RT-11

March 1982

AD-C740C-25

# THE
# SOFTWARE
# DISPATCH

**d i g i t a l**

# RT-11 SOFTWARE DISPATCH

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

## PRODUCTS SUPPORTED in the RT-11 SOFTWARE DISPATCH

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

## DISTRIBUTION

The RT-11 Software Dispatch is directed to one software contact for each software product. No mailing will be made to addresses without a software contact name. **Address change requests should be sent to the nearest DIGITAL field office. Include the new address and mailing label from the most recently received publication.**

Software binary and sources are provided under licenses only. The standard Terms and Conditions, OEM Agreement, and/or Quantity Discount Agreement contain the licenses for all binaries other than DECsystem-10.

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# PRODUCT AVAILABILITY DATES - RT-11

## MARCH 1982

The following are dates products have become available. Customers who are in warranty or have a Software Product Service contract during the month the product became available are eligible to receive the update. Customers who are eligible and have not received the update should contact their local Digital office.

Autopatch is distributed to Software Product Service Basic contract customers and to Self-Maintenance contract customers who have selected this option. Autopatch will be installed for DECsupport contract customers as part of their Preventive Maintenance.

| PRODUCT | VERSION | AVAILABLE |
|---------|---------|-----------|
| LSP-11 | 1.2 | NOV 81 |
| SSP-11 | 1.3 | NOV 81 |
| RT-11 AUTOPATCH | D | NOV 81 |

# 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.

MUBASIC V2.1 MAINTENANCE RELEASE AVAILABLE (WA)


MUBASIC/RT-11 Version 2.1 is a maintenance update of the  software  to
incorporate  a  large number of source code patches and to enhance the
documentation.  This is a repackaging update effort only  and  no  new
features  or  functionality  have  been  added.   However,  some minor
performance  enhancements  were  made  by  the  engineers  during  the
project.

MUBASIC/RT11 is the multiuser version of BASIC-11 which  supports  one
to  four  users on PDP-11/Ø3, LSI-11, or PDT-11/15Ø systems.  For this
release, the  Installation  Procedures  and  the  Release  Notes  were
rewritten  to  assist  field personnel during installation.  All known
patches have been incorporrated as source changes which  makes  V2.1
slightly  smaller  than  a  fully  patched  V2.Ø.  In addition, future
patches to MUBASIC V2.1 will be included on RT-11 AUTOPATCH kits.

TRANSFER STUDY IN SELECTIVE STEP MODE (SPR 11-42930 KMW)

Transferring studies from magnetic tape in selective step mode requires
the user to verify each individual study transfer after having already
selected the index numbers of the studies to be transferred.  This
feature patch will allow the user to bypass verification of each study
transfer.  All studies selected will be copied from the magnetic tape
without further user input.  Note!  the feature patch will disable the
R (rewind and start again) command while in the selective step mode.

1.  The following is a feature patch to the TRNFER.SAV utility program.
    Note!  Since patching the distribution medium is not recommemded,
    the patch must be applied to a copy of the distribution.

    DO NOT PATCH THE DISTRIBUTION DISK


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

    Using an editor, create the file, TRNFER.001, as follows.
    Replace 'DK:' in the patch below with the name of the device
    that contains the file, TRNFER.SAV.


```
R SIPP
DK:TRNFER.SAV/C
0
14300
14
420
^Z                              (Up-Arrow/Z)
22
12700
6
104432
5767
3630
1010
12701
40363
10100
104420
5767
3620
1034
407
^Z                              (Up-Arrow/Z)
60
21123
^Z                              (Up-Arrow/Z)
64
12700
```

```
    24404
    104420
    403
    ^Y                          (Up-Arrow/Y)
    11644
    ^C
```

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

```
    @TRNFER.001
```

GAMMA-11 DOCUMENTATION CORRECTIONS AND ADDITIONS (SPR 11-42848 KMW)


This article describes corrections and additions to the GAMMA-11
SYSTEM REFERENCE MANUAL.  It is intended to supplement the material
contained in Table 2-2 and Table 3-4.

In Table 2-2 (Save Area Descriptor Block) on page 2-12, and Table 3-4
(Save Area Descriptor Block) on page 3-8, the description of the
variable STYPE is listed as follows:

                STYPE           Data type indicator (in low byte)
                                        0 = no data in save area
                                        1 = matrix data
                                        200 = dynamic curves


The value '200' in that description refers to an octal 200.  When
accessing this data with the subroutines GSVG or GSVP, the decimal
value 128 is used.

The description of the variable STYPE should read:


                STYPE           Data type indicator (in low byte)
                                        0 = no data in save area
                                        1 = matrix data
                                200 (octal) = dynamic curves
                                128 (decimal) = dynamic curves

ERRORS IN THE BASIC SUPPORT ROUTINES GPLR AND GPF
(SPR 11-42842,11-42849 KMW)


The following errors have been corrected in the BASIC support
subroutines:

o       The subroutine, GPLR, returns a time mark for each
        list mode element that is a multiple of 256(decimal),
        regardless of the actual list mode data contained in
        that element.

o       When the subroutine, GPF, closes a patient study,
        it fails to clear the read only flag set by GPFR.
        Subsequent attempts to write to a save area file
        with the routine GSAW will prove unsuccessful.


1.      The following is a required patch to the BASIC.SAV program
        (previously modified in Seq 49.12.1).  It must be installed
        in all copies of the program.

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

                DO NOT PATCH THE DISTRIBUTION DISK

2.      This patch is installed using SIPP, the Save Image Patching
        Program.  First, ensure that a copy of the file BASIC.SAV is on
        a mounted volume.  Using an editor, create the file, BASIC.002
        with the contents given below.  Replace 'DK:' in the patch below
        with the name of the device that contains the program file.


        RUN SIPP
        DK:BASIC.SAV/C
        0
        6000
        32
        3004
        1401
        455
        5701
        1453
        12703
        15000
        20023
        3042
        2402
        20113

```
        ^Z                      (UP-ARROW/Z)
        62
        5301
        10146
        42701
        377
        301
        42700
        177400
        300
        50001
        12700
        14756
        61001
        10167
        6146
        4767
        174530
        103404
        4767
        174512
        ^Z                      (UP-ARROW/Z)
        132
        174536
        42716
        177400
        6316
        12702
        15432
        62602
        402
        5037
        14234
        ^Z                      (UP-ARROW/Z)
        430
        650
        ^Y                      (UP-ARROW/Y)
        076577
        ^C                      (UP-ARROW/C)
```


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

        @BASIC.002

4.      Save the new version of BASIC.SAV on a backup volume.

ERROR IN FORTRAN SUPPORT SUBROUTINE GPMR (KMW)


**REPLACEMENT ARTICLE**

NOTE:  This patch replaces the one published in the RT-11 Software
Dispatch, December 1981.  The corrections made to the original article
have been marked with a change bar (I).


If a Fortran program uses the subroutine GPMR to read values from
the same frame in different studies the same value is returned
for all of the studies.

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

                    DO NOT USE THE DISTRIBUTION DISK

1.      Create the patch file FOR001.PAT with the contents given
        below:

```
                .TITLE F4BAS BASIC AND FORTRAN SUPPORT
                .IDENT   /V3.1/
        ;
        BEGIN=.
        ;
        .=BEGIN+1740                                            I
                JSR PC,PATCH1
        ;
                .PSECT $$PAT1
        PATCH1:
                MOV #14.,R3                                     I
                MOV #-1,OLDBLK
                RTS PC
        ;
                .CSECT IMPUR1                                   I
        ;
        OLDBLK =.+364
        ;
                .END
```

2.      Assemble the file using the command

        MAC FOR001.PAT

3.      Patch the object module using the command lines

        .R PAT
        *GMFOR1=GMFOR1/C:126063,FOR001/C:014473                 I
        *^C

                                11

If an error message is printed then an error has been made
in applying the patch and the procedure must be repeated
from step 1 above using a new copy of the file GMFOR1.OBJ
from the distribution disk.

