RT-11 May 1981 AD-C740C-14

THE SOFTWARE DISPATCH



RT-11 SOFTWARE DISPATCH

Published by Corporate Administrative Systems Group, Software Services Digital Equipment Corporation P.O. Box F Maynard, MA 01754

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

PRODUCTS SUPPORTED in the RT-11 SOFTWARE DISPATCH

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

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

DISTRIBUTION

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Eleanor F. Hunter, Editor Ann Owens, Associate Editor

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SPR USER LETTER

Submitted by Sheila Hatchell, 8/11 Administration

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

How to Make the Best Use of the SPR Form

What We Can Do for You:

- 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.
- Copies of the SPR acknowledgement and answer are sent to the appropriate DIGITAL Office/SPR Center for their information.
- 3. STATUS FOR SUBMITTED SPRs IS PROVIDED UPON REQUEST.
- 4. SPRs marked PROBLEM/ERROR will have a response for DIGITAL SUPPORTED products. These SPRs should refer to suspected deficiencies in the software.
- 5. SPRs marked SUGGESTION are forwarded to the pertinent software group for information purposes, and are responded to at their discretion.

What You Can Do for Us:

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

RT-11 V4.Ø System Utilities DUP.SAV VØ4.ØØE Seq 7.2.6 N

1 of 1

USE OF INITIALIZE/RESTORE ON MEDIA SUPPORTING BAD BLOCK REPLACEMENT (DF)

INITIALIZE/RESTORE cannot be used on volumes which support bad block replacement if any bad blocks were encountered during the inadvertant initialization. Note that bad blocks can be encountered and replaced even if the /BAD or /REPLACE options are not used. This will occur if blocks were listed in the manufacturer's bad segment file. These blocks will be replaced every time the disk is initialized whether or not a bad block scan is done. For this reason there is no way of knowing whether any bad blocks were encountered and replaced. Therefore, the "unintialize" feature is not supported for any disks supporting bad block replacement.

This restriction was left out of the System User's Guide but will appear in change pages to be issued in the near future.

RT-11 V4.Ø System Utilities DUP.SAV VØ4.ØØE Seq 7.2.7 M

1 of 2

PROBLEMS WITH INIT/BAD AND COPY/DEVICE (DF)

- . When INIT/BAD is used to cover bad blocks on a disk which supports bad block replacement, any blocks which appear in the manufacturer's bad sector file, but which are not determined to be bad by DUP, are replaced. These blocks should be covered by .BAD files. Replacement should only be done if the /REPLACE option is specified.
- . If COPY/DEVICE is used with the options /START:0 and /END:0 specified on input, the entire disk is copied rather than only block 0.
- The following is a required patch to the DUP.SAV VØ4.ØØE utility program (previously modified in Seq 7.2.5). It must be installed in all copies of the utility.

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

2. This patch is installed using SIPP, the Save Image Patching Program. First, ensure that a copy of the file DUP.SAV is on a mounted volume. Create the file, DUP.005 as follows. Replace 'DK:' in the patch below with the name of the device that contains the program file.

RUN SIPP DK: DUP. SAV/A/C 3546 1Ø6 (up-arrow/Z) ^ Z 12754 4767 2Ø66 ^Z (up-arrow/Z) 15Ø46 12767 173554 10067 165426 2Ø7 ^Z (up-arrow/Z) 212Ø4 177422 ^Z (up-arrow/Z) 27000 4767 174 ^Z (up-arrow/Z) 27200 32767 200 16526Ø

RT-11 V4.Ø

System Utilities DUP.SAV VØ4.ØØE

```
1002
52715
52725
2
2Ø7
^Z
                                       (up-arrow/Z)
4717Ø
1466Ø
4737
1461Ø
^Z
                                       (up-arrow/Z)
5Ø54Ø
112710
1
^Z
                                       (up-arrow/Z)
5Ø61Ø
12700
172Ø
122767
23
16476Ø
1ØØ3
12767
173250
207
^Y
                                       (up-arrow/Y)
4313Ø
^C
                                       (CTRL/C to exit)
```

Seq 7.2.7 M

2 of 2

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

@DUP.ØØ5

The resulting version of the utility will be DUP $V\emptyset4.00F$.

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

RT-11 V4.Ø System Utilities RESORC.SAV VØ4.ØØA Seq 7.5.2 M

1 of 2

ADD CIS DETECTION CAPABILITY TO RESORC (JK)

The following patch to RESORC.SAV gives the RESORC utility the capability of detecting that the Commercial Instruction Set (CIS) is present on a PDP-11/24 or PDP-11/44. The user will be informed of this with use of the /H (hardware) switch as well as the /Z and /A switches of which the /H switch is a subset.

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

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

2. This patch is installed using SIPP, the Save Image Patching Program. First, ensure that a copy of the file RESORC.SAV is on a mounted volume. Create the file, RESORC.ØØ2 as follows. Replace 'DK:' in the patch below with the name of the device that contains the program file.

R SIPP DK: RESORC. SAV/A/C 2656 1Ø2 ^ Z (up-arrow/Z) 7624 4767 63Ø2 ^Z (up-arrow/Z) 1556Ø 167 37Ø ^Z (up-arrow/Z) 16132 327Ø4 2ØØ 14Ø3 12700 162Ø2 104351 5737 177572 2Ø7 1227ØØ

RT-11 V4.Ø System Utilities RESORC.SAV VØ4.ØØA Seq 7.5.2 M

2 of 2

(up-arrow/Y)

(up-arrow/C)

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

@RESORC.ØØ2

The resulting version of the utility will be RESORC VØ4.ØB.

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

RT-11 V4.0 System Utilities LIBR.SAV V04.00A Seq 7.10.2 M

1 of 3

LIBR ERRORS (JK)

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

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

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

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

2. This patch is installed using SIPP, the Save Image Patching Program. First, ensure that a copy of the file LIBR.SAV is on a mounted volume. Create the file, LIBR.ØØ2 as follows. Replace 'DK:' in the patch below with the name of the device that contains the program file.

R SIPP DK:LIBR.SAV/A/C Ø 3132 1Ø2 ^Z (up-arrow/Z) 421Ø 103451 ^ Z (up-arrow/Z) 4266 4767 1266 ^Z (up-arrow/Z) 4662 4767 7Ø6 10067 1753Ø4 1Ø367 17572Ø

RT-11 V4.0 System Utilities LIBR.SAV V04.00A Seq 7.10.2 M 2 of 3

1ØØ3 5767 (up-arrow/Z)

RT-11 V4.Ø

System Utilities

```
LIBR.SAV VØ4.ØØA
             173672
             14Ø3
             261
             6Ø67
             177754
             207
             52767
             177744
             1627Ø4
             12
             207
             6Ø67
             177732
             103766
             6167
             177724
             100403
             5726
             167
             175524
             4567
             174134
             100030
             ^Z
                                                     (up-arrow/Z)
             13Ø7Ø
             5713
^Z
                                                     (up-arrow/Z)
             14576
             45Ø2
```

Seq 7.10.2 M

3 of 3

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

@LIBR.ØØ2

^Z

23166 177Ø32 ^Y

140001

The resulting version of the utility will be LIBR VØ4.00B.

(up-arrow/Z)

(up-arrow/Y)

(up-arrow/C)

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

RT-11 V4.Ø Spooling Package QUEUE.REL Seq 16.1.2 F

1 of 1

NARROW BANNER PAGES FROM QUEUE (LCP)

QUEUE outputs banner pages formatted for 11" x 14" forms. The following patch will cause QUEUE to output banner pages formatted for 9 1/2" wide forms. Note that once patched, QUEUE will only output the narrow banner pages. If both sizes of forms are used, keep a backup copy of QUEUE.REL (unpatched) to use with standard, 11" x 14" forms.

1. The following is a feature patch to the QUEUE.REL utility program (previously modified in Seq $6.12.1\ M$).

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

2. This patch is installed using SIPP, the Save Image Patching Program. First, ensure that a copy of the file QUEUE.REL is on a mounted volume. Create the file, QUEUE.002 as follows. Replace 'DK:' in the patch below with the name of the device that contains the program file.

```
R SIPP
QUEUE.REL/C
4600
53
15
12
Ø
^Z
                                        (up-arrow/Z)
242
5Ø15
^Z
                                        (up-arrow/Z)
^ Z
                                        (up-arrow/Z)
1243Ø
Ø
24Ø
^Y
                                        (up-arrow/Y)
525Ø2
^C
                                        (CTRL/C to exit)
```

To apply the patch to QUEUE.REL type:

@QUEUE.ØØ2

There is no new version number for QUEUE.REL.

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

BASIC-11/RT-11 V2.Ø for RT-11 V4

Seq. 35.1.23 N

Page 1 of 1

PROBLEM WITH BASIC-11 PATCH Q

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

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

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

BASIC-11 V2.Ø for RT-11 V4.Ø DOCUMENTATION Seq 35.3.9 N

l of l

NEW MANUAL AVAILABLE FOR BASIC-11/RT-11 (FM)

A new manual is now available for BASIC-11/RT-11: BASIC-11/RT-11 Installation Guide and Release Notes; Order No. AA-K724A-TC.

