

#### February 1979

This document provides an introduction to the software documentation set shipped with the current version of the VAX/VMS operating system. It provides a synopsis of each document in the basic set and of each optional document. The order number of each document is also identified. To help you locate key information, a topical index is provided to direct you to the specific document containing that information.

# VAX-11 Information Directory

Order No. AA-D016B-TE

# **READ THIS FIRST**

SUPERSESSION/UPDATE INFORMATION:

OPERATING SYSTEM AND VERSION:

SOFTWARE VERSION:

This document has been revised. It supersedes AA-D016A-TE.

VAX/VMS V1.5

Not applicable

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TRAX	
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# PREFACE

#### MANUAL OBJECTIVES

The VAX-11 Information Directory describes the manuals in the VAX/VMS document set, and provides a topical index to the documentation.

#### **INTENDED AUDIENCE**

This manual is intended for all VAX/VMS users. One of its functions is to guide each reader to the manuals most suited to his or her needs.

#### STRUCTURE OF THIS DOCUMENT

This manual begins with brief descriptions of the document set and system installation, and then contains two main segments:

- Information about each manual in the document set. Section 3 identifies the title, order number, and intended audience of each manual. Section 4 provides a synopsis of each manual.
- A topical index. Section 5 lists major topics and the manuals in which they are treated. This index covers the manuals in Volumes 1 through 3; it does not refer to documents for RMS-11, SORT, and optional software components.

#### **SUMMARY OF CHANGES**

This revision adds information about the following new manuals:

- VAX/VMS Guide to Writing a Device Driver
- VAX-11 Guide to Creating Modular Library Procedures
- VAX-11 SORT User's Guide
- Manuals for BLISS and VAX-11 COBOL

Several other manuals in the VAX/VMS document set have been revised or updated for this release. Their order numbers and descriptions have been changed as needed.

# 1.0 INTRODUCTION

The VAX/VMS software release distribution kit includes a software documentation set that contains programming and operating information associated with the VAX/VMS operating system. DIGITAL ships a complete software documentation set with each software system; however, the number and type of documents shipped to an installation depend upon the license or licenses that the customer has purchased.

All VAX/VMS customers receive the basic software documentation set consisting of the documents packaged in Volumes 1 through 4 (see Section 3.0 for details). Customers receive optional documentation packaged in Volume 5 only when they purchase a special license or licenses for optional software.

# 2.0 SYSTEM INSTALLATION

The VAX/VMS base-line system that you receive is ready to run on your VAX-11/780 processor. However, the base-line system must be installed, following the installation procedure contained in the VAX-11 Software Installation Guide, to produce a system that is tailored to the specific hardware and software requirements of your facility.

If you have purchased licenses for optional software components, you must perform the applicable installation procedures. These are contained in the VAX-11 Software Installation Guide or a separate installation guide.

Before performing any installation, you should read the VAX/VMS Release Notes thoroughly. This document contains important update information correcting any errors or noting any changes in the software and documentation.

# 3.0 HOW THE DOCUMENTS ARE ORGANIZED

The documents are packaged in five volumes. The information contained in the various volumes is categorized as follows:

- Volume 1 System Reference
- Volume 2 System Procedures
- Volume 3 VAX/VMS I/O
- Volume 4 RMS-11/SORT
- Volume 5 Optional Software

Each volume may consist of several ring binders; each binder may contain several documents. Table 1 lists the documents in the set, with their order numbers and suggested audiences. Check your documents to make sure you received the complete documentation set. Keep in mind that you receive optional documentation only when you purchase a special license for a software component.

The audiences for each document are identified by an "X" in one or more of the right-hand columns of Table 1. The job titles used in Table 1 are described as follows.

- The system manager is responsible for overall operation of the VAX/VMS system. This includes installing the system, overseeing its performance, and supervising day-to-day operations.
- The system programmer uses VAX-11 MACRO assembly language (or a development language) to maintain, modify, and develop system programs. These programs are used to operate the VAX-11/780 processor and its peripherals.
- The *application programmer* uses high-level languages (FORTRAN IV-PLUS, FORTRAN IV, COBOL, BASIC-PLUS-2) to develop programs for user applications.
- The operator is anyone who uses the VAX/VMS system directly to do work.

					lience	
Volume	Document Title	DEC Order Number	Operator	Application Programmer	System Programmer	System Manager
VOLUME 1A System	VAX-11 Information Directory	AA-D016B-TE	x	х	X	х
Reference	VAX/VMS Summary Description	AA-D022A-TE	х	x	x	x
	VAX/VMS Primer	AA-D030A-TE	х	x	x	x
	VAX/VMS Release Notes	AA-D015B-TE	х	x	x	X
	VAX-11 Software Installation Guide	AA-D021B-TE				X
	VAX/VMS System Services Reference Manual	AA-D018A-TE		X	X	X
VOLUME 1B System	VAX/VMS Command Language User's Guide and	AA-D023A-TE	x	x	x	X
Reference	Update Notice No. 1	AD-D023A-T1	x	x	x	X
	VAX-11 Linker Reference Manual	AA-D019A-TE		x	x	x
	VAX-11 Symbolic Debugger Reference Manual	AA-D026A-TE		X	X	
VOLUME 1C System Reference	VAX-11/RSX-11M Programmer's Reference Manual	AA-D020A-TE		x	x	
	VAX-11/RSX-11M User's Guide	AA-D037A-TE		x	x	
	VAX-11 MACRO Language Reference Manual	AA-D032B-TE			X	
	VAX-11 MACRO User's Guide	AA-D033B-TE			X	
VOLUME 2A System Procedures	VAX-11 Common Run-Time Procedure Library Reference Manual	AA-D036A-TI	E	X	X	
	VAX-11 Guide to Creating Modular Library Procedures	AA-H500A-TI	Ξ	x	x	
	VAX-11 Text Editing Reference Manual	AA-D029A-TI	EX	x	x	x
VOLUME 2B	VAX/VMS Operator's Guide	AA-D025A-T	E X	X	x	x
System Procedures	VAX/VMS System Manager's Guide	AA-D027A-T	E			x
	VAX/VMS System Message and Recovery Procedures Manual	AA-D017A-T	EX	x	x	x
	VAX/VMS UETP User's Guide	AA-D643A-T	E X			x

