THE SOFTWARE DISPATCH

RT-11 SOFTWARE DISPATCH

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

PRODUCTS SUPPORTED in the RT-11 SOFTWARE DISPATCH

APL-11 V1	**FORTRAN/RT-11 Extensions V1B**	**PEAK-11 V2**
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Package V1.1		

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SPR USER LETTER

Submitted by Sheila Hatchell, 8/11 Administration

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

How to Make the Best Use of the SPR Form

What We Can Do for You:

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

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

3. STATUS FOR SUBMITTED SPRs IS PROVIDED UPON REQUEST.

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

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

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 For security SPRs, it is imperative that the DO NOT PUBLISH box be marked.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

NOTES ON .MFPS/.MTPS PROGRAMMED REQUEST (SPR 11-26274 LCP)

The notes on using a special technique to access the condition codes in the PS are in error. The following technique should be used to yield proper results:

It is possible to perform .MTPS and .MFPS operations and access the condition codes by using the following special technique:

1.   In the beginning of your program, set up the IOT trap vector
        as follows:

```
        .ASECT                  ;SET UP IOT
. = 2Ø
        .WORD   GETPS           ;IOT SERVICE ADDRESS IN 'MFPS' SUBROUTINE
        .WORD   34Ø             ; PRIORITY 7
```

2.   Elsewhere in your program place the following routines:

```
;+
; MFPS/MTPS ROUTINES ...
;-

MFPS:   IOT                     ;EXECUTE IOT
                                ;WILL RETURN TO CALLER W/ PS ON STACK

GETPS:  MOV     4(SP),@SP       ;PUT USER RETURN ON TOP
        MOV     2(SP),4(SP)     ;MOVE PS SAVED BY IOT
MTPS:   RTI                     ;WILL RETURN TO CALLER W/ NEW PS
```

3.   To get the PS or to set the PS to a desired value, use the
        following sequence of instructions:

```
;+
; TO GET PS ...
;-

        JSR     PC,MFPS         ;GET PS
                                ;CONTINUE, PS IS ON STACK ...


;+
; TO PUT PS ...
;-

        MOV     NEWPS,-(SP)     ;PUT DESIRED PS ON STACK ...
        JSR     PC,MTPS         ;CALL MTSP
```

3

RT-11 VØ3B-ØØ   Seq 32 M
MONITOR
SJ (S) VØ3B-ØØI   1 of 1
                                          Supersedes article dated Mar. 8Ø

SYSTEM GENERATED SJ MONITOR WITH ESCAPE SEQUENCE SUPPORT (JM)

The following article was submitted to the RT-11 Software Dispatch, March
198Ø with a typographical error in the RMONSJ.MAC patch. The $ in the
ninth line should have been <ESC>. The corrected version appears below.

A single job monitor generated with escape sequence support will not boot.
The escape sequence conditional code in RMONSJ.MAC causes a symbol (TTO2)
to be out of place. The result is that a wrong value is restored from the
stack.

The following source changes correct the problem in RT-11SJ (S) VØ3B-ØØI.

```
.R EDIT <RET>
*EBBSTRAP.MAC[69]<ESC>RV<ESC><ESC>
;BSTRAP EDIT LEVEL 23
*G3<ESC>=C4<ESC>V<ESC><ESC>
;BSTRAP EDIT LEVEL 24
*2FSJ<ESC>V<ESC><ESC>
        .ASCIZ   "SJ (S) VØ3B-Ø'...'I"
*GI<ESC>=CJ<ESC>V<ESC><ESC>
        .ASCIZ   "SJ (S) VØ3B-Ø'...'J"
*EX<ESC><ESC>


  .


.R EDIT <RET>
*EBRMONSJ.MAC[71]<ESC>RV<ESC><ESC>
;RMONSJ EDIT LEVEL 2
*G2<ESC>=C3<ESC>V<ESC><ESC>
;RMONSJ EDIT LEVEL 3
*FTTO2:<ESC>V<ESC><ESC>
TTO2:   TST     (PC)+
*I<RET>
<ESC>-ASK<ESC>-3AU-LL<ESC><ESC>
TTO2:
.IF     NE      ESC$P
*EX<ESC><ESC>


  .
```

After installing the above source patches, re-assembling, and re-linking
the resultant version will be RT-11SJ (S) VØ3B-ØØJ.

BREAKPOINT TRAP PROCESSOR STATUS WORD CORRUPTION (SPR 11-28Ø39 JM)

The breakpoint trap PSW (location 16) can be corrupted under an FB or XM multi-terminal monitor. This corruption occurs when changing the console terminal and no foreground job is loaded. There is no check for the absence of a foreground job when getting the TCB pointer.

The following source changes correct the problem in RT11-FB(S) VØ3B-ØØN and RT-11XM(S) VØ3B-ØØT.

```
.R EDIT <RET>
*EBBSTRAP.MAC[69]<ESC>RV<ESC><ESC>
;BSTRAP EDIT LEVEL 24
*G4<ESC>=C5<ESC>V<ESC><ESC>
;BSTRAP EDIT LEVEL 25
*F"FB<ESC>V<ESC><ESC>
        .ASCIZ  "FB (S)VØ3B-Ø'...'N"
*GN<ESC>=CO<ESC>V<ESC><ESC>
        .ASCIZ  "FB (S)VØ3B-Ø'...'O"
*G"XM<ESC>V<ESC><ESC>
        .ASCIZ  "XM (S)VØ3B-Ø'...'T"
*GT<ESC>=CU<ESC>V<ESC><ESC>
        .ASCIZ  "XM (S)VØ3B-Ø'...'U"
*EX<ESC><ESC>

.R EDIT <RET>
*EBKMOVLY.MAC[164]<ESC>RV<ESC><ESC>
;KMOVLY EDIT LEVEL Ø
*GØ<ESC>=C1<ESC>V<ESC><ESC>
;KMOVLY EDIT LEVEL 1
*FSET55$:<ESC>GFCNTXT-<ESC>AL<ESC><ESC>
        MOV     RØ,I.CNSL(R3)
*I      BEQ     5$ <RET>
<ESC>-2LL<ESC><ESC>
        MOV     FCNTXT-BKCNSL(R2),R3
        BEQ     5$
        MOV     RØ,I.CNSL(R3)
*EX<ESC><ESC>
```

.

After installing the above source patches, re-assembling, and re-linking the resultant versions will be RT-11FB(S) VØ3B-ØØO and RT-11XM(S) VØ3B-ØØU.

FSM DOES NOT PROCESS ERRORS CORRECTLY IN XM (SPR 11-26955 SD)

The following patches will correct XM error processing and abort entry
problems within the file-structured magtape handlers.

```
.R EDIT <RET>
*EBFSM.MAC<ESC>RV<ESC><ESC>
;FSM EDIT LEVEL 2.
*G2<ESC>-C3<ESC>V<ESC><ESC>
;FSM EDIT LEVEL 3.
*FERRR:<ESC>V<ESC><ESC>
ERRR:   TST     SEEKYN
*2AV<ESC><ESC>
        .IF     NE      MMG$T
*AV<ESC><ESC>
        JSR     PC,SYNCH
*I      CLR     RØ              ;2 <RET>
<ESC>-A2L<ESC><ESC>
        CLR     RØ              ;2
        JSR     PC,SYNCH
*FSYNCH:<ESC>V<ESC><ESC>
SYNCH:  MOV     RØ,TEMP
*GRTS<ESC>V<ESC><ESC>
        RTS     PC
*ØA<ESC>I       MOV     SEEKER,ERBSAV   ;2 <RET>
<ESC>-A2L<ESC><ESC>
        MOV     SEEKER,ERBSAV   ;2
        RTS     PC
*EX<ESC><ESC>
```

.

RT-11 VØ3B-ØØ
SOURCE
FSM.MAC
TJ.MAC
TM.MAC

Seq 13 M

2 of 2

```
.R EDIT <RET>
*EBTM.MAC<ESC>RV<ESC><ESC>
; TM EDIT LEVEL 3.
*G3<ESC>-C4<ESC>V<ESC><ESC>
; TM EDIT LEVEL 4.
*FMTABRT:<ESC>V<ESC><ESC>
MTABRT: MOV        #-1,FLAG            ;2+
*FDVTBL<ESC>V<ESC><ESC>
        MOV        DVTBL,RØ
*AV<ESC><ESC>
        MOV        #-1,(RØ)+
*I      BEQ        2Ø$                 ;4 <RET>
<ESC>-A2L<ESC><ESC>
        BEQ        2Ø$                 ;4
        MOV        #-1,(RØ)+
*3AV<ESC><ESC>
        MOV        (SP)+,RØ
*I2Ø$:<ESC>V<ESC><ESC>
2Ø$:    MOV        (SP)+,RØ
*EX<ESC><ESC>

    •


.R EDIT <RET>
*EBTJ.MAC<ESC>RV<ESC><ESC>
; TJ EDIT LEVEL 3.
*G3<ESC>-C4<ESC>V<ESC><ESC>
; TJ EDIT LEVEL 4.
*FMTABRT<ESC>V<ESC><ESC>
MTABRT: .IF        DF         FILES
*GDVTBL<ESC>V<ESC><ESC>
        MOV        DVTBL,RØ
*AV<ESC><ESC>
        MOV        #-1,(RØ)+
*I      BEQ        2Ø$                 ;4 <RET>
<ESC>-A2L<ESC><ESC>
        BEQ        2Ø$                 ;4
        MOV        #-1,(RØ)+
*3AV<ESC><ESC>
        MOV        (SP)+,RØ
*I2Ø$:<ESC>V<ESC><ESC>
2Ø$:    MOV        (SP)+,RØ
*EX<ESC><ESC>

    •
```

NOTE

The magtape handlers can only be generated as described in "Distributed
Magtape Handler Corrections (BD)", Seq 3M which was published in the RT-11
September 1978 Software Dispatch.

RLØ1/RLØ2 HANDLER CORRECTIONS (SPR 11-27397 LCP)

1. If an attempt is made to access an RLØ1 beyond the physical end
of the device, the drive returns an error but then becomes inaccessible
until a bus init is issued. Attempting to access beyond the physical
end of an RLØ2 causes no error but the cylinder/sector address "wraps
around" to the beginning of the device.

2. If the heads "wander" off track, the RL11 controller will drop
Drive Ready until the heads are repositioned. This can lead to the
sporadic and erroneous reporting of disk errors, especially during
bad block scans.