4.      Re-link any Fortran programs which are linked with
        GMFOR1.OBJ.                                          |

ERRORS IN THE FORTRAN SUPPORT ROUTINES GPLR AND GPF
(SPR 11-42842,11-42849 KMW)

The following errors have been corrected in the FORTRAN support
subroutines:

o       The subroutine GPLR returns a time mark for each list mode
        element that is a multiple of 256(decimal), regardless of
        the actual list mode data contained in that element.

o       When the subroutine GPF closes a patient study, it fails to
        clear the read only flag set by GPFR.  Subsequent attempts
        to write to a save area file with the subroutine GSAW will
        prove unsuccessful.

1.      The following patch is a required patch to the module GMFOR1.OBJ
        (previously modified in Seq 49.13.1).  It must be installed in
        all copies of the module.

        NOTE:  Since patching the distribution medium in not recommended

        the patch must be installed every time you copy the module from
        the distribution medium.

            DO NOT PATCH THE DISTRIBUTION DISK

2.    To install the patch, first create a patch file for input to the
      PAT utility.  Using an editor, create the file FOR002.PAT with
      the contents given below:

```
              .TITLE F4BAS BASIC AND FORTRAN SUPPORT
              .IDENT   /V3.1/
      ;
      S=.
      ;
      .=S+1602
      2$:     JMP       PATCH2
              NOP
      .=S+1610
      RET:
      ;
      .=S+1656
              NOP
      ;
      .=S+2146
              JSR       PC,PATCH3
      ;
              .PSECT  $$PAT2
      PATCH2: DEC       R1
              MOV       R1,-(SP)
              BIC       #377,R1
              JMP       RET
      ;
      PATCH3: CLR       SAVE2
              CLR       RDONLY
              RTS       PC
      ;
              .CSECT  IMPUR1
      R=.
      RDONLY=R+332
      SAVE2=R+452
      ;
              .END
```

3.    Assemble the file using the command

      .MACRO FOR002.PAT

4.      Patch the object module using the following command lines:

        NOTE:   Make a copy of GMFOR1.OBJ before you patch in case
                an error occurs.

        .R PAT
        *GMFOR1=GMFOR1/C:135525,FOR002/C:020352

        If an error message is printed, then an error has been made
        in applying the patch.  The patching procedure must be repeated
        from step 1 above using a new copy of the module GMFOR1.OBJ
        (patched through Seq 49.13.1).

5.      Re-link any Fortran programs which are linked with the
        module, GMFOR1.OBJ.

RT-11 V4.0
CUMULATIVE INDEX
MARCH 1982

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 sub-
 sequent Autopatch Kits as well.  Note that Autopatch Kit "D" is the latest kit available from the SDC.

| Component | Autopatch Kit | Sequence | Mon/Yr |
|---|---|---|---|
| RT-11 V4.0 | | | |
| MONITOR PATCHES | | | |
| 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 | C | 1.1.16 M | Jun 81 |
| PRINT COMMAND RESTRICTION | | 1.1.17 R | Jul 81 |
| UPDATES TO MONITOR FILES | D | 1.1.18 M | Oct 81 |
| CORRECTIONS TO THE MONITOR | | 1.1.19 M | Jan 82 |

| Component | Autopatch Kit | Sequence | Mon/Yr |
|---|---|---|---|
| **DEVICE HANDLER SOURCES** | | | |
| **DEVICE HANDLER NOTES** | | | |
| RL02s AT REV. LEVEL "F" FAIL DURING RT-11 SYSGEN | | 6.1.1 N | Oct 80 |
| | | | |
| **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 | A | 6.5.1 M | Dec 80 |
| ERRORS ON RL01 DISK DRIVES AFTER DISK PACKS ARE CHANGED | B | 6.5.2 M | Jan 81 |
| | | | |
| **DM.MAC** | | | |
| ERRORS IN DM OFFSET POSITIONING AND ERROR LOGGING | A | 6.6.1 M | Jul 80 |
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| **DY.MAC** | | | |
| DELETED DATA MARK MAY BE LOST IF BUFFER STARTS ON PAR BOUNDARY | D | 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 | A | 6.13.1 M | Sep 80 |
| PROBLEMS WITH LS HANDLER | B | 6.13.2 M | Jan 81 |
| USING AN LA120 TERMINAL AS A LINE PRINTER WITH THE LS HANDLER | | 6.13.3 N | Jul 81 |
| SET LS NOHANG IS CURRENTLY INOPERATIVE | C | 6.13.4 M | Jul 81 |
| RACE CONDITION IN LS HANDLER | D | 6.13.5 M | Aug 81 |
| LS HANDLER SET "NOHANG" PROBLEM | | 6.13.6 M | Jan 82 |
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| **PD.MAC** | | | |
| CORRECTION TO PDT ERROR LOGGING SUPPORT | B | 6.16.1 M | Apr 81 |
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| **MAG TAPE HANDLERS** | | | |
| BUFFER CLEARING ON SHORT READ IN XM MONITOR | A | 6.20.1 M | Jul 80 |
| LINKING AN XM, NON-FILESTRUCTURED TS HANDLER GENERATES AN UNDEFINED GLOBAL | A | 6.20.2 M | Aug 80 |
| INCORRECT READ ERROR RECOVERY IN MT HANDLER | A | 6.20.3 M | Sep 80 |
| TS-11 DOES NOT RECOVER FROM SOFT ERROR ON WRITE EOF | C | 6.20.4 M | Jul 81 |
| | | | |
| **SYSTEM UTILITIES** | | | |
| **PIP.SAV** | | | |
| ERRORS IN PIP | A | 7.1.1 M | Sep 80 |
| COPY/PREDELETE COMMAND | | 7.1.2 N | Sep 80 |
| MATCHING FILE SPEECIFICATIONS ERRORS | B | 7.1.3 M | Feb 81 |
| COPY/BINARY/WAIT AND LOG HEADER PROBLEMS | B | 7.1.4 M | Apr 81 |
| COPY/PREDELETE AND COPY/NOREPLACE WORK INCORRECTLY WITH /WAIT | C | 7.1.5 M | Jun 81 |
| ERROR WITH RENAME/NOREPLACE | C | 7.1.6 M | Jul 81 |
| /POSITION:N SWITCH FOR MAGTAPE INPUT WORKS INCORRECTLY | | 7.1.7 M | Oct 81 |
| COPY/BINARY STOPS PROCESSING AFTER ENCOUNTERING AN OBJ LIBRARY FILE | | 7.1.8 M | Nov 81 |
| COPYING FILES TO UNINITIALIZED DISKS | | 7.1.9 N | Nov 81 |
| ALLOCATE AND DELETE WORK INCORRECTLY WITH COPY OPERATIONS | | 7.1.10 M | Feb 82 |
| | | | |
| **DUP.SAV** | | | |
| MISSING COLON IN BOOT XX CAUSES SYSTEM HALT | A | 7.2.1 M | Jul 80 |
| SQUEEZE CREATES <UNUSED> ENTRIES OF LENGTH ZERO BEFORE .BAD FILES | A | 7.2.2 M | Aug 80 |
| PROBLEMS WITH COPY/DEVICE AND INITIALIZE | A | 7.2.3 M | Dec 80 |
| BOOTSTRAPPING AN UNPATCHED MONITOR FROM A PATCHED SYSTEM | B | 7.2.4 N | Jan 81 |
| .SPFUN RETURN BUFFER PROCESSED INCORRECTLY FOR RK06/7 | B | 7.2.5 M | Jan 81 |
| USE OF INITIALIZE/RESTORE ON MEDIA SUPPORTING BAD BLOCK REPLACEMENT | | 7.2.6 N | May 81 |
| PROBLEMS WITH INIT/BAD AND COPY/DEVICE | C | 7.2.7 M | May 81 |
| PROBLEMS WITH INITIALIZE COMMAND | C | 7.2.8 M | Jun 81 |
| ATTEMPT TO RESTORE UNCLOSED TENTATIVE FILES FAILS | C | 7.2.9 M | Jul 81 |
| /V WITH NO DEVICE SPECIFICATION GIVES WRONG ERROR MESSAGE | D | 7.2.10 M | Sep 81 |
| OUTPUT ERROR DURING COPY/DEVICE TO MAGTAPE CAUSES SYSTEM ERROR | | 7.2.11 M | Oct 81 |
| USE OF COPY/DEV/FILE WITHOUT FILE SPECIFICATION | | 7.2.12 M | Nov 81 |

