

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:

This document has been revised. It

supersedes AA-D016A-TE.

OPERATING SYSTEM AND VERSION:

VAX/VMS V1.5

SOFTWARE VERSION:

Not applicable

To order additional copies of this document, contact the Software Distribution Center, Digital Equipment Corporation, Maynard, Massachusetts 01754

First Printing, August 1978 Revised, February 1979

The information in this document is subject to change without notice and should not be construed as a commitment by Digital Equipment Corporation. Digital Equipment Corporation assumes no responsibility for any errors that may appear in this document.

The software described in this document is furnished under a license and may only be used or copied in accordance with the terms of such license.

No responsibility is assumed for the use or reliability of software on equipment that is not supplied by DIGITAL or its affiliated companies.

Copyright (C) 1978, 1979 by Digital Equipment Corporation

The postage-prepaid READER'S COMMENTS form on the last page of this document requests the user's critical evaluation to assist us in preparing future documentation.

The following are trademarks of Digital Equipment Corporation:

MASSBUS DECsystem-10 DIGITAL **OMNIBUS DECtape** DEC OS/8 **PDP** DIBOL **EDUSYSTEM** PHA **DECUS RSTS** FLIP CHIP **UNIBUS** COMPUTER LABS **FOCAL RSX INDAC TYPESET-8** COMTEX TYPESET-11 LAB-8 DDT TMS-11 DECSYSTEM-20 **DECCOMM** ITPS-10 ASSIST-11 RTS-8 SBI **VMS** VAX **PDT DECnet IAS** TRAX **DATATRIEVE**

CONTENTS

		Page
1.0	PREFACE	. v
1.0	INTRODUCTION	. 1
2.0	SYSTEM INSTALLATION	. 1
3.0	HOW THE DOCUMENTS ARE ORGANIZED	. 1
4.0	VAX-11 SOFTWARE DOCUMENT DESCRIPTION	. 4
4.1	VAX-11 Information Directory	. 4
4.2	VAX/VMS Summary Description	. 4
4.3	VAX/VMS Primer	. 5
4.4	VAX/VMS Release Notes	. 5
4.5	VAX-11 Software Installation Guide	. 5
4.6	VAX/VMS System Services Reference Manual	. 5
4.7	VAX/VMS Command Language User's Guide	. 5
4.8	VAX-11 Linker Reference Manual	. 5
4.9	VAX-11 Symbolic Debugger Reference Manual	. 5
4.10	VAX-11/RSX-11M Programmer's Reference Manual	. 5
4.11	VAX-11/RSX-11M User's Guide	. 5
4.12	VAX-11 MACRO Language Reference Manual	. 5
4.13	VAX-11 MACRO User's Guide	. 5
4.14	VAX-11 Common Run-Time Procedure Library Reference Manual	. 5
4.15	VAX-11 Guide to Creating Modular Library Procedures	. 6
4.16	VAX-11 Text Editing Reference Manual	6
4.17	VAX/VMS Operator's Guide	6
4.18	VAX/VMS System Manager's Guide	6
4.19	VAX/VMS System Messages and Recovery Procedures Manual	6
4.20	VAX/VMS UETP User's Guide	6
4.21	VAX-11 Disk Save and Compress User's Guide	6
4.22	VAX/VMS I/O User's Guide	6
4.23	VAX/VMS Guide to Writing a Device Driver	6
4.24	Introduction to VAX-11 Record Management Services	6
4.25	VAX-11 Record Management Services Reference Manual	6
4.26	VAX-11 Record Management Services User's Guide	7
4.27	IAS/RSX-11M RMS-11 MACRO Programmer's Reference Manual	7
4.28	Introduction to RMS-11	7
4.29	RSX-11M RMS-11 V1.5 Utilities User's Guide	7
4.30	VAX-11 SORT User's Guide	7
4.31	PDP-11 SORT Reference Manual	7
4.32	VAX-11 FORTRAN IV-PLUS Language Reference Manual	7
4.33	VAX-11 FORTRAN IV-PLUS User's Guide	7
4.34	PDP-11 FORTRAN Language Reference Manual and Update	•
	Notice No. 1	8
4.35	IAS/RSX FORTRAN IV User's Guide	8
4.36	VAX-11 COBOL-74 Language Reference Manual	8
4.37	VAX-11 COBOL-74 User's Guide	8
4.38	PDP-11 COBOL Language Reference Manual	8
4.39	PDP-11 COBOL User's Guide	8
		U

