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THE
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DISPATCH

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RT-11 SOFTWARE DISPATCH

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The RT-11 Software Dispatch complements the RT-11 Software Dispatch Review. New and revised Software Product Descriptions, programming notes, software problems and solutions, and documentation corrections are published here. Much of the material is developed from Software Performance Report (SPR) answers significant to the general audience and is printed here to supplement the maintenance notebook (established by the Software Dispatch Review).

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

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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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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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UPDATES TO MONITOR FILES (JM)

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

FB distributed monitor:

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

System generated monitors:

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

The system hangs when booting on a system containing DIBOL Instruction Set support (subset of LSI-11 Commercial Instruction Set). When the bootstrap executes the CIS instruction to determine the 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.

```
RUN 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

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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>
```

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$T
XMREL::<tab>MOV<tab>MEMSIZ,$XMSIZ(R4)
<tab>MOV<tab>#$XMPTR,R1
<tab>ADD<tab>R4,R1
<tab>MOV<tab>R1,DECNET(R4)
<tab>MOV<tab>#RMSTAK,R1
<tab>ADD<tab>R4,R1
<tab>RETURN
.ENDC
/
```

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

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

Seq 1.1.18 M

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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$!TTSPC$!TTL$,@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 repaet the relevant assembly and link steps. Be sure to use the correct version of SYCND.MAC and to relink with the correct OBJ files.
- 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) V04.000.
- 11. Preserve the patched source files. If there are any future corrections, you will be required to apply them to the patched source files.

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

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

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

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

2. This patch is installed using SIPP, the Save Image Patching Program. First, ensure that a copy of the file DUP.SAV is on a mounted volume. Create the file, DUP.009 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
111
^Z                               (up-arrow/Z)
11750
2001
^Y                               (up-arrow/Y)
17304
^C                               (CTRL/C to exit)
```

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

```
@DUP.009
```

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

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

LOSS OF LAST PRINT CHARACTER IN DIRECTORY LISTING (LB)

When DIR prints a directory that is one character more than a full 512 word block, the last character, a CR, is lost. When this directory is followed by another directory on a printer set at NOFORM0, the following results:

- a. For a line printer, the first line of the second directory is concatenated onto the last line of the first directory.
 - b. For a serial line printer, the first line of the second directory overwrites the last line of the first directory.
1. The following is a required patch to the DIR.SAV utility program. It must be installed in all copies of the utility.

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

2. This patch is installed using SIPP, the Save Image Patching Program. First, ensure that a copy of the file DIR.SAV is on a mounted volume. Create the file, DIR.003 as follows. Replace 'DK:' in the patch below with the name of the device that contains the program file.

```

R SIPP
DK:DIR.SAV/A/C
0
1054
103
^Z                               (up-arrow/Z)
16112
1000
^Y                               (up-arrow/Y)
055600
^C                               (CTRL/C to exit)

```

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

@DIR.003

The resulting version of the utility will be DIR V04.00C.

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

PROBLEM WITH IDENTIFYING 11/23 PROCESSOR (LCP)

RESORC incorrectly identifies 11/23 processors which:

1. do not have BDV11 modules but rather derive the Line Time Clock signal from an MXV11 (displays "Unkown Processor").
2. have KPV11 or KVV11 modules used as the system clock (displays "PDP 11/24 Processor").

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

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

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

2. This patch is installed using SIPP, the Save Image Patching Program. First, ensure that a copy of the file RESORC.SAV is on a mounted volume. Create the file, RESORC.003 as follows. Replace 'DK:' in the patch below with the name of the device that contains the program file.

```

RUN SIPP
DK:RESORC.SAV/C
0
2656
103
^Z          (up-arrow/Z)
4706
26063
32062
200
^Z          (up-arrow/Z)
5176
4676
^Z          (up-arrow/Z)
15560
60100
207
^Y          (up-arrow/Y)
26716
^C          (CTRL/C to exit)

```

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

@RESORC.003

The resulting version of the utility will be RESORC V04.0C.