| Component | Autopatch Kit | Sequence | Mon/Yr |
|---|---|---|---|
| **DIR.SAV** | | | |
| DIR/OUT COMMAND PRODUCES DEVICE NOT ACTIVE MESSAGE | A | 7.3.1 M | Jul 80 |
| DIR/VOL GIVES ?MON-F-TRAP TO 4 | A | 7.3.2 M | Dec 80 |
| LOSS OF LAST PRINT CHARACTER IN DIRECTORY LISTING | D | 7.3.3 M | Sep 81 |
| | | | |
| **RESORC.SAV** | | | |
| RESORC MAY REPORT INCORRECT JOB NAMES ON A SHOW JOBS COMMAND | A | 7.5.1 M | Aug 80 |
| ADD CIS DETECTION CAPABILITY TO RESORC | B | 7.5.2 M | May 81 |
| PROBLEM WITH IDENTIFYING 11/23 PROCESSOR | D | 7.5.3 M | Sep 81 |
| | | | |
| **LINK.SAV** | | | |
| 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 | D | 7.9.6 M | Aug 81 |
| LINK UPGRADE | | 7.9.7 M | Nov 81 |
| LINK ERROR IN LIBRARY MODULE TRANSFER ADDRESS PROCESSING | | 7.9.8 M | Jan 82 |
| LINK LIBRARY MODULE PLACEMENT ERROR | | 7.9.9 M | Jan 82 |
| | | | |
| **LIBR.SAV** | | | |
| A LIBR COMMAND WITH NO FILE-SPEC CAN CAUSE A SYSTEM CRASH | A | 7.10.1 M | Jul 80 |
| LIBR ERRORS | C | 7.10.2 M | Jul 81 |
| LIBR CORRUPTS FORM LIBRARY DIRECTORY | C | 7.10.3 M | Jun 81 |
| LIBR ERROR IN GENERATING ENTRY POINT TABLE | | 7.10.4 M | Jan 82 |
| LIBR RESTRICTION | | 7.10.5 N | Jan 82 |
| | | | |
| **FILEX.SAV** | | | |
| FILEX WILDCARD TRANSFERS CAUSE MONITOR TRAP | A | 7.11.1 M | Aug 80 |
| FILEX CREATES ZERO FILLED INTERCHANGE RECORDS | A | 7.11.2 M | Sep 80 |
| SIZE CALCULATION PROBLEM IN FILEX | D | 7.11.3 M | Aug 81 |
| RECORDS DROPPED BY FILEX | D | 7.11.4 M | Sep 81 |
| | | | |
| **SRCCOM.SAV** | | | |
| COMPARING TWO FILES MAY CAUSE TRAP TO 4 | A | 7.12.1 M | Aug 80 |
| BLANK LINE COMPARISON FOR SLIDING MATCH | A | 7.12.2 M | Dec 80 |
| | | | |
| **BINCOM.SAV** | | | |
| BINCOM GENERATES ERRONEOUS ERROR MESSAGE | B | 7.13.1 M | Apr 81 |
| ERRONEOUS DOUBLE PRECISION CALCULATION IN BINCOM | C | 7.13.2 M | Jun 81 |
| BINCOM PLACES TAB CHARACTER AFTER OFFSET IN SIPP COMMAND FILE | | 7.13.3 M | Jan 82 |
| | | | |
| **DUMP.SAV** | | | |
| BLOCK NUMBERS OUTPUT FROM DUMP | D | 7.14.1 M | Aug 81 |
| | | | |
| **SLP.SAV** | | | |
| TERMINATION OF PATCHING SESSION WITH SLP FATAL ERRORS | A | 7.15.1 M | Nov 80 |
| SLP GENERATES FATAL ERROR TRAP | B | 7.15.2 M | Jan 81 |
| SLP ERROR | B | 7.15.3 M | Mar 81 |
| | | | |
| **SIPP.SAV** | | | |
| CORRUPTION OF MULTI-BLOCK LOG FILES | A | 7.16.1 M | Jul 80 |
| | | | |
| **PAT.SAV** | | | |
| USE OF THE PAT UTILITY WITH RT-11 V3B PATCHES | | 7.17.1 N+ | Mar 80 |
| | | | |
| **HELP.SAV** | | | |
| PROBLEMS WITH HELP UTILITY | A | 7.19.1 M | Nov 80 |
| | | | |
| **EDIT.SAV** | | | |
| EDIT MISHANDLES OUTPUT FILE FULL ERROR | B | 7.20.1 M | Nov 81 |

SYSTEM SUBROUTINE LIBRARY (SYSLIB)

| Component | Autopatch Kit | Sequence | Mon/Yr |
|---|---|---|---|
| **SYSLIB.OBJ** | | | |
| PATCH TO ICSI | A | 8.1.1 M | Oct 80 |
| IASIGN REDEFINITIONS | A | 8.1.2 M | Oct 80 |
| ILUN RESTRICTION | | 8.1.3 R | Feb 81 |
| VIRTUAL OVERLAY HANDLER CORRECTION | | 8.1.4 M | Feb 82 |