		Page
4.40	PDP-11 COBOL Pocket Guide	
4.41	PDP-11 BASIC-PLUS-2 Language Reference Manual	8
4.42	BASIC-PLUS-2 RSX-11M/IAS User's Guide	
4.43	DECnet-VAX System Manager's Guide	8
4.44	DECnet-VAX User's Guide	9
4.45	User's Guide to DATATRIEVE-11	9
4.46	BLISS-32 Language Guide	
4.47	VAX-11 BLISS-32 User's Guide	
4.48	BLISS Pocket Guide	9
5.0	TOPICAL INDEX	, 9

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.

Table 1 VAX-11 Software Documentation

T				Aud	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	X	X	X	X
	VAX/VMS Primer	AA-D030A-TE	X	Х	Х	X
	VAX/VMS Release Notes	AA-D015B-TE	X	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	Х	X	x	X
Reference	Update Notice No. 1	AD-D023A-T1	х	X	X	X
	VAX-11 Linker Reference Manual	AA-D019A-TE		X	X	X
	VAX-11 Symbolic Debugger Reference Manual	AA-D026A-TE		X	Х	
VOLUME 1C System Reference	VAX-11/RSX-11M Programmer's Reference Manual	AA-D020A-TE		Х	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			Х	
VOLUME 2A System Procedures	VAX-11 Common Run-Time Procedure Library Reference Manual	AA-D036A-TE		X	X	
	VAX-11 Guide to Creating Modular Library Procedures	AA-H500A-TI	3	X	X	
	VAX-11 Text Editing Reference Manual	AA-D029A-TI	E X	X	X	X
VOLUME 2B	VAX/VMS Operator's Guide	AA-D025A-TI	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	E X	X	X	X
	VAX/VMS UETP User's Guide	AA-D643A-T	E X			X

Table 1 (Cont.) VAX-11 Software Documentation

				Aud	ience	
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	Х	X	Х	X
VOLUME 3 VAX/VMS	VAX/VMS I/O User's Guide and	AA-D028A-TE			х	
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	X	
	VAX-11 Record Management Services Reference Manual	AA-D031B-TE		X	X	
	VAX-11 Record Management Services User's Guide	AA-D781B-TE		X	Х	
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		X	X	
	RSX-11M RMS-11 V1.5 Utilities User's Guide	AA-D083A-TC		X	X	
	VAX-11 SORT User's Guide	AA-D113A-TE	X	X	X	X
	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		Х		
FORTRAN IV	Update Notice No. 1*	DEC-11- LFLRA-C-DN1		X		
	IAS/RSX-11 FORTRAN IV User's Guide*	DEC-11- LMFUA-D-D		X		
VOLUME 5C *Optional	VAX-11 COBOL-74 Language Reference Manual*	AA-C985A-TE		Х		
Software COBOL	VAX-11 COBOL-74 User's Guide*	AA-C986A-TE		X		
	PDP-11 COBOL Language Reference Manual*	AA-1749E-TC		X		
	PDP-11 COBOL User's Guide*	AA-1757D-TC		X		
	PDP-11 COBOL Pocket Guide*	AA-1750D-TC		X		

Table 1 (Cont.) VAX-11 Software Documentation

		· · · · · · · · · · · · · · · · · · ·		Au	dience	
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*	АА-Н074А-ТС		х		
BASIC- PLUS-2	BASIC-PLUS-2 RSX-11M/ IAS User's Guide*	AA-0157B-TC		Х		
VOLUME 5E *Optional Software	DECnet-VAX System Manager's Guide* and	AA-D902A-TE		х	Х	х
DECnet	Update Notice No. 1*	AD-D902A-T1		X	X	X
	DECnet-VAX User's Guide* and	AA-D901A-TE		х	Х	
	Update Notice No. 1*	AD-D901A-T1		X	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			Х	
Software BLISS	VAX-11 BLISS-32 User's Guide*	АА-Н322А-ТЕ			X	Х
	BLISS Pocket Guide*	AV-H289A-TE			X	

^{*}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, task-building, 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 Manual RMSUG - VAX-11 Record Management Services User's Guide

RUNTM - VAX-11 Common Run-Time Procedure Library Reference Manual

SSREF - VAX/VMS System Services Reference Manual

SUMAR - VAX/VMS Summary Description SYMAN - VAX/VMS System Manager's Guide TEXED - VAX-11 Text Editing Reference Manual

