# Overview of OpenVMS Documentation

Order Number: AA–QSBEA–TE

**December 1995**

This manual contains a brief description of the OpenVMS documentation set and includes a short summary of each manual for OpenVMS Alpha Version 7.0 and OpenVMS VAX Version 7.0.

**Revision/Update Information:** This manual supersedes the *Overview of OpenVMS Documentation*, Version 6.2.

**Software Version:** OpenVMS Alpha Version 7.0
OpenVMS VAX Version 7.0

**Digital Equipment Corporation**
**Maynard, Massachusetts**

**December 1995**

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# Preface

## Reader's Comments

Digital welcomes your comments on this manual.

Print or edit the online form SYS$HELP:OPENVMSDOC_COMMENTS.TXT and send us your comments by:

| | |
|---|---|
| Internet | **openvmsdoc@zko.mts.dec.com** |
| Fax | 603 881-0120, Attention: OpenVMS Documentation, ZK03-4/U08 |
| Mail | OpenVMS Documentation Group, ZKO3-4/U08<br>110 Spit Brook Rd.<br>Nashua, NH 03062-2698 |

## How To Order Additional Documentation

Use the following table to order additional documentation or information. If you need help deciding which documentation best meets your needs, call 800-DIGITAL (800-344-4825).

**Telephone and Direct Mail Orders**

| Location | Call | Fax | Write |
|---|---|---|---|
| U.S.A. | DECdirect<br>800–DIGITAL<br>800–344–4825 | Fax: 800–234–2298 | Digital Equipment Corporation<br>P.O. Box CS2008<br>Nashua, NH 03061 |
| Puerto Rico | 809–781–0505 | Fax: 809–749–8300 | Digital Equipment Caribbean, Inc.<br>3 Digital Plaza, 1st Street, Suite 200<br>P.O. Box 11038<br>Metro Office Park<br>San Juan, Puerto Rico 00910–2138 |
| Canada | 800–267–6215 | Fax: 613–592–1946 | Digital Equipment of Canada, Ltd.<br>Box 13000<br>100 Herzberg Road<br>Kanata, Ontario, Canada K2K 2A6<br>Attn: DECdirect Sales |
| International | — | — | Local Digital subsidiary or approved distributor |
| Internal Orders | DTN: 264–4446<br>603–884–4446 | Fax: 603–884–3960 | U.S. Software Supply Business<br>Digital Equipment Corporation<br>10 Cotton Road<br>Nashua, NH 03063–1260 |

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## Conventions

The name of the OpenVMS AXP operating system has been changed to OpenVMS Alpha. Any references to OpenVMS AXP or AXP are synonymous with OpenVMS Alpha or Alpha.

The following conventions are used to identify information specific to OpenVMS Alpha or to OpenVMS VAX:

| | |
|---|---|
| | The Alpha icon denotes the beginning of information specific to OpenVMS Alpha. |
| | The VAX icon denotes the beginning of information specific to OpenVMS VAX. |
| ♦ | The diamond symbol denotes the end of a section of information specific to OpenVMS Alpha or to OpenVMS VAX. |

# 1 Overview

This manual is a guide to the OpenVMS documentation set for OpenVMS Alpha Version 7.0 and OpenVMS VAX Version 7.0. It provides information about the contents of the documentation set and provides ordering information for each of the components in the OpenVMS documentation set.

This manual helps you choose the documentation that best suits your needs. It describes the components of the complete OpenVMS documentation set, provides ordering information, and lists order numbers for all components.

A combination of printed and Bookreader manuals are being provided to support OpenVMS Version 7.0.

Section 2.1 and Section 2.2 list the manuals that have been revised for our printed documentation set for Version 7.0. Several of the manuals in the OpenVMS Documentation Set were revised only in Bookreader format. Refer to Section 2.3 for a list of manuals that have been revised only in Bookreader format and to the *OpenVMS Version 7.0 Release Notes* and the *OpenVMS Version 7.0 New Features Manual* for information concerning operating system changes that are not included in our printed documentation. In most cases, no changes have been made to the user operation of the components associated with these manuals.