The following, mandatory source patch corrects both problems:

```
.R EDIT<RET>
*EBDL.MAC<ESC>RV<ESC><ESC>
;DL EDIT LEVEL 3
*G3<ESC>=C4<ESC>V<ESC><ESC>
;DL EDIT LEVEL 4
*F1$:<ESC>2AV<ESC><ESC>
        CMPB    Q.FUNC(R5),#DLSSIZ
*I      MOV     #DLDSIZ,(PC)+            ;4+ <RET>
DLVSIZ: .WORD   Ø <RET>
        MOV     #DL$CSR,R2 <RET>
        JSR     PC,DLGST <RET>
        BMI     1Ø1$ <RET>
        TSTB    RLMP(R2) <RET>
        BPL     1Ø1$ <RET>
        MOV     #DLDSI2,DLVSIZ <RET>
1Ø1$:<ESC><ESC>
*GSIZ<ESC>I      ;4-<ESC><ESC>
*-9A1ØL<ESC><ESC>
        MOV     RØ,DLCS
        MOV     #DLDSIZ,(PC)+           ;4+
DLVSIZ: .WORD   Ø
        MOV     #DL$CSR,R2
        JSR     PC,DLGST
        BMI     1Ø1$
        TSTB    RLMP(R2)
        BPL     1Ø1$
        MOV     #DLDSI2,DLVSIZ
1Ø1$:   CMPB    Q.FUNC(R5),#DLSSIZ      ;4-
*G3$:<ESC>1AV<ESC><ESC>
        CLR     R2
*I      BMI     DLER19                 ;4 <RET>
<ESC><ESC>
```

```
        *-2A3L<ESC><ESC>
        3$:     MOV     (R5)+,R3
                BMI     DLER19                  ;4
                CLR     R2
        *G4$:<ESC>3AV<ESC><ESC>
                SUB     R4,R3
        *I      BCS     DLER19                  ;4 <RET>
        <ESC><ESC>
        *-2A3L<ESC><ESC>
                ADD     #100,R2
                BCS     DLER19                  ;4
                SUB     R4,R3
        *GDLDA:<ESC>1AV<ESC><ESC>
        .IF NE  ERL$G
        *I      BPL     501$                    ;4+ <RET>
                CMP     DLVSIZ,#DLDSI2 <RET>
                BNE     DLER19 <RET>
        501$:                                   ;4- <RET>
        <ESC><ESC>
        *-5A6L<ESC><ESC>
        DLDA:   .WORD   Ø
                BPL     501$                    ;4+
                CMP     DLVSIZ,#DLDSI2
                BNE     DLER19
        501$:                                   ;4-
        .IF NE  ERL$G
        *GDLERR1:<ESC>1AV<ESC><ESC>
        DLERR2: MOV     #DLRCNT,DLRTY
        *IDLER19:       JMP     19$             ;4 <RET>
        <ESC><ESC>
        *-2A3L<ESC><ESC>
        DLERR1:JMP      DLERRH          ;Ø
        DLER19: JMP     19$             ;4
        DLERR2: MOV     #DLRCNT,DLRTY
        *F115$:<ESC>V<ESC><ESC>
        115$:   MOV     DLWCT,DLWC
        *ØA<ESC>I       BCS     19$             ;4+ <RET>
                BPL     115$ <RET>
                CMP     DLVSIZ,#DLDSI2 <RET>
                BNE     19$ <RET>
        <ESC><ESC>
        *2GWC<ESC>I     ;4-<ESC><ESC>
        *-5A6L<ESC><ESC>
                ADD     #100,DLDA       ;Ø-
                BCS     19$             ;4+
                BPL     115$
                CMP     DLVSIZ,#DLDSI2
                BNE     19$
        115$:   MOV     DLWCT,DLWC      ;4-
```

```
    *FDLERRH:<ESC>G#REV<ESC>ØAV<ESC><ESC>
            MOV        #REV,RLDA(R2)
    *I155$: INCB       DLREV              ;4<RET>
    <ESC><ESC>
    *-2A3L<ESC><ESC>
            BEQ        16$
    155$:   INCB       DLREV              ;4
            MOV        #REV,RLDA(R2)
    *2G18$<ESC>=C155$                     ;4<ESC>-1A2L<ESC><ESC>
            BIT        #DRDY,R1
            BEQ        155$               ;4
    *FDLGSIZ:<ESC>V<ESC><ESC>
    DLGSIZ: MOV        #DLDSIZ,RØ
    *I                                    ;4+ <RET>
    ;<ESC>A6<I;<ESC>A><ESC><ESC>
    *-AG:<ESC>I                           ;4-<ESC><ESC>
    *-7A9L<ESC><ESC>
    DLGSIZ:                               ;4+
    ;       MOV        #DLDSIZ,RØ
    ;       MOV        #DL$CSR,R2
    ;       CALL       DLRST
    ;       BIT        #DT,RLMP(R2)
    ;       BEQ        1$
    ;       MOV        #DLDSI2,RØ
    ;1$:                                  ;4-
    .IF NE  MMG$T
    *1ØAV<ESC><ESC>
            MOV        RØ,-(SP)
    *I;<ESC>G)<ESC>I                      ;4<ESC><ESC>
    *1AI    MOV        DLVSIZ,-(SP)            ;4 <RET>
    <ESC><ESC>
    *-2A3L<ESC><ESC>
    ;       MOV        RØ,-(SP)               ;4
            MOV        DLVSIZ,-(SP)           ;4
            CALL       @$PTWRD
    *4AI;<ESC>G)<ESC>I                    ;4<ESC><ESC>
    *1AI    MOV        DLVSIZ,@Q.BUFF(R5)     ;4 <RET>
    <ESC><ESC>
    *-2A3L<ESC><ESC>
    ;       MOV        RØ,@Q.BUFF(R5)         ;4
            MOV        DLVSIZ,@Q.BUFF(R5)     ;4
    .ENDC
    *EX<ESC><ESC>
    .
```


NOTE

There is no binary patch for this correction. The DL monitors and handlers can only be generated as described in the article "RLØ1 PATCH CLARIFICATION (CG)", sequence number 7n, which was published in the January, 1979 RT-11 Software Dispatch.

BATCH INCORRECTLY LOGS TERMINAL OUTPUT (SPR 11-22424 MG)

The BATCH directives TTYIN, which specifies that BATCH is to log only
terminal input, and NOTTY, which specifies that BATCH is not to log
anything, are not correctly processed by the BATCH handler. The following
patches correct the errors in BA.SYS and BA.MAC.

Patch to BA.SYS:

.R PATCH<RET>

FILE NAME--
*BA.SYS/A/C<RET>
*1ØØØ;ØR
*Ø,3224/   32714   167<LF>
Ø,3226/ 2   622<LF>
Ø,323Ø/ 174Ø   24Ø<RET>
*Ø,4Ø52/   Ø   32714<LF>
Ø,4Ø54/ Ø   2<LF>
Ø,4Ø56/ Ø   1ØØ2<LF>
Ø,4Ø6Ø/ Ø   167<LF>
Ø,4Ø62/ Ø   177Ø46<LF>
Ø,4Ø64/ Ø   32714<LF>
Ø,4Ø66/ Ø   4ØØ<LF>
Ø,4Ø7Ø/ Ø   1ØØ2<LF>
Ø,4Ø72/ Ø   167<LF>
Ø,4Ø74/ Ø   177134<LF>
Ø,4Ø76/ Ø   167<LF>
Ø,41ØØ/ Ø   176606<RET>
*E

Checksum?   4Ø752<RET>

Re-Boot after installing the patch.

Patch to BA.MAC:

```
.R EDIT <RET>
*EBBA.MAC[19]<ESC>R<ESC><ESC>
*F.TITLE<ESC><ESC>
*A-2JI<TAB>;EDIT LEVEL 1<ESC>V<ESC><ESC>
.TITLE RT-11 BATCH HANDLER VØ3.Ø1          ;EDIT LEVEL 1
*2FB$PRN:<ESC><ESC>
*FMMG$T<ESC><ESC>
*ØAI      BIT      #NOTTY,(R4)              ;ØØ1<RET>
          BNE      BATRTI                   ;ØØ1<RET>
<ESC>-3A4L<ESC><ESC>
          .ENDC
          BIT      #NOTTY,(R4)              ;ØØ1
          BNE      BATRTI                   ;ØØ1
.IF NE MMG$T
*EX<ESC><ESC>
```

There is no change in the version number due to the above patches.

IMPROPERLY CHECKED INPUT CAUSES UNPREDICTABLE RESULTS (SPR 11-25684 JM)

Compares against ASCII characters incorrectly assume that the high byte in
RØ is clear when returning from a .TTYIN. In certain cases the high byte
of RØ will return as non-zero, causing the compare to fail. The following
patches correct the errors in both BA.SYS and BA.MAC.

Patch to BA.SYS:
.R PATCH <RET>

FILE NAME--
*BA.SYS/A/C <RET>
*1ØØØ;ØR
*Ø,2Ø66/   22700   122700 <RET>
*Ø,2114/   22700   122700 <RET>
*Ø,23Ø4/   22700   122700 <RET>
*Ø,2652/   22700   122700 <RET>
*E

Checksum?   26115 <RET>

.

Re-boot after installing the patch.

Patch to BA.MAC:

.R EDIT <RET>
*EBBA.MAC[19]<ESC>RV<ESC><ESC>
.TITLE RT-11 BATCH HANDLER VØ3.Ø1   ;EDIT LEVEL 1
*GLEVEL 1<ESC>-DI2<ESC>V<ESC><ESC>
.TITLE RT-11 BATCH HANDLER VØ3.Ø1   ;EDIT LEVEL 2
*FBTTIS:<ESC>GP<ESC>IB<ESC>V<ESC><ESC>
BTTIS: CMPB   #'\,RØ
*GCMP<ESC>IB<ESC>V<ESC><ESC>
        CMPB   #'\,RØ
*F#'$<ESC>-4JIB<ESC>V<ESC><ESC>
        CMPB   #'$,RØ
*FB$TIN2:<ESC>GCMP<ESC>IB<ESC>V<ESC><ESC>
        CMPB   #15,RØ
*EX<ESC><ESC>

.

There is no resultant version change after installing the above patches.

BAD BLOCK REPLACEMENT ON RLØ1'S (CG)

When initializing an RLØ1, DUP incorrectly accesses the manufacturing bad sector file. This will generally cause the message:

    ?DUP-F-Error in system area

or

    ?DUP-W-Bad directory block

It is also possible that this error will cause DUP to corrupt the software bad block replacement table in block 1 of the volume.

The following binary patch to DUP.SAV VØ3.Ø4C will correct the problem.

.R PATCH <RET>

FILE NAME--
*DUP.SAV/O/C <RET>

```
?PATCH-W-Bottom address wrong
*1ØØØ;B
*1216;ØR
*11533\ 1Ø3      1Ø4 <RET>
*Ø,747Ø/          4767      627Ø4 <LF>
Ø,7472/ 175224   1Ø <LF>
Ø,7474/ 627Ø4    12714 <LF>
Ø,7476/ 1Ø       177777 <RET>
*E
```

Checksum?   26Ø27 <RET>

The resultant version will be DUP VØ3.Ø4D.

