May 1981

This document provides an introduction to the software document 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. An index to the key information in the document set is provided.

VAX–11
Information Directory and Index

Order No. AA-D016D-TE

READ THIS FIRST

SUPERSESSION/UPDATE INFORMATION: This revised document supersedes the VAX-11 Information Directory (Order No. AA-D016C-TE)

OPERATING SYSTEM AND VERSION: VAX/VMS V2.3

SOFTWARE VERSION: Not applicable

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Preface

The *VAX-11 Information Directory and Index* provides a brief description of each manual in the VAX/VMS document set and an index of major topics covered by the set. The purpose of this manual is to guide users to the manuals most suited to their needs.

This manual is divided into three sections:

- A note on system installation
- Synopses of all documents in the VAX/VMS document set and of VAX/VMS optional documents (as well as tables listing the title, order number, and suggested audience for each document)
- An index of major topics covered by the VAX/VMS document set

System Installation

As shipped, the VAX/VMS operating system is ready to run on your VAX-11 processor. You should install the system according to the procedure described in the software installation guide specific to your processor.

Before installing the system, however, read the *VAX/VMS Release Notes* thoroughly. This document contains important, updated information concerning errors and changes in the software and documentation. If you have a VAX-11/750, you should also read the *VAX-11/750 User's Notes*, which provide information about the VAX-11/750 that is not contained elsewhere in the document set.

To produce a system tailored to the particular hardware and software requirements of your facility, follow the guidelines described in the *VAX/VMS System Manager's Guide*.

VAX/VMS Document Descriptions

The VAX/VMS software distribution kit includes a software document set that provides programming and operation information for the VAX/VMS operating system. DIGITAL ships the complete software document set listed in Table 1 with each software system. Some of the documents listed in Table 2 are packaged with the document set; others must be ordered separately. Customers receive the optional documents listed in Table 3 when they purchase separate licenses for optional software products. All of the documents and document sets listed in this directory are available through separate order.

The manuals in the VAX/VMS software document set are organized into 10 volumes covering the following topics:

General Information

Command Language and System Messages

Program Development Tools

System Services and I/O

Run-Time Library

VAX-11 Record Management Services

RMS-11 Record Management Services

Compatibility Mode (RSX-11M)

System Programming

System Management and Operation

Each volume consists of one or more ring binders containing several manuals. Table 1 lists all the manuals contained in each volume as well as the order number and suggested audience for each. Table 2 lists the order number and suggested audience for other relevant documents not included in the ring binder set. Brief descriptions of the manuals follow the tables. For a more complete description of any manual, see its preface. The preface to each manual also lists pointers to other manuals containing related information.

Table 1: VAX/VMS Software Document Set

Volume	Title (Order Number)	Suggested Audience[1]			
		OP	AP	SP	SM
1	**General Information**				
	VAX-11 Information Directory and Index (AA-D016D-TE)	X	X	X	X
	VAX/VMS Summary Description and Glossary (AA-D022B-TE)	X	X	X	X
	VAX/VMS Primer (AA-D030B-TE)	X	X	X	X
	VAX/VMS Release Notes, Version 2.0 (AA-D015C-TE)	X	X	X	X
	VAX/VMS Release Notes, Version 2.1 (AA-K055A-TE)	X	X	X	X
	VAX/VMS Release Notes, Version 2.2 (AA-K760A-TE)	X	X	X	X
	VAX/VMS Release Notes, Version 2.3 (AA-L286A-TE)	X	X	X	X
	VAX-11/750 User's Notes[2] (AA-K435A-TE)	X	X	X	X

(continued on next page)

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

OP The *operator* is anyone who uses the VAX/VMS operating system directly.

AP The *application programmer* uses high-level languages to develop programs for user applications.

SP 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 processor and its peripheral devices.

SM The *system manager* is responsible for overall operation of the VAX/VMS system, from installing the system to overseeing its performance to supervising day-to-day operations.

These job titles are only loosely defined, but are useful for indicating the general audience for each document. In small installations, all tasks may be performed by a single person. 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 listed in Table 1.

2. The document set for the VAX-11/750 includes the *VAX-11/750 User's Notes*.

Table 1 (Cont.): VAX/VMS Software Document Set

Volume	Title (Order Number)	Suggested Audience			
		OP	AP	SP	SM
2A	**Command Language and System Messages**				
	VAX/VMS Command Language User's Guide (AA-D023B-TE) and Update Notice No. 1 (AD-D023B-T1)	X	X	X	X
	VAX/VMS Guide to Using Command Procedures (AA-H782A-TE)	X	X	X	X
2B	**Command Language and System Messages**				
	VAX/VMS System Messages and Recovery Procedures Manual (AA-D017B-TE)	X	X	X	X
3A	**Program Development Tools**				
	VAX-11 Text Editing Reference Manual (AA-D029B-TE)	X	X	X	X
	EDT Editor Manual (AA-J726A-TC)	X	X	X	X
	VAX-11 Utilities Reference Manual (AA-H781A-TE) and Update Notice No. 1 (AD-H781A-T1)	X	X	X	X
	VAX-11 SORT/MERGE User's Guide (AA-D113B-TE)		X	X	
	PDP-11 SORT Reference Manual (AA-3341C-TC)		X	X	
3B	**Program Development Tools**				
	VAX-11 MACRO User's Guide (AA-D033C-TE) and Update Notice No. 1 (AD-D033C-T1)		X	X	
	VAX-11 MACRO Language Reference Manual (AA-D032C-TE)		X	X	
	VAX-11 Linker Reference Manual (AA-D019B-TE)		X	X	
	VAX-11 Symbolic Debugger Reference Manual (AA-D026C-TE)		X	X	
4	**System Services and I/O**				
	VAX/VMS System Services Reference Manual (AA-D018B-TE)		X	X	X
	VAX/VMS I/O User's Guide (AA-D028B-TE) and Update Notice No. 1 (AD-D028B-T1) and Update Notice No. 2 (AD-D028B-T2)			X	

