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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

BASIC-11/RT-11 V2  
CTS-300 V6  
DECnet-RT V1.1  
FMS-11/RT-11 V1.1  
FORTRAN GRAPHICS  
PACKAGE V1.1

FORTRAN/RT-11 LAB Extensions V1  
FORTRAN IV/RT-11 V2.5  
GAMMA-11 F/B V3  
LSP-11 V1.1  
MSB11 V1  
MSB/FORTRAN IV V1

MU BASIC-11/RT-11 V2  
PLOT 11/RT-11 V1.1  
RT-11 V4  
RT-11 2780/3780  
Protocol Emulator V4  
SSP-11 V1.2

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

### What You Can Do for Us:

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 For security SPRs, it is imperative that the DO NOT PUBLISH box be marked.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

RT-11 V4.0  
Monitor Patches  
RT-11FB V04.00F  
RT-11SJ (S) V04.00F  
RT-11FB (S) V04.00K  
RT-11XM (S) V04.00N

Seq 1.1.18 M

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Supersedes article dated September 1981

## UPDATES TO MONITOR FILES (JM)

### \*\*\*\*\* REPLACEMENT ARTICLE \*\*\*\*\*

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

#### FB distributed monitor:

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

#### System generated monitors:

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

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

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

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

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

1. The following is a required patch to the RT-11FB V04.00F (distributed) foreground background monitor. It must be installed in all copies of RT11FB.SYS (previously modified in Seq 1.1.16 M).

RT-11 V4.0  
Monitor Patches  
RT-11FB V04.00F  
RT-11SJ (S) V04.00F  
RT-11FB (S) V04.00K  
RT-11XM (S) V04.00N

Seq 1.1.18 M

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

This patch is installed by using SIPP, the Save Image Patching Program. First, ensure that a copy of the monitor file to be patched is on a mounted volume. Using an editor, create the file RT11FB.007 as follows. Replace 'DK:' in the patch below with the name of the device that contains the monitor file.

```
RU1 SIPP
DK:RT11FB.SYS/C
0
4736
47166
^Z (up-arrow/Z)
4760
43460
^Z (up-arrow/Z)
^Z (up-arrow/Z)
36352
3726
4767
12576
^Z (up-arrow/Z)
^Z (up-arrow/Z)
55044
34
417
11127
0
21127
1
240
^Z (up-arrow/Z)
74
26727
177740
1
1006
13700
```

RT-11 V4.0  
Monitor Patches  
RT-11FB V04.00F  
RT-11SJ (S) V04.00F  
RT-11FB (S) V04.00K  
RT-11XM (S) V04.00N

Seq 1.1.18 M

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

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

@RT11FB.007

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

- 3. After the patch has been installed, 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 source file BSTRAP.MAC. You must apply it to the updated copy previously modified in Seq 1.1.16 M.

To install the patch, first create a patch file for input to the SLP utility. Using an editor, create a file called BSTRAP.017 on your system volume. Enter the text below into the file. The hyphen must be the first character in the file. The special symbol "<tab>" indicates the TAB character. All other blank spaces in the text should be entered in the file as single SPACE characters.

-/ELBSTR<tab>== 24/,./;017/  
ELBSTR<tab>== 25  
-24,24,./;017/  
PATLSJ<tab>= 4  
-27,27,./;017/  
PATLFX<tab>= 11  
-182,./;017/  
<tab>MOV<tab>R4,-(SP)  
<tab>CLR<tab>R4  
-183,./;017/  
<tab>MOV<tab>(SP)+,R4  
-605,607,./;017/  
<tab>CALL<tab>@#XMREL+<BUFFB-RELLST>  
<tab>MOV<tab>MEMSIZ,-(R1)  
<tab>ADD<tab>#<RMSTAK-\$XMSIZ>,R1

RT-11 V4.0  
 Monitor Patches  
 RT-11FB V04.00F  
 RT-11SJ (S) V04.00F  
 RT-11FB (S) V04.00K  
 RT-11XM (S) V04.00N

Seq 1.1.18 M

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```
-1588,,/;017/
.IF NE MMG$T
XMREL::<tab>MOV<tab>#$XMPTR,R1
<tab>ADD<tab>R4,R1
<tab>MOV<tab>R1,DECNET(R4)
<tab>RETURN
.ENDC
/
```

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

To install the patch, first create a patch file for input to the SLP utility. Using an editor, create a file called RMONFB.010 on your system volume. Enter the text below into the file. The hyphen must be the first character in the file. The special symbol "<tab>" indicates the TAB character. All other blank spaces in the text should be entered in the file as single SPACE characters.

```
-/ELRMFB<tab>== 13/.,/;010/
ELRMFB<tab>== 14
-108,108,/;010/
FORK::<tab>.WORD<tab>$FORK-$RMON
-699,,/;010/
ERRHOK::
-1334,,/;010/
RCTHOK::
-1539,,/;010/
<tab>MOV<tab>@R1,(PC)+
GTLFLG:<tab>.WORD<tab>0
-1587,,/;010/
<tab>CMP<tab>GTLFLG,#1
<tab>BNE<tab>77$
-1590,,/;010/
77$:
-1712,,/;010/
EXIHOK::
-3638,,/;010/
GTIHOK::
-3736,,/;010/
CMTHOK::
-3875,3875,/;010/
```



RT-11 V4.0  
 Monitor Patches  
 RT-11FB V04.00F  
 RT-11SJ (S) V04.00F  
 RT-11FB (S) V04.00K  
 RT-11XM (S) V04.00N

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```
.ROM<tab>MOV<tab>#100000,FPPFLG,GLOBAL=YES
-3898,3898,;/;010/
.ROM<tab>ADD<tab>R5,PSCLOK,GLOBAL=YES
-3933,,;/;010/
ENSHOK::
-3946,3946,;/;010/
.ROM<tab>MOV<tab>SP,TASKSP,GLOBAL=YES
-4016,,;/;010/
FPSHOK::
-4415,4415,;/;010/
100$:<tab>SEC
<tab>ROR<tab>-(R0)
-4562,,;/;010/
CRRHOK::
/
```

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

To install the patch, first create a patch file for input to the SLP utility. Using an editor, create a file called MTTEMT.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 spaces in the text should be entered in the file as single SPACE characters.

```
-/ELMTEM<tab>= 0/,,;/;001/
ELMTEM<tab>= 1
-357,357,;/;001/
<tab>BIC<tab>#TCBIT$!TTSPC$!TTLC$,@R3
-433,433,;/;001/
MTTGET::
<tab>JSR<tab>PC,GETPSW
-448,,;/;001/
MTTHOK::
/
```

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

To install the patch, first create a patch file for input to the SLP utility. Using an editor, create a file called MTTINT.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.