## 1.1 Documentation Formats

OpenVMS documentation is available in a variety of formats:

- Printed books (hard copy)
- Online viewable books (using the DECwindows Bookreader application)

  OpenVMS customers receive the Version 7.0 documentation set in online viewable format with their OpenVMS CD–ROM kit, which contains a separate documentation CD–ROM. For more information about online documentation, see Section 6.
- Printable files in ASCII text and PostScript formats

# 2 What's New in Version 7.0

This section describes the changes to the OpenVMS documentation set for OpenVMS Version 7.0.

## 2.1 New Documentation for This Release

The following new manuals are in the OpenVMS Version 7.0 documentation set:

- *Guide to OpenVMS Version 7.0 CD–ROMs*
- *Migrating an Application from OpenVMS VAX to OpenVMS Alpha*
- *Migrating an Environment from OpenVMS VAX to OpenVMS Alpha*
- *OpenVMS Alpha Guide to 64-Bit Addressing*
- *OpenVMS Alpha Guide to Upgrading Privileged-Code Applications*
- *OpenVMS Alpha Version 7.0 Upgrade and Installation Manual*
- *OpenVMS VAX Version 7.0 Upgrade and Installation Manual*
- *OpenVMS Version 7.0 New Features Manual*

- *OpenVMS Version 7.0 Release Notes*

See Appendix A in this document for a description of these manuals.

## 2.2 Updated Printed Documentation for This Release

The following manuals have been revised in printed and Bookreader formats for Version 7.0:

- *Guide to DECthreads*
- *OpenVMS Calling Standard*
- *OpenVMS Command Definition, Librarian, and Message Utilities Manual*
- *OpenVMS Debugger Manual*
- *OpenVMS Master Index*
- *OpenVMS RTL Library (LIB$) Manual*
- *OpenVMS System Services Reference Manual: A–GETMSG*
- *OpenVMS System Services Reference Manual: GETQUI–Z*
- *Overview of OpenVMS Documentation*

## 2.3 Updated Bookreader Documentation for This Release

The following manuals have been revised in Bookreader format for Version 7.0. In addition, printable PostScript files are provided on the Documentation CD–ROM. For information about printing the files, see the *Guide to OpenVMS Version 7.0 CD–ROMs*.

- *DECamds User's Guide*
- *OpenVMS Alpha System Dump Analyzer Manual*
- *OpenVMS DCL Dictionary: A–M (Version 7.0)*
- *OpenVMS DCL Dictionary: N–Z (Version 7.0)*
- *OpenVMS I/O User's Reference Manual*
- *OpenVMS Linker Utility Manual*
- *OpenVMS Programming Concepts Manual*
- *OpenVMS Record Management Services Reference Manual*
- *OpenVMS RTL General Purpose (OTS$) Manual*
- *OpenVMS RTL Screen Management Purpose (SMG$) Manual*
- *OpenVMS RTL String Manipulation (STR$) Manual*
- *OpenVMS Software Overview*
- *OpenVMS System Manager's Manual: Essentials*
- *OpenVMS System Manager's Manual: Tuning, Monitoring, and Complex Systems*
- *OpenVMS User's Manual*
- *OpenVMS Utility Routines Manual*
- *POLYCENTER Software Installation Utility Developer's Guide*

## 2.4 Revised Version 6.2 DCL Dictionary

The *OpenVMS DCL Dictionary: A–M* Version 6.2 and the *OpenVMS DCL Dictionary: N–Z* Version 6.2 have been revised and reissued for OpenVMS Version 7.0. Customers running OpenVMS Version 6.2 should use this new edition of the OpenVMS DCL Dictionary Version 6.2, order numbers AA–PVSKD–TK and AA–PVSLD–TK.

In addition, the Version 7.0 DCL Dictionary is available in Bookreader and PostScript formats on the Documentation CD–ROM.