(continued on next page)

Table 1 (Cont.): VAX/VMS Software Document Set

Volume	Title (Order Number)	Suggested Audience			
		OP	AP	SP	SM
5	**Run-Time Library**				
	VAX-11 Run-Time Library Reference Manual (AA-D036B-TE)		X	X	
	VAX-11 Guide to Creating Modular Library Procedures (AA-H500B-TE)		X	X	
6	**VAX-11 Record Management Services**				
	Introduction to VAX-11 Record Management Services (AA-D024C-TE)		X	X	
	VAX-11 Record Management Services User's Guide (AA-D781C-TE)		X	X	
	VAX-11 Record Management Services Reference Manual (AA-D031C-TE)		X	X	
7	**RMS-11 Record Management Services**				
	RMS-11 User's Guide (AA-D538A-TC)	X	X	X	X
	RMS-11 MACRO Reference Manual (AA-H683A-TC)			X	
8	**Compatibility Mode (RSX-11M)**				
	VAX-11/RSX-11M User's Guide (AA-D037B-TE)		X	X	
	VAX-11/RSX-11M Programmer's Reference Manual (AA-D020B-TE)		X	X	
9	**System Programming**				
	VAX/VMS Real-Time User's Guide (AA-H784A-TE)		X	X	
	VAX/VMS Guide to Writing a Device Driver (AA-H499B-TE) and Update Notice No. 1 (AD-H449B-T1)			X	
	VAX/VMS System Dump Analyzer Reference Manual (AA-J526A-TE)			X	X
	VAX-11 PATCH Utility Reference Manual (AA-H785A-TE)		X	X	

(continued on next page)

Table 1 (Cont.): VAX/VMS Software Document Set

Volume	Title (Order Number)	Suggested Audience			
		OP	AP	SP	SM
10	**System Management and Operation**				
	VAX-11 Software Installation Guide (AA-D021C-TE)				X
	VAX-11/750 Software Installation Guide[1] (AA-K410A-TE)				X
	VAX/VMS System Manager's Guide (AA-D027B-TE)				X
	VAX/VMS Operator's Guide (AA-D025B-TE)	X	X	X	X
	VAX/VMS UETP User's Guide (AA-D643B-TE)	X			X

1. In the document set for the VAX-11/750, the *VAX-11/750 Software Installation Guide* replaces the *VAX-11 Software Installation Guide.*

Table 2: Other Relevant Documents

Title (Order Number)	Suggested Audience[1]			
	OP	AP	SP	SM
EDT Editor Reference Card (AV-J756A-TC)	X	X	X	X
Introduction to the EDT Editor: A CAI Minicourse Course Administrator Guide (AA-J823A-TE)				X
Introduction to the EDT Editor: A CAI Minicourse Student Guide (AA-J824A-TE)	X	X		
VAX/VMS Internals and Data Structures[2] (AA-K785A-TE)			X	
VAX-11 RTL Language Support Procedures Reference Manual (AA-J107A-TE)		X	X	
VAX-11 Programming Card (AV-D827A-TE)		X	X	

1. **OP** - operator;**AP** - application programmer; **SP** - system programmer;**SM** - system manager. For full explanation, see note 1, page 2.

2. The *VAX/VMS Internals and Data Structures* manual is not packaged with the VAX/VMS document set, but is available through separate order.

Volume 1. General Information

This volume contains manuals that introduce users to the VAX/VMS operating system. The release notes should be read first because they describe changes, errors, and corrections that have not been documented elsewhere. Two reference documents are included in Volume 1: an index of topics covered in the basic document set and a glossary of terms used throughout.

VAX–11 Information Directory and Index

This document introduces the software document set shipped with the current version of the VAX/VMS operating system. It provides a summary of each document and an index that directs the user to the manual or manuals in which each entry is discussed. It also provides information about optional VAX/VMS software documentation.

VAX/VMS Summary Description and Glossary

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

VAX/VMS Primer

This tutorial document introduces a new VAX/VMS user to the DIGITAL Command Language (DCL), its use in file manipulation and program development, and to elementary operating system concepts.

VAX/VMS Release Notes

This document defines the VAX/VMS release kit. It provides information on installing the kit, a summary of the differences between the current version of VAX/VMS and the previous version, and notes to published documentation. Read this document before installing a VAX/VMS system.

VAX–11/750 User's Notes

This document contains information specific to the VAX–11/750 processor that is not contained elsewhere in the document set. It is shipped as part of the document set for the VAX–11/750 processor.

Volume 2 (A and B). Command Language and System Messages

This volume provides a detailed description of the VAX/VMS DIGITAL Command Language (DCL). Included are a command language reference manual, a guide to developing command procedures, and a list of system messages and recovery procedures.

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

This document describes the DIGITAL Command Language (DCL). It provides detailed reference information and examples of all VAX/VMS DCL commands.

VAX/VMS Guide to Using Command Procedures

This document presents key concepts and techniques for developing command procedures using the VAX/VMS DIGITAL Command Language (DCL). Many examples, including examples of complete command procedures, are included to demonstrate applications of the concepts and techniques discussed.

VAX/VMS System Messages and Recovery Procedures Manual

This document contains a list of system messages, message descriptions, and suggested recovery procedures. The manual is intended for all users of the VAX/VMS operating system.

Volume 3 (A and B). Program Development Tools

The program development volume describes how to edit, link, and debug a program with the VAX/VMS operating system. It also provides information on the VAX-11 MACRO assembly language and various utilities, including SORT and MERGE routines.

VAX-11 Text Editing Reference Manual

This document describes the features and use of SOS, an interactive text editor. It is intended as a reference manual for users who are familiar with text editors and who want to use SOS on the VAX/VMS operating system.

EDT Editor Manual

This document describes how to use the EDT interactive text editor and serves as a reference source. The manual is intended for users of all operating systems that support the EDT editor.

