invoke PIP regardless of whether QUEUE is running. This is because QUEMAN does not have the facility to process these options and the DCL switch option table is set up to force execution of PIP if any of these options are present in the command.

This will remain a restriction in Version 4.0 of RT-11 but will be corrected in the next release.

USING AN LA120 TERMINAL AS A LINE PRINTER WITH THE LS HANDLER (LCP)

1. For an LA120 to operate properly as a line printer with the LS handler, the LA120 should be set-up so its "high water mark" is 576 characters (Set-up "B" = 1), XOFF/XON protocol is enabled (Set-up "X" = 1) and modem protocol is full duplex, no EIA controls (Set-up "M" = 1). The baud rate should be set to 2400 (higher rates do not increase throughput).
2. The SET LS NOHANG command is currently inoperative, since there is no hardware facility to detect whether or not the terminal is off-line other than receiving an XOFF (CTRL/S), which also indicates that the "high water mark" has been exceeded and thus the handler should cease transmitting characters. To effectively detect an off-line condition (paper-out, head jamb) the LS handler must use device time-out support which requires a SYSGENed RT-11 monitor. The mandatory patch appearing in the accompanying article (Seq. 6.13.4M) will allow the LS handler to be set "NOHANG" if device time-out is supported in the monitor. Note that distributed monitors and monitors that do not include device time-out support will not support the SET LS [NO]HANG command; i.e. it will be an illegal command. Once patched, the handler will generate a hard error if the .TIMIO request times out (5 seconds after receiving an XOFF).

SET LS NOHANG IS CURRENTLY INOPERATIVE (LCP)

When used in conjunction with a DL11/DZ11 serial interface, the SET LS NOHANG command is inoperative; i.e. the handler will still hang rather than report a hard error (see accompanying article Seq. 6.13.3N appearing in this volume of the Software Dispatch). The mandatory patch given below will correct this problem when used with monitors generated with device time-out support.

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.003 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.

```
-/ELLS<tab>== 2/,.,/;003/
ELLS<tab>== 3
-25,25,/;003/
.MCALL<tab>.DRDEF,.INTEN,.MTPS
-48,48,/;003/
.IF NE TIM$IT
<tab>.DRSET<tab>HANG,NOP,O.HANG,NO
.ENDC
-71,.,/;003/
.IF NE TIM$IT
-73,73,/;003/
<tab> BR<tab>LSHANG-O$HANG+.
-75,.,/;003/
.ENDC
-146,146,/;003/
<tab>BNE<tab>4$
.IF NE<tab>TIM$IT
<tab>TST<tab>TCOMPL
<tab>BEQ<tab>3$
<tab>.CTIMIO<tab>TBLOCK
<tab>CLR<tab>TCOMPL
3$:
.IFTF
-149,149,/;003/
4$:<tab>CMP<tab>R4,#CTRLS
-153,165,/;003/
```


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

Seq 6.13.4 M

2 of 3

```

<tab>JSR<tab>PC,RET
.IFT
O$HANG:<tab>BR<tab>LSHANG
<tab>TST<tab>TCOMPL
<tab>BNE<tab>LSHANG
-167,170,/,;003/
<tab>MOVB<tab>Q$JNUM(R4),R4
<tab>ASR<tab>R4
<tab>ASR<tab>R4
<tab>ASR<tab>R4
<tab>BIC<tab>#^C<16>,R4
<tab>MOV<tab>R4,TJOBNM
<tab>MOV<tab>PC,R4
<tab>ADD<tab>#OFFLIN-.,R4
<tab>MOV<tab>R4,TCOMPL
<tab>.TIMIO<tab>TBLOCK,0,60.*5
LSHANG:
.IFTF
<tab>RTS<tab>PC
.SBTTL<tab>OPERATION COMPLETE
LSERR:<tab>BIS<tab>#HDERR$,@-(R4)
LSDONE:<tab>CLR<tab>STALLF
-172,172,/,;003/
<tab>CLR<tab>@LSIS
<tab>CLR<tab>LSFBLK+2
<tab>.DRFIN<tab>LS
.IFT
OFFLIN:<tab>MOV<tab>@SP,-(SP)
<tab>CLR<tab>2(SP)
<tab>.MTPS<tab>#340
<tab>.INTEN<tab>0,PIC
-173,,/,;003/
<tab>BR<tab>LSERR
.ENDC
.DSABL<tab>LSB

.SBTTL<tab>INTERRUPT SERVICE
.ENABL<tab>LSB
<tab>.DRAST<tab>LS,4,LSDONE
<tab>CLR<tab>@(PC)+
LSS:<tab>.WORD<tab>LS$CSO
<tab>.FORK<tab>LSFBLK
<tab>MOV<tab>LSCQE,R4
-256,,/,;003/
.IF NE <tab>TIM$IT
TBLOCK:<tab>.WORD<tab>0,0,0
TJOBNM:<tab>.WORD<tab>0
<tab>.WORD<tab>177700
<tab>.WORD<tab>-1
TCOMPL:<tab>.WORD<tab>0
.ENDC
/

```

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

Seq 6.13.4 M
3 of 3

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

```
.R SLP
*LS.MAC=LS.MAC,LS.003
?SLP-W-Audit trail overwrites line
  MOV      IE,IEMSK                                ;002
?SLP-W-Audit trail overwrites line
  MOV      LSCQE,R4                                ;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
```

NOTE: In addition if your monitor is XM the above MACRO command must include XM.MAC (for example, MACRO XM+SYCND+...). You must now either reboot or REMOVE and INSTALL your LS.MAC 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.

TS-11 DOES NOT RECOVER FROM SOFT ERROR ON WRITE EOF (LCP)

The TS handler does not recover from errors detected during a WRITE END-OF-FILE command. This is a recoverable error and the handler should not give the "?MON-F-Directory I/O" error.