| Component | Autopatch Kit | Sequence | Mon/Yr |
|---|---|---|---|
| SYSTEM MACRO LIBRARY | | | |
| .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 | C | 9.1.3 M | Jun 81 |
| | | | |
| SYSTEM GENERATION PACKAGE | | | |
| SYSGEN CREATES ONE MORE DEVICE SLOT THAN REQUESTED | A | 10.3.1 M | Dec 80 |
| ASSEMBLY ERROR AFTER SYSGEN | B | 10.3.2 M | Mar 81 |
| | | | |
| DOCUMENTATION | | | |
| **RT-11 SYSTEM RELEASE NOTES** | | | |
| RT-11 V4.0 DOCUMENTATION CORRECTIONS AND ADDITIONS | | 11.2.1 N | Jul 80 |
| DOCUMENTATION CORRECTIONS | | 11.2.2 N | Aug 80 |
| CHANGES TO DUP /I OPTION | | 11.2.3 N | Apr 81 |
| INCORRECT DUP CUSTOMIZATION PATCHES | | 11.2.4 N | Sep 81 |
| | | | |
| **RT-11 INSTALLATION AND SYSTEM GENERATION GUIDE** | | | |
| RT-11 V4.0 DOCUMENTATION CORRECTIONS AND ADDITIONS | | 11.3.1 N | Jul 80 |
| CORRECTION TO AN OPTIONAL PATCH TO LINK | | 11.3.2 N | Aug 80 |
| DOCUMENTATION ERROR: REFERENCE TO RL02 OMITTED FROM | | | |
| SYSGEN DIALOGUE | | 11.3.3 N | Oct 80 |
| INCORRECT LINK MAPS FOR DISTRIBUTED MONITORS | | 11.3.4 N | Dec 80 |
| INCORRECT PATCH FOR CHANGING QUEUE WORK FILE SIZE | | 11.3.5 N | Dec 80 |
| CHANGING DEFAULT NUMBER OF DIRECTORY SEGMENTS | | 11.3.6 N | Apr 81 |
| | | | |
| **INTRODUCTION TO RT-11** | | | |
| RT-11 V4.0 DOCUMENTATION CORRECTIONS AND ADDITIONS | | 11.4.1 N | Jul 80 |
| | | | |
| **RT-11 SYSTEM USER'S GUIDE** | | | |
| RT-11 DOCUMENTATION CORRECTIONS AND ADDITIONS | | 11.5.1 N | Jul 80 |
| CORRECTIONS TO SLP CHAPTER: RT-11 SYSTEM USER'S GUIDE | | 11.5.2 N | Oct 80 |
| DIFFERENCES BETWEEN DEVICE COPYING COMMANDS | | 11.5.3 N | Dec 80 |
| | | | |
| **RT-11 SYSTEM MESSAGE MANUAL** | | | |
| RT-11 V4.0 DOCUMENTATION CORRECTIONS AND ADDITIONS | | 11.6.1 N | Jul 80 |
| CORRECTIONS TO SLP MESSAGES IN "RT-11 SYSTEM MESSAGE MANUAL" | | 11.6.2 N | Nov 80 |
| NEW SLP ERROR MESSAGE | | 11.6.3 N | Feb 81 |
| PIP ERROR MESSAGES MISSING | | 11.6.4 N | Oct 81 |
| | | | |
| **RT-11 POCKET GUIDE** | | | |
| RT-11 V4.0 DOCUMENTATION CORRECTIONS AND ADDITIONS | | 11.7.1 N | Jul 80 |
| | | | |
| **RT-11 PROGRAMMER'S REFERENCE MANUAL** | | | |
| DOCUMENTATION CORRECTIONS | | 11.8.1 N | Sep 80 |
| INCORRECT PROGRAMMED REQUEST EXAMPLES | | 11.8.2 N | Mar 81 |
| UNDOCUMENTED .SERR ERROR CODE | | 11.8.3 N | Dec 81 |
| | | | |
| **RT-11 SOFTWARE SUPPORT MANUAL** | | | |
| RT-11 V4.0 DOCUMENTATION CORRECTIONS AND ADDITIONS | | 11.9.1 N | Jul 80 |
| SOFTWARE SUPPORT MANUAL CORRECTION | | 11.9.2 N | Jun 81 |
| ERROR IN DESCRIPTION OF .DRSET MACRO | | 11.9.3 N | Sep 81 |
| | | | |
| DEBUGGING UTILITIES | | | |
| **VDT.OBJ** | | | |
| NOTES ON USING ODT OR VDT IN AN XM ENVIRONMENT | | 12.2.1 N | Jan 81 |
| | | | |
| BATCH PACKAGE | | | |
| **BATCH.SAV** | | | |
| PATCH BATCH TO USE MONITOR SUFFIX | A | 15.1.1 M | Oct 80 |
| | | | |
| SPOOLING PACKAGE | | | |
| **QUEUE.REL** | | | |
| SUPERFLUOUS LINEFEED FROM QUEUE | B | 16.1.1 M | Mar 81 |
| NARROW BANNER PAGES FROM QUEUE | C | 16.1.2 F | May 81 |
| /R FOLLOWING /S IF NO OUPTUT QUEUED MAY CAUSE FATAL | | | |
| ERROR IN QUEUE | D | 16.1.3 M | Aug 81 |
| | | | |
| **QUEMAN.SAV** | | | |
| PROBLEMS WITH QUEMAN | B | 16.2.1 M | Jan 81 |

| Component | Autopatch Kit | Sequence | Mon/Yr |
|---|---|---|---|
| KEYPAD EDITOR | | | |
| KED | | | |
| MAKE TERMINAL SETUP OPTIONAL IF MTATCH FAILS | A | 17.1.1 F | Aug 80 |
| PROVIDE A .CHAIN INTERFACE FOR KED | A | 17.1.2 F | Aug 80 |
| PROVIDE REASONABLE ACTIONS AND ERROR MESSAGES WHEN DEALING | | | |
|   WITH DEGENERATE FILES | A | 17.1.3 M | Oct 80 |
| SEARCH FAILS IF TARGET IF FIRST OR LAST STRING IN THE FILE | A | 17.1.4 M | Nov 80 |
| KNOWN ERRORS AND RESTRICTIONS | | 17.1.5 R | Dec 80 |
| "SET SEARCH EXACT JUNK" COMMAND CRASHES KED | C | 17.1.6 M | Jul 81 |
| REPEATED USE OF THE "APPEND" FUNCTION CRASHES KED | C | 17.1.7 M | Dec 81 |
| DISABLE REVERSE VIDEO DISPLAY BY KED | C | 17.1.8 F | Jul 81 |
| FILE SAMPLE.KED OMITTED FROM DISTRIBUTION | | 17.1.9 N | Aug 81 |
| KED DOCUMENTATION CORRECTION | | 17.1.10 N | Nov 81 |
| | | | |
| K52 | | | |
| MAKE TERMINAL SETUP OPTIONAL IF MTATCH FAILS | A | 17.2.1 F | Aug 80 |
| PROVIDE A .CHAIN INTERFACE FOR K52 | A | 17.2.2 F | Aug 80 |
| PROVIDE REASONABLE ACTIONS AND ERROR MESSAGES WHEN DEALING | | | |
|   WITH DEGENERATE FILES | A | 17.2.3 M | Oct 80 |
| SEARCH FAILS IF TARGET IS FIRST OR LAST STRING IN THE FILE | A | 17.2.4 M | Nov 80 |
| KNOWN ERRORS AND RESTRICTIONS | | 17.2.5 R | Dec 80 |
| "SET SEARCH EXACT JUNK" COMMAND CRASHES K52 | C | 17.2.6 M | Jul 81 |
| REPEATED USE OF THE "APPEND" FUNCTION CRASHES K52 | C | 17.2.7 M | Dec 81 |
| NO EQUIVALENT PATCH FOR K52 FOR SEQ 17.1.8 | | 17.2.8 N | Aug 81 |
| FILE SAMPLE.KED OMITTED FROM DISTRIBUTION | | 17.2.9 N | Aug 81 |
| KED DOCUMENTATION CORRECTION | | 17.2.10 N | Dec 81 |
| | | | |
| AUTOMATED PATCHING FACILITY PACKAGE | | | |
| PACKAGE NOTES | | | |
| AUTOPATCH SERVICE FOR RT-11 | | 19.1.1 N | Jun 81 |

FMS-11/RT-11 V1.1

| | | | |
|---|---|---|---|
| ANNOUNCING FMS-11/RT-11 V1.1 | | 33.1 N | Aug 80 |
| | | | |
| FRED V1.1 | | | |
| ZERO IMPURE AREA SIZE PROBLEM | | 33.3.1 M | Sep 81 |