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

Seq 7.11.4 M

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RECORDS DROPPED BY FILEX (MG)

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

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

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

2. This patch is installed using SIPP, the Save Image Patching Program. First, ensure that a copy of the file FILEX.SAV is on a mounted volume. Create the file, FILEX.004 as follows. Replace 'DK:' in the patch below with the name of the device that contains the program file.

```

R SIPP
DK:FILEX.SAV/A/C
0
50
21746
^Z                               (up-arrow/Z)
2674
106
^Z                               (up-arrow/Z)
3752
21750
^Z                               (up-arrow/Z)
17656
4767
2052
^Z                               (up-arrow/Z)
21734
5767
160344
1002
105767
160401
207
^Y                               (up-arrow/Y)
117032
^C                               (CTRL/C to exit)

```

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

@FILEX.004

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

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

INCORRECT DUP CUSTOMIZATION PATCHES (MS)

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

Patch A

.R SIPP
*DUP.SAV
Segment? 1
Base? 30
Offset? 10243

Segment	Base	Offset	Old	New?
000001	000030	010243	000	377
000001	000030	010244	000	^Z
Offset?	^Z			
Base?	^Z			
Segment?	10			
Base?	10052			
Offset	466			

Segment	Base	Offset	Old	New?
000010	010052	000466	000000	377
000010	010052	000470	000000	n
000010	010052	000472	000000	^Z
Offset?	^Y			
*^C				

RT-11 V4.0
 Documentation
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Patch B

.R SIPP
 *DUP.SAV
 Segment? 1
 Base? 30
 Offset? 10252

Segment	Base	Offset	Old	New?
000001	000030	010252	000000	\

Segment	Base	Offset	Old	New?
000001	000030	010252	000	377
000001	000030	010253	000	^Z

Offset? ^Z
 Base? ^Z
 Segment? 10
 Base? 10052
 Offset? 466

Segment	Base	Offset	Old	New
000010	010052	000466	000000	377
000010	010052	000470	000000	r
000010	010052	000472	000000	^Z

Offset? ^Y
 *^C

ERROR IN DESCRIPTION OF .DRSET MACRO (LCP)

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

'mode' is an optional argument to indicate the type of SET parameter. Enter NO to indicate that a NO prefix is valid for the option. Enter NUM if a decimal value is required. Enter OCT if an octal value is required. Omitting the 'mode' argument indicates that the option takes neither a NO prefix nor a numeric argument. You can combine the NO and numeric arguments as follows. The construction <NO,NUM> indicates that both a NO prefix and a decimal value are valid. The construction <NO,OCT> indicates that both a NO prefix and an octal value are valid. Omitting the mode argument forces a 0 into the high byte of the last word of the table entry.

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

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

Seq 33.3.1 M

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ZERO IMPURE AREA SIZE PROBLEM (CW)

PROBLEM STATEMENT:

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

RESPONSE:

The following mandatory patch corrects the problem.

Patch to FRED V01.01:

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

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

Offset? 000070620<RET>

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

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

Seq 33.3.1 M

2 of 2

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

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

Checksum? 100056<RET>

*^C

The resultant version is FRED V1.01A.

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

RT-11 Software Dispatch, September 1981

APL-11 V2.0
for RT-11 V4.0
Package Notes

Seq 38.1.1 N

1 of 1

APL IS AVAILABLE IN THE DECUS LIBRARY (JP)

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

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

PROBLEM:

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

SOLUTION:

1. Type in the following MACRO files: PAT12.MAC, FIXVER.C03

PAT12.MAC:

```
                .TITLE  F10A
                .IDENT  /010/
                .PSECT  F10ACB
S=.
.=S+6502
                JMP     RLYSAM
                NOP
.=S+6510
TOLOOP:
.=S+6514
                BIC     #^C<170000>,@SP
.=S+6522
                BIC     #^C<170000>,@SP
                .PSECT  PAT10A,I
RLYSAM:
                MOV     @R1,PTR1
                MOV     @R3,PTR2
                BIC     #^C<700>,PTR1
                BIC     #^C<700>,PTR2
                CMP     PTR1,PTR2
                BEQ     CON1
                JMP     TOLOOP
CON1:
                BIT     #100,@R1
                BNE     TOCHAN
                CMP     -2(R1),-2(R3)
                JMP     TOLOOP
TOCHAN:
                CMP     -2(R1),-2(R3)
                BEQ     CON2
                JMP     TOLOOP
CON2:
```

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

Seq 45.1.4 M

2 of 3

```

        MOV     R0,-(SP)
        MOV     R1,R0
        JSR     PC,TST
        MOV     R0,PTR1
        MOV     R3,R0
        JSR     PC,TST
        MOV     R0,PTR2
        MOV     (SP)+,R0
        CMP     PTR1,PTR2
        BEQ     FIN
        JMP     TOLOOP
FIN:    CMP     -2(R1),-2(R3)
        JMP     TOLOOP
TST:    TST     -(SP)
SRC:    MOV     @R0,@SP
        BIC     #^C<7000>,@SP
        CMP     #6000,@SP
        BNE     TRVCHN
        TST     (SP)+
        RTS     PC
TRVCHN: MOV     -4(R0),R0
        BR      SRC
PTR1:   .WORD
PTR2:   .WORD
        .END
    
```

FIXVER.C03:

```

        .TITLE  FROOT
        .IDENT  /010/
        .PSECT  ROOT
        .=.+370
        .ASCII  /5-3/
        .END
    
```

2. Assemble the patches using MACRO-11

```

.R MACRO
*PAT12=PAT12
*FIXVER=FIXVER.C03
*^C
    
```

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

Seq 45.1.4 M
3 of 3

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

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

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

4. Rebuild the compiler using the procedure described in the FORTRAN IV Installation Guide.
5. Test the patches by creating and compiling the following FORTRAN program.

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

Which should produce the following results:

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

```
10    20    30    40
10    20    30    40
```

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

Seq 45.2.10 M

1 of 3

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

PROBLEM:

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

SOLUTION:

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

PAT13.MAC:

```
        .TITLE  $DSIN
        .IDENT  /003/
        .PSECT  OTSSI
                F0=%0
                F2=%2
S=.
.=S+102      JMP      SMLARG
RET:
.=S+126      JMP      FRCINT
                NOP
RTN:
.=S+152
DPIOV2:
.=S+302
SMLARG:
        LDD     F0,F2
        TST     R4
        BEQ     10$
        NEGD    F0
10$:        ABSD    F2
        CMPD    #^0031200,F2
        CFCC
        BGE     SMALL
        MULD    F2,F2
        JMP     RET
SMALL:
        MULD    DPIOV2,F0
```

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

Seq 45.2.10 M
2 of 3

```

          JMP      RTN
FRCINT:
          CFCC
          BLT      LTZERO
          CMPD     #1.0,F0
          CFCC
          BLT      10$
          JMP      RTN
10$:     LDD      #1.0,F0
          JMP      RTN
LTZERO:
          CMPD     #-1.0,F0
          CFCC
          BGT      10$
          JMP      RTN
10$:     LDD      #-1.0,F0
          JMP      RTN
          .END

```

2. Assemble the patch using MACRO-11

```

.R MACRO
*PAT13=PAT13
*^C

```

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

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

```

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

```

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

```

REAL* 8 X,Y
DO 20 I=13,14
X=0.1**(I)
Y=DSIN(X)

```

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

Seq 45.2.10 M

3 of 3

```
1      WRITE(5,1) X,Y
20     FORMAT(3X,'DSIN(',E20.12) = ',E20.12)
      CONTINUE
      END
```

Which should produce the following results:

```
      DSIN( 0.1000000038903E-12) = 0.1000000038903E-12
      DSIN( 0.1000000049067E-13) = 0.1000000049067E-13
STOP --
```