# 3 Components of OpenVMS Documentation

OpenVMS documentation consists of the following documentation components:

- Full Documentation Set (which includes the Base Documentation Set)
- Base Documentation Set
- System Integrated Products (SIPs)
- Online help
- Help Message facility
- Printable documentation options in the OpenVMS VAX installation procedure

The components of the various documentation sets are described in this section.

The OpenVMS hardcopy documentation offering is made up of the following two sets that can be ordered separately:

| Set | Order Number |
|---|---|
| OpenVMS Full Documentation Set | QA–001AA–GZ.7.0 |
| OpenVMS Base Set (subset of Full Documentation Set) | QA–09SAA–GZ.7.0 |

The OpenVMS Full Documentation Set contains the OpenVMS Base Set. Table 1 lists the books included in the OpenVMS Full and Base Documentation Sets. You can order documentation by sets or by individual manuals.

The installation information for your OpenVMS operating system is included in the media kit for your software.

## 3.1 OpenVMS Full Documentation Set

Table 1 lists the documents in the OpenVMS Full Documentation Set and the OpenVMS Base Set.

**Table 1 OpenVMS Full Documentation Set**

| Manual | Order Number |
|---|---|
| **OpenVMS Base Subset** | |
| *Migrating an Application from OpenVMS VAX to OpenVMS Alpha* | AA–QSBKA–TE |
| *Migrating an Environment from OpenVMS VAX to OpenVMS Alpha* | AA–QSBLA–TE |
| *OpenVMS Compatibility Between VAX and Alpha* | AA–PYQ4C–TE |
| *OpenVMS DCL Dictionary: A–M* (revised Version 6.2) | AA–PV5KD–TK |
| *OpenVMS DCL Dictionary: N–Z* (revised Version 6.2) | AA–PV5LD–TK |
| *OpenVMS Guide to System Security* | AA–Q2HLB–TE |
| *OpenVMS Management Station Overview and Release Notes* | AA–QJGCA–TE |
| *OpenVMS Master Index* (Version 6.2) | AA–PV5VC–TK |
| *OpenVMS Master Index* (Version 7.0) | AA–QSBSA–TE |
| *OpenVMS System Management Utilities Reference Manual: A–L* | AA–PV5PC–TK |
| *OpenVMS System Management Utilities Reference Manual: M–Z* | AA–PV5QC–TK |
| *OpenVMS System Manager's Manual: Essentials* | AA–PV5MC–TK |
| *OpenVMS System Manager's Manual: Tuning, Monitoring, and Complex Systems* | AA–PV5NC–TK |
| *OpenVMS User's Manual* | AA–PV5JB–TK |
| *OpenVMS Version 6.2 New Features Manual* | AA–QJEEA–TE |
| *OpenVMS Version 7.0 New Features Manual* | AA–QSBFA–TE |
| *OpenVMS Version 6.2 Release Notes Addendum* | AA–QMCHA–TE |
| *OpenVMS Version 6.2 Release Notes* | AA–QJEFA–TE |
| *OpenVMS Version 7.0 Release Notes* | AA–QSBTA–TE |
| *Overview of OpenVMS Documentation* (Version 6.2) | AA–PV6YC–TK |
| *Overview of OpenVMS Documentation* (Version 7.0) | AA–QSBEA–TE |
| *TCP/IP Networking on OpenVMS Systems* | AA–QJGDA–TE |
| | |
| *A Comparison of System Management on OpenVMS AXP and OpenVMS VAX* | AA–PV71B–TE |
| *Building Dependable Systems: The OpenVMS Approach* | AA–PV5YB–TE |
| *Creating an OpenVMS AXP Step 2 Device Driver from a Step 1 Device Driver* | AA–Q28TA–TE |
| *Creating an OpenVMS AXP Step 2 Device Driver from an OpenVMS VAX Device Driver* | AA–Q28UA–TE |
| *DECamds User's Guide* | AA–Q3JSB–TE |
| *DECnet for OpenVMS Guide to Networking* | AA–PV5ZA–TK |
| *DECnet for OpenVMS Networking Manual* | AA–PV60A–TK |
| *DECnet for OpenVMS Network Management Utilities* | AA–PV61A–TK |
| *DEC Text Processing Utility Reference Manual* | AA–PWCCA–TE |
| *Digital Portable Mathematics Library* | AA–PV6VB–TE |