MDUP AND RLØ1'S (CG)

MDUP.MT and MDUP.MM were built using an RLØ1 driver vectored at 33Ø. This
causes MDUP to hang when trying to access an RLØ1. The following binary
patches will allow bootable magtapes built from <u>patched</u> systems to access
RLØ1's.

                                    NOTE

    This patch does <u>not</u> allow RT-11 VØ3B magtape distribution to access
    RLØ1's. See the August 1978 article Seq 8 M "RLØ1 Controller
    Vector at 16Ø (CR)".

    Patch to MDUP.MT VØ3.Ø5A
    .R PATCH <RET>

    FILE NAME--
    *MDUP.MT/A/C <RET>
    *16Ø/   Ø   46464 <LF>
    162/   Ø   34Ø <RET>
    *33Ø/   46464   Ø <LF>
    332/   34Ø   Ø <RET>
    *E

    Checksum?   35727 <RET>

    .

    Patch to MDUP.MM VØ3.Ø5A

    .R PATCH <RET>

    FILE NAME--
    *MDUP.MM/A/C <RET>
    *16Ø/   Ø   46464 <LF>
    162/   Ø   34Ø <RET>
    *33Ø/   46464   Ø <LF>
    332/   34Ø   Ø <RET>
    *E

    Checksum?   35727 <RET>

    .

    The version numbers will not change.

CORRECTION TO PDT-11/150 SUPPORT IN FILEX (SPR 11-28130 MG)

PROBLEM:

FILEX returns the ?FILEX-F-ILLEGAL DEVICE message if an attempt is made to
use a PDT-11/150 disk in interchange(/U) mode. This problem is due to an
error in the patch article entitled 'CORRECTIONS AND ADDITIONS TO FILEX'.

SOLUTION:

The following mandatory patch corrects the problem. (NOTE: All previous
patches must be applied before applying this one.)

Patch to FILEX V03.10B:

.R PATCH<RET>

FILE NAME--
*FILEX.SAV/C<RET>
*1510;0R
*0,17640/   36   37<RET>
*0,1064\   102   103<RET>
*E

Checksum?   74771<RET>

The resultant version is FILEX V03.10C.

PROBLEM WITH DUP ERRORS WHEN /W OPTION USED (SPR 11-28139 DF)

When the /W option is used to allow the user to remove and replace the system disk, the user is not given a chance to replace the system disk if an error occurs during the operation. Following an error, such as DEVICE FULL or DEVICE NOT ZEROED (for squeeze), control returns directly to the CSI. Instead a message should be printed prompting the user to REPLACE THE SYSTEM DISK. If the user types CNTRL/C before replacing the system disk, the system will halt.

The following patch corrects this problem.

Patch to DUP.SAV VØ3.Ø4D

.R PATCH <RET>

FILE NAME—
*DUP.SAV/C <RET>
*11533\ 1Ø4   1Ø5 <RET>
*1126Ø/ 17ØØ36 17Ø55Ø <RET>
*E

Checksum?   373Ø7 <RET>

.

The resultant version will be DUP.SAV VØ3.Ø4E.

INSUFFICIENT DIRECTORY SPACE ON NON-SYSTEM FLOPPY (SPR 11-26521 DF)

When running PIP with the system device dismounted, a directory overflow
error caused PIP to halt the system. An .HERR request in PIP allowed fatal
errors to be intercepted by the system, which in turn, aborted PIP. With
the system device not present, a return from PIP causes a HALT to occur.

By removing the .HERR request, PIP can report the error itself and continue
normally with the next prompt. To abort PIP, the system device must be
replaced before CNTRL/C is typed. The following patch removes the .HERR
request.

Patch to PIP.SAV V06.01B.

.R PATCH <RET>

FILE NAME--
*PIP.SAV/C <RET>
*1756/ 102   103 <RET>
*4112/ 104374 240 <RET>
*E

Checksum?   30423 <RET>

.

The resultant version will be PIP V06.01C.

This is a complete listing of all articles for current versions of RT-11 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.

Component	Sequence	Mon/Yr
APL-11 V1		
APL.SAV PROGRAM PATCHES		
ERRONEOUS "DEFINITION ERROR" DURING FUNCTION EDITING	01 M	Nov 77
LOSS OF LOWER-CASE ON RE-ENTRY TO APL-11	02 M	Nov 77
APL WORKSPACE	03 R	Nov 77
"SYSTEM ERROR"S GENERATED BY NULL LINE ELEMENTS	04	Dec 77
INTERNAL MEMORY ALLOCATION PROBLEMS	05 M	Dec 77
ERROR FOR SCALAR RESULT OF DECODE OR INNER PRODUCT OPERATION	06 M	Feb 78
SYSTEM ERROR ON PARAMETER RETURN	07 M	May 78
BASIC-11/RT-11 V2		
RESEQUENCE PRODUCES AN INCORRECT PROGRAM UNDER CERTAIN CONDITIONS	01 M	Aug 78
PRINT USING	02 M	Jun 78
MAX SIZE OF LINE ENTERED TO BASIC-11	03 M	Jun 78
REM STATEMENT CONTAINING LEFT PARENTHESIS CAUSES SUBSEQUENT SPACES AND PERIODS TO BE REMOVED	04 R	Jun 78
RUN (NH) COMMAND MAY GIVE AN ERROR MESSAGE	05 M	Jul 78
TERMINAL MAY HANG	06 M	Jul 78
DATA FILES	07 M	Jul 78
SAVE DEV: AND REPLACE DEV:	08 M	Jul 78
SINGLE PRECISION HANG AND NUMERIC CONVERSION PROBLEM (PATCH F)	09 M	Aug 78
CONVERSION PROGRAM	10 M	Sep 78
OVERLAYING WHILE IN A SUBROUTINE	11 R	Nov 78
OPERATION OF CTRLC, AND RCTRLC AND SYS (6) FUNCTIONS AND THE CTRL/C COMMAND	12 N	Nov 78
BASIC-11/RT-11 V2 CONVERSION PROGRAM PATCH 1	13 M	Feb 79
OPERATION OF OLD, RUN, CHAIN AND OVERLAY WHEN THE SPECIFIED FILE IS NOT FOUND	14 N	Feb 79
CREATING AND ACCESSING VIRTUAL ARRAY FILES	15 N	Feb 79
REPUBLICATION OF PATCHES	16 N	Feb 79
PRINT USING - PATCH A	17 M	Feb 79
RESEQ - PATCH B	18 M	Feb 79
EDITING A DIM #n STATEMENT - PATCH C	19 M	Feb 79
DOUBLE PRECISION HANG - PATCH D	20 M	Feb 79
SAVE dev: AND REPLACE dev: - PATCH E	21 M	Feb 79
SINGLE PRECISION HANG AND NUMERIC CONVERSION PROBLEM - PATCH F	22 M	Feb 79
SAVE .XXX & UNSAVE .XXX - PATCH G	23 M	Feb 79

Component	Sequence	Mon/Yr
NEW - PATCH H	24 M	Feb 79
STORAGE OF THE NULL CHARACTER IN STRING VARIABLES AND VIRTUAL STRING ARRAYS	25 N	Feb 79
USE OF COMPILE COMMAND	26 N	Feb 79
RESEQ - PATCH I	27 M	Mar 79
LISTNH /OLD - PATCH J	28 M	Mar 79
SYS(1) - PATCH K	29 M	Mar 79
CALL - PATCH L	30 M	Mar 79
DOUBLE PRECISION INTEGER VARIABLES - PATCH M	31 M	May 79
FILESIZE 0 - PATCH N	32 M	May 79
INTEGERS IN DOUBLE PRECISION BASIC-11	33 M	Jul 79
REM STATEMENTS ON MULTI-STATEMENT LINES - PATCH O	34 M	Jul 79
STRING MANIPULATION IN ASSEMBLY LANGUAGE ROUTINES	35 N	Aug 79
MAXIMUM ARRAY SUBSCRIPT SIZE	36 N	Aug 79

BASIC/RT-11 EXTENSIONS V1

Component	Sequence	Mon/Yr
"IPK" SUBROUTINE	01 M	Aug 77
SAMPLING A/D CHANNEL NO. 15	02 R	Aug 77
SAMPLING AR11	03 M	Sep 77
"CLRD" AND "PUTD" ROUTINES	04 M	Nov 77
"SETR" AND "WAIT" COMBINATION MAY FAIL	05	Apr 78
BASIC/RT-11 EXTENSION BUILD PROCEDURE RESTRICTION	06 R	Mar 79

CTS-300 V5

DECFORM

Component	Sequence	Mon/Yr
TWO PROBLEMS WITH FOCOMP	01 M	May 79

DIBOL

Component	Sequence	Mon/Yr
TWO PROBLEMS: FILE CORRUPTION POSSIBILITY AND REPETITIVE I/O ERRORS	01 M	Mar 79
OPENING NON-STANDARD HANDLERS	02 M	Apr 79
ANOTHER FILE CORRUPTION POSSIBILITY	03 M	Apr 79
TWO PROBLEMS: OPENING 0 LENGTH FILE IN SUD AND OPENING LP IN I MODE	04 M	Jun 79
LINE PRINTER PROBLEM AND PROBLEM WITH LARGE ISAM FILE	05 M	Jun 79
I/O ERRORS AND PROBLEM WITH FMAC SUBROUTINE	06 M	Jun 79
ISAM FILE CORRUPTION	07 M	Jun 79
SHUFFLE CAUSES TRAP TO 4	08 M	Jul 79
MISLEADING ERROR MESSAGES	09 M	Aug 79
ERRONEOUS I/O ERROR	10 M	Aug 79
TWO PROBLEMS WITH MULTI-VOLUME FILES	11 M	Oct 79
INCORRECT ERROR ON WRITING DUPLICATE FILE TO MAGTAPE	12 M	Dec 79
ACCEPT CAUSES ERRORS	13 M	Mar 80
I-O ERROR ON ISAM STORE/DELETE	14 M	Mar 80

DICOMP

Component	Sequence	Mon/Yr
DICOMP DISLIKES SOME COMMENTS	01 M	Sep 79

ISMUTL

Component	Sequence	Mon/Yr
REORG PROBLEMS DUE TO INSUFFICIENT SPACE ON DEVICE	01 M	Feb 80

REDUCE

Component	Sequence	Mon/Yr
HOW TO REDUCE PAINLESSLY	01 N	Aug 79
A REDUCING PROBLEM	02 M	Dec 79

SORTM

Component	Sequence	Mon/Yr
MERGE DOES NOT ACCEPT EMPTY FILES	01 M	Apr 79

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

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

Component	Sequence	Mon/Yr

DECnet-RT V1

DAP

Component	Sequence	Mon/Yr
DAP ROUTINES DO NOT ARBITRATE DAP SEGMENT SIZE PROPERLY	07 M	Jan 79
NOTES ON CHANGES TO DAP INTERFACE	09 N	Feb 79
CORRECT BUFFER POINTER ERROR	16.11 M	May 79
DAP ATTEMPTS TO SEND A MESSAGE TOO LONG	17.7 M	Sep 79