This manual supersedes the BASIC-11/RT-11 Installation Guide (DEC-11-LIBTA-A-D) and its update (DEC-11-LIBTA-A-DN1). The new manual describes the procedure for installing BASIC-11 on Version 4 of RT-11, and documents corrections made to BASIC-11.

MU BASIC-11/RT-11 V2.Ø for RT-11 V4 INTERPRETER MUBS 1. OBJ, MUBS 1X. OBJ Seq 36.1.27 M

1 of 2

CARD READER EOF - PATCH X FOR MULTI USER BASIC-11

Problem:

If successive programs are read into MU BASIC using the command "OLD CR: PROG" with EOF cards between the programs, the EOF is not recognized properly and the first card of the next program is lost.

Procedure:

 Create the two files PAØØX1.MAC and PAØØX2.MAC as shown below:

PAØØX1.MAC

.TITLE MUBS1 .CSECT MUBS1 LOC= .

SURWØ = LOC+1546 CHKEOF = LOC+6324 BLOCEX = LOC+6266 .= LOC+6166

JMP PAØØX

PAØØXA:

105:

.PSECT PAØØX, RO, I

.GLOBL PAØØX

PAØØX: JSR PC, CHKEOF

BCC 1Ø\$
RTS PC

RTS PC

JSR PC, SURWØ

JMP PAØØXA

.END

PAØØX2.MAC

.TITLE BSPAT

.PSECT BASPCH, RO, I

.= .+4 .ASCII /ØX/

MU BASIC-11/RT-11 V2.Ø for RT-11 V4 INTERPRETER MUBS 1. OBJ, MUBS 1X. OBJ

Seq 36.1.27 M 2 of 2

2. Assemble the two files:

.MACRO PAØØX1 .MACRO PAØØX2

3. Run the RT-11 program PAT:

.R PAT *MUBS1, PAØØX1

.R PAT *MUBS1X=MUBS1X, PAØØX1

.R PAT *BSPAT=BSPAT, PAØØX2

4. Relink MU BASIC-11 using a LINK indirect command file (e.g., MUBAS.COM). This will create version 2.0% of multi user BASIC-11.

MU BASIC-11/RT-11 V2.0 for RT-11 V4 INTERPRETER MUBS 1.0BJ, MUBS 1X.0BJ, MUBS 3.0BJ Seq 36.1.28 M

1 of 2

CLOSE GIVES ILLEGAL FILES SPEC - PATCH Y FOR MULTI USER BASIC-11

Problem:

If one user is opening and closing several virtual arrays and another user is opening, accessing, and closing a regular data file, a spurious "ILLEGAL FILE SPECIFICATION" error may occur.

Procedure:

1. Create the three files PAØØY1.MAC, PAØØY2.MAC, and PAØØY3.MAC as shown below:

PAØØY1.MAC

.TITLE MUBS1 .CSECT MUBS 1

.GLOBL PAØØY1, PAØØY2, SETOVL, FAC2

LOC =

LOC+1776 . =

JMP PAØØY2

PAØØY1:

. PSECT PAØØØY, RO, I

PAØØY2: JSR

PC, SETOVL

RØ, MOV

FAC2(R5) JMP PAØØY1

.END

PAØØY2.MAC

.TITLE MUBS3

. PSECT BASSCD, RO, I

.GLOBL PAØØY2

LOC=.

.=LOC+1156

NOP

NOP

NOP

NOP

.=LOC+1172

JMP PAØØY2

MU BASIC-11/RT-11 V2.0 for RT-11 V4 INTERPRETER MUBS 1.0BJ, MUBS 1X.0BJ, MUBS 3.0BJ Seq 36.1.28 M 2 of 2

PAØØY3.MAC

.TITLE BSPAT
.PSECT BASPCH, RO, I
.= .+4
.ASCII /ØY/

2. Assemble the three files:

- .MACRO PAØØY1 .MACRO PAØØY2 .MACRO PAØØY3
- 3. Run the RT-11 program PAT:
 - .R PAT
 *MUBS 1 = MUBS 1, PAØØY 1
 - .R PAT
 *MUBS 1X=MUBS 1X, PAØØY 1
 - .R PAT *MUBS3=MUBS3, PAØØY2
 - .R PAT *BSPAT=BSPAT, PAØØY3
- 4. Relink MU BASIC-11 using a LINK indirect command file (e.g., MUBAS.COM). This will create version 2.0Y of multi user BASIC-11.

MU BASIC-11/RT-11 V2.Ø for RT-11 V4 INTERPRETER BSFUNC.OBJ Seq 36.1.29 M

1 of 2

TTYSET GIVES TRAP TO 10 - MU BASIC PATCH Z

Problem:

If the statement A=TTYSET(x,y) is executed and x is greater than 255, MUBASIC will trap to 10.

Procedure:

1. Create the three files PAØØZ1.MAC, PAØØZ2.MAC, and PAØØZ3.MAC as shown below:

PAØØZ 1.MAC

.TITLE BSFUNC

.PSECT BSFDSP, RW, D

.GLOBL PAØØZ1, PAØØZ2, PAØØZ3

LOC = .

.=LOC+1214

PAØØZ3:

.=LOC+1226

JMP PAØØZ2

PAØØZ1:

.END

PAØØZ2.MAC

.PSECT OPFNID, RO, I

.GLOBL FAC2, PAØØZ1, PAØØZ2, PAØØZ3

.PSECT PAØØØZ,RO,I

PAØØZ2: CMP FAC2(R5), #255.

BHIS 1Ø\$

MOV #254., R3

JMP PAØØZ 1

1Ø\$: JMP PAØØZ3

.END

PAØØZ3.MAC

.TITLE BSPAT

.PSECT BASPCH, RO, I

. = . +4

.ASCII /ØZ/

MU BASIC-11/RT-11 V2.Ø for RT-11 V4 INTERPRETER BSFUNC.OBJ

Seq 36.1.29 M 2 of 2

- 2. Assemble the three files:
 - .MACRO PAØØZ1 .MACRO PAØØZ2 .MACRO PAØØZ3
- 3. Run the RT-11 program PAT:
 - .R PAT *BSFUNC=BSFUNC, PAØØZ 1
 - .R PAT *MUOFID, PAØØZ2
 - .R PAT *BSPAT=BSPAT, PAØØZ3
- 4. Relink MU BASIC-11 using a LINK indirect command file (e.g., MUBAS.COM). This will create version 2.0Z of multi user BASIC-11.

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

Seq 45.2.5 M

OTS

1 of 2

This article is being republished for sequencing purposes only.

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

PROBLEM:

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

SOLUTION:

1. Type in the following MACRO file: PATØ7.MAC

PATØ7.MAC:

.TITLE \$OPEN .IDENT /006/

.PSECT OTS\$0

S=.

.=S+55Ø

BIT #3200, @R0

.END

2 Assemble the patch using MACRO-11

```
.R MACRO.SAV
*PATØ7=PATØ7
*^C
```

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

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

```
.R PAT
```

*OTSCOM=OTSCOM/C: 151756, PATØ7/C:65Ø3

FORTRAN IV V2.5 for RT-11 V4.0 OTS Seq 45.2.5 M

2 of 2

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

WRITE(21,1)

- format('ØWHEN ZERO DOES NOT APPEAR AS THE FIRST')
 WRITE(21,2)
- 2 FORMAT(' CHARACTER ON THE LINE ABOVE THE PATCH IS SUCCESSFUL')
 FND

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

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

RT-11 V4.0 CUMULATIVE INDEX MAY 1981

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

IMPORTANT!

Unassigned articles are indicated: UNASSIGNED.

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

- M = <u>Mandatory Patch</u>. These patches correct errors in the software product. All users are required to apply these patches to maintain consistent "user level" unless the accompanying article specifies otherwise.
- F = Optional Feature Patch. These patches extend or configure functionality into the product. These functions will be treated as a supported part of the product for the duration of the current release and will be incorporated with any future release, unless otherwise stated.
- R = Restriction. These articles discuss areas that will not be patched in the current release because they require major modification or because they are not consistent with the design of the product. Restrictions, except those described as permanent, are reviewed and modified when possible as part of the normal release cycle.
- N = NOTE. These articles provide explanatory information that supplements the manual set and provide more detailed information about a program or package. They also provide procedural information to make it easier to use a program or package.
- + = Articles appeared in the RT-11 Software Dispatch Review, March 1980.