11MRF - VAX-11/RSX-11M Programmer's Reference Manual

11MUG - VAX-11 RSX-11M User's Guide

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

œ.	D1 1
\$	Block,
MEAD DMGDE	bootstrap, INTRO
\$FAB macro instruction, RMSRF	home, INTRO, SYMAN
\$INPUT macro format, IOUGD, SSREF	Block I/O macro instructions, RMSRF
\$NAM macro instruction, RMSRF	\$READ
\$OUTPUT macro format, IOUGD, SSREF	\$SPACE
\$QIO macro format, IOUGD, SSREF	\$WRITE
\$QIOW macro format, IOUGD, SSREF	Block input/output, INTRO
\$RAB macro instruction, RMSRF	Booting the system, OPGUI, INSTA
\$XAB macro instruction, RMSRF	Bootstrap block, INTRO
	Breakpoints, DEBUG
Α	Buckets, INTRO, RMSRF
Abbreviating commands, PRIMR	C
Accessing devices in batch jobs, COMAN	·
Accessing the system, PRIMR, COMAN	Calling routines, DEBUG
Access modes, SUMAR, SSREF	Calling run-time library procedures, RUNTM
Accounting file, SYMAN, SSREF	Calling system services, SSREF
Accounting for system resources, SYMAN	FORTRAN coding
ACP functions for spooled device, IOUGD	MACRO coding
ACP QIO functions, IOUGD	Calls, showing, DEBUG
Allocation, device, COMAN, SSREF	Card reader batch, COMAN
Allocation, virtual memory, SUMAR	Card reader driver, IOUGD
Analog to digital converter (LPA11-K), <i>IOUGD</i>	Channel assignments, IOUGD, SSREF
Ancillary control process (ACP), IOUGD	Change mode services, SSREF
Assembler directives, general, MACRF	Changing defaults, PRIMR, COMAN
Assembling and compiling programs, PRIMR	Changing the file attributes, RMSRF
Assigning system logical names, SYMAN	Changing the UAF, SYMAN
Assignment statements, PRIMR, COMAN	CL, 11MUG
Asynchronous system traps (AST), SUMAR,	CO, 11MUG
IOUGD, SSREF	Command descriptions, COMAN
Asynchronous system trap services, SSREF	=(assignment statement)
AUTHORIZE program, SYMAN	(execute procedure)
AUTHORIZE program, STMAN	ALLOCATE
В	APPEND
В	ASSIGN
Backing up files and volumes, SYMAN, OPGUI	BASIC
Balance set, SUMAR, SSREF	BLISS
Batch job processing, PRIMR, COMAN	CANCEL
Batch job, terminating a, OPGUI	CLOSE
Batch queue, COMAN	COBOL/C74
deleting jobs in	COBOL/RSX11
submitting jobs in	CONTINUE
Batch queues, SYMAN	COPY
creating	CREATE
deleting	DEALLOCATE
starting	DEASSIGN
stopping	DEBUG
Batch text editor (SLP), TEXED	DECK
Basic disk concepts, INTRO	DEFINE
Basic tape concepts, INTRO	DELETE
Dasic tape concepts, INTAO	DEFEIR