1. The following is a required patch to the RT-11 device handler source file TS.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 TS 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 TS.003 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.

```
-/ELTS<tab>== 4/.,./;003/  
ELTS<tab>== 5  
-673,./;003/  
<tab>CMP<tab>#FN+WRTEOF, LASTCOM  
<tab>BEQ<tab>WREC  
-714,714,./;003/  
<tab>CMP<tab>#FN+WRTEOF, LASTCOM  
<tab>BNE<tab>6$  
<tab>MOV<tab>#CC.WTR, (R3)+  
<tab>BR<tab>7$  
6$:<tab>MOV<tab>#CC.WDR, (R3)+  
7$:<tab>MOV<tab>(R2)+, (R3)+  
-717,717,./;003/  
/  
/
```

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

```
.R SLP  
*TS.MAC=TS.MAC, TS.003  
*^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.

RT-11 V4.0
Device Handler Sources
Magtape Patches

Seq 6.20.4 M

2 of 2

```
.MACRO SYCND.xxx+TS/OBJ  
.MACRO SYCND.xxx+FSM/OBJ  
.LINK/EXECUTE:MS.SYS TS,FSM
```

For the hardware handler use the following comand sequence:

```
.MACRO SYCND.HD+TS/OBJ  
.LINK/EXECUTE:MSHD.SYS TS
```

NOTE: In addition if your monitor is XM the above MACRO command must include XM.MAC (for example, MACRO XM+SYCND+...). You must now either reboot or REMOVE and INSTALL your MS (or MSHD) handler.

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

ERROR WITH RENAME/NOREPLACE (DBF)

When executing the command RENAME/NOREPLACE on multiple input files, if one of the output files already exists, PIP issues the message "?PIP-F-Channel in use" and PIP returns to the monitor.

1. The following is a required patch to the PIP.SAV utility program (previously modified in Seq 7.1.5 M). 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. Create the file, PIP.005 as follows. 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
105
^Z                               (up-arrow/Z)
5546
12700
3000
104374
12701
16
207
^Z                               (up-arrow/Z)
21254
4767
171456
^Y                               (up-arrow/Y)
14523
^C                               (CTRL/C to exit)

```

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

@PIP.005

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

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

RT-11 V4.0
System Utilities
DUP.SAV V04.00G

Seq 7.2.9 M

1 of 1

ATTEMPT TO RESTORE UNCLOSED TENTATIVE FILES FAILS (DBF)

If a file is opened and written to by a user program but the file is never closed properly, an attempt to restore the file using the command CREATE/START:x/ALLOCATE:y will produce the message ?DUP-F-No room for file. The cause of the problem is that DUP does not correctly calculate the size of the empty slot on the volume.

1. The following is a required patch to the DUP.SAV utility program (previously modified in Seq 7.2.8 M). 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.008 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
0
3546
110
^Z (up-arrow/Z)
17770
66260
^Y (up-arrow/Y)
176542
^C (CTRL/C to exit)

```

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

@DUP.008

The resulting version of the utility will be DUP V04.00H.

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

RT-11 V4.0
System Utilities
LIBR.SAV V04.00A

Seq 7.10.2 M

1 of 3

Supersedes article dated May 81

LIBR ERRORS (JK)

**** Replacement Article for patch Seq 7.10.2 M published in May 1981. The following article is correct, and should be installed instead of the article published in May 1981.**

The following patch corrects two errors in the LIBR utility. The first of these errors is a result of a previous patch to LIBR described in Sequence 7.10.1M of the July 1980 Software Dispatch. If the first command line of a sequence of command lines contains a continuation switch with no input files, LIBR returns the version number and terminates the sequence.

The second error in LIBR concerns error messages. When LIBR encounters an error in any of its input files, it prints in the error message only the name of the first input file specified in the command string, regardless of which input file generated the error.

1. The following is a required patch to the LIBR.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 LIBR.SAV is on a mounted volume. Create the file, LIBR.002 as follows. Replace 'DK:' in the patch below with the name of the device that contains the program file.

```

R SIPP
DK:LIBR.SAV/A/C
0
3132
102
^Z                               (up-arrow/Z)
4210
103451
^Z                               (up-arrow/Z)
4266
4767
1272
^Z                               (up-arrow/Z)
4636
4767
736
52764
100000
10
12423
23704
50
101374
10300

```

RT-11 V4.0
System Utilities
LIBR.SAV V04.00A

Seq 7.10.2 M

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Supersedes article dated May 81

162700
12
10067
175304
10367
175720
12700
1000
60003
10367
175010
60003
10367
174766
12767
177777
175004
5067
175002
12704
1360
5714
1417
16767
175652
174764
10401
12700
1404
12710
1000
10460
2
16760
174430
4
104375
103420
5764
12
1431
12701
1372
12700
1404
12710
1001
10160
^Z
5530
5027
0
13700
54
5767
173644

(up-arrow/Z)

RT-11 V4.0
System Utilities
LIBR.SAV V04.00A

Seq 7.10.2 M

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Supersedes article dated May 81

```

1003
5767
173650
1403
52767
100000
177750
207
52767
1
177740
162704
12
207
6067
177726
103766
6167
177720
100003
4567
174136
100030
5726
167
175512
^Z (up-arrow/Z)
13070
5713
^Z (up-arrow/Z)
14576
4502
^Z (up-arrow/Z)
23166
177032
^Y (up-arrow/Y)
2600
^C (up-arrow/C)

```

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

@LIBR.002

The resulting version of the utility will be LIBR V04.00B.

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

RT-11 V4.0
KED Keypad Editor
KED.SAV V01.01D

Seq 17.1.6 M

1 of 2

"SET SEARCH EXACT JUNK" COMMAND CRASHES KED (JFW)

If the "SET SEARCH EXACT" command is entered with characters following "EXACT", KED crashes (typically with a trap to 10).

1. The following is a required patch to the KED.SAV utility program. It must be installed on 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 KED.SAV is on a mounted volume. Create the file KED.005 as follows. Replace "DK:" in the patch below with the name of the device that contains the program file.