DDCMP

Component	Sequence	Mon/Yr
DDCMP LINE COUNTERS OVERFLOW TO ZERO	01 O	Jul 78

DMC

Component	Sequence	Mon/Yr
DMC LINE COUNTERS OVERFLOW TO ZERO	01 O	Jul 78

DOCUMENTATION

Component	Sequence	Mon/Yr
USER'S GUIDE DOCUMENTATION ERRORS	2.1 N	Aug 79

FAL

Component	Sequence	Mon/Yr
CORRECT FAL PROCESSING OF END OF STREAM MESSAGE	01 M	Jan 79
FAL INCORRECTLY ALLOCATES DISC SPACE FOR FILES	02 M	Feb 79
FAL INCORRECTLY HANDLES REMOTE FILE REQUESTS	04 M	Feb 79
TIMING DEPENDENCY IN RT TO RSTS FILE TRANSFERS	17.5 M	Jul 79
MRS FIELD NOT DEFAULTED PROPERLY	17.6 M	Jul 79

FORTRAN INTERFACE

Component	Sequence	Mon/Yr
DIFFERENCES IN RT AND RSX FORTRAN INTERFACE IMPLEMENTATIONS	01 N	Jul 78
USE OF THREADED AND INLINE FORTRAN COMPILER OPTIONS	04 R	Jan 79
FORTRAN REMOTE OPEN FOR WRITE MODIFIES FILE ATTRIBUTES	05 N	Jan 79

MODEM CONTROL

Component	Sequence	Mon/Yr
SUPPORT OF ASYNCHRONOUS HALF DUPLEX MODEMS	01 R	Jul 78

NFARS

Component	Sequence	Mon/Yr
DAP ROUTINES CHANGE MODE DURING FILE TRANSFER	02 M	Feb 79
CHECK FOR BLOCK MODE TRANSFER	03 M	Feb 79
DAP DEFAULTS DO NOT ALLOW RECORDS TO SPAN BLOCKS	06 O	Jan 79
ASCII FILE ACCESS TO VAX/RSX SYSTEMS	08 M	Feb 79
INVALID FILE TYPE SENT TO VAX IN ASCII TRANSFER	10 M	Mar 79

NSP

Component	Sequence	Mon/Yr
PROTOCOL VIOLATION IN NODE INITIALIZATION	01 M	Jan 79

NFT

Component	Sequence	Mon/Yr
NFT ASCII FILE TRANSFER TO VAX/RSX SYSTEMS	03 M	Feb 79
LOGICAL BLOCK NUMBERS NOW START AT ONE	17.5 M	May 79

FEP-11, FORTRAN ENHANCEMENT PACKAGE
(ALSO PERTAINS TO: RT-11/FORTRAN UPGRADE PACKAGE FOR MINC)

Component	Sequence	Mon/Yr
FEP-11 INITIAL PROBLEMS, SOLUTIONS AND HINTS	01 M	May 79
PROBLEMS WITH IEEE-BUS SUBROUTINES	02 M	Feb 80

FMS-11 V1

Component	Sequence	Mon/Yr
CONSOLE TERMINAL SPECIAL MODE BIT CLEARED	01 M	Jun 79
INCORRECT MCDEMO FILE TYPES	02 O	Jun 79
TSKINI INPUT BUFFER TOO SMALL	03 M	Jun 79
ARTS ERROR MESSAGES LACK '?'	04 M	Jun 79
HANDLER FETCH CORRUPTS FORM FILE ID	05 M	Jul 79
ZERO-FILLED FIELD VALIDATION PROBLEM	06 M	Jul 79
FILED VIDEO ATTRIBUTES PROBLEM	07 M	Jul 79
FRED ERROR MESSAGES LACK'?'	08 M	Jul 79
ERROR IN SCROLL FORWARD/BACKWARD CODE	09 M	Jul 79
ERROR IN EXIT SCROLLED AREA FORWARD CODE	10 M	Jul 79
ANNOUNCING FMS-11 FORMS MANAGEMENT SYSTEM	11 F	Nov 79

FOCAL/RT-11 V1B

Component	Sequence	Mon/Yr
FOR COMMAND WITHOUT AN ARGUMENT	01 M	Oct 75
OPERATE COMMAND CAUSES ERROR	04 M	Aug 76
FCLK ROUTINE GIVES INCORRECT TIME	05 O	Aug 76

Component	Sequence	Mon/Yr
"LIBRARY ASK" COMMAND	06 O	Feb 77
"/Z" SWITCH	07 M	Aug 77
@START NOT WORKING WHEN DOWN-LINE LOADING	08 M	Mar 78
LIBRARIES FROM FOCAL SOURCE DISK MUST BE REFORMATTED	09 N	Aug 78
CLOCK PROBLEM FOR PAPER TAPE (STAND-ALONE) FOCAL USERS	10 M	Nov 78

FORTRAN GRAPHICS PACKAGE, V1.1

DECGRAPHIC

Component	Sequence	Mon/Yr
NMBR SUBROUTINE IN DECgraphic	01 R	JAN 79

FORTRAN/RT-11 EXTENSIONS V1

Component	Sequence	Mon/Yr
RUNNING PROGRAM WITH "SETR"	01 M	Oct 78
IBEF NOT PROPERLY DECREMENTED	02 R	Oct 78
LPS DEVICE CONFLICT CAUSED BY CALL SETR AFTER CALL RTS	03 R	Oct 78
IADC AFTER RTS DOES NOT WORK	04 M	Oct 78
SUBROUTINE NAMING CONFLICT	05 N	Oct 78
PLOT55 DESCRIPTION	06 N	Oct 78
ILLEGAL MEMORY REFERENCE ERROR	07 M	Oct 78
DEVICE CONFLICT ERROR	08 R	Oct 78
TWO PROBLEMS WITH THE RT-11/FORTRAN GRAPHICS EXTENSIONS	09 M	Oct 78

FORTRAN/RT-11 EXTENSIONS V1B

Component	Sequence	Mon/Yr
FORTRAN CRASHES AFTER RUNNING PROGRAM WITH "SETR"	01 M	Oct 78
TWO PROBLEMS WITH THE RT-11/FORTRAN GRAPHICS EXTENSIONS	02 M	Oct 78
NEGATIVE INTENSITY	03 N	Nov 78
PROGRAM TERMINATION ERROR USING RT-11 F/B	04 R	Apr 79

FORTRAN/RT-11 EXTENSIONS V2.1

Component	Sequence	Mon/Yr
FORTRAN CRASHES AFTER RUNNING PROGRAM WITH "SETR"	01 M	Mar 79
TWO PROBLEMS WITH THE RT-11/FORTRAN GRAPHICS EXTENSIONS	02 M	Mar 79
NEGATIVE INTENSITY	03 N	Mar 79

FORTRAN IV/RT-11 V2

COMPILER

Component	Sequence	Mon/Yr
DISPOSE = 'KEEP' OPTION	01 R	Jan 79
CRASH DUMPS	02 N	Jan 79
SYNTAX ERRORS IN SOURCE PROGRAM MAY CAUSE COMPILER TO ABORT	03 M	Jan 79
SIMRT	04 M	Jan 79
SIMRT CONTINUED	05 M	Jan 79
KNOWN FORTRAN IV V2 BUGS	06 N	Jan 79
USE OF THE FIND STATEMENT	07 M	Jan 79
RAISING COMPLEX NUMBERS	08 M	Jan 79
EXTRA CHARACTERS MAY RESULT IN COMPILER TRAPPING	09 M	Jan 79
TRANSMITTING ASCII DATA	10 R	Jan 79
IN-LINE CODE	11 N	Jan 79
ERRORS OCCUR WITH NO DO LOOP	12 M	Jan 79
FORTRAN "ACCEPT" STATEMENT	13 R	Jan 79

FORTRAN IV/RT-11 V2.1

Component	Sequence	Mon/Yr
FORTRAN IV V2.1 MAINTENANCE RELEASE	01 N	Dec 78
PATCH 1	02 M	Feb 79
PATCH 2	03 M	Feb 79
PATCH 3	04 M	Feb 79
PATCH 4	05 M	Sep 79
CARRIAGE CONTROL OPTION - PATCH 5	06 M	May 79
OPEN FAILURE WITH TYPE='OLD' - PATCH 6	07 M	Sep 79
FORTRAN LIBRARY FUNCTION ERRTST - PATCH 7	08 M	Aug 79
REGISTER ALLOCATION - PATCH 8	09 M	Sep 79
SMALLER EXECUTION-TIME PROGRAMS	10 N	Jun 79
FORTRAN OTS - PATCH 9	11 M	Sep 79
I/O FROM A FORTRAN COMPLETION ROUTINE - PATCH 10	12 M	Aug 79
FORTRAN FAILS TO COMPILE DO-LOOPS - PATCH 11	13 M	Aug 79

Component	Sequence	Mon/Yr
CALL CLOSE (FORTRAN LIBRARY SUBROUTINE) - PATCH 12	14 M	Aug 79
UNFORMATTED BYTE I/O - PATCH 13	15 F	Aug 79
LIST DIRECTED INPUT ERRORS - PATCH 14	16 M	Aug 79
DISP='DELETE' OPTION - PATCH 15	17 M	Aug 79
FORMATTED RECORD OUTPUT - PATCH 16	18 M	Aug 79
COMMON SUBEXPRESSION OPTIMIZATION - PATCH 17	19 M	Aug 79
CALL ASSIGN CARRIAGE CONTROL - PATCH 18	20 M	Aug 79
NON-PLAS VIRTUAL ARRAY INITIALIZATION - PATCH 19	21 M	Aug 79
BYTE COMPARISON AND COMMON SUBEXPRESSION OPTIMIZATION - PATCH 20	22 M	Aug 79
DIRECT ACCESS READ - PATCH 21	23 M	Aug 79
COMPLEX VARIABLE TO CONSTANT COMPARISON - PATCH 22	24 M	Aug 79

GAMMA-11 F/B V2

Component	Sequence	Mon/Yr
DATA ANALYSIS PROGRAM	01 M	Feb 79
STUDY PROGRAM DISPLAYS TOO MANY INDEX LINES PER PAGE	02 M	Feb 77
BASIC AND FOCAL	03 M	Feb 77
BACKGROUND PROGRAM CAN HANG THE FOREGROUND TERMINAL	04 M	Feb 77
CNTL/C UNDER SINGLE JOB MONITOR	05 M	Feb 77
CROSSHAIRS FAIL TO APPEAR IN SLICE	06 M	Feb 77
UNDOCUMENTED PROGRAMS	07 N	Mar 77
FORTRAN SUPPORT INCORRECTLY CONVERTS DATA AND TIME OF INQUISITION	08 M	May 77
"RS" COMMAND IS INCORRECTLY	09 N	Jun 77