RT-11 V4.0  
Monitor Patches  
RT-11FB V04.00F  
RT-11SJ (S) V04.00F  
RT-11FB (S) V04.00K  
RT-11XM (S) V04.00N

Seq 1.1.18 M

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```
-/ELMTIN<tab>== 10/,./;005/  
ELMTIN<tab>== 11  
-162,./;005/  
DLIHOK::  
-198,./;005/  
DLIHOK::  
-209,./;005/  
FRQHOK::  
-940,./;005/  
.ENABL LSB  
-969,./;005/  
DLOHOK::  
-1008,./;005/  
PCHHOK::  
-1010,./;005/  
DSBHOK::  
-1012,./;005/  
.DSABL LSB  
/  
/
```

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

```
.R SLP  
*BSTRAP=BSTRAP,BSTRAP.017  
*RMONFB=RMONFB,RMONFB.010  
*MTTEMT=MTTEMT,MTTEMT.001  
*MTTINT=MTTINT,MTTINT.005  
*^C
```

(CTRL/C to exit)

9. Repeat the assembly and link of your generated monitor, using the command file MONBLD.COM that was produced during system generation. Alternately, you can manually 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.
10. The resulting version of the SJ generated monitor will be RT11SJ (S) V04.00G. The resulting version of the FB generated monitor will be RT11FB (S) V04.00L. The resulting version of the XM generated monitor will be RT11XM (S) V04.00O.
11. Preserve the patched source files. If there are any future corrections, you will be required to apply them to the patched source files.

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

Seq 7.1.7 M  
1 of 1

**/POSITION:N SWITCH FOR MAGTAPE INPUT WORKS INCORRECTLY (DBF)**

When copying files from magtape using the /POSITION:n switch, where n is a positive integer, PIP ignores the /POSITION switch and copies all files that match the input specifications. PIP should advance the tape to file sequence number n, and begin searching for matching input files from that point on the tape.

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. Create the file, PIP.006 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
106
^Z                               (up-arrow/Z)
10076
402
^Y                               (up-arrow/Y)
45100
^C                               (CTRL/C to exit)

```

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

@PIP.006

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

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

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

Seq 7.2.11 M

1 of 1

### OUTPUT ERROR DURING COPY/DEVICE TO MAGTAPE CAUSES SYSTEM ERROR (DBF)

If an output error occurs while doing a COPY/DEVICE to magtape, DUP causes a system halt or trap to 4.

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

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

2. This patch is installed using SIPP, the Save Image Patching Program. First, ensure that a copy of the file DUP.SAV is on a mounted volume. Create the file, DUP.010 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
112
^Z                               (up-arrow/Z)
22324
106
^Y                               (up-arrow/Y)
140106
^C                               (CTRL/C to exit)
```

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

```
@DUP.010
```

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

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

### PIP ERROR MESSAGES MISSING (MS)

The following PIP error messages were inadvertently omitted from the RT-11 System Message Manual:

#### ?PIP-F-Directory full DEV:

No space exists in the output volume's directory to create the output file.

Use the SQUEEZE command to consolidate free space on the output volume, or copy the output volume to a volume with a larger number of directory segments and reenter the command.

#### ?PIP-F-Fetch error DEV:

1. A serious PIP or system internal error occurred.  
  
The copy of PIP.SAV, the monitor file, or the specified device handler may be corrupted on disk.
2. The in-core copy of PIP or the monitor may be corrupted.

Reboot the system and retry the operation. If the error occurs again, obtain a new copy of PIP.SAV and the specified device handler. Retry the operation. If the error still occurs, submit an SPR to DIGITAL; include with the SPR a program listing and a machine-readable source program, if possible.

#### ?PIP-W-Output file found, no operation performed DEV:FILNAM.TYP

The monitor /NOREPLACE or PIP /N option was used in the command line, and a file already exists on the output device with the same name as the output file you are trying to create.

Use a different name for the output file, or retype the command line and do not include the /NOREPLACE or PIP /N option.

#### ?PIP-F-Protected file DEV:FILNAM.TYP

An attempt was made to delete a protected file.

Unprotect the file using the monitor RENAME/NOPROTECT command or the PIP /Z option and retype the command.

#### ?PIP-F-Protected file already exists DEV:FILNAM.TYP

A protected file already exists on the output device, with the same name as the file name specified in the command.

Use a different name for the output file.

These messages will be included in the next release of the RT-11 System Message Manual.

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

Seq 45.2.11 M

1 of 2

EMBEDDED BLANKS OVERRIDES THE ICNT PARAMETER IN THE ASSIGN ROUTINE (PAT 14)

PROBLEM:

The CALL ASSIGN routine will override the ICNT parameter when embedded blanks occur within the file name string.

SOLUTION:

1. Type in the following MACRO file: PAT14.MAC

PAT14.MAC:

```
        .TITLE  SASSIGN/OPEN
        .IDENT  /007/
        .PSECT  OTSSI

S=.
.=S+60   JMP      REMBL

.=S+76
CMPRSD:
.=S+26   JMP      ASGND

RET:
.=S+372
RETNOP:
.=S+404
GETARG:
.=S+424
REMBL:
        TST     R1
        BEQ     EOS
EMBED:  CMPB    @R0,#40
        BNE     CON
        INC     R0
        BR      NOBL
CON:    MOVB    (R0)+,(R2)+
        BNE     NOBL
        TSTB   -(R2)
        BR      EOS
NOBL:  DEC     R1
        BNE     EMBED
EOS:    CLRB    @R2
```

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

Seq 45.2.11 M

2 of 2

```
          JMP      CMPRSD
ASGND:   BIS      #40,34(R0)
          DECB    R4
          BLE     RETNOP
          JMP     RET
          .END
```

2. Assemble the patch using MACRO-11

```
.R MACRO
*PAT14=PAT14
*^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.SAV
*OTSCOM=OTSCOM/C:72206,PAT14/C:16531
```

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      NAME(10)
      NAME(1)='A'
      NAME(2)='S'
      NAME(3)='G'
      NAME(4)='N'
      NAME(5)=' '
      NAME(6)=' '
      NAME(7)='.'
      NAME(8)='C'
      NAME(9)='H'
      NAME(10)='K'
      CALL ASSIGN(21,NAME,10,'NEW')
      WRITE(21,10) NAME
10     FORMAT(' NAME IS ',10A1)
      END
```

Which should produce the file ASGN.CHK.

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

Seq 45.2.12 M  
1 of 2

THE DEFAULT CARRIAGE CONTROL FOR THE ASSIGN ROUTINE IS INCORRECT (PAT 15)

PROBLEM:

The FORTRAN OTS does not properly set the default carriage control for sequential files assigned by the ASSIGN routine. Patch 14 (Seq 45.2.11M) must have been applied to the OTS before this correction can be applied.

SOLUTION:

1. Type in the following MACRO file: PAT15.MAC

PAT15.MAC:

```
.TITLE $OPEN
.IDENT /007/
.PSECT OTS$0

S=.
.=S+550
    BIT    #2200,@R0
.=S+556
    JMP    ASGN

RET:
.=S+1104
ASGN:
    BIT    #20,@R0
    BNE    4$
    BIT    #1000,@R0
    BEQ    3$
    BIT    #40,34(R0)
    BEQ    3$
4$:    BIS    #40,@R0
3$:    JMP    RET
    .END
```

2. Assemble the patch using MACRO-11

```
.R MACRO
*PAT15=PAT15
*^C
```



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

Seq 45.2.12 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.SAV  
*OTSCOM=OTSCOM/C:161143,PAT15/C:13225
```

4. Rebuild the OTS using the procedure described in the FORTTRAN IV Installation Guide.
5. Test the patch by creating and compiling the following FORTTRAN program.

