## **RT-11**

June 1978

AD-C740B-B2

## THE SOFTWARE DISPATCH



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#### **RT-11 SOFTWARE DISPATCH**

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The RT-11 Software Dispatch complements the RT-11 V3B Software Dispatch Review. It publishes new and revised Software Product Descriptions, programming notes, software problems and solutions and documentation corrections. Much of the material is developed from answers to customer Software Performance Reports (SPRs) significant to the general audience.

The material is formatted to establish a reference notebook for the customer's software interests. The following products are supported in the RT-11 Software Dispatch:

APL-11 V1	FORTRAN/RT-11 Extensions V1B	MU BASIC/RT-11 V1
BASIC/RT-11 V1B, V2	FORTRAN/RT-11 LSI Extensions V1	PDL/RT-11 V1
BASIC/RT-11 Extensions	FORTRAN IV/RT-11 V1C, V2	PEAK-11 V2
CTS-300 V3, V4	GAMMA-11 F/B V2	PLOT-11/RT-11 V1
CTS-300 DICAM V1	INDUSTRIAL BASIC/RT-11 V1	REMOTE/RT-11 V1
CTS-300/DIS V1	LA-11 V3	RT-11 V3, V3B
DECnet/RT V1	LV11/RT-11 Plotting Package V2	RT-11/2780 V2
FOCAL/RT-11 V1B		SSP-11/RT-11 V1

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DISTRIBUTION: The Dispatch is directed to one software contact (the system manager) at each licensed Category A and B software installation. No mailing will be made to addresses without a software contact.

Address changes and requests for information about maintenance service after the first year should be sent to the nearest DIGITAL Field Office. For address changes, include the new address and mailing label from the most recently received publication.

#### Eleanor F.Hunter, Editor Roxanne Alexander, Associate Editor

## TRADEMARKS of DIGITAL EQUIPMENT CORPORATION Maynard, Massachusetts

DIGITAL	DECsystem-10	MASSBUS
DEC	DECtape	OMNIBUS
PDP	DIBOL	OS/8
DECUS	<b>EDUSYSTEM</b>	PHA
UNIBUS	FLIP CHIP	RSTS
COMPUTER LABS	FOCAL	RSX
COMTEX	INDAC	TYPESET-8
DDT	LAB-8	TYPESET-11
	DECCOMM	

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## USER LETTER Jan Fair, SPR Administration

Customers (and others) have brought to our attention the need for additional information regarding SPR service, particularly as it involves SPR Administration. The following represents our attempt to fulfill this need. Your comments and suggestions are most welcome.

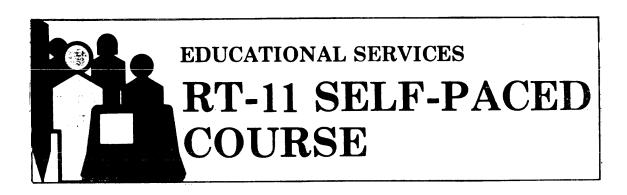
#### HOW TO MAKE THE BEST USE OF SPR FORM

#### What WE Can Do for YOU

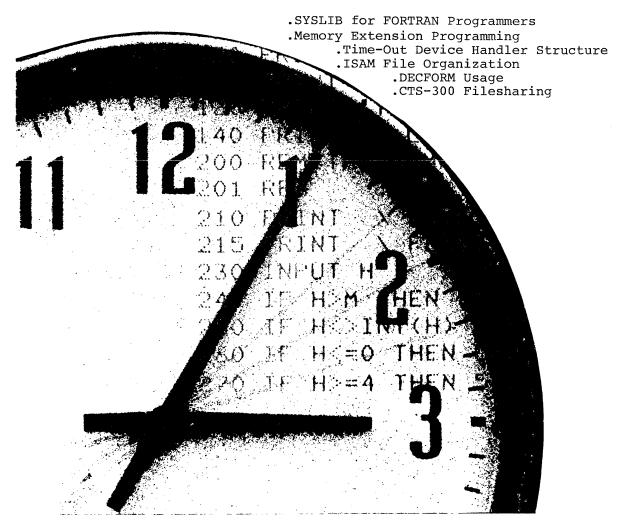
- 1. Blank SPR forms are available upon request in the desired quantities through SPR Administration (P.O.Box F) and your local office/SPR Center.
- 2. Copies of the SPR acknowledgment and answer are sent to the appropriate DIGITAL Office/SPR Center for their information.
- 3. SPRs marked SOFTWARE ERROR or INQUIRY will have a response for supported Category A and B products. These SPRs should refer to suspected deficiencies in the software.
- 4. SPRs marked FYI or SUGGESTION are forwarded to the pertinent software group for information purposes, and are responded to at their discretion.
- 5. SPRs marked *DOCUMENTATION ERROR* should report those problems dealing with software manuals or newsletters, and will be forwarded to the pertinent software group.

#### What YOU Can Do For US

- 1. Customer Name and Address and Problem Statement should always be typed or printed clearly.
- 2. SPRs should not be used for problems concerning software policy, software distribution, or hardware. Your local office should be contacted in these cases.
- 3. It would be most helpful to all concerned, if problems with patches are reported as soon as possible.
- 4. For security SPRs, it is imperative that the DO NOT PUBLISH box be marked.
- 5. It would be helpful if tapes submitted with SPRs are labeled (track and density), and have a directory attached.
- 6. Should you ever receive an unacceptable SPR response, please contact us or the appropriate SPR Center so that the response may be readdressed.



#### A COMPLETE TRAINING PROGRAM INCLUDING



#### YOU SET THE PACE WITH DIGITAL'S MODULARIZED SELF-PACED COURSES

#### ----High Quality Education at a Reasonable Cost

DIGITAL EQUIPMENT CORPORATION'S Self-Paced Instruction (SPI) Courses offer the prospective student a method for acquiring valuable skills at his own rate of speed on an independent level. Designed in a modularized fashion containing comprehensive information, these courses are intended to be used locally as an effective training alternative to traditional reference study.

Using the latest proven educational technology, our Self-Paced Instruction programs are composed of separate courses, each containing modular instructional units. The student can expect to find specific learning objectives, instructional text, exercises, and self-evaluating tests already organized into a logical learning sequence for easier comprehension and retention. As a training alternative to traditional reference study, this modularized self-paced format is DIGITAL's answer to high quality education at a reasonable cost.

#### WHO BENEFITS FROM AN SPI COURSE?

As a student you benefit from Self-Paced Courses because you learn at your own speed on a totally independent level. Just what you learn depends on your personal interests and needs. A benefit of DIGITAL's SPI Courses is the ability to select only those modules which meet your specific job needs. In addition, learning outside the bounds of a traditional classroom enables you to study during spare moments while on the job or at home. The end result is a very viable learning process which minimizes your use of time and materials.

As a manager you benefit from such a self-paced study program because you are able to provide high quality training at any time to your employees while they stay on their job site. Travel and living expenses are eliminated and are no longer important criteria when evaluating the need for employee training...And SPI Course Packages may be used in part or in whole as an overall coordinated tool for in-company training, including upgrading of employees and retraining as it is required.

#### COURSE OBJECTIVES FOR RT-11

Upon completion of this course, the student should be able to:

- Describe the organization of the RT-11 Operating System, naming the major components of the monitor and the function of each.
- Use the supplied system-program development tools to write, debug and successfully execute programs in BASIC, FORTRAN or MACRO-11.
- 3. Use the utility commands and programs to perform necessary program maintenance and file housekeeping.
- Generate a system appropriate for given hardware configurations, tailored to the needs of specific applications; and install its language.
- Write assembly language routines that are callable from BASIC or FORTRAN.

FORTRAN and MACRO Programmers:

- 6. Write programs to perform the following functions:
  - A. Terminal Input/Output
  - B. File Operations
  - C. Reads and Writes
  - D. Foreground/Background Communication
- Describe the differences between the three modes of Input/ Output available to the RT-ll programmer.

System Programmers:

- 8. Write an interrupt service routine to communicate with an external device in the foreground/background environment.
- 9. Write, debug and install an RT-11 device handler using a selected set of optional features.
- 10. Use the memory management directives to access extended memory.

#### COURSE OBJECTIVES FOR CTS-300

- 1. Describe the organization of the CTS-300 Operating System; naming the major components of the monitor and the function of each.
- 2. Use the supplied system-program development tools to write, debug and successfully execute programs in DIBOL.
- Use the utility commands and programs to perform necessary maintenance and file housekeeping.
- 4. Generate and maintain a CTS-300 System appropriate for a given hardware configuration, tailored to the needs of a specific application; and install its language.
- 5. Write and run single and timeshared DIBOL programs.

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#### COURSE ABSTRACTS

#### RT-11 CONCEPTS (#JB024-A)

This Self-Paced Instruction Course is intended for the RT-11 User, MACRO, FORTRAN, and BASIC Programmers. It will review the program-development procedure and familiarize the student with the operation of the RT-11 System and the use of the system software.

#### RT-11 MACRO (#JB020-A)

This Self-Paced Instruction Course is intended for MACRO programmers. It covers the program directives available to them, as well as major parts of the monitor internals. Please note that this course assumes the student knows how to make use of program development and utilities and does not cover the MACRO-11 Language.

#### RT-11 FORTRAN (#JB022-A)

This Self-Paced Instruction Course is intended for FORTRAN programmers. It covers the program directives available to FORTRAN programs. Please note that this course assumes the student knows how to make use of program development and utilities and does not cover the FORTRAN Language.

#### RT-11 BASIC (#JB018-A)

This Self-Paced Instruction Course is intended for BASIC programmers. It covers the language installation and the programming of BASIC callable assembly language routines.

#### RT-11 CONCEPTS (#JB024-A)

This Self-Paced Instruction Course is intended for the CTS-300 User, System Manager and DIBOL programmer. It will review the programdevelopment procedure and familiarize the student with the operation of the RT-11/CTS-300 System and the use of the System Software.

#### CTS-300 DIBOL (#JB016-A)

This Self-Paced Instruction Course is intended for DIBOL programmers. It covers the organization of ISAM files, SORT/MERGE programs, as well as the usage of time-shared programs and spoolers. Also, the user will be familiarized with DECFORM capabilities. Please note that this course assumes the student knows how to make use of program development and utilities and does not cover the DIBOL-11 Language.

#### COURSE CONTENTS FOR RT-11

#### CONCEPTS

- . Overview and Getting Started with RT-11
- . Program Development for MACRO, FORTRAN and BASIC Programmers
- . Commands and Options
- . File System
- . Utilities
- . System Maintenance

#### MACRO

- . Assembler and Linker Options
- . Debugging Techniques
- . Programmed Requests
- . Memory Extension Programming
- . System Library and the MACRO Programmer
- . Overlays
- . Introduction to Monitor Internals

#### FORTRAN

- . Compiler and Linker Options
- . Debugging Techniques
- . System Library and the FORTRAN Programmer
- . Overlays
- . Character String Functions
- . FORTRAN/MACRO Interface

#### BASIC

- . Commands and Options
- . BASIC/MACRO Interface
- . Installation

#### COURSE CONTENTS FOR CTS-300

#### CONCEPTS

- . Overview and Getting Started with RT-11
- . Program Development for DIBOL Programmers
- . Commands and Options
- . File System
- . Utilities
- . System Maintenance

#### DIBOL

- · Compiler and Linker Options
- . Debugging Techniques
- . Timesharing and DIBOL
- . Overlays
- . SORT and MERGE Programs
- . ISAM Programming
- . Introduction to DECFORM

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#### ENSURING SUCCESS

In order to successfully complete and gain maximum benefit from the RT-11/CTS-300 SPI Course, the prospective student will need a good knowledge of the English language and access to an RT-11/CTS-300 Computer System for the laboratory exercises contained in this course.

#### PREREQUISITES FOR THE RT-11

- 1. Prerequisites for MACRO Programmers:
  - A. Fluency in the PDP-11 assembly language and understanding of MACRO-11 programming concepts.
- 2. Prerequisites for FORTRAN or BASIC Programmers:
  - A. Fluency in FORTRAN or BASIC
  - B. Elementary knowledge of the PDP-11 architecture.
  - C. Understanding of the program development cycle.

#### PREREQUISITES FOR THE CTS-300

- 1. Prerequisites for DIBOL programmers:
  - A. Fluency in DIBOL-11
  - B. Basic understanding of the program development cycle.

#### REFERENCE MANUALS FOR THE RT-11

In addition to the material covered in the different course binders, the following reference manuals will also be needed in order to complete the course successfully. Please contact your nearest DIGITAL Sales Representative for ordering procedures.

#### General Manuals (for JB024-A)

RT-11 Documentation Directory	DEC-11-ORDDB-A-D
Introduction to RT-11	DEC-11-ORITA-A-D
RT-ll System User's Guide	DEC-11-ORGADA-A-D
RT-11 System Generation Manual	DEC-11-ORGMB-A-D
RT-11 System Message Manual	DEC-11-ORMEB-A-D
RT-11 Pocket Guide	DEC-11-ORRCB-A-D
RT-11 System Release Notes	DEC-11-ORNRB-A-D

#### BASIC Programmer (for JB018-A)

BASIC-II/RT-II	. V2 Documentation	Kit	QJ913-GZ
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#### FORTRAN Programmer (for JB022-A)

FORTRAN IV/RT-	-11 V2 Documentation K	it QJ813-GZ
FORTRAN/RT-11	Extensions Manual	AA-2124D-TC

#### MACRO Programmer (for JB020-A)

RT-11 Advanced Programmer's Guide	DEC-11-ORAPA-A-D
PDP-11 MACRO Language Reference Manual	
PDP-11/04/34/45/55 Processor Handbook	AA-5075A-TC
PDP-11 Peripherals Handbook	
RT-11-D Memory Management Option Manual	DEC-ED-KTIID-TM-002

#### REFERENCE MANUALS FOR CTS-300

General Manuals (for JB024-A)	
RT-11 Documentation Directory	DEC-11-ORDDB-A-D
Introduction to RT-11	DEC-11-ORITA-A-D
RT-11 System User's Guide	DEC-11-ORGADA-A-D
RT-11 System Generation Manual	DEC-11-ORGMB-A-D
RT-11 System Message Manual	DEC-11-ORMEB-A-D
RT-11 Pocket Guide	DEC-11-ORRCB-A-D
RT-11 System Release Notes	DEC-11-ORNRB-A-D

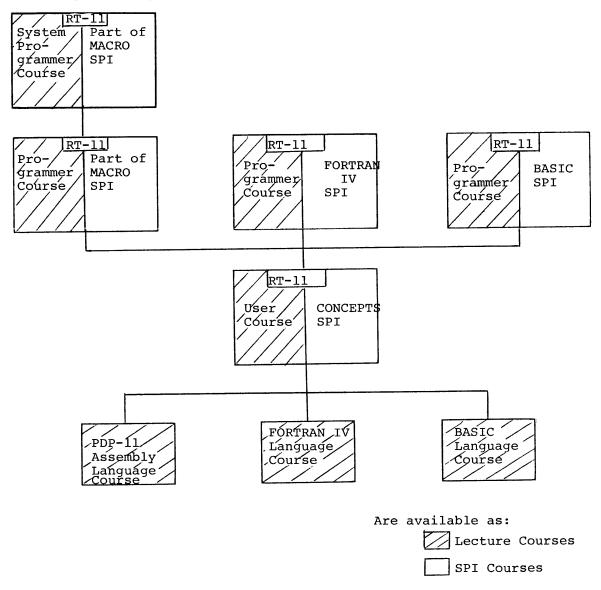
#### DIBOL Programmer (for JB016-A)

CTS-300	Release Notes	DEC-AA-5697A-TC
	System User Guide	DEC-AA-C7474-TC
CTS-300	Concepts and Facilities	DEC-AA-5495A-TC
DECFORM	User's Guide	DEC-11-VDFVA-A-D
DECFORM	User's Guide	DEC-11-UDFUA-A-DN1
DIBOL-1	l Language Reference Manual	DEC-11-LDRMA-C-D
DIBOL-13	l Language Reference Manual	DEC-11-LDRMA-C-DN1

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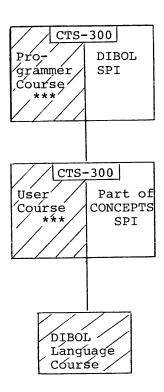
#### RT-11 CURRICULUM

If it is more convenient for a student to learn in a classroom environment which consists of both the experience of a professional instructor and interaction with other students, or if access to a computer is not available, then we encourage you to contact the nearest Educational Services' Training Center for consultation regarding DIGITAL's facility training curriculum.



#### CTS-300 CURRICULUM

If it is more convenient for a student to learn in a classroom environment which consists of both the experience of a professional instructor and interaction with other students, or if access to a computer is not available, then we encourage you to contact the nearest Educational Services' Training Center for consultation regarding DIGITAL's facility training curriculum.



Are available as:

Lecture Course

SPI Course

\*\*\* Both types of students will be trained in the Commercial Transaction Operating System (CTS-300) course.

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#### ORDERING INFORMATION

Please contact your local Educational Services Education Center for prices and ordering procedures.