(continued on next page)

**Table 1 (Cont.) OpenVMS Full Documentation Set**

| Manual | Order Number |
|---|---|
| *Extensible Versatile Editor Reference Manual* | AA–PWCDA–TE |
| *Guide to Creating OpenVMS Modular Procedures* | AA–PV6AA–TK |
| *Guide to DECthreads* (Version 6.1) | AA–Q39DA–TK |
| *Guide to DECthreads* (Version 7.0) | AA–QSBPA–TE |
| *Guide to the DEC Text Processing Utility* | AA–PWCBA–TE |
| *Guide to OpenVMS AXP Performance Management* | AA–Q28WA–TE |
| *Guide to OpenVMS File Applications* | AA–PV6PA–TK |
| *Guide to OpenVMS Performance Management* | AA–PV5XA–TE |
| *Guidelines for VMScluster System Configurations* | AA–Q28LA–TK |
| *Migrating to an OpenVMS AXP System: Planning for Migration* | AA–PV62A–TE |
| *Porting VAX MACRO Code from OpenVMS VAX to OpenVMS Alpha* | AA–PV64A–TE |
| *Migrating to an OpenVMS AXP System: Recompiling and Relinking Applications* | AA–PV63A–TE |
| *OpenVMS Alpha Guide to 64-Bit Addressing* | AA–QSBCA–TE |
| *OpenVMS Alpha Guide to Upgrading Privileged-Code Applications* | AA–QSBGA–TE |
| *OpenVMS AXP Device Support: Developer's Guide* | AA–Q28SA–TE |
| *OpenVMS AXP Device Support: Reference* | AA–Q28PA–TE |
| *OpenVMS AXP System Dump Analyzer Utility Manual* | AA–PV6UB–TE |
| *OpenVMS Calling Standard* (Version 6.1) | AA–PV69B–TK |
| *OpenVMS Calling Standard* (Version 7.0) | AA–QSBBA–TE |
| *OpenVMS Command Definition, Librarian, and Message Utilities Manual* | AA–QSBDA–TE |
| *OpenVMS Debugger Manual* (Version 6.1) | AA–PV6BB–TK |
| *OpenVMS Debugger Manual* (Version 7.0) | AA–QSBJA–TE |
| *OpenVMS Delta/XDelta Debugger Manual* | AA–PWCAA–TE |
| *OpenVMS Glossary* | AA–PV5UA–TK |
| *OpenVMS I/O User's Reference Manual* | AA–PV6SA–TK |
| *OpenVMS Linker Utility Manual* | AA–PV6CA–TK |
| *OpenVMS Programming Concepts Manual* | AA–PV67B–TK |
| *OpenVMS Programming Environment Manual* | AA–PV66B–TK |
| *OpenVMS Programming Interfaces: Calling a System Routine* | AA–PV68A–TK |
| *OpenVMS Record Management Utilities Reference Manual* | AA–PV6QA–TK |
| *OpenVMS Record Management Services Reference Manual* | AA–PV6RA–TK |
| *OpenVMS RTL General Purpose (OTS$) Manual* | AA–PV6HA–TK |
| *OpenVMS RTL Library (LIB$) Manual* (Version 6.1) | AA–PB6KB–TE |
| *OpenVMS RTL Library (LIB$) Manual* (Version 7.0) | AA–QSBHA–TE |
| *OpenVMS RTL Screen Management (SMG$) Manual* | AA–PV6LA–TK |
| *OpenVMS RTL String Manipulation (STR$) Manual* | AA–PV6MA–TK |

(continued on next page)