Command descriptions (Cont.)	Command, operator (Cont.)
Command descriptions (Cont.)	MCR DSC1
DELETE/ENTRY	
DELETE/SYMBOL	MCR DSC2
DEPOSIT	MCR VFY1
DIFFERENCES	MCR VFY2
DIRECTORY	REPLY
DISMOUNT	RUN SYS\$SYSTEM:INSTALL
DUMP	RUN SYS\$SYSTEM:SYE
EDIT	SET ACCOUNTING
EOD	SET DEVICE
EXAMINE	SET LOGINS
EXIT	SET PRINTER
FORTRAN	SET PROTECTION/DEVICE
GOTO	SET TERMINAL/PERMANENT
HELP	SET UIC
IF	SHOW TERMINAL/PERMANENT
INITIALIZE	START/QUEUE
INQUIRE	STOP/ABORT
JOB	STOP/ENTRY
LIBRARY	STOP/QUEUE
LINK	STOP/REQUEUE
LINK/RSX	Command procedure, COMAN
LOGOUT	creating
MACRO	commands for controlling
MCR	executing
MOUNT	lexical functions
ON	reading and writing files using a
OPEN	using symbols in
PASSWORD	Command procedures, PRIMR, COMAN
PRINT	Command procedures, PRIMR
PURGE	Commands, debugger, DEBUG
READ	Commands for,
RENAME	AUTHORIZE, SYMAN batch jobs, COMAN
REQUEST	
RUN SET	command procedures, COMAN
	device handling, COMAN
SHOW	file manipulation, COMAN
SORT CONTINUES	program control, COMAN
SORT/RSX11	program development, COMAN
STOP	terminal communications, COMAN
SUBMIT	terminal control, COMAN
SYNCHRONIZE	Command syntax, MCR, 11MUG
TYPE	Common event flags, SUMAR, SSREF
UNLOCK	COMMON option,
WAIT	VAX/VMS support of, 11MRF
WRITE	Compatibility mode, SUMAR
Command environment, COMAN	Compatibility mode instruction set,
Command, operator, OPGUI	VAX-11/780, <i>11MRF</i>
ASSIGN/MERGE	Compatibility with RSX-11M Version 3.1,
ASSIGN/QUEUE	11MRF
DEASSIGN/QUEUE	Compiling a program, PRIMR
DELETE/QUEUE	Completion status codes, RMSRF
INITIALIZE/QUEUE	Condition handlers, SUMAR, COMAN, SSREF
MCR BAD	Condition handling procedures, RUNTM

Condition handling services, SSREF	Debugger special characters, DEBUG
Continue processing on next volume, RMSRF	Debugger symbol table, DEBUG
Control block usage, RMSRF	Debugging,
Control characters, SOS, TEXED	symbolic, COMAN, DEBUG
Control (CTRL) keys, COMAN	with virtual addresses, COMAN, DEBUG
Control routines, RMSRF	Default logical names, COMAN, RMSUG
halt I/O and close files	Deleting a file, PRIMR, RMSRF, COMAN
set default directory	Deleting a record, RMSRF
set default file protection	Depositing data into locations, DEBUG
Controlling batch queues, OPGUI	Detached processes, SUMAR, SSREF, COMAN
Controlling print queues, OPGUI	Device allocation, COMAN, IOUGD, SSREF
Conversion of RSX-11M directives, 11MRF	Device driver, how to write, DRIVR
Conversion of RSX-11M I/O function codes,	Device initialization routines (LPA11-K), IOUGL
11MRF	Device name mapping for
Creating a file, PRIMR, RMSRF, RMSUG	RSX-11M images, 11MUG, 11MRF
Creating an OPTIONS file, LINKR	Device names, COMAN, RMSUG
Creating a program, PRIMR	Devices, PRIMR
Creating permanent global sections, SYMAN,	Digital I/O register (LPA11-K), IOUGD
SSREF	Digital to analog converter (LPA11-K), IOUGD
Creating processes, COMAN, SSREF	Directories, RMSUG, COMAN
Creating the UAF, SYMAN	hierarchies, COMAN
Cross reference, LINKR, MACUG, MACRF	Disk,
Copying files, PRIMR, COMAN	advantages of, INTRO
	concepts of, INTRO
D	copy files to and from, COMAN
	driver, IOUGD
Data acquisition devices (LPA11-K), IOUGD	function codes, IOUGD
Data structures and devices,	QIO functions, IOUGD
protection of, SYMAN	save and compress (DSC), DSCUG
DCL commands, summary of, COMAN	volume protection, COMAN
Debugger commands, DEBUG	Displaying files, PRIMR
Debugger facilities, DEBUG	Display mode, <i>DEBUG</i>
Debugger modes, DEBUG	DISPLAY utility program, SYMAN
ASCII	commands of
context	DCL command line
controlling	output from
global	Directives, 11MRF
hexadecimal	RSX-11M executive
initializing	MCR (indirect file)
instruction	Directory listing, PRIMR
length	Directories, RMSUG
NOASCII	DMC11 driver, IOUGD
noglobal	Drivers, IOUGD
noinstruction	card reader
nosymbolic	disk
noscope	DMC11
octal	line printer
overriding	LPA11-K
pathname search	magnetic tape
radix	mailbox
reporting	terminal
restoring	Drivers, how to write, DRIVR
scope symbolic	DSC, DSCUG
symbolic	command format