#### COURSE MATERIAL FOR THE RT-11

Course material may be purchased in complete sets or individual binders as shown below:

Order Number	<u> Title</u>
JB024-A	RT-11 Operating System/CONCEPTS
JB018-A	RT-11 Operating System/BASIC
JB022-A	RT-11 Operating System/FORTRAN
JB020-A	RT-11 Operating System/MACRO
JB042-A	RT-11 SPI Package * (all four binders)

#### COURSE MATERIAL FOR THE CTS-300

Order Number	Title
JB024-A	RT-11 Operating System/CONCEPTS
JB016-A	RT-11 Operating System/DIBOL
JB040-A	CTS-300 SPI Package ** (all two binders)

<sup>\*</sup> As a special service, every complete RT-11 Course Package, consisting of the CONCEPTS, BASIC, MACRO and FORTRAN binders, can be ordered with the recommended REFERENCE MANUALS from Educational Services.

If you buy binders separately, please order the necessary reference materials at the standard DEC price via your Software Literature contact.

<sup>\*\*</sup> As a special service, every complete CTS-300 Course Package, consisting of the CONCEPTS and DIBOL binders, can be ordered with the recommended REFERENCE MANUALS from Educational Services. If you buy binders separately, please order the necessary reference materials at the standard DEC price via your Software Literature contact.

### **EDUCATIONAL SERVICES EDUCATION CENTERS**

#### **Boston area:**

Digital Equipment Corporation Educational Services Department Maynard, Massachusetts 01754 Telephone: (617)493-3819 or 5217

## For DECsystem-10 and DECSYSTEM-20 inquiries and enrollments, contact:

Digital Equipment Corporation Educational Services Department Marlboro, Massachusetts 01752 Telephone: (617)481-9511 Ext. 5071 or 5072

#### New York area:

Digital Equipment Corporation Educational Services Department One Penn Plaza New York, New York 10001 Telephone: (212)971-3545

#### Chicago area:

Digital Equipment Corporation Educational Services Department 5600 Apollo Drive Rolling Meadows, Illinois 60008 Telephone: (312)640-5520

#### San Francisco area:

Digital Equipment Corporation Educational Services Department 2525 Augustine Drive Santa Clara, California 95051 Telephone: (408)984-0200 Ext. 2142

#### Washington, D.C. area:

Digital Equipment Corporation Educational Services Department Lanham 30 Office Building 5900 Princess Garden Parkway 'Lanham, Maryland 20801 Telephone: (301)459-7900 Ext. 315 or 215

#### Canada – Ottawa area:

Digital Equipment Corporation of Canada, Ltd. Educational Services Department 100 Herzberg Road Kanata, Ontario, Canada Telephone: (613)592-5111

#### France:

Digital Equipment S.A.R.L. Educational Services Department 2 Place Gustave Eiffel F-94533 Rungis, France Telephone: (01)687-2333

#### Italy:

Digital Equipment SPA
Educational Services Department
Viale Fulvio Testi, 117
20092 Cinisello Balsamo
Milan, Italy
Telephone: 92-81-892

#### Switzerland:

Digital Equipment Corporation A.G. Educational Services Department Schaffhauserstr. 315 CH-8050 Zurich/Oerlikon Telephone: (01)46 41 91

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Digital Equipment Gmbh.
Educational Services Department
D-8 Munich 40
Wallensteinplatz 2
West Germany
Telephone: 35031

#### **United Kingdom:**

Digital Equipment Company, Ltd. Educational Services Department Fountain House, Butts Center Reading, England RG1, 7QN Telephone: 58-35-55

#### Sweden:

Digital Equipment AB
Educational Services Department
Englundsvaagen 7, 2TR
S-171-41 Solna, Sweden
Telephone: 08/7300 800

#### The Netherlands:

Digital Equipment B.V. Educational Services Department Kaap Hoorndreef 38 Utrecht, Holland Telephone: 030-63 12 222

#### Spain:

Digital Equipment Corporation Educational Services Department Agustin de Foxa, 27 Madrid 16, Spain Telephone: 733-1900

#### Australia:

Digital Equipment Australia Pty. Ltd Educational Services Department Fourth Floor 1-3 Atchison Street St. Leonards, NSW, 2065 Australia Telephone: (02)439-2377

#### Japan:

Digital Equipment Corporation Int. Educational Services Department Kowa Bldg. No. 25, Third Floor 8-7 Sanban-Cho Chiyoda-ku, Tokyo 102, Japan Telephone: (03)264-7101 YOU SET THE PACE WITH DIGITAL'S MODULARIZED SELF-PACED COURSES

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#### RT-11/CTS-300

#### SELF-PACED INSTRUCTION COURSES

#### Order Form

I would like to purchase the following RT-11/CTS-300 Self-Paced Instruction Courses:

	ORDER NO.	DESCR	IPTION	QUANTITIES
	JB024-A	RT-11	Operating System/CONCEPTS	
	JB018-A	RT-11	Operating System/BASIC	
	JB022-A	RT-11	Operating System/FORTRAN	
	JB020-A	RT-11	Operating System/MACRO	
	JB042-A	(inc	SPI Package cluding JB024-A, JB018-A, 022-A, JB020-A)	
		$\bigcirc$	Without reference material With reference material at additional charge	
	JB016-A	RT-11	Operating System/DIBOL	
	JB040-A	(ir	00 SPI Package acluding JB024-A and 8016-A)	
			Without reference material	
_		$\widetilde{\bigcirc}$	With reference material at additional charge	*
$\bigcirc$	CHECK ENCLOSED		PURCHASE ORDER ENCL	OSED
	Tayon Daires			

 $\overline{\text{Taxes}}$ . Prices are exclusive of all federal, state, municipal or other government excise, sales, use, occupational or like taxes now in force or enacted in the future.

Payment. Net thirty (30) days from date of delivery.

RT-11 Software Dispatch, June 1978

CTS-300 V4 DOCUMENTATION CTS-300 SYSTEM USER'S GUIDE, AA-C747A-TC Seq 2 N 1 of 1

DOCUMENTATION CHANGES TO CTS-300 SYSTEM USER'S GUIDE (MP)

Replace the first paragraph in Section 7.3 under the subtitle "Introduction" with the following paragraph.

\*The TSD line printer spooler, LPTSPL.TSD, is a DIBOL program that operates under the control of the TSD Run-Time System. It supports a maximum of four line printers. During RT-11 SYSGEN, you must request the number of desired line printers. Also, during TSDGEN, you must request Forced Job Start-Up.\*

Add the following three error messages to the information on page  $11-2 \cdot$ 

?REDUCE-I-IMPROPER BASE ADDRESS IN OVERLAID FILE: dev:filnam.ext
An input file linked for a base address of
other than 100000 has been specified.

?REDUCE-I-INCORRECT RELATIVE BLOCK NUMBERS IN OVERLAID FILE: dev:filnam.ext
The block numbers senerated by LINK for
this input file are incorrect. Try relinking
the file.

?REDUCE-I-REDUCE vernum

This message is displayed with the current version number (vernum) whenever the /V option is specified in the command line.

CTS-300 V4
DOCUMENTATION
DECFORM USER'S GUIDE, DEC-11-UDFUA-B-D

Seq 3 N 1 of 2

DOCUMENTATION CHANGES TO DECFORM USER'S GUIDE (MP)

Replace all of Section 2.3.6 on page 2-19 with the following information. A line of asterisks is used here, at the beginning and the end of the replacement section, to delimit it from others in this article.

#### \*\*\*\*\*\*\*\*\*\*\*\*

#### 2.3.6 Initial Values

An initial value may be assigned to a format description line which contains a data descriptor. The initial value must immediately follow the field definition and must be preceded by a comma:

line, column, 'TEXT', data field descriptor, INITIAL VALUE

If the field definition is alphanumeric, the initial value must be specified within single quotes. As in text descriptors, two single quote marks in a row will be interpreted as a single quote mark. Tabs are not allowed in alphanumeric initial values. If the field definition is numeric or free format, the initial value is not specified in quotes. To properly initialize a free format field you must include the decimal point in the initial value. The initial value will be displayed in ADD mode only. Furthermore, in order for the initial value to be accepted by FOCOMP the field must be specified with an option which causes the value in the data field to be saved and displayed from record to record. Otherwise, the initial value is meaningless and will be discarded. The options to use with initial values are: Auto Increment, Save Initial, Duplicate, Constant, and No Clear - I, S, D, C, N.

#### For example:

CODM

FURM	
1,1,A10,'ABCDEFGHIJ',D	<pre>fnote D is an option which fdisplays a value from record fto record.</pre>
2,1,04.2,2.4	<pre>fround signs are displayed in fthe blank form and the fvalue 2.4 is ignored because fnone of the above options were fspecified.</pre>
3,1,D4,10,S	\$S is an option which displays \$a value from record to record.
4,1,D4,2,12,5,D	<pre>fthe decimal point must be fincluded in the initial value ffor proper initialization fof free format fields.</pre>
END	

CTS-300 V4 DOCUMENTATION DECFORM USER'S GUIDE, DEC-11-UDFUA-B-D Seq 3 N 2 of 2

If in ADD mode, the control file above will be initially displayed on the screen as:

ABCDEFGHIJ ##.## 10 12.50

#### \*\*\*\*\*\*\*\*\*\*\*\*\*

Replace the last paragraph before the example in Section 2.6.27 on page 2-59 with the following paragraph delimited at the beginning and the end with a line of asterisks.

#### \*\*\*\*\*\*\*\*\*\*\*\*

Literals may be used in DECFORM expressions. An alpha literal must be contained in single quotes as with initial values. The DECFORM compiler, FOCOMP, unlike the DIBOL compiler, DICOMP, recognizes free format decimal literals in IF/THEN statements. If you want to compare decimal value X with the free format decimal literal 12.99 you can, for example, express it as

IF (X.EQ.12.99) THEN ERROR

FOCOMP will recognize 12.99 as a free format literal.

#### \*\*\*\*\*\*\*\*\*\*\*\*

Add the following parastaph to the information siven in Table 5-1 on page 5-15 on the ADV FLD key.

If the ADV FLD key is used to skip over a field without entering any data in the field, then no validity checks are made on that field as you proceed down the form. This is because it is assumed that you want to ignore that field. However, if you back up (BACK FLD) or re-enter the form through a negative reply to IS RECORD OK?, a re-check is automatically done on all math fields and those fields requiring field validation, including those fields that were previously skipped, just prior to the next issuance of the IS RECORD OK? question.

#### RT-11 CUMULATIVE INDEX JUNE 1978

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

#### IMPORTANT!

Retracted articles are indicated: RETRACTION.

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

- M = Mandatory patch. These are critical patches which each customer is required to install.
- O = Optional patch. These articles are applicable only if the reported problems have occurred at the customer site or if they are unique to his operation.
- R Restriction. These problems are not patchable in released software. Restrictions are reviewed and corrected when possible as part of the normal release cycle.
- N = NOTE. This information may be helpful to the user.

Component	Sequence	Mon/Yr
APL-11 V1		
APL.SAV PROGRAM PATCHES ERRONEOUS "DEFINITION ERROR" DURING FUNCTION EDITING LOSS OF LOWER-CASE ON RE-ENTRY TO APL-11 APL WORKSPACE "SYSTEM ERROR"S GENERATED BY NULL LINE ELEMENTS INTERNAL MEMORY ALLOCATION PROBLEMS ERROR FOR SCALAR RESULT OF DECODE OR INNER PRODUCT OPERATION SYSTEM ERROR ON PARAMETER RETURN	01 M 02 M 03 R 04 05 M 06 M 07 M	Nov 77 Nov 77 Nov 77 Dec 77 Dec 77 Feb 78 May 78
BASIC/RT-11 VØ1B-Ø1		
HALT OR OTHER SYSTEM FAILURE AFTER USE OF BASIC EXTENSIONS BUFFER STORAGE OVERFLOW ERROR BASIC/RT-11 USED WITH EAE HARDWARE INCORRECTLY HANDLES THE VALUE -32753 CALL TO DFIX CAUSES DISPLAY TO GO BLANK USING R5 IN ASSEMBLE LANGUAGE SUBROUTINES BASIC VIRTUAL FILES ARE NOT FORTRAN COMPATIBLE TAB FUNCTION CANNOT BE MOVED  DOCUMENTATION BASIC/RT-11 LANGUAGE REFERENCE MANUAL APPENDIX H	01 M 02 03 04 M 95 06 M 07 M	Jan 76 Feb 75 May 76 Aug 76 Dec 76 Aug 77 Feb 77
BASIC/RT-11 V2		
RESEQUENCE PRODUCES AN INCORRECT PROGRAM UNDER CERTAIN CONDITIONS PRINT USING MAX SIZE OF LINE ENTERED TO BASIC-11 REM STATEMENT CONTAINING LEFT PARENTHESIS CAUSES SUBSEQUENT SPACES AND PERIODS TO BE REMOVED	01 M 02 M 03 M 04 R	Jun 78 Jun 73 Jun 78 Jun 78 <b>278</b> 0

Component	Sequence	Mon/Yr
BASIC/RT-11 EXTENSIONS V1		
"IPK" SUBROUTINE SAMPLING A/D CHANNEL NO. 15 SAMPLING ARI1 "CLRD" AND "PUTD" ROUTINES "SETR" AND "WAIT" COMBINATION MAY FAIL	01 M 02 R 03 M 04 M	Aug 77 Aug 77 Sep 77 Nov 77 Apr 78
CTS-300 V3		
CTS-300 V03 RELEASE NOTES USE OF RSTAT WITH ISAM FILES PATCH NUMBERS AND TITLES	Ø1 Ø2 R Ø3	Apr 77 Aug 77 Nov 77
DECFORM DECFORM ERRORS REPLACEMENT PAGES SEARCHMODE AND RENAM PROBLEM - NEW VERSION NUMBER EXTRA CHARACTERS AT STATEMENT END FOCOMP INCORRECTLY ALLOCATES AN EXTRA CHARACTER REPLACEMENT PAGES DECFORM RESTRICTIONS CONDITIONAL GOTO AND CONDITIONAL SKIP DECFORM PROBLEMS AND RESTRICTIONS HANG ON EXIT TWO PROBLEMS IN FOCOMP EOF AFTER CHANGED RECORD LOST RECORD ON DUPLICATE KEY MESSAGE FOR SPEED READERS EXCITING DECFORM VIA FIVE-PART QUESTION	01 02 03 04 05 06 07 08 09 R 10 11 M 12 M 13 M 14 M	Apr 77 Apr 77 Jun 77 Jun 77 Nov 77 Aug 77 Sep 77 Oct 77 Nov 77 Jan 78 Feb 78 Mar 78 Apr 78 Apr 73 May 78
DOCUMENTATION MULTIVOLUME FILES ON MAGTAPE PAGE CORRECTION DOCUMENT ERROR	01 N 02 93	Feb 78 Apr 78 Apr 78
DICOMP IMPROPER GLOBAL INFORMATION COMMENT CAUSES ERROR	Ø1 Ø2	Jul 77 Aug 77
FILEX RESTRICTION ON FILEX FILEX INFORMATION AND RESTRICTION	Ø1 Ø2 R	Sep 77 Mar 78
ISMUTL INDEXING PROBLEM WRONG RECORD COUNT CTS-300 SYSTEM REFERENCE MANUAL INCORRECT APPEND CALCULATION ERR 16 IN REORG THREE PROBLEMS IN ISMUTL REPLACEMENT PAGES WRONG FILE SPACE ALLOCATION ERRONEOUS ERROR MESSAGE ERROR 28 LEGAL CHARACTERS IN ISAM RECORDS DUPLICATE KEYS IN THE INPUT FILE	01 02 03 04 05 06 M 07 N 03 M 09 M 10 M 11 R	Jul 77 Jul 77 Oct 77 Sep 77 Oct 77 Jan 78 Feb 78 Apr 78 Apr 78 Apr 78 Jun 78
LPTSPL NO CONTINUE AFTER PROGRAM ABORT	01 M	May 78
SINGLE USER DIBOL SPURIOUS I/O ERRORS DURING ISAM STORE CHANGE READS STATEMENT TO ACCEPT 8-BIT ASCII LOCASE CONVERTS UNDERLINE TO RUBOUT ISAM RECORDS CROSSING BLOCK BOUNDARIES PROBLEM WITH 32KB OR LESS REPLACEMENT PAGES "NOT ENOUGH MEMORY" CONDITION RECORDS BEING LOST RUNNING V3 ON LSI	91 92 93 94 95 96 97 M 93 M	Jun 77 Apr 77 Jun 77 Aug 77 Sep 77 Oct 77 Jan 78 Feb 78 Apr 78