RT-11 Software Dispatch, September 1981

CTS-300 V06
for RT-11 V4.0
TSD VB06-00C
XMTSD VC06-00F
(PATCH 19)

Seq 51.18.04 M
Seq 51.20.07 M

1 of 3

CORRECTION TO TSD/XMTSD

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

SET LP: NOHANG is in effect

multi-volume files disabled with XCALL FLAGS

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

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

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

CTS-300 V06
for RT-11 V4.0
TSD VB06-00C
XMTSD VC06-00F
(PATCH 19)

Seq 51.18.04 M
Seq 51.20.07 M

2 of 3

#P019A.MAC

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

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

#P019B.MAC

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

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

#P019V1.MAC

```
.TITLE DTO
.CSECT DTO

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

#P019V2.MAC

```
.TITLE $KDTO
.PSECT DATXX

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

CTS-300 V06
for RT-11 V4.0
TSD VB06-00C
XMTSD VC06-00F
(PATCH 19)

Seq 51.18.04 M
Seq 51.20.07 M

3 of 3

.RENAME (DIO,KDIO,DTO,KDIO).OBJ *.OLD

Files renamed:

DK:DIO.OBJ to DK:DIO.OLD
DK:KDIO.OBJ to DK:KDIO.OLD
DK:DTO.OBJ to DK:DTO.OLD
DK:KDIO.OBJ to DK:KDIO.OLD

.MACRO P019A,P019B,P019V1,P019V2

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

.R PAT

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

.R PAT

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

.R PAT

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

.R PAT

*KDIO.OBJ=KDIO.OLD/C:051424,P019V2/C:004714

.R CTSGEN #FOR TSD

.R CTSGEN #FOR EXTENDED MEMORY TSD

RT-11 Software Dispatch, September 1981

CTS-300 V06
for RT-11 V4.0
XMTSD VC06-00E
(PATCH 18)

Seq 51.20.06 M

1 of 3

XMTSD HANGS WHEN LP IS OFF-LINE

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

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

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

CTS-300 V06
 for RT-11 V4.0
 XMTSD VC06-00E
 (PATCH 18)

Seq 51.20.06 M

2 of 3

#P018.MAC

```

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

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

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

```

CTS-300 V06
for RT-11 V4.0
XMTSD VC06-00E

Seq 51.20.06 M

3 of 3

!P018V1.MAC

.TITLE \$KDTO
.PSECT DATXX

. = .+42
.BYTE 'F'
.END

.RENAME KCORE.OBJ,KDTO.OBJ *.OLD

Files renamed:

DK:KCORE.OBJ to DK:KCORE.OLD

DK:KDTO.OBJ to DK:KDTO.OLD

.MACRO P018,P018V1

ERRORS DETECTED: 0

ERRORS DETECTED: 0

.R PAT

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

.R PAT

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

.R CTSGEN

!FOR EXTENDED MEMORY TSD

GAMMA-11 V3.0
BGAMMA
DATANL

Seq 54.1.3 M
1 of 1

ISOMETRIC DISPLAY IMAGES USE INCORRECT INTENSITY LEVELS (JB)

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

User input is indicated by bold type.

<CR> denote the carriage return key.

1. **.COPY DATANL.SAV DATANL.001<CR>**

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

FILENAME --

***DATANL.001/O/C<CR>**

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

***E**

Checksum? **42405<CR>**

If the error message:

?PATCH-I-Checksum error

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

3. **.COPY DATANL.001 DATANL.SAV**

RT-11 V4.0
CUMULATIVE INDEX
SEPTEMBER 1981

This is a complete listing of all articles for RT-11 V4.0 and related products. In the case of subordinate software, missing sequence numbers may pertain to problems unique to interaction with previous versions of the same product or other major operating systems.

IMPORTANT!

Unassigned articles are indicated: UNASSIGNED.

Flags are currently being installed for all articles. The flags and definitions are as follows:

M = Mandatory Patch. These patches correct errors in the software product. All users are required to apply these patches to maintain consistent "user level" unless the accompanying article specifies otherwise.