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

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		1.1.13 M	Jan 81
MONITOR UPDATES		1.1.14 M	Feb 81
ABORT I/O IN PROGRESS HANDLER BIT		1.1.15 M	Apr 81
DEVICE HANDLER SOURCES			
DEVICE HANDLER NOTES			
RLO2s AT REV. LEVEL "F" FAIL DURING RT-11 SYSGEN		6.1.1 N	Oct 80

Component	Autopatch Kit	Sequence	Mon/Yr
DD.MAC DD PRIMARY BOOTSTRAP PROBLEM	A	6.4.1 M	Jul 80
DL.MAC PATCH XM VERSION OF DL HANDLER .SPFUN GET SIZE ROUTINE ERRORS ON RLO1 DISK DRIVES AFTER DISK PACKS ARE CHANGED	A A	6.5.1 M 6.5.2 M	Dec 80 Jan 81
DM.MAC ERRORS IN DM OFFSET POSITIONING AND ERROR LOGGING	A	6.6.1 M	Jul 80
LP.MAC LP SET NOHANG MAY CRASH SYSTEM	A	6.12.1 M	Sep 80
LS.MAC LS SET NOHANG MAY CRASH SYSTEM PROBLEMS WITH LS HANDLER	A A	6.13.1 M 6.13.2 M	Sep 80 Jan 81
PD.MAC CORRECTION TO PDT ERROR LOGGING SUPPORT		6.16.1 M	Apr 81
MAG TAPE HANDLERS BUFFER CLEARING ON SHORT READ IN XM MONITOR LINKING AN XM, NON-FILESTRUCTURED TS HANDLER GENERATES	A	6.20.1 M	Jul 80
AN UNDEFINED GLOBAL INCORRECT READ ERROR RECOVERY IN MT HANDLER	A A	6.20.2 M 6.20.3 M	Aug 80 Sep 80
SYSTEM UTILITIES PIP.SAV			
ERRORS IN PIP COPY/PREDELETE COMMAND MATCHING FILE SPEECIFICATIONS ERRORS COPY/BINARY/WAIT AND LOG HEADER PROBLEMS	A	7.1.1 M 7.1.2 N 7.1.3 M 7.1.4 M	Sep 80 Sep 80 Feb 81 Apr 81
DUP.SAV MISSING COLON IN BOOT XX CAUSES SYSTEM HALT SQUEEZE CREATES <unused> ENTRIES OF LENGTH ZERO BEFORE</unused>	A	7.2.1 M	Jul 80
BAD FILES PROBLEMS WITH COPY/DEVICE AND INITIALIZE BOOTSTRAPPING AN UNPATCHED MONITOR FROM A PATCHED SYSTEM SPFUN RETURN BUFFER PROCESSED INCORRECTLY FOR RK06/7 USE OF INITIALIZE/RESTORE ON MEDIA SUPPORTING BAD	A A	7.2.2 M 7.2.3 M 7.2.4 N 7.2.5 M	Aug 80 Dec 80 Jan 81 Jan 81
BLOCK REPLACEMENT PROBLEMS WITH INIT/BAD AND COPY/DEVICE		7.2.6 N 7.2.7 M	May 81 May 81
DIR.SAV DIR/OUT COMMAND PRODUCES DEVICE NOT ACTIVE MESSAGE DIR/VOL GIVES ?MON-F-TRAP TO 4	A A	7.3.1 M 7.3.2 M	Jul 80 Dec 80
RESORC.SAV RESORC MAY REPORT INCORRECT JOB NAMES ON A SHOW JOBS COMMAND ADD CIS DETECTION CAPABILITY TO RESORC	A	7.5.1 M 7.5.2 M	Aug 80 May 81
LINK.SAV LINK BYTE RELOCATION AND DIRECTORY SIZE LINK MAP PROCESSING ERROR LINK MAP ERROR AND MULTIPLE DEFINITION LIBRARIES RT-11 V4 LINKER RESTRICTION LINK TRANSFER ADDRESS CALCULATION BUGS	A A A	7.9.1 M 7.9.2 M 7.9.3 M 7.9.4 R 7.9.5 M	Jul 80 Aug 80 Oct 80 Jan 81 Mar 81
LIBR.SAV A LIBR COMMAND WITH NO FILE-SPEC CAN CAUSE A SYSTEM CRASH LIBR ERRORS	A	7.10.1 M 7.10.2 M	Jul 80 May 81
FILEX.SAV FILEX WILDCARD TRANSFERS CAUSE MONITOR TRAP FILEX CREATES ZERO FILLED INTERCHANGE RECORDS	A A	7.11.1 M 7.11.2 M	Aug 80 Sep 80
SRCCOM.SAV COMPARING TWO FILES MAY CAUSE TRAP TO 4 BLANK LINE COMPARISON FOR SLIDING MATCH	A A	7.12.1 M 7.12.2 M	Aug 80 Dec 80

Component	Autopatch Kit	Sequence	Mon/Yr
BINCOM.SAV BINCOM GENERATES ERRONEOUS ERROR MESSAGE		7.13.1 M	Apr 81
SLP.SAV TERMINATION OF PATCHING SESSION WITH SLP FATAL ERRORS SLP GENERATES FATAL ERROR TRAP SLP ERROR	A	7.15.1 M 7.15.2 M 7.15.3 M	Nov 80 Jan 81 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		7.20.1 M	Jan 81
SYSTEM SUBROUTINE LIBRARY (SYSLIB) SYSLIB.OBJ PATCH TO ICSI TASSICN DEDEENITIONS	A A	8.1.1 M 8.1.2 M	Oct 80 Oct 80
IASIGN REDEFINITIONS ILUN RESTRICTION	n	8.1.3 R	Feb 81
SYSTEM MACRO LIBRARY SPFUN PROGRAMMED REQUEST ABORT I/O PROGRESS SUPPORT FOR SYSMAC	A	9.1.1 M 9.1.2 M	Dec 80 Apr 81
SYSTEM GENERATION PACKAGE SYSGEN CREATES ONE MORE DEVICE SLOT THAN REQUESTED ASSEMBLY ERROR AFTER SYSGEN	A	10.3.1 M 10.3.2 M	Dec 80 Mar 81
DOCUMENTATION RT-11 SYSTEM RELEASE NOTES RT-11 V4.0 DOCUMENTATION CORRECTIONS AND ADDITIONS DOCUMENTATION CORRECTIONS CHANGES TO DUP /I OPTION		11.2.1 N 11.2.2 N 11.2.3 N	Jul 80 Aug 80 Apr 81
RT-11 INSTALLATION AND SYSTEM GENERATION GUIDE RT-11 V4.0 DOCUMENTATION CORRECTIONS AND ADDITIONS CORRECTION TO AN OPTIONAL PATCH TO LINK DOCUMENTATION ERROR: REFERENCE TO RL02 OMITTED FROM SYSGEN DIALOGUE		11.3.1 N 11.3.2 N 11.3.3 N	Jul 80 Aug 80 Oct 80
INCORRECT LINK MAPS FOR DISTRIBUTED MONITORS INCORRECT PATCH FOR CHANGING QUEUE WORK FILE SIZE CHANGING DEFAULT NUMBER OF DIRECTORY SEGMENTS		11.3.4 N 11.3.5 N 11.3.6 N	Dec 80 Dec 80 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 CORRECTIONS TO SLP CHAPTER: RT-11 SYSTEM USER'S GUIDE DIFFERENCES BETWEEN DEVICE COPYING COMMANDS		11.5.1 N 11.5.2 N 11.5.3 N	Jul 80 Oct 80 Dec 80
RT-11 SYSTEM MESSAGE MANUAL RT-11 V4.0 DOCUMENTATION CORRECTIONS AND ADDITIONS CORRECTIONS TO SLP MESSAGES IN "RT-11 SYSTEM MESSAGE MANUAL" NEW SLP ERROR MESSAGE		11.6.1 N 11.6.2 N 11.6.3 N	Jul 80 Nov 80 Feb 81
RT-11 POCKET GUIDE RT-11 V4.0 DOCUMENTATION CORRECTIONS AND ADDITIONS		11.7.1 N	Jul 80
RT-11 PROGRAMMER'S REFERENCE MANUAL DOCUMENTATION CORRECTIONS INCORRECT PROGRAMMED REQUEST EXAMPLES		11.8.1 N 11.8.2 N	Sep 80 Mar 81