BASIC-11/RT-11 V2.0

| Component | Autopatch Kit | Sequence | Mon/Yr |
|---|---|---|---|
| INTERPRETER | | | |
| REPUBLICATION OF PATCHES | | 35.1.1 N+ | Mar 80 |
| PRINT USING - PATCH A | A | 35.1.2 M+ | Mar 80 |
| RESEQ - PATCH B | A | 35.1.3 M+ | Mar 80 |
| EDITING A DIM #n STATEMENT - PATCH C | A | 35.1.4 M+ | Mar 80 |
| DOUBLE PRECISION HANG - PATCH D | A | 35.1.5 M+ | Mar 80 |
| SAVE dev: AND REPLACE dev: - PATCH E | A | 35.1.6 M+ | Mar 80 |
| SINGLE PRECISION HANG AND NUMERIC CONVERSION PROBLEM - PATCH F | A | 35.1.7 M+ | Mar 80 |
| SAVE .XXX & UNSAVE .XXX - PATCH G | A | 35.1.8 M+ | Mar 80 |
| NEW - PATCH H | A | 35.1.9 M+ | Mar 80 |
| RESEQ - PATCH I | A | 35.1.10 M+ | Mar 80 |
| LISTNH / OLD - PATCH J | A | 35.1.11 M+ | Mar 80 |
| SYS(1) - PATCH K | A | 35.1.12 M+ | Mar 80 |
| CALL - PATCH L | A | 35.1.13 M+ | Mar 80 |
| DOUBLE PRECISION INTEGER VARIABLES - PATCH M | A | 35.1.14 M+ | Mar 80 |
| FILESIZE 0 - PATCH N | A | 35.1.15 M+ | Mar 80 |
| INTEGERS IN DOUBLE PRECISION BASIC-11 | | 35.1.16 N+ | Mar 80 |
| REM STATEMENTS ON MULTI-STATEMENT LINES - PATCH O | A | 35.1.17 M+ | Mar 80 |
| INT FUNCTION - PATCH P FOR SINGLE USER BASIC-11 | A | 35.1.18 M | Nov 80 |
| RETRACTED | | 35.1.19 M | May 81 |
| PRINT USING - PATCH R FOR SINGLE USER BASIC-11 | B | 35.1.20 M | Jan 81 |
| OMITTING TRIG FUNCTIONS FROM BASIC-11 | B | 35.1.21 N | Jan 81 |
| STRING CONCATENATION - PATCH S FOR SINGLE USER BASIC-11 | B | 35.1.22 M | Mar 81 |
| PROBLEM WITH BASIC-11 PATCH Q | | 35.1.23 N | May 81 |
| | | | |
| UTILITIES | | | |
| CONVERSION PROGRAM | | 35.2.1 M+ | Mar 80 |
| BASIC-11/RT-11 V2 CONVERSION PROGRAM PATCH 1 | | 35.2.2 M+ | Mar 80 |

**DOCUMENTATION**

| | | | |
|---|---|---|---|
| OVERLAYING WHILE IN A SUBROUTINE | | 35.3.1 R+ | Mar 80 |
| OPERATION OF CTRLC, RCTRLC AND SYS(6) FUNCTIONS AND THE | | | |
|   CTRL/C COMMAND | | 35.3.2 N+ | Mar 80 |
| OPERATION OF OLD, RUN, CHAIN, AND OVERLAY WHEN THE SPECIFIED FILE | | | |
|   IS NOT FOUND | | 35.3.3 N+ | Mar 80 |
| CREATING AND ACCESSING VIRTUAL ARRAY FILES | | 35.3.4 N+ | Mar 80 |
| STORAGE OF THE NULL CHARACTER IN STRING VARIABLES AND VIRTUAL | | | |
|   STRING ARRAYS | | 35.3.5 N+ | Mar 80 |
| USE OF COMPILE COMMAND | | 35.3.6 N+ | Mar 80 |
| STRING MANIPULATION IN ASSEMBLY LANGUAGE ROUTINES | | 35.3.7 N+ | Mar 80 |
| MAXIMUM ARRAY SUBSCRIPT SIZE | | 35.3.8 N+ | Mar 80 |
| NEW MANUAL AVAILABLE FOR BASIC-11/RT-11 | | 35.3.9 N | May 81 |


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

**INTERPRETER**

| | | | |
|---|---|---|---|
| CHAINING WITH COMMON - PATCH A | | 36.1.1 M+ | Mar 80 |
| VIRTUAL FILE I/O - PATCH B | | 36.1.2 M+ | Mar 80 |
| SYS(1,n) FUNCTION - PATCH C | | 36.1.3 M+ | Mar 80 |
| RESEQ - PATCH D | | 36.1.4 M+ | Mar 80 |
| VALUES IN PATCHES A, B, C | | 36.1.5 N+ | Mar 80 |
| LISTNH / OLD - PATCH E | | 36.1.6 M+ | Mar 80 |
| CALL - PATCH F | | 36.1.7 M+ | Mar 80 |
| DOUBLE PRECISION INTEGER VARIABLES - PATCH G | | 36.1.8 M+ | Mar 80 |
| INPUT #/PRINT # - PATCH H | | 36.1.9 M+ | Mar 80 |
| OLD OF A ZERO BLOCK FILE - PATCH I | | 36.1.10 M+ | Mar 80 |
| ADDITION TO PATCH B - PATCH J | | 36.1.11 M+ | Mar 80 |
| DEVICE MNEMONIC PROBLEM - PATCH K | | 36.1.12 M+ | Mar 80 |
| CLOSE - PATCH L | | 36.1.13 M+ | Mar 80 |
| REM STATEMENTS ON MULTI-STATEMENT LINES - PATCH M | | 36.1.14 M+ | Mar 80 |
| DEASSIGNING A TERMINAL - PATCH N | | 36.1.15 M+ | Mar 80 |
| INTEGERS IN DOUBLE PRECISION MU BASIC-11 | | 36.1.16 N+ | Mar 80 |
| USE OF SYS(1,n) FUNCTION WHEN ',n' IS OMITTED - PATCH O | | 36.1.17 M+ | Mar 80 |
| DISABLING CR/LF USING TTYSET - PATCH P | | 36.1.18 M+ | Mar 80 |
| HANDLER FETCH ERROR MAY LEAD TO MONITOR FAULT - PATCH Q | | 36.1.19 M+ | Mar 80 |
| REMOTE LINES - PATCH R FOR MULTI-USER BASIC-11 | | 36.1.20 M | Nov 80 |
| INT FUNCTION - PATCH S FOR MULTI-USER BASIC-11 | | 36.1.21 M | Nov 80 |
| PRINT USING - REVISED PATCH T FOR MULTI USER BASIC-11 | | 36.1.22 M | Apr 81 |
| RETRACTED | | 36.1.23 MM | Jan 81 |
| OMITTING TRIG FUNCTIONS FROM MU BASIC-11 | | 36.1.24 N | Jan 81 |
| SYS(1) FUNCTION - PATCH V FOR MULTI USER BASIC-11 | | 36.1.25 M | Jan 81 |
| STRING CONCATENATION - PATCH W FOR MULTI USER BASIC-11 | | 36.1.26 M | Mar 81 |
| CARD READER EOF - PATCH X FOR MULTI USER BASIC-11 | | 36.1.27 M | May 81 |
| CLOSE GIVES ILLEGAL FILES SPEC - PATCH Y FOR MULTI USER BASIC-11 | | 36.1.28 M | May 81 |
| TTSET GIVES TRAP TO 10 - MU BASIC PATCH Z | | 36.1.29 M | May 81 |
| PROBLEM WITH MU BASIC-11 PATCH U | | 36.1.30 N | Jul 81 |


**UTILITIES**

| | | | |
|---|---|---|---|
| MU BASIC-11/RT-11 V2 CONFIGURATION PROGRAM PATCH 1 | | 36.2.1 M+ | Mar 80 |
| MU BASIC-11/RT-11 V2 CONVERSION PROGRAM | | 36.2.2 F+ | Mar 80 |