Table 1 VAX-11 Software Documentation

	,			Aud	lience	
Volume	Document Title	DEC Order Number	Operator	Application Programmer	System Programmer	System Manager
VOLUME 2B (Cont.)	VAX-11 Disk Save and Compress User's Guide	AA-D739A-TE	x	x	x	х
VOLUME 3 VAX/VMS	VAX/VMS I/O User's Guide and	AA-D028A-TE			X	
I/O	Update Notice No. 1	AD-D028A-T1			x	
	VAX/VMS Guide to Writing a Device Driver	AA-H499A-TE			X	x
	Introduction to VAX-11 Record Management Services	AA-D024B-TE		Х	Х	
	VAX-11 Record Management Services Reference Manual	ÁA-D031B-TE		х	x	
	VAX-11 Record Management Services User's Guide	AA-D781B-TE		х	x	
VOLUME 4 RMS-11 SORT	IAS/RSX-11M RMS-11 MACRO Programmer's Reference Manual	AA-0002A-TC			х	
	Introduction to RMS-11	AA-0001A-TC		Х	х	
	RSX-11M RMS-11 V1.5 Utilities User's Guide	AA-D083A-TC		X	X	
	VAX-11 SORT User's Guide	AA-D113A-TE	Х	Х	Х	х
	PDP-11 SORT Reference Manual	AA-3341C-TC		х	Х	
VOLUME 5A *Optional Software	VAX-11 FORTRAN IV-PLUS Language Reference Manual*	AA-D034A-TE		х		
FORTRAN IV-PLUS	VAX-11 FORTRAN IV-PLUS User's Guide*	AA-D035A-TE		X		
VOLUME 5B *Optional Software	PDP-11 FORTRAN Language Reference Manual* and	DEC-11- LFLRA-C-D		X		
FORTRAN IV	Update Notice No. 1*	DEC-11- LFLRA-C-DN1		Х		
	IAS/RSX-11 FORTRAN IV User's Guide*	DEC-11- LMFUA-D-D		Х		
VOLUME 5C *Optional	VAX-11 COBOL-74 Language Reference Manual*	АА-С985А-ТЕ		X		
Software COBOL	VAX-11 COBOL-74 User's Guide*	АА-С986А-ТЕ		Х		
	PDP-11 COBOL Language Reference Manual*	AA-1749E-TC		Х		
	PDP-11 COBOL User's Guide*	AA-1757D-TC		х		
	PDP-11 COBOL Pocket Guide*	AA-1750D-TC		X		

Table 1 (Cont.) VAX-11 Software Documentation

		· · · · · · · · · · · · · · · · · · ·	Audience			
Volume	Document Title	DEC Order Number	Operator	Application Programmer	System Programmer	System Manager
VOLUME 5D *Optional Software	PDP-11 BASIC-PLUS-2 Language Reference Manual*	AA-H074A-TC		X		
BASIC- PLUS-2	BASIC-PLUS-2 RSX-11M/ IAS User's Guide*	AA-0157B-TC		x		
VOLUME 5E *Optional Software	DECnet-VAX System Manager's Guide* and	AA-D902A-TE		x	x	x
DECnet	Update Notice No. 1*	AD-D902A-T1		Х	Х	x
	DECnet-VAX User's Guide* and	AA-D901A-TE		x	х	
	Update Notice No. 1*	AD-D901A-T1		х	x	
VOLUME 5F *Optional Software DATATRIEVE	User's Guide to DATATRIEVE-11*	AA-C742A-TC		х	х	
VOLUME 5G *Optional	BLISS-32 Language Guide*	АА-Н323А-ТЕ			X	
Software BLISS	VAX-11 BLISS-32 User's Guide*	АА-Н322А-ТЕ			x	х
	BLISS Pocket Guide*	AV-H289A-TE			x	

Table 1 (Cont.) VAX-11 Software Documentation

\*Available under separate license.

These job titles are loosely defined, but they are useful for indicating the general audience intended for each document. In small installations, all tasks may be performed by a single individual. Elsewhere, an application programmer might program in assembly language and a system programmer might be responsible for system management. When functions overlap, you should make appropriate adjustments from the suggested audiences given in Table 1.

# 4.0 VAX-11 SOFTWARE DOCUMENT DESCRIPTIONS

The following sections contain brief synopses of each document in the VAX-11 software documentation set. Documents marked with an asterisk (\*) are associated with major optional software components available with the current version of VAX/VMS. You receive these documents only when you purchase the license for the associated software component.

# 4.1 VAX-11 Information Directory

This document provides an introduction to the software documentation set shipped with the current version of the VAX/VMS operating system. It provides a synopsis of each document and a topical index that directs the user to the appropriate documents.

# 4.2 VAX/VMS Summary Description

This document introduces the basic concepts of the operating system and contains a glossary of VAX-11 terms.

# 4.3 VAX/VMS Primer

This document provides a tutorial introduction to the command language, and introduces operating system concepts of interest to general programmers and users.

# 4.4 VAX/VMS Release Notes

This document contains information not included elsewhere in the documentation set. Typically, this information covers software and/or documentation errors that were discovered or changes that were made late in the development cycle, plus hints concerning system installation and operation. This document should be read before the system is installed or used.

# 4.5 VAX-11 Software Installation Guide

This document contains instructions for installing the VAX/VMS system and the optional software components.

# 4.6 VAX/VMS System Services Reference Manual

This document describes the VAX/VMS system services. It provides coding conventions, examples of how to use system services, and detailed reference information on the arguments required by each system service.

# 4.7 VAX/VMS Command Language User's Guide and Update Notice No. 1

This document describes the command language. It provides detailed reference information and examples of all commands available to general users.

# 4.8 VAX-11 Linker Reference Manual

This document provides the information required for linking object modules into executable, shareable, or system images.

#### 4.9 VAX-11 Symbolic Debugger Reference Manual

This document contains the information required for debugging assembled and linked object programs, primarily those written in VAX-11 MACRO assembly language.

# 4.10 VAX-11/RSX-11M Programmer's Reference Manual

This document describes VAX/VMS support of the RSX-11M executive directives. It contains the information needed by an RSX-11M programmer responsible for making RSX-11M Version 3.1 task images run under VAX/VMS.

# 4.11 VAX-11/RSX-11M User's Guide

This document provides the information needed to use the VAX/VMS MCR command language, execute MCR indirect command files, and use RSX-11M components under VAX/VMS.

# 4.12 VAX-11 MACRO Language Reference Manual

This document describes the assembly language supported by VAX/VMS. All symbols, expressions, addressing modes, and directives are detailed. No prior knowledge of the VAX-11 MACRO assembler is assumed.

# 4.13 VAX-11 MACRO User's Guide

This document contains information that an assembly language programmer needs to use the capabilities of the VAX-11 MACRO assembly language efficiently.

#### 4.14 VAX-11 Common Run-Time Procedure Library Reference Manual

This document contains detailed reference information that describes the general-purpose procedures of the VAX-11 Common Run-Time Procedure Library. It also describes how library procedures are called and provides programming techniques.