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Component	Autopatch Kit	Sequence	Mon/Yr
RT-11 SOFTWARE SUPPORT MANUAL RT-11 V4.0 DOCUMENTATION CORRECTIONS AND ADDITIONS		11.9.1 N	Jul 80
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		16.1.1 M 16.1.2 F	Mar 81 May 81
NARROW BANNER PAGES FROM QUEUE		10.1.2 r	nay 01
QUEMAN.SAV PROBLEMS WITH QUEMAN		16.2.1 M	Jan 81
KEYPAD EDITOR			
KED MAKE TERMINAL SETUP OPTIONAL IF MTATCH FAILS	A	17.1.1 F	Aug 80
PROVIDE A .CHAIN INTERFACE FOR KED PROVIDE REASONABLE ACTIONS AND ERROR MESSAGES WHEN DEALING	A	17.1.2 F	Aug 80
WITH DEGENERATE FILES SEARCH FAILS IF TARGET IF FIRST OR LAST STRING IN THE FILE	A A	17.1.3 M 17.1.4 M	Oct 80 Nov 80
KNOWN ERRORS AND RESTRICTIONS		17.1.5 R	Dec 80
K52 MAKE TERMINAL SETUP OPTIONAL IF MTATCH FAILS	A	17.2.1 F	Aug 80
PROVIDE A .CHAIN INTERFACE FOR K52 PROVIDE REASONABLE ACTIONS AND ERROR MESSAGES WHEN DEALING	A	17.2.2 F	Aug 80
WITH DEGENERATE FILES SEARCH FAILS IF TARGET IS FIRST OR LAST STRING IN THE FILE KNOWN ERRORS AND RESTRICTIONS	A A	17.2.3 M 17.2.4 M 17.2.5 R	Oct 80 Nov 80 Dec 80
EMC 44/DT 44 V4 4			
FMS-11/RT-11 V1.1 ANNOUNCING FMS-11/RT-11 V1.1		33.1 N	Aug 80
ANNOUNCING PMS-II/ RI-II VI.I))• i ii	nug oo
BASIC-11/RT-11 V2.0)		
INTERPRETER REPUBLICATION OF PATCHES		35.1.1 N+	Mar 80
PRINT USING - PATCH A RESEQ - PATCH B	A A	35.1.2 M+ 35.1.3 M+	Mar 80 Mar 80
EDITING A DIM #n STATEMENT - PATCH C	A	35.1.4 M+	Mar 80
DOUBLE PRECISION HANG - PATCH D SAVE dev: AND REPLACE dev: - PATCH E	A A	35.1.5 M+ 35.1.6 M+	Mar 80 Mar 80
SINGLE PRECISION HANG AND NUMERIC CONVERSION PROBLEM - PATCH		35.1.7 M+	Mar 80
SAVE .XXX & UNSAVE .XXX - PATCH G NEW - PATCH H	A A	35.1.8 M+ 35.1.9 M+	Mar 80 Mar 80
RESEQ - PATCH I	A	35.1.10 M+	Mar 80
LISTNH / OLD - PATCH J	A A	35.1.11 M+ 35.1.12 M+	Mar 80 Mar 80
SYS(1) - PATCH K 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 INTEGERS IN DOUBLE PRECISION BASIC-11	A	35.1.15 M+ 35.1.16 N+	Mar 80 Mar 80
REM STATEMENTS ON MULTI-STATEMENT LINES - PATCH 0	A	35.1.10 N+	Mar 80
INT FUNCTION - PATCH P FOR SINGLE USER BASIC-11	A	35.1.18 M	Nov 80
"OLD" OF COMPILED PROGRAM - PATCH Q FOR SINGLE USER BASIC-11 PRINT USING - PATCH R FOR SINGLE USER BASIC-11		35.1.19 M 35.1.20 M	Jan 81 Jan 81
OMITTING TRIG FUNCTIONS FROM BASIC-11		35.1.21 N	Jan 81
STRING CONCATENATION - PATCH S FOR SINGLE USER BASIC-11		35.1.22 M	Mar 81
PROBLEM WITH BASIC-11 PATCH Q		35.1.23 N	May 81