```
RUN SIPP
DK:KED.SAV/A/C
0
1562
31454
^Z (up-arrow/Z)
23626
105
^Z (up-arrow/Z)
33672
10603
401
5003
^Z (up-arrow/Z)
33702
10367
^Z (up-arrow/Z)
64044
42461
^Y (up-arrow/Y)
75044
^C (up-arrow/C)
```

RT-11 V4.0
KED Keypad Editor
KED.SAV V01.01D

Seq 17.1.6 M

2 of 2

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

```
@KED.005
```

The resulting version of the utility will be KED V01.01E.

To test the patch perform the following editing function:

Items enclosed in [] are system prompts or comments, not to be typed in. Items enclosed in <> are keypad keys as they are named in the help frame or the main keyboard control keys. Use the return key only when specified by <Ret>.

```
[.]RUN KED<Ret>
```

```
[*]<Ret>
```

```
["KED V01.01E" is displayed]
```

```
[*]TEST.005/C<Ret>
```

```
<Command>Set Search Exact Junk
```

```
<Enter>
```

```
[Bell should ring]
```

```
<Help>
```

```
["Too many arguments for command" message is displayed]
```

```
<Command>Quit
```

```
<Enter>
```

```
["?KED-W-Output files purged" message is displayed]
```

```
[*]<Ctrl/C>
```

```
[.]
```

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

RT-11 V4.0
KED Keypad Editor
KED.SAV V01.01E

Seq 17.1.7 M

1 of 3

REPEATED USE OF THE "APPEND" FUNCTION CRASHES KED (JFW)

If the APPEND function is used repeatedly, the amount of space available in the PASTE buffer is calculated incorrectly. KED may overwrite memory that doesn't belong to it and crash the system.

1. The following is a required patch to the KED.SAV utility program. It must be installed on 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 KED.SAV is on a mounted volume. Create the file KED.006 as follows. Replace "DK:" in the patch below with the name of the device that contains the program file.

```
RUN SIPP
DK:KED.SAV/A/C
0
1256
1000
^Z (up-arrow/Z)
23626
106
^Z (up-arrow/Z)
32356
4767
374
^Z (up-arrow/Z)
32434
332
^Z (up-arrow/Z)
32462
432
```

RT-11 V4.0
KED Keypad Editor
KED.SAV V01.01E

Seq 17.1.7 M
2 of 3

^Z (up-arrow/Z)

32500
5305
5767
161556
1403
4767
150072
402
4767
150014
112600
103426
5767
161534
1401
110043
5301
1355
5302
100353
10403
5767
161512
1405
10367
161500
10567
161472
240

^Z (up-arrow/Z)

32756
16703
161300
16705
161272
207
4767
147532
5305
207

^Z (up-arrow/Z)

64044
43061

^Y (up-arrow/Y)

162504
^C

(up-arrow/C)

RT-11 V4.0
KED Keypad Editor
KED.SAV V01.01E

Seq 17.1.7 M

3 of 3

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

@KED.006

The resulting version of the utility will be KED V01.01F

To test the patch perform the following editing function:

Items enclosed in [] are system prompts or comments, not to be typed in. Items enclosed in <> are keypad keys as they are named in the help frame or the main keyboard control keys. Use the return key only when specified by <Ret>.

[.]RUN KED<Ret>

[*]<Ret>

["KED V01.01F" is displayed]

[*]TEST.006/C<Ret>

<Select>

A

<Cut>

<Command>Learn

<Enter>

<Select>

<Paste>

A

<Append>

<Gold>S

<Repeat>3000

<Gold>X

[Bell should ring]

[Ignore any display of file contents
which will probably be many "A"s]

<Help>

["Select range too large for CUT" message is displayed]

<Command>Quit

<Enter>

["?KED-W-Output files purged" message is displayed]

[*]<Ctrl/C>

[.]

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

RT-11 V4.0
KED Keypad Editor
KED.SAV V01.01F

Seq 17.1.8 F

1 of 2

DISABLE REVERSE VIDEO DISPLAY BY KED (JFW)

Certain users find the reverse video display of replies to prompts (such as Command: and Repeat:), error messages, and the characters in a select range difficult to read. These reversed video displays are especially difficult to read for blind persons using OPTICONS (TM).

NOTE: This patch is NOT a required patch. It removes all reversed video display. The SET SCREEN LIGHT and SET SCREEN DARK commands are not disabled. The entire screen can still be set to either light or dark background.

1. The following is a feature patch to the KED.SAV utility program. It may be installed on any V01.01 copy 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 KED.SAV is on a mounted volume. Create the file KED.999 as follows. Replace "DK:" in the patch below with the name of the device that contains the program file.

```
RUN SIPP
DK:KED.SAV/A/C
0
3374
66460
^Z (up-arrow/Z)
23714
55600
^Z (up-arrow/Z)
23730
66460
^Z (up-arrow/Z)
23736
66460
^Z (up-arrow/Z)
23750
30133
^Z (up-arrow/Z)
47030
100200
^Y (up-arrow/Y)
57023
^C (up-arrow/C)
```

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

@KED.999

Note that the version number stays the same.

To test the patch perform the following editing function:

Items enclosed in [] are system prompts or comments, not to be typed in. Items enclosed in <> are keypad keys as they are named in the help frame or the main keyboard control keys. Use the return key only when specified by <Ret>.