# 4.15 VAX-11 Guide to Creating Modular Library Procedures

This document describes how to design and code modular procedures so that they can be installed in an object module library or in a shareable image. It also includes standards and recommendations for modular programming.

# 4.16 VAX-11 Text Editing Reference Manual

This document describes in detail the features and use of the two text-editing programs provided with VAX/VMS: SOS, an interactive editor, and SLP, a batch-oriented editor.

#### 4.17 VAX/VMS Operator's Guide

This document contains descriptions of operating procedures and commands needed by a system operator. It also describes the messages produced by the Operator's Communication Process (OPCOM).

#### 4.18 VAX/VMS System Manager's Guide

This document describes the tasks associated with VAX/VMS system management. They include setting up user accounts, managing public files and volumes, controlling overall system performance, monitoring system activity, and recognizing and dealing with errors and failures.

#### 4.19 VAX/VMS System Messages and Recovery Procedures Manual

This document contains a list of system messages. For most messages, descriptions and suggested recovery procedures are also provided.

# 4.20 VAX/VMS UETP User's Guide

This document describes the functions of the User Environment Test Package (UETP) and provides operating instructions for running the package.

#### 4.21 VAX-11 Disk Save and Compress User's Guide

This document explains the capabilities and usage of the two Disk Save and Compress (DSC) utilities that are used for copying Files-11 disk files to either disk or magnetic tape, and from magnetic tape back onto disk. It is intended for users with some VAX-11/780 experience and some familiarity with VAX/VMS operating system concepts and procedures.

# 4.22 VAX/VMS I/O User's Guide and Update Notice No. 1

This document contains the information needed to interface directly with the I/O device drivers using VAX/VMS system services (for example, the Queue I/O system service) supplied as a part of the operating system. This document does not contain information on I/O operations using VAX-11 Record Management Services (RMS). The update notice describes the use of the LPA11-K driver and the high-level language procedure library that interfaces with this driver.

# 4.23 VAX/VMS Guide to Writing a Device Driver

This document explains how to write I/O drivers for devices that are not supported by DIGITAL software, and how to load these drivers into the VAX/VMS operating system.

#### 4.24 Introduction to VAX-11 Record Management Services

This document contains a general description of the native-mode record management services of the VAX/VMS operating system. The information in this document is introductory in nature; hence, programming techniques are not presented.

#### 4.25 VAX-11 Record Management Services Reference Manual

This document describes VAX-11 Record Management Services (RMS). It provides detailed information on the use of VAX-11 RMS facilities with the VAX/VMS operating system.

# 4.26 VAX-11 Record Management Services User's Guide

This document contains detailed information on using the capabilities of VAX-11 RMS efficiently. Typical examples are provided to illustrate programming concepts.

# 4.27 IAS/RSX-11M RMS-11 MACRO Programmer's Reference Manual

This document provides a complete description of Record Management Services for PDP-11 (RMS-11) as set up on an RSX-11M or IAS operating system. RMS-11 files can be organized sequentially, relatively, or with embedded indexes. The document will help system programmers using MACRO-11 to declare RMS-11 facilities, access fields in control blocks at run time, allocate and initialize control blocks, and perform file and record operations.

# 4.28 Introduction to RMS-11

This document describes RMS-11 concepts and facilities. It explains how to build and access files, summarizes RMS-11 operations, and describes the run-time environment. Since RMS-11 runs in compatibility mode, see the VAX-11/RSX-11M Programmer's Reference Manual and the VAX-11/RSX-11M User's Guide for additional information about using RMS-11 on VAX/VMS.

# 4.29 RSX-11M RMS-11 V1.5 Utilities User's Guide

This document describes the operation and use of RMS-11 utilities as follows:

- DEFINE create files
- CONVERT move data from one file to another
- BACKUP create back-up copies of files
- DISPLAY list attributes of RMS-11 files and names of back-up files
- RESTORE restore back-up files to their original state

On VAX/VMS, RMS-11 utilities are run in compatibility mode; therefore, see the VAX-11/RSX-11M Programmer's Reference Manual and the VAX-11/RSX-11M User's Guide for additional information.

# 4.30 VAX-11 SORT User's Guide

This document describes how to use the VAX-11 SORT utility program, and is written for the full range of VAX/VMS system users. VAX-11 SORT can perform different types of sorting operations and can accept a variety of specifications. VAX-11 SORT operates in native mode.

# 4.31 PDP-11 SORT Reference Manual

This document describes the features and operations of the PDP-11 SORT utility program. PDP-11 SORT can perform different types of sorting operations and can accept a variety of specifications. PDP-11 SORT operates in compatibility mode.

# 4.32 VAX-11 FORTRAN IV-PLUS Language Reference Manual\*

This document describes the FORTRAN language elements supported by VAX-11 FORTRAN IV-PLUS. It is intended to be used as a reference manual in preparing FORTRAN source programs. It is not a tutorial document, nor does it present information on the FORTRAN user's interface to the VAX/VMS operating system.

# 4.33 VAX-11 FORTRAN IV-PLUS User's Guide\*

This document describes how to compile, link, debug, and execute programs written in the VAX-11 FORTRAN IV-PLUS language, using the facilities of the VAX/VMS operating system. It also contains other information of interest to FORTRAN programmers; for example, error processing, programming efficiency, compatibility with PDP-11 FORTRAN, and FORTRAN input/output.

# 4.34 PDP-11 FORTRAN Language Reference Manual and Update Notice No. 1\*

This document describes PDP-11 FORTRAN IV, which is supported by VAX/VMS in compatibility mode. It defines the elements of FORTRAN and the structure of FORTRAN programming and describes the components of a FORTRAN statement. Also included are descriptions of assignment, control, input/output, format, specification statements, as well as how to use FORTRAN library subprograms or write your own. The manual does not include system-dependent information; see the *IAS/RSX FORTRAN IV User's Guide* for this information. The update gives clarification on relationships between PDP-11 FORTRAN IV and PDP-11 FORTRAN IV-PLUS (which is not supported by VAX/VMS). It also includes a new appendix covering virtual arrays.

# 4.35 IAS/RSX FORTRAN IV User's Guide\*

This document describes the procedures for compiling, linking, and executing IAS/RSX FORTRAN IV programs. It also explains the FORTRAN Object Time System, a collection of routines that includes mathematics, utilities, input/output handlers, and system services. OTS routines are selected optionally during installation. On VAX/VMS, PDP-11 FORTRAN operates in compatibility mode.