```
CALL ASSIGN(1,'ASSIGN.DAT',10)  
WRITE(1,1)  
1  FORMAT('ØWHEN ZERO APPEARS AS THE FIRST')  
WRITE(1,2)  
2  FORMAT(' CHARACTER ON THE LINE ABOVE THE PATCH IS SUCCESSFUL')  
END
```

Which should produce a file ASSIGN.DAT, which contains the following:

```
ØWHEN ZERO APPEARS AS THE FIRST  
CHARACTER ON THE LINE ABOVE THE PATCH IS SUCCESSFUL
```

GAMMA-11 V3.1  
FGAMMA

Seq 49.2.2 M

1 of 1

SYSTEM MAY HANG WHEN DISK SQUEEZED (JB)

There is an error in the foreground program which causes the system to hang when the disk is squeezed using the FGAMMA option DELETE immediately after performing a Gated acquisition in the foreground.

To correct this problem follow the procedure below using a copy of the distribution disk.

DO NOT PATCH THE DISTRIBUTION DISK.

1. Create the patch file FGAMMA.003 with the contents shown below.

```
RUN SIPP
DK:FGAMMA.REL/C
6
13750
1624
4767
142
^Z          (UP-ARROW /Z)
1772
5046
13746
54
62716
360
4736
11211
14241
207
^Y          (UP-ARROW /Y)
65346
^C          (UP-ARROW /C)
```

2. Replace 'DK:' in the patch file with the name of the device which contains the copy of FGAMMA.REL to be patched.
3. Apply the patch by typing:  
@FGAMMA.003
4. Configure the GAMMA-11 system disk (refer to the GAMMA-11 SYSTEM REFERENCE MANUAL).

GAMMA-11 V3.1  
BGAMMA  
DATANL

Seq 49.5.1 M  
1 of 1

ISOMETRIC DISPLAY IMAGES USE INCORRECT INTENSITY LEVELS (JB)

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

DO NOT PATCH THE DISTRIBUTION DISK

1. Create the patch file DATANL.004 with the contents shown below.

```
RUN      SIPP
DK:DATANL.SAV/C
4
55012
4602
177740
^Y          (UP-ARROW /Y)
15332
^C          (UP-ARROW /C)
```

2. Replace 'DK:' in the patch file with the name of the device which contains the copy of DATANL.SAV to be patched.
3. Apply the patch by typing:

```
@DATANL.004
```

CTS-300 V06  
for RT-11 V4.0  
DBUILD V05-00  
DECFORM V06-00A  
(PATCH 21)

Seq 51.2.1 M  
Seq 51.4.2 M  
1 of 4

CORRECTION FOR THREE DECFORM PROBLEMS (LG)

- 1) Patch 21 will allow a DECFORM program to:
  - a) use the VT100 attributes if the terminal is a VT100 and it is in ANSI mode when the program is started.
  - b) use a VT100 in VT52 mode if it is in VT52 mode when the program is started.

Furthermore, when the DECFORM program is terminated, the VT100 terminal will be left in the mode in which it had been prior to starting up the DECFORM program.

- 2) Using the value check option, which compares the contents of a data field against a table of values, can cause a subscript error. Patch 21 corrects this so that using the value check option does not cause a subscript error.
- 3) Using DECFORM under Verify mode, if a line of code has an "R" for required, and a "V" for verify, a problem results if the field has a value. If the operator does not enter a value (for verifying) and presses the carriage return key, the field value changes to zero. Patch 21 corrects this so that under these conditions the field contains the proper value.

Patch 21 corrects these problems as stated above, and changes the version number of DBUILD to V06-00A and DECFORM to V06-00B.

Using the editor, create the following files. Name them as indicated in the comment line that is the first line of 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 each .PAT file is "/". You must terminate each line in those files with a carriage return, including the last line "/".

CTS-300 V06  
 for RT-11 V4.0  
 DBUILD V05-00  
 DECFORM V06-00A  
 (PATCH 21)

Seq 51.2.1 M

Seq 51.4.2 M

2 of 4

```

;P021A.PAT
-1,1
-435,435
VERSN,  EROR='DECFORM V06-00B '
-751,751
TYV,    IF (V.LT.0) GOTO OPTION
/
    
```

```

;P021B.PAT
-64
,A73,' RECORD'
,A73,' TCODE,    A7'
,A73,' TANS,     D2'
,A73,' TCTR,     D2'
-68,68
,A73,' ;XCALL FLAGS(01000000)           ;SUPPRESS STOP MESSAGE'
,A73,' XCALL FLAGS (01010000,1)         ;SUPPRESS ECHO & STOP MESSAGE'
,A73,' DISPLAY (1,27,'Z')               ;WHAT ARE YOU'
,A73,' SLEEP 1'
,A73,' LUPE0,    XCALL TTSTS (TANS)'
,A73,' IF(TANS.EQ.0) GOTO VTCNT0'
,A73,' INCR TCTR'
,A73,' ACCEPT (1,TCODE(TCTR,TCTR))'
,A73,' GOTO LUPE0'
,A73,' VTCNT0,   IF(TCODE(3,3).EQ.'?') DISPLAY (1,27,'[?2',108)'
,A73,' XCALL FLAGS (00010000,0)         ;TURN ECHO ON'
-107
,A73,' IF(TCODE(3,3).EQ.'?') DISPLAY (1,27,'<')'
-135,135
,A73,' EXIT,     IF(TCODE(3,3).EQ.'?') DISPLAY (1,27,'<')'
,A73,' STOP'
-140,141
MAXCT,  D3,102           ; # OF LINES OF 'CANNED CODE' TO WRITE
SUM,    D3
-163,163
RECORD
TCODE,  A7
TANS,   D2
TCTR,   D2

-167,167
XCALL FLAGS (01010000,1)           ;SUPPRESS ECHO & STOP MESSAGE
DISPLAY (1,27,'Z')                 ;WHAT ARE YOU
SLEEP 1
LUPE0,  XCALL TTSTS (TANS)
IF(TANS.EQ.0) GOTO VTCNT0
INCR TCTR
ACCEPT (1,TCODE(TCTR,TCTR))
GOTO LUPE0
VTCNT0, IF(TCODE(3,3).EQ.'?') DISPLAY (1,27,'[?2',108)
XCALL FLAGS (00010000,0)           ;TURN ECHO ON
DISPLAY (1,27,'Y',32,32,27,'J', 'DBUILD V06-00A',13,10,10)
-241
IF(TCODE(3,3).EQ.'?') DISPLAY (1,27,'<')
    
```

CTS-300 V06  
 for RT-11 V4.0  
 DBUILD V05-00  
 DECFORM V06-00A  
 (PATCH 21)

Seq 51.2.1 M  
 Seq 51.4.2 M  
 3 of 4

!P021C.PAT  
 -57,57

```
\
      .ASCII /          ;DISPLAY (1,27,'<')      ;ATTEMPT TO SET VT100 MODE/<CR><LF>
/
```

!P021D.MAC

```
      .TITLE FOC5
      .CSECT FOC5
P021:
      .=      .+2230
      JMP     P021A
      .PSECT $P021
P021A: BEQ     7$
      CMP     (R0)+,(R0)+
      JMP     P021+2222
7$:    TST     (R0)+
      JMP     P021+2234
      .END
```

.RENAME DECF0.DBL,DBUILD.DBL,FOC12.MAC \*.OLD

Files renamed:

```
DK:DECF0.DBL to DK:DECF0.OLD
DK:DBUILD.DBL to DK:DBUILD.OLD
DK:FOC12.MAC to DK:FOC12.OLD
```

.RENAME FOC5.OBJ,FOCOMP.SAV \*.OLD

Files renamed:

```
DK:FOC5.OBJ to DK:FOC5.OLD
DK:FOCOMP.SAV to DK:FOCOMP.OLD
```

.R SLP

```
*!DECF0.DBL=DECF0.OLD,P021A.PAT
*!DBUILD.DBL=DBUILD.OLD,P021B.PAT
*!FOC12.MAC=FOC12.OLD,P021C.PAT
*^C
```

.R MACRO

```
*FOC12=FOC0,FOC12
ERRORS DETECTED: 0
*P021D=P021D
ERRORS DETECTED: 0
*^C
```

.R PAT

```
*FOC5.OBJ=FOC5.OLD/C:047737,P021D/C:020305
```

.R DICOMP

```
*DBUILD=DBUILD/W/O
```

```
NO ERRORS DETECTED
*^C
```

CTS-300 V06  
for RT-11 V4.0  
DBUILD V05-00  
DECFORM V06-00A  
(PATCH 21)

Seq 51.2.1 M

Seq 51.4.2 M

4 of 4

```
.R LINK
*FOCOMP=FOC1/C
*FOC2/0:1/C
*FOC3/0:1/C
*FOC4/0:2/C
*FOC5/0:2/C
*FOC6/0:2/C
*FOC7/0:3/C
*FOC8/0:3/C
*FOC9/0:3/C
*FOC10/0:3/C
*FOC11/0:3/C
*FOC12/0:3
*DBUILD=DBUILD,DIBOL
*^C
```

CTS-300 V06  
for RT-11 V4.0  
DICOMP V06-00  
(PATCH 22)

Seq 51.6.1 M

1 of 3

FOUR DICOMP ERRORS FIXED (LG)

Patch 22 corrects the following problems in DICOMP:

- 1) If the output file specified in a DICOMP command string exists as a protected file, the message "INPUT FILES?" is incorrectly generated. Patch 22 corrects this so that the error message "PROTECTED FILE" is generated instead.
- 2) In a DIBOL program, if the comment after the START statement is 50 or more characters long, the first line of code on each page of the resulting compilation will be displaced to the right when output to the terminal. Patch 22 corrects this so that under these conditions the first code line is not displaced.
- 3) In another situation, the line printer is set to NOHANG and the printer is off line when DICOMP is run. If a listing file is requested, the incorrect error message "LISTING OUT OF ROOM" is generated. Patch 22 corrects this so that the error message "LISTING I/O ERROR" is generated instead.
- 4) If the DIBOL compiler options /G (to create a log file of errors generated during compilation) and /C (to produce a cross-reference listing) are both used, no log file is created. Patch 22 corrects this so that under these circumstances a log file is created in addition to the listing file.

The version number of DICOMP changes to V06-00A.

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 V06  
 for RT-11 V4.0  
 DICOMP V06-00  
 (PATCH 22)

Seq 51.6.1 M  
 2 of 3

```

;P022A.MAC
    .TITLE  INIT
    .CSECT  INIT
P022:
    .=      .+262
    JMP     P022A
    .=      P022+3333
    .BYTE   'A

    .PSECT  $P022
P022A:  CMP     R1,#4
        BNE     1$
        MOV     #PRFIL,R0
        BR      2$
1$:     MOV     P022+2404(R1),R0
2$:     JMP     P022+266
PRFIL:  .ASCIZ  /PROTECTED FILE/
        .END
    
```

```

;P022B.MAC
    .TITLE  ROOT
    .CSECT  ROOT
    .MCALL  .WRITW
P022:
    .=      .+4004
    JMP     P022A
    .=      P022+4402
    NOP
    .=      P022+4412
    NOP
    NOP
    NOP
    .=      P022+4554
    .WRITW
    BCC    P022+4412

    .PSECT  $P022
P022A:  DEC     R2
        BGT     1$
        JMP     P022+4020
1$:     JMP     P022+3774
        .END
    
```

CTS-300 V06  
for RT-11 V4.0  
DICOMP V06-00  
(PATCH 22)

Seq 51.6.1 M

3 of 3

```
#P022C.MAC
        .TITLE  SYMBOL TABLE OUTPUT
        .CSECT  ENCODS
        .GLOBL  SWG
        .GLOBL  CLOSEG
        .GLOBL  OUTCRF
P022:
        .=      .+3254
        JMP     P022A

        .PSECT  $P022
P022A:  JSR     PC,OUTCRF
5$:     TSTB   SWG
        BEQ    7$
        JSR     PC,CLOSEG
7$:     JMP     P022+3260
        .END

.RENAME DICOMP.SAV,(INIT,ROOT,ENCOD).OBJ *.OLD
Files renamed:
DK:DICOMP.SAV to DK:DICOMP.OLD
DK:INIT.OBJ to DK:INIT.OLD
DK:ROOT.OBJ to DK:ROOT.OLD
DK:ENCOD.OBJ to DK:ENCOD.OLD

.MACRO P022A,P022B,P022C
ERRORS DETECTED: 0
ERRORS DETECTED: 0
ERRORS DETECTED: 0

.R PAT
*INIT.OBJ=INIT.OLD/C:005142,P022A/C:016513

.R PAT
*ROOT.OBJ=ROOT.OLD/C:133070,P022B/C:017723

.R PAT
*ENCOD.OBJ=ENCOD.OLD/C:076402,P022C/C:020543

.R LINK
*DICOMP=ROOT,FATAL/C
*INIT/O:1/C
*DATA/O:1/C
*PROC/O:1/C
*ENCOD/O:1/C
*DILINK/O:2/C
*DICERR/O:2
*^C
```

CTS-300 V06  
for RT-11 V4.0  
DKED V06-00B  
(PATCH 23)

Seq 51.7.3 M

1 of 7

DKED INCORRECTLY HANDLES CONTINUED LINES

When editing, if any function such as forward cutting is used followed by an UP or a TOP command from the keypad an MMU fault occurs. This usually happens when continuous lines are involved.

Patch 23 corrects the problems with continued lines and also changes the version number of DKED to V06-00C.

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

Corrections are made to the source module using SLP (Source Language Patch) program. Please note that the last record in the file P023.PAT file is "/". You must terminate each line in that file with a carriage return, including the last line "/".

NOTE: When using the DKED editor on a VT100 terminal, the wraparound bit in the SETUP B screen of the terminal should be set to a 0. This wraparound bit is the second bit in the third word in SETUP B.

CTS-300 V06  
 for RT-11 V4.0  
 DKED V06-00B  
 (PATCH 23)

Seq 51.7.3 B

2 of 7

```

;P023A.MAC
    .TITLE   DISCN
    .CSECT   DISCN
    .GLOBL   TABLE#
P023A:
    .=.+320
    JMP     P023A1
    .=.+122
    JMP     P023A2

    .PSECT   $P023A

P023A1: MOVB   #12,(R1)+
        CLRB   TABLE#+52
        JMP   P023A+324
P023A2: CMPB   TABLE#+52,#2
        BEQ   P023A3
        CLRB   TABLE#+52
P023A3: JMP    P023A+452

    .END

;P023B.MAC
    .TITLE   LASTP
    .CSECT   LASTP

    TABLE = ^D46
P023B:  .=.+222
        JMP   P023B1

    .PSECT   $P023B

P023B1: CMPB   TABLE+52(R2),#1
        BEQ   P023B2
        JMP   P023B+250
P023B2: JMP    P023B+230

    .END

;P023C.MAC
    .TITLE   DOWN
    .CSECT   DOWN
    .GLOBL   TABLE#
P023C:  .=.+106
        JMP   P023C1

    .PSECT   $P023C

P023C1: CMPB   TABLE#+52,#1
        BEQ   P023C2
        JMP   P023C+216
P023C2: JMP    P023C+114

    .END

```

CTS-300 V06  
 for RT-11 V4.0  
 DKED V06-00B  
 (PATCH 23)

Seq 51.7.3 M  
 3 of 7