CONVENSION PROGRAM 35,2.1 M+ Mar 80	Component	Autopatch Kit	Sequence	Mon/Yr
DOCUMENTATION STATE STAT	UTILITIES			
DOCUMENTATION STATE CONTROL AND SYS(6) FUNCTIONS AND THE STATE			-	
OVERLATING WHILE IN A SUBROUTINE OPERATION GO CTRILC, RCTRIC AND SYS(6) FUNCTIONS AND THE CTRIL/C COMMAND OPERATION GO CID, RUN, CHAIN, AND OVERLAY WHEN THE SPECIFIED FILE IS MOT FOUND CREATING AND ACCESSING VIRTUAL ARRAY FILES STORAGE OF THE NULL CHARACTER IN STRING VARIABLES AND VIRTUAL STRING RARBAYS USE OF COMPILE COMMAND MALHOM ARRAY SUBSCRIPT SIZE STRING RARBAYS MALHOM ARRAY SUBSCRIPT SIZE MALHOM ARRAY SUBSCRIPT SIZE WISE MARGAL AVAILABLE FOR BASIC-11/RT-11 V2.0 ***INTERPRETER** CHAINING WITH COMMON - PATCH A VALUES IN FAICHES A, B, C STS(1, D) FUNCTION - PATCH B SYS(1, D) FUNCTION - PATCH B SYS(1, D) FUNCTION - PATCH C STRING ARRAY SUBSCRIPT SIZE WISE SIZE AND STRING WARRAND SIZE CALL - PATCH B SYS(1, D) FUNCTION - PATCH B SYS(1, D) FUNCTION - PATCH C SCALL - PATCH B SYS(1, D) FUNCTION - PATC	BASIC-11/RI-11 V2 CONVERSION PROGRAM PATCH 1		35.2.2 M+	Mar 80
OPERATION OF CTELC, RCTRLC AND STS(6) FUNCTIONS AND THE CTEL/C COMMAND OPERATION GF CLD, RUN, CHAIN, AND OVERLAY WHEN THE SPECIFIED FILE IS NOT TOUGH IS NOT TOUGH NOLL CHAIN, AND OVERLAY WHEN THE SPECIFIED FILE STRING ARRAYS MAY AND ACCESSING VIRTUAL ARRAY FILES STRING ARRAYS STRING ARRAYS STRING ARRAYS STRING ARRAYS MAY AND ACCESSING VIRTUAL ARRAY FILES STRING ARRAYS MAXIMUM ARRAY SIBSCRIFT SIZE MU BASIC-11/RT-11 V2.0 MU BASIC-11/RT-11 V2.0 MU BASIC-11/RT-11 V2.0 MU BASIC-11/R				
STAIL COMMAND STAIL N. CHAIN, AND OVERLAY WHEN THE SPECIFIED FILE IS NOT FOUND STAIL N. MAR 80 OPERATION OF FOLD, RUN, CHAIN, AND OVERLAY WHEN THE SPECIFIED FILE IS NOT FOUND STAIL N. MAR 80 STORGE OF THE NULL CHARACTER IN STRING VARIABLES AND VIRTUAL STRING ARCASTER STRING ARCASTER STRING ARCASTER STAIL CHARACTER IN STRING VARIABLES AND VIRTUAL STRING ARCASTER STAIL CHARACTER IN STRING VARIABLES AND VIRTUAL STRING ARCASTER STAIL CHARACTER IN STRING ARCASTER STRING ARCASTER STAIL CHARACTER IN STRING VARIABLES AND VIRTUAL STRING ARCASTER STAIL CHARACTER			35.3.1 R+	Mar 80
OPERATION OF OLD, RUN, CHAIN, AND OVERLAY WHEN THE SPECIFIED FILE 35.3.3 N+ Mar 80 STORAGE OF THE NULL CHARACTER IN STRING VARIABLES AND VIRTUAL STRING ARRAYS 35.3.4 N+ Mar 80 STORAGE OF THE NULL CHARACTER IN STRING VARIABLES AND VIRTUAL STRING ARRAYS 35.3.5 N+ Mar 80 SISCORAGE OF THE NULL CHARACTER IN STRING VARIABLES AND VIRTUAL STRING MARRAYS 35.3.5 N+ Mar 80 STRING MARTPULATION IN ASSEMBLY LANGUAGE ROUTINES 35.3.7 N+ Mar 80 MARIMUM ARRY SUBSCRIPT SIZE S5.3.8 N+ Mar 80 MARIMUM ARRY SUBSCRIPT SIZE S5.3.8 N+ Mar 80 MARIMUM ARRY SUBSCRIPT SIZE S5.3.9 N May 81 STRING MARTPULATION IN ASSEMBLY LANGUAGE ROUTINES S5.3.9 N May 81 STRING MARTPULATION IN ASSEMBLY LANGUAGE ROUTINES S5.3.9 N May 81 STRING MARTPULATION IN ASSEMBLY LANGUAGE ROUTINES S5.3.9 N May 81 STRING MARTPULATION IN ASSEMBLY LANGUAGE ROUTINES S5.3.9 N May 81 STRING MARTPULATION IN ASSEMBLY LANGUAGE ROUTINES S5.3.9 N May 81 STRING MARTPULATION IN ASSEMBLY LANGUAGE ROUTINES S5.3.9 N May 81 STRING MARTPULATION IN ASSEMBLY STRING MARTPULATION IN ASSEM			35 3 2 NT	Mar 80
CREATING AND ACCESSING VIRTUAL ARRAY FILES 35.3,4 N+		FILE	JJ.J.2 NT	nai 00
STORAGE OF THE NULL CHARACTER IN STRING VARIABLES AND VIRTUAL 35.3.5 N+ Mar 80 USE OF COMPILE COMMAIND 35.3.6 N+ Mar 80 USE OF COMPILE COMMAIND 35.3.6 N+ Mar 80 35.3.7 N+ Mar 80 35.3.7 N+ Mar 80 35.3.7 N+ Mar 80 35.3.8 N+ Mar			-	
STRING MARRAYS			35.3.4 N+	Mar 80
USE OF COMPILE COMMAND STRING MARIPULATION IN ASSEMBLY LANGUAGE ROUTINES \$53.3.7 N + Mar 80 MAXIMUM ARRAY SUBSCRIPT SIZE **MUBASIC-11/RT-11 V2.0** **MUBA	STRING ARRAYS		35.3.5 N+	Mar 80
MAXIMUM ARRAY SUBSCRIPT SIZE 35.3.8 N+ May 80			35.3.6 N+	
NEW MANUAL AVAILABLE FOR BASIC-11/RT-11 MU BASIC-11/RT-11 V2.0 INTERPRETER	STRING MANIPULATION IN ASSEMBLY LANGUAGE ROUTINES			
MU BASIC-11/RT-11 V2.0 INTERPRETER CHAINING WITH COMMON - PATCH A VIRTUAL FILE L/O - PATCH B SIS(1,0) FUNCTION - PATCH C SIS(1,0) FUNCTION - PATCH C 36.1.3 M+ Mar 80 SIS(1,0) FUNCTION - PATCH C 36.1.3 M+ Mar 80 VALUES IN PATCHES A, B, C 36.1.5 N+ Mar 80 VALUES IN PATCHES A, B, C 36.1.5 N+ Mar 80 CALL - PATCH F 36.1.6 M+ Mar 80 CALL - PATCH F 36.1.7 M+ Mar 80 CALL - PATCH F 36.1.8 M+ Mar 80 CALL - PATCH F 36.1.8 M+ Mar 80 INPUT #/PRINT # - PATCH H 36.1.9 M+ Mar 80 ADDITION TO PATCH B - PATCH I 36.1.10 M+ Mar 80 ADDITION TO PATCH B - PATCH J BEVICE MEMBONIC PROBLEM - PATCH K CLOSE - PATCH L 36.1.11 M+ Mar 80 CLOSE - PATCH L 36.1.12 M+ Mar 80 CLOSE - PATCH L 36.1.12 M+ Mar 80 CLOSE - PATCH L 36.1.13 M+ Mar 80 DEASSIGNING A TERNINAL - PATCH N UNE CF SYS(1,n) FUNCTION WHEN ',n' IS ONITTED - PATCH O DISABLING CR/LF USING NITYSET - PATCH P ADDITION TO PATCH S FOR MULTI-STREAMSIC-11 SISSIONING A TERNINAL - PATCH N UNE CF SYS(1,n) FUNCTION WHEN ',n' IS ONITTED - PATCH O DISABLING CR/LF USING NITYSET - PATCH P HANDLER FETCH ERROR MAY LEAD TO MONITOR FAULT - PATCH Q BANDLER FETCH ERROR MAY LEAD TO MONITOR FAULT - PATCH Q ADDITING THE PATCH R FOR MULTI-USER BASIC-11 SISSI(1) FUNCTION - PATCH S FOR M				<u>.</u> .
INTERPRETER			33.3.7	naj o.
CHAINING WITH COMMON — PATCH A 36.1.1 M+ Mar 80 STS(1,n) FUNCTION — PATCH B 36.1.2 M+ Mar 80 STS(1,n) FUNCTION — PATCH C 36.1.3 M+ Mar 80 STS(1,n) FUNCTION — PATCH C 36.1.4 M+ Mar 80 VALUES IN PATCHES A, B, C 36.1.5 N+ Mar 80 VALUES IN PATCHES A, B, C 36.1.5 N+ Mar 80 CALL — PATCH E 36.1.5 M+ Mar 80 CALL — PATCH E 36.1.7 M+ Mar 80 CALL — PATCH F 36.1.7 M+ Mar 80 CALL — PATCH F 36.1.7 M+ Mar 80 CALL — PATCH F 36.1.7 M+ Mar 80 CALL — PATCH H 36.1.9 M+ Mar 80 CALL — PATCH H 36.1.10 M+ Mar 80 CALL — PATCH H 36.1.10 M+ Mar 80 CALL — PATCH H 36.1.10 M+ Mar 80 CALL — PATCH B — PATCH J 36.1.11 M+ Mar 80 CALL — PATCH B — PATCH J 36.1.11 M+ Mar 80 CALL — PATCH B — PATCH J 36.1.13 M+ Mar 80 CALL — PATCH B — PATCH J 36.1.13 M+ Mar 80 CALL — PATCH B — PATCH J 36.1.13 M+ Mar 80 CALL — PATCH B — PATCH J 36.1.14 M+ Mar 80 CALL — PATCH B — PATCH J 36.1.14 M+ Mar 80 CALL — PATCH B — PATCH J 36.1.14 M+ Mar 80 CALL — PATCH B — PATCH	MU BASIC-11/RT-11 V2	.0		
VIRTUAL FILE I/O - PATCH B 36, 1, 2 M+ Mar 80 875(1, n) PURCOTION - PATCH C 36, 1, 3 M+ Mar 80 825(1, n) PURCOTION - PATCH C 36, 1, 5 M+ Mar 80 80, 1, 7 M+ Mar 80 80, 1, 1, 1 M+ Mar 80	INTERPRETER			
VIRTUAL FILE I/O - PATCH B 36.1.2 M+	CHAINING WITH COMMON - PATCH A		36.1.1 M+	Mar 80
RESSG - PATCH D VALUES IN PATCHES A, B, C VALUES IN PATCHE S 36.1.5 N+ Mar 80 CALL - PATCH F 36.1.7 M+ Mar 80 ODUBLE 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 36.1.9 M+ Mar 80 ADDITION TO PATCH B - PATCH J DEVICE MNEMONIC PROBLEM - PATCH K 36.1.10 M+ Mar 80 ADDITION TO PATCH B - PATCH J DEVICE MNEMONIC PROBLEM - PATCH K 36.1.13 M+ Mar 80 CLOSE - PATCH L 36.1.13 M+ Mar 80 EASSIGNING A TERMINAL - PATCH N SEASTATEMENTS ON MULTI-STATEMENT LINES - PATCH M DEASSIGNING A TERMINAL - PATCH N USE OF SYS(1,n) FUNCTION WHEN ',n' IS OMITTED - PATCH O DISABLING CR/LF USING TITSET - PATCH P HANDLER FETCH ERROR MAY LEAD TO MONITOR FAULT - PATCH Q DISABLING CR/LF USING TITSET - PATCH P HANDLER FETCH ERROR MAY LEAD TO MONITOR FAULT - PATCH Q SALI 1.19 M+ Mar 80 INT FUNCTION - PATCH S 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 INT FUNCTION - PATCH S FOR MULTI-USER BASIC-11 36.1.22 M Apr 81 "OLD" OC COMPILED PROGRAM - PATCH U FOR MULTI USER BASIC-11 36.1.22 M Apr 81 "OLD" OC COMPILED PROGRAM - PATCH U FOR MULTI USER BASIC-11 36.1.22 M Apr 81 "OLD THE STRIP TO 10 - MU BASIC PATCH Z 36.1.26 M Mar 81 TISSET GIVES TRAP TO 10 - MU BASIC PATCH Z WILLIESS MU BASIC-11/RT-11 V2 CONFIGURATION PROGRAM PATCH 1 STRING CONCATENATION - PATCH S FOR FOR MULTI USER BASIC-11 36.1.26 M Mar 81 **CLOSE GIVES ILLEGAL FILES SPEC - PATCH Y FOR MULTI USER BASIC-11 36.1.26 M Mar 81 **CLOSE GIVES ILLEGAL FILES SPEC - PATCH Y FOR MULTI USER BASIC-11 **GLOW ON CARD READER FOR PATCH T FOR MULTI USER BASIC-11 **GLOW ON CARD READER FOR PATCH T FOR MULTI USER BASIC-11 **GLOW ON CARD READER FOR PATCH T FOR MULTI USER BASIC-11 **GLOW ON CARD READER FOR PATCH T FOR MULTI USER BASIC-11 **GLOW ON CARD READER FOR PATCH T FOR MULTI USER BASIC-11 **GLOW ON CARD READER FOR PATCH T FOR MULT			36.1.2 M+	Mar 80
VALUES IN PATCHES A, B, C LISTNH / OLD — PATCH E CALL — PATCH F CALL — PATCH B CALL — PATCH F COUBLE PRECISION INTEGER VARIABLES — PATCH G CALL — PATCH H CALL — PATCH J CALL — PATCH L CALL — PATCH			• • •	_
LISTNH / OLD - PATCH E CALL - PATCH F CALL - PATCH F CALL - PATCH F DOUBLE PRECISION INTEGER VARIABLES - PATCH G CALL - PATCH H DOUBLE PRECISION INTEGER VARIABLES - PATCH G DOUBLE PRECISION INTEGER VARIABLES - PATCH G ASC.1.8 MH MAR 80 INPUT #/PRINT # - PATCH H ASC.1.9 MH MAR 80 ADDITION TO PATCH B - PATCH J SCOURS - PATCH L BEVICE NUMBONIC PROBLEM - PATCH K CLOSE - PATCH B - PATCH K CLOSE - PATCH L REM STATEMENTS ON MULTI-STATEMENT LINES - PATCH M REM STATEMENTS ON MULTI-STATEMENT LINES - PATCH M REM STATEMENTS ON MULTI-STATEMENT LINES - PATCH M SEASTIGNING A TERMINAL - PATCH N INTEGERS IN DOUBLE PRECISION MU BASIC-11 USE OF SYS(1, n) FUNCTION WHEN ',n' IS OMITTED - PATCH O SCOURS (1, n) FUNCTION WHEN ',n' IS OMITTED - PATCH O ASC.1.17 MH MAR 80 DISABLING CR/LF USING TYYSET - PATCH P HANDLER FETCH ERROR MAY LEAD TO MONITOR FAULT - PATCH Q REMOTE LINES - PATCH R FOR MULTI-USER BASIC-11 SCOURS OF SYS(1, n) FUNCTION PHEN ', n' IS OMITTED - PATCH Q REMOTE LINES - PATCH R FOR MULTI-USER BASIC-11 SCOURS OF SYS(1, n) FUNCTION PHEN ', n' IS OMITTED ', n' IS OMI				
CALL - PATCH F JOUBLE PRECISION INTEGER VARIABLES - PATCH G JOUBLE PRECISION INTEGER VARIABLES - PATCH H JOUBLE PRECISION INTEGER VARIABLES - PATCH H JOUBLE PRECISION INTEGER VARIABLES - PATCH H JOUBLE PRECISION MUDIC PROBLEM - PATCH J JOUBLE PRECISION MULTI - STATEMENT LINES - PATCH M JOEVICE MNEMONIC PROBLEM - PATCH K LOSE OF ATCH L REM STATEMENTS ON MULTI - STATEMENT LINES - PATCH M JOEASSIGNING A TERMINAL - PATCH N JOEA				-
INPUT #/PRINT # - PATCH H OLD OF A ZERO BLOCK FILE - PATCH I ADDITION TO PATCH B - PATCH J ADDITION TO PATCH B - PATCH K ADDITION TO PATCH B - PATCH K CLOSE - PATCH L S6.1.12 M+ Mar 80 BEVICE MREMONIC PROBLEM - PATCH K 36.1.12 M+ Mar 80 CLOSE - PATCH L S6.1.3 M+ Mar 80 REM STATEMENTS ON MULTI-STATEMENT LINES - PATCH M S6.1.15 M+ Mar 80 DEASSIGNING A TERMINAL - PATCH N INTEGERS IN DOUBLE PRECISION MU BASIC-11 S6.1.16 N+ Mar 80 USE OF SYS(1,n) FUNCTION WHEN ',n' IS OMITTED - PATCH O USE OF SYS(1,n) FUNCTION WHEN ',n' IS OMITTED - PATCH O S15ABLING CR/LF USING TYSET - PATCH P S6.1.18 M+ Mar 80 HANDLER FETCH ERROR MAY LEAD TO MONITOR FAULT - PATCH Q S6.1.19 M+ Mar 80 HANDLER FETCH ERROR MAY LEAD TO MONITOR FAULT - PATCH Q S6.1.20 M NOV 80 HINT FUNCTION - PATCH S FOR MULTI-USER BASIC-11 S6.1.21 M NOV 80 FRINT USING - REVISED PATCH T FOR MULTI USER BASIC-11 S6.1.22 M APR 81 CMITTING THIS FUNCTIONS FROM MU BASIC-11 S7S(1) FUNCTION - PATCH V FOR MULTI USER BASIC-11 S1SYS(1) FUNCTION - PATCH V FOR MULTI USER BASIC-11 S1SYS(1) FUNCTION - PATCH V FOR MULTI USER BASIC-11 S1SYS(1) FUNCTION - PATCH V FOR MULTI USER BASIC-11 S1SYS(1) FUNCTION - PATCH V FOR MULTI USER BASIC-11 S1SYS(1) FUNCTION - PATCH V FOR MULTI USER BASIC-11 S1TRING CONCATENATION - PATCH V FOR MULTI USER BASIC-11 S1TRING CONCATENATION - PATCH V FOR MULTI USER BASIC-11 S6.1.22 M May 81 TTSET GIVES THAP TO 10 - MU BASIC PATCH Z UTILITIES MU BASIC-11/RT-11 V2 CONVERSION PROGRAM PATCH 1 BMOM BASIC-11/RT-11 V2 CONVERSION PROGRAM MU BASIC-11/RT-11 V2 CONVERSION PROGRAM MEMONY REQUIREMENTS OF OPTIONAL FUNCTIONS, ETC. OPERATION OF CTRLC, RCTRLC AND SYS(6) FUNCTIONS AND THE CTRL/C COMMAND BMOMOY REQUIREMENTS OF OPTIONAL FUNCTIONS, ETC. OPERATION OF OLD, RUN, CHAIR AND OVERLAY WHEN THE SPECIFIED FILE IS NOT FOUND SCREETING AND ACCESSING VIRTUAL ARRAY FILES S1STANG AND ACCESSING VIRTUAL ARRAY FILES STRING AND ACCESSING VIRTUAL ARRAY FILES STRING COMPILE COMMAND S1STANG COMPILE COMMAND S1STANG COMPILE COMMAND S1STA				
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	FULL DUPLEX, EXTENDED MEMORY DUP DRIVER WON'T BUILD		50.3.1 M	Aug 80
DDCHI DRANCH COL C. NAME AND & EFFERING LEGISTRA	DDCMP DDCMP BRANCH OUT OF RANGE AND Q ELEMENT RETURN PROBLEMS		50.5.1 M	Aug 80