Component	Sequence	Mon/Yr
SORTG TAGSORTS NOT ALLOWED ON ISAM FILES CORRECTION TO VERSION "A" PATCH	01 02	May 77 Oct 77
SORTM  I/O ERROR INTERPRETED AS AN INPUT END OF FILE  NEGATIVE NUMBERS IN SORT/MERGE  SORTING CARETS  INCORRECT RECORD COUNT  FIRST RECORD OUT OF ORDER	•	Apr 77 Oct 77 Jan 78 Feb 78 Mar 78
CHANGE READS STATEMENT TO ACCEPT 8-BIT ASCII REPLACEMENT PAGES PROGRAM SIZE CALCULATIONS FOR TSD I/O RACE CONDITION GARBLED OUTPUT DUE TO ALPHA OR DECIMAL DISPLAYS RENAM FEATURE OF DIBOL LOCASE CONVERTS UNDERLINE TO RUBOUT ISAM FILE SHARING PROBLEM IMPOSSIBLE TRAP ON OVERLAYING ISAM RECORDS CROSSING BLOCK BOUNDARIES RECORDS BEING LOST PERMANENTLY LOCKED GROUP RUNNING V3 ON LSI CLOSING ISAM FROM AN EXTERNAL SUBROUTINE PROBLEM WITH ISAM INPUT	01 02 03 04 95 06 07 03 99 10 11 M 12 M 13 M 14 M	Apr 77 Apr 77 May 77 Jun 77 Jun 77 Jun 77 Jun 77 Jun 77 Aug 77 Feb 78 Mar 78 Apr 78 Apr 78
CTS-300 V3 AND CTS-300/DIS V3.5		
ISAM REPAIR PROGRAM	Ø1 O	Mar 78
CTS-300 V4		
DECFORM ADDITONAL INFORMATION ON MATH OPTION UNDEFINED GLOBALS WITH DECFORM TWO PROBLEMS IN FOCOMP EOF AFTER CHANGED RECORD LOST RECORD ON DUPLICATE KEY MESSAGE FOR SPEED READERS EXITING DECFORM VIA FIVE-PART QUESTION TOO FEW DATA FIELDS RETURNED	01 N 02 03 M 04 M 05 M 06 M 07 M 03 M	Dec 77 Jan 78 Feb 78 Mar 78 Apr 78 Apr 78 Jun 78 Jun 78
DICOMP TRAP TO 4 UNDER XM TRAP TO 10 UNDER F3	01 M 02 M	Feb 78 Feb 73
DOCUMENTATION REPLACEMENT PAGES DOCUMENTATION CHANGES TO CTS-300 SYSTEM USER'S GUIDE DOCUMENTATION CHANGES TO DECFORM USER'S GUIDE	01 N 02 N 03 N	Dec 77 Jun 78 Jun 78
ISMUTL THREE PROBLEMS IN ISMUTL WRONG FILE SPACE ALLOCATION ERRONEOUS ERROR MESSAGE ERROR 28 LEGAL CHARACTERS IN ISAM RECORDS DUPLICATE KEYS IN THE INPUT FILE	01 M 02 M 03 M 04 M 05 R 06 M	Dec 77 Apr 78 Apr 78 Apr 78 May 78 Jun 73
LPTSPL JOB MISHANDLING	<b>01</b> M	Jan 73
REDUCE MULTIPLE FILE PROBLEM	31 M	Jan 78
SINGLE USER DIBOL PROBLEM WITH CLOSING A FILE RANDOM ACCESS PROBLEM MINUS ZERO LPQUE DOES NOT WORK	91 M 92 M 93 M 94 M	Dec 77 Jan 78 Jan 78 Jan 79

Component	Sequence	Mon/Yr
Avanuar 1	a.e. v	7 70
CHANNEL 1 FIELD EDITING	05 M 06 M	Jan 78 Jan 78
WRONG ERROR MESSAGE	97 M	Feb 78
MINUS ZERO	Ø8 M	Feb 78
S.U. DIBOL WORKS ONLY UNDER XM	Ø9 M	Feb 78
RECORDS BEING LOST	10 M	Feb 78
NO SINGLE USER ON 11/10	11 M	Feb 78
RENAME PROBLEM	12 M	Apr 78
NO MAGTAPE IN V4	13 M	Apr 78
ABORT ON SECOND LPQUE STATEMENT	14 M	Jun 78
XCALL VERSN BEGETS TRAP TO 4 LPNUM CAUSES FILE NOT FOUND	15 M 16 M	Jun 78
diada Caoses file noi found	10 4	Jun 78
SORTG		
KDTYP MISSING	91 M	Feb 78
SORTM		
SORTING CARETS	Ø1 N	Dec 77
TAGSORTS WITH MULTIPLE KEYS	02 M	Jan 78
FIRST RECORD OUT OF ORDER	Ø3 M	Mar 78
SORTP		
NO PROTECTION FROM MIXING DATA MODES	01 M	Jun 78
The There is a second of the s	D1 11	oun 75
STATUS.TSD		
WRONG JX INFORMATION	Ø1 M	Dec 77
PENDING MESSAGES	Ø2 M	Jan 78
PROBLEM DURING JOB STARTUP	Ø3 Y	Mar 78
TSD		
TNMBR TRAPS TO 4	Ø1 M	Jan 78
RANDOM ACCESS PROBLEM	92 M	Jan 78
MINUS ZERO	Ø3 M	Jan 78
DELETE CAUSES STACK OVERFLOW	94 M	Jan 78
FIELD EDITING	05 M	Jan 78
PROBLEM WITH ISAM INPUT	96 M	Jan 78
SEND CAUSES STACK OVERFLOW	07 M	Feb 78
STATUS GIVES FALSE REPORT FILE SHARING	08 M 09 M	Feb 73 Feb 78
CHANNEL IN USE PROBLEM	10 M	Feb 73
PROGRAMS CREATED IN REGION Ø	11 M	Feb 78
IMPLICIT JOB STARTUP PROBLEM	12 M	Feb 78
PENDING MESSAGES DESTROY SYMBOL TABLE	13 M	Feb 78
TERMINALS IGNORED	14 M	Feb 73
TROUBLE WITH TSD UNDER FB	15 M	Feb 78
MEMORY FAULT WITH SEND/RECV PERMANENTLY LOCKED GROUP	16 M	Feb 78
SLOW TERMINAL I/O	17 M 18 M	Mar 78 Mar 78
PROBLEM WITH FORCED JOB AND TERMINAL NUMBER	10 M	Mar 78
INCORRECT CHECK FOR FREE SPACE	20 M	Mar 78
SYSGEN/TSDGEN PROBLEM	21 M	Mar 78
OPENING LP: GENERATES ERRORS	22 M	Mar 78
RECORDS BEING LOST	23 M	Apr 78
BAD I/O, FLAG NOT CLEARED	24 M	Apr 78
CLOSING ISAM FROM EXTERNAL SUBROUTINE DISPLAY FROM DETACHED PROGRAM TO DETACHED TERMINAL	25 M 26 M	Apr 78 Apr 78
NO MAGTAPE IN V4	27 M	Apr 78
BASE LEVEL 2	28 M	Apr 78
R6 STACK OVERFLOW	29 M	May 78
TSD HANGS IF LP GOES OFF LINE	30 M	Jun 78
SLEEP PAST MIDNIGHT, NEVER WAKE UP	31 M	Jun 78
LOWER CASE CONVERTS TO UPPER CASE	32 M	Jun 73
THREE PROBLEMS IN XMTSD	33 M	Jun 78
XCALL VERSN BEGETS TRAP TO 4	34 M	Jun 78
SLAVE REFUSES TO WORK MORE LP: NOHANG DIFFICULTIES	35 M 36 M	Jun 78
MORE TRAPS TO 4 AND 10	36 м 37 м	Jun 78 Jun 78
NO ALIGN OR DELETE WITH LPQUE	38 M	Jun 78
TRAP TO 10 CAUSED BY OPEN ISAM FILE	39 M	Jun 78
NO ROOM FOR BUFFER CAUSES TRAP TO 4/10	40 M	Jun 73

Component	Sequence	Mon/Yr
CTS-300/DIS V3.5		
USE OF RSTAT WITH ISAM FILES	01 R	NOV 77
DECFORM  SEARCHMODE AND RENAM PROBLEM - NEW VERSION NUMBER MICRO CODE CAUSES TRAP TO 10 DECFORM RESTRICTIONS EXTRA CHARACTERS AT STATEMENT END FOCOMP INCORRECTLY ALLOCATES AN EXTRA CHARACTER CONDITIONAL GOTO AND CONDITIONAL SKIP DECFORM PROBLEMS AND RESTRICTION HANG ONE EXIT TWO PROBLEMS IN FOCOMP EOF AFTER CHANGED RECORD NEGATIVE NUMBER ENDING IN ZERO LOST RECORD ON DUPLICATE KEY MESSAGE FOR SPEED READERS EXITING DECFORM VIA FIVE-PART QUESTION	91 92 93 94 95 95 97 78 M 99 M 10 M 11 M 12 M 13 M	Oct 77 Oct 77 Nov 77 Nov 77 Nov 77 Nov 77 Jan 78 Feb 78 Mar 78 Apr 78 Apr 78 Apr 78
DICOMP IMPROPER GLOBAL INFORMATION COMMON CAUSES ERROR	ที่ 1 ขั 2	Nov 77 Nov 77
DOCUMENTATION MULTIVOLUME FILES ON MAGTAPE PAGE CORRECTION DOCUMENT ERROR	01 N 02 N 03 N	Feb 78 Apr 78 Apr 78
FILEX RESTRICTION ON FILEX FILEX INFORMATION AND RESTRICTION	01 R 02 R	Nov 77 Mar 78
ISMUTL INDEXING PROBLEM INCORRECT APPEND CALCULATION ERR 16 IN REORG WRONG RECORD COUNT THREE PROBLEMS IN ISMUTL REPLACEMENT PAGES WRONG FILE SPACE ALLOCATION ERRONEOUS ERROR MESSAGE ERROR 28 LEGAL CHARACTERS IN ISAM RECORDS DUPLICATE KEYS IN THE INPUT FILE	01 02 03 04 05 06 N 07 M 03 M 09 M 10 R 11 M	Nov 77 Nov 77 Nov 77 Nov 77 Jan 78 Feb 78 Apr 78 Apr 73 Apr 78 May 78 Jun 78
LPTSPL NO CONTINUE AFTER PROGRAM ABORT	01 M	May 78
SINGLE USER DIBOL LOCASE CONVERTS UNDERLINE TO RUBOUT ISAM RECORDS CROSSING BLOCK BOUNDARIES PROBLEM IN 32K OR LESS "NOT ENOUGH MEMORY" CONDITION SPURIOUS I/O ERRORS CURING ISAM STORE RECORDS BEING LOST	91 92 93 94 95 96 M	Oct 77 Nov 77 NOV 77 JAN 78 JAN 78 Feb 78
SORTG TAGSORTS NOT ALLOWED ON ISAM FILES CORRECTION TO VERSION "A" PATCH	01 02	Oct 77 Nov 77
SORTM NEGATIVE NUMBERS IN SORT/MERGE SORTING CARETS INCORRECT RECORD COUNT FIRST RECORD OUT OF ORDER	01 02 N 03 M 24 M	Nov 77 Jan 78 Feb 78 Mar 78
TSD I/O RACE CONDITION ERRONEOUS PATCH TO TSD INCORRECT JOB NUMBER AT STARTUP TIME PROBLEM WITH RENAM LOCASE CONVERTS UNDERLINE TO RUBOUT	01 01a 02 33	Sep 77 Nov 77 Sep 77 Sep 77 Oct 77

Component	Sequence	Mon/Yr
ISAM FILE SHARING PROBLEM	<b>Ø</b> 5	Nov 77
IMPOSSIBLE TRAP ON OVERLAYING	96	Nov 77
ISAM RECORDS CROSSING BLOCK BOUNDARIES	97	Nov 77
RECORDS BEING LOST PERMANENTLY LOCKED GROUP	98 M	Feb 78 Mar 78
CLOSING ISAM FROM AN EXTERNAL SUBROUTINE	09 М 10 М	Apr 78
PROBLEM WITH ISAM INPUT	11 M	Apr 78
DECLAB-03 FORTRAN EXTENSIONS		
FORTRAN CRASHES AFTER RUNNING PROGRAM WITH "SETR"	Ø1 M	Mar 73
FOCAL/RT-11 V1B		
FOR COMMAND WITHOUT AN ARGUMENT	21 M	2at 75
OPERATE COMMAND CAUSES ERROR	01 M 04 M	Oct 75 Aug 76
FCLK ROUTINE GIVES INCORRECT TIME	Ø5 O	Aug 76
"LIBRARY ASK" COMMAND "/Z" SWITCH	96 O	Feb 77
@START NOT WORKING WHEN DOWN-LINE LOADING	07 м 03 м	Aug 77 Mar 78
FORTRAN IV/RT-11 V1C		
CLARIFICATION: INTERFACING ASSEMBLY LANGUAGE		
ROUTINES TO FORTRAN FLOATING MULTIPHY FAILS TO DETECT UNDERFLOW IN	Ø1	Feb 75
NHD VERSION OF OTS	42	May 76
COMPILING MULTIPHY PROGRAM UNITS FROM A SINGLE CASSETTE	43	May 75
STAND-ALONE FORTRAN STACK USAGE WRITING ON READ-ONLY FILE	44 45	May 76 May 76
WRITING BEYOND END OF RANDOM ACCESS FILE	47	May 76
ASYNCHRONOUS I/O, EVENT DRIVER I/O, AND FORTRAN PROGRAMS	49	May 76
OBJECT TIME FORMATTING WITH H FORMAT SPECIFICATION, FORMATTED RECORD WRITING GREATER THAN 132 CHARACTERS		
IN LENGTH MAY FAIL	51	May 76
OBJECT TIME ENCODE/DECODE	52	Sep 76
CLARIFICATION OF I/O LIST ELEMENTS MORE THAN 19 NULL ARGUMENTS CAUSE FATAL ERROR Y	53 54	Jun 76 Jul 75
CALL ASSIGN WITH FILE NAME TERMINATED WITH SPACE ABORTS	55	Jul 76
I-FORMAT CONVERSION ERROR	56	Jul 76
J=J-J GIVES INCORRECT RESULTS LISTING FILES DIRECTED TO MAGTAPE	57 58	Jul 76 Jul 76
CALL CLOSE ON INACTIVE UNIT	59	Aug 76
ARITHMETIC STATEMENT FUNCTIONS WITH NO ARGUMENTS	59	Aug 76
COMPUTED GO TO	61	Aug 76
CLARIFICATION: COMPARING ASCII DATA ITEMS IBEF NOT PROPERLY DECREMENTED	62 63	Aug 76 Aug 76
LPS DEVICE CONFLICT CAUSED BY CALL SETR AFTER CALL RTS	64	Aug 75
LOGICAL*1 VARIABLES AS DO-LOOP TERMINATORS IADC AFTER RTS DOES NOT WORK	65 66	Sep 76 Sep 76
MISSING LEFT QUOTE IN CALL STATEMENT CAUSES COMPILER	55	3ep 75
TO TRAP	57	Sep 76
CALL OR FUNCTION ARGUMENTS MAY CAUSE THE COMPILER TO TRAP	58	Sep 76
INCORRECT CODE GENERATION FOR ASSIGNMENT STATEMENTS	30	3ep 70
INVOLVING BOTH INTEGER*2 AND INTEGER*4 SUB-		
SCRIPTED ARRAYS WRITING RECORDS GREATER THAN 132 BYTES LONG	69 70	Nov 76 Sep 76
USING FORTRAN COMPLETION ROUTINES WITH SYSLIB	7 b 71	Oct 76
EXTENDING COMMON BLOCK BACKWARDS MAY CAUSE TRAP TO 10	73	Oct 75
INCORRECT CODE GENERATION FOR CERTAIN FUNCTION CALLS IN SUBSCRIPT LISTS	74	Dec 75
CERTAIN "ENCODE/DECODE" STATEMENTS ARE FLAGGED AS	/ 'I	Dec 75
SYNTAX ERRORS	75 M	Feb 77
STACK OVERFLOW CONDITION CAN RESULT IN SYSTEM FAILURE END-OF-LINE COMMENTS	76 77	Mar 77 Apr 77
RUNNING FORTRAN PROGRAMS IN FOREGROUND MODE	78	May 77
FORMAT STATEMENT PROCESSING	79	MAŸ 77
SUBROUTINE NAMING CONFLICT PLOT55 DESCRIPTION	30 81	Nov 77 Nov 77
FROTOS ORDOWILLION	01	40 V //