DSC (Cont.)	File ACP, QIO interface to, IOUGD
devices	File, creating a, PRIMR, RMSRF, RMSUG
error messages	File, description of, PRIMR
operations	File header, INTRO, RMSRF
options	File level operations, INTRO
qualifiers	protection
Duties of operator, OPGUI	sharing
Duties of system manager, SYMAN	File name and type, PRIMR, COMAN
DSW return codes,	File naming macro instructions, RMSRF
VAX/VMS emulation of, 11MRF	\$ENTER
,	\$PARSE
E	\$REMOVE
	\$RENAME
Editing an existing file, PRIMR	\$SEARCH
Editor, using the, PRIMR	File organization, INTRO, RMSUG, RMSRF
Emulation of FPP floating point instructions,	File processing macro instructions, RMSRF
11MRF	\$CLOSE
Emulation of RSX-11M	\$CREATE
device and LUN assignments, 11MRF	\$DISPLAY
directives, 11MRF	\$ERASE
DSW return codes, 11MRF	\$EXTEND
FCS (file control services), 11MRF	SOPEN
I/O function codes, 11MRF	File protection, SUMAR
MCR commands, 11MUG	Files, PRIMR, COMAN
RMS-11, <i>11MRF</i>	copying
SSTs (synchronous system traps), 11MRF	deleting
task execution, 11MRF	displaying
Ending debugging, DEBUG	printing
Enter a file name, RMSRF	purging
Entering commands, COMAN	renaming
Entry mode, <i>DEBUG</i>	Files-11 disk structure, SUMAR, SYMAN,
Error, locating, DEBUG	RMSRF, COMAN
Error log file, printing, OPGUI	Level 1 versus Level 2, SYMAN
Error logging, SYMAN	Files-11 volume, INTRO, COMAN
Establishing a record stream, RMSRF	File size, INTRO
	File specifications, COMAN, RMSUG, RMSRI
Establishing spooled devices, SYMAN EVALUATE command, DEBUG	defaults, COMAN
	logical name, COMAN
Event flag services, SSREF Event flag services, DEPLIC	File storage media, <i>INTRO</i>
Examining locations, DEBUG	Fixed-length records, INTRO, RMSRF
Exception conditions, DEBUG, SSREF	
Executable images, LINKR	Format of MACRO source, MACRF Formatted ASCII output, SSREF
Executing a program, PRIMR	
Executive mode, SUMAR	FORTRAN coding,
Exit handlers, COMAN, SSREF	calling system services, SSREF
Extended attribute block, RMSRF	LPA11-K driver, IOUGD
purpose of	FORTRAN input/output, PRIMR
chaining	FORTRAN program, creating a, PRIMR
Extending file's allocated space, RMSRF	FPP floating point instructions, emulation of,
T.	11MRF
F	Function codes, IOUGD
F00 (61	card reader
FCS (file control services) running under	disk
VAX/VMS, 11MRF	DMC11
Fields of UAF record, SYMAN File access block (FAR), RMSRF	line printer I PA I 1-K
Pue acress mock LPABI K WAK P	LEALIER

Interactive text editor (SOS), TEXED Function codes (Cont.) magnetic tape Interprocess communication, SUMAR, SSREF mailbox Interprocess control, SUMAR, SSREF Interrupting program execution, COMAN terminal Issuing I/O requests, IOUGD Functions of AUTHORIZE, SYMAN G K General assembler directives, MACRF Kernel mode, SUMAR Keyboard layout, PRIMR General utility procedures, RUNTM Global sections, SUMAR, SSREF Known images, installing, SYMAN Glossary, SUMAR, INTRO L GO command, DEBUG Laboratory Peripheral Accelerator (LPA11-K) Η driver, IOUGD Handling files and volumes, OPGUI Language support procedures, MODGD Languages, programming, SUMAR HELP command, PRIMR, COMAN Hibernation, SUMAR, SSREF Lexical functions, COMAN Home block, INTRO, SYMAN, RMSRF LIBR, 11MRF Libraries, SUMAR, LINKR I creating, COMAN, MODGD MACRO, COMAN modifying, COMAN, MODGD I/O, IOUGD object module, COMAN completion program, COMAN function codes run-time, RUNTM function encoding Library tables, LINKR function requests Limitations in SOS, TEXED operations Limits, system resources, SYMAN status block I/O drivers, how to write, DRIVR Line printer driver, IOUGD LINK command, LINKR I/O function codes, RSX-11M, 11MRF I/O services, format for device-independent I/O, SSREF qualifiers for mailboxes and messages, SSREF Linker, LINKR I/O subfunction bits, RSX-11M, 11MRF functions Image creation, LINKR operation Image map, LINKR overview Linking object modules, PRIMR, LINKR, MACUG Images. executable, LINKR Local event flags, SUMAR Locating a record, RMSRF shareable, LINKR system, LINKR Logging into MCR, 11MUG types of, SUMAR, LINKR Logical I/O, IOUGD Index file, SYMAN Logical name, default process, COMAN, **RMSUG** Indirect command files, 11MUG Logical name translation, COMAN, RMSUG, Indirect file processor, 11MUG Initializing stand-alone DSC, DSCUG *SSREF* Initializing the system, OPGUI, INSTA Logical names, SUMAR, COMAN, RMSUG, RMSRF, SSREF Initializing public volumes, SYMAN Logical name services, SSREF Initiating SOS, TEXED Logical names in commands, PRIMR, COMAN, Initiating the debugger, DEBUG Installation procedures, INSTA *RMSUG* Installing known images, SYMAN Logical names used in RSX-11M images,