**Table 1 (Cont.) OpenVMS Full Documentation Set**

| Manual | Order Number |
|---|---|
| *OpenVMS Software Overview* | AA–PVXHB–TE |
| *OpenVMS System Messages: Companion Guide for Help Message Users* | AA–PV5TA–TK |
| *OpenVMS System Services Reference Manual: A–GETMSG* (V6.1) | AA–PV6FB–TK |
| *OpenVMS System Services Reference Manual: GETQUI–Z* (V6.1) | AA–PV6GB–TK |
| *OpenVMS System Services Reference Manual: A–GETMSG* (V7.0) | AA–QSBMA–TE |
| *OpenVMS System Services Reference Manual: GETQUI–Z* (V7.0) | AA–QSBNA–TE |
| *OpenVMS Utility Routines Manual* | AA–PV6EB–TK |
| *OpenVMS VAX Device Support Manual* | AA–PWC8A–TE |
| *OpenVMS VAX Device Support Reference Manual* | AA–PWC9A–TE |
| *OpenVMS VAX RTL Mathematics (MTH$) Manual* | AA–PVXJA–TE |
| *OpenVMS VAX System Dump Analyzer Utility Manual* | AA–PV6TA–TE |
| *POLYCENTER Software Installation Utility Developer's Guide* | AA–Q28MA–TK |
| *VAX MACRO and Instruction Set Reference Manual* | AA–PS6GA–TE |
| *VMScluster Systems for OpenVMS* | AA–PV5WB–TK |

## 3.2 Color Designators

Beginning with Version 6.2, we introduced a new cover design and new colors for the Version 6.2 new and updated manuals. The colors of the manuals indicate the manual type (general user, system management, or programming). In addition, we have added a letter to the spine of each manual that indicates the manual type. The following table shows manual type, color, and letter designator.

| Manual Type | Cover Color | Letter Designator |
|---|---|---|
| General user | Blue | G |
| System management | Red | S |
| Programming | Green | P |

See Figure 1 for an illustration of the OpenVMS documentation set organized by audience.

**Figure 1 OpenVMS Documentation Set Organized by Audience**

## General User Manuals

*Extensible Versatile Editor Reference Manual*
*OpenVMS Compatibility Between VAX and Alpha*
*OpenVMS DCL Dictionary (I & II) (6.2)*
*OpenVMS Glossary*
*OpenVMS Management Station Overview and Release Notes*
*OpenVMS Master Index (6.2)*
*OpenVMS Master Index (7.0)*
*OpenVMS Software Overview*
*OpenVMS System Messages: Companion Guide for Help Message Users*
*OpenVMS User's Manual*
*OpenVMS Version 6.2 New Features*
*OpenVMS Version 7.0 New Features*
*OpenVMS Version 6.2 Release Notes*
*OpenVMS Version 7.0 Release Notes*
*Overview of OpenVMS Documentation (6.2)*
*Overview of OpenVMS Documentation (7.0)*

## System Management Manuals

*A Comparison of System Management on OpenVMS AXP and OpenVMS VAX*
*Building Dependable Systems: The OpenVMS Approach*
*DECamds User's Guide*
*DECnet for OpenVMS Guide to Networking*
*DECnet for OpenVMS Networking Manual*
*DECnet for OpenVMS Network Management Utilities*
*Guide to OpenVMS AXP Performance Management*
*Guide to OpenVMS Performance Management*
*Guidelines for VMScluster Configurations*
*Migrating an Environment from OpenVMS VAX to OpenVMS Alpha*
*OpenVMS Alpha Version 6.2 Upgrade and Installation Manual*
*OpenVMS Alpha Version 7.0 Upgrade and Installation Manual*
*OpenVMS Compatibility Between VAX and Alpha*
*OpenVMS Guide to System Security*
*OpenVMS System Management Utilities Reference Manuals (I & II)*
*OpenVMS System Manager's Manuals (I & II)*
*OpenVMS VAX Version 6.2 Upgrade and Installation Manual*
*OpenVMS VAX Version 7.0 Upgrade and Installation Manual*
*Polycenter Software Installation Utlity Developer's Guide*
*TCP/IP Networking on OpenVMS Systems*
*VMScluster Systems for OpenVMS*