Component	Sequence	Mon/Yr
ASSIGNMENT STATEMENTS WITH EQUIVALENCE VARIABLES AS THE TARGET ILLEGAL MEMORY REFERENCE ERROR DEVICE CONFLICT ERROR FORTRAN CRASHES AFTER RUNNING PROGRAM WITH "SETR" RUNNING PROGRAM WITH "SETR" TWO PROBLEMS WITH THE RT-11/FORTRAN GRAPHIC EXTENSIONS TWO PROBLEMS WITH THE RT-11/FORTRAN GRAPHIC EXTENSIONS	82 R 83 84 R 85 M 86 M 87 88 M	Dec 77 Jan 78 Jan 78 Feb 78 Mar 78 May 73 Apr
FORTRAN IV/RT-11 V2		
COMPILER KNOWN FORTRAN IV V2 BUGS USE OF THE FIND STATEMENT RAISING COMPLEX NUMBERS EXTRA CHARACTERS MAY RESULT IN COMPILER TRAPPING SIMRT SIMRT CONTINUED TRANSMITTING ASCII DATA IN-LINE CODE DOSPOSE= 'KEEP' OPTIN CRASH DUMPS SYNTAX ERRORS IN SOURCE PROGRAM MAY CAUSE COMPILER TO ABORT ERRORS OCCUR WITH NO DO LOOP	01 N 02 M 03 M 04 M 05 M 06 M 07 R 08 N 09 R 10 N	Feb 78 Feb 78 Feb 78 Feb 78 Feb 78 Mar 78 Mar 78 Apr 78 Apr 78
GAMMA-11 F/B V2		
DATA ANALYSIS PROGRAM STUDY TRANSFER PROGRAM DISPLAYS TOO MANY INDEX LINES PER PAGE BASIC AND FOCAL BACKGROUND PROGRAM CAN HANG THE FOREGROUND TERMINAL CNTL/C UNDER SINGLE JOB MONITOR	01 M 02 M 03 M 04 M 05 M 06 M	Feb 77 Feb 77 Feb 77 Feb 77 Feb 77 Feb 77
CROSSHAIRS FAIL TO APPEAR IN SLICE UNDOCUMENTED PROGRAMS FORTRAN SUPPORT INCORRECTLY CONVERTS DATA AND TIME OF INQUISITION "RS" COMMAND IS INCORRECTLY	07 N 08 M 09 N	Mar 77 May 77 Jun 77
LABORATORY APPLICATIONS-11 V3		
A NEW MODULE TO ENHANCE DATA FLOW WITHIN LA-11	01 N	Oct 76
HISTO.MAC ACQUIRING AND PROCESSING HISTOGRAM DATA	01 M	Sep 76
LABMAC.SML ERRONEOUS MACRO	Ø1 M	Sep 77
PEAK.MAC WIDE PEAKS PEAK PROBLEMS AND CORRECTIONS ARITHMETIC CORRECTION FOR PEAK AREA MISSING PATCH IN RELEASE NOTES	01 M 02 M 03 M 04 M	MAR 76 Jul 75 Dec 76 Oct 77
SPARTA  LPS AND AR-11 VECTOR AND STATUS REGISTER USING SPARTA AND FLOATING POINT BUFFERS AR-11 TIMING PROBLEMS WITH ADSAM AND SPARTA  FFT SCALING CORRECTION SCALE FACTOR CORRECTION FOR SPARTA COMMANDS FAC AND FCC DATA DISPLAYS USING LA-11 DATA PREPARATION FOR SPARTA COMMANDS FAC AND FCC SPARTA CORRECTIONS FOR POINT-PLOT DISPLAY ADDING COMMANDS TO SPARTA CORRECTION FOR THE DPV COMMAND WITH POINT PLOT DISPLAY GENERAL SUBROUTINE MODULE FOR EAE INCORRECT PHASE ANGLE CALCULATION	91 N 92 N 93 O 94 M 95 M 96 N 97 N 98 M 99 M 11 O 12 M	Dec 75 Feb 76 Feb 76 Mar 76 Mar 76 Apr 76 Apr 75 May 76 Jun 76 Jun 76 Oct 76