F = Optional Feature Patch. These patches extend or configure functionality into the product. These functions will be treated as a supported part of the product for the duration of the current release and will be incorporated with any future release, unless otherwise stated.

R = Restriction. These articles discuss areas that will not be patched in the current release because they require major modification or because they are not consistent with the design of the product. Restrictions, except those described as permanent, are reviewed and modified when possible as part of the normal release cycle.

N = NOTE. These articles provide explanatory information that supplements the manual set and provide more detailed information about a program or package. They also provide procedural information to make it easier to use a program or package.

+ = Articles appeared in the RT-11 Software Dispatch Review, March 1980.

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

<u>Component</u>	<u>Autopatch Kit</u>	<u>Sequence</u>	<u>Mon/Yr</u>
RT-11 V4.0			
<u>MONITOR PATCHES</u>			
ISSUING .SETTOP #-2 AND .EXIT UNDER XM MONITOR MAY CORRUPT SYSTEM DISK	A	1.1.1 M	Jul 80
IMPLEMENTING INTERNAL HANDLER QUEUEING IN FB AND XM MONITORS	A	1.1.2 M	Jul 80
ADDING HIGH SPEED RING BUFFER SUPPORT	A	1.1.3 M	Jul 80
CORRUPTION OF CSI TEXT UNDER XM MONITOR	A	1.1.4 M	Jul 80
MISSING COLON IN BOOT XX CAUSES SYSTEM HALT	A	1.1.5 M	Jul 80
TYPING ^U WHILE IN A ^X SEQUENCE UNDER A SYSTEM JOB	A	1.1.6 M	Sep 80
ABNORMAL TERMINATION OF FG JOB WHICH IS USING CSI	A	1.1.7 M	Nov 80
MISCELLANEOUS MRRT-11 BUGS	A	1.1.8 M	Nov 80
MRRT-11 MINIMAL FILE SUPPORT PROBLEM	A	1.1.9 M	Nov 80
INCORRECT LIMIT CHECKS ON PRIVILEGED BACKGROUND JOBS USING VIRTUAL OVERLAYS	A	1.1.10 M	Nov 80
MULTI-TERMINAL MONITORS DON'T ALWAYS PROCESS CTRL/F PROPERLY	A	1.1.11 M	Nov 80
MONITOR CHANGES AND CORRECTIONS	A	1.1.12 M	Dec 80
MONITOR CORRECTIONS	B	1.1.13 M	Jan 81
MONITOR UPDATES	B	1.1.14 M	Feb 81
ABORT I/O IN PROGRESS HANDLER BIT	B	1.1.15 M	Apr 81
CORRECTIONS FOR DISTRIBUTED AND SYSTEM GENERATED MONITORS		1.1.16 M	Jun 81
PRINT COMMAND RESTRICTION		1.1.17 R	Jul 81
UPDATES TO MONITOR FILES		1.1.18 M	Sep 81
<u>DEVICE HANDLER SOURCES</u>			
<u>DEVICE HANDLER NOTES</u>			
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
DY.MAC DELETED DATA MARK MAY BE LOST IF BUFFER STARTS ON PAR BOUNDARY		6.11.1 M	Aug 81
LP.MAC LP SET NOHANG MAY CRASH SYSTEM	A	6.12.1 M	Sep 80
LS.MAC LS SET NOHANG MAY CRASH SYSTEM 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
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
<u>SYSTEM UTILITIES</u>			
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 /V WITH NO DEVICE SPECIFICATION GIVES WRONG ERROR MESSAGE	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	Jul 80 Aug 80 Dec 80 Jan 81 Jan 81 May 81 May 81 Jun 81 Jul 81 Sep 81
DIR.SAV 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
RESORC.SAV 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 N+	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
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COMPONENTAUTOPATCH KITSEQUENCEMON/YR

MU BASIC-11/RT-11 V2.0

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