```

;P023D.MAC
    .TITLE   DISP
    .CSECT   DISP
    .GLOBL   TABLE$

P023D:  .,+.104
        JMP   P023D1
        .,+.310
        JMP   P023D3
        .,+.12
        JMP   P023D5

        .PSECT $P023D

P023D1: CMPB   TABLE$+52,#1
        BEQ   P023D2
        JMP   P023D+130
P023D2: JMP   P023D+112

P023D3: CMPB   TABLE$+16,#2
        BEQ   P023D4
        JMP   P023D+426
P023D4: JMP   P023D+452

P023D5: CMPB   TABLE$+16,#2
        BEQ   P023D6
        JMP   P023D+444
P023D6: JMP   P023D+504

        .END
    
```

```

;P023E.MAC
    .TITLE   DSCROL
    .CSECT   DSCROL
    .GLOBL   TABLE$

P023E:  .,+.62
        JMP   P023E1

        .PSECT $P023E

P023E1: CMPB   TABLE$+16,#1
        BEQ   P023E2
        JMP   P023E+174
P023E2: JMP   P023E+70

        .END
    
```

```

;P022.PAT
-1,1
-207,207
    DIS1,   A12,'DKED V06-00C'
/
    
```

CTS-300 V06  
for RT-11 V4.0  
DKED V06-00B  
(PATCH 23)

Seq 51.7.3 M

4 of 7

.LIBRARY/EXTRACT  
Library? EDLIB  
File ? DISC  
Global? DISC  
Global? <cr>            (<cr> means RETURN key)

.LIBRARY/EXTRACT  
Library? EDLIB  
File ? DISP  
Global? DISP  
Global? <cr>

.LIBRARY/EXTRACT  
Library? EDLIB  
File ? LASTP  
Global? LASTP  
Global? <cr>

.LIBRARY/EXTRACT  
Library? EDLIB  
File ? DOWN  
Global? DOWN  
Global? <cr>

.LIBRARY/EXTRACT  
Library? EDLIB  
File ? DSCROL  
Global? DSCROL  
Global? <cr>

.RENAME (EDLIB,DISP,DISC).OBJ \*.OLD  
Files renamed:  
DK:EDLIB.OBJ to DK:EDLIB.OLD  
DK:DISP.OBJ to DK:DISP.OLD  
DK:DISC.OBJ to DK:DISC.OLD

.RENAME (LASTP,DOWN,DSCROL).OBJ \*.OLD  
Files renamed:  
DK:LASTP.OBJ to DK:LASTP.OLD  
DK:DOWN.OBJ to DK:DOWN.OLD  
DK:DSCROL.OBJ to DK:DSCROL.OLD

.RENAME STRTO.DBL STRTO.OLD

.MACRO P023A,P023B,P023C,P023D,P023E  
ERRORS DETECTED: 0  
ERRORS DETECTED: 0  
ERRORS DETECTED: 0  
ERRORS DETECTED: 0  
ERRORS DETECTED: 0

CTS-300 V06  
for RT-11 V4.0  
DKED V06-00B  
(PATCH 23)

Seq 51.7.3 M  
5 of 7

.R PAT  
\*DISCN.OBJ=DISCN.OLD/C:151761,P023A/C:024340

.R PAT  
\*LASTP.OBJ=LASTP.OLD/C:050530,P023B/C:014727

.R PAT  
\*DOWN.OBJ=DOWN.OLD/C:135474,P023C/C:015675

.R PAT  
\*DISP.OBJ=DISP.OLD/C:157236,P023D/C:027254

.R PAT  
\*DSCROL.OBJ=DSCROL.OLD/C:066613,P023E/C:020072

.R LIBR  
\*EDLIB.OBJ/A=EDLIB.OLD,DISCN/R,DISP/R,LASTP/R,DOWN/R,DSCROL/R  
\*^C

.R SLP  
\*STRTO.DBL=STRTO.OLD,P023.PAT  
\*^C

.R DICOMP  
\*STRTO=STRTO/O

NO ERRORS DETECTED  
\*^C

CTS-300 V06  
for RT-11 V4.0  
DKED V06-00B  
(PATCH 23)

Seq 51.7.3 M

6 of 7

```
,RUN LINK
*DNED=DNED,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
*DROFN,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,AFNDA/O:1
*STRT0/O:1
*STRT1/O:1
*STRT2/O:1
*WPAGE/O:1
*XCASE,LINSP,RESEL,UNDEL/O:1
*CUTC1,CRSTR,UILCH/O:1
*YANK,ZTARG/O:1
*//
*^C
```



CTS-300 V06  
for RT-11 V4.0  
DKED V06-00B  
(PATCH 23)

Seq 51.7.3 M

7 of 7

```
.RUN LINK
*DKED,TSD/B:100000=DKED,EDLIB,TDIBOL/P:500.//
*COMND/O:1
*COMN2/O:1
*CUTA,CUTE/O:1
*CUTC,TOPE/O:1
*CUTD/O:1
*CUTD0,BEOL/O:1
*DELLN/O:1
*DLCH4,D2CHA/O:1
*D3CHA/O:1
*DQUIT,DSCL1/O:1
*DROFN,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
*REFLC/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

.RUN REDUCE
*DKED/N
*^C
```

RT-11 Software Dispatch, October 1981

CTS-300 V06  
for RT-11 V4.0  
TSD VB06-00D  
XMTSD VC06-00G  
(PATCH 20)

Seq 51.18.5 M  
Seq 51.20.8 M

1 of 3

CORRECTION FOR ISAM PROBLEM (LG)

If multiple users of an ISAM file have it opened in SU mode, it is possible records of data can be corrupted. This is caused by the corruption of linkage information. The problem occurs when there is a great deal of overflow usage due to the splitting of groups.

The following patch corrects the problem and changes the version number of TSD to VB06-00E and XMTSD to VC06-00H.

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 V06  
 for RT-11 V4.0  
 TSD VB06-00D  
 XMTSD VC06-00G  
 (PATCH 20)

Seq 51.18.5 M

Seq 51.20.8 M

2 of 3

;F020A.MAC

```

        .TITLE $DISAM
        .PSECT $DISAM
F020:
        . =      .+5116
        JMP      F020A
        . =      F020+5204
        MOVEB   #1,12(R1)
        NOP
        NOP

        .PSECT $F020
F020A:  MOV     4(R4),R0
        MOV     26(R0),R0
        DECB   24(R0)
        BGT    1$
        MOV     4(R4),R0
        MOVEB  #-1,12(R0)
        JSR    PC,F020+4010
        JMP    F020+5132
1$:     JMP    F020+5234
        .END
    
```

;F020B.MAC

```

        .TITLE $KISAM
        .PSECT $KISAM
F020:
        . =      .+5056
        JMP      F020A
        . =      F020+5144
        MOVEB   #1,12(R1)
        NOP
        NOP

        .PSECT $F020
F020A:  MOV     4(R4),R0
        MOV     26(R0),R0
        DECB   22(R0)
        BGT    1$
        MOV     4(R4),R0
        MOVEB  #-1,12(R0)
        JSR    PC,F020+3764
        JMP    F020+5072
1$:     JMP    F020+5174
        .END
    