Interaction among processes, SYMAN

11MUG

Logical name tables, COMAN, SSREF Login procedure, PRIMR, COMAN Logout procedure, PRIMR, COMAN LPA11-K driver, IOUGD	Modular programming, LINKR, MODGD Monitoring system activity, OPGUI Monitoring system status, OPGUI Mounting public volumes, SYMAN, OPGUI Mounting volumes on devices, COMAN
M	
MACRO coding, SSREF	N
\$name_G form	Name block, RMSRF
\$name_S form	Non-file structured operations, RMSRF
calling system services	
MACRO direct assignment statement, MACRF	0
MACRO directives, MACRF	
MACRO facilities, MACRF	Object module libraries, COMAN
MACRO input/output, PRIMR	Obtaining attributes of a file, RMSRF
MACRO libraries, COMAN	Opcode tracing, DEBUG
MACRO program development, PRIMR,	Opening an existing file, RMSRF
MACRO magnetica MACRE	Operating procedures, VAX/VMS, OPGUI
MACRO programming, MACRF	Operator duties of OPGUI
addressing modes	Operator, duties of, OPGUI
binary operators character set	Operator intervention, COMAN
expressions	Operator's log file, SYMAN Operator's log file, printing the, OPGUI
statement format	Operator's notes, OPGUI
symbols	Operator's terminal, OPGUI
terms	OPTIONS file, LINKR
unary operators	creating an
Magnetic tape,	specifying an
copying files to and from, COMAN	using an
driver, IOUGD	OPTIONS file qualifier, LINKR
QIO functions, IOUGD	Options of AUTHORIZE, SYMAN
Mailbox driver, IOUGD	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
Mailbox message format, IOUGD	P
Mailboxes, SUMAR, SSREF	
Manipulate files,	Paging, SUMAR
commands to, PRIMR, COMAN	Parse a file name string, RMSRF
Map, image, LINKR	Pathnames, DEBUG
Mapping RSX-11M device names, 11MUG,	Performing block I/O, RMSRF
11MRF	Permanent global sections, creating,
Mathematical procedures, RUNTM	SYMAN, SSREF
MCR command interpreter, 11MUG	Physical I/O, IOUGD
MCR command language, 11MUG	Position independent code, LINKR, MACUG
MCR command syntax, 11MUG	Positioning to a block, RMSRF
MCR directives, 11MUG	Positioning to a first record, RMSRF
MCR utilities under VAX/VMS, 11MUG	Printing files, PRIMR, COMAN
Memory management, SUMAR	Printing the error log file, OPGUI
Memory management services, SSREF	Printing the operator's log file, OPGUI
Microcode loading routines (LPA11-K), IOUGD	Print job, terminating a, OPGUI, COMAN
Modes, SUMAR, SSREF executive	Print queues, SYMAN
kernel	creating
supervisor	deleting
user	starting
Modifying locations, <i>DEBUG</i>	stopping Priority, user's, SYMAN
Modular procedures, MODGD	Privileges, COMAN, SYMAN
F F F	~ ~ · · · · · · · · · · · · · · · · · ·