```
[.]RUN KED<Ret>
[*]TEST.999/C<Ret>
<Select>
A
[The A should not be in reverse video.]
<Right Arrow>
[Bell should ring]
<Help>
["Advance char finds end of file" message is displayed
in normal mode, not in reverse video.]
<Command>Quit
[The "Quit" characters should not be in reverse video.]
<Enter>
["?KED-W-Output files purged" message should not be in
reverse video.]
[*]<Ctrl/C>
[.]
```

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

RT-11 V4.0
K52 Keypad Editor
K52.SAV V01.01D

Seq 17.2.6 M

1 of 2

"SET SEARCH EXACT JUNK" COMMAND CRASHES K52 (JFW)

If the "SET SEARCH EXACT" command is entered with characters following "EXACT", K52 crashes (typically with a trap to 10).

1. The following is a required patch to the K52.SAV utility program. It must be installed on 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 K52.SAV is on a mounted volume. Create the file K52.005 as follows. Replace "DK:" in the patch below with the name of the device that contains the program file.

```
RUN SIPP
DK:K52.SAV/A/C
0
1542
27656
^Z (up-arrow/Z)
22704
105
^Z (up-arrow/Z)
32376
10603
401
5003
^Z (up-arrow/Z)
32406
10367
^Z (up-arrow/Z)
61044
42461
^Y (up-arrow/Y)
27540
^C (up-arrow/C)
```

RT-11 V4.0
K52 Keypad Editor
K52.SAV V01.01D

Seq 17.2.6 M
2 of 2

3. To apply the patch to K52.SAV type:

@K52.005

The resulting version of the utility will be K52 V01.01E.

To test the patch perform the following editing function:

Items enclosed in [] are system prompts or comments, not to be typed in. Items enclosed in <> are keypad keys as they are named in the help frame or the main keyboard control keys. Use the return key only when specified by <Ret>.

[.]RUN K52<Ret>

[*]<Ret>

["K52 V01.01E" is displayed]

[*]TEST.005/C<Ret>

<Command>Set Search Exact Junk

<Enter>

[Bell should ring]

<Help>

["Too many arguments for command" message is displayed]

<Command>Quit

<Enter>

["?KED-W-Output files purged" message is displayed]

[*]<Ctrl/C>

[.]

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

RT-11 V4.0
K52 Keypad Editor
K52.SAV V01.01E

Seq 17.2.7 M

1 of 3

REPEATED USE OF THE "APPEND" FUNCTION CRASHES K52 (JFW)

If the APPEND function is used repeatedly, the amount of space available in the PASTE buffer is calculated incorrectly. K52 may overwrite memory that doesn't belong to it and crash the system.

1. The following is a required patch to the K52.SAV utility program. It must be installed on 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 K52.SAV is on a mounted volume. Create the file K52.006 as follows. Replace "DK:" in the patch below with the name of the device that contains the program file.

```
RUN SIPP
DK:K52.SAV/A/C
0
1256
1000
^Z                               (up-arrow/Z)
22704
106
^Z                               (up-arrow/Z)
31356
4767
374
^Z                               (up-arrow/Z)
31434
332
^Z                               (up-arrow/Z)
31462
432
```

RT-11 V4.0
K52 Keypad Editor
K52.SAV V01.01E

Seq 17.2.7 M

2 of 3

```
^Z (up-arrow/Z)
31500
5305
5767
162410
1403
4767
151274
402
4767
151216
112600
103426
5767
162366
1401
110043
5301
1355
5302
100353
10403
5767
162344
1405
10367
162332
10567
162324
240
^Z (up-arrow/Z)
31756
16703
162132
16705
162124
207
4767
150734
5305
207
^Z (up-arrow/Z)
61044
43061
^Y (up-arrow/Y)
135501
^C (up-arrow/C)
```

RT-11 V4.0
K52 Keypad Editor
K52.SAV V01.01E

Seq 17.2.7 M

3 of 3

3. To apply the patch to K52.SAV type:

@K52.006

The resulting version of the utility will be K52 V01.01F

To test the patch perform the following editing function:

Items enclosed in [] are system prompts or comments, not to be typed in. Items enclosed in <> are keypad keys as they are named in the help frame or the main keyboard control keys. Use the return key only when specified by <Ret>.

[.]RUN K52<Ret>

[*]<Ret>

["K52 V01.01F" is displayed]

[*]TEST.006/C<Ret>

<Select>

A

<Cut>

<Command>Learn

<Enter>

<Select>

<Paste>

A

<Append>

<Gold>S

<Repeat>3000

<Gold>X

[Bell should ring]

[Ignore any display of file contents
which will probably be many "A"s]

<Help>

["Select range too large for CUT" message is displayed]

<Command>Quit

<Enter>

["?KED-W-Output files purged" message is displayed]

[*]<Ctrl/C>

[.]

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

RT-11 Software Dispatch, July 1981

MU BASIC-11/RT-11 V2.0
for RT-11 V4

Seq 36.1.30 N

1 of 1

PROBLEM WITH MU BASIC-11 PATCH U

Note: A problem has been found in MU BASIC-11 Patch U published in the January Software Dispatch. While it solves the stated problem, it creates another one. If Patch U is installed and a CHAIN is done between two compiled programs that have COMMON data, and string variables are part of the COMMON data, the contents of the string variables will be destroyed.

For the present, we are retracting Patch U for MU BASIC-11. The patches following it in sequence should be installed normally.

The condition that Patch U was created to fix (OLD of a compiled program followed by certain immediate mode commands) will, for the present, be classed as a restriction. Since the situation is quite easy to avoid, once one is aware of the problem, we foresee no serious inconvenience. When a revised patch U can be developed it will be published in the Software Dispatch.

RT-11 Software Dispatch, July 1981

FORTRAN IV V2.5
for RT-11 V4.0
OTS

Seq 45.2.2 M
1 of 2

***** Supersedes Article January 1981 *****

THE LUN IS NOT SAVED WHEN AN ERROR OCCURS WHILE OPENING A FILE (PAT 4)

NOTE

The checksum for the correction module and the test program for the original version were incorrect.

PROBLEM:

The FORTRAN OTS does not save the Logical Unit Number of the file in question when an error occurs while it is being opened.

SOLUTION:

1. Type in the following MACRO file: PAT04.MAC

PAT04.MAC:

```
.TITLE SEOL
.IDENT /006/
.PSECT OTSSI

S=.
.=S+36
    JMP     PATEOL
.=S+42
OPENER:
.=S+246
PATEOL:
    MOVB   R2,242(R3)
    MOV    162(R3),R0
    JMP    OPENER
.END
```

2. Assemble the patch using MACRO-11

```
.R MACRO
*PAT04=PAT04
*^C
```

FORTRAN IV V2.5
for RT-11 V4.0
OTS

Seq 45.2.2 M
2 of 2

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

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

```
.R PAT
*OTSCOM=OTSCOM/C:55044,PAT04/C:11501
```

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.