*MOU" AND "MIN" COWMANDS CAN BE READ OUT AND IN CORRECTLY 13 N Jan 77 AUTO AND CROSS CORRELATION 15 M Jan 77 AUTO AND CROSS CORRELATION 15 M Jan 77 AUTO AND CROSS CORRELATION 15 M Peb 77 AUTO AND CROSS CORRELATION 15 M Jan 77 AUTO AND CROSS CORRELATION 16 M Jan 77 AUTO AND CROSS CORRELATION 17 M JUL 77 A/D SAMPLING: PAST MODE 17 M JUL 77 A/D SAMPLING: PAST MODE EXIT 19 M Mar 78 SWEEP SAMPLING: FAST MODE SWEEP SAMPLING: FAST MODE 17 M JUL 77 THRU HON TO START DATA ACQUISITION WHEN CSTART EQUALS ZERO 18 M DEC 75 CONTINUOUS SAMPLING: CONSTITUAN ASSEMBLY ERRORS 30 M JUL 77 CONTINUOUS SAMPLING: CONSTITUAN ASSEMBLY ERRORS 30 M JUL 77 DOCUMENTATION CORRECTIONS  WU BASIC/RT-11 PLOTTING PACKAGE V2  SUBROUTINE PLOT DOES NOT CORRECTLY REPRODUCT VITL PICTURE  WU BASIC/RT-11 V1  SUILDING MU SASIC/RT-11 UNDER RT-11 V2C SUBROUTINE PLOT DOES NOT CORRECTLY REPRODUCT VITL PICTURE  WU BASIC/RT-11 V1  SUILDING MU SASIC/RT-11 UNDER RT-11 V2C SUSTAIN IMMEDIATE MODE "COSUBLE" USING IMMEDIATE MODE "COSUBLE"  WU BASIC/RT-11 SYSTEM INSTALLATION GUIDE DEC-11-LIBMA-A-UNI REPLACEMENT PAGES 30 N JUL 77 RAN STRENGTH PAGES 30 N JUL 77 REPLACEMENT PAGES 30	"MOU" AND "MIN" COMMANDS CAN BE READ OUT AND IN CORRECTLY  MULTIPLE SYNCH PULSES  14 M Jan 77 AUTO AND CROSS CORRELATION 15 M 76 Peb 77 AUTO AND CROSS CORRELATION 15 M 76 Peb 77 AUTO AND CROSS CORRELATION 16 M 76 Peb 77 AUTO AND CROSS CORRELATION 17 M 76 Peb 77 AUTO AND CROSS CORRELATION 18 M 76 Peb 77 AUTO AND CROSS CORRELATION 19 M 76 Peb 77 AUTO AND CROSS CORRELATION 19 M 76 Peb 77 AUTO AND CROSS CORRELATION 19 M 76 Peb 77 AUTO AND CROSS CORRELATION 19 M 76 Peb 77 AUTO AND CROSS CORRELATION 19 M 76 Peb 77 AUTO SAMPLING: PAST MODE EXIT 19 M 76  SWEEP SAMPLING: PAST MODE 20 M 76 HBU			
CORRECTLY	CORRECTLY	Component	Sequence	Mon/Yr
### MULDING MU BASIC/RT-11 UNDER RT-11 V2C ### BASIC/RT-11 V1D ### BASIC/RT-11 V1D ### BASIC/RT-11 V1D ### BASIC/RT-11 V1  CLARIFICATION OF SEARCH FAILURE IN SUBROUTINE FIND ### BASIC/RT-11 V1  CLARIFICATION OF SEARCH FAILURE IN SUBROUTINE FIND ### BASIC/RT-11 V1  CLARIFICATION OF SEARCH FAILURE IN SUBROUTINE FIND ### BASIC/RT-11 V1  CLARIFICATION OF SEARCH FAILURE IN SUBROUTINE FIND ### BASIC/RT-11 V1  CLARIFICATION OF SEARCH FAILURE IN SUBROUTINE FIND ### BASIC/RT-11 V1  CLARIFICATION OF SEARCH FAILURE IN SUBROUTINE FIND ### BASIC/RT-11 V1  CLARIFICATION OF SEARCH FAILURE IN SUBROUTINE FIND ### BASIC/RT-11 V1  CLARIFICATION OF SEARCH FAILURE IN SUBROUTINE FIND ### BASIC/RT-11 V1  CLARIFICATION OF SEARCH FAILURE IN SUBROUTINE FIND ### BASIC/RT-11 V1  CLARIFICATION OF SEARCH FAILURE IN SUBROUTINE FIND ### BASIC/RT-11 V1  CLARIFICATION OF SEARCH FAILURE IN SUBROUTINE FIND ### BASIC/RT-11 V1  CLARIFICATION OF SEARCH FAILURE IN SUBROUTINE FIND ### BASIC/RT-11 V1  CLARIFICATION OF SEARCH FAILURE IN SUBROUTINE FIND ### BASIC/RT-11 V1  CLARIFICATION OF SEARCH FAILURE IN SUBROUTINE FIND ### BASIC/RT-11 V1  CLARIFICATION OF SEARCH FAILURE IN SUBROUTINE FIND ### BASIC/RT-11 V1  CLARIFICATION OF SEARCH FAILURE IN SUBROUTINE FIND ### BASIC/RT-11 V1  CLARIFICATION OF SEARCH FAILURE IN SUBROUTINE FIND ### BASIC/RT-11 V1  CLARIFICATION OF SEARCH FAILURE IN SUBROUTINE FIND ### BASIC/RT-11 V1  CLARIFICATION OF SEARCH FAILURE IN SUBROUTINE FIND ### BASIC/RT-11 V1  CLARIFICATION OF SEARCH FAILURE IN SUBROUTINE FIND ### BASIC/RT-11 V1  CLARIFICATION OF SEARCH FAILURE IN SUBROUTINE FIND ### BASIC/RT-11 V1  CLARIFICATION OF SEARCH FAILURE IN SUBROUTINE FIND ### BASIC/RT-11 V1  CLARIFICATION OF SEARCH FAILURE IN SUBROUTINE FIND ### BASIC/RT-11 V1  CLARIFICATION OF SEARCH FAILURE IN SUBROUTINE FIND ### BASIC/RT-11 V1  CLARIFICATION OF SEARCH FAILURE IN SUBROUTINE FIND ### BASIC/RT-11 V1  CLARIFICATION OF SEARCH FAILURE OF TOO OF MORE USERS ### BASIC/RT-11 V1  CLARIFICATION OF SEARCH FAILURE OF TOO OF TOO OF TOO OF TOO OF TOO OF TOO O	MULTIPLE SYNCH PULSES	"MOU" AND "MIN" COMMANDS CAN BE READ OUT AND IN		
AUTO AND CROSS CORRECTATION ALLOCATION MORE THAN 16K BUFFERS IN SPARTA 15 M Peb 77 A/D SAMPLING: PAST MODE A/D SAMPLING: PAST MODE EXIT 19 M MAR 78  SWEEP.MAC SNEEP SAMPLING: FAST MODE SNEEP SAMPLING: FAST MODE SNEEP SAMPLING: FAST MODE SNEEP SAMPLING: FAST MODE  THRU HOW TO START DATA ACQUISITION WHEN CSTART EQUALS ZERO WILLTICHANHEL SINGLE RATE SCHMIT TRIGGER SNITCH BOUNCE 22 M Dec 75 CONTINUOUS SAMPLING: CONDITIONAL ASSEMBLY ERRORS 33 M Jul 77 DOCUMENTATION CORRECTIONS  SUBROUTINE PLOT DOES NOT CORRECTLY REPRODUCT VIII PICTURE  MU BASIC/RT-11 VI  SULLDIAG MU BASIC/RT-11 UNDER RT-11 V2C ERMOTE TERMINAL SUPPORT ON MODEWS OVERLAY LINE WORKS INCORRECTLY SUSING UNDITATE MODE "COSUBS" ULY SAMPLING: CONDITIONAL BASEMBLY BROWS SUBROUTINE DE PLOT DOES NOT CORRECTLY BEPRODUCT VIII PICTURE  MU BASIC/RT-11 WI  BUILDIAG MU BASIC/RT-11 UNDER RT-11 V2C ERMOTE TERMINAL SUPPORT ON MODEWS SUSTROUTINE PLOT DOES NOT CORRECTLY BEPRODUCT SUSING IMMODITATE MODE "COSUBS" USING IMMODITATE MODE "COSUBS"  BUDLATT-11 SYSTEM INSTALLATION GUIDE DEC-11-LIBMA-A-DNI  BEPLACEMENT PAGES  11 Jan 77 REPLACEMENT PAGES 10 JAN JAN 78  MU BASIC/RT-11 SYSTEM INSTALLATION GUIDE DEC-11-LIBMA-A-DNI  BEPLACEMENT PAGES 20 N JAN 78  PDL/RT-11 V1  CLARIFICATION OF SEARCH FAILURE IN SUBROUTINE PIND 31 R API 77 REPLACEMENT PAGES 32 N JAN 78  REMOTE/RT-11 V1  SCHEDULER DOSS NOT PROPERLY SET PROCESSOR PRIORITY NEEL ACCUMENT PAGES 34 N JUN 77 REPLACEMENT PAGES 35 N MAY 76 NOSDIT- 3 RAIPS NOSDITONAL LORDER PATAL  SCHEDULER DOSS NOT PROPERLY SET PROCESSOR PRIORITY 15 N MAY 76 NOSDIT- 3 RAIPS NOSDITONAL LORDER PATAL  SCHEDULER NOOR SAMPLING SOR VOUR MORE USERS 4 M MAY 76 NOSDIT- 3 RAIPS NOOR SECOND TIME FOR LINE TIMEOUTS IS SET INCORRECTLY 15 N MAY 76 NOSDIT- 3 RAIPS NOOR SECOND TIME FOR LINE TIMEOUTS IS SET INCORRECTLY 15 N MAY 76 NOOR SECOND TIME FOR LINE TIMEOUTS IS SET INCORRECTLY 16 N MAY 76 NOOR SECOND	AUTO AND CROSS CORRECATION ALLOCATING MORE THAN 16K BUPERS IN SPARTA 15 M			
ALLOCATING MORE THAN 16K BUFFERS IN SPARTA 15 M Peb 77 M/D SAMPLING: FAST MODE EXIT 19 M MAR 78 NODE SAMPLING: FAST MODE EXIT 19 M MAR 78 SWEEP_MAC	ALLOCATING MORE THAN 16K BUFFERS IN SPARTA	MULTIPLE SYNCH PULSES		
A/D SAMPLING: FAST MODE A/D SAMPLING: FAST MODE EXIT  SWEEP,MAC SWEEP SAMPLING: FAST MODE  SWEEP,MAC SWEEP SAMPLING: FAST MODE  TURIN HOW TO START DATA ACQUISITION HEN CSTART EQUALS ZERO  MULTICHANNEL SINGLE RATE SCHMIT TRIGSER SWITCH BOUNCE  GOVERNMENT START DATA ACQUISITION HEN CSTART EQUALS ZERO  MULTICHANNEL SINGLE RATE SCHMIT TRIGSER SWITCH BOUNCE  GOVERNMENT START DATA ACQUISITION HEN CSTART EQUALS ZERO  MULTICHANNEL SINGLE RATE SCHMIT TRIGSER SWITCH BOUNCE  GOVERNMENT START DATA MITH DOAL SAMPLY BERORS  GOVERNMENT SAMPLING: CORDITIONAL ASSEMBLY BERORS  MULTICHANDLE AND SAMPLING: CORDITIONAL ASSEMBLY BERORS  SWEROUTINE PLOT DOES NOT CORRECTLY REPRODUCT  VITI PICTURE  MU BASIC/RT-11 V1  SUILDING MU BASIC/FT-11 UNDER RM-11 V2C  BUILDING MU BASIC/FT-11 UNDER RM-11 V2C  SUING IMMEDIATE MODE COGUBER  OVERHAY LOWER FORCESTORY  GOVERNAY LOWER FORCESTOR FORCESTOR PRIORITY  ADDITIONAL FILES ON RELEASE KIT (MU3*.*)  MU BASIC/RT-11 SYSTEM INSTALLATION GUIDE  DEC-11-LIBMA-A-DNI  REPLACEMENT PAGES  GOVERNAY LOWER FORCESTOR PRIORITY  MU BASIC/RT-11 V1  CLARIFICATION OF SEARCH FAILURE IN SUBROUTINE PIND  CLARIFICATION OF SEARCH FAILURE IN SUBROUTINE PIND  FREMOTE/RT-11 V1  CLARIFICATION OF SEARCH FAILURE IN SUBROUTINE PIND  GOVERNATION OF SEARCH FAILURE IN GOVERN OF MAY 76  NOBOLT-9 SHALTS  CREMOTE/RT-11 V1  CLARIFICATION OF SEARCH FAILURE FOR CONDETS  GOVERN OF THE STAYS IN A FILE MESSAGE LOOP  GOVERN SHOW OF	A/D SAMPLING: PAST MODE A/D SAMPLING: PAST MODE EXTERNAL SYSTEM STATEMENT  SWEEP.MAC  HOW BO START DATA ACQUISITION SHEN CSTART EQUALS ZERO  ### WILD CANNER  ### WILD CAN	ALLOCATING MORE THAN 16K RUFFERS IN SPARTA		
SAMPLING: PAST HODE EXIT   19 M	### APP ### AST MODE EXIT			
### SMEP SAMPLING: FAST MODE  ### TRU  ### HOW TO START DATA ACQUISITION WHEN CSTART EQUALS ZERO ### DEC 75  ### MULTICHANNEL SINGLE RATE SCHMIT TRIGGER SWITCH BOUNCE ### DEC 75  ### MULTICHANNEL SINGLE RATE SCHMIT TRIGGER SWITCH BOUNCE ### DEC 75  ### CONTINUOUS SAMPLING: CMONITIONAL ASSEMBLY ERRORS ### JUL 77  ### CONTINUOUS SAMPLING: DMA WITH DUAL SAMPLE # HOLD ### JUL 77  ### CONTINUOUS SAMPLING: DMA WITH DUAL SAMPLE # HOLD ### JUL 77  ### CONTINUOUS SAMPLING: DMA WITH DUAL SAMPLE # HOLD ### JUL 77  ### CONTINUOUS SAMPLING: DMA WITH DUAL SAMPLE # HOLD ### JUL 77  ### CONTINUOUS SAMPLING: DMA WITH DUAL SAMPLE # HOLD ### JUL 77  ### CONTINUOUS SAMPLING: DMA WITH DUAL SAMPLE # HOLD ### JUL 77  ### CONTINUOUS SAMPLING: DMA WITH DUAL SAMPLE # HOLD ### JUL 77  ### CONTINUOUS SAMPLING: DMA WITH DUAL SAMPLE # HOLD ### JUL 77  ### CONTINUOUS SAMPLING: DMA WITH DUAL SAMPLE # HOLD ### JUL 77  ### CONTINUOUS SAMPLING: DMA WITH DUAL SAMPLE # HOLD ### JUL 77  ### WID BASIC/RT-11 UNDER RT-11 V2C ### JUL 78  ### WID BASIC/RT-11 UNDER RT-11 V2C ### JUL 78  ### WID BASIC/RT-11 UNDER RT-11 WHEN RUNNING MU BASIC ### JUL 78  ### WID BASIC/RT-11 SYSTEM INSTALLATION GUIDE DEC-11-LIBMA-A-DNI RELEASE KIT (MUB**) ### JUL 78  ### PDL/RT-11 V1  ### CLARRIFICATION OF SEARCH FAILURE IN SUBROUTINE FIND ### JUL 78  ### PDL/RT-11 V1  ### CLARRIFICATION OF SEARCH FAILURE IN SUBROUTINE FIND ### JUL 78  ### REPLACEMENT PAGES ### JUL 78  ### PDL/RT-11 V1  *** CCHARIFICATION OF SEARCH FAILURE IN SUBROUTINE FIND ### JUL 78  ### REPLACEMENT PAGES ### JUL 78  ### PATCHES TO PDL ### JUL 78  ### REMOTE/RT-11 V1  *** CCHARIFICATION OF SEARCH FAILURE IN SUBROUTINE FIND ### JUL 78  ### PATCHES TO PDL ### JUL 78  ### REMOTE/RT-11 V1  *** CCHARIFICATION OF SEARCH FAILURE IN SUBROUTINE FIND ### JUL 78  ### REMOTE/RT-11 V1  *** CCHARIFICATION OF SEARCH FAILURE IN SUBROUTINE FIND ### JUL 78  ### PATCHES TO PDL ### JUL 78  ### JUL 78  ### JUL 78  ### JUL 78  ### JUL	### THRU  ### THRU  ### THRU  ### THRU  ### THRU  ### THRU  ### TO START DATA ACQUISITION WHEN CSTART EQUALS ZERO  ### TO START DATA ACQUISITION WHEN CSTART EQUALS ZERO  ### TO START DATA ACQUISITION WHEN CSTART EQUALS ZERO  ### TO START DATA ACQUISITION WHEN CSTART EQUALS ZERO  ### TO START DATA ACQUISITION WHEN CSTART EQUALS ZERO  ### TO START DATA ACQUISITION WHEN CSTART EQUALS ZERO  ### TO START DATA ACQUISITION WHEN CSTART EQUALS ZERO  ### TO START DATA ACQUISITION WHEN CSTART EQUALS ZERO  ### TO START DATA ACQUISITION WHEN CSTART EQUALS ZERO  ### TO START DATA ACQUISITION WHEN CSTART EQUALS ZERO  ### TO START DATA ACQUISITION WHEN CSTART EQUALS ZERO  ### TO START DATA ACQUISITION WHEN CSTART EQUALS ZERO  ### TO START DATA ACQUISITION WHEN CONTROL TO THE PROPERTY OF			
### SMEP SAMPLING: FAST MODE  ### TRU  ### HOW TO START DATA ACQUISITION WHEN CSTART EQUALS ZERO ### DEC 75  ### MULTICHANNEL SINGLE RATE SCHMIT TRIGGER SWITCH BOUNCE ### DEC 75  ### MULTICHANNEL SINGLE RATE SCHMIT TRIGGER SWITCH BOUNCE ### DEC 75  ### CONTINUOUS SAMPLING: CMONITIONAL ASSEMBLY ERRORS ### JUL 77  ### CONTINUOUS SAMPLING: DMA WITH DUAL SAMPLE # HOLD ### JUL 77  ### CONTINUOUS SAMPLING: DMA WITH DUAL SAMPLE # HOLD ### JUL 77  ### CONTINUOUS SAMPLING: DMA WITH DUAL SAMPLE # HOLD ### JUL 77  ### CONTINUOUS SAMPLING: DMA WITH DUAL SAMPLE # HOLD ### JUL 77  ### CONTINUOUS SAMPLING: DMA WITH DUAL SAMPLE # HOLD ### JUL 77  ### CONTINUOUS SAMPLING: DMA WITH DUAL SAMPLE # HOLD ### JUL 77  ### CONTINUOUS SAMPLING: DMA WITH DUAL SAMPLE # HOLD ### JUL 77  ### CONTINUOUS SAMPLING: DMA WITH DUAL SAMPLE # HOLD ### JUL 77  ### CONTINUOUS SAMPLING: DMA WITH DUAL SAMPLE # HOLD ### JUL 77  ### CONTINUOUS SAMPLING: DMA WITH DUAL SAMPLE # HOLD ### JUL 77  ### WID BASIC/RT-11 UNDER RT-11 V2C ### JUL 78  ### WID BASIC/RT-11 UNDER RT-11 V2C ### JUL 78  ### WID BASIC/RT-11 UNDER RT-11 WHEN RUNNING MU BASIC ### JUL 78  ### WID BASIC/RT-11 SYSTEM INSTALLATION GUIDE DEC-11-LIBMA-A-DNI RELEASE KIT (MUB**) ### JUL 78  ### PDL/RT-11 V1  ### CLARRIFICATION OF SEARCH FAILURE IN SUBROUTINE FIND ### JUL 78  ### PDL/RT-11 V1  ### CLARRIFICATION OF SEARCH FAILURE IN SUBROUTINE FIND ### JUL 78  ### REPLACEMENT PAGES ### JUL 78  ### PDL/RT-11 V1  *** CCHARIFICATION OF SEARCH FAILURE IN SUBROUTINE FIND ### JUL 78  ### REPLACEMENT PAGES ### JUL 78  ### PATCHES TO PDL ### JUL 78  ### REMOTE/RT-11 V1  *** CCHARIFICATION OF SEARCH FAILURE IN SUBROUTINE FIND ### JUL 78  ### PATCHES TO PDL ### JUL 78  ### REMOTE/RT-11 V1  *** CCHARIFICATION OF SEARCH FAILURE IN SUBROUTINE FIND ### JUL 78  ### REMOTE/RT-11 V1  *** CCHARIFICATION OF SEARCH FAILURE IN SUBROUTINE FIND ### JUL 78  ### PATCHES TO PDL ### JUL 78  ### JUL 78  ### JUL 78  ### JUL 78  ### JUL	### THRU  ### THRU  ### THRU  ### THRU  ### THRU  ### THRU  ### TO START DATA ACQUISITION WHEN CSTART EQUALS ZERO  ### TO START DATA ACQUISITION WHEN CSTART EQUALS ZERO  ### TO START DATA ACQUISITION WHEN CSTART EQUALS ZERO  ### TO START DATA ACQUISITION WHEN CSTART EQUALS ZERO  ### TO START DATA ACQUISITION WHEN CSTART EQUALS ZERO  ### TO START DATA ACQUISITION WHEN CSTART EQUALS ZERO  ### TO START DATA ACQUISITION WHEN CSTART EQUALS ZERO  ### TO START DATA ACQUISITION WHEN CSTART EQUALS ZERO  ### TO START DATA ACQUISITION WHEN CSTART EQUALS ZERO  ### TO START DATA ACQUISITION WHEN CSTART EQUALS ZERO  ### TO START DATA ACQUISITION WHEN CSTART EQUALS ZERO  ### TO START DATA ACQUISITION WHEN CSTART EQUALS ZERO  ### TO START DATA ACQUISITION WHEN CONTROL TO THE PROPERTY OF	CHEED MAC		
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HOW TO START DATA ACQUISITION WHEN CSTART EQUALS ZERO   91 M	HOW TO START DATA ACQUISITION NHEN CSTART EQUALS ZERO	SHEET SHIFTERS: TAST MODE	81 W	Aug //
MULTICHANNEL SINGLE RATE SCHMIT TRIGGER SWITCH BOUNCE   92 M	### MULTICHANNEL SINGLE RATE SCHNIT TRIGGER SWITCH SOUNCE   92 M   Dec 76   CONTINUOUS SAMPLING: CONDITIONAL ASSEMBLY ERRORS   93 M   Jul 77   CONTINUOUS SAMPLING: DAM WITH DUAL SAMPLE + HOLD   94 M   Jul 77   DOCUMENTATION CORRECTIONS   85 M   Nov 77    ### LV11/RT-11 PLOTTING PACKAGE V2			
CONTINUOUS SAMPLING: COMDITIONAL ASSEMBLY ERRORS   31 M	CONTINUOUS SAMPLING: COMDITIONAL ASSEMBLY ERRORS	HOW TO START DATA ACQUISITION WHEN CSTART EQUALS ZERO		
CONTINUOUS SAMPLING: DMA WITH DUAL SAMPLE + HOLD	CONTINUOUS SAMPLING: DMA WITH DUAL SAMPLE + HOLD	CONTINUOUS SAMPLING. CONDITIONAL ASSEMBLY PRECIS		
DOCUMENTATION CORRECTIONS	LV11/RT-11 PLOTTING PACKAGE V2			
NU BASIC/RT-11 V1	### SUBROUTINE PLOT DOES NOT CORRECTLY REPRODUCT ### VT11 PICTURE  ### MU BASIC/RT-11 V1  ### SUILDING MU BASIC/RT-11 UNDER RT-11 V2C  ### SUILDING MU BASIC/RT-11 WIDEN KINORRECTLY  ### SUILDING MU BASIC/RT-11 SYSTEM INSTALLATION GUIDE  ### DEC-11-LIBMA-A-DN1  ### SUILDING MU BASIC/RT-11 V3 WIDEN WIDEN KINORRECTLY  ### PLACEMENT PAGES  ### BUILDING MU BASIC/RT-11 V3  ### SUILDING MU BASIC/RT-11 V3 WIDEN WIDEN WIDEN WIDEN KINORRECTLY  ### SUILDING WIDEN WIDE			
NU BASIC/RT-11 V1	### SUBROUTINE PLOT DOES NOT CORRECTLY REPRODUCT ### VT11 PICTURE  ### MU BASIC/RT-11 V1  ### SUILDING MU BASIC/RT-11 UNDER RT-11 V2C  ### SUILDING MU BASIC/RT-11 WIDEN KINORRECTLY  ### SUILDING MU BASIC/RT-11 SYSTEM INSTALLATION GUIDE  ### DEC-11-LIBMA-A-DN1  ### SUILDING MU BASIC/RT-11 V3 WIDEN WIDEN KINORRECTLY  ### PLACEMENT PAGES  ### BUILDING MU BASIC/RT-11 V3  ### SUILDING MU BASIC/RT-11 V3 WIDEN WIDEN WIDEN WIDEN KINORRECTLY  ### SUILDING WIDEN WIDE			
MU BASIC/RT-11 V1	MU BASIC/RT-11 V1	LV11/RT-11 PLOTTING PACKAGE V2		
### WILDING MU BASIC/RT-11 UNDER RT-11 V2C ### 01 Peb 76 REMOTE TERMINAL SUPPORT ON MODEMS 02 May 76 OVERLAY LINE WORKS INCORRECTLY 03 May 76 USING IMMEDIATE MODE "GOSUBS" 04 Dec 76 CLOCK LOSES TIME ON RT-11 WHEN RUNNING MU BASIC 05 JUL 77 REM STATEMENTS 06 Peb 78 ADDITIONAL FILES ON RELEASE KIT (MUB*.*) 07 N May 78  ###################################	### WILDING MU BASIC/RT-11 UNDER RT-11 V2C ### SUILDING WURKS INCORRECTLY ### SUILDING WURKS INCORRECTLY ### SUILDING MUR WURK WURKS WURK	SUBROUTINE PLOT DOES NOT CORRECTLY REPRODUCT		
### BUILDING MU BASIC/RT-11 UNDER RT-11 V2C  REMOTE TERMINAL SUPPORT ON MODEMS  OVERLAY LINE WORKS INCORRECTLY  03 May 76  OVERLAY LINE WORKS INCORRECTLY  03 May 76  CUCK LOSES TIME DN RT-11 WHEN RUNNING MU BASIC  05 JUL 77  REM STATEMENTS  06 Peb 78  ADDITIONAL FILES ON RELEASE KIT (MUB*.*)  ##################################	### BUILDING MU BASIC/RT-11 UNDER RT-11 V2C ### BEMOTE TERMINAL SUPPORP ON MODEMS ### 92 May 75 WAY 75 OVERLAY LINE WORKS INCORRECTLY ### 93 May 75 USING IMMEDIATE MODE "GOSUBS" ### 94 Dec 75 CLOCK LOSES TIME ON RT-11 WHEN RUNNING MU BASIC ### 95 JUL 77 REM STATEMENTS ### 96 Peb 78 ADDITIONAL FILES ON RELEASE KIT (MUB*.*) ### 97 N May 78 ADDITIONAL FILES ON RELEASE KIT (MUB*.*) ### 97 N May 78 ADDITIONAL FILES ON RELEASE KIT (MUB*.*) ### 97 N May 78 ADDITIONAL FILES ON RELEASE KIT (MUB*.*) ### 97 N May 78 ADDITIONAL FILES ON RELEASE KIT (MUB*.*) ### 97 N MAY 78 ADDITIONAL FILES ON RELEASE KIT (MUB*.*) ### 97 N MAY 78 ADDITIONAL FILES ON RELEASE KIT (MUB*.*) ### 97 N MAY 78 ADDITIONAL FILES ON RELEASE KIT (MUB*.*) ### 97 N MAY 78 ADDITIONAL FILES ON RELEASE KIT (MUB*.*) ### 97 N MAY 78 ADDITIONAL FILES ON RELEASE KIT (MUB*.*) ### 97 N MAY 78 NOBELIA FILES ON RELEASE KIT (MUB*.*) ### 97 N MAY 78 NOBELIA FILES ON RELEASE KIT (MUB*.*) ### 97 N MAY 78 NOBELIA FILES ON REMOTE FIL		Ø1 M	Apr 78
### BUILDING MU BASIC/RT-11 UNDER RT-11 V2C  REMOTE TERMINAL SUPPORT ON MODEMS  OVERLAY LINE WORKS INCORRECTLY  03 May 76  OVERLAY LINE WORKS INCORRECTLY  03 May 76  CUCK LOSES TIME DN RT-11 WHEN RUNNING MU BASIC  05 JUL 77  REM STATEMENTS  06 Feb 78  ADDITIONAL FILES ON RELEASE KIT (MUB*.*)  ##################################	### BUILDING MU BASIC/RT-11 UNDER RT-11 V2C # 1			
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WITH DIAL AND NODDC  PROPER GENERATION OF REMOTE IS DEPENDENT ON MODULE ORDER  ASCII CODES 173 AND 174 DO NOT PRINT  IMPROPER FILLER HANDLING FOR VT05  Aug 76  Aug 76	WITH DIAL AND NODDC  PROPER GENERATION OF REMOTE IS DEPENDENT ON MODULE ORDER 10 M Aug 76 ASCII CODES 173 AND 174 DO NOT PRINT 11 M Aug 76 IMPROPER FILLER HANDLING FOR VT05 12 O Aug 76 SYSTEM CRASHES IF RUN IN FOREGROUND WITHOUT /N 13 O Aug 76 "UNSAVE" COMMAND CAUSES SYSTEM ERRORS 14 M Dec 76 FLET WILL REMOVE MORE THAN ONE USER FROM THE WAIT QUEUE 15 M Dec 76 STACK FOR USER THREE IMPROPERLY SET 16 O Dec 75		Ø9 M	Aug 76
PROPER GENERATION OF REMOTE IS DEPENDENT ON MODULE ORDER 10 M Aug 75 ASCII CODES 173 AND 174 DO NOT PRINT 11 M Aug 76 IMPROPER FILLER HANDLING FOR VT05 12 0 Aug 75	PROPER GENERATION OF REMOTE IS DEPENDENT ON MODULE ORDER 10 M Aug 76 ASCII CODES 173 AND 174 DO NOT PRINT 11 M Aug 76 IMPROPER FILLER HANDLING FOR VT05 12 O Aug 76 SYSTEM CRASHES IF RUN IN FOREGROUND WITHOUT /N 13 O Aug 76 "UNSAVE" COMMAND CAUSES SYSTEM ERRORS 14 M Dec 76 FLET WILL REMOVE MORE THAN ONE USER FROM THE WAIT QUEUE 15 M Dec 76 STACK FOR USER THREE IMPROPERLY SET 16 O Dec 75		Ø9 M	Aug 76
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IMPROPER FILLER HANDLING FOR VT95 12 0 Aug 76	SYSTEM CRASHES IF RUN IN FOREGROUND WITHOUT /N 13 0 Aug 76 "UNSAVE" COMMAND CAUSES SYSTEM ERRORS 14 M Dec 76 FLET WILL REMOVE MORE THAN ONE USER FROM THE WAIT QUEUE 15 M Dec 76 STACK FOR USER THREE IMPROPERLY SET 16 0 Dec 76	ASCII CODES 173 AND 174 DO NOT PRINT		Aug 76
CVOMPY OPERATOR TO POST TO THE TOTAL THE TOTAL TO THE TOTAL THE TOTAL TO THE TOTAL	"UNSAVE" COMMAND CAUSES SYSTEM ERRORS 14 M Dec 76 FLET WILL REMOVE MORE THAN ONE USER FROM THE WAIT QUEUE 15 M Dec 76 STACK FOR USER THREE IMPROPERLY SET 16 0 Dec 76	IMPROPER FILLER HANDLING FOR VTØ5		
	FLET WILL REMOVE MORE THAN ONE USER FROM THE WAIT QUEUE 15 M Dec 76 STACK FOR USER THREE IMPROPERLY SET 16 0 Dec 76			
	STACK FOR USER THREE IMPROPERLY SET 16 0 Dec 75			
STACK FOR USER THREE IMPROPERLY SET 15 0 Dec 75	SECONDARY MODE LOADS DO NOT OPERATE PROPERLY 17 M Jan 77	STACK FOR USER THREE IMPROPERLY SET		Dec 75
SECUNDARY MODE LOADS DO NOT OPERATE PROPERLY 17 M Jan 77		SECUNDARY MODE LOADS DO NOT OPERATE PROPERLY	17 M	Jan 77