VAX-11 Utilities Reference Manual and Update Notice No. 1

This document is intended for users who are already familiar with VAX/VMS system concepts. The following utilities are discussed:

- Personal Mail Utility (MAIL), a program that allows users to exchange messages within the same system or between any VAX-11 processors connected via DECnet-VAX
- File Transfer Utility (FLX), a program that transfers files from one volume to another and performs volume format conversions

- SLP and SUMSLP, two batch-oriented editors used to incorporate changes into source files and to indicate these changes with an audit trail
- Disk Save and Compress Utilities (DSC), three programs used to back up and restore disk volumes that have been formatted and initialized as Files-11 volumes
- Bad Block Locator Utility (BAD), a program to determine and record the number and location of bad blocks on block-structured volumes
- File Structure Verification Utility (VFY), a program to check the readability and validity of Files-11 volumes
- Librarian Utility (Librarian), a program for storing useful modules in a central accessible location
- Message Utility, a program for creating customized message libraries
- Backup Utility (BACKUP), a program used to back up, restore, or copy files, directories, and Files-11 disk volumes

VAX-11 SORT/MERGE User's Guide

This document describes how to use the VAX-11 native mode SORT/MERGE utility.

PDP-11 SORT Reference Manual

This document describes the features and operations of the PDP-11 SORT Utility. PDP-11 SORT can perform various sorting operations and can accept a variety of specifications. PDP-11 SORT operates in compatibility mode (see Volume 8).

VAX-11 MACRO User's Guide and Update Notice No. 1

This document contains the information required by an assembly language programmer to assemble and debug VAX-11 MACRO programs efficiently.

VAX-11 MACRO Language Reference Manual

This document describes the assembly language supported by VAX/VMS. All symbols, expressions, addressing modes, and directives are described in detail. Programmers should read the *VAX-11 MACRO User's Guide* before using this manual.

VAX-11 Linker Reference Manual

This document describes the features and operations of the VAX-11 linker, a program that translates the object modules produced by an assembler or compiler into an image capable of running on VAX/VMS. Linking is a required step in program development.

VAX–11 Symbolic Debugger Reference Manual

This document explains and illustrates the features of the VAX–11 symbolic debugger, a program development tool that assists the programmer in locating and correcting errors. The manual is designed especially for high-level language programmers, though assembly language programmers may use it effectively.

Volume 4. System Services and I/O

This volume provides detailed information on VAX/VMS services as well as the information required to interface directly with the I/O device drivers supplied as a part of the operating system. Users of this volume should be familiar with a VAX–11 native-mode programming language. (VAX/VMS system services can be used only with languages that produce native code for VAX–11 hardware.)

VAX/VMS System Services Reference Manual

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

VAX/VMS I/O User's Guide and Update Notices No. 1 and No. 2

This document contains the information needed to interface the I/O device drivers directly with VAX/VMS using the I/O system services supplied with the operating system. This manual is intended for system programmers who want to take advantage of the time and/or space savings that result from direct use of the I/O devices. Readers are expected to have some experience with either VAX–11 FORTRAN or VAX–11 MACRO.

Volume 5. Run-Time Library

This volume provides a detailed description of the VAX–11 Run-Time Library and describes how to design and code library procedures.

VAX–11 Run-Time Library Reference Manual

This document contains detailed information about the VAX–11 Run-Time Library. It introduces the library, describes the calling and naming conventions, and presents all procedures of a general nature. Each procedure is documented with a functional description, including algorithms and examples, and instructions for access from all VAX–11 supported languages. Readers should be familiar with the VAX/VMS operating system and should be proficient in at least one of the supported languages.

VAX–11 Guide to Creating Modular Library Procedures

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

Volume 6. VAX–11 Record Management Services

This volume provides information on the VAX–11 Record Management Services (VAX–11 RMS) for all levels of user. The introductory manual presents basic record and file concepts. The other two manuals present more detailed information for VAX–11 MACRO programmers.

Introduction to VAX–11 Record Management Services

This document contains an introductory description of the native-mode VAX–11 Record Management Services (VAX–11 RMS) of the VAX/VMS operating system. It outlines the basic concepts of disk and tape files and describes their interface with VAX–11 RMS; it describes the various file organizations, record access modes, and record formats; and it outlines general procedures for creating and processing files.

VAX–11 Record Management Services User's Guide

This document contains detailed information on using the capabilities of VAX–11 Record Management Services (VAX–11 RMS) efficiently. It describes how VAX–11 MACRO programmers can use VAX–11 RMS I/O routines within their programs and how high-level language programmers can use VAX–11 RMS directly through a call facility within their language. Users of this manual should be familiar with the VAX–11 MACRO conventions observed in constructing symbols and the use of numbers, operators, and expressions.

VAX–11 Record Management Services Reference Manual

The intent of this document is to enable VAX–11 MACRO programmers to use the VAX–11 Record Management Services (VAX–11 RMS) with the VAX/VMS operating system. Many data operations can be performed by using VAX–11 RMS and associated control routines. Users can perform these operations simply by calling a VAX–11 RMS routine, with the appropriate parameters, rather than writing their own routines.

Volume 7. RMS–11 Record Management Services

This file-management volume consists of manuals that describe the File Control Services (FCS) of the RSX–11M and RSX–11M–PLUS operating systems. The manuals describe how to install and use Record Management Services for PDP–11 operating systems (RMS–11) on these systems. On the VAX/VMS operating system, RMS–11 utilities run in compatibility mode (see Volume 8).

RMS–11 User's Guide

This document introduces data organization concepts, sequential and relative file applications, indexed file and indexed task design, and common optimization techniques. It also describes the operation and use of the following RMS–11 utilities:

- RMSDFN – Creates files
- RMSCNV – Moves data from one file to another
- RMSBCK – Creates back-up copies of files
- RMSDSP – Lists attributes of RMS–11 files and names of back-up files
- RMSRST – Restores back-up files to their original state
- RMSIFL – Loads, using a fast method, an indexed file with records from any type of RMS–11 file

RMS–11 MACRO–11 Reference Manual

This document provides a complete description of Record Management Services for PDP–11 operating systems (RMS–11) as set up on an RSX–11M, RSX–11M–PLUS, RSTS/E, or IAS operating system. RMS–11 files can be organized sequentially, relatively, or with embedded indexes. This 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.