# 4.36 VAX-11 COBOL-74 Language Reference Manual\*

This document describes the VAX-11 COBOL-74 programming language, including its organization, syntax, and semantics. For system-dependent information, see the VAX-11 COBOL-74 User's Guide.

# 4.37 VAX-11 COBOL-74 User's Guide\*

This document describes the use of VAX-11 COBOL-74. It includes procedures for compiling, linking, and running VAX-11 COBOL-74 programs. The User's Guide lists compiler, RMS, and Run-Time System diagnostics. VAX-11 COBOL-74 operates in compatibility mode and generates native-mode object modules.

# 4.38 PDP-11 COBOL Language Reference Manual\*

This document describes the PDP-11 COBOL programming language, including its organization, syntax, and semantics. For system-dependent information, see the PDP-11 COBOL User's Guide.

# 4.39 PDP-11 COBOL User's Guide\*

This document describes the use of PDP-11 COBOL. It includes procedures for compiling, taskbuilding, and running PDP-11 COBOL programs. The User's Guide lists compiler, RMS-11, and Object-Time System diagnostics. On VAX/VMS, PDP-11 COBOL operates in compatibility mode and generates compatibility-mode object programs.

# 4.40 PDP-11 COBOL Pocket Guide\*

This booklet contains the general formats for PDP-11 COBOL statements; it also includes other frequently-needed information, such as data formats, in a convenient form.

# 4.41 PDP-11 BASIC-PLUS-2 Language Reference Manual\*

This document describes the BASIC-PLUS-2 programming language, an extension of BASIC-11 with some advanced features. It also introduces programming in BASIC, and explains BASIC-PLUS-2 statements, functions, commands, and error messages. The document is arranged to help the beginner acquire knowledge gradually. For system-dependent information, see the BASIC-PLUS-2 RSX-11M/IAS User's Guide.

# 4.42 BASIC-PLUS-2 RSX-11M/IAS User's Guide\*

This document describes the procedures for using BASIC-PLUS-2 on an RSX-11M or IAS operating system, including system-dependent features, utilities, and the use of assembly-language routines in BASIC-PLUS-2 programs. On VAX/VMS, BASIC-PLUS-2 operates in compatibility mode.

# 4.43 DECnet-VAX System Manager's Guide and Update Notice No. 1\*

This document tells the DECnet system manager how to control, monitor, and test a DECnet-VAX system, and how to down-line load a DECnet-11S node.

# 4.44 DECnet-VAX User's Guide and Update Notice No. 1\*

This document describes the programmed requests and terminal functions that allow a DECnet-VAX node to communicate with another DECnet node. It explains how to write a MACRO or FORTRAN program to perform intertask communications and remote file access. Also, it describes interactive facilities used to transfer files to and from remote nodes.

# 4.45 User's Guide To DATATRIEVE-11\*

This document describes the use of DATATRIEVE-11 to extract, display, create, and change data from RMS-11K files. On VAX/VMS, DATATRIEVE-11 operates in compatibility mode.

# 4.46 BLISS-32 Language Guide\*

This document is a combined tutorial and reference manual for the BLISS-32 programming language. BLISS-32 is oriented toward system-programming usage, and is primarily intended for knowledgeable users of the VAX-11/780 and the VAX/VMS operating system.

# 4.47 VAX-11 BLISS-32 User's Guide\*

This document describes the VAX-11 BLISS-32 compiler and its use, and gives basic information about linking, executing, and debugging BLISS-32 programs. It also describes BLISS-32 machine-specific functions, BLISS tools, and other topics relevant to BLISS-32 programming.

# 4.48 BLISS Pocket Guide\*

This guide presents a syntax summary for the family of BLISS language dialects consisting of BLISS-16C, BLISS-32, and BLISS-36. It describes the Common BLISS language features that constitute the bulk of all three dialects, plus the additional system-specific features unique to each dialect. A summary of the command line syntax for the respective compilers is also provided.

#### 5.0 TOPICAL INDEX

The following topical index contains entries to important information in Volumes 1 through 3 of the VAX-11 software documentation set. No attempt was made to compile an exhaustive index; rather, topics were selected on the basis of their general importance to VAX/VMS users.

A five-letter code is used in the index to represent each individual document. Page numbers are not included in this index; therefore, to pinpoint an item of interest by page number, you must go to the Table of Contents and the index in the specified document.

In some cases, a topic has more than one document code specified. When this occurs, the first code identifies the document that contains introductory information, while later codes identify documents that contain detailed information on the subject.

The documents referred to in the index and their identifying codes are listed below.

- COMAN VAX/VMS Command Language User's Guide
- DEBUG VAX-11 Symbolic Debugger Reference Manual
- DRIVR VAX/VMS Guide to Writing a Device Driver
- DSCUG VAX-11 Disk Save and Compress User's Guide
- INSTA VAX-11 Software Installation Guide
- INTRO Introduction to VAX-11 Record Management Services
- IOUGD VAX/VMS I/O User's Guide
- LINKR VAX-11 Linker Reference Manual
- MACRF VAX-11 MACRO Language Reference Manual
- MACUG VAX-11 MACRO User's Guide
- MODGD VAX-11 Guide to Creating Modular Library Procedures
- OPGUI VAX/VMS Operator's Guide
- PRIMR VAX/VMS Primer

- RMSRF– VAX-11 Record Management Service Reference ManualRMSUG– VAX-11 Record Management Services User's GuideRUNTM– VAX-11 Common Run-Time Procedure Library Reference ManualSSREF– VAX/VMS System Services Reference ManualSUMAR– VAX/VMS Summary DescriptionSYMAN– VAX/VMS System Manager's GuideTEXED– VAX-11 Text Editing Reference Manual11MRF– VAX-11/RSX-11M Programmer's Reference Manual
- 11MUG VAX-11 RSX-11M User's Guide

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Documents missing from the above list are not referenced in the topical index. The following list is supplied to identify the topics not included in the index and their associated documents. Refer to Table 1 to obtain document titles and order number.