GAMMA-11 F/B V2C

Component	Sequence	Mon/Yr
GATED LIST MODE IMAGES	01 O	Sep 78
TU16 SUPPORT	02 M	Sep 78
PROBLEMS WITH PLAYBACK BUFFER COMMENTS AND FLOOD CORRECTIONS	03 M	Oct 78
STATIC FOREGROUND ACQUISITION FAILS ON RK06 OR RL01 SYSTEMS	04 M	Oct 78
DYNAMIC CURVE CALCULATIONS MAY FAIL	05 M	Dec 79
RK06, 7 AND RL01 FOREGROUND ACQUISITIONS PROBLEMS	06 M	Dec 78
PROBLEMS WITH FLOOD CORRECTIONS	07 M	Dec 78
PROBLEMS WITH REGION OF INTEREST	08 M	Dec 78
KW11-P REAL-TIME CLOCK INCORRECTLY INITIALIZED	09 M	Dec 78
GAMMA-11 V2C NCV11 REAL-TIME CLOCK CAN BE DISABLED	10 M	Dec 78
KW11-P REAL-TIME CLOCK RUNS TOO FAST DURING GSA STUDIES	11 M	Dec 78
BUILDING AN RL01 GAMMA-11 V2C SYSTEM	12 M	Dec 78
PREDEFINED GATED LIST MODE STUDIES	13 M	Dec 78
GATED LIST MODE DATA ACQUISITION SET-UP	14 M	Dec 78
PROBLEMS WITH MAGTAPE DISTRIBUTION	15 N	Dec 78
SUBROUTINE 'GMXG' GENERATES ILLEGAL ADDRESS MESSAGE	16 F	Jul 79
FGAMMA/BGAMMA RACE CONDITION	17 M	Feb 79
DELAYED START LIST MODE STUDIES	18 M	Feb 79
FORMATTING GATED LIST MODE STUDIES	19 M	Feb 79
SLICE PROBLEMS	20 M	Feb 79
DOUBLE INTERPOLATION OF 64 X 64 MATRIX DATA	21 M	Feb 79
GAMMA-11 AND RT-11 DATE ROLLOVER	22 M	Feb 79
PROBLEMS WITH PATIENT MONITOR AND GSA ADMIN BLOCKS	23 M	Feb 79
FOREGROUND GATED LIST MODE STUDIES FAIL	24 M	Feb 79
NCV11 JOYSTICK AND LIST MODE PROBLEMS	25 M	May 79
SYSTEM SUMMARY FOR RK07 DISKS	26 O	May 79
MORE PROBLEMS WITH FLOOD CORRECTION	27 M	May 79
TWO MINOR PROBLEMS WITH PLAYBACK BUFFERS	28 M	May 79
TRANSFER STUDY CAN CORRUPT A DISK DIRECTORY	29 M	May 79
FOUR FRAME MINIMUM FOR GSA STUDIES	30 M	May 79
GAMMA-11/BASIC PATCHES	31 M	May 79
CONTINUE ANALYSIS CA) OCCASIONALLY FAILS	32 M	May 79
ASCII STRING VARIABLE TABLE (FORTRAN AND BASIC) -- SUBROUTINE GPAR AND GPAW --	33 M	Jul 79
GAMMA-11 SYSTEMS WITH RK07 AS A DEVICE	34 M	Sep 79
INVOKING AN RT-11 INDIRECT COMMAND FILE FROM GAMMA-11	35 O	Oct 79
PROBLEM WITH ABORTING GAMMA-11	36 M	Oct 79
PROBLEMS WITH FORTRAN SUBROUTINES 'GPFR' AND 'GPFW'	37 F	Nov 79
PROBLEMS WITH THE SAME COMMAND (S) IN RI	38 M	Nov 79

GAMMA-11 F/B V2.4

Component	Sequence	Mon/Yr
CONTINUE ANALYSIS (CA) OCCASIONALLY FAILS	01 M	Oct 79
GAMMA-11 SYSTEMS WITH RK07 DISKS AS A DEVICE	02 M	Jan 80
PROBLEM WITH ABORTING GAMMA-11	03 M	Oct 79

Component	Sequence	Mon/Yr
PROBLEMS WITH FOUR BIT MAP ANALYSIS COMMANDS	04 M	Oct 79
PROBLEMS WITH FORTRAN SUBROUTINES 'GPFR' AND GPFW'	05 F	Jan 80
PROBLEMS WITH DATA ANALYSIS	06 M	Jan 80
PROBLEMS WITH DYNAMIC ACQUISTION ON RK05 GAMMA-11	07 M	Nov 79
PROBLEMS WITH DATA ACQUISTION	08 M	Nov 79
TRANSFER STUDIES WITH MAGTAPE PROBLEM	09 M	Nov 79

LABORATORY APPLICATIONS-11 V3

	Sequence	Mon/Yr
A NEW MODULE TO ENHANCE DATA FLOW WITHIN LA-11	01 N	Oct 76

HISTO.MAC

ACQUIRING AND PROCESSING HISTOGRAM DATA	01 M	Sep 76

LABMAC.SML

ERRONEOUS MACRO	01 M	Sep 77
INCLUDING LABMAC.SML IN SYSMAC.SML	02 M	Mar 79

PEAK.MAC

WIDE PEAKS	01 M	Mar 76
PEAK PROBLEMS AND CORRECTIONS	02 M	Jul 76
ARITHMETIC CORRECTION FOR PEAK AREA	03 M	Dec 76
MISSING PATCH IN RELEASE NOTES	04 M	Oct 77

SPARTA

LPS AND AR-11 VECTOR AND STATUS REGISTER	01 N	Dec 75
USING SPARTA AND FLOATING POINT BUFFERS	02 N	Feb 76
AR-11 TIMING PROBLEMS WITH ADSAM AND SPARTA	03 O	Feb 76
FFT SCALING CORRECTION	04 M	Feb 76
SCALE FACTOR CORRECTION FOR SPARTA COMMANDS FAC AND FCC	05 M	Mar 76
DATA DISPLAYS USING LA-11	06 N	Mar 76
DATA PREPARATION FOR SPARTA COMMANDS FAC AND FCC	07 N	Apr 76
SPARTA CORRECTIONS FOR POINT-PLOT DISPLAY	08 M	Apr 76
ADDING COMMANDS TO SPARTA	09 M	May 76
CORRECTION FOR THE DPV COMMAND WITH POINT PLOT DISPLAY	10 M	Jun 76
GENERAL SUBROUTINE MODULE FOR EAE	11 O	Jun 76
INCORRECT PHASE ANGLE CALCULATION	12 M	Oct 76
"MOU" AND "MIN" COMMANDS CAN BE READ OUT AND IN CORRECTLY	13 N	Jan 77
MULTIPLE SYNCH PULSES	14 M	Jan 77
AUTO AND CROSS CORRELATION	15 M	Jan 77
ALLOCATING MORE THAN 16K BUFFERS IN SPARTA	16 M	Feb 77
A/D SAMPLING: FAST MODE	17 M	Jul 77
A/D SAMPLING: FAST MODE EXIT	19 M	Mar 78
SCALE FACTOR PRINT FOR THE FFT	20 M	Jan 79

SWEEP.MAC

SWEEP SAMPLING: FAST MODE	01 M	Aug 77

THRU

HOW TO START DATA ACQUISITION WHEN CSTART EQUALS ZERO	01 N	Jun 76
MULTICHANNEL SINGLE RATE SCHMIT TRIGGER SWITCH BOUNCE	02 M	Dec 76
CONTINUOUS SAMPLING: CONDITIONAL ASSEMBLY ERRORS	03 M	Jul 77
CONTINUOUS SAMPLING: DMA WITH DUAL SAMPLE + HOLD	04 M	Jul 77
DOCUMENTATION CORRECTIONS	05 M	Nov 77

LSP-11 V1

PATCH NO. 1 - GENERAL CORRECTIONS NO. 1	01 M	Jun 79
PATCH NO. 2 - PEAK CORRECTION NO. 1	02 M	Jun 79
PATCH NO. 3 - PEAK CORRECTION NO. 2	03 M	Jun 79

LV11/RT-11 PLOTTING PACKAGE V2

SUBROUTINE PLOT DOES NOT CORRECTLY REPRODUCT VT11 PICTURE	01 M	Apr 78

MSB-11 V1.0

MSB-11 SOFTWARE ON THE PDP-11/03	01 M	Jul 79

Component	Sequence	Mon/Yr
MU BASIC/RT-11 V1		
BUILDING MU BASIC/RT-11 UNDER RT-11 V2C	01	Feb 76
REMOTE TERMINAL SUPPORT ON MODEMS	02	May 76
OVERLAY... LINE WORKS INCORRECTLY	03	May 76
USING IMMEDIATE MODE "GOSUBs"	04	Dec 76
CLOCK LOSES TIME ON RT-11 WHEN RUNNING MU BASIC	05	Jul 77
REM STATEMENTS	06	Feb 78
ADDITIONAL FILES ON RELEASE KIT (MUB*.*)	07 N	May 78
MU BASIC/RT-11 SYSTEM INSTALLATION GUIDE		
REPLACEMENT PAGES	01	Jan 77
REPLACEMENT PAGES	02 N	Jan 78
REPLACEMENT PAGES	03 N	Jan 78