Volume 8. Compatibility Mode (RSX–11M)

This volume contains information about compatibility mode, a processor state that allows PDP–11 programs to execute under the VAX/VMS operating system.

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. The information in this document is intended both to allow RSX–11M users to operate in a familiar environment, and to ease their transition to the DIGITAL Command Language (DCL), the primary VAX/VMS command language. This manual also contains general information about performing an RSX–11M or RSX–11S system generation under VAX/VMS.

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 3.2 task images run under the VAX/VMS operating system.

Volume 9. System Programming

This volume contains the information that system programmers need for real-time applications programming; for writing device drivers for devices that are not supported by DIGITAL software; and for modifying device-driver images, shareable images, and executable images. It also contains information on determining the cause of a VAX/VMS operating system failure.

VAX/VMS Real-Time User's Guide

This document discusses needs common to a variety of real-time programming applications and describes the features of the VAX/VMS operating system that meet these needs. It also contains a number of examples illustrating significant or complex points.

VAX/VMS Guide to Writing a Device Driver and Update Notice No. 1

Under VAX/VMS, a device driver is a set of routines and tables that the operating system uses to process an I/O request for a particular type of device. This document explains how to write device drivers for devices that are not supported by DIGITAL software and how to load these drivers into the VAX/VMS operating system.

VAX/VMS System Dump Analyzer Reference Manual

This document provides the information required to use the System Dump Analyzer, a utility that helps determine the cause of an operating system failure. This manual is intended for users who are familiar with VAX/VMS internal design, such as VAX/VMS developers, DIGITAL Software Support Specialists, and programmers who are writing their own device drivers.

VAX–11 PATCH Utility Reference Manual

This document provides the information necessary for examining and modifying shareable images, device-driver images, and executable images written in any language supported by the VAX/VMS operating system. This manual is intended for experienced system programmers.

Volume 10. System Management and Operation

This volume contains information on generation and day-to-day operation of the VAX/VMS operating system.

VAX–11 Software Installation Guide

This document contains instructions for installing the VAX/VMS operating system on the VAX–11/780 processor.

VAX–11/750 Software Installation Guide

This document contains instructions for installing the VAX/VMS operating system on the VAX–11/750 processor.

VAX/VMS System Manager's Guide

This document describes the tasks associated with VAX/VMS system management. These tasks include setting up the user authorization file; maintaining public files and volumes; setting up disk quotas; installing known images; setting up start-up procedures; maintaining batch, print, and terminal queues; monitoring and tuning the system; setting values for the system generation parameters; and logging errors.

VAX/VMS Operator's Guide

This document describes the operating procedures and commands used by a VAX/VMS system operator. It also describes the messages produced by the Operator's Communication Process (OPCOM).

VAX/VMS UETP User's Guide

This document provides the information needed to run the User Environment Test Package (UETP). The UETP is used by customers and DIGITAL personnel, especially at the time of system installation, to verify that hardware and software system components are functioning correctly.

Other Relevant Documents

Some of these items are packaged with the VAX/VMS document set. All can be ordered separately.

EDT Editor Reference Card

This card summarizes EDT's keypad editing features on VT52 and VT100 terminals. The last page is a tear-off card of key diagrams that can be taped to the terminal for easy reference.

Introduction to the EDT Editor: A CAI Minicourse Course Administrator Guide

This guide explains the tasks to be performed by the administrator of the EDT Computer-Assisted Instruction minicourse: building the CAI software on the students' computer system, logging in the students, backing up the CAI software, and solving problems that might occur as the CAI programs run.

Introduction to the EDT Editor: A CAI Minicourse Student Guide

This student guide is designed to be used in conjunction with the EDT Computer-Assisted Instruction minicourse. It provides an overall introduction to the course, including its objectives and sub-objectives.

VAX/VMS Internals and Data Structures

This manual explains the internal control paths and data structures used by the VAX/VMS operating system.

VAX/VMS RTL Language Support Procedures Reference Manual

This manual describes the language support procedures for VAX-11 BASIC, VAX-11 COBOL, VAX-11 FORTRAN, and VAX-11 PL/I.

VAX-11 Programming Card

This document is a reference guide to the VAX-11 instruction set and other information relevant to VAX-11 programming.

VAX/VMS Optional Document Descriptions

Optional documents are shipped to customers who have purchased separate licenses for software components. Table 3 lists the optional manuals currently available and the suggested audience for each. Brief descriptions of the manuals follow Table 3.

Table 3: Optional[1] VAX/VMS Software Documents

Title (Order Number)	Suggested Audience[2]			
	OP	AP	SP	SM
BASIC				
PDP-11 BASIC-PLUS-2 Language Reference Manual (AA-H774A-TC)		X		
RSX/IAS/VMS BASIC-PLUS-2 User's Guide (AA-0157C-TC)		X		
VMS BASIC-PLUS-2 Version 1.6 Release Notes (AA-J362A-TE)		X		
VAX-11 BASIC Installation Guide and Release Notes (AA-H868B-TE)		X		X
VAX-11 BASIC Language Reference Manual (AA-H867A-TE) and Update Notice No. 1 (AD-H867A-T1) and Update Notice No. 2 (AD-H867A-T2)		X		

(continued on next page)

1. Optional documents accompany software components for which you must purchase a special license.
2. The audiences for each document are identified by an "X" in one or more of the right-hand columns of the table. The job titles used are defined as follows:

OP The *operator* is anyone who uses the VAX/VMS operating system directly.

AP The *application programmer* uses high-level languages to develop programs for user applications.