```

CTS-300 V06  
for RT-11 V4.0  
TSD VB06-00D  
XMTSD VC06-00G  
(PATCH 20)

Seq 51.18.5 M

Seq 51.20.8 M

3 of 3

!P020V1.MAC

```
.TITLE DTD
.CSECT DTD

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

!P020V2.MAC

```
.TITLE $KDT0
.PSECT DATXX

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

.RENAME (DISAM,KISAM,DTD,KDT0).OBJ \*.OLD

Files renamed:

```
DK:DISAM.OBJ to DK:DISAM.OLD
DK:KISAM.OBJ to DK:KISAM.OLD
DK:DTD.OBJ to DK:DTD.OLD
DK:KDT0.OBJ to DK:KDT0.OLD
```

.MACRO P020A,P020B,P020V1,P020V2

```
ERRORS DETECTED: 0
ERRORS DETECTED: 0
ERRORS DETECTED: 0
ERRORS DETECTED: 0
```

.R PAT

\*DISAM.OBJ=DISAM.OLD/C:113542,P020A/C:025522

.R PAT

\*KISAM.OBJ=KISAM.OLD/C:141724,P020B/C:026234

.R PAT

\*DTD.OBJ=DTD.OLD/C:124544,P020V1/C:003244

.R PAT

\*KDT0.OBJ=KDT0.OLD/C:052562,P020V2/C:004715

.R CTSGEN ;FOR NORMAL TSD

.R CTSGEN ;FOR EXTENDED MEMORY TSD

CTS-300 V06  
for RT-11 V4.0  
TSD VB06-00E  
XMTSD VC06-00H  
(PATCH 24)

Seq 51.18.6 M

Seq 51.20.9 M

1 of 3

"SEND" STARTS MULTIPLE JOBS (LG)

The purpose of the DIBOL SEND statement is to transmit a message to another program. Under CTS-300, the optional third argument of the SEND statement indicates the terminal number to which the message will be sent, and can also be used to start a program detached if it is not already running. A single SEND statement in a program running under TSD or XMTSD may cause multiple copies of a job to be started detached.

Patch 24 corrects this so that only one copy of the job is started detached. The version number of TSD is changed to VB06-00F and XMTSD is changed to VC06-00I.

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

Corrections are made to the source module TSDTBL using the SLP (Source Language Patch) program. Please note that the last record in the file P024A.PAT is "/". You must terminate each line in that file with a carriage return, including the last line "/".

CTS-300 V06  
for RT-11 V4.0  
TSD VB06-00E  
XMTSD VC06-00H  
(PATCH 24)

Seq 51.18.6 M  
Seq 51.20.9 M  
2 of 3

;P024A.PAT

-1,1

-371,371

MRSW: .GLOBL MRSW  
.ZBLKW 1

-384

1\$: TST MRSW ;IS A JOB BEING STARTED?  
BEQ 11\$ ;NO  
JSR PC,\$SLEEP ;WAIT FOR JOB TO START  
BR 1\$ ;GO TRY AGAIN  
11\$: COM MRSW ;SET FLAG FOR JOB BEING STARTED  
-414  
CLR MRSW  
/

;P024B.MAC

.TITLE FRUNIT  
.PSECT \$FRNIT  
.GLOBL MRSW  
P024:  
. = .+142  
JSR PC,P024A  
P024A: .PSECT \$P024  
CLR P024+444  
CLR MRSW  
RTS PC  
.END

;P024C.MAC

.TITLE FRUNIT  
.PSECT \$FRNIT  
.GLOBL MRSW  
P024:  
. = .+140  
JSR PC,P024A  
P024A: .PSECT \$P024  
CLR P024+436  
CLR MRSW  
RTS PC  
.END

CTS-300 V06  
for RT-11 V4.0  
TSD VB06-00E  
XMTSD VC06-00H  
(PATCH 24)

Seq 51.18.6 M

Seq 51.20.9 M

3 of 3

!P024V1.MAC

```
.TITLE  DTO
.CSECT  DTO

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

!P024V2.MAC

```
.TITLE  $KDTO
.PSECT  DATXX

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

.RENAME TSDTBL.MAC,(KFRUN,FRUNIT,DTO,KDTO).OBJ \*.OLD

Files renamed:

```
DK:TSDTBL.MAC to DK:TSDTBL.OLD
DK:KFRUN.OBJ  to DK:KFRUN.OLD
DK:FRUNIT.OBJ to DK:FRUNIT.OLD
DK:DTO.OBJ    to DK:DTO.OLD
DK:KDTO.OBJ   to DK:KDTO.OLD
```

.R SLP

\*TSDTBL.MAC=TSDTBL.OLD,P024A.PAT

\*^C

.MACRO P024B,P024C,P024V1,P024V2

ERRORS DETECTED: 0

ERRORS DETECTED: 0

ERRORS DETECTED: 0

ERRORS DETECTED: 0

.R PAT

\*FRUNIT.OBJ=FRUNIT.OLD/C:102100,P024B/C:016167

.R PAT

\*KFRUN.OBJ=KFRUN.OLD/C:136577,P024C/C:016145

.R PAT

\*DTO.OBJ=DTO.OLD/C:125421,P024V1/C:003245

.R PAT

\*KDTO.OBJ=KDTO.OLD/C:053721,P024V2/C:004716

.R CTSGEN

!FOR NORMAL TSD

.R CTSGEN

!FOR EXTENDED MEMORY TSD

GAMMA-11 V3.0  
FGAMMA

Seq 54.1.4 M  
1 of 1

SYSTEM MAY HANG WHEN DISK SQUEEZED (JB)

There is an error in the foreground program which causes the system to hang when the disk is squeezed using the BGAMMA option DELETE immediately after performing a Gated acquisition in the foreground.

To correct this problem apply the following patch to a copy of the distribution disk.

DO NOT PATCH THE DISTRIBUTION DISK

User input is shown in bold type.

<CR> denotes the carriage return key.

<LF> denotes the line feed key.

1. **.COPY FGAMMA.REL FGAMMA.001 <CR>**
2. **.R PATCH <CR>**

FILE NAME --