Private sections, SSREF	Record (Cont.)		
Process, SUMAR, SSREF	locking		
control	storage structures (buckets)		
definition	Record access block (RAB), RMSRF		
mapping	Record access mode, INTRO, RMSUG,		
priorities	RMSRF		
scheduling	Record access mode switching, INTRO		
virtual address space	Record level operations, INTRO		
Process control services, SSREF	asynchronous		
Process, create, SSREF, COMAN	synchronous		
Process, hardware definition, SUMAR	Record management services (RMS),		
Processing levels, INTRO	INTRO, RMSRF, RMSUG		
Processing records in a file, <i>INTRO</i>	Record operation performance, RMSRF		
sequentially	Record processing macro instructions,		
relatively	RMSRF		
Process permanent files, RMSUG, RMSRF,	\$CONNECT		
	\$DELETE		
COMAN			
Process-wide resource allocation procedures,	\$DISCONNECT		
RUNTM	\$FIND		
Program libraries, COMAN	\$FLUSH		
Programming command procedures, PRIMR,	\$FREE		
COMAN	\$GET		
Programming languages, SUMAR	\$NXTVOL		
Programming with VAX/VMS, COMAN	\$PUT		
Program section attributes, LINKR, MACRF	\$RELEASE		
Program sections, LINKR, MACRF	\$REWIND		
Prompting, PRIMR, COMAN	\$TRUNCATE		
Protection, disk and tape volume,	\$UPDATE		
COMAN	\$WAIT		
Protection of data structures and devices,	Records in accounting file, SYMAN		
SYMAN	References and symbols, SUMAR, LINKR		
PLS, DEBUG	Remove a file name, RMSRF		
Public volumes, SYMAN, OPGUI	Rename a file, RMSRF		
backing up	Renaming files, PRIMR, COMAN		
initializing	Reporting software problems, SYMAN		
mounting	RESCOM, VAX/VMS support of, 11MRF		
	RESLIB, VAX/VMS support of, 11MRF		
Q	Resource quotas, SSREF, COMAN		
•	Restarting the system, OPGUI		
QIO functions, IOUGD	Restrictions in SOS, TEXED		
ACP	Retrieving a record, RMSRF		
disk	RMS macro instructions, RMSRF		
magnetic tape	\$CLOSE		
QIO interface to file ACP, <i>IOUGD</i>	\$CONNECT		
OIO operations, IOUGD	\$CREATE		
Quotas, SYMAN, SSREF	\$DELETE		
Quotas, 51 MAIV, 55KLI			
D	\$DISCONNECT		
R	\$DISPLAY		
Paul mailhan IOUCD	\$ENTER		
Real mailbox, IOUGD	\$ERASE		
Record, INTRO	\$EXTEND		
buffering	\$FIND		
characteristics	\$FLUSH		
formats	\$FREE		

RMS macro instructions (Cont.) \$GET \$NXTVOL \$OPEN \$PARSE \$PUT \$READ \$RELEASE \$REMOVE \$RENAME \$REWIND \$SEARCH	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
\$SPACE	general purpose procedures of
\$TRUNCATE	naming conventions
\$UPDATE	organization of
\$WAIT	summary of entry points
\$WRITE	Run-time processing interface, RMSRF
RSX-11M device assignment, 11MRF	~
RSX-11M device name mapping, 11MRF	S
RSX-11M device names,	C W 11 (W) 1 MEVED
mapping to VAX/VMS, 11MUG	Save World (W) command, TEXED
RSX-11M directives,	Search for a file name, RMSRF Sections, SSREF
emulation of, 11MRF RSX-11M, emulation of, 11MRF	Setting up a system account, SYMAN
RSX-11M, entulation of, 11MK1	Shareable areas (RSX-11M),
installation of, 11MUG	VAX/VMS support of, 11MRF
running of, 11MUG	Shareable images, LINKR, MACUG
RSX-11M images, termination of, 11MRF	Sharing, SUMAR
RSX-11M indirect command files used for	Showing calls, DEBUG
RSX-11M system generation, 11MUG	Shutting down a VAX/VMS system, OPGUI
RSX-11M I/O function codes,	Signaling procedures, RUNTM
VAX/VMS conversion of, 11MRF	SLP, TEXED
RSX-11M libraries and common areas,	audit trail
VAX/VMS support of, 11MRF	command features
RSX-11M program development tools under	command file
VAX/VMS, 11MUG	input files
RSX-11M running under VAX/VMS, 11MUG	error messages
RSX-11M shareable areas,	operators output files
VAX/VMS support of, 11MRF RSX-11M system generation,	qualifiers
VAX/VMS support of, 11MUG	using
RSX-11M task execution under VAX/VMS,	SOS, TEXED
11MRF	commands
RSX-11M Version 3.1, VAX/VMS	control characters
compatibility with, 11MRF	current line position
Rules for entering, COMAN	defaults
character string data	error messages
commands	initiating
dates and time	limitations
file specifications	line numbers
numeric values	modes of operation
qualifiers	page numbers