```
OPEN(UNIT=1,NAME='WHERE.DAT',TYPE='OLD',ERR=10)
CLOSE(UNIT=1)
GOTO 50
10 CALL ERRSNS(IERR,ILUN)
WRITE(5,20) IERR,ILUN
20 FORMAT(' ERROR # ',I3,' WHILE OPENING UNIT ',I3)
50 STOP
END
```

Which should produce the following results:

```
ERROR # 28 WHILE OPENING UNIT 1
STOP --
```


RT-11 Software Dispatch July 1981

FORTTRAN IV V2.5
for RT-11 V4.0
OTS

Seq 45.2.5 M
1 of 2

***** Supersedes Article March 1981 *****

DEFAULT CARRIAGE CONTROL FOR IMPLIED SEQUENTIAL ACCESS FILES (PAT 7)

NOTE

The sequence number for the original article was incorrect.

PROBLEM:

The FORTRAN OTS does not properly set the default carriage control to FORTRAN when sequential access is the default file access type.

SOLUTION:

1. Type in the following MACRO file: PAT07.MAC

PAT07.MAC:

```
.TITLE $OPEN
.IDENT /006/
.PSECT OTSS0
S=.
.=S+550
      BIT      #3200,@R0
      .END
```

- 2 Assemble the patch using MACRO-11

```
.R MACRO
*PAT07=PAT07
*^C
```

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

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

```
.R PAT
*OTSCOM=OTSCOM/C:151756,PAT07/C:6503
```

FORTRAN IV V2.5
for RT-11 V4.0
OTS

Seq 45.2.5 M
2 of 2

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.

```
      WRITE(21,1)
1     FORMAT('ØWHEN ZERO DOES NOT APPEAR AS THE FIRST')
      WRITE(21,2)
2     FORMAT(' CHARACTER ON THE LINE ABOVE THE PATCH IS SUCCESSFUL')
      END
```

Which should produce a file of one block in length. The file FTN21.DAT should contain the following:

```
      WHEN ZERO DOES NOT APPEAR AS THE FIRST
      CHARACTER ON THE LINE ABOVE THE PATCH IS SUCCESSFUL
```

FORTRAN IV V2.5
for RT-11 V4
OTS

Seq 45.2.7 M

1 of 2

DISPOSE = 'KEEP' NOT RECOGNIZED WITH READONLY OPEN PARAMETER (PAT 9)

PROBLEM:

The FORTRAN OTS does not recognize the DISPOSE='KEEP' parameter when a file is opened as READONLY.

SOLUTION:

1. Type in the following MACRO file: PAT09.MAC

PAT09.MAC:

```
        .TITLE  OPNCLO
        .IDENT  /002/
        .PSECT  OTS$I
S=.
.=S+164      JMP      KEEP
SAVE:
.=S+236
KEEP:
        CMP     #4,R1
        BNE     OK
        MOV     #1,R1
OK:        CMP     R1,#1
        JMP     SAVE
        .END
```

2. Assemble the patch using MACRO-11

```
.R MACRO
*PAT09=PAT09
*^C
```

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

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

FORTRAN IV V2.5
for RT-11 V4
OTS

Seq 45.2.7 M
2 of 2

```
.R PAT  
*OTSCOM=OTSCOM/C:45411,PAT09/C:11307
```

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.

```
OPEN(UNIT=1,NAME='PAT09.MAC',TYPE='OLD',DISPOSE='KEEP',READONLY)  
CLOSE(UNIT=1)  
END
```

Which should run without any run-time errors.

RT-11 Software Dispatch, July 1981

FORTTRAN IV V2.5
for RT-11 V4.0
OTS

Seq 45.2.8 M
1 of 2

THE DATE ROUTINE DOES NOT PERMIT BYTE ALIGNED PARAMETERS (PAT10)

PROBLEM:

The FORTRAN DATE routine will generate an illegal memory reference when the parameter to the DATE routine starts on a byte aligned boundary and the system date has not been set.

SOLUTION:

1. Type in the following MACRO file: PAT10.MAC

PAT10.MAC:

```
.TITLE $DATE
.IDENT /004/
.PSECT OTSSI
S=.
.=S+56
FILL: MOV #8.,@SP
      MOVB #40,(R0)+
      DEC @SP
      BGT FILL
      NOP
      NOP
      .END
```

2. Assemble the patch using MACRO-11

```
.R MACRO
*PAT10=PATCH
*^C
```

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

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

```
.R PAT
*OTSCOM=OTSCOM/C:45132,PAT10/C:10670
```

FORTRAN IV V2.5
for RT-11 V4.0
OTS

Seq 45.2.8 M
2 of 2

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.