SP 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 processor and its peripheral devices.

SM The *system manager* is responsible for overall operation of the VAX/VMS system, from installing the system to overseeing its performance to supervising day-to-day operations.

These job titles are only loosely defined, but are useful for indicating the general audience for each document. In small installations, all tasks may be performed by a single person. 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 listed in Table 3.

Table 3 (Cont.): Optional VAX/VMS Software Documents

Title (Order Number)	Suggested Audience			
	OP	AP	SP	SM
BASIC (Cont.)				
VAX-11 BASIC User's Guide (AA-H869A-TE) and Update Notice No. 1 (AD-H869A-T1) and Update Notice No. 2 (AD-H869A-T2)		X		
BLISS				
BLISS Language Guide (AA-H275B-TK)			X	
BLISS Pocket Guide (AV-H289B-TK)			X	
VAX-11 BLISS-32 User's Guide (AA-H322B-TE)			X	X
COBOL				
VAX-11 COBOL Installation Guide/Release Notes (AA-K026B-TE)				X
VAX-11 COBOL Language Reference Manual (AA-H631A-TE) and Update Notice No. 1 (AD-H631A-T1)		X		
VAX-11 COBOL Pocket Guide (AV-H633A-TE)		X		
VAX-11 COBOL-74 Translator Utility (AA-H822A-TE) and Update Notice No. 1 (AD-H822A-T1)		X		
VAX-11 COBOL User's Guide (AA-H632A-TE) and Update Notice No. 1 (AD-H632A-T1)		X		
VAX-11 COBOL-74 Installation Guide/Release Notes (AA-K642A-TE)				X
VAX-11 COBOL-74 Language Reference Manual (AA-C985A-TE) and Update Notice No. 1 (AD-C985A-T1)		X		
VAX-11 COBOL-74 User's Guide (AA-C986A-TE) and Update Notice No. 1 (AD-C986A-T1)		X		
CORAL				
CORAL 66 Language Reference Manual (AA-D111B-TC)		X	X	
IAS/RSX/VMS CORAL 66 User's Guide (AA-D112B-TK)		X	X	

(continued on next page)

Table 3 (Cont.): Optional VAX/VMS Software Documents

Title (Order Number)	Suggested Audience			
	OP	AP	SP	SM
DATATRIEVE				
DATATRIEVE–11 Installation Guide (AA-H169B-TC)				X
DATATRIEVE Primer (AA-J106A-TC)	X	X	X	X
DATATRIEVE–11 Version 2.0 Release Notes (AA-D110C-TC)	X	X	X	X
User's Guide to DATATRIEVE–11 (AA-C742B-TC)	X	X	X	X
DECnet–VAX				
DECnet–VAX Network Installation Procedures (AA-J680A-TE)				X
DECnet–VAX Release Notes (AA-J681A-TE)		X		X
DECnet–VAX System Manager's Guide (AA-H803A-TE)		X	X	X
DECnet–VAX User's Guide (AA-H802A-TE)		X	X	
DIGITAL Standard MUMPS				
VAX–11 DSM Language Reference Manual (AA-J415A-TE)		X	X	
VAX–11 DSM Summary (AV-J416A-TE)		X	X	
VAX–11 DSM User's Guide (AA-H800A-TE)	X	X	X	X
Forms Management System				
VAX–11 FMS Mini–Reference (AV-J262A-TE)		X		
VAX–11 FMS Release Notes (AA-J261A-TE)		X		X
VAX–11 FMS Software Reference Manual (AA-J260A-TE)		X		
FORTRAN				
IAS/RSX, VAX/VMS FORTRAN IV Installation Guide/ Release Notes (AA-1821E-TC)		X		X
IAS/RSX, VAX/VMS FORTRAN IV User's Guide (AA-1936F-TC)		X		
PDP–11 FORTRAN Language Reference Manual (AA-1855D-TC)		X		
VAX–11 FORTRAN Installation Guide/Release Notes (AA-H953A-TE)		X		X

(continued on next page)

Table 3 (Cont.): Optional VAX/VMS Software Documents

Title (Order Number)	Suggested Audience			
	OP	AP	SP	SM
FORTRAN (Cont.)				
VAX-11 FORTRAN Language Reference Manual (AA-D034B-TE)		X		
VAX-11 FORTRAN User's Guide (AA-D035B-TE)		X		
MUX200				
MUX200/VAX Emulator Release Notes (AA-H956C-TC)	X	X		X
MUX200/VAX Emulator System Manager's Guide (AA-H955A-TC)	X			X
MUX200/VAX Version 1.1 Emulator User's Guide (AA-H954A-TC)	X	X		
PASCAL				
VAX-11 PASCAL Installation Guide/Release Notes (AA-J181B-TE)		X		X
VAX-11 PASCAL Language Reference Manual (AA-H484B-TE)		X		
VAX-11 PASCAL Primer (AA-J180A-TE)		X		
VAX-11 PASCAL User's Guide (AA-H485B-TE)		X		
PL/I				
Introduction to VAX-11 PL/I (AA-H950A-TE)		X		
VAX-11 PL/I Encyclopedic Reference (AA-H952A-TE)		X		
VAX-11 PL/I Guide to Program Debugging (AA-K221A-TE)		X		
VAX-11 PL/I Installation and System Management Guide (AA-J179A-TE)				X
VAX-11 PL/I Language Summary (AV-J757A-TE)		X		
VAX-11 PL/I User's Guide (AA-H951A-TE)		X		
Protocol Emulators				
VAX-11 2780/3780 Protocol Emulator User's Guide (AA-H473A-TE)	X	X	X	X
VAX-11 3271 Protocol Emulator User's Guide (AA-J691A-TE)	X	X	X	X

BASIC

PDP–11 BASIC–PLUS–2 Language Reference Manual

This document describes the BASIC–PLUS–2 programming language. It explains BASIC–PLUS–2 statements, functions, and error messages. For system-dependent information, see the *RSX/IAS/VMS BASIC–PLUS–2 User's Guide.*

RSX/IAS/VMS BASIC–PLUS–2 User's Guide

This document describes the procedures for using BASIC–PLUS–2 on the RSX–11, IAS, and VAX/VMS (compatibility mode) operating systems. It describes system-dependent features, use of the compiler, resident libraries, files, and utilities.