Component	Sequence	Mon/Yr
MU BASIC-11/RT-11 V2		
MU BASIC-11/RT-11 V2 CONVERSION PROGRAM	01 R	Nov 78
OPERATION OF CTRL/C, RCTRLC AND SYS (6) FUNCTIONS AND THE CTRL/C COMMAND	02 N	Nov 78
MEMORY REQUIREMENTS OF OPTIONAL FUNCTIONS ETC.	03 O	Nov 78
MU BASIC-11/RT-11 V2 RELEASE NOTES AND INSTALLATION GUIDE CHANGES	04 N	Dec 78
ORDER OF COMMON STATEMENTS AT START OF MUCNFG.BOO, MUCNF1.BOO, MUCNF2.BOO	05 M	Dec 78
OPERATION OF OLD, RUN, CHAIN AND OVERLAY WHEN THE SPECIFIED FILE IS NOT FOUND	06 N	Feb 79
CREATING AND ACCESSING VIRTUAL ARRAY FILES	07 N	Feb 79
STORAGE OF THE NULL CHARACTER IN STRING VARIABLES AND VIRTUAL STRING ARRAYS	08 N	Feb 79
USE OF COMPILE COMMAND	09 N	Feb 79
MU BASIC-11/RT-11 V2 CONFIGURATION PROGRAM PATCH 1	10 O	Feb 79
CHAINING WITH COMMON -PATCH A	11 M	Feb 79
VIRTUAL FILE I/O - PATCH B	12 M	Feb 79
SYS (1,n) FUNCTION - PATCH C	13 M	Feb 79
RESEQ - PATCH D	14 M	Feb 79
VALUES IN PATCHES A, B, C	15 N	Feb 79
LISTNH /OLD - PATCH E	16 M	Mar 79
CALL - PATCH F	17 M	Mar 79
MU BASIC-11 DEVICE INDEPENDENCE FOR INIT.BOO - SPECIIAL PATCH YY1	18 M	May 79
DOUBLE PRECISION INTEGER VARIABLES - PATCH G	19 M	May 79
INPUT #/PRINT # - PATCH H	20 M	May 79
OLD OF A ZERO BLOCK FILE - PATCH I	21 M	May 79
ADDITION TO PATCH B - PATCH J	22 M	May 79
MU BASIC-11/RT-11 V2 PERFORMANCE IMPROVEMENT PATCH NO. 1	23 M	May 79
MU BASIC-11/RT-11 V2 PERFORMANCE IMPROVEMENT PATCH NO. 2	24 M	May 79
MU BASIC-11/RT-11 V2 PERFORMANCE IMPROVEMENT PATCH NO. 3	25 M	May 79
MU BASIC-11/RT-11 V2 PERFORMANCE IMPROVEMENT PATCH NO. 4a	26 M	May 79
MU BASIC-11/RT-11 V2 PERFORMANCE IMPROVEMENT PATCH NO. 4b	27 M	May 79
MU BASIC-11/RT-11 V2 PERFORMANCE IMPROVEMENT PATCH NO. 4c	28 M	May 79
MU BASIC-11/RT-11 V2 PERFORMANCE IMPROVEMENT PATCH NO. 5	29 M	May 79
MU BASIC-11/RT-11 V2 PERFORMANCE IMPROVEMENT PATCH NO. 6	30 M	May 79
MU BASIC-11/RT-11 V2 PERFORMANCE IMPROVEMENT PATCH NO. 7	31 M	May 79
MU BASIC-11/RT-11 V2 PERFORMANCE IMPROVEMENT PATCH NO. 8	32 M	May 79
DEVICE MNEMONIC PROBLEM - PATCH K	33 M	Jul 79
CLOSE - PATCH L	34 M	Jul 79
REM STATEMENTS ON MULTI-STATEMENT LINES	35 M	Jul 79
DEASSIGNING A TERMINAL - PATCH N	36 M	Jul 79
OVERLAYING THE ERROR MESSAGE MODULE - SPECIAL PATCH WW1	37 M	Jul 79
UNEQUAL USER PARTITION SIZE ALLOCATION - SPECIAL PATCH XX1	38 M	Jul 79
HOW TO CHANGE INIT.BOO's DEVICE AFTER INSTALLING SPECIAL PATCH YY1	39 M	Jul 79
INTEGERS IN DOUBLE PRECISION MU BASIC-11	40 M	Jul 79
STRING MANIPULATION IN ASSEMBLY LANGUAGE ROUTINES	41 N	Aug 79
SIZING MU BASIC-11	42 N	Aug 79
ERROR IN TABLE 4-1 OF THE USER'S GUIDE	43 N	Aug 79
RESTRICTION OF USR RESIDENCY WHEN RUNNING IN FOREGROUND	44 N	Aug 79
NOTES ON PERFORMANCE PATCHES NO. 4a, NO. 4b, NO. 4c	45 N	Aug 79
MAXIMUM ARRAY SUBSCRIPT SIZE	46 N	Aug 79
ASSEMBLING SOURCE FILES (SOURCE LICENSE HOLDERS ONLY)	47 M	Sep 79
USE OF SYS (1,n) FUNCTION WHEN ',n' IS OMITTED	48 M	Sep 79
DISABLING CR/LF USING TTYSET - PATCH P	49 M	Dec 79
HANDLER FETCH ERROR MAY LEAD TO MONITOR FAULT - PATCH Q	50 M	Jan 80

Component	Sequence	Mon/Yr

PDL/RT-11 V1B

CLARIFICATION OF SEARCH FAILURE IN SUBROUTINE FIND	01 N	Jul 78
FIND SUBROUTINE	02 R	Jul 78
PATCHES TO PDL	03 M	Jul 78
SUBROUTINE QKGT	04 M	Jul 78
PDL SUBROUTINE 'RDAA'	05 M	Sep 78
PDL PEAK ALGORITHM WILL NOT RECOGNIZE VALID PEAKS	06 M	Sep 78

PEAK-11 V1

"MREPRT" AND "REPRT" GET CONFUSED	01 M	Aug 78

REMOTE/RT-11 V1

SCHEDULER DOES NOT PROPERLY SET PROCESSOR PRIORITY	01 M	May 76
NOEDIT- 0 HALTS	02 M	May 76
NUSERS=1 STAYS IN A FILE MESSAGE LOOP	03 M	May 76
INCORRECT SWAP AREA ALLOCATION FOR FOUR OR MORE USERS	04 M	May 76
REBOOT FROM SATELLITE DURING EDIT HANGS HOST	05 M	Jun 76
HARD ERROR ON LOOKUP IS FATAL	06 M	Jun 76
SECONDARY MODE PROGRAM LOAD FEATURE NOT COMPLETELY FUNCTIONAL	07 M	Jun 76
ONE SECOND TIMER FOR LINE TIMEOUTS IS SET INCORRECTLY	08 M	Aug 76
LINE FEEDS MAY CAUSE SYSTEM ERRORS--ASSEMBLY ERROR WITH DIAL AND NODDC	09 M	Aug 76
PROPER GENERATION OF REMOTE IS DEPENDENT ON MODULE ORDER	10 M	Aug 76
ASCII CODES 173 AND 174 DO NOT PRINT	11 M	Aug 76
IMPROPER FILLER HANDLING FOR VT05	12 O	Aug 76
SYSTEM CRASHES IF RUN IN FOREGROUND WITHOUT /N	13 O	Aug 76
"UNSAVE" COMMAND CAUSES SYSTEM ERRORS	14 M	Dec 76
FLET WILL REMOVE MORE THAN ONE USER FROM THE WAIT QUEUE	15 M	Dec 76
STACK FOR USER THREE IMPROPERLY SET	16 O	Dec 76
SECONDARY MODE LOADS DO NOT OPERATE PROPERLY	17 M	Jan 77
@START COMMAND GIVEN ON TERMINAL WITHOUT SATELLITE CAUSES CRASH	18 O	Jan 77
"RTSIM" DOES NOT SUPPORT 50 Hz LINE CLOCK	19 O	Jan 77
CHANNEL ACTIVE ERROR	20 M	Mar 77
THREE WORDS LOST ON DOWNLINE LOAD	21 M	Mar 77
CSISPC NOT PROPERLY SIMULATED	22 M	May 77
EXCEEDING CHARACTERS PER LINE LIMIT	23 M	Oct 77
UNASSIGNED	24	XXX XX
@RE IN THE SATELLITE DOES NOT WORK	25 R	Mar 78
"HANG" CONDITIONS	26 R	Apr 78
UANSSIGNED	27	XXX XX
USING KG-11 CRC CALCULATOR	28 M	Aug 78
PASTE CAUSES LINE DUPLICATION	29 M	Aug 78
"DAISY CHAIN" ARRANGEMENT IN RTSIM.MAC	30 M	Aug 78
OPTIONAL RMON IS OMITTED FROM RTS1M BY DEFINING NORMON=0	31 M	Oct 78
DL-11 ERROR AND CRC ERROR IN HOST	32 M	Oct 78

RT-11 V3

DOCUMENTATION

TYPOGRAPHICAL ERRORS	01 N	Mar 78
ERROR IN FOREGROUND/BACKGROUND DEMONSTRATION	02 M	Aug 78
THE /LIST OPTION FOR THE DIBOL, FORTRAN, AND MACRO KEYBOARD MONITOR COMMANDS	03 M	Nov 78

EDIT

EDIT DOES NOT OPERATE CORRECTLY UNDER XM MONITOR	01 M	Mar 78

MACRO

.NARG FAILS WHEN AUTOMATIC LABEL GENERATION IS USED	01 M	Apr 78

MISCELLANEOUS

GETSTR AND PUTSTR ROUTINES FOR IN-LINE CODE	01 M	Jun 78
ERROR IN THE CONCAT ROUTINE	02 M	Jun 78
ERROR IN MTATCH ROUTINE	03 M	Nov 78
ODD RING BUFFER SIZES CAUSE ASSEMBLY ERRORS	04 R	Jun 79