```
        BYTE      NDATE(10)
        DATA NDATE/10*' '/
        CALL      DATE(NDATE(2))
        WRITE(5,10)      (NDATE(I),I=2,10)
10      FORMAT(' DATE IS ',9A1)
        END
```

Which should produce the following results:

```
DATE IS
STOP --
```

RT-11 Software Dispatch, July 1981

FORTRAN IV V2.5
for RT-11 V4.0
OTS

Seq 45.2.9 M
1 of 2

IMPLICIT READ FAILURE MAY HALT PROCESSOR (PAT 11)

PROBLEM:

A FORTRAN program which opens files implicitly via a WRITE statement, may halt the processor when the first implicit I/O operation fails and the next implicit I/O operation is writing output to the same file.

SOLUTION:

1. Type in the following MACRO file: PAT11.MAC

PAT11.MAC:

```
.TITLE $OPEN
.IDENT /007/
.PSECT OTSS0
S=.
.=S+72
JMP RSTORE
SAVED:
.=S+1066
RSTORE:
MOV 14(R3),130(R3)
ADD #6,R5
JMP SAVED
.END
```

2. Assemble the patch using MACRO-11

```
.R MACRO
*PAT11=PAT11
*^C
```

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

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

```
.R PAT
*OTSCOM=OTSCOM/C:154202,PAT11/C:11134
```

FORTTRAN IV V2.5
for RT-11 V4.0
OTS

Seq 45.2.9 M

2 of 2

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.

```
      INTEGER EUNIT
      DATA LENREC/1/,EUNIT/3/,IFLEN/1/
      CALL ASSIGN(EUNIT,'WHERE.DAT',0,'OLD')
      DEFINE FILE EUNIT(IFLEN,LENREC,U,ISAV)
      READ(EUNIT'1,ERR=10) IR
      TYPE *, ' DELETE WHERE.DAT '
      GOTO 9999
10    CALL ASSIGN(EUNIT,'WHERE.DAT',0,'NEW')
      DEFINE FILE EUNIT(IFLEN,LENREC,U,ISAV)
      WRITE(EUNIT'1) 0
      READ(EUNIT'1) IR
      TYPE *,IR
9999  STOP
      END
```

Which should produce the following results:

```
      0
STOP --
```


GAMMA V3.1
FGAMMA
GSAACQ

Seq 49.2.1 M
1 of 1

FGAMMA-FRAMES 3 TO 10 OF GSA STUDY SOMETIMES CORRUPT (SPR 11-P34610 LM)

Problem:

Frames 3 to 10 of a gate synchronised study acquired in the foreground are corrupt. The problem occurs when the gate synchronised study follows a gated list mode study.

Solution:

The patch below will correct the problem.
The patch should be applied to the copy of the distribution disk,
DO NOT PATCH THE DISTRIBUTION DISK.

If you wish to apply the patch to your work disk, rather than rebuild it, you should not apply the patch if you built your system for the following configuration:

RK05 system disk with F/B system and less than 48KW of memory.

This patch is installed using SIPP, the Save Image Patching Program.

First, ensure that a copy of the file FGAMMA.REL is on a mounted volume.

Create the file, FGAMMA.002 as follows. Replace 'DK:' in the patch below with the name of the device that contains the program file to be patched.

```
RUN SIPP
DK:FGAMMA.REL/C
6
16300
526
377
^Y          (UP-ARROW/Y)
157105     (UP-ARROW/C)
^C
```

To apply the patch to FGAMMA.REL type:

@FGAMMA.002

RT-11 Software Dispatch, July 1981

CTS-300 V06
for RT-11 V4.0
DOCUMENTATION

Seq 51.21.06 M
1 of 1

SOME NOTES ON RT-11 PATCH SEQ 6.13.3 M TO LS.MAC FOR CTS-300 USERS

The latest RT-11 patch to LS.MAC, Seq 6.13.3M, is published in this issue of the RT-11 Software Dispatch and can be installed as published in the CTS-300 version of LS.MAC. However, there are some things of which CTS-300 users should be aware:

- CTS-300 Patch 15 (Seq 51.23.02 M), published in the June 1981 issue of the RT-11 Software Dispatch, must be installed before RT-11 patch Seq 6.13.3M.
- After applying the two above-mentioned patches with SLP, CTS-300 users must run Sysgen to install them.
- When Sysgen is run, CTS-300 users must answer "yes" to the question "Do you want device time-out support?" in order for the patch to work properly.

RT-11 Software Dispatch, July 1981

GAMMA-11 V3.0
FGAMMA

Seq 54.1.2 M

1 of 2

FGAMMA-FRAMES 3 to 10 of GSA STUDY SOMETIMES CORRUPT (SPR 11-34610 LM)

PROBLEM:

Frames 3 to 10 of a gate synchronised study acquired in the foreground are corrupt. The problem occurs when the gate synchronised study follows a gated list mode study.

RESPONSE:

The patch below will correct the problem.

The patch must be applied to the copy of the distribution disk. **DO NOT PATCH THE DISTRIBUTION DISK**

If you apply the patch to your work disk, you should not apply the patch if you built your system for the following configuration:

RK05 system disk with F/B monitor and less than 48KW of memory

The text in bold type is to be typed in by the user.

<CR> denotes the carriage return key.

<LF> denotes the line feed key.

In case a mistake is made when typing in the patch, apply it to a copy of the file FGAMMA.REL as instructed below.

.COPY FGAMMA.REL FGAMMA.TMP<CR>

.R PATCH<CR>

FILE NAME--

***FGAMMA.TMP/O/C<CR>**

***16302;R**

***6:0,526/ 77 377<CR>**

***E**

Checksum? **53637<CR>**

GAMMA-11 V3.0
FGAMMA

Seq 54.1.2 M

2 of 2

If, after entering the checksum value, the system prints the message,

```
?PATCH-W-Checksum error
```

the patch has not been typed in correctly. Make another copy of FGAMMA.REL as instructed above and apply the patch again.

If the checksum value was accepted and the monitor '.' printed, type the following

```
.RENAME FGAMMA.TMP FGAMMA.REL<CR>
```

```
.
```

Thank you for your report.

RT-11 Software Dispatch, July 1981

CTS-300 DICAM (3271) V3.1
for RT-11 V4.0
MODULES BSYFB.OBJ
BSYXM.OBJ
(PATCH 1)

Seq 55.1.1 M

1 of 2

INCORRECT ACK SENT IN CONVERSATIONAL MODE

PROBLEM STATEMENT:

IF THE HOST SYSTEM USES CONVERSATIONAL MODE, WHEREBY A DATA BLOCK IS SENT BY THE HOST IN RESPONSE TO A DATA BLOCK SENT BY DICAM, DICAM WILL RESPOND WITH THE WRONG ACKNOWLEDGEMENT.

SOLUTION:

THE FOLLOWING PATCH WILL CORRECT THE PROBLEM.

1. TO PATCH BSYFB.OBJ CREATE A FILE CALLED BFPAT1.MAC AS FOLLOWS:

```
.TITLE DICAM PROTOCOL DEPENDENT MODULE (PDM)
.CSECT
.IDENT /V03.01/
```

```
ACK0=160
ACK1=141
```

```
ENTER1=+.1770
POINT1=+.7624
```

```
.=ENTER1
    JSR    PC,POINT1

.=POINT1
    MOV    #ACK0*400+ACK1,52(R2)
    RTS    PC

.END
```

ASSEMBLE THE FILE

RENAME BSYFB.OBJ TO BSYFB.OLD

CORRECT THE OBJECT MODULE BSYFB.OBJ BY USING PAT AS FOLLOWS:

```
.R PAT
*BSYFB.OBJ=BSYFB.OLD/C:12410,BFPAT1.OBJ/C:7423
```

RT-11 Software Dispatch, July 1981

CTS-3000 DICAM (3271) V3.1
for RT-11 V4.0
MODULES BSYFB.OBJ
BSYXM.OBJ
(PATCH 1)

Seq 55.1.1 M

2 of 2

2. TO PATCH BSYXM.OBJ CREATE A DUPLICATE FILE OF BFPAT1.MAC NAMED BXPAT1.MAC AND MAKE THE FOLLOWING CHANGE:

POINT1=+.7644

ASSEMBLE THE FILE

RENAME BSYXM.OBJ TO BSYXM.OLD

CORRECT THE OBJECT MODULE BSYXM.OBJ BY USING PAT AS FOLLOWS:

.R PAT

*BSYXM.OBJ=BSYXM.OLD/C:17433,BXPAT1.OBJ/C:7523

3. RUN DIGEN TO GENERATE A NEW HANDLER CH.SYS OR CHX.SYS

RT-11 Software Dispatch, July 1981

CTS-300 DICAM (3271) V3.1
for RT-11 V4.0
MODULES UIMFB.OBJ
UIMXM.OBJ
(PATCH 2)

Seq 55.1.2 M

1 of 2

LOOP WHEN CLOSE IS ISSUED WITH OUTSTANDING I/O REQUESTS

PROBLEM STATEMENT:

A LOOP IS ENCOUNTERED IF THE HANDLER IS CLOSED AND THERE ARE OUTSTANDING RECEIVE OR TRANSMIT REQUESTS.

SOLUTION:

THE FOLLOWING PATCH WILL CORRECT THE PROBLEM.

1. TO PATCH UIMFB.OBJ CREATE A FILE CALLED UFPAT1.MAC AS FOLLOWS:

```
.TITLE  DICAM USER INTERFACE MODULE-UIM  
.CSECT  
.IDENT  /V03.01/
```

```
ENTER1=+.1062  
POINT1=+.3226  
POINT2=+.1106  
POINT3=+.1066
```

```
.=ENTER1  
    JMP     POINT1  
  
.=POINT1  
    TSTB   @R1  
    BNE    10$  
    JMP    POINT3  
  
10$:  ADD    #400,R2  
    JMP    POINT2  
  
.END
```

ASSEMBLE THE FILE

RENAME UIMFB.OBJ TO UIMFB.OLD

CORRECT THE OBJECT MODULE UIMFB.OBJ BY USING PAT AS FOLLOWS:

```
.R PAT  
*UIMFB.OBJ=UIMFB.OLD/C:14220,UFPAT1.OBJ/C:10313
```

RT-11 Software Dispatch, July 1981

CTS-300 DICAM (3271) V3.1
for RT-11 V4.0
MODULES UIMFB.OBJ
UIMXM.OBJ
(PATCH 2)

Seq 55.1.2 M

2 of 2

2. TO PATCH UIMXM.OBJ CREATE A DUPLICATE FILE OF UFPAT1.MAC NAMED UXPAT1.MAC AND MAKE THE FOLLOWING CHANGES:

ENTER1=+.1242
POINT1=+.3660
POINT2=+.1330
POINT3=+.1246

ASSEMBLE THE FILE

RENAME UIMXM.OBJ TO UIMXM.OLD

CORRECT THE OBJECT MODULE UIMXM.OBJ BY USING PAT AS FOLLOWS:

.R PAT
*UIMXM.OBJ=UIMXM.OLD/C:120270,UXPAT1.OBJ/C:10564

3. RUN DIGEN TO GENERATE A NEW HANDLER CH.SYS OR CHX.SYS

RT-11 V4.0
CUMULATIVE INDEX
JULY 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.

<u>Component</u>	<u>Autopatch Kit</u>	<u>Sequence</u>	<u>Mon/Yr</u>
RT-11 V4.0			
MONITOR PATCHES			
ISSUING .SETUP #-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
DEVICE HANDLER SOURCES			
DEVICE HANDLER NOTES			
RL02s AT REV. LEVEL "F" FAIL DURING RT-11 SYSGEN		6.1.1 N	Oct 80

<u>COMPONENT</u>	<u>AUTOPATCH KIT</u>	<u>SEQUENCE</u>	<u>MON/YR</u>
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 ERRORS ON RLO1 DISK DRIVES AFTER DISK PACKS ARE CHANGED	A B	6.5.1 M 6.5.2 M	Dec 80 Jan 81
DM.MAC ERRORS IN DM OFFSET POSITIONING AND ERROR LOGGING	A	6.6.1 M	Jul 80
LP.MAC LP SET NOHANG MAY CRASH SYSTEM	A	6.12.1 M	Sep 80
LS.MAC LS SET NOHANG MAY CRASH SYSTEM PROBLEMS WITH LS HANDLER USING AN LA120 TERMINAL AS A LINE PRINTER WITH THE LS HANDLER SET LS NOHANG IS CURRENTLY INOPERATIVE	A B	6.13.1 M 6.13.2 M 6.13.3 N 6.13.4 M	Sep 80 Jan 81 Jul 81 Jul 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 LINKING AN XM, NON-FILESTRUCTURED TS HANDLER GENERATES AN UNDEFINED GLOBAL INCORRECT READ ERROR RECOVERY IN MT HANDLER TS-11 DOES NOT RECOVER FROM SOFT ERROR ON WRITE EOF	A A A	6.20.1 M 6.20.2 M 6.20.3 M 6.20.4 M	Jul 80 Aug 80 Sep 80 Jul 81
SYSTEM UTILITIES			
PIP.SAV ERRORS IN PIP COPY/PREDELETE COMMAND MATCHING FILE SPECIFICATIONS ERRORS COPY/BINARY/WAIT AND LOG HEADER PROBLEMS COPY/PREDELETE AND COPY/NOREPLACE WORK INCORRECTLY WITH /WAIT ERROR WITH RENAME/NOREPLACE	A B B	7.1.1 M 7.1.2 N 7.1.3 M 7.1.4 M 7.1.5 M 7.1.6 M	Sep 80 Sep 80 Feb 81 Apr 81 Jun 81 Jul 81
DUP.SAV MISSING COLON IN BOOT XX CAUSES SYSTEM HALT SQUEEZE CREATES <UNUSED> ENTRIES OF LENGTH ZERO BEFORE .BAD FILES PROBLEMS WITH COPY/DEVICE AND INITIALIZE BOOTSTRAPPING AN UNPATCHED MONITOR FROM A PATCHED SYSTEM .SPFUN RETURN BUFFER PROCESSED INCORRECTLY FOR RK06/7 USE OF INITIALIZE/RESTORE ON MEDIA SUPPORTING BAD BLOCK REPLACEMENT PROBLEMS WITH INIT/BAD AND COPY/DEVICE PROBLEMS WITH INITIALIZE COMMAND ATTEMPT TO RESTORE UNCLOSED TENTATIVE FILES FAILS	A A A B B B B	7.2.1 M 7.2.2 M 7.2.3 M 7.2.4 N 7.2.5 M 7.2.6 N 7.2.7 M 7.2.8 M 7.2.9 M	Jul 80 Aug 80 Dec 80 Jan 81 Jan 81 May 81 May 81 Jun 81 Jul 81
DIR.SAV DIR/OUT COMMAND PRODUCES DEVICE NOT ACTIVE MESSAGE DIR/VOL GIVES ?MON-F-TRAP TO 4	A A	7.3.1 M 7.3.2 M	Jul 80 Dec 80
RESORC.SAV RESORC MAY REPORT INCORRECT JOB NAMES ON A SHOW JOBS COMMAND ADD CIS DETECTION CAPABILITY TO RESORC	A B	7.5.1 M 7.5.2 M	Aug 80 May 81
LINK.SAV LINK BYTE RELOCATION AND DIRECTORY SIZE LINK MAP PROCESSING ERROR LINK MAP ERROR AND MULTIPLE DEFINITION LIBRARIES RT-11 V4 LINKER RESTRICTION LINK TRANSFER ADDRESS CALCULATION BUGS	A A A B B	7.9.1 M 7.9.2 M 7.9.3 M 7.9.4 R 7.9.5 M	Jul 80 Aug 80 Oct 80 Jan 81 Mar 81
LIBR.SAV A LIBR COMMAND WITH NO FILE-SPEC CAN CAUSE A SYSTEM CRASH LIBR ERRORS LIBR CORRUPTS FORM LIBRARY DIRECTORY	A	7.10.1 M 7.10.2 M 7.10.3 M	Jul 80 Jul 81 Jun 81

<u>COMPONENT</u>	<u>AUTOPATCH KIT</u>	<u>SEQUENCE</u>	<u>MON/YR</u>
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
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
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
<u>SYSTEM SUBROUTINE LIBRARY (SYSLIB)</u>			
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
<u>SYSTEM MACRO LIBRARY</u>			
.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
<u>SYSTEM GENERATION PACKAGE</u>			
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
<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
CHANGES TO DUP /I OPTION		11.2.3 N	Apr 81
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 RLO2 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

<u>COMPONENT</u>	<u>AUTOPATCH KIT</u>	<u>SEQUENCE</u>	<u>MON/YR</u>
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
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
QUEMAN.SAV			
PROBLEMS WITH QUEMAN	B	16.2.1 M	Jan 81
KEYPAD EDITOR			
KED			
MAKE TERMINAL SETUP OPTIONAL IF MATCH 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 IS 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
K52			
MAKE TERMINAL SETUP OPTIONAL IF MATCH 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
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

COMPONENTAUTOPATCH KITSEQUENCEMON/YR

BASIC-11/RT-11 V2.0

INTERPRETER

REPLICATION 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 CTRL/C, RCTRL/C 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

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

<u>COMPONENT</u>	<u>AUTOPATCH KIT</u>	<u>SEQUENCE</u>	<u>MON/YR</u>
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 MANIPULATION 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

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
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 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

<u>COMPONENT</u>	<u>AUTOPATCH KIT</u>	<u>SEQUENCE</u>	<u>MON/YR</u>
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
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
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			
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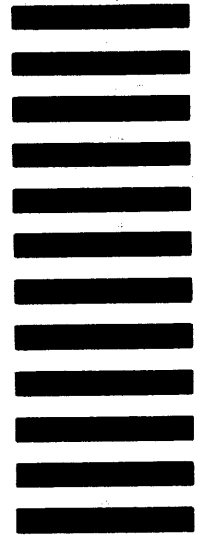


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