```
*FGAMMA.001/O/C<CR>
*6:15546/      11211      4767<LF>
6:15550/      14241      142<CR>
*6:15714/           0      5046<LF>
6:15716/           0      13746<LF>
6:15720         0         54<LF>
6:15722         0      62716<LF>
6:15724         0      360<LF>
6:15726         0      4736<LF>
6:15730         0      11211<LF>
6:15732         0      14241<LF>
6:15734         0       207<CR>
*E
```

Checksum? **71531<CR>**

If the error message:

?PATCH-I-Checksum error

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

3. **.COPY FGAMMA.001 FGAMMA.REL<CR>**
4. Configure the GAMMA-11 system disk (refer to the GAMMA-11 SYSTEM REFERENCE MANUAL).



RT-11 V4.0  
CUMULATIVE INDEX  
OCTOBER 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			
<b>MONITOR PATCHES</b>			
ISSUING .SETOP #-2 AND .EXIT UNDER XM MONITOR MAY CORRUPT SYSTEM DISK	A	1.1.1 M	Jul 80
IMPLEMENTING INTERNAL HANDLER QUEUEING IN FB AND XM MONITORS	A	1.1.2 M	Jul 80
ADDING HIGH SPEED RING BUFFER SUPPORT	A	1.1.3 M	Jul 80
CORRUPTION OF CSI TEXT UNDER XM MONITOR	A	1.1.4 M	Jul 80
MISSING COLON IN BOOT XX CAUSES SYSTEM HALT	A	1.1.5 M	Jul 80
TYPING ^U WHILE IN A ^X SEQUENCE UNDER A SYSTEM JOB	A	1.1.6 M	Sep 80
ABNORMAL TERMINATION OF FG JOB WHICH IS USING CSI	A	1.1.7 M	Nov 80
MISCELLANEOUS MRRT-11 BUGS	A	1.1.8 M	Nov 80
MRRT-11 MINIMAL FILE SUPPORT PROBLEM	A	1.1.9 M	Nov 80
INCORRECT LIMIT CHECKS ON PRIVILEGED BACKGROUND JOBS USING VIRTUAL OVERLAYS	A	1.1.10 M	Nov 80
MULTI-TERMINAL MONITORS DON'T ALWAYS PROCESS CTRL/F PROPERLY	A	1.1.11 M	Nov 80
MONITOR CHANGES AND CORRECTIONS	A	1.1.12 M	Dec 80
MONITOR CORRECTIONS	B	1.1.13 M	Jan 81
MONITOR UPDATES	B	1.1.14 M	Feb 81
ABORT I/O IN PROGRESS HANDLER BIT	B	1.1.15 M	Apr 81
CORRECTIONS FOR DISTRIBUTED AND SYSTEM GENERATED MONITORS		1.1.16 M	Jun 81
PRINT COMMAND RESTRICTION		1.1.17 R	Jul 81
UPDATES TO MONITOR FILES		1.1.18 M	Oct 81
<b>DEVICE HANDLER SOURCES</b>			
<b>DEVICE HANDLER NOTES</b>			
RLO2s 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>
<b>DD.MAC</b> DD PRIMARY BOOTSTRAP PROBLEM	A	6.4.1 M	Jul 80
<b>DL.MAC</b> 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
<b>DM.MAC</b> ERRORS IN DM OFFSET POSITIONING AND ERROR LOGGING	A	6.6.1 M	Jul 80
<b>DY.MAC</b> DELETED DATA MARK MAY BE LOST IF BUFFER STARTS ON PAR BOUNDARY		6.11.1 M	Aug 81
<b>LP.MAC</b> LP SET NOHANG MAY CRASH SYSTEM	A	6.12.1 M	Sep 80
<b>LS.MAC</b> 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 RACE CONDITION IN LS HANDLER	A B	6.13.1 M 6.13.2 M 6.13.3 N 6.13.4 M 6.13.5 M	Sep 80 Jan 81 Jul 81 Jul 81 Aug 81
<b>PD.MAC</b> CORRECTION TO PDT ERROR LOGGING SUPPORT	B	6.16.1 M	Apr 81
<b>MAG TAPE HANDLERS</b> 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
<b>SYSTEM UTILITIES</b> <b>PIP.SAV</b> 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 /POSITION:N SWITCH FOR MAGTAPE INPUT WORKS INCORRECTLY	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 7.1.7 M	Sep 80 Sep 80 Feb 81 Apr 81 Jun 81 Jul 81 Oct 81
<b>DUP.SAV</b> 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 /V WITH NO DEVICE SPECIFICATION GIVES WRONG ERROR MESSAGE OUTPUT ERROR DURING COPY/DEVICE TO MAGTAPE CAUSES SYSTEM ERROR	A A A 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 7.2.10 M 7.2.11 M	Jul 80 Aug 80 Dec 80 Jan 81 Jan 81 May 81 May 81 Jun 81 Jul 81 Sep 81 Oct 81
<b>DIR.SAV</b> DIR/OUT COMMAND PRODUCES DEVICE NOT ACTIVE MESSAGE DIR/VOL GIVES ?MON-F-TRAP TO 4 LOSS OF LAST PRINT CHARACTER IN DIRECTORY LISTING	A A	7.3.1 M 7.3.2 M 7.3.3 M	Jul 80 Dec 80 Sep 81
<b>RESORC.SAV</b> RESORC MAY REPORT INCORRECT JOB NAMES ON A SHOW JOBS COMMAND ADD CIS DETECTION CAPABILITY TO RESORC PROBLEM WITH IDENTIFYING 11/23 PROCESSOR	A B	7.5.1 M 7.5.2 M 7.5.3 M	Aug 80 May 81 Sep 81

<u>COMPONENT</u>	<u>AUTOPATCH KIT</u>	<u>SEQUENCE</u>	<u>MON/YR</u>
<u>LINK.SAV</u>			
LINK BYTE RELOCATION AND DIRECTORY SIZE	A	7.9.1 M	Jul 80
LINK MAP PROCESSING ERROR	A	7.9.2 M	Aug 80
LINK MAP ERROR AND MULTIPLE DEFINITION LIBRARIES	A	7.9.3 M	Oct 80
RT-11 V4 LINKER RESTRICTION	B	7.9.4 R	Jan 81
LINK TRANSFER ADDRESS CALCULATION BUGS	B	7.9.5 M	Mar 81
LINK ADDITIONS AND CORRECTIONS		7.9.6 M	Aug 81
<u>LIBR.SAV</u>			
A LIBR COMMAND WITH NO FILE-SPEC CAN CAUSE A SYSTEM CRASH	A	7.10.1 M	Jul 80
LIBR ERRORS		7.10.2 M	Jul 81
LIBR CORRUPTS FORM LIBRARY DIRECTORY		7.10.3 M	Jun 81
<u>FILEX.SAV</u>			
FILEX WILDCARD TRANSFERS CAUSE MONITOR TRAP	A	7.11.1 M	Aug 80
FILEX CREATES ZERO FILLED INTERCHANGE RECORDS	A	7.11.2 M	Sep 80
SIZE CALCULATION PROBLEM IN FILEX		7.11.3 M	Aug 81
RECORDS DROPPED BY FILEX		7.11.4 M	Sep 81
<u>SRCCOM.SAV</u>			
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
<u>BINCOM.SAV</u>			
BINCOM GENERATES ERRONEOUS ERROR MESSAGE	B	7.13.1 M	Apr 81
ERRONEOUS DOUBLE PRECISION CALCULATION IN BINCOM		7.13.2 M	Jun 81
<u>DUMP.SAV</u>			
BLOCK NUMBERS OUTPUT FROM DUMP		7.14.1 M	Aug 81
<u>SLP.SAV</u>			
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
<u>SIPP.SAV</u>			
CORRUPTION OF MULTI-BLOCK LOG FILES	A	7.16.1 M	Jul 80