**DOCUMENTATION**

| | | | |
|---|---|---|---|
| OPERATION OF CTRLC, RCTRLC AND SYS(6) FUNCTIONS AND THE | | | |
|   CTRL/C COMMAND | | 36.3.1 N+ | Mar 80 |
| MEMORY REQUIREMENTS OF OPTIONAL FUNCTIONS, ETC. | | 36.3.2 N+ | Mar 80 |
| OPERATION OF OLD, RUN, CHAIN AND OVERLAY WHEN THE SPECIFIED | | | |
|   FILE IS NOT FOUND | | 36.3.3 N+ | Mar 80 |
| CREATING AND ACCESSING VIRTUAL ARRAY FILES | | 36.3.4 N+ | Mar 80 |
| STORAGE OF THE NULL CHARACTER IN STRING VARIABLES AND VIRTUAL | | | |
|   STRING ARRAYS | | 36.3.5 N+ | Mar 80 |
| USE OF COMPILE COMMAND | | 36.3.6 N+ | Mar 80 |
| STRING MANIPULATIONN IN ASSEMBLY LANGUAGE ROUTINES | | 36.3.7 N+ | Mar 80 |
| ERROR IN TABLE 4-1 OF THE USER'S GUIDE | | 36.3.8 N+ | Mar 80 |
| RESTRICTION ON USR RESIDENCY WHEN RUNNING IN FOREGROUND | | 36.3.9 N+ | Mar 80 |
| MAXIMUM ARRAY SUBSCRIPT SIZE | | 36.3.10 N+ | Mar 80 |
| ASSEMBLING SOURCE FILES (SOURCE LICENSE HOLDERS ONLY) | | 36.3.11 N+ | Mar 80 |
| USE OF PATCH UTILITY | | 36.3.12 N+ | Mar 80 |

## MU BASIC-11/RT V2.1

| | | | |
|---|---|---|---|
| MU BASIC V2.1 MAINTENANCE RELEASE AVAILABLE | | | Mar 82 |

## APL-11 V2.0

PACKAGE NOTES

| | | | |
|---|---|---|---|
| APL IS AVAILABLE IN THE DECUS LIBRARY | | 38.1.1 N | Sep 81 |

## FORTRAN IV/RT-11 V2.1

COMPILER

| | | | |
|---|---|---|---|
| PATCH 1 | | 44.1.1 M+ | Mar 80 |
| PATCH 2 | | 44.1.2 M+ | Mar 80 |
| PATCH 3 | | 44.1.3 M+ | Mar 80 |
| REGISTER ALLOCATION – PATCH 8 | | 44.1.4 M+ | Mar 80 |
| FORTRAN FAILS TO COMPILE DO-LOOPS – PATCH 11 | | 44.1.5 M+ | Mar 80 |
| COMMON SUBEXPRESSION OPTIMIZATION – PATCH 17 | | 44.1.6 M+ | Mar 80 |
| BYTE COMPARISON AND COMMON SUBEXPRESSION OPTIMIZATION – PATCH 20 | | 44.1.7 M+ | Mar 80 |
| DIRECT ACCESS READ – PATCH 21 | | 44.1.8 M+ | Mar 80 |
| COMPLEX VARIABLE TO CONSTANT COMPARISON – PATCH 22 | | 44.1.9 M+ | Mar 80 |

OTS

| | | | |
|---|---|---|---|
| PATCH 4 | | 44.2.1 M+ | Mar 80 |
| CARRIAGE CONTROL OPTION – PATCH 5 | | 44.2.2 M+ | Mar 80 |
| OPEN FAILURE WITH TYPE='OLD' – PATCH 6 | | 44.2.3 M+ | Mar 80 |
| FORTRAN LIBRARY FUNCTION ERRTST – PATCH 7 | | 44.2.4 M+ | Mar 80 |
| SMALLER EXECUTION-TIME PROGRAMS | | 44.2.5 N+ | Mar 80 |
| FORTRAN OTS – PATCH 9 | | 44.2.6 M+ | Mar 80 |
| I/O FROM A FORTRAN COMPLETION ROUTINE – PATCH 10 | | 44.2.7 M+ | Mar 80 |
| CALL CLOSE (FORTRAN LIBRARY SUBROUTINE) – PATCH 12 | | 44.2.8 M+ | Mar 80 |
| UNFORMATTED BYTE I/O – PATCH 13 | | 44.2.9 F+ | Mar 80 |
| LIST DIRECTED INPUT ERRORS – PATCH 14 | | 44.2.10 M+ | Mar 80 |
| DISP='DELETE' OPTION – PATCH 15 | | 44.2.11 M+ | Mar 80 |
| FORMATTED RECORD OUTPUT – PATCH 16 | | 44.2.12 M+ | Mar 80 |
| CALL ASSIGN CARRIAGE CONTROL – PATCH 18 | | 44.2.13 M+ | Mar 80 |
| NON-PLAS VIRTUAL ARRAY INITIALIZATION – PATCH 19 | | 44.2.14 M+ | Mar 80 |

DOCUMENTATION

| | | | |
|---|---|---|---|
| FORTRAN IV V2.1 MAINTENANCE RELEASE | | 44.3.1 N+ | Mar 80 |
| INSTALLING FORTRAN IV V2.1 UNDER RT-11 V4 | | 44.3.2 N | Aug 80 |

## FORTRAN IV/RT-11 V2.5

COMPILER

| | | | |
|---|---|---|---|
| ANNOUNCING PDP-11 FORTRAN IV/RT-11 V2.5 | | 45.1.1 N | Sep 80 |
| THE COMPILER INCORRECTLY PARSES SOME EXPRESSIONS IN I/O LISTS | A | 45.1.2 M | Nov 80 |
| THE COMPILER INCORRECTLY CONVERTS INTEGER TO BYTE IN LOGICAL EXPRESSIONS | A | 45.1.3 M | Nov 80 |
| THE COMPILER GENERATES INCORRECT CODE FOR EQUIVALENCED ARRAYS (PAT 12) | D | 45.1.4 M | Sep 81 |
| THE COMPILER INCORRECTLY INTERPRETS COMMENTS WITH TABS (PAT 17) | | 45.1.5 M | Nov 81 |
| MISSING END IN MAIN PROGRAM CAN CAUSE COMPILER CRASH (PAT 18) | | 45.1.6 M | Nov 81 |
| THE COMPILER INCORRECTLY OPTIMIZES ARRAY ELEMENTS PASSED AS ARGUEMENTS (PAT 20) | | 45.1.7 M | Dec 81 |
| THE COMPILER INCORRECTLY PARSES PARENTHESES IN QUOTED STRINGS (PAT 21) | | 45.1.8 M | Jan 82 |
| THE COMPILER CRASHES WHILE ACCESSING AN ODD ADDRESS IN PAT 12 (PAT 22) | | 45.1.9 M | Jan 82 |