Component	Sequence	Mon/Yr
MONITOR		
INCORRECT IDENTIFIER IN .TWAIT REQUEST CAUSES PROBLEMS	01 M	Mar 78
.CHAIN, .EXIT FROM VIRTUAL JOB; USR MOVING INTO PAR1 AREA	02 M	Apr 78
PATCH TO INTERRUPT EXIT ROUTINE	03 M	Apr 78
IMPROPER HANDLING OF THE KW11-P CLOCK	04 M	May 78
SPECIFYING 50-CYCLE CLOCK SUPPORT DURING SYSGEN OPERATIONS	05 M	Jun 78
EDITORS AND V3B MONITORS	06 M	Jun 78
TYPING NON-ASCII FILES TO CONSOLE AFTER ISSUING A GTON HANGS THE SYSTEM	07 M	Jun 78
LINK/FRUN FAILS WHEN PROGRAM IS OVERLAYED AND USES LIBRARIES	08 M	Jul 78
MULTITERMINAL CORRECTIONS	09 M	Aug 78
PATCH TO XM ADDRESS CHECKING	10 M	Aug 78
FIXES FOR TWO FB/XM PROBLEMS	11 M	Aug 78
TERMINATING CONSOLE OUTPUT	12 M	Aug 78
ISSUING SEEKS TO DX HANDLER IN XM CAUSES RANDOM SYSTEM FAILURES	13 M	Oct 78
CERTAIN EXTENDED MEMORY REQUESTS CANNOT BE ISSUED FROM BOTH MAINLINE CODE AND COMPLETION ROUTINES	14 M	Oct 78
THE "RUN" AND "GET" MONITOR COMMANDS DO NOT CORRECTLY LOAD THE PORTION OF A PROGRAM THAT OVERLAYS KMON	15 M	Oct 78
DX SJ MONITOR BOOTSTRAP CORRECTIONS	16 O	Oct 78
TYPING CTRL/O TO THE CONSOLE TERMINAL SOMETIMES CRASHES	17 M	Nov 78
LINK CAUSES ODD MONITOR ADDRESS TRAP	18 M	Nov 78
CHAINING FROM A VIRTUAL JOB AND RELATED PROBLEMS	19 M	Dec 78
DIRECTORY CORRUPTION	20 M	Dec 78
FIXES FOR FB/XM PROBLEM IN V03.02	21 M	Apr 79
CORRECTION TO "DIRECTORY CORRUPTION" PATCH	22 M	May 79
FLOPPY SYSGEN WITH KW11-P CLOCK	23 M	May 79
INPUT FILE LOST WHEN USING CSIGEN	24 M	Jun 79
SOURCES		
UNRESOLVED DIFFERENCES IN DEMOX1.MAC	01 M	Aug 78
DISTRIBUTED MAGTAPE HANDLER CORRECTIONS	02 M	Sep 78
MAGTAPE XM AND FSM CORRECTIONS	03 M	May 79
SYSTEM HANDLERS		
DM HANDLER CORRECTIONS	01 M	Oct 78
DM SYSTEM HANDLERS CORRECTIONS	02 M	Dec 78
DM HANDLER ERROR HANDLING CORRECTIONS	03 M	Jan 79
DM CTO AND SPFUN 376 CORRECTIONS	04 M	May 79
UTILITIES		
DUP DEFAULT FILE SIZE AND NULL FILE TYPES ARE INCORRECT	01 M	Mar 78
DIR MAY INCORRECTLY LIST DIRECTORIES OF MAGTAPES	02 M	Mar 78
/L OPTION TO PIP MAY CUASE SYSTEM CRASH	03 M	Mar 78
LINK OUTPUT INVALID IF OBJ HAS AN EMPTY GSD RECORD	04 M	Mar 78
PAT GIVES FATAL ERROR IF OBJ HAS AN EMPTY RECORD	05 M	Apr 78
UNASSIGNED	06	XXX XX
EDIT VT11 DISPLAY FUNCTIONS WILL NOT OPERATE UNDER XM MONITOR	07 M/R	Apr 78
TRANSFERS IN INTERCHANGE FORMAT WHEN NO SYSTEM DATE IS GIVEN	08 M	Jun 78
DUP SCAN RATE FOR FLOPPY	09 M	Jun 78
DUP /I AND /W SWITCHES DO NOT WORK PROPERLY	10 M	Jun 78
LINK/FRUN FAILS WHEN PROGRAM IS OVERLAYED AND USES LIBRARIES	11 M	Jul 78
DUP DOES NOT DIFFERENTIATE BETWEEN DELETED .BAD FILES AND PERMANENT ONES	12 M	Jul 78
ERRORS IN FILEX INTERCHANGE FORMAT	13 M	Jul 78
LINK PRODUCES INCORRECT .LDA FILES	14 M	Sep 78
DUP DOES NOT DETECT END OF SEGMENT IF IT IS FIRST ENTRY IN A DIRECTORY SEGMENT DURING A SQUEEZE OPERATION	15 M	Oct 78
LIBR CLEARING OF LOCATION ZERO	16 M	Oct 78
LINK ERROR IN PSECTS MOVED TO ROOT	17 M	Oct 78
PIP ERRONEOUSLY DELETES FILES	18 M	Oct 78
LIBR BLOCK BOUNDARY PROBLEM	19 M	Dec 78
LINK CAN CAUSE TRAP TO 4	20 M	Feb 79
CORRECTIONS TO FILEX	21 M	May 79
DIR CORRECTIONS	22 M	Nov 79
BAD BLOCK REPLACEMENT ON RK06s	23 N	Oct 79
WILD CARD MAGTAPE COPY ERROR PROCESSING CORRECTION	24 M	Oct 79

Component	Sequence	Mon/Yr

RT-11 V3B

DOCUMENTATION

ERROR IN FOREGROUND/BACKGROUND DEMONSTRATION	01 M	Aug 78
THE /LIST OPTION FOR THE DIBOL, FORTRAN, AND MACRO KEYBOARD MONITOR COMMANDS	02 M	Nov 78
UPDATE PAGES	03 N	Dec 78
RT-11 SOFTWARE SUPPORT DOCUMENTATION	04 M	Feb 79
SUMMARY OF UPDATES FOR RT-11 VO3B DOCUMENTATION	05 M	Feb 79
NEW DEVICE RELEASE DOCUMENTATION, RT-11 VO3B	06 N	Jun 79
.FORK AND .SYNCH BLOCK DOCUMENTATION	07 N	Jul 79
THE DEVICE TIME-OUT FEATURE	08 N	Sep 79
CORRECTION OF ERROR RETURNS IN .SYNCH CALL	09 M	Aug 79
EXAMPLE CODE IN .FORK DOCUMENTATION IS INCORRECT	10 N	Aug 79
EXTENDED MEMORY RESTRICTIONS	11 N	Dec 79
NOTES ON .MFPS/ .MTPS PROGRAMMED REQUEST	12 N	Apr 80

MISCELLANEOUS

ERRORS IN THE SYSGEN CONDITIONAL FILE	01 M	Jul 78
ERRORS IN MTATCH ROUTINE	02 M	Nov 78
ODD RING BUFFER SIZES CAUSE ASSEMBLY ERRORS	03 R	Jun 79
INCORRECT NULL HANDLER DEVICE IDENTIFIER	04 M	Jun 79
GENERATING A SINGLE JOB MONITOR MAY CAUSE AN UNDEFINED GLOBAL	05 M	Aug 79
INCORRECT DEVICE IDENTIFIER FOR PC11	06 M	Sep 79
ERROR IN MTIN AND MTOUT ROUTINES	07 M	Sep 79
HIGH SPEED RING BUFFER PROBLEM ON SYSTEMS WITH ONE DL11	08 M	Jan 80

MONITOR

SOURCE PATCHING PROCEDURES FOR V3B	01 M	Aug 78
MULTITERMINAL CORRECTIONS	02 M	Aug 78
SINGLE JOB TIMER SUPPORT CORRECTIONS	03 M	Aug 78
FIXES FOR TWO FB/XM PROBLEMS IN VP3B	04 M	Aug 78
TERMINATING CONSOLE OUTPUT	05 M	Aug 78
EDITORS AND VO3B MONITORS	06 O	Aug 78
SEEK IN RK DRIVER	07 M	Aug 78
RL01 CONTROLLER VECTOR AT 160	08 M	Aug 78
FPU EXCEPTION HANDLING IN XM MONITOR	09 M	Sep 78
TWO EXTENDED MEMORY MONITOR PROBLEMS	10 M	Oct 78
TYPING CTRL/O TO THE CONSOLE TERMINAL SOMETIMES CRASHES RT-11	11 M	Oct 78
DX SJ MONITOR BOOTSTRAP CORRECTIONS	12 O	Oct 78
THE EDIT AND HELP MONITOR COMMANDS FAIL AFTER A VIRTUAL JOB HAS RUN	13 M	Nov 78
DIRECTORY CORRUPTION AND .UNPROTECT CORRECTIONS	14 M	Jan 79
FB AND XM MONITOR CLOCK SUPPORT	15 M	Apr 79
CHANGING CLOCK RATE ON GENERATED MONITORS	16 M	Apr 79
MULTI-TERMINAL CORRECTIONS TO DECREASE INTERRUPT LATENCY	17 M	Apr 79
FIXES FOR FB/XM PROBLEM IN VO3B.00	18 M	Apr 79
FLOPPY SYSGEN WITH KW11-P CLOCK	19 M	May 79
DISTRIBUTED FB MONITOR CLOCK SUPPORT	20 M	May 79
OPTIONAL PATCH TO IMPROVE PERFORMANCE ON PDP-11/03 SYSTEMS	21 O	May 79
DISTRIBUTED PD AND DD FB MONITORS CLOCK SUPPORT	22 M	May 79
OPTIONAL PATCH TO IMPROVE PERFORMANCE ON PDP-11/03 AND PDT SYSTEMS FOR DD AND PD FB MONITORS	23 O	May 79
INPUT FILE LOST WHEN USING CSIGEN	24 M	Jun 79
NON-STANDARD VECTOR ADDRESSES FOR RX01 AND RX02 SECOND CONTROLLER	25 M	Nov 79
ABORT DURING COMPLETION CAUSES SYSTEM FAILURES	26 M	Nov 79
.ELRG CAN CAUSE THE SYSTEM TO CRASH	27 M	Sep 79
CORRECTION TO BOOTSTRAP TO RECOGNIZE LSI-11/23 PROCESSOR	28 M	Oct 79
FPU SAVE AREA IN XM MONITOR	29 M	Dec 79
BACKGROUND JOB MAY TRAP WHEN FOREGROUND ISSUES .SYNCH FROM INTERRUPT ROUTINE	30 M	Dec 79
PROBLEM WHEN FOREGROUND AND BACKGROUND JOB USE CSI AT SAME TIME	31 M	Mar 80
SYSTEM GENERATED SJ MONITOR WITH ESCAPE SEQUENCE SUPPORT	32 M	Apr 80
BREAKPOINT TRAP PROCESSOR STATUS WORD CORRUPTION	33 M	Apr 80

SOURCES

UNRESOLVED DIFFERENCES IN DEMOX1.MAC	01 M	Jul 78
ISSUING SEEKS TO DX HANDLER IN XM CAUSES RANDOM SYSTEM FAILURES	02 M	Sep 78
DISTRIBUTED MAGTAPE HANDLER CORRECTIONS	03 M	Sep 78
DY HANDLER DOUBLE DENSITY ONLY SUPPORT	04 M	Apr 79
DL QUEUE ELEMENT AND XM ZERO FILL CORRECTIONS	05 M	Apr 79
MAGTAPE XM AND FSM CORRECTIONS	06 M	May 79
DL HANDLER SEEK AND UNIT CORRECTIONS	07 M	Aug 79
MAGTAPE ABORT ENTRY CORRECTION	08 M	Sep 79
MAGTAPE ABORT ENTRY CORRECTION IN XM	09 M	Dec 79