Component	Autopatch Kit	Sequence	Mon/Yr
NSP NSP CORRUPTS PHYSICAL LINE ERROR CODE		50.6.1 M	Aug 80
NFT INCORRECTLY ALLOCATES RT-11 QUEUE ELEMENTS		50.9.1 M	Jun 80
FAL FAL INCORRECTLY ALLOCATES RT-11 QUEUE ELEMENTS FAL MAY HANG ON ASCII TRANSFERS OF UNFILLED BLOCKS FAL WILL NOT ALLOW ACCESS COMPLETE AFTER CONTROL CONNECT		50.10.1 M 50.10.2 M 50.10.3 M	Jun 80 Aug 80 Aug 80
NFARS DAP ROUTINES DO NOT REPORT PHYSICAL LINE ERRORS DAP ATTEMPTS TO MULTIPLY RETURN BUFFERS ON ERROR DAP SEND ONE CHARACTER ON ZERO LENGTH TRANSMITS DAPAST CLEARS THE USER CHANNEL NUMBER TOO SOON		50.11.1 M 50.11.2 M 50.11.3 M 50.11.4 M	Nov 80 Aug 80 Nov 80 Aug 80
FORTRAN USER INTERFACES NOTES ON THE USE OF THE DECNET-RT FORTRAN INTERFACES		50.16.1 M	Jun 80
MACRO USER INTERFACES NOTES ON DECNET-RT MACRO PROGRAMMING		50.16.2 N	Jun 80
CTS-300 V6.0			
DECFORM VO6-00 PROBLEM WITH DECFORM AND THE VT100		51.4.1 M	Nov 80
DKED TWO PROBLEMS WITH DKED DKED SELECT/CUT AND KEYPAD ERRORS		51.7 M 51.7.2 M	Aug 80 Sep 80
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 PROBLEMS WITH XCALL RENAM AND ERROR 6		51.16.1 M 51.16.2 M	Jan 81 Feb 81
TDIBOL PROBLEM WITH XCALL PAK PROBLEM UNPACKING DATA		51.17 M 51.17.2 M	Aug 80 Sep 80
TSD CORRECTIONS TO DIBOL RUN TIME SYSTEMS PROBLEMS WITH XCALL RENAM AND ERROR 6		51.18.1 M 51.18.02 M	Jan 81 Feb 81
XMTSD CONFLICT BETWEEN XMTSD AND RT-11 OVER CHANNEL 16 CORRECTIONS TO DIBOL RUN TIME SYSTEMS PROBLEMS WITH XCALL RENAM AND ERROR 6 PATCH FOR XMTSD WITH CIS		51.20 M 51.20.02 M 51.20.03 M 51.20.04 M	Aug 80 Jan 81 Feb 81 Apr 81
DOCUMENTATION CTS-300 VERSION 6 IS RELEASED TWO RT-11 PATCHES MODIFIED FOR CTS-300 USE RT-11 PATCH TO LS.MAC MODIFIED FOR CTS-300 USE ADDITIONS TO CTS-300 DOCUMENTATION ON PRINT UTILITY LIST OF SEQUENCE NUMBERS FOR CTS-300 V6		51.21 N 51.21.02 N 51.21.03 N 51.21.04 N 51.21.05 N	Aug 80 Oct 80 Feb 81 Mar 81 Mar 81
LS.MAC SPECIAL CTS-300 PATCH FOR LS.MAC CORRECTION TO CTS-300 PATCH 11 (SEQ 51.23.1 M TO LS.MAC)		51.23.01 M 51.23.02 M	Feb 81 May 81

Component	Autopatch Kit	Sequence	Mon/Yr
SYSTBL.CND RT-11 PATCH TO SYSTBL.CND MODIFIED FOR CTS-300 USE		51.25.01 M	Mar 81
RT-11 PATCH SEQ 10.3.2 M TO SYSTBL.CND MODIFIED FOR CTS-300 USE		51.25.02 M	Apr 81
CTS-300 RDCP (2780/3780)	v 2.0		
ABNORMAL TERMINATION AND LISTING PROBLEMS SUBSCRIPT ERROR IN RDCP EDITOR MEMORY CORRUPTION PROBLEM		56.1.1 M 56.1.2 M 56.1.3 M	Dec 80 Dec 80 Dec 80

Software Product Description

PRODUCT NAME: CTS-300, Version 6.0
Commercial Transaction System-300

SPD 12.9.12

DESCRIPTION:

CTS-300 is a disk based, single-user/multiuser system designed to support commercial applications on small PDP-11 based DEC Datasystems or equivalent configurations. CTS-300 applications are written in DIBOL, DIGITAL's own Business Oriented High-Level Language. DIBOL is similar to COBOL in that it has a Data Division and a Procedure Division, although DIBOL is a more concise language. DIBOL provides the application programmer with the ability to do data manipulation, arithmetic expression evaluation, table subscripting, record redefinition, external calls to other programs, spooling, sequential and random access, and indexed access to files. Exception conditions cause control to transfer to a user-specified statement, where the cause of the condition can be determined.