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
T
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 Using user authorization program, SYMAN Terminating stand-alone DSC, DSCUG Using VAX-11 MACRO, MACUG Terminating the debugger, DEBUG Text editing, TEXED Text editor, TEXED batch (SLP) Variable-length records, INTRO interactive (SOS) VAX-11/780 compatibility mode instruction TI, 11MUG set, 11MRF Timer and time conversion services, SSREF VAX-11 common run-time library, Tracepoints, DEBUG capabilities of, RUNTM Tracing opcodes, DEBUG VAX-11 disk save and compress, DSCUG Transfer to memory, RMSRF VAX-11 Linker, LINKR Truncating a sequential file, RMSRF VAX-11 MACRO assembler, MACRF, MACUG Turning off spooling, SYMAN VAX-11 object language, LINKR Type-ahead buffer, COMAN VAX-11 record management services (RMS), Types of images, SUMAR, LINKR INTRO, RMSRF, RMSUG VAX-11 RMS, calling sequence, RMSRF U description, INTRO, RMSRF functions, RMSRF UAF, SYMAN program interface, RMSRF changing the run-time operation, RMSRF creating the statement conventions, RMSRF fields of using, RMSUG initial default value of VAX-11 RMS macro instructions, RMSRF, initial system management account RMSUG record of VAX-11/RSX-11M compatibility, 11MRF Unlocking a record, RMSRF VAX-11 software installation procedures, Updating an existing record, RMSRF **INSTA** Updating source files with SLP, TEXED VAX-11 symbolic debugger, DEBUG User authorization file, SYMAN VAX-11 text editors, TEXED User control blocks, RMSRF, RMSUG VAX/VMS input/output, SUMAR, IOUGD. User control block macros, RMSRF, RMSUG **SSREF** \$FAB VAX/VMS operator procedures, OPGUI \$NAM VERIFY (VFY) command, OPGUI \$RAB Virtual I/O, IOUGD **\$XAB** Virtual memory, VAX/VMS, SUMAR \$xxx_STORE Volume initialization, COMAN User identification code (UIC), SUMAR, Volume sets, COMAN COMAN, SYMAN User mode, SUMAR W User's priority, SYMAN Using a system of accounts, SYMAN Watchpoints, DEBUG Using an OPTIONS file, LINKR Working set, SUMAR, SSREF Using disk volumes, COMAN World, Save (W) command, TEXED Using SLP, TEXED Wraparound, TEXED Using SOS, PRIMR, TEXED Write mailbox, IOUGD Using SOS efficiently, TEXED Writing a file onto disk, PRIMR Using system services, SSREF Writing a record to a file, RMSRF Using tape volumes, COMAN Writing out modified I/O buffers, RMSRF Using the editor, PRIMR Writing to a file, RMSRF

Country

READER'S COMMENTS

NOTE: This form is for document comments only. DIGITAL will use comments submitted on this form at the company's discretion. If you require a written reply and are eligible to receive one under Software Performance Report (SPR) service, submit your comments on an SPR form.

· 		
id you find	errors in this manual? If so, specify the erro	r and the page number.
		ly represent
lease indica	te the type of user/reader that you most near	ty represent.
	Assembly language programmer	
	Higher-level language programmer	
	Occasional programmer (experienced) User with little programming experience	
	Student programmer	
	Other (please specify)	
ame		_ Date
)rganization		
treet		
		State Zip Code
пу		or





No Postage Necessary if Mailed in the United States

BUSINESS REPLY MAIL

FIRST CLASS PERMIT NO.33 MAYNARD MASS.

POSTAGE WILL BE PAID BY ADDRESSEE

RT/C SOFTWARE PUBLICATIONS TW/A14 DIGITAL EQUIPMENT CORPORATION 1925 ANDOVER STREET TEWKSBURY, MASSACHUSETTS 01876

Do Not Tear - Fold Here