VMS BASIC–PLUS–2 Version 1.6 Release Notes

This document contains additional information about BASIC–PLUS–2 Version 1.6 on VAX–11 computers using the VMS (Compatibility Mode) operating system.

VAX–11 BASIC Installation Guide and Release Notes

This document describes the procedures for installing and verifying VAX–11 BASIC Version 1.2 on VAX/VMS. It also contains a list of problems fixed in the Version 1.2 release and additional information about the VAX–11 BASIC compiler.

VAX–11 BASIC Language Reference Manual and Update Notices No. 1 and No. 2

This document describes the VAX–11 BASIC programming language. It describes the syntax and usage rules for each language element. The manual is alphabetically ordered by statement and function, with each language element on its own page. A task-oriented table of contents allows an unsophisticated VAX–11 BASIC user to find information easily.

VAX–11 BASIC User's Guide and Update Notices No. 1 and No. 2

This document describes the BASIC language on the VAX–11 processor. It is divided into two parts: (1) an introduction to VAX–11 BASIC and (2) advanced features of VAX–11 BASIC. Part 1 is designed to help the beginner acquire knowledge gradually. Part 2 describes the new features of VAX–11 BASIC and includes information on how to call procedures written in other languages, how to specify data types, and how to use the VAX–11 Symbolic Debugger.

BLISS

BLISS Language Guide

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

BLISS Pocket Guide

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

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.

COBOL

VAX-11 COBOL Installation Guide/Release Notes

This document describes the installation and verification procedures for installing VAX-11 COBOL Version 1.0 on VAX/VMS Version 2.0. It also contains information about the VAX-11 COBOL compiler that could not be included in the *VAX-11 COBOL User's Guide* or the *VAX-11 COBOL Language Reference Manual.*

VAX-11 COBOL Language Reference Manual and Update Notice No. 1

This document describes the VAX-11 COBOL Version 1.0 programming language, including its organization, syntax, and semantics. For system-dependent information, see the *VAX-11 COBOL User's Guide.*

VAX-11 COBOL Pocket Guide

This document contains the COBOL metalanguage elements and the formats for the VAX-11 COBOL statements; it also includes other frequently needed information, such as reserved words, file status key values, and character sets, in a convenient form.

VAX-11 COBOL-74 Translator Utility and Update Notice No. 1

This document describes how to translate VAX-11 COBOL-74 and PDP-11 COBOL programs to VAX-11 COBOL. It is part of the VAX-11 COBOL document set.

VAX-11 COBOL User's Guide and Update Notice No. 1

This document describes the VAX-11 COBOL Version 1.0 compiler. It discusses the relationships between the COBOL language, the compiler, object modules and executable images, and VAX/VMS and its utilities. The User's Guide supplements the description of the COBOL programming language in the *VAX-11 COBOL Language Reference Manual.*

VAX-11 COBOL-74 Installation Guide/Release Notes

This document describes the installation and verification procedures for installing VAX-11 COBOL-74 Version 4.2 on VAX/VMS.

VAX-11 COBOL-74 Language Reference Manual and Update Notice No. 1

This document describes the VAX-11 COBOL-74 Version 4.0 programming language, including its organization, syntax, and semantics. For system-dependent information, see the *VAX-11 COBOL-74 User's Guide.*

VAX-11 COBOL-74 User's Guide and Update Notice No. 1

This document describes the use of VAX-11 COBOL-74 Version 4.0. It includes procedures for compiling, linking, and running VAX-11 COBOL-74 programs. This user's guide also lists compiler, record management services, and run-time system diagnostics. VAX-11 COBOL-74 operates in compatibility mode and generates native-mode object modules.

CORAL

CORAL 66 Language Reference Manual

This document is intended for programmers using CORAL 66 on any DIGITAL computer. It provides a definition of DIGITAL CORAL 66. The manual should be used for reference purposes only; it does not attempt to teach CORAL 66 to the reader.

IAS/RSX/VMS CORAL 66 User's Guide

This document describes the compiling, linking, and running of CORAL source programs under the IAS, RSX-11D, and RSX-11M operating systems. Two CORAL run-time libraries are also described: the Object Time System Library and the Stand-Alone Object Time System Library. In addition, this

guide describes use of the compiler under VAX/VMS. Compiling is performed in compatibility mode; the linking and running processes, in native mode. The CORAL run-time library is also explained. Users of this manual should have some knowledge of the operating system, and should have an appropriate set of operating system manuals for reference.

DATATRIEVE

DATATRIEVE–11 Installation Guide

This document describes how to install DATATRIEVE on a VAX/VMS system.

DATATRIEVE Primer

This document is a tutorial introduction to DATATRIEVE concepts and use. The examples in the manual are drawn from sample data included in the DATATRIEVE installation software.

DATATRIEVE–11 Version 2.0 Release Notes

This document describes differences between Version 2.0 and the previous versions of DATATRIEVE.

User's Guide to DATATRIEVE–11

This document describes the elements of the DATATRIEVE language. Half the text is user, or task, oriented; the other half describes the entire language in reference format.

DECnet–VAX

DECnet–VAX Network Installation Procedures

This document describes how to install and test DECnet–VAX software. The procedures described in this manual allow you to verify that the network is up and running correctly.

DECnet–VAX Release Notes

This document contains information not included elsewhere in the DECnet–VAX documentation concerning changes in software and/or documentation that were made late in the development cycle.

DECnet–VAX System Manager's Guide

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

DECnet–VAX User's Guide

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 programs that use DECnet, how to perform intertask communications, and how to access remote files. It also describes interactive facilities for transferring files to and from remote nodes.