OTS

| | | | |
|---|---|---|---|
| THE OTS DOES NOT SET DEFAULT CARRIAGE CONTROL FOR SERIAL LINE PRINTER | B | 45.2.1 M | Jan 81 |
| THE LUN IS NOT SAVED WHEN AN ERROR OCCURS WHILE OPENING A FILE | B | 45.2.2 M | Jul 81 |
| PATCH TO ALLOW THE PLACEMENT OF THE FORTRAN OTS WORK AREA BETWEEN THE PROGRAM'S HIGH LIMIT AND THE BASE OF THE FIRST VIRTUAL OVERLAY FOR PRIVILEGED FORTRAN JOBS | B | 45.2.3 F | Feb 81 |
| BOUNDARY CONDITION ON FORMATTED I/O CORRUPTS I/O (PAT 6) | B | 45.2.4 M | Mar 81 |

| Component | Autopatch Kit | Sequence | Mon/Yr |
|---|---|---|---|
| DEFAULT CARRIAGE CONTROL FOR IMPLIED SEQUENTIAL ACCESS FILES (PAT 7) | C | 45.2.5 M | Jul 81 |
| STANDALONE FORTRAN YIELDS RUN-TIME ERROR 64 (PAT 8) | B | 45.2.6 M | Apr 81 |
| DISPOSE = 'KEEP' NOT RECOGNIZED WITH READONLY OPEN PARAMETER (PAT 9) | C | 45.2.7 M | Jul 81 |
| THE DATE ROUTINE DOES NOT PERMIT BYTE ALIGNED PARAMETERS (PAT10) | C | 45.2.8 M | Jul 81 |
| IMPLICIT READ FAILURE MAY HALT PROCESSOR (PAT 11) | C | 45.2.9 M | Jul 81 |
| FPU DOUBLE PRECISION SINE/COSINE MODULE ERRORS (PAT 13) | D | 45.2.10 M | Sep 81 |
| EMBEDDED BLANKS OVERRIDE THE ICNT PARAMETER IN THE ASSIGN ROUTINE | | 45.2.11 M | Oct 81 |
| THE DEFAULT CARRIAGE CONTROL FOR THE ASSIGN ROUTINE IS INCORRECT | | 45.2.12 M | Oct 81 |
| CORRECTION FOR UNIT CLOSING (PAT 16) | | 45.2.13 M | Nov 81 |
| LIST DIRECTED INPUT CONVERSION ERROR (PAT 19) | | 45.2.14 M | Dec 81 |
| BOUNDARY CONDITION ON FORMATTED I/O CORRUPTS I/O IN PAT 6 (PAT 23) | | 45.2.15 M | Feb 82 |
| BOUNDARY CONDITION ON FORMATTED I/O BACKSPACE CORRUPTS I/O | | 45.2.16 M | Feb 82 |
| CORRECTION OF ASSIGN FILENAME HANDLING WHEN ICNT EQUALS ZERO | | 45.2.17 M | Feb 82 |

### GAMMA V3.1

| Component | Autopatch Kit | Sequence | Mon/Yr |
|---|---|---|---|
| FGAMMA-FRAMES 3 TO 10 OF GSA STUDY SOMETIMES CORRUPT | | 49.2.1 M | Jul 81 |
| SYSTEM MAY HANG WHEN DISK SQUEEZED | | 49.2.2 M | Oct 81 |
| STATIC STUDIES ON LARGE DEVICES | | 49.2.3 M | Jan 82 |
| STATIC STUDY ACQUISITION ON LARGE DEVICES | | 49.4.1 M | Jan 82 |
| ISOMETRIC DISPLAY IMAGES USE INCORRECT INTENSITY LEVELS | | 49.5.1 M | Oct 81 |
| SLICE - LAST POINT IS NOT PLOTTED | | 49.5.2 M | Nov 81 |
| SLICE - <CR>, <LF> NOT ISSUED AFTER PRINTING SLICE DATA | | 49.5.3 M | Jan 82 |
| TRANSFER STUDY IN SELECTIVE STEP MODE | | 49.8.1 F | Mar 82 |
| GAMMA-11 DOCUMENTATION CORRECTIONS AND ADDITIONS | | 49.10.1 N | Mar 82 |
| PATCHING THE RT-11 MONITOR FOR GAMMA-11 | | 49.11.1 M | Nov 81 |
| ERROR IN THE BASIC SUPPORT ROUTINE GPMR | | 49.12.1 M | Dec 81 |
| ERRORS IN THE BASIC SUPPORT ROUTINES GPLR AND GPF | | 49.12.2 M | Mar 82 |
| ERROR IN FORTRAN SUPPORT SUBROUTINE GPMR | | 49.13.1 M | Mar 82 |
| ERRORS IN THE FORTRAN SUPPORT ROUTINES GPLR AND GPF | | 49.13.2 M | Mar 82 |

### DECnet-RT V1.1

| Component | Autopatch Kit | Sequence | Mon/Yr |
|---|---|---|---|
| NETGEN | | | |
| FULL DUPLEX, EXTENDED MEMORY DUP DRIVER WON'T BUILD | | 50.3.1 M | Aug 80 |
| DDCMP | | | |
| DDCMP BRANCH OUT OF RANGE AND Q ELEMENT RETURN PROBLEMS | | 50.5.1 M | Aug 80 |
| NSP | | | |
| NSP CORRUPTS PHYSICAL LINE ERROR CODE | | 50.6.1 M | Aug 80 |
| NFT | | | |
| NFT INCORRECTLY ALLOCATES RT-11 QUEUE ELEMENTS | | 50.9.1 M | Jun 80 |
| FAL | | | |
| FAL INCORRECTLY ALLOCATES RT-11 QUEUE ELEMENTS | | 50.10.1 M | Jun 80 |
| FAL MAY HANG ON ASCII TRANSFERS OF UNFILLED BLOCKS | | 50.10.2 M | Aug 80 |
| FAL WILL NOT ALLOW ACCESS COMPLETE AFTER CONTROL CONNECT | | 50.10.3 M | Aug 80 |
| NFARS | | | |
| DAP ROUTINES DO NOT REPORT PHYSICAL LINE ERRORS | | 50.11.1 M | Nov 80 |
| DAP ATTEMPTS TO MULTIPLY RETURN BUFFERS ON ERROR | | 50.11.2 M | Aug 80 |
| DAP SEND ONE CHARACTER ON ZERO LENGTH TRANSMITS | | 50.11.3 M | Nov 80 |
| DAPAST CLEARS THE USER CHANNEL NUMBER TOO SOON | | 50.11.4 M | Aug 80 |
| FORTRAN USER INTERFACES | | | |
| NOTES ON THE USE OF THE DECnet-RT FORTRAN INTERFACES | | 50.16.1 M | Jun 80 |

| Component | Autopatch Kit | Sequence | Mon/Yr |
|---|---|---|---|
| **MACRO USER INTERFACES** | | | |
| NOTES ON DECnet-RT MACRO PROGRAMMING | | 50.16.2 N | Jun 80 |