<u>PAT.SAV</u>			
USE OF THE PAT UTILITY WITH RT-11 V3B PATCHES		7.17.1 M+	Mar 80
<u>HELP.SAV</u>			
PROBLEMS WITH HELP UTILITY	A	7.19.1 M	Nov 80
<u>EDIT.SAV</u>			
EDIT MISHANDLES OUTPUT FILE FULL ERROR	B	7.20.1 M	Jan 81
<u>SYSTEM SUBROUTINE LIBRARY (SYSLIB)</u>			
<u>SYSLIB.OBJ</u>			
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>			
<u>RT-11 SYSTEM RELEASE NOTES</u>			
RT-11 V4.0 DOCUMENTATION CORRECTIONS AND ADDITIONS		11.2.1 N	Jul 80
DOCUMENTATION CORRECTIONS		11.2.2 N	Aug 80
CHANGES TO DUP /I OPTION		11.2.3 N	Apr 81
INCORRECT DUP CUSTOMIZATION PATCHES		11.2.4 N	Sep 81

<u>COMPONENT</u>	<u>AUTOPATCH KIT</u>	<u>SEQUENCE</u>	<u>MON/YR</u>
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
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
PIP ERROR MESSAGES MISSING		11.6.4 N	Oct 81
RT-11 POCKET GUIDE			
RT-11 V4.0 DOCUMENTATION CORRECTIONS AND ADDITIONS		11.7.1 N	Jul 80
RT-11 PROGRAMMER'S REFERENCE MANUAL			
DOCUMENTATION CORRECTIONS		11.8.1 N	Sep 80
INCORRECT PROGRAMMED REQUEST EXAMPLES		11.8.2 N	Mar 81
RT-11 SOFTWARE SUPPORT MANUAL			
RT-11 V4.0 DOCUMENTATION CORRECTIONS AND ADDITIONS		11.9.1 N	Jul 80
SOFTWARE SUPPORT MANUAL CORRECTION		11.9.2 N	Jun 81
ERROR IN DESCRIPTION OF .DRSET MACRO		11.9.3 N	Sep 81
<u>DEBUGGING UTILITIES</u>			
<u>VDT.OBJ</u>			
NOTES ON USING ODT OR VDT IN AN XM ENVIRONMENT		12.2.1 N	Jan 81
<u>BATCH PACKAGE</u>			
<u>BATCH.SAV</u>			
PATCH BATCH TO USE MONITOR SUFFIX	A	15.1.1 M	Oct 80
<u>SPOOLING PACKAGE</u>			
<u>QUEUE.REL</u>			
SUPERFLUOUS LINEFEED FROM QUEUE	B	16.1.1 M	Mar 81
NARROW BANNER PAGES FROM QUEUE		16.1.2 F	May 81
/R FOLLOWING /S IF NO OUPUT QUEUED MAY CAUSE FATAL ERROR IN QUEUE		16.1.3 M	Aug 81
<u>QUEMAN.SAV</u>			
PROBLEMS WITH QUEMAN	B	16.2.1 M	Jan 81
<u>KEYPAD EDITOR</u>			
<u>KED</u>			
MAKE TERMINAL SETUP OPTIONAL IF MTATCH FAILS	A	17.1.1 F	Aug 80
PROVIDE A .CHAIN INTERFACE FOR KED	A	17.1.2 F	Aug 80
PROVIDE REASONABLE ACTIONS AND ERROR MESSAGES WHEN DEALING WITH DEGENERATE FILES	A	17.1.3 M	Oct 80
SEARCH FAILS IF TARGET IF FIRST OR LAST STRING IN THE FILE	A	17.1.4 M	Nov 80
KNOWN ERRORS AND RESTRICTIONS		17.1.5 R	Dec 80
"SET SEARCH EXACT JUNK" COMMAND CRASHES KED		17.1.6 M	Jul 81
REPEATED USE OF THE "APPEND" FUNCTION CRASHES KED		17.1.7 M	Jul 81
DISABLE REVERSE VIDEO DISPLAY BY KED		17.1.8 F	Jul 81
FILE SAMPLE.KED OMITTED FROM DISTRIBUTION		17.1.9 N	Aug 81

<u>COMPONENT</u>	<u>AUTOPATCH KIT</u>	<u>SEQUENCE</u>	<u>MON/YR</u>
<b>K52</b>			
MAKE TERMINAL SETUP OPTIONAL IF MTATCH FAILS	A	17.2.1 F	Aug 80
PROVIDE A .CHAIN INTERFACE FOR K52	A	17.2.2 F	Aug 80
PROVIDE REASONABLE ACTIONS AND ERROR MESSAGES WHEN DEALING WITH DEGENERATE FILES	A	17.2.3 M	Oct 80
SEARCH FAILS IF TARGET IS FIRST OR LAST STRING IN THE FILE	A	17.2.4 M	Nov 80
KNOWN ERRORS AND RESTRICTIONS		17.2.5 R	Dec 80
"SET SEARCH EXACT JUNK" COMMAND CRASHES K52		17.2.6 M	Jul 81
REPEATED USE OF THE "APPEND" FUNCTION CRASHES K52		17.2.7 M	Jul 81
NO EQUIVALENT PATCH FOR K52 FOR SEQ 17.1.8		17.2.8 N	Aug 81
FILE SAMPLE.KED OMITTED FROM DISTRIBUTION		17.2.9 N	Aug 81
<b><u>AUTOMATED PATCHING FACILITY PACKAGE</u></b>			
<b><u>PACKAGE NOTES</u></b>			
AUTOPATCH SERVICE FOR RT-11		19.1.1 N	Jun 81
<b>FMS-11/RT-11 V1.1</b>			
ANNOUNCING FMS-11/RT-11 V1.1		33.1 N	Aug 80
FRED V1.1			
ZERO IMPURE AREA SIZE PROBLEM		33.3.1 M	Sep 81
<b>BASIC-11/RT-11 V2.0</b>			
<b>INTERPRETER</b>			
REPUBLICATIION 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
RETRACTED		35.1.19 M	May 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
<b>UTILITIES</b>			
CONVERSION PROGRAM		35.2.1 M+	Mar 80
BASIC-11/RT-11 V2 CONVERSION PROGRAM PATCH 1		35.2.2 M+	Mar 80
<b>DOCUMENTATION</b>			
OVERLAYING WHILE IN A SUBROUTINE		35.3.1 R+	Mar 80
OPERATION OF CTRLC, RCTRLC AND SYS(6) FUNCTIONS AND THE CTRL/C COMMAND		35.3.2 N+	Mar 80
OPERATION OF OLD, RUN, CHAIN, AND OVERLAY WHEN THE SPECIFIED FILE IS NOT FOUND		35.3.3 N+	Mar 80
CREATING AND ACCESSING VIRTUAL ARRAY FILES		35.3.4 N+	Mar 80
STORAGE OF THE NULL CHARACTER IN STRING VARIABLES AND VIRTUAL STRING ARRAYS		35.3.5 N+	Mar 80
USE OF COMPILE COMMAND		35.3.6 N+	Mar 80
STRING MANIPULATION IN ASSEMBLY LANGUAGE ROUTINES		35.3.7 N+	Mar 80
MAXIMUM ARRAY SUBSCRIPT SIZE		35.3.8 N+	Mar 80
NEW MANUAL AVAILABLE FOR BASIC-11/RT-11		35.3.9 N	May 81

COMPONENTAUTOPATCH KITSEQUENCEMON/YR

## MU BASIC-11/RT-11 V2.0

## INTERPRETER

CHAINING WITH COMMON - PATCH A	36.1.1 M+	Mar 80
VIRTUAL FILE I/O - PATCH B	36.1.2 M+	Mar 80
SYS(1,n) FUNCTION - PATCH C	36.1.3 M+	Mar 80
RESEQ - PATCH D	36.1.4 M+	Mar 80
VALUES IN PATCHES A, B, C	36.1.5 N+	Mar 80
LISTNH / OLD - PATCH E	36.1.6 M+	Mar 80
CALL - PATCH F	36.1.7 M+	Mar 80
DOUBLE PRECISION INTEGER VARIABLES - PATCH G	36.1.8 M+	Mar 80
INPUT #/PRINT # - PATCH H	36.1.9 M+	Mar 80
OLD OF A ZERO BLOCK FILE - PATCH I	36.1.10 M+	Mar 80
ADDITION TO PATCH B - PATCH J	36.1.11 M+	Mar 80
DEVICE MNEMONIC PROBLEM - PATCH K	36.1.12 M+	Mar 80
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