Component	Sequence	Mon/Yr
@START COMMAND GIVEN ON TERMINAL WITHOUT SATELLITE CAUSES CRASH "RTSIM" DOES NOT SUPPORT 50 Hz LINE CLOCK CHANNEL ACTIVE ERROR THREE WORDS LOST ON DOWNLINE LOAD CSISPC NOT PROPERLY SIMULATED EXCEEDING CHARACTERS PER LINE LIMIT @RE IN THE SATELLITE DOES NOT WORK "HANG" CONDITIONS	18 O 19 O 20 M 21 M 22 M 23 M 25 R 26 R	Jan 77 Jan 77 Mar 77 Mar 77 May 77 Oct 77 Mar 78 Apr 78
RT-11 V2C		
BATCH /RUN SWITCH IN BATCH COMMAND FAILS BOUNDARY PROBLEM IN BATCH HANDLER	02 03	Nov 76 Jun 77
DOCUMENTATION RT-11 SOFTWARE SUPPORT MANUAL APPENDIX D CORRECTIONS INCOMPLETE PATCH IN THE RT-11 SOFTWARE SUPPORT MANUAL	91 02	Oct 75 Jun 77
RT-11 SYSTEM GENERATION MANUAL REPLACEMENT PAGES INSTRUCTIONS FOR BUILDING DISKETTE SYSTEM INSTRUCTION FOR BUILDING INCORRECT PATCH IN RT-11 SYSTEM GENERATION MANUAL NEW MAGTAPE DRIVES TE10, TE16, AND NEW FORMATTER TM03	01 02 03 04 05	Jul 76 Oct 76 Oct 76 Aug 77 Aug 77
RT-11 SYSTEM MESSAGE MANUAL REPLACEMENT PAGES	Øl	Jul 76
RT-11 SYSTEM REFERENCE MANUAL RT-11 CLARIFICATION INCORRECT MSTAT VALUES CASSETTE AND MAGTAPE ARE NOT LEGAL RT-11 DEVICES UNDER FILEX REPLACEMENT PAGES DOCUMENTATION CORRECTION	01 93 94 05 96	Sep 75 Oct 75 Dec 75 Jul 76 Oct 76
REPLACEMENT PAGES  RT-11 SYSTEM RELEASE NOTES  REPLACEMENT PAGES	07 N 01	Dec 77
EDIT EDIT ERRORS OCCUR WHEN THE FIRST CHARACTER IN THE TEXT BUFFER IS A LINE FEED CHARACTER IS LOST WHEN EXECUTING A READ COMMAND EXTRA TEXT APPENDED TO EDIT OUTPUT	05 06 07	Oct 77 Oct 77 Oct 77
FILEX TRANSFERRING FILES TO DOS FORMAT	<b>Ø</b> 2	Sep 76
HANDLER PATCHING LP VECTOR LP HANGS SYSTEM CORRECTIONS AND ENHANCEMENTS TO THE KB HANDLER AND INSTALLING HANDLERS	Ø2 Ø3	Apr 76 May 75 Sep 76
PROBLEMS WITH RSX-11D TO RT-11 MAGTAPE TRANSFERS ERRORS IN KB.MAC CAPS-11 CASSETTE FILE HEADERS DIFFER FROM RT-11	05 06	Sep 76 Jan 77
CASSETTE FILE HEADERS READ FROM TT: AFTER A CTRL-Z, SOMETIMES PRINTS INCORRECTLY MAGTAPE OPERATIONS	97 98 09	Nov 77 Dec 77 Feb 78
LINK PERFORMANCE IMPROVEMENT IN LINKER FORTRAN "BLOCK DATA" INITIALIZATIONS ARE INCORRECT	<b>Ø1</b>	Jul 76
WHEN LINKED TO A FORTRAN PROGRAM FROM A LIBRARY	<b>Ø</b> 2	Oct 76

Component	Sequence	Mon/Yr
MONITOR ERROR IN F/B FIS EXCEPTION ERROR MIDNIGHT ROLLOVER FOR R/B MONITOR MALFUNCTIONS RETRACTED ARTICLE	13 17 19 20	Mar 76 Apr 76 May 76 XXX XX
GARBAGE OUTPUT TO TERMINAL ON BOOTING DEVICE HANDLERS HAVE A MINIMUM SIZE AND POSITION REQUIREMENT	21 22	Sep 76 Sep 76
LISTINGS SENT TO CONSOLE HANG MONITOR WHEN "GTON" IS ACTIVE S/J MONITOR NOT RESPONDING TO CTRL/C AFTER 81 CHAR-	23	Feb 77
ACTERS ENTERED AT KEYBOARD CODING ERROR IN READ/WRITE ROUTINE CAUSES TRANSFER	24	Feb 77
MANFUNCTION ERRORS OCCUR WHEN SAVING OR EXAMINING PROGRAMS THAT	25	Jun 77
OVERLAY KMON BOOTING AN RK06 SYSTEM	26 27	Aug 77 Oct 77
MESSAGE CHANNEL IS NOT RESET AFTER TASK TERMINATION RESTART LOCATIONS ARE CLEARED WHEN UNLOADING	23	Nov 77
CERTAIN HANDLERS READ FROM TT: AFTER A CRTL-Z, SOMETIMES PRINTS	29	Nov 77
INCORRECTLY CORRECTIONS MADE TO READ/WRITE PROGRAMMED	30	Dec 77
REQUESTS ROUTINES ERROR IN TTYOUT INTERRUPT SERVICE ROUTINE	30a 31 M	Feb 78 Jan 78
INCORRECT IDENTIFIER IN .TWAIT VOLUME DIRECTORY CORRUPTION	32 33 M	Feb 78 Apr 78
PATCHO ERR 61 MESSAGE FROM PATCHO	Ø 2	May 76
PIP CODING ERROR IN PIP CREATES OVERSIZED FILES	01 M	Jan 78
SYSLIB CALL TO ILUN FUNCTION APPEARS TO LOSE A CHANNEL ERROR IN THE CONCAT ROUTINE	01 02 M	Jan 77 Jun 78
SYSTEM INFORMATION LOW SPEED READER SUPPORT	01	Apr 74
RT-11 V3		
DOCUMENTATION TYPOGRAPHICAL ERRORS	01 N	Mar 78
EDIT DOES NOT OPERATE CORRECTLY UNDER XM MONITOR	<b>91</b> M	Mar 78
MACRO .NARG FAILS WHEN AUTOMATIC LABEL GENERATION IS USED	Ø1 M	Apr 78
MISCELLANEOUS GETSTR AND PUTSTR ROUTINES FOR IN-LINE CODE	01 M	Jun 78
ERROR IN THE CONCAT ROUTINE	Ø2 M	Jun 73
MONITOR INCORRECT IDENTIFIER IN .TWAIT REQUEST CAUSES PROBLEMS .CHAIN, .EXIT FROM VIRTUAL JOB; USR MOVING INTO	01 M	Mar 78
PAR1 AREA PATCH TO INTERRUPT EXIT ROUTINE	02 M 03 M	Apr 78 Apr 78
IMPROPER HANDLING OF THE KW11-P CLOCK SPECIFYING 50-CYCLE CLOCK SUPPORT DURING SYSGEN	Ø4 M	May 78
OPERATIONS EDITORS AND V3B MONITORS	05 M 06 M	Jun 78 Jun 78
TYPING NON-ASCII FILES TO CONSOLE AFTER ISSUING A GTON HANGS THE SYSTEM	Ø7 M	Jun 73

Component	Sequence	Mon/Yr
UTILITIES  DUP DEFAULT FILE SIZE AND NULL FILE TYPES ARE INCORRECT DIR MAY INCORRECTLY LIST DIRECTORIES OF MAGTAPES /L OPTION TO PIP MAY CUASE SYSTEM CRASH LINK OUTPUT INVALID IF OBJ HAS AN EMPTY GSD RECORD PAT GIVES FATAL ERROR IF OBJ HAS AN EMPTY RECORD EDIT VT11 DISPLAY FUNCTIONS WILL NOT OPERATE UNDER XM MONITOR TRANSFERS IN INTERCHANGE FORMAT WHEN NO SYSTEM DATE IS GIVEN DUP SCAN RATE FOR FLOPPY DUP /I AND /W SWITCHES DO NOT WORK PROPERLY	01 M 02 M 03 M 04 M 05 M 07 M/R 08 M 09 M 10 M	Mar 78 Mar 78 Mar 78 Mar 78 Apr 78 Apr 78 Jun 78 Jun 78 Jun 78
RT-11/2780 V2		
CORRECTIONS TO 2780 PACKAGE RUNNING 2780 ON RT-11 V3 PATCHING THE 2780 IN RT-11 V3	01 02 93 M	Sep 77 Nov 77 Jun 78

# **DIBILIED**Software Product Description

PRODUCT NAME: DECnet-RT, Version 1.0

SPD 10.72.1

#### **DESCRIPTION:**

DECnet-RT, Version 1.0, allows a suitably configured RT-11 system to participate as a Phase II DECnet node in point-to-point computer networks. DECnet-RT offers task-to-task communications, network file transfer and network resource-sharing capabilities, using the DIGITAL Network Architecture (DNA) protocols. DECnet-RT communicates with adjacent nodes over synchronous and asynchronous communication lines, and parallel interfaces. Access to DECnet-RT is supported for RT-11 user programs written in MA-CRO-11 and FORTRAN.

DECnet-RT is a Phase II network product and is warranted for use only with Phase II DECnet products supplied by DIGITAL.

The functionality available to an RT-11 user depends, in part, on the configuration of the rest of the network. Each DECnet product offers its own level of functionality and its own set of features to the user. Networks consisting entirely of DECnet-RT (a two node network because DECnet-RT supports one communication line) nodes have the full functionality described in this SPD. Networks that mix DECnet-RT nodes with other DECnet products may limit the functions available to the DECnet-RT user because some DECnet-RT features may not be supported by all DECnet products.

The Phase II products and functions available to users on mixed networks can be determined by comparison of the SPDs for the component products. An overview of DECnet and common functionality available with mixed networks can be obtained from the General Phase II DECnet SPD (10.78).

#### Task-to-Task Communication

Using DECnet-RT, an RT-11 user program written in MACRO-11 or FORTRAN can exchange messages with other programs using Phase II DECnet DNA protocols. The two user programs must be adjacent DECnet nodes. (Adjacent nodes control opposite ends of a point-to-point communication line.) If on adjacent nodes, the second node can be any Phase II DECnet System that supports synchronous or asynchronous communication lines.

#### Network File Transfer Utilities

Using DECnet-RT utilities, a user can transfer sequen-

tial ASCII files between Phase II DECnet nodes. Files can be transferred in both directions between locally supported RT-11 File System device and the file system of an adjacent DECnet node.

In addition, other types of files may be transferred where formats between the Phase II DECnet nodes are compatible.

Additional facilities allow system command files or batch files to be submitted to a remote node where the list of commands must be in the format expected by the node responsible for the execution. DECnet-RT does not support system command or batch files to be submitted from other systems.

#### Network Resource Access

#### File Access

File access is supported to and from remote DECnet systems by explicit subroutine calls in FORTRAN and MACRO tasks.

READ, WRITE, OPEN and CLOSE, and DELETE operations can be initiated by local FORTRAN and MACRO tasks for sequential files residing at remote DECnet systems. Other nodes supporting File Access can exercise this capability for files located on the RT-11 node. Fixed and variable length record formats are supported. Further, files accessed remotely can contain either ASCII or binary information.

#### Network Information Program

Using the DECnet-RT NIP utility, a user can set node name and password, and display statistics related to the communication lines, including data on traffic and errors. Output can be directed to the terminal or to a log file.

#### Terminal Communication Utility

The DECnet-RT TLK utility allows a user at a DECnet-RT node to send messages to adjacent DECnet nodes that support the same feature. Messages can be directed to a specific terminal or to the operator's console at the destination node. TLK dialogue mode allows users on the two systems to type messages to one another.

#### Communications

 DECnet-RT Version 1.0 supports the DIGITAL Data Communications Message Protocol (DDCMP) for full or half-duplex transmission in point-to-point operation using serial synchronous or asynchronous facilities. DDCMP provides error detec-

AE-D431A-TC

tion/correction and physical link management facilities.

 one point-to-point link can be supported by a RT-11 node. Only one link may connect any pair of nodes

#### **DECnet-RT Operation**

DECnet-RT is implemented as a driver under RT-11 FB/XM and subroutines that would be linked with the Foreground or Background RT-11 program. Minimum memory residency requirements for a driver and network code are 7K words (14K bytes), and at least 1K words (2K bytes) for temporary data storage. Consequently, the user should plan to dedicate at least 8K (16 bytes) words of memory storage to network control functions. Additional memory will be required for a user written network task or any DECnet utility functions to be invoked (file transfer, TLK).

#### **DECnet-RT Configuration**

The process of configuring a DECnet-RT node is based primarily on trade-offs of cost, performance, and functionality, within the realm of satisfying the user's application requirements. It can be readily expected that network applications will run the full gamut from low-speed, low-cost situations to those of relatively high performance and functionality. The performance of a given DECnet node is a function not only of the expected network traffic and resultant processing ("global" conditions), but also of the amount of concurrent processing peculiar to that node ("local" conditions). Thus, node performance depends on many factors, including:

- CPU power
- number of device interrupts per unit time
- · communication line characteristics
- number and size of buffers
- · message size and frequency
- · "local" applications

It is important to note that the rate at which user data may be shipped ("throughput") over a communications line may sometimes approach, but will never equal or exceed, the actual line speed; the same may be said for multiple lines as well. The reason, simply stated, is that the actual throughput is a function of many factors, including the user application(s), network topology, protocol overhead, and the factors cited at the beginning of this section.

There are basically two groups of communications interfaces presented in the tables below. They differ in many respects, particularly in their effect upon CPU utilization.

- The DMC11 is a direct memory access (DMA) device. Also the DDCMP line protocol is executed in microcode by the DMC11 communication controller, thus off-loading the PDP-11. Thus, the only DECnet load the processor sees is completed incoming and outgoing messages.
- With character interrupt devices such as the DUP11, CPU cycles are required for not only the DDCMP processing, but also each character sent and received.

The following tables describe what physical hardware configurations are supported by DECnet-RT in terms of CPU class and communication interface. It should be noted that the attachment of such devices as A/D converters and multiple terminals may reduce the line speed which can effectively be supported.

#### **DECnet-RT**

#### Maximum Line Configurations On 11/03 CPUs

Device Group	Max. No. of Lines	Maximum Linespeed (Kilobits/sec)	Maximum Mode Device Bandwidth (Kilobits/sec)
DUV11, DLV11-E	1	2.4	2.4 FDX,HDX

#### DECnet-RT

#### Maximum Line Configurations On 11/04-11/70 CPUs

Device Group	Max. No. of Lines	Maximum Linespeed (Kilobits/sec)	Maximum Device Bandwidth (Kilobits/sec	Mode
DL11				
DU11, DUP11	1	9.6*	9.6*	FDX, HDX
DMC11-AR, -DA	1	19.2	19.2	FDX, HDX
DMC11-AL, -MD	1	56.0	56.0	FDX, HDX
DMC11-AL, -MA	1	1000.0	1000.0	FDX, HDX

<sup>\*</sup> restricted to maximum of 4.8 on PDP-11/10 or 11/04

In order to achieve a viable configuration, the user and/or a DIGITAL software specialist must perform a level of application analysis which addresses the factors above. In the preceding tables, the columns have the following meanings:

#### Maximum Number of Lines

The largest number of physical lines which can be attached and driven by the DECnet-RT system.

#### Maximum Device Bandwidth

The maximum total number of bits per second which can be handled by a CPU for a given communication device. For example, DECnet-RT on a PDP-11/04 can accomodate one full-duplex character-interrupt device at 4.8KB.

#### Maximum Line Speed

The fastest clock rate at which the device can be driven under DECnet-RT. This means that even if specific devices have the ability to operate at a maximum rate, they must be configured subject to the "maximum device bandwidth" restriction above.

#### Mode

This indicates whether the line is operating in either half-duplex (a single-bit stream) or full-duplex (two concurrent bit streams) mode. In some instances in the tables, a half-duplex line is quoted as having maximum bandwidth approximately double that of the comparable full-duplex line. This reflects the single bit stream character of half-duplex lines, and the fact that two of them place a load on the CPU roughly

equivalent to one full-duplex line with traffic in both directions.

#### **MINIMUM HARDWARE REQUIRED:**

Any valid RT-11 FB/XM system configuration with:

- a minimum of 8K words (16K bytes) additional available memory for the DECnet-RT software and data storage
- PDP-11/04 through PDP-11/70 central processor with one or more of the following communications devices:
  - DU11-DA low speed synchronous interface
  - DUP11-DA low speed synchronous interface
  - DMC11-AR-DA high speed synchronous EIA interface
  - DMC11-AL-MD high speed local synchronous interface
  - DMC11-AL-MA high speed local synchronous interface
  - DL11-E asynchronous interface with modem control
  - DL11-C asynchronous interface, 20mA current loop (1)
  - DL11-WAasynchronous interface,20mA current loop (1)

PDP-11/03 central processor with one of the following communications devices:

- DUV11-DA low speed synchronous interface
- DLV11-E asynchronous interface with modem control

NOTE:

(1) Requires either the H319 option for optical isolation or one side of the 20mA line to be in passive mode.