<div align="center">CTS-300 V6.0</div>

| Component | Autopatch Kit | Sequence | Mon/Yr |
|---|---|---|---|
| DBUILD | | | |
| CORRECTION FOR THREE DECFORM PROBLEMS | | 51.2.1 M | Oct 81 |
| | | | |
| DECFORM | | | |
| PROBLEM WITH DECFORM AND THE VT100 | | 51.4.1 M | Nov 80 |
| CORRECTION FOR THREE DECFORM PROBLEMS | | 51.4.2 M | Oct 81 |
| DECFORM WITH VT100 TERMINAL CAUSES BAD CHARACTER ON TYPE-AHEAD | | 51.4.3 M | Nov 81 |
| | | | |
| DIBOL | | | |
| TWO CORRECTIONS TO XCALL PAK/UNPAK | | 51.5.1 M | Aug 81 |
| | | | |
| DICOMP | | | |
| FOUR DICOMP ERRORS FIXED | | 51.6.1 M | Oct 81 |
| | | | |
| DKED | | | |
| TWO PROBLEMS WITH DKED | | 51.7 M | Aug 80 |
| DKED SELECT/CUT AND KEYPAD ERRORS | | 51.7.2 M | Sep 80 |
| DKED INCORRECTLY HANDLES CONTINUED LINES | | 51.7.3 M | Oct 81 |
| | | | |
| ISMUTL | | | |
| CORRECTIONS FOR ISAM UTILITY ERRORS | | 51.8.1 M | Nov 81 |
| | | | |
| LPTSPL | | | |
| TSD SPOOLER GETS CONFUSED | | 51.9.1 M | Nov 80 |
| | | | |
| SORTM | | | |
| SORT SENDS MESSAGES INDISCRIMINATELY | | 51.14.1 M | Jan 81 |
| | | | |
| SUD | | | |
| CORRECTIONS TO DIBOL RUN TIME SYSTEMS | | 51.16.1 M | Jan 81 |
| PROBLEMS WITH XCALL RENAM AND ERROR 6 | | 51.16.2 M | Feb 81 |
| NO ERROR 22 RETURNED | | 51.16.3 M | Nov 81 |
| DIBOL STACK OVERFLOW ON OPEN | | 51.16.4 M | Nov 81 |
| PROBLEMS WITH STACK OVERFLOW AND INCREMENT | | 51.16.5 M | Dec 81 |
| SUD MESSAGES OVER 100 CHARACTERS IN LENGTH ARE NOT RECEIVED CORRECTLY | | 51.16.6 M | Feb 82 |
| | | | |
| TDIBOL | | | |
| PROBLEM WITH XCALL PAK | | 51.17 M | Aug 80 |
| PROBLEM UNPACKING DATA | | 51.17.2 M | Sep 80 |
| TWO CORRECTIONS TO XCALL PAK/UNPAK | | 51.17.3 M | Aug 81 |
| | | | |
| TSD | | | |
| CORRECTIONS TO DIBOL RUN TIME SYSTEMS | | 51.18.1 M | Jan 81 |
| PROBLEMS WITH XCALL RENAM AND ERROR 6 | | 51.18.2 M | Feb 81 |
| INCORRECT TERMINAL WIDTHS AND CIS PROBLEM | | 51.18.3 M | Aug 81 |
| CORRECTION TO TSD/XMTSD | | 51.18.4 M | Sep 81 |
| CORRECTION FOR ISAM PROBLEM | | 51.18.5 M | Oct 81 |
| "SEND" STARTS MULTIPLE JOBS | | 51.18.6 M | Oct 81 |
| NO ERROR 22 RETURNED | | 51.18.7 M | Nov 81 |
| DIBOL STACK OVERFLOW ON OPEN | | 51.18.8 M | Nov 81 |
| PROBLEMS WITH STACK OVERFLOW AND INCREMENT | | 51.18.9 M | Dec 81 |
| CORRECTION FOR SIDE EFFECTS FROM PATCH 27 | | 51.18.10 M | Feb 82 |
| LINE PRINTER IS SOMETIMES INCORRECTLY CONSIDERED IN USE | | 51.18.11 M | Feb 82 |
| | | | |
| XMTSD | | | |
| CONFLICT BETWEEN XMTSD AND RT-11 OVER CHANNEL 16 | | 51.20 M | Aug 80 |
| CORRECTIONS TO DIBOL RUN TIME SYSTEMS | | 51.20.2 M | Jan 81 |
| PROBLEMS WITH XCALL RENAM AND ERROR 6 | | 51.20.3 M | Feb 81 |
| PATCH FOR XMTSD WITH CIS | | 51.20.4 M | Apr 81 |
| INCORRECT TERMINAL WIDTHS AND CIS PROBLEM | | 51.20.5 M | Aug 81 |
| XMTSD HANGS WHEN LP IS OFF-LINE | | 51.20.6 M | Sep 81 |
| CORRECTION TO TSD/XMTSD | | 51.20.7 M | Sep 81 |

| Component | Autopatch Kit | Sequence | Mon/Yr |
|---|---|---|---|
| CORRECTION FOR ISAM PROBLEM | | 51.20.8 M | Oct 81 |
| "SEND" STARTS MULTIPLE JOBS | | 51.20.9 M | Oct 81 |
| NO ERROR 22 RETURNED | | 51.20.10 M | Nov 81 |
| DIBOL STACK OVERFLOW ON OPEN | | 51.20.11 M | Nov 81 |
| PROBLEMS WITH STACK OVERFLOW AND INCREMENT | | 51.20.12 M | Dec 81 |
| CORRECTION FOR SIDE EFFECTS FROM PATCH 27 | | 51.20.13 M | Feb 82 |
| LINE PRINTER IS SOMETIMES INCORRECTLY CONSIDERED IN USE | | 51.20.14 M | Feb 82 |
| | | | |
| DOCUMENTATION | | | |
| CTS-300 VERSION 6 IS RELEASED | | 51.21 N | Aug 80 |
| TWO RT-11 PATCHES MODIFIED FOR CTS-300 USE | | 51.21.2 N | Oct 80 |
| RT-11 PATCH TO LS.MAC MODIFIED FOR CTS-300 USE | | 51.21.3 N | Feb 81 |
| ADDITIONS TO CTS-300 DOCUMENTATION ON PRINT UTILITY | | 51.21.4 N | Mar 81 |
| LIST OF SEQUENCE NUMBERS FOR CTS-300 V6 | | 51.21.5 N | Mar 81 |
| SOME NOTES ON RT-11 PATCH SEQ 6.13.3 M TO LS.MAC FOR CTS-300 USERS | | 51.21.6 M | Jul 81 |
| SOME NOTES ON RT-11 PATCH SEQ 6.13.4 M TO LS.MAC FOR CTS-300 USERS | | 51.21.7 N | Aug 81 |
| SOME NOTES ON RT-11 PATCH SEQ 6.13.5 M TO LS.MAC FOR CTS-300 USERS | | 51.21.8 N | Aug 81 |
| AVOIDING POSSIBLE PROBLEM WITH ISAM FILES | | 51.21.9 N | Dec 81 |
| SOME NOTES ON RT-11 PATCH SEQ 6.13.6 M TO LS.MAC FOR CTS-300 USERS | | 51.21.10 N | Feb 82 |
| | | | |
| LS.MAC | | | |
| SPECIAL CTS-300 PATCH FOR LS.MAC | | 51.23.1 M | Feb 81 |
| CORRECTION TO CTS-300 PATCH 11 (SEQ 51.23.1 M) TO LS.MAC | | 51.23.2 M | Jun 81 |
| | | | |
| SYSTBL.CND | | | |
| RT-11 PATCH TO SYSTBL.CND MODIFIED FOR CTS-300 USE | | 51.25.1 M | Mar 81 |
| RT-11 PATCH SEQ 10.3.2 M TO SYSTBL.CND MODIFIED   FOR CTS-300 USE | | 51.25.2 M | Apr 81 |

## GAMMA-11 V3.0

| Component | Autopatch Kit | Sequence | Mon/Yr |
|---|---|---|---|
| BGAMMA/FGAMMA | | | |
| PROBLEMS WITH GAMMA-11 V3.0 | | 54.1.1 M | Jun 81 |
| FGAMMA-FRAMES 3 TO 10 OF GSA STUDY SOMETIMES CORRUPT | | 54.1.2 M | Jul 81 |
| ISOMETRIC DISPLAY IMAGES USE INCORRECT INTENSITY LEVELS | | 54.1.3 M | Sep 81 |
| SYSTEM MAY HANG WHEN DISK SQUEEZED | | 54.1.4 M | Oct 81 |

## CTS-300 DICAM (3271) V3.1

| Component | Autopatch Kit | Sequence | Mon/Yr |
|---|---|---|---|
| INCORRECT ACK SENT IN CONVERSATIONAL MODE | | 55.1.1 M | Jul 81 |
| LOOP WHEN CLOSE IS ISSUED WITH OUTSTANDING I/O REQUESTS | | 55.1.2 M | Jul 81 |

## CTS-300 RDCP (2780/3780) V2.0

| Component | Autopatch Kit | Sequence | Mon/Yr |
|---|---|---|---|
| ABNORMAL TERMINATION AND LISTING PROBLEMS | | 56.1.1 M | Dec 80 |
| SUBSCRIPT ERROR IN RDCP EDITOR | | 56.1.2 M | Dec 80 |
| MEMORY CORRUPTION PROBLEM | | 56.1.3 M | Dec 80 |

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