To Locate Information About	Refer to the Following
BASIC-PLUS-2	BASIC-PLUS-2 documents
BLISS	VAX-11 BLISS-32 documents
COBOL	VAX-11 and PDP-11 COBOL documents
DATATRIEVE-11	User's Guide to DATATRIEVE-11
DECnet-VAX	DECnet-VAX documents
FORTRAN IV-PLUS	VAX-11 FORTRAN IV-PLUS documents
FORTRAN IV	PDP-11 FORTRAN IV documents
RMS-11	RMS-11 documents
SORT	VAX-11 SORT User's Guide and PDP-11 SORT Reference Manual
VAX/VMS System Messages	VAX/VMS System Messages and Recovery Procedures Manual
UETP	VAX/VMS UETP User's Guide

\$FAB macro instruction, RMSRF
\$INPUT macro format, IOUGD, SSREF
\$NAM macro instruction, RMSRF
\$OUTPUT macro format, IOUGD, SSREF
\$QIO macro format, IOUGD, SSREF
\$QIOW macro format, IOUGD, SSREF
\$RAB macro instruction, RMSRF
\$XAB macro instruction, RMSRF

#### A

Abbreviating commands, PRIMR Accessing devices in batch jobs, COMAN Accessing the system, PRIMR, COMAN Access modes, SUMAR, SSREF Accounting file, SYMAN, SSREF Accounting for system resources, SYMAN ACP functions for spooled device, IOUGD ACP QIO functions, IOUGD Allocation, device, COMAN, SSREF Allocation, virtual memory, SUMAR Analog to digital converter (LPA11-K), IOUGD Ancillary control process (ACP), IOUGD Assembler directives, general, MACRF Assembling and compiling programs, PRIMR Assigning system logical names, SYMAN Assignment statements, PRIMR, COMAN Asynchronous system traps (AST), SUMAR, IOUGD, SSREF Asynchronous system trap services, SSREF

AUTHORIZE program, SYMAN

#### B

Backing up files and volumes, SYMAN, OPGUI Balance set, SUMAR, SSREF Batch job processing, PRIMR, COMAN Batch job, terminating a, OPGUI Batch queue, COMAN deleting jobs in submitting jobs in Batch queues, SYMAN creating deleting starting stopping Batch text editor (SLP), TEXED Basic disk concepts, INTRO Basic tape concepts, INTRO Block, bootstrap, INTRO home, INTRO, SYMAN Block I/O macro instructions, RMSRF \$READ \$SPACE \$WRITE Block input/output, INTRO Booting the system, OPGUI, INSTA Bootstrap block, INTRO Breakpoints, DEBUG Buckets, INTRO, RMSRF

# С

Calling routines, DEBUG Calling run-time library procedures, RUNTM Calling system services, SSREF FORTRAN coding MACRO coding Calls, showing, DEBUG Card reader batch, COMAN Card reader driver, IOUGD Channel assignments, IOUGD, SSREF Change mode services, SSREF Changing defaults, PRIMR, COMAN Changing the file attributes, RMSRF Changing the UAF, SYMAN CL, 11MUG CO. 11MUG Command descriptions, COMAN =(assignment statement) @(execute procedure) ALLOCATE APPEND ASSIGN BASIC BLISS CANCEL CLOSE COBOL/C74 COBOL/RSX11 CONTINUE COPY CREATE DEALLOCATE DEASSIGN DEBUG DECK DEFINE DELETE

Command descriptions (Cont.) DELETE/ENTRY DELETE/SYMBOL DEPOSIT DIFFERENCES DIRECTORY DISMOUNT DUMP EDIT EOD **EXAMINE** EXIT FORTRAN GOTO HELP IF **INITIALIZE INQUIRE** JOB LIBRARY LINK LINK/RSX LOGOUT MACRO MCR MOUNT ON **OPEN** PASSWORD PRINT PURGE READ RENAME REQUEST RUN SET SHOW SORT SORT/RSX11 STOP SUBMIT **SYNCHRONIZE** TYPE **UNLOCK** WAIT WRITE Command environment, COMAN Command, operator, OPGUI **ASSIGN/MERGE** ASSIGN/QUEUE **DEASSIGN/QUEUE DELETE/OUEUE INITIALIZE/QUEUE** MCR BAD

Command, operator (Cont.) MCR DSC1 MCR DSC2 MCR VFY1 MCR VFY2 REPLY **RUN SYS\$SYSTEM:INSTALL RUN SYS\$SYSTEM:SYE** SET ACCOUNTING SET DEVICE SET LOGINS SET PRINTER SET PROTECTION/DEVICE SET TERMINAL/PERMANENT SET UIC SHOW TERMINAL/PERMANENT **START/QUEUE** STOP/ABORT STOP/ENTRY **STOP/OUEUE** STOP/REOUEUE Command procedure, COMAN creating commands for controlling executing lexical functions reading and writing files using a using symbols in Command procedures, PRIMR, COMAN Command prompting, PRIMR Commands, debugger, DEBUG Commands for, AUTHORIZE, SYMAN batch jobs, COMAN command procedures, COMAN device handling. COMAN file manipulation, COMAN program control, COMAN program development, COMAN terminal communications, COMAN terminal control. COMAN Command syntax, MCR, 11MUG Common event flags, SUMAR, SSREF COMMON option, VAX/VMS support of, 11MRF Compatibility mode, SUMAR Compatibility mode instruction set, VAX-11/780, 11MRF Compatibility with RSX-11M Version 3.1, 11MRF Compiling a program, PRIMR Completion status codes. RMSRF Condition handlers, SUMAR, COMAN, SSREF Condition handling procedures, RUNTM

Condition handling services, SSREF Continue processing on next volume, RMSRF Control block usage, RMSRF Control characters, SOS, TEXED Control (CTRL) keys, COMAN Control routines, RMSRF halt I/O and close files set default directory set default file protection Controlling batch queues, OPGUI Controlling print queues, OPGUI Conversion of RSX-11M directives, 11MRF Conversion of RSX-11M I/O function codes. 11MRF Creating a file, PRIMR, RMSRF, RMSUG Creating an OPTIONS file, LINKR Creating a program, PRIMR Creating permanent global sections, SYMAN, SSREF Creating processes, COMAN. SSREF Creating the UAF, SYMAN Cross reference, LINKR, MACUG, MACRF Copying files, PRIMR, COMAN

# D

Data acquisition devices (LPA11-K), IOUGD Data structures and devices, protection of, SYMAN DCL commands, summary of, COMAN Debugger commands, DEBUG Debugger facilities, DEBUG Debugger modes, DEBUG ASCII context controlling global hexadecimal initializing instruction length NOASCII noglobal noinstruction nosymbolic noscope octal overriding pathname search radix reporting restoring scope symbolic