Component	Sequence	Mon/Yr
DL HANDLER SEEK CORRECTION	10 M	Jan 80
FILE SEQUENCE NUMBER SEARCH CORRECTION	11 M	Feb 80
HARD ERROR RECOVERY IN DM HANDLER	12 M	Mar 80
FSM DOES NOT PROCESS ERRORS CORRECTLY IN XM	13 M	Apr 80
RL01/RL02 HANDLER CORRECTIONS	14 M	Apr 80
SYSTEM HANDLERS		
RL01 HANDLER CORRECTIONS	01 M	Sep 78
ISSUING A SEEK TO THE DY HANDLER CAUSES THE SYSTEM TO CRASH	02 M	Oct 78
DM HANDLER CORRECTIONS	03 M	Oct 78
DM SYSTEM HANDLERS CORRECTIONS	04 M	Dec 78
DY HANDLER SPFUN CORRECTION	05 M	Dec 78
DM HANDLER ERROR HANDLING CORRECTIONS	06 M	Jan 79
RL01 PATCH CLARIFICATION	07 N	Jan 79
DM CTO AND SPFUN 376 CORRECTIONS	08 M	May 79
BATCH INCORRECTLY LOGS TERMINAL OUTPUT	09 M	Apr 80
IMPROPERLY CHECKED INPUT CAUSES UNPREDICTABLE RESULTS	10 M	Apr 80
UTILITIES		
ERRORS IN FILEX INTERCHANGE FORMAT	01 M	Jul 78
LINK PRODUCES INCORRECT .LDA FILES	02 M	Sep 78
LIBR CLEARING OF LOCATION ZERO	03 M	Oct 78
LINK ERROR IN PSECTS MOVED TO ROOT	04 M	Oct 78
DUP DOES NOT DETECT END OF SEGMENT	05 M	Oct 78
COPY/DEVICE FAILS ON DISK TO MAGTAPE	06 M	Oct 78
LINK CAUSES MONITOR ODD ADDRESS TRAP	07 M	Nov 78
LIBR BLOCK BOUNDARY PROBLEM	08 M	Jan 79
EDIT ESCAPE CODE CORRECTION	09 O	Dec 78
ERROR IN ODT	10 M	Feb 79
ERROR IN EDIT	11 M	Feb 79
LINK CAN CAUSE TRAP TO 4	12 M	Feb 79
CORRECTIONS AND ADDITIONS TO FILEX	13 M	May 79
RESORC DISPLAYS STATUS OF FIRST 14 TERMINALS	15 M	Jun 79
LIBR /U SWITCH PROBLEM	16 M	Aug 79
IMPORTANT RESTRICTIONS FOR SQUEEZE OPERATIONS	17 M	Aug 79
DIR PROBLEMS	18 M	Oct 79
BAD BLOCK REPLACEMENT ON RK06s	19 N	Oct 79
WILD CARD MAGTAPE COPY ERROR PROCESSING CORRECTION	20 M	Oct 79
PROBLEM WITH PSECTS MOVED TO ROOT DURING LIBRARY PASS	21 M	Jan 80
PIP PROBLEMS	22 M	Feb 80
DIR PROBLEM	23 M	Feb 80
DUMPING DISK FILES WITH MAGTAPE HANDLER LOADED	24 M	Mar 80
BAD BLOCK REPLACEMENT ON RL01s	25 M	Apr 80
MDUP AND RL01s	26 M	Apr 80
CORRECTION TO PDT-11/150 SUPPORT IN FILEX	27 M	Apr 80
PROBLEM WITH DUP ERRORS WHEN /W OPTION USED	28 M	Apr 80
INSUFFICIENT DIRECTORY SPACE ON NON-SYSTEM FLOPPY	29 M	Apr 80

RT-11/2780 V2

Component	Sequence	Mon/Yr
CORRECTIONS TO 2780 PACKAGE	01	Sep 77
RUNNING 2780 ON RT-11 V3	02	Nov 77
PATCHING THE 2780 IN RT-11 V3	03 M	Jan 79
CHECK FOR ZERO LENGTH RECORD	04 M	Jan 79
RESTRICTION OF THE CONSOLE AS AN INPUT/OUTPUT DEVICE	05 R	Jan 79

INTRODUCTION

DECUS, the Digital Equipment Computer Users Society, was established in March of 1961 to advance the effective use of DIGITAL computers. It is a not-for-profit users group supported in part by Digital Equipment Corporation.

OBJECTIVES

The objectives of the Society are to advance the effective utilization of computers, computer peripheral equipment, and software manufactured and marketed by Digital Equipment Corporation, by promoting the interchange of information concerning their uses; advance the art of computation through mutual education and exchange of ideas and information; establish standards and provide channels to facilitate the exchange of computer programs among DECUS members; provide feedback to the computer industry on equipment and software needs; and to reduce the duplication of development efforts.

ORGANIZATION

The Digital Equipment Computer Users Society is a federation of chapters, whose membership is determined by geographic location. The membership is organized to meet the specific needs of members in its area such as Symposia and Special User Group activities. The DECUS chapters are:

- *AUSTRALIAN CHAPTER (Australia, Indonesia, Malaysia, New Zealand, PNG, Singapore,)*
- *EUROPEAN CHAPTER (Europe, Middle East, North Africa, Russia)*
- *CANADIAN CHAPTER (Canada)*
- *U.S. CHAPTER (U.S. and All Others)*

ACTIVITIES

1. SYMPOSIA

Symposia are sponsored throughout the year by each of the DECUS Chapters and Regional/National User Groups. These meetings provide an opportunity for users of DIGITAL computers to meet with other users and with DIGITAL management, engineers, and customer service representatives. They provide a forum for users to exchange information on technique and approaches to issues of common interest and to provide feedback to DIGITAL on existing and future products and services. Sessions at the symposia include user-driven workshops, tutorials, product panels, as well as application/system-specific presentations.

The technical papers and presentations from each symposium are published as DECUS Proceedings.

2. SPECIAL USER GROUPS

DECUS encourages subgrouping of users with common interests and/or geographical proximity.

Special Interest Groups (SIGs) promote the interchange of specialized information for application areas, subject areas (such as languages), or specific operating systems. A group of users must petition the Chapter Executive Board for recognition as a Special Interest Group. The group must have a chairman, a DIGITAL representative, and its organization must meet the guidelines of the Chapter Executive Board.

Geographic subgroupings are formed to service the DECUS members within a specific area although they may also be based on interests as in SIGs. There are four types of geographic subgroupings:

1. *LUGs — Local User Groups*
2. *NUGs — National User Groups*
3. *RUGS — Regional User Groups*
4. *SLUGs — Student Local User Groups*

3. STANDARDS

DECUS promotes user activity in reviewing DIGITAL standards. Users are given the opportunity to comment on DIGITAL standards prior to their finalization.

4. PROGRAM LIBRARY

One of the major activities of the users group is the DECUS Program Library. The Library contains programs written and submitted by users and is maintained and operated separate from the Digital Software Distribution Center. A wide range of software is available, including languages, editors, numerical functions, utilities, display routines, and various other types of application software.

MEMBERSHIP

Membership in DECUS is voluntary and is not subject to membership fee. Members are invited to take an active interest in the Society by contributing to the Program Library, to newsletters, and by participating in its Special User Groups and Symposia. There are two types of membership: Installation Membership and Association Membership.

INSTALLATION MEMBERSHIP

An organization, institution, or individual that has purchased, leased or has on order a computer manufactured by Digital Equipment Corporation is eligible for Installation Membership in DECUS.

An Installation should appoint a person immediately concerned with the use of the computer to act as delegate to the Society. A delegate receives all official communications and has a vote on DECUS policies and elections. An organization or company is eligible for as many voting delegates as it has DIGITAL computers. Each delegate must file an application for Installation Membership.

ASSOCIATE MEMBERSHIP

Any person who is not an appointed Installation Delegate, who has a bona fide interest in DECUS is eligible for Associate Membership.

Membership status is acquired by submitting the enclosed application to the appropriate Chapter Executive Secretary for approval by the Chapter Executive Board.

To obtain a membership form for DECUS, please return this form to the appropriate Chapter office listed below.

NAME:_____

       (First)   (Last/Family Name)

COMPANY: (INSTALLATION):_____

ADDRESS 1: _____

2: _____

3: _____

4: _____

   (City Town,State Province, and Zip Postal Code)

COUNTRY: _____

TELEPHONE: _____TELEX_____

I obtained this form from _____

DECUS OFFICES

DECUS Australia	DECUS Canada	DECUS Europe	DECUS U.S. and
P.O. Box 384	P.O. Box 11500	P.O. Box 510	Office of the Executive Director
Chatswood	Ottawa, Ontario K2H 8K8	12, avenue des Morgines	One Iron Way
NSW 2067	Canada	CH-1213 Petit-Lancy 1/GE	Marlboro, Massachusetts 01752
Australia		Switzerland	USA

DECEMBER 1979

SOFTWARE PROBLEMS OR ENHANCEMENTS

Questions, problems, and enhancements to DIGITAL software should be reported on a Software Performance Report (SPR) form and mailed to the SPR Center at one of the following Digital Offices: *(SPR forms are available from the SPR Center).*

Areas Covered	SPR Center
United States; remainder of Far East, Middle East, Africa Latin America	Administrative Services Group, SWS P.O. Box F Maynard, Ma 01754
Canada	Digital Equipment Canada P.O. Box 11500 Ottawa, Ontario Canada K2H 8K8
United Kingdom, Bahraine, Egypt, Iraq, Jordan, Kuwait, Lebanon, Libya, Qatar, Oman, Saudi Arabia, Syria, United Arab Emirates, Yemen, Arab Republic.	Digital Equipment Corp. LTD Fountain House Butts Centre GB - Reading RG17QN England
Australia-Melbourne	Digital Equipment Aust. PTY. LTD 60 Park Street So. Melbourne Victoria Australia 3205
Australia-Sydney	Digital Equipment Aust. PTY. LTD 123 125 Willoughby Rd. P. O. Box 491 Crows Nest NSW Australia 2065
Brazil	Digital Equipment Comercio Ind. Rua Batatais 429 Esq AL Campin 01423 Jardim Paulista Sao Paulo 0100 Brazil
Caribbean	De Latin America P. O. Box 11038 Fernando Juncos Sta. Santurce PR 00910
France	Digital Equipment France 18, rue Saarinen France Silic 225 F - 94528 Rungis - Cedex France
Italy	Digital Equipment S.P.A. Viale Fulvio Testi 117 I-20092 Cinisillo Balsamo Milan, Italy

Areas Covered	SPR Center
Japan	Digital Equipment Corp. INTL 3rd Floor Kowa Bldg. 8-7 Sanban Cho Chiyoda Ku Tokyo 102 Japan
New Zealand	Digital Equipment N.Z. LTD P.O. Box 17093 Greenlane, Auckland 5, New Zealand
Belgium, Holland, Luxemburg	Digital Equipment B.V. KAAP Horndreef 38 NL - Utrecht/Overvecht Holland
Sweden	Digital Equipment Corp. AB Englundavägen 7 S-171 24 Solna, Sweden
Denmark	Digital Equipment Corp. APS Kristineberg 3 DK-2100 Copenhagen Ø Denmark
Finland	Digital Equipment Corp. OY PL16 SF - 02201 ESPOO 20 Finland
Norway	Digital Equipment Corp. A/S Pottenmakerveien 8 N - Oslo 5 Norway
Austria, East Germany, West Germany, Poland, Hungary, Rumania, Czechoslovakia, Russia, Bulgaria	Digital Equipment Corp. GMBH Wallsteinplatz 2 D - 8 Munich 40 West Germany
Israël	DECSYS Computers LTD. 4, Yirmiyahou Str. P.O. Box 6359 IL - Tel-Aviv 63505 Israël

Areas Covered	SPR Center
Greece, Portugal, Spain, Switzerland, Yugoslavia & Sina (Morocco, Algeria, Tunisia, Cyprus, Turkey, Malta)	Digital Equipment Corp. SA 9, route des Jeunes 1211 Geneva 26 Switzerland