DIGITAL Standard MUMPS

VAX–11 DSM Language Reference Manual

This document describes the syntax and elements of the DIGITAL Standard MUMPS programming language running in the VAX/VMS environment.

VAX–11 DSM Summary

This document is a pocket summary of the VAX–11 DSM language, features of the VAX–11 DSM system, and other information relevant to VAX–11 DSM programming.

VAX–11 DSM User's Guide

This document describes how to install, operate, and use DIGITAL Standard MUMPS on VAX/VMS. It provides detailed reference information about the VAX–11 DSM system for application and system programmers and for the VAX/VMS system manager and/or operator. This manual includes a detailed description of the VAX–11 DSM data base, its architecture and optimization.

Forms Management System

VAX–11 FMS Mini-Reference

This document summarizes the features of the Forms Management System (FMS). It is a quick reference guide to FMS components and application information.

VAX–11 FMS Release Notes

This document describes the procedure for installing VAX–11 FMS on the VAX/VMS operating system. It provides the User Environment Test Package (UETP) documentation to check the installation. Additional VAX–11 FMS demonstration programs are described.

VAX–11 FMS Software Reference Manual

This document describes the Forms Management System for VAX/VMS Version 2.0. It provides the information required to design forms for display on the VT100 video terminal and to develop VAX–11 BASIC, VAX–11 COBOL, VAX–11 FORTRAN, and VAX–11 PL/I application programs that use FMS forms for gathering and displaying data.

FORTRAN

IAS/RSX, VAX/VMS FORTRAN IV Installation Guide/Release Notes

This document contains instructions for installing the PDP–11 FORTRAN IV compiler on the VAX/VMS operating system. It also contains information not included elsewhere in the document set, typically concerning software and/or documentation changes that were made late in the development cycle. This document should be read before the PDP–11 FORTRAN IV compiler is installed or used.

IAS/RSX, VAX/VMS FORTRAN IV User's Guide

This document describes the procedures for compiling, linking, and executing PDP–11 FORTRAN IV programs on the IAS and RSX operating systems. It also explains the FORTRAN Object Time System (OTS), a collection of routines that includes mathematical functions, utilities, input/output handlers, and system services; OTS routines are optional and may be selected during installation. On VAX/VMS, PDP–11 FORTRAN IV operates in compatibility mode.

PDP–11 FORTRAN Language Reference Manual

This document describes the elements of PDP–11 FORTRAN and is designed as a reference, rather than tutorial, manual. This document serves as the FORTRAN language reference manual for several operating systems that run on the PDP–11 family of computers. Therefore, no information specific to an operating system is presented here. For that information, refer to the user's guide for each system.

Two levels of FORTRAN are described: FORTRAN IV and FORTRAN IV–PLUS. FORTRAN IV–PLUS is a compatible superset of FORTRAN IV.

VAX–11 FORTRAN Installation Guide/Release Notes

This document contains instructions for installing the VAX–11 FORTRAN compiler on the VAX/VMS operating system. It also contains information not included elsewhere in the document set, typically concerning software and/or documentation changes that were made late in the development cycle. This document should be read before the VAX–11 FORTRAN compiler is installed or used.

VAX–11 FORTRAN Language Reference Manual

This document describes the FORTRAN language elements supported by VAX–11 FORTRAN. It is intended to be used as a reference manual in preparing VAX–11 FORTRAN source programs; it is not intended to be a tutorial document or to present information on the VAX–11 FORTRAN user's interface with the VAX/VMS system.

VAX–11 FORTRAN User's Guide

This document describes how to compile, debug, and execute VAX–11 FORTRAN language programs using the VAX/VMS operating system facilities. It also includes information on programming efficiency, VAX–11 FORTRAN input/output, error processing, and the compatibility of VAX–11 FORTRAN with PDP–11 FORTRAN.

MUX200

MUX200/VAX Emulator Release Notes

This document contains information not included elsewhere in MUX200/VAX documentation concerning changes in software and/or documentation that were made late in the development cycle. This information should be read before the MUX200/VAX Version 1.1 Emulator is installed or used.

MUX200/VAX Emulator System Manager's Guide

This document is intended for the system manager or whoever installs and controls the MUX200/VAX Version 1.1 Emulator. Users should first read the *MUX200/VAX Version 1.1 Emulator User's Guide* and should possess knowledge of the VAX/VMS operating system. The manual covers subsystem control using privileged commands and installation and trouble-shooting procedures.

MUX200/VAX Version 1.1 Emulator User's Guide

This document describes how to start and operate the MUX200/VAX Version 1.1 Emulator. It explains how to use the MUX200/VAX system to emulate as many as 16 CDC 200 User Terminals (UT) and how to communicate with the remote CDC or other host computer capable of using 200 UT mode 4A communications protocol. Users should have a basic knowledge of the VAX/VMS operating system. The manual gives no details about control of the host computer because the facilities available will vary with the installation. Control of the host computer is described in the relevant host document.

PASCAL

VAX-11 PASCAL Installation Guide/Release Notes

This document contains instructions for installing the VAX-11 PASCAL compiler on the VAX/VMS operating system. It also contains information not included elsewhere in the document set, typically concerning software and/or documentation changes that were made late in the development cycle. This document should be read before the VAX-11 PASCAL compiler is installed or used.

VAX-11 PASCAL Language Reference Manual

This document describes the elements of the PASCAL language supported by VAX-11 PASCAL. It is intended as a reference manual for use in preparing VAX-11 PASCAL source programs.

VAX-11 PASCAL Primer

This document introduces VAX-11 PASCAL for programmers unfamiliar with the PASCAL language. It also outlines the steps to compile, link, and execute VAX-11 PASCAL programs.

VAX-11 PASCAL User's Guide

This document describes how to compile, link, and execute VAX-11 PASCAL programs on the VAX/VMS operating system. It also contains information useful to VAX-11 PASCAL programmers, dealing with input and output, procedure calling, error processing, and storage allocation.