Debugger special characters, DEBUG Debugger symbol table, DEBUG Debugging, symbolic, COMAN, DEBUG with virtual addresses, COMAN, DEBUG Default logical names, COMAN, RMSUG Deleting a file, PRIMR, RMSRF, COMAN Deleting a record, RMSRF Depositing data into locations, DEBUG Detached processes, SUMAR, SSREF, COMAN Device allocation, COMAN, IOUGD, SSREF Device driver, how to write, DRIVR Device initialization routines (LPA11-K), IOUGD Device name mapping for RSX-11M images, 11MUG, 11MRF Device names, COMAN, RMSUG Devices, PRIMR Digital I/O register (LPA11-K), IOUGD Digital to analog converter (LPA11-K), IOUGD Directories. RMSUG, COMAN hierarchies, COMAN Disk, advantages of, INTRO concepts of. INTRO copy files to and from, COMAN driver. IOUGD function codes, IOUGD QIO functions, IOUGD save and compress (DSC), DSCUG volume protection, COMAN Displaying files, PRIMR Display mode, DEBUG DISPLAY utility program, SYMAN commands of DCL command line output from Directives, 11MRF **RSX-11M** executive MCR (indirect file) Directory listing, PRIMR Directories, RMSUG DMC11 driver, IOUGD Drivers, IOUGD card reader disk DMC11 line printer LPA11-K magnetic tape mailbox terminal Drivers, how to write, DRIVR DSC, DSCUG command format

DSC (Cont.) devices error messages operations options qualifiers Duties of operator, OPGUI Duties of system manager, SYMAN DSW return codes, VAX/VMS emulation of, 11MRF

#### Ε

Editing an existing file, PRIMR Editor, using the, PRIMR Emulation of FPP floating point instructions, 11MRF **Emulation of RSX-11M** device and LUN assignments, 11MRF directives, 11MRF DSW return codes, 11MRF FCS (file control services), 11MRF I/O function codes, 11MRF MCR commands, 11MUG **RMS-11**. 11MRF SSTs (synchronous system traps), 11MRF task execution, 11MRF Ending debugging, DEBUG Enter a file name, RMSRF Entering commands, COMAN Entry mode, DEBUG Error, locating, DEBUG Error log file, printing, OPGUI Error logging, SYMAN Establishing a record stream, RMSRF Establishing spooled devices, SYMAN EVALUATE command, DEBUG Event flag services, SSREF Examining locations, DEBUG Exception conditions, DEBUG, SSREF Executable images, LINKR Executing a program, PRIMR Executive mode, SUMAR Exit handlers, COMAN, SSREF Extended attribute block, RMSRF purpose of chaining Extending file's allocated space, RMSRF

#### F

FCS (file control services) running under VAX/VMS, 11MRF Fields of UAF record, SYMAN File access block (FAB), RMSRF File ACP, QIO interface to, IOUGD File, creating a, PRIMR, RMSRF, RMSUG File, description of, PRIMR File header, INTRO, RMSRF File level operations, INTRO protection sharing File name and type, PRIMR, COMAN File naming macro instructions, RMSRF **\$ENTER \$PARSE \$REMOVE \$RENAME \$SEARCH** File organization, INTRO, RMSUG, RMSRF File processing macro instructions, RMSRF **\$CLOSE \$CREATE \$DISPLAY \$ERASE \$EXTEND \$OPEN** File protection, SUMAR Files, PRIMR, COMAN copying deleting displaying printing purging renaming Files-11 disk structure, SUMAR, SYMAN, RMSRF, COMAN Level 1 versus Level 2, SYMAN Files-11 volume, INTRO, COMAN File size, INTRO File specifications, COMAN, RMSUG, RMSRF defaults, COMAN logical name, COMAN File storage media, INTRO Fixed-length records, INTRO, RMSRF Format of MACRO source, MACRF Formatted ASCII output, SSREF FORTRAN coding, calling system services, SSREF LPA11-K driver, IOUGD FORTRAN input/output, PRIMR FORTRAN program, creating a, PRIMR FPP floating point instructions, emulation of, 11MRF Function codes, IOUGD card reader disk DMC11 line printer LPA11-K

Function codes (Cont.) magnetic tape mailbox terminal Functions of AUTHORIZE, SYMAN

#### G

General assembler directives, MACRF General utility procedures, RUNTM Global sections, SUMAR, SSREF Glossary, SUMAR, INTRO GO command, DEBUG

# Η

Handling files and volumes, OPGUI HELP command, PRIMR, COMAN Hibernation, SUMAR, SSREF Home block, INTRO, SYMAN, RMSRF

# I

I/O, IOUGD completion function codes function encoding function requests operations status block I/O drivers, how to write, DRIVR I/O function codes, RSX-11M, 11MRF I/O services. for device-independent I/O, SSREF for mailboxes and messages, SSREF I/O subfunction bits, RSX-11M, 11MRF Image creation, LINKR Image map, LINKR Images. executable, LINKR shareable, LINKR system, LINKR types of, SUMAR, LINKR Index file, SYMAN Indirect command files, 11MUG Indirect file processor, 11MUG Initializing stand-alone DSC, DSCUG Initializing the system, OPGUI, INSTA Initializing public volumes, SYMAN Initiating SOS, TEXED Initiating the debugger, DEBUG Installation procedures, INSTA Installing known images, SYMAN Interaction among processes, SYMAN

Interactive text editor (SOS), TEXED Interprocess communication, SUMAR, SSREF Interprocess control, SUMAR, SSREF Interrupting program execution, COMAN Issuing I/O requests, IOUGD

#### K

Kernel mode, SUMAR Keyboard layout, PRIMR Known images, installing, SYMAN

#### L

Laboratory Peripheral Accelerator (LPA11-K) driver, IOUGD Language support procedures, MODGD Languages, programming, SUMAR Lexical functions, COMAN LIBR, 11MRF Libraries, SUMAR, LINKR creating, COMAN, MODGD MACRO, COMAN modifying, COMAN, MODGD object module, COMAN program, COMAN run-time, RUNTM Library tables, LINKR Limitations in SOS, TEXED Limits, system resources, SYMAN Line printer driver, IOUGD LINK command, LINKR format qualifiers Linker, LINKR functions operation overview Linking object modules, PRIMR, LINKR, MACUG Local event flags, SUMAR Locating a record, RMSRF Logging into MCR, 11MUG Logical I/O, IOUGD Logical name, default process, COMAN, **RMSUG** Logical name translation, COMAN, RMSUG, SSREF Logical names, SUMAR, COMAN, RMSUG, RMSRF, SSREF Logical name services, SSREF Logical names in commands, PRIMR, COMAN, RMSUG Logical names used in RSX-11M images, 11MUG

Logical name tables, COMAN, SSREF Login procedure, PRIMR, COMAN Logout procedure, PRIMR, COMAN LPA11-K driver, IOUGD