## Programming Manuals

*Creating an OpenVMS AXP Step 2 Device Driver from an OpenVMS VAX Device Driver*
*Creating an OpenVMS AXP Step 2 Device Driver from a Step 1 Device Driver*
*DEC Text Processing Utility Reference Manual*
*DPML, Digital Portable Mathematics Library*
*Guide to Creating OpenVMS Modular Procedures*
*Guide to DEC Text Processing Utility*
*Guide to DECthreads (6.1)*
*Guide to DECthreads (7.0)*
*Guide to OpenVMS File Applications*
*Migrating an Application from OpenVMS VAX to OpenVMS Alpha*
*Migrating to an OpenVMS AXP System: Planning for Migration*
*Migrating to an OpenVMS AXP System: Recompiling and Relinking Applications*
*Migrating to an OpenVMS AXP System: Porting VAX MACRO Code*
*OpenVMS Alpha Guide to 64–Bit Addressing*
*OpenVMS Alpha Guide to Upgrading Priviledged–Code Applications*
*OpenVMS AXP Device Support: Developer's Guide*
*OpenVMS AXP Device Support Reference*
*OpenVMS AXP System Dump Analyzer Utility Manual*
*OpenVMS Calling Standard (6.1)*
*OpenVMS Calling Standard (7.0)*
*OpenVMS Command Definition, Librarian, and Message Utilities Manual*
*OpenVMS Debugger Manual (6.1)*
*OpenVMS Debugger Manual (7.0)*
*OpenVMS Delta/XDelta Debugger Manual*
*OpenVMS Linker Utility Manual*
*OpenVMS I/O User's Reference Manual*
*OpenVMS Programming Concepts Manual*
*OpenVMS Programming Environment Manual*
*OpenVMS Programming Interfaces: Calling a System Routine*
*OpenVMS Record Management Services Reference Manual*
*OpenVMS Record Management Utilities Reference Manual*
*OpenVMS RTL Screen Management (SMG$) Manual*
*OpenVMS RTL String Manipulation (STR$) Manual*
*OpenVMS RTL Library (LIB$) Manual (6.1)*
*OpenVMS RTL Library (LIB$) Manual (7.0)*
*OpenVMS RTL General Purpose (OTS$) Manual*
*OpenVMS RTL Parallel Processing (PPL$) Manual*
*OpenVMS RTL Mathematics (MTH$) Manual*
*OpenVMS System Services Reference Manual (I & II) (6.1)*
*OpenVMS System Services Reference Manual (I & II) (7.0)*
*OpenVMS Utility Routines Manual*
*OpenVMS VAX Device Support Manual*
*OpenVMS VAX Device Support Reference Manual*
*OpenVMS VAX System Dump Analyzer Utility Manual*

***This table does not include OpenVMS VAX installation supplements (see Section 5) or OpenVMS achived manuals (see Section 6).***

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## 3.3 System Integrated Products

Volume Shadowing for OpenVMS, RMS Journaling for OpenVMS, and OpenVMS Clusters are System Integrated Products (SIPs). They are included in the OpenVMS software, but you must purchase separate licenses to enable them. The OpenVMS Cluster documentation is included in the OpenVMS Full Documentation Set, but the documentation for Volume Shadowing and RMS Journaling must be purchased separately. Table 2 lists the order numbers for individual SIPs manuals. See Section A.4 for a description of each manual.

**Table 2 Order Numbers for SIPs Manuals**

| Title | Order Number |
|---|---|
| *Volume Shadowing for OpenVMS* | AA–PVXMC–TE |
| *RMS Journaling for OpenVMS Manual* | AA–JG41C–TE |

## 3.4 Online Help

The OpenVMS operating system provides online help for the commands, utilities, and system routines documented in the Full Documentation Set.