The following table illustrates the user/job capacity versus minimum configurations under some of the Datasystems:

	D150	D320	D330	D340	D350
	(PDT150)	(11/03)	(11/23)	(11/24)	(1134A)
No. of users	1	1-4	1-8	1-12	1-12
No. of jobs	1-4	1-4	1-16	1-16	1-16
Memory	32-60K	32-56K	32-248K	32-248K	32-248K
	bytes	bytes	bytes	bytes	bytes
Disk	512K	1-32M	10-42M	10-266	10-266M
capacity	bytes	bytes	bytes	bytes	bytes

Although 12 users is the stated limit, most application environments should use caution beyond the eighth user because terminal response time is likely to degrade as more users are added to the system. Particular care needs to be exercised with program size, overlay technique, file size and layout, etc.

CTS-300 is available in fully supported mode *only* on other equivalently configured systems that meet minimum requirements.

CTS-300 is a packaged software system consisting of the RT-11 Operating System, a choice of three runtime systems, and a number of utilities. Since RT-11 is included in this package, a CTS-300 licensee can order any RT-11 dependent product without reordering a specific license for RT-11. Although CTS-300 is a layered product, it should be noted that DIBOL will not run concurrently with other languages.

Run-Time Systems (RTS)

SUD — Single-user DIBOL RTS allows one DIBOL user or job to be run on a system. It is designed for an entry level system running in 32K bytes of memory. SUD runs on all RT-11 monitor (SJ, FB, XM). SUD also runs as the background job in the FB monitor with a line printer spooler running in the foreground. Control returns to the monitor upon completion of the SUD program.

TSD — Time Shared DIBOL RTS allows one to two DIBOL users or two to four DIBOL jobs to run simultaneously. It is designed for a medium-sized system running in 56K bytes of memory. File sharing facilities at the record level permit multiple users to share and update the same data files. TSD is an executive that normally is run on an SJ monitor SYSGENed for multiterminal support. TSD controls loading of DIBOL programs, program scheduling, detached programs, filesharing, record I/O, intertask communication, as well as other less visible functions. A DIBOL line printer spooler also runs in the TSD environment. Program completion, or the detaching of a program, returns control to the TSD executive.

XMTSD — Extended Memory TSD RTS allows one to 12 DIBOL users or one to 16 DIBOL jobs to run simultaneously (up to 12 could be attached to terminals with the remainder running in a detached environment). Designed for larger systems running in 128K to 248K bytes of memory using the XM monitor, XMTSD has the same features and capability found in TSD. In addition, XMTSD offers multiuser program development. When XMTSD is loaded in the foreground of the XM monitor, the background is reserved for queuing and executing indirect command files. These files can contain compile and link instructions. Programs can be created and modified by running a CRT oriented editor called DKED, which executes as a DIBOL job. More than one copy of DKED can run concurrently.

NOTE: Relinking is required when changing from SUD to TSD or XMTSD or vice versa.

March 1981

AE-5790M-TC

CTS-300 Utility Programs

CTSGEN — The CTS-300 Generator Program is an interactive DIBOL-11 utility program that tailors the system to a user's needs. It can create a SUD, TSD or XMTSD RTS to match the specific hardware and software of the installation. Through CTSGEN a user specifies such items as the total number of terminals, jobs, messages, and files open at one time. Support for DDT and forced job start-up are also among the choices available.

DDT — The DIBOL Debugging Technique is a system utility that allows for user/programmer interaction with a DIBOL program while it is executing. Using DDT, a programmer can set predetermined stopping points to halt the program, examine and/or alter the contents of variables, and trace through lines of a DIBOL program. These features allow a programmer to locate problems, correct data values, and test any programming errors directly, before reediting and recompiling.

DECFORM — The DECFORM Data Entry utility is a program generator that processes screen format directives and produces a DIBOL program that, when compiled and executed, performs specified data entry functions. In addition to defining screen formats, autoduplication, alphabetic or decimal checking, range checking, field totaling, cross-field validation, and auto-increment characteristics, DECFORM makes possible additions, inquiries, changes, and verifications to sequentially ordered files or Indexed Sequential Access Method (ISAM) files. Deletions are possible only with ISAM files. DECFORM is primarily a tool to facilitate and reduce program development efforts. Its major use is in data file creation, modification, and inquiry.

DKED — DKED is a version of RT-11's keyboard editor (K52) that runs as a job only under XMTSD. It is a text editor, designed to run in VT52 mode on a VT52 or VT100, and is used to create and modify ASCII text files.

DICOMP — DICOMP is the DIBOL compiler. It translates DIBOL source programs into interpretive code that, when linked, can be executed by the three RTS.

DMS-300 — Data Management Services provide capabilities for handling sequential, random, or keyed records in files. Records in an ISAM file can be keyed by a symbolic value. DMS-300 also supports file sharing and multivolume files. Sequential and random file processing are standard in every RTS. ISAM is an option. DIBOL has special language statements to use these file access methods efficiently.

ISMUTL — ISAM files are created and maintained by means of the ISAM Utility Program. Its three major functions are CREATE, STATUS, and REORGANIZE.

 CREATE is used to create a new ISAM file. Options are provided to create an empty ISAM file or convert a sequential file to an ISAM file. The CREATE function can be carried out without operator intervention.

- STATUS provides a concise view of the current structure of the file: length of keys, records, and groups, levels of indexing, and information about the use of load exclusion and overflow areas in the data file.
- REORGANIZE is used to reorganize an ISAM file for more efficient operation. It is used when most of the groups in the file are filled and the overflow area or append area is filled. The effect of REORG is to redistribute the records of the file so it appears to be a newly created file.

LPTSPL — The Line Printer Spooler is a utility program that prints data files and program source files. In response to an LPQUE statement, the spooler program receives information on the file to be printed. The spooler queues the file and begins to print it when the line printer is available. In the SUD RTS, the spooler outputs to one line printer. In the TSD and XMTSD RTS, the spooler is a DIBOL program consisting of a queue manager and four satellite programs that output to as many as four line printers.

SORT/MERGE — The SORT/MERGE utility permits the user to define the parameters for the sorting and/or merging of data files. A DIBOL program is then generated by the system to perform the required sort and/or merge. The user can specify up to eight key fields to control the ordering of the output records, in either ascending or descending sequence. A wide range of operating parameters, such as the number of work files to be used, is provided to enable the user to achieve maximum sort efficiency.

STATUS — The job and system state program, STATUS, retrieves and displays information about the TSD or XMTSD RTS. STATUS passes the following information to a line printer or a terminal:

- Available free core
- · List of active jobs
- Detailed information of a specified active job
- · Detailed information of pending messages
- · List of pending line printer jobs
- Characteristics of the current RTS

MINIMUM HARDWARE REQUIRED:

CTS-300 is intended to run primarily on DEC Datasystem 150s and 300s; it will operate however on other similarly configured hardware with the following minimum.

A VT05, VT50H, VT52, VT100, or LA36 console terminal. A VT50H, VT52, or VT100 terminal (in VT52 mode) is required for use with DECFORM, ISMUTL, STATUS utilities.

The Extended Instruction Set (EIS or equivalent) for XMTSD

Memory management hardware is needed in the D330 and D350 series to use extended memory (memory above 56K bytes); it is needed, as well, in any 11/23, 11/24, 1134A, 11/44, or 11/60 processor intending to use extended memory.