#### **OPTIONAL HARDWARE:**

None

#### PREREQUISITE SOFTWARE:

RT-11 FB/XM operating system, Version 3.0

#### **OPTIONAL SOFTWARE:**

None

#### **TRAINING CREDITS:**

None

#### **SUPPORT CATEGORY:**

A — Software Support will be provided as stated in the Software Support Categories Addendum to this SPD.

Installation under Category A support will convert the RT-11 system into a node with connection potential to a DECnet Phase II network. This installation does not include a demonstration of network connection.

The Customer may purchase DECnet-RT licenses with options that do not include support services. The category of support applicable to such software is Category C. When a DECnet-RT product option that does not include support services is connected to a DECnet network, the category of support applicable to all DECnet products in that network is Category C.

#### **CUSTOMER RESPONSIBILITIES:**

Before installation of the Software, the Customer must:

- 1. Install or have installed all hardware, including terminals, to be used on the system.
- Make available to DIGITAL personnel all hardware, including terminals, to be used during installation for a reasonable period of time each day, as mutually agreed upon by DIGITAL and the Customer, until installation is complete.

Delays caused by any failure to meet these responsibilities will be charged at the then prevailing rate for time and materials.

#### PREREQUISITE SUPPORT:

A Network Profile and DECnet Customer Support Plan are required to be jointly prepared by the customer and DIGITAL covering all intended network nodes and their support.

#### **UPDATE POLICY:**

Software Updates, if any, released by DIGITAL during the one (1) year period following installation, will be provided to the customer for a media charge (includes no installation). After the first year, updates, if any, will be made available according to then prevailing DIGITAL policies.

#### ORDERING INFORMATION:

All binary licensed software, including any subsequent updates, is furnished under the licensing provisions of DIGITAL's Standard Terms and Conditions of Sale, which provide in part that the software and any part thereof may be used on only the single CPU on which the software is first installed, and may be copied, in whole or in part (with the proper inclusion of the DIGITAL copyright notice and any DIGITAL proprietary notices on the software) only for use on such CPU. All source licensed software is furnished only under the terms and conditions of a separate Software Program Sources Agreement between Purchaser and DIGITAL.

Standard options with no support services are only available after the purchase of one supported license. When a software license is ordered without support services, the category of support applicable to such software is Category C.

A single-use license only option is a license to copy the software previously obtained under license, and use such software in accordance with DIGITAL's Standard Terms and Conditions of Sale. The category of support applicable to such copied software is Category C.

Source and/or listing options are only available after the purchase of at least one binary license and after a source license agreement is in effect. -4-

The following key (D, E, F, R, T, Y, Z) represents the distribution media for the product and must be specified at the end of the order number, e.g., QJ685-AD = binaries on 9-track magnetic tape.

D = 9-track Magnetic Tape
E = RK05 Disk Cartridge
F = 7-track Magnetic Tape
R = Microfiche

T = RK06 Disk Cartridge Y = Floppy Diskette

Z = No hardware dependency

#### Standard Options

QJ685 -A— Single-use license, binaries, documentation, support services (media: D, E, F,

QJ685 -C— Single-use license, binaries, documentation, no support services (media: D, E, F, T, Y)

QJ685 -D— Single-use license only, no binaries, no documentation, no support services (media: Z)

#### Source/Listing Options

QJ685 -E-- All sources (media: D, E, F, T, Y)

QJ685 -F- Listings (media: R)

Miscellaneous Options

QJ685 -G- Pre-delivery kit (media: Z)

#### **ADDITIONAL SERVICES:**

QS680 -S— DECnet Level I Services (media: Z)

Level II services are also available. Consult the DECnet Phase II Products SPD (10.78) for a description of Level I and Level II services.

#### ADDENDUM SOFTWARE SUPPORT CATEGORIES

Each software product (hereinafter 'SOFTWARE') with a designated Support Category A or B in the applicable Software Product Description (SPD) existing at the time of order will be the current release at the time of delivery and will conform to the SPD. DIGITAL's sole obligation shall be to correct defects (nonconformance of the SOFTWARE to the SPD) as described below. Any SOFTWARE with a designated Support Category C will be furnished on an 'as is' basis.

For SOFTWARE with a designated Support Category A or B, DIGITAL will provide the services set forth below without additional charge.

#### CATEGORY A

- 1. Upon notification by customer to the nearest DIGITAL office that the computer system, including all required prerequisite hardware and software, is ready for the installation of the SOFTWARE, DIGITAL will install such SOFTWARE in any location within the contiguous forty-eight (48) United States, the District of Columbia, or a country in which DIGITAL or a subsidiary of DIGITAL has a software service facility. The notification must be received by DIGITAL and the system must be ready for installation within thirty (30) days after the delivery of the SOFTWARE to customer or DIGITAL will have no obligation to install. Installation will consist of: (1) verification that all components of the SOFTWARE have been received by customer, (2) loading the SOFTWARE, and (3) executing a DIGITAL sample procedure.
- 2. During the ninety (90) day period after installation, if the customer encounters a problem with the current unaltered release of the SOFTWARE which DIGITAL determines to be a defect in the SOFTWARE, DIGITAL will provide the following remedial service (on site where necessary): (1) if the SOFTWARE is inoperable, apply a temporary correction (TC) or make a reasonable attempt to develop an emergency by-pass, and (2) assist the customer to prepare a Software Performance Report (SPR) and submit it to DIGITAL.
- 3. During the one (1) year period following installation, if the customer encounters a problem with the SOFTWARE which his diagnosis indicates is caused by a SOFTWARE defect, the customer may submit an SPR to DIGITAL. DIGITAL will respond to problems reported in SPRs which are caused by defects in the current unaltered release of the SOFTWARE via the Maintenance Periodical for the SOFTWARE, which reports SPRs received, code corrections, temporary corrections, generally useful emergency by-passes and/or notice of the availability of corrected code. Software Updates, if any, released by DIGITAL during the one (1) year period, will be provided to the customer on DIGITAL's standard distribution media as specified in the applicable SPD. The customer will be charged only for the media on which such updates are provided, unless otherwise stated in the applicable SPD, at DIGITAL's then current media prices.

#### CATEGORY B

During the one (1) year period following delivery, the services provided to the customer will be the same as set forth in 3 above. CATEGORY C

SOFTWARE is provided on an 'as is' basis. Any software services, if available, will be provided at the then current charges.

DIGITAL shall have the right to make additional charges for any additional effort required to provide services resulting from customer use of other than current unaltered release of the SOFTWARE operated in accordance with the SPD.

# digital Software Product Description

PRODUCT NAME: DECnet Phase II Products, Version 1

SPD 10.78.0

#### **DESCRIPTION:**

DECnet Phase II is the collective name for the set of software products that extend various DIGITAL operating systems by enabling the user to interconnect these systems with each other to form computer networks. The DECnet Phase II products include DECnet-11M Version 2, DECnet-11S Version 2, DECnet-11D Version 2, DECnet-IAS Version 2, DECnet/E Version 1, and DECnet-RT Version 1. The DECnet user can configure a variety of networks, to satisfy a variety of applications, by choosing the appropriate CPU's, line interface (and speeds), and operating system software.

In order to satisfy these widely varying applications, DECnet allows the user to build networks from a range of systems and communications components. DECnet allows users to interconnect systems using serial asynchronous, serial synchronous, and parallel facilities. When configuring DECnet systems, both ends of any given link must use the same type of communications discipline (e.g., synchronous, asynchronous or parallel) running at the same line speed.

#### DIGITAL Network Architecture:

DECnet includes a set of network protocols, each of which is designed to fulfill specific functions within the network. Collectively, these protocols are known as the DIGITAL Network Architecture, or DNA. The major protocols, and their functions, are:

DIGITAL Data Communications Message Protocol (DDCMP) — DDMCP handles the physical link traffic control and physical link error recovery within DECnet. DDCMP operates over both full and half duplex facilities, using serial synchronous or serial asynchronous facilities in a point-to-point mode. DDCMP has the following important characteristics:

- operates over a wide variety of hardware types
- makes efficient use of full-duplex channel capacity
- allows transmission of all data types (including binary) with low overhead
- allows standard (character-oriented) communications hardware to be used
- uses CRC-16 for error detection, with recovery by retransmission
- effective on earth/satellite links (or other links) with long signal propagation delays

A full specification for DDCMP Version 4.0 is available on request. DIGITAL does not regard DDCMP as a

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proprietary protocol, and allows others to implement and use the protocol, providing an acknowledgment of the source is made in any public documentation.

Network Services Protocol (NSP) — NSP handles network management functions within DECnet. This includes sending messages between two nodes and routing messages within any given node. NSP makes it possible for two programs on different machines to establish a logical communications channel (or logical link) between the programs, and to exchange data using this logical link. These programs need not be aware of either the nature of the physical link (full/half duplex, parallel or serial) or the nature of the protocols supporting the physical link. NSP has the following important characteristics:

- · dynamic creation of logical links between tasks
- exchange of data between tasks on a solicited basis
- exchange of data between tasks on a non-solicited (e.g., interrupt) basis
- nodes can be dynamically connected within the network once NSP initialization occurs over a previously established physical link

A full specification for the Network Services Protocol Version 3.0 is available on request. NSP is not a proprietary protocol.

Data Access Protocol (DAP) — The Data Access Protocol enables programs on one node of the network to use the I/O services available on other network nodes. Each operating system in DECnet provides facilities for translating its own unique I/O calls into the DAP standard, and vice versa. Thus, DAP enables data requests to be processed in a meaningful way by many (possibly heterogenous) operating systems. DAP's facilities include:

 remote file access, including OPEN, READ, WRITE, CLOSE and DELETE for sequential and random access files, and command files

It should be noted that each DAP function requires support at both ends of the link. At the local node, where the user program initiates a data request, the DAP support must package the request for transmission through the network. At the remote node (where the device or file resides), the DAP support must cause the appropriate actions to be performed. Not all systems support both local and remote portions of each DAP operation.

A full specification for the Data Access Protocol Ver-

AE-D440A-TC

sion 4.1 is available on request. DAP is not a proprietary protocol.

#### DECnet Functions:

Digital Network Architecture, implemented across a wide range of operating systems and hardware configurations, enables users to build a variety of networks. While such networks have a common attribute, individual systems in the network may have certain system-specific attributes. The common attribute is:

 Task-to-task communication: Programs or tasks on one system can create logical links and exchange data with programs or tasks on other systems in a real-time fashion.

Additionally, many DECnet systems support other features which are useful in network environment. These include:

- Inter-system File Transfer: This facility allows an entire data file to be moved between systems, at either program or operator request. The common file type supported across systems that provide this functionality is sequential ASCII.
- Batch/Command File Submission: Local users can submit batch or command files to remote systems for execution.
- Batch/Command File Execution: Remote users can cause a batch or command file which resides at a remote node to be submitted for execution at the local node.
- Remote File Access: Tasks or programs can access sequential files on a record-by-record basis from files located on remote nodes.
- Down-line System Loading: Initial memory images for DECnet-11S systems in the network can be stored on the local system, and loaded on request into other systems in the network. Remote systems usually require the presence of a network bootstrap loader, implemented in read-only memory.
- Down-line Task Loading: Programs to be executed on DECnet-11S systems in the network can be stored on the local system, and loaded on request into the DECnet-11S system, under the joint control of the operating systems at both ends of the physical link. This and the preceding feature simplify the operation of network systems which do not have mass storage devices.

Table I provides the information for determining if the preceding functions are available on a particular DECnet system. Note that the above descriptions define the minimum capabilities provided by a given function. Additional capabilities, above those described as the minimum for a function, may be available between two of the same or different DECnet systems.

#### Configuring DECnet Networks:

DECnet provides a basic level of interconnection between specific products. However, each DECnet system has its own level of functions. The user can recognize specific constraints when configuring a network of heterogeneous DECnet systems. Table II lists the communication interfaces supported by each DECnet Phase II product for particular class of line

characteristics (e.g., 9.6 kilobits/second, synchronous). Each column lists the connections that are permissible for those line characteristics in cross-product network configurations. Individual product SPD's must be consulted to determine whether any particular configuration violates the maximum number of communications interfaces and line speeds for an individual product.

#### **TRAINING CREDITS:**

No training credits are included with a DECnet software license. Training courses on DECnet software are scheduled at regular intervals in DIGITAL's Training Centers. Arrangements should be made directly with DIGITAL's Educational Services Department.

#### SUPPORT CATEGORY:

Category A Software Support, as described in the Software Support Categories Addendum to this SPD, will be provided with DECnet Phase II product options that include support services.

The installation of DECnet software under Category A Support Services in any host system will convert that system to a node with the potential of being connected to a DECnet network. Category A installation does not include demonstration of network connection.

The Customer may purchase DECnet Phase II product license options that do not include support services. The category of support applicable to such software is Category C. When a DECnet product option that does not include support services is connected to a DECnet network, the category of support applicable to all DECnet products in that network is Category C.

#### **INSTALLATION SERVICE:**

The installation of the Software under Category A Software Support shall consist of:

- Verifying that the software kit contains all software modules and manuals offered.
- 2. Generating the DECnet software.
- 3. Demonstrating the use of the majority of operator commands and system utilities.
- 4. Running a sample DIGITAL-supplied program.
- Introducing the Customer to the sources of software information and services.

Before installation of the Software, the Customer must:

- 1. Install or have installed all hardware, including terminals, to be used on the system.
- Make available to DIGITAL personnel all hardware, including terminals, to be used during installation for a reasonable period of time each day, as mutually agreed upon by DIGITAL and the Customer, until installation is complete.

Delays caused by any failure to meet these responsibilities will be charged at the then prevailing rate for time and materials.

#### PREREQUISITE SUPPORT:

A Network Profile and DECnet Support Plan covering all intended network nodes and their support must be

-3-

prepared jointly by the Customer and DIGITAL.

#### ORDERING INFORMATION:

All binary licensed software, including any subsequent updates, is furnished under the licensing provisions of DIGITAL's Standard Terms and Conditions of Sale, which provide in part that the software and any part thereof may be used on only the single CPU on which the software is first installed, and may be copied, in whole or in part (with the proper inclusion of the DIGITAL copyright notice and any DIGITAL proprietary notices on the software) only for use on such CPU. All source licensed software is furnished only under the terms and conditions of a separate Software Program Sources Agreement between Purchaser and DIGITAL.

When multiple systems are connected in a single network, each individual system must be licensed separately with regard to both operating system and DECnet software.

#### **ADDITIONAL SERVICES:**

Software Consulting Services are offered on a time and materials basis to meet specific customer needs. Two levels of consulting services are available:

Level I Services

QS680 -S— DECnet Level I Services (media: Z)

Level I services provide for the integration of DECnet nodes that carry Category A support into an interconnected network, with verification of network integrity and demonstration of DECnet functions. Level I services use DIGITAL sample procedures only.

Before installation of the Network, the Customer must:

- Obtain, install, and demonstrate operational to DIGITAL's satisfaction any modems and other equipment and facilities necessary to interface DIGITAL's communications line interfaces and terminals.
- Make available to DIGITAL's personnel all hardware, including communications facilities and terminals, to be used during installation for a reasonable period of time each day, as mutually agreed upon by DIGITAL and the Customer.

Delays caused by any failure to meet these responsibilities will be charged at the then prevailing rate for time and materials.

Level II Services

QS912 -S— Daily Software Consulting Services (media: Z)

QS926 -S— Weekly Software Consulting Services (media: Z)

QS922 -S— 6-Month Resident Software Consulting Services (media: Z)

QS924 -S— 12-Month Resident Software Consulting Services (media: Z)

Level II services provide for additional support as mutually agreed upon by DIGITAL and the Customer in the DECnet Customer Support Plan.

Table I

	DECnet-11M Version 2.0	DECnet-11S Version 2.0	DECnet-11D Version 2.0	DECnet-IAS Version 2.0	DECnet/E Version 1.0	DECnet-RT Version 1.0
Task-to-Task	YES	YES	YES	YES	YES	YES
Intersystem File Transfer	YES	NO	YES	YES	YES	YES
Command/Batch File Submission	YES <sup>1</sup>	NO	YES <sup>1</sup>	YES <sup>1</sup>	YES	YES
Command/Batch File Execution	YES	NO	YES	YES	YES	NO
Remote File Access	YES	YES <sup>2</sup>	YES	YES	NO	YES
Down-Line System Loading	YES	NO	YES	YES	NO	NO
Down-Line	YES	NO	YES	YES	NO	NO

<sup>1</sup> ask Loading
1 Cannot submit files to DECnet/E systems.

<sup>&</sup>lt;sup>2</sup>Offers local users network access to remote file systems. Does not allow users on remote systems to access local files.