## 3.5 Help Message

You can use the Help Message facility to quickly access online descriptions of system messages. In addition, you can add your own source files, such as messages documentation that you have written to the Help Message database. The manual *OpenVMS System Messages: Companion Guide for Help Message Users* explains how to use the Help Message facility. You can also access DCL Help for Help Message by entering:

```
$ HELP HELP/MESSAGE
```

## 3.6 Documentation on OpenVMS VAX Installation Media

VAX

The installation procedure for OpenVMS VAX Version 7.0 includes options to allow you to print, in ASCII text format, the *OpenVMS Glossary*, the *OpenVMS Master Index*, and the *Overview of OpenVMS Documentation*.♦

# 4 Upgrade and Installation Documentation

Your installation information includes an installation and upgrade manual for your system plus the *OpenVMS License Management Utility Manual*. The *OpenVMS License Management Utility Manual* is included in all OpenVMS media kits. This manual describes the License Management Facility (LMF), the software license management tool. LMF includes the License Management Utility (LICENSE) and the command procedure VMSLICENSE.COM, which is used to register, manage, and track software licenses on line.

Alpha

OpenVMS Alpha customers receive the *OpenVMS Alpha Version 7.0 Upgrade and Installation Manual*. This manual contains step-by-step upgrade and installation information as well as device-naming and booting information.

For OpenVMS Alpha Version 7.0, use the POLYCENTER Software Installation utility to install the operating system. Complete installation information for OpenVMS Alpha Version 7.0 is available in the *OpenVMS Alpha Version 7.0 Upgrade and Installation Manual*.♦

VAX

On OpenVMS VAX, the *OpenVMS VAX Version 7.0 Upgrade and Installation Manual* is your primary source for step-by-step upgrade and installation procedures using the VMSINSTAL utility. Start any Version 7.0 installation or upgrade by following the instructions in the *OpenVMS VAX Version 7.0 Upgrade and Installation Manual*, which is included in your media kit.

In addition to the *OpenVMS VAX Version 7.0 Upgrade and Installation Manual*, you receive one or more upgrade and installation supplements with your media kit. These manuals contain information specific to your VAX computer. Use your computer-specific supplement in conjunction with the *OpenVMS VAX Version 7.0 Upgrade and Installation Manual* when you install or upgrade your system software.♦

## 4.1 Upgrade and Installation Supplements

Table 3 lists the titles and the order numbers for the upgrade and installation manuals and supplements. Note that you will receive upgrade and installation manuals and the *OpenVMS License Management Utility Manual* with your software media.

**Table 3 Order Numbers for Upgrade and Installation Documents**

| Manual | Order Number |
|---|---|
| **Upgrade and Installation Manuals** | |
| *OpenVMS Alpha Version 6.2 Upgrade and Installation Manual* | AA–PV6XC–TE |
| *OpenVMS Alpha Version 7.0 Upgrade and Installation Manual* | AA–QSE8A–TE |
| *OpenVMS VAX Version 6.2 Upgrade and Installation Manual* | AA–PV6WC–TE |
| *OpenVMS VAX Version 7.0 Upgrade and Installation Manual* | AA–QSBQA–TE |
| *License Management Utility Manual* | AA–PVXUC–TK |

(continued on next page)

**Table 3 (Cont.) Order Numbers for Upgrade and Installation Documents**

| Manual | Order Number |
|---|---|
| **Optionally Orderable VAX Upgrade and Installation Supplements** | |
| *OpenVMS VAX Upgrade and Installation Supplement: VAX 7000 Series and VAX 10000 Series* | AA–PVXTA–TE |
| *OpenVMS VAX Upgrade and Installation Supplement: VAX 9000 Series* | AA–PS6TA–TE |
| *OpenVMS VAX Upgrade and Installation Supplement: VAXstation 3100, 4000 and MicroVAX 3100 Series* | AA–PS6SA–TE |
| *OpenVMS VAX Upgrade and Installation Supplement: VAX 6000 Series* | AA–PS6NA–