#### М

MACRO coding, SSREF \$name\_G form \$name\_S form calling system services MACRO direct assignment statement, MACRF MACRO directives, MACRF MACRO facilities, MACRF MACRO input/output, PRIMR MACRO libraries, COMAN MACRO program development, PRIMR, MACUG MACRO programming, MACRF addressing modes binary operators character set expressions statement format symbols terms unary operators Magnetic tape. copying files to and from, COMAN driver, IOUGD QIO functions, IOUGD Mailbox driver, IOUGD Mailbox message format, IOUGD Mailboxes, SUMAR, SSREF Manipulate files. commands to, PRIMR, COMAN Map, image, LINKR Mapping RSX-11M device names, 11MUG, 11MRF Mathematical procedures, RUNTM MCR command interpreter, 11MUG MCR command language, 11MUG MCR command syntax, 11MUG MCR directives, 11MUG MCR utilities under VAX/VMS, 11MUG Memory management, SUMAR Memory management services, SSREF Microcode loading routines (LPA11-K), IOUGD Modes, SUMAR, SSREF executive kernel supervisor user Modifying locations, DEBUG Modular procedures, MODGD

Modular programming, LINKR, MODGD Monitoring system activity, OPGUI Monitoring system status, OPGUI Mounting public volumes, SYMAN, OPGUI Mounting volumes on devices, COMAN

#### Ν

Name block, *RMSRF* Non-file structured operations, *RMSRF* 

# 0

Object module libraries, COMAN Obtaining attributes of a file, RMSRF Opcode tracing, DEBUG Opening an existing file, RMSRF Operating procedures, VAX/VMS, OPGUI Operator commands, OPGUI Operator, duties of, OPGUI Operator intervention, COMAN Operator's log file, SYMAN Operator's log file, printing the, OPGUI Operator's notes, OPGUI Operator's terminal, OPGUI **OPTIONS** file, LINKR creating an specifying an using an /OPTIONS file qualifier, LINKR Options of AUTHORIZE, SYMAN

#### Р

Paging, SUMAR Parse a file name string, RMSRF Pathnames, DEBUG Performing block I/O, RMSRF Permanent global sections, creating, SYMAN. SSREF Physical I/O, IOUGD Position independent code, LINKR, MACUG Positioning to a block, RMSRF Positioning to a first record, RMSRF Printing files, PRIMR, COMAN Printing the error log file, OPGUI Printing the operator's log file, OPGUI Print job, terminating a, OPGUI, COMAN Print queues, SYMAN creating deleting starting stopping Priority, user's, SYMAN Privileges, COMAN, SYMAN

Private sections, SSREF Process, SUMAR, SSREF control definition mapping priorities scheduling virtual address space Process control services, SSREF Process, create, SSREF, COMAN Process, hardware definition, SUMAR Processing levels, INTRO Processing records in a file, INTRO sequentially relatively Process permanent files, RMSUG, RMSRF, COMAN Process-wide resource allocation procedures, **RUNTM** Program libraries, COMAN Programming command procedures, PRIMR, COMAN Programming languages, SUMAR Programming with VAX/VMS, COMAN Program section attributes, LINKR, MACRF Program sections, LINKR, MACRF Prompting, PRIMR, COMAN Protection, disk and tape volume, **COMAN** Protection of data structures and devices, SYMAN PLS, DEBUG Public volumes, SYMAN, OPGUI backing up initializing mounting

#### Q

QIO functions, *IOUGD* ACP disk magnetic tape QIO interface to file ACP, *IOUGD* QIO operations, *IOUGD* Quotas, SYMAN, SSREF

# R

Real mailbox, *IOUGD* Record, *INTRO* buffering characteristics formats

Record (Cont.) locking storage structures (buckets) Record access block (RAB), RMSRF Record access mode, INTRO, RMSUG, RMSR F Record access mode switching, INTRO Record level operations, INTRO asynchronous synchronous Record management services (RMS), INTRO. RMSRF. RMSUG Record operation performance, RMSRF Record processing macro instructions, RMSRF **\$CONNECT \$DELETE \$DISCONNECT** \$FIND **\$FLUSH \$FREE \$GET \$NXTVOL \$PUT \$RELEASE \$REWIND \$TRUNCATE \$UPDATE \$WAIT** Records in accounting file, SYMAN References and symbols, SUMAR, LINKR Remove a file name, RMSRF Rename a file, RMSRF Renaming files, PRIMR, COMAN Reporting software problems, SYMAN RESCOM, VAX/VMS support of, 11MRF RESLIB, VAX/VMS support of, 11MRF Resource quotas, SSREF, COMAN Restarting the system, OPGUI Restrictions in SOS, TEXED Retrieving a record, RMSRF RMS macro instructions, RMSRF **\$CLOSE \$CONNECT \$CREATE \$DELETE \$DISCONNECT \$DISPLAY \$ENTER \$ERASE \$EXTEND** \$FIND **\$FLUSH \$FREE** 

**RMS** macro instructions (Cont.) **\$GET \$NXTVOL \$OPEN \$PARSE \$PUT \$READ \$RELEASE \$REMOVE \$RENAME \$REWIND \$SEARCH \$SPACE \$TRUNCATE \$UPDATE \$WAIT \$WRITE** RSX-11M device assignment, 11MRF RSX-11M device name mapping, 11MRF RSX-11M device names, mapping to VAX/VMS. 11MUG **RSX-11M** directives, emulation of, 11MRF RSX-11M, emulation of, 11MRF **RSX-11M** images, installation of, 11MUG running of. 11MUG RSX-11M images, termination of, 11MRF RSX-11M indirect command files used for RSX-11M system generation, 11MUG RSX-11M I/O function codes, VAX/VMS conversion of, 11MRF RSX-11M libraries and common areas. VAX/VMS support of, 11MRF RSX-11M program development tools under VAX/VMS, 11MUG RSX-11M running under VAX/VMS, 11MUG RSX-11M shareable areas, VAX/VMS support of, 11MRF RSX-11M system generation, VAX/VMS support of, 11MUG RSX-11M task execution under VAX/VMS, 11MRF RSX-11M Version 3.1, VAX/VMS compatibility with, 11MRF Rules for entering, COMAN character string data commands dates and time file specifications numeric values qualifiers

Rules for forming expressions, COMAN Rules for specifying, COMAN arithmetic operations lexical functions Running SLP, TEXED RUN command, COMAN create process execute image Run-time control block initialization, RMSRF Run-time library, RUNTM capabilities of general purpose procedures of naming conventions organization of summary of entry points Run-time processing interface, RMSRF

#### S

Save World (W) command, TEXED Search for a file name, RMSRF Sections, SSREF Setting up a system account, SYMAN Shareable areas (RSX-11M), VAX/VMS support of 11MRF Shareable images, LINKR, MACUG Sharing, SUMAR Showing calls, DEBUG Shutting down a VAX/VMS system, OPGUI Signaling procedures, RUNTM SLP, TEXED audit trail command features command file input files error messages operators output files qualifiers using SOS, TEXED commands control characters current line position defaults error messages initiating limitations line numbers modes of operation page numbers