#### Table II

	EIA Sync <9.6K bits/se	EIA Sync c <19.2K bits/s	EIA Async ec<9.6K bits/se	20ma Async ec <9.6 bits/sec	Local Sync 56K bits/sec	Local Sync 1M bits/sec	Local Parallel
DECnet-11M Version 2.0	DP11 DU11-DA DUP11-DA DV11	DQ11-DA DMC11-AR DMC11-DA	DL11-E DZ11-A DZ11-B	DL11-C DL11-WA DZ11-C DZ11-D	DMC11-AL DMC11-MD	DMC11-AL DMC11-MA	DA11
DECnet-11S Version 2.0	DP11 DU11-DA DUP11-DA DV11 DUV11-DA	DQ11-DA DMC11-AR DMC11-DA	DL11-E DZ11-A DZ11-B	DL11-C DL11-WA DZ11-C DZ11-D	DMC11-AL DMC11-MD	DMC11-AL DMC11-MA	DA11
DECnet-11D Version 2.0	DP11 DU11-DA DUP11-DA DV11	DQ11-DA DMC11-AR DMC11-DA	DL11-E DZ11-A DZ11-B	DL11-C DL11-WA DZ11-C DZ11-D	DMC11-AL DMC11-MD	DMC11-AL DMC11-MA	DA11
DECnet-IAS Version 2.0	DP11 DU11-DA DUP11-DA DV11	DQ11-DA DMC11-AR DMC11-DA	DL11-E DZ11-A DZ11-B	DL11-C DL11-WA DZ11-C DZ11-D	DMC11-AL DMC11-MD	DMC11-AL DMC11-MA	DA11
DECnet-RT Version 1.0	DU11-DA DUP11-DA DUV11-DA	DMC11-AR DMC11-DA	DL11-E	DL11-C DL11-WA	DMC11-AL DMC11-MD	DMC11-AL DMC11-MA	
DECnet/E Version 1.0		DMC11-DA DMC11-AR			DMC11-AL DMC11-MD	DMC11-AL DMC11-MA	

#### ADDENDUM SOFTWARE SUPPORT CATEGORIES

Each software product (hereinafter 'SOFTWARE') with a designated Support Category A or B in the applicable Software Product Description (SPD) existing at the time of order will be the current release at the time of delivery and will conform to the SPD. DIGITAL's sole obligation shall be to correct defects (nonconformance of the SOFTWARE to the SPD) as described below. Any SOFTWARE with a designated Support Category C will be furnished on an 'as is' basis.

For SOFTWARE with a designated Support Category A or B, DIGITAL will provide the services set forth below without additional charge.

#### CATEGORY A

- 1. Upon notification by customer to the nearest DIGITAL office that the computer system, including all required prerequisite hardware and software, is ready for the installation of the SOFTWARE, DIGITAL will install such SOFTWARE in any location within the contiguous forty-eight (48) United States, the District of Columbia, or a country in which DIGITAL or a subsidiary of DIGITAL has a software service facility. The notification must be received by DIGITAL and the system must be ready for installation within thirty (30) days after the delivery of the SOFTWARE to customer or DIGITAL will have no obligation to install. Installation will consist of: (1) verification that all components of the SOFTWARE have been received by customer, (2) loading the SOFTWARE, and (3) executing a DIGITAL sample procedure.
- 2. During the ninety (90) day period after installation, if the customer encounters a problem with the current unaltered release of the SOFTWARE which DIGITAL determines to be a defect in the SOFTWARE, DIGITAL will provide the following remedial service (on site where necessary): (1) if the SOFTWARE is inoperable, apply a temporary correction (TC) or make a reasonable attempt to develop an emergency by-pass, and (2) assist the customer to prepare a Software Performance Report (SPR) and submit it to DIGITAL.
- 3. During the one (1) year period following installation, if the customer encounters a problem with the SOFTWARE which his diagnosis indicates is caused by a SOFTWARE defect, the customer may submit an SPR to DIGITAL. DIGITAL will respond to problems reported in SPRs which are caused by defects in the current unaltered release of the SOFTWARE via the Maintenance Periodical for the SOFTWARE, which reports SPRs received, code corrections, temporary corrections, generally useful emergency by-passes and/or notice of the availability of corrected code. Software Updates, if any, released by DIGITAL during the one (1) year period, will be provided to the customer on DIGITAL's standard distribution media as specified in the applicable SPD. The customer will be charged only for the media on which such updates are provided, unless otherwise stated in the applicable SPD, at DIGITAL's then current media prices.

During the one (1) year period following delivery, the services provided to the customer will be the same as set forth in 3 above.

SOFTWARE is provided on an 'as is' basis. Any software services, if available, will be provided at the then current charges.

DIGITAL shall have the right to make additional charges for any additional effort required to provide services resulting from customer use of other than current unaltered release of the SOFTWARE operated in accordance with the SPD.



#### **DECUS SPECIAL INTEREST GROUPS**

A DECUS Special Interest Group (SIG) is an activity whereby members of the DIGITAL Equipment Computer Users Society who share common interests in a particular field, join together to promote the interchange of information. Specialization may be in application areas such as education or industry, specific software systems such as OS/8 and RSX-11, or a specific mainframe such as the DECsystem-10/20.

SIG members derive numerous benefits from communicating with others who share specialized interests and who may wish to share their experiences. SIG s sponsor business meetings, tutorials, and workshops at the various chapter symposia which fulfill the two-fold purpose of fostering communication among users and between users and DIGITAL. Channeled communication provides DIGITAL and the users with insight into the direction of future developments. SIG s provide direct feedback to DIGITAL's in-house activities and have thereby made substantial contributions to OS/8, RSX-11, RSTS and TOPS-10.

User submitted articles, minutes of local meetings, and letters comprise the major portion of the individual SIG newsletters. Suggestions, hints, bug fixes, program plans, or questions of a non-commercial nature are suitable material for SIG newsletters.

SIG members are encouraged to make presentations at the SIG sessions held during DECUS Symposia.

The semi-annual U.S. Symposia sessions are organized by special interest areas. Submissions received from the user community are reviewed by symposia committee members from the special interest groups for appropriate placement on the agenda.

Special Interest Group participation in the review of programs submitted to the DECUS Program Library provides an opportunity to improve the quality and utility of programs available to you and to fellow users.

DIGITAL standards are issued to DECUS members for review and on the theory and philosophy of the standards. DECUS is a voting member of ANSI X3. Users are encouraged to register their areas of expertise with DECUS and assist with reviewing standards. SIG s often play a role in this process.

Below is a list of U.S. based Special Interest Groups within DECUS.

If you would like information regarding membership in any of the Special Interest Groups, contact DECUS U.S. Chapter, 129 Parker Street, PK3-1/E55, Maynard, Massachusetts 01754 or one of the other DECUS Chapter offices in Kanata, Sidney or Geneva.

MCPU SIG - Multi-CPU Special Interest Group **NETSIG - Networks Special Interest Group** Biomed SIG - Biomedical Special Interest Group RSTS SIG - RSTS and RSTS/E Special Interest Group SIGIG - Special Interest Group on Interactive Graphics ESIG - Engineering Applications Special Interest Group SIG-18 - 18-Bit Users Special Interest Group 12-Bit SIG - 12-Bit User Special Interest Group **RSX-11/IAS SIG** RT-11 SIG **EDUSIG** - Educational Users Special Interest Group **DEBUG - Digital Equipment Business Users Group MUSIG - Mumps Special Interest Group PASCAL SIG DBMS SIG** TECO SIG SIGIL - Special Interest Group on Implementation Languages LSI-11 SIG **FOCAL SIG** STANDARDS SIG



#### **RT-11 SPECIAL INTEREST GROUP**

A Special Interest Group has been formed to serve users of RT-11. The organization of the SIG consists of a SIG Chairman and working committees for standards, documentation, library submissions, newsletter, and help for new users.

Submissions to the newsletter should be directed to:

John T. Rasted CAM Systems, Inc. 17 Brown Street Waterbury, CT 06702 (203) 757-8010

Other communications can be sent to:

Thomas J. Provost
P. O. Box 95
Middleton, MA 01949
(617) 774-2370
(617) 245-6600 (Boston tie line)

or

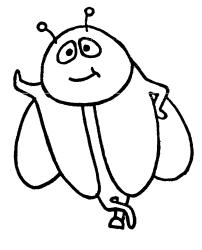
Thomas J. Provost RT-11 SIG Chairman c/o DECUS 129 Parker Street, PK3-1/E55 Maynard, MA 01754 (617) 897-5111, ext: 2414

SIG's activities encompass the following:

- 1. Preparation of a SIG newsletter (user submissions are strongly encouraged).
- 2. Exchange of user-written programs. This exchange could include TASKS representing user-written extensions to RT-11 (including, but not limited to device drivers) as well as utility and applications programs, etc.
- 3. Establishment of communications with the DECUS staff to obtain for SIG members early information on RT-11 related additions to the DECUS Library. These communications will also serve to provide prompt testing of such submissions.
- 4. Establishment of user input to appropriate groups within DEC, so that they will receive user feedback on any additions or needed changes to RT-11. Additionally, SIG members may receive early warning from DEC about RT-11 changes.
- 5. Establishment of SIG-maintained files of RT-11 errors and error solutions, where they exist, independent of DEC publications.
- 6. Establishment of RT-11 "Welcome Wagon" type services to aid new users.

<ol><li>Coordination of user input to standards and docu</li></ol>	mentation work.
	ase fill out the form below and return it to the DECUS Office.
NAME	*DECUS MEMBERSHIP NO
AFFILIATION	
ADDRESS	
CITYSTA	ATE ZIP CODE
Are you registered with DEC as an RT-11 user?	
Version Number	
Fortran?	

<sup>\*</sup>Please note one must be a member of DECUS prior to requesting RT-11 SIG involvement. For general membership information, contact the DECUS Office, 129 Parker Street, Maynard, MA 01754



# debug

DEBUG is dedicated to establishing an interchange of ideas between business users of DEC computers in accounting allied applications, and between the users and DEC.

#### **DEBUG MEMBERSHIP APPLICATION**

Name		Title	
Firm			
Address		Telephone	
City		_State	Zip
DECUS NO. *			•
	BACKGROUND AN	ND EXPERIENCES	
ences and viewpoints lie, we ask that you f	rvice orgnaizations, DEBUG car of its own membership. To le ill out the following vitae form ith respect and confidentiality	t us know where your own. You may, of course, de	experiences and interests
ACADEMIC BACKGROUND	favorite subject area	minor subject area	also studied
BUSINESS AREAS AND/OR FUNCTIONS	most experience with	fair experience with	worked around
COMPUTER SYSTEMS WORKED WITH	favorite system, language	also experienced with	smattering of
*Please note one m For general member PK3-1/E55, Maynam	must be a member of DECUS ership information, conta cd, MA 01754. I would consider:	☐ Chairing a DEBUG☐ Organizing a session	129 Parker Street, session



## DIGITAL EQUIPMENT COMPUTER USERS SOCIETY Special Interest Group in Implementation Languages

SIGIL

A Special Interest Group on System Implementation Languages, Tools and Techniques (SIGIL) was formed at the 1973 Fall DECUS Symposium.

The initial goals of the group are to provide the following:

- Interchange of ideas and modules among programmers working in the system
  implementation area. The chief aim in this area is to avoid inventing square
  wheels when someone else has already developed round ones. The contributions
  in this area can range from core management modules to internal documentation
  practices, with distribution by newsletter.
- Work with DEC Software Development for the user community on improving the existing languages used for systems implementation (MACRO-10, BLISS-10 and ALGOL). This is envisioned as a small group of users willing to spend the time and effort necessary.

To make a success of SIGIL, or to widen the area of interest across product lines, requires active participation of the members. Submissions to the newsletter or other communications may be sent to the following address:

SIGIL c/o DECUS Office 129 Parker Street, PK3/E55 Maynard, MA 01754

*Please note one must be a member of DECUS prior to requesting SIGIL involvement. For general membership information, contact the DECUS Office, 129 Parker Street, Maynard, MA 01754				
<b>To join SIGIL</b> , please fill out the form below and return it to t	ne DECUS Office.			
Are you a DECUS Member?	DECUS Membership Number			
NAME				
AFFILIATION				
ADDRESS				
CITY STAT				
TELEPHONE NUMBER				

#### SOFTWARE PROBLEMS OR ENHANCEMENTS

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

AREAS COVERED United States, remainder of Far East, Middle East, Africa Latin America	SPR CENTER  Administrative Services Group, SWS P.O.Box F  Maynard MA 01754	AREAS COVERED Italy	SPR CENTER  Digital Equipment SPA  Viale Fulvio Testi 117  20092 Cinisillo Balsamo  Italy
Canada	Digital Equipment Canada P.O.Box 11500 Kanata Canada K2H 8K8 Ontario	Japan	Digital Equipment Corp., INTL 3rd Floor Kowa Building 8-7 Sanban Cho Chiyoda Ku Tokyo 102 Japan
United Kingdom	Digital Equipment Corp., LTD Fountain House Butts Centre RG1 7QN Reading England	New Zealand	Digital Equipment Corp., LTD Challenge House 3 Wolfe Street P.O.Box 2471 Auckland New Zealand 10010
Australia-Melbourne	Digital Equipment Aust. Pty., LTD 60 Park Street South Melbourne Victoria Australia 3205	Belgium, Holland	Digital Equipment BV Kaap Horndreef 38 3563 AV Utrecht Netherlands
Australia-Sydney	Digital Equipment Aust. Pty., LTD 123 125 Willoughby Road P.O.Box 491 Crows Nest NSW Australia 2065	Denmark, Finland, Norway, Sweden	Digital Equipment Corp., AB Englundavaegen 73 TR 171 41 Solna Sweden
Brazil	Digital Equipment Comercio Ind Rua Batatais 429 Esq AL Campin 01423 Jardim Paulista Sao Paulo 0100 Brazil	Switzerland, Spain, Greece, Romania, Portugal, Bulgaria Yugoslavia	Digital Equipment Corp., SA 20 Quai Ernest Ansermet Boite Postale 23 CH 1211 Geneva Switzerland
Caribbean	De Latin America P.O.Box 11038 Fernando Juncos Sta. Santurce PR 00910	Austria, Poland Hungary, Rumania East Germany, West Germany, Russia, Czechslovakia	Digital Equipment Corp., GMBH Wallsteinplatz 2 8000 Munchen 40 Germany 8000
France	Digital Equipment Corp., LTD. Centre Silic Cidex L225 18 Rue Saarinen 94533 Rungis France	Israel	DECSYS Computers, LTD 7 Habakuk Street II-Tel Aviv 63505 Israel

DIGITAL EQUIPMENT CORPORATION, Corporate Headquarters: Maynard, Massachusetts 01754, Telephone: (617)897-5111-SALES AND SERVICE OFFICES: UNITED STATES-ALABAMA, Huntsville • ARIZONA, Phoenix and Tucson • CALIFORNIA, El Segundo, Los Angeles, Oakland, Ridgecrest, San Diego, San Francisco (Mountain View), Santa Ana, Santa Clara, Stanford, Sunnyvale and Woodland Hills • COLORADO, Englewood • CONNECTICUT, Fairfield and Meriden • DISTRICT OF COLUMBIA, Washington (Lanham, MD) • FLORIDA, Ft. Lauderdale and Orlando • GEORGIA, Atlanta • HAWAII, Honolulu • ILLINOIS, Chicago (Rolling Meadows) • INDIANA, Indianapolis • IOWA, Bettendorf • KENTUCKY, Louisville • LOUISIANA, New Orleans (Metairie) • MARY-LAND, Odenton • MASSACHUSETTS, Marlborough, Waltham and Westfield • MICHIGAN, Detroit (Farmington Hills) • MINNESOTA, Minneapolis • MISSOURI, Kansas City (Independence) and St. Louis • NEW HAMPSHIRE, Manchester • NEW JERSEY, Cherry Hill, Fairfield, Metuchen and Princeton • NEW MEXICO, Albuquerque • NEW YORK, Albany, Buffalo (Cheektowaga), Long Island (Huntington Station), Manhattan, Rochester and Syracuse • NORTH CAROLINA. Durham/Chapel Hill • OHIO, Cleveland (Euclid), Columbus and Dayton • OKLA-HOMA, Tulsa • OREGON, Eugene and Portland • PENNSYLVANIA, Allentown. Philadelphia (Bluebell) and Pittsburgh • SOUTH CAROLINA, Columbia • TEN-NESSEE, Knoxville and Nashville • TEXAS, Austin, Dallas and Houston • UTAH, Salt Lake City • VIRGINIA, Richmond • WASHINGTON, Bellevue • WISCONSIN, Milwaukee (Brookfield) • INTERNATIONAL-ARGENTINA, Buenos Aires • AUSTRALIA, Adelaide, Brisbane, Canberra, Melbourne, Perth and Sydney • AUSTRIA, Vienna • BELGIUM, Brussels • BOLIVIA, La Paz • BRAZIL, Rio de Janeiro and Sao Paulo • CANADA, Calgary, Edmonton, Halifax, London, Montreal, Ottawa, Toronto, Vancouver and Winnipeg • CHILE, Santiago • DENMARK, Copenhagen • FINLAND, Helsinki • FRANCE, Lyon, Grenoble and Paris • GERMAN FEDERAL REPUBLIC, Cologne, Frankfurt, Hamburg, Hannover, Munich, Nuremburg, Stuttgart and West Berlin • HONG KONG • INDIA, Bombay • INDONESIA, Djakarta • IRELAND, Dublin • ITALY, Milan, Rome and Turin • IRAN, Tehran • JAPAN, Osaka and Tokyo • MALAYSIA, Kuala Lumpur • MEXICO, Mexico City • NETHERLANDS, Utrecht • NEW ZEALAND, Auckland and Christchurch • NORWAY, Oslo • PUERTO RICO, Santurce • SINGAPORE • SPAIN, Madrid • SWEDEN, Gothenburg and Stockholm • SWITZERLAND, Geneva and Zurich • UNITED KINGDOM, Birmingham, Bristol, Epsom, Edinburgh, Leeds, Leicester, London, Manchester and Reading VENEZUELA, Caracas