Memory required for SUD - 32K bytes: TSD - 56K bytes: XMTSD - 128K bytes

OPTIONAL HARDWARE:

The following options are available for D150 systems:

- Additional memory up to a system total of 60K bytes
- LA180 or LA120 Serial Printer
- VT100 Advanced Video Option (VT1XX-AB)

The following options are available for D320 systems:

- Additional memory up to a system total of 56K bytes
- VT100 Advanced Video Option (VT1XX-AB)
- Up to a system total of four VT05, VT50H, VT52, VT100, LA36 or LA120 terminals
- Up to four LAV11 or LPV11 line printers
- Up to four DLV11 asynchronous line interfaces (one per terminal)
- One DZV11 asynchronous line multiplexer with up to four lines
- RKV disk cartridge system with controller
- RK05 disk cartridge drives up to eight
- · RLV disk cartridge system with controller
- RL disk cartridge drives up to four, two of which can be RL02 add-ons
- Up to two RXV floppy disk systems, with four drives total

The following options are available for special D323S and D325S systems:

- Additional memory up to a system total of 56K bytes
- VT100 advanced video option (VT1XX-AB)
- Up to a system total of four VT05, VT50H, VT52, VT100, LA36, or LA120 terminals
- Up to four LA11 or LP11 line printers
- Up to four DL11 asynchronous line interfaces (one per terminal)
- One DZ11 asynchronous line multiplexer with up to four lines
- RL disk cartridge system with controller
- · RL disk cartridge drives up to four
- Up to two RX floppy disk systems, with four drive total

The following options are available for D330 systems:

- Additional memory up to a system total of 248K bytes
- VT100 advanced video options (VT1XX-AB)
- Up to a system total of eight VT05, VT50H, VT52, VT100, LA36 or LA120 terminals
- Up to four LAV11 or LPV11 line printers
- Up to eight DLV11 serial asynchronous line interfaces (one per terminal) for eight lines total

- Up to two DZV11 asychronous line multiplexers for eight lines total
- · RLV disk cartridge system with controller
- RL disk cartridge drives up to four
- Up to two RXV floppy disk systems, with four drives total

NOTE:

Due to limited expansion space inside a base 11/23 CPU system box, additional hardware options can require an expander box and cabinet

The following options are available for D340 and D350 systems:

- Additional memory to a system total of 248K bytes
- VT100 advanced video option (VT1XX-AB)
- Up to a system total of twelve VT05, VT50H, VT100, LA34, LA36, LA38, or LA120 terminals
- Up to four LS11, LA11, or LP11 line printers
- Up to sixteen DL11 asynchronous line interfaces (one per terminal) for sixteen lines total
- Up to two DZ11 multiplexers with up to eight lines each
- RK11 disk cartridge system with controller
- RK05 disk cartridge drives up to eight
- RL disk cartridge system with controller
- RL disk cartridge drives up to four
- RPR11 disk pack system with up to eight drives
- Up to two RX floppy disk systems, with four drives total
- RK611 disk pack system
- RK06 disk pack drives up to eight, or

RK711 disk pack system

RK07 disk pack drive up to eight

NOTE: A mix of up to eight RK06s and RK07s total is possible

- CR11 card reader
- TME11 magnetic tape controller with up to eight TU10 transports or TJE16 controller with up to two TS03 transports.

NOTE:

CTS-300 will run on the 11/24 and 11/44 processors, but can not access memory beyond 256K bytes.

PREREQUISITE SOFTWARE:

None

OPTIONAL SOFTWARE:

DIBS-11 DAP/CTS-300 CTS-300 RDCP 2780/3780 CTS-300 DICAM/3271

TRAINING CREDITS:

TWO (2) — Training credits apply only to options that include support services. Consult the latest Educational Services Catalog at your local DIGITAL office for available courses, course requirements, and guidelines.

SUPPORT CATEGORY:

7 DIGITAL SUPPORTED

CTS-300 is a DIGITAL Supported Software Product.

-4-

SOFTWARE INSTALLATION:

DIGITAL INSTALLED

DIGITAL installation is required for Software Product Support. There is no charge for installation if performed at the time of system installation. DIGITAL installed software products, except for operating systems, are subject to an add-on installation fee when purchased subsequent to system installation.

SOFTWARE PRODUCT SUPPORT

CTS-300 includes standard warranty services as defined in the Software Support Categories Addendum of this SPD.

CTS-300 installation requires a system generation. To help customers, DIGITAL will perform the initial system generation if the system disk is an RL01, RL02, RK05, RK06 or RK07. When requested by the customer, DIGITAL will install floppy disk systems, on a time and materials basis.

Software reliability is maintained at a high standard through the use of a number of DIGITAL-provided tools, which allow the user to correct faulty software components. The RT-11 Software Dispatch is the official publication that contains both articles describing known problems and instructions for patching the affected software components. The Automated Patching (Auto Patch) facility provides a means of applying patches by using the computer to read command files. This avoids errors that can occur when patches are keyed manually. Auto Patch kits are available on a periodic basis, as an optional, separate service.

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Options with no support services are only available after the purchase of one supported license.

A single-use, license-only option is a license to copy the software previously obtained under license.

The following key (E, H, Q, T, V, X, Y, Z) represents the distribution media for the product and must be specified at the end of the order number, e.g., QJ354-AV = distribution on RK07 Disk Cartridge.

E = RK05 Disk Cartridge H = RL02 Disk Cartridge Q = RL01 Disk Cartridge

T = RK06 Disk Cartridge V = RK07 Disk Cartridge

X = RX02 Double Density Diskette

Y = RX01 Floppy Diskette Z = No hardware dependency

The French translation of the CTS-300 User Documentation is also available.

This software is available with a valid DEC Datasystem 150, 315, 320, 330, 340, or 350 that includes support services. License-only CTS-300 is available only with a valid DEC Datasystem 150, 320, 330, 340, or 350 that does not include software support services.

Floppy Disk Based (RX01) DS352 RX01 Floppy Disk Based DS356 RPR02 Disk Pack Based RX02 Floppy Disk Based D315 D322 RX01 Floppy Disk Based D323 RX02 Floppy Disk Based RK05 Cartridge Disk Based D324 RL01 Cartridge Disk Based D325 D333 RX02 Floppy Disk Based RL01 Cartridge Disk Based D335 RL02 Cartridge Disk Based D336 D346 RL02 Cartridge Disk Based D348 RK07 Cartridge Disk Based RK05 Cartridge Disk Based D354 RL01 Cartridge Disk Based D355 D356 RL02 Cartridge Disk Based RK06 Cartridge Disk Based D357 D358 RK07 Cartridge Disk Based

CTS-300 is also offered with full DIGITAL support services only on hardware configurations that meet minimum system requirements. A customer would order the following line item:

QJ354 -A— Single-use license, binaries, documentation, support services (media: E, H, Q, T, V, X, Y)

A partial listing of other DIGITAL packaged systems that meet CTS-300 requirements is listed below. For a more complete configuration guide, refer to the RT-11, Version 4.0 SPD (12.1).

D522A-D
D522E-D
D528A-D
D528E-D
D532, D535, D538
D542, D548
DM30-LLB, DM30-HHB
RE37-HHB
SE30-HHB, SE30-LLB, SE30-MMA
SE40-HHA, SE40-MMA

SE60-HHA SE-FXHH SE-FXMM SM20-LLA SM30-HHB, SM30-LLB, SM30-MMA SM40-HHA, SM40-MMA SM60-HHA, SM60-HHB, SM60-LLA, SM60-MMA SM-FXMM SP30-HVA, SP30-LLA SP60-HVA SR20-LLA, SR20-SSA SR30-LLB, SR30-SSB SR60-LLA SR-FXMM SR-FXSS SR-VXLLB, SR-VXSSA, SR-VXSSB SR-WXLLA, SR-WXSSA

Update Options

Users of previous CTS-300 versions whose specified Support Category warranty has expired may order under license the following software update at the prevailing rate for such update. The update is distributed

in binary form on the appropriate medium and includes no installation or other services are included unless specifically stated.

QJ354 -H— Binaries and documentation (media: E, H, Q, T, V, X, Y)

QJ354 -H— Right to copy for single use, no binaries, no documentation (media: Z)

Miscellaneous Options

QJ354 -G— English documentation-only kit (media: Z)

QJ365 -G— French documentation-only kit (media: Z)

ADDITIONAL SERVICES:

Post-warranty Software Product Services are available for licensed customers. Customers should contact their local DIGITAL office for additional information.

QJ367 -3— CTS-300 Auto Patch option (media: E, H, Q, T, V, X, Y)

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DECUS membership is free--upon application--to owners of DIGITAL computers and to their computer-interested employees. Membership carries important benefits and opportunities; among them are access to the program library; membership in local, regional, and national organizations; invitations to symposia dedicated to optimal use of DIGITAL equipment; opportunity to present papers and workshops on your own new ideas; and, finally, access to special interest groups dedicated to particular uses, languages, operating systems, and hardware configurations.

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Local, regional, and national DECUS organizations give members the opportunity to meet other DIGITAL customers and employees in an informal setting. From the monthly local meeting to the semiannual national symposium, the members can discuss their ideas, can learn what others are doing, and can give DIGITAL feedback necessary in improvement and future development of important products. Often, the national meetings in the various countries also provide the stage for major new product announcements by the company, and a showplace for interesting developments in both hardware and software technology. At any meeting a member might describe ideas and programs he has implemented, or fine tuning that has been achieved for a particular application. Members give papers, participate in panel discussions, lead workshops, or conduct demonstrations for the benefit of other members.

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Many members derive a particular benefit from joining DECUS Special Interest Groups. Special Interest Groups often meet as subsets of regional and national meetings, or they may meet on their own, to discuss their special interest. Here, all RSTS/E users, or everyone interested in COBOL, for example, can have a chance to get together and discuss topics of mutual importance. At present there are more than 20 Special Interest Groups (SIGs) in the U.S. alone. Many of the SIGs print newsletters and disseminate valuable technical information to members. The SIGs really are the front-line of mutual help and problem solving.

DIGITAL provides DECUS with administrative personnel and office space around the world, but the organization is run by its members, who act as speakers for conferences, planners for meetings, editorial and production talent for newsletters and minutes, and the inventors of the ideas and new programs necessary to keep the library up to date. Belonging to DECUS is a valuable adjunct to owning DIGITAL equipment on both the program exchange and the information exchange fronts.

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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).

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