SOS (Cont.) ranges restrictions shorthand characters temporary files terminating Special SOS characters, TEXED Special characters, debugger, DEBUG Specifying an OPTIONS file, LINKR Spooled device, ACP functions for, IOUGD Spooled devices, establishing, SYMAN Spooling, SYMAN SSTs (synchronous system traps), emulation under VAX/VMS, 11MRF Stall for I/O completion, RMSRF Stand-alone DSC, DSCUG initiating terminating Starting debugging, DEBUG Starting up a VAX/VMS system, INSTA, OPGUI Start-up file, site-specific, SYMAN Status returns, IOUGD, SSREF STEP command, DEBUG STORE macro instruction, RMSRF Subprocesses, SUMAR, SSREF Summary of commands, COMAN Summary of SOS functions, TEXED Supervisor mode, SUMAR Swapping, SUMAR into balance set out of balance set Switches, SOS, TEXED SY, 11MUG Symbolic debugger, SUMAR, DEBUG Symbolic reference, DEBUG Symbols and references, LINKR Symbols, use of RSX-11M indirect command files, COMAN, 11MUG Symbol table, debugger, LINKR, DEBUG, MACRF, MACUG global, LINKR, MACRF Symbol types, global, LINKR, DEBUG, MACRF local, LINKR, DEBUG, MACRF permanent, DEBUG universal, LINKR Syntax, SOS, TEXED System, INSTA, OPGUI backup of VAX/VMS booting a VAX/VMS

System (Cont.) initializing a VAX/VMS restarting a VAX/VMS shutting down a VAX/VMS starting up a VAX/VMS System account, SYMAN setting up a using a System default logical names, PRIMR, COMAN System generation, RSX-11M/S, 11MUG System images, LINKR System logical names, assigning, SYMAN System messages, COMAN System resource limits, SYMAN System services, SSREF asynchronous system traps (AST) change mode conditional handling event flags input/output logical name memory management process control timer and time conversion System services descriptions, SSREF System services, how to use, SSREF System services, use of by library procedures, MODGD System services, used in emulation of RSX-11M directives, 11MRF

#### Т

Tapes, COMAN initializing reading writing Tape volume protection, COMAN Task builder switches, 11MUG Tasks (RSX-11M), VAX/VMS support of, 11MUG Temporary defaults, COMAN Temporary files, SOS, TEXED Tending the card reader, OPGUI Terminal characteristics, COMAN Terminal driver, IOUGD Terminal function codes, IOUGD Terminal function keys, COMAN Terminal/mailbox interaction, IOUGD Terminating a print job, OPGUI Terminating a record stream, RMSRF Terminating file processing, RMSRF

Terminating SOS, TEXED Terminating stand-alone DSC, DSCUG Terminating the debugger, DEBUG Text editing, TEXED Text editor, TEXED batch (SLP) interactive (SOS) TI, 11MUG Timer and time conversion services, SSREF Tracepoints, DEBUG Tracing opcodes, DEBUG Transfer to memory, RMSRF Truncating a sequential file, RMSRF Turning off spooling, SYMAN Type-ahead buffer, COMAN Types of images, SUMAR, LINKR

#### U

UAF, SYMAN changing the creating the fields of initial default value of initial system management account record of Unlocking a record, RMSRF Updating an existing record, RMSRF Updating source files with SLP, TEXED User authorization file, SYMAN User control blocks, RMSRF, RMSUG User control block macros, RMSRF, RMSUG **\$FAB** \$NAM \$RAB \$XAB \$xxx\_STORE User identification code (UIC), SUMAR, COMAN, SYMAN User mode, SUMAR User's priority, SYMAN Using a system of accounts, SYMAN Using an OPTIONS file, LINKR Using disk volumes, COMAN Using SLP, TEXED Using SOS, PRIMR, TEXED Using SOS efficiently, TEXED Using system services, SSREF Using tape volumes, COMAN Using the editor, PRIMR

Using user authorization program, SYMAN Using VAX-11 MACRO, MACUG

#### V

Variable-length records, INTRO VAX-11/780 compatibility mode instruction set. 11MRF VAX-11 common run-time library, capabilities of, RUNTM VAX-11 disk save and compress, DSCUG VAX-11 Linker, LINKR VAX-11 MACRO assembler, MACRF, MACUG VAX-11 object language, LINKR VAX-11 record management services (RMS), INTRO, RMSRF, RMSUG VAX-11 RMS, calling sequence, RMSRF description, INTRO, RMSRF functions, RMSRF program interface, RMSRF run-time operation, RMSRF statement conventions, RMSRF using, RMSUG VAX-11 RMS macro instructions, RMSRF, RMSUG VAX-11/RSX-11M compatibility, 11MRF VAX-11 software installation procedures, **INSTA** VAX-11 symbolic debugger, DEBUG VAX-11 text editors, TEXED VAX/VMS input/output, SUMAR, IOUGD, SSREF VAX/VMS operator procedures, OPGUI VERIFY (VFY) command, OPGUI Virtual I/O, IOUGD Virtual memory, VAX/VMS, SUMAR Volume initialization, COMAN Volume sets, COMAN

#### W

Watchpoints, DEBUG Working set, SUMAR, SSREF World, Save (W) command, TEXED Wraparound, TEXED Write mailbox, IOUGD Writing a file onto disk, PRIMR Writing a record to a file, RMSRF Writing out modified I/O buffers, RMSRF Writing to a file, RMSRF

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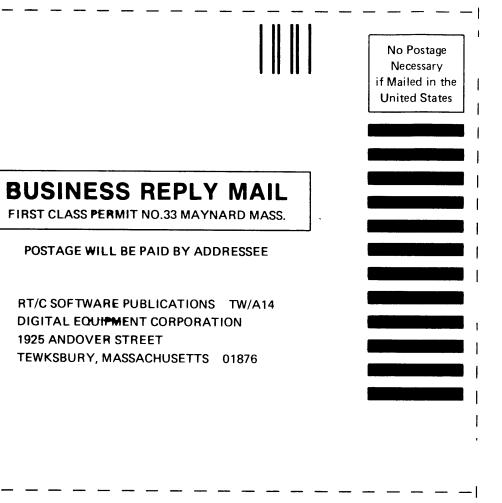
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Do Not Tear - Fold Here and Tape





Do Not Tear - Fold Here

Cut'Along Detted Line

1

# digital

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