PL/I

Introduction to VAX-11 PL/I

This document provides an overview of the PL/I language, summarizing the VAX-11 extensions, and introduces the tools for PL/I program development on VAX/VMS.

VAX-11 PL/I Encyclopedic Reference

This document contains a complete definition of the VAX-11 PL/I language. It lists the semantics and syntax rules for all standard PL/I language elements.

VAX-11 PL/I Guide to Program Debugging

This document explains the use of the VAX-11 Symbolic Debugger with VAX-11 PL/I programs.

VAX-11 PL/I Installation and System Management Guide

This document gives step-by-step instructions for installing the VAX-11 PL/I compiler. It also describes how to diagnose and report problems with the compiler.

VAX-11 PL/I Language Summary

This document gives a concise summary of VAX-11 PL/I attributes, statements, built-in functions, and conversion rules. It also provides quick reference for ENVIRONMENT options, the ASCII character set, and PLI command qualifiers and options.

VAX-11 PL/I User's Guide

This document describes how to compile, link, and execute PL/I programs on the VAX/VMS operating system. It also contains information on input/output processing, and explains extensions to VAX-11 PL/I to support procedure calling and condition handling.

Protocol Emulators

VAX-11 2780/3780 Protocol Emulator User's Guide

This document describes how to use the VAX-11 2780/3780 Protocol Emulator to pass files between a VAX-11 processor and an IBM system that is configured to support an IBM 2780 or 3780 remote batch terminal. It also describes hardware and software requirements of the interconnected systems, how to install the software in your VAX/VMS system, and how to test your communications link.

VAX-11 3271 Protocol Emulator User's Guide

This document describes how interprogram communication between a VAX/VMS system and an IBM System/370 running under the CICS/VS or IMS/VS DB/DC systems can be achieved. This manual describes the user interface to the VAX-11 3271 Protocol Emulator for the programmer on a VAX/VMS system and also provides instructions for the system manager to generate and maintain the emulator on the VAX/VMS system. It is assumed that users of the VAX-11 3271 Protocol Emulator have a working knowledge of the VAX/VMS and IBM systems they will be using.

Index

The following general index contains entries for major topics covered in the basic VAX/VMS document set. No entries are listed for optional manuals, that is, documents for software products purchased by separate license. The index is not exhaustive, nor is it intended to replace the indexes of the individual manuals. Rather, its purpose is to guide the user to primary sources of information on the wide variety of topics covered by the document set.

Most index entries refer to one manual only, the primary source of information on that topic. When two or more manuals are listed, those sources contain closely related information.

Each manual is identified by a 3- to 6-letter abbreviation. The number of the volume that contains the manual appears in parentheses after the abbreviation. For example, the entry

Bus adapters, *WDD (9)*

points you to the *VAX/VMS Guide to Writing a Device Driver, (WDD)*, which is in volume 9. To find the actual chapter or page where bus adapters are discussed, you must consult the table of contents or the index of the manual specified.

The abbreviations and volume numbers of all the manuals in the VAX/VMS document set are listed on the following pages.

Volume 1. General Information

IDI (1) - VAX-11 Information Directory and Index

SUM (1) - VAX/VMS Summary Description and Glossary

PRM (1) - VAX/VMS Primer

REL (1) - VAX/VMS Release Notes

Volume 2A. Command Language and System Messages

DCL (2A) - VAX/VMS Command Language User's Guide

GCP (2A) - VAX/VMS Guide to Using Command Procedures

Volume 2B. Command Language and System Messages

MSG (2B) - VAX/VMS System Messages and Recovery Procedures Manual

Volume 3A. Program Development Tools

SOS (3A) - VAX-11 Text Editing Reference Manual

EDT (3A) - EDT Editor Manual

UTIL (3A) - VAX-11 Utilities Reference Manual

SM (3A) - VAX-11 SORT/MERGE User's Guide

SORT$_{11}$ (3A) - PDP-11 SORT Reference Manual

Volume 3B. Program Development Tools

MACU (3B) - VAX-11 MACRO User's Guide

MACR (3B) - VAX-11 MACRO Language Reference Manual

LINK (3B) - VAX-11 Linker Reference Manual

DBUG (3B) - VAX-11 Symbolic Debugger Reference Manual

Volume 4. System Services and I/O

SSR (4) - VAX/VMS System Services Reference Manual

IOG (4) - VAX/VMS I/O User's Guide

Volume 5. Run-Time Library

RTL (5) - VAX-11 Run-Time Library Reference Manual

MOD (5) - VAX-11 Guide to Creating Modular Library Procedures

Volume 6. VAX-11 Record Management Services

IRMS (6) - Introduction to VAX-11 Record Management Services
RMSU (6) - VAX-11 Record Management Services User's Guide
RMSR (6) - VAX-11 Record Management Services Reference Manual

Volume 7. RMS-11 Record Management Services

RMS11U (7) - RMS-11 User's Guide
RMS11R (7) - RMS-11 MACRO Reference Manual

Volume 8. Compatibility Mode (RSX-11M)

RSXU (8) - VAX-11/RSX-11M User's Guide
RSXR (8) - VAX-11/RSX-11M Programmer's Reference Manual

Volume 9. System Programming

REAL (9) - VAX/VMS Real-Time User's Guide
WDD (9) - VAX/VMS Guide to Writing a Device Driver
SDA (9) - VAX/VMS System Dump Analyzer Reference Manual
PTCH (9) - VAX-11 PATCH Utility Reference Manual

Volume 10. System Management and Operation

SIG (10) - VAX-11 Software Installation Guide
SIG750 (10) - VAX-11/750 Software Installation Guide
SMGR (10) - VAX/VMS System Manager's Guide
OPG (10) - VAX/VMS Operator's Guide
UETP (10) - VAX/VMS UETP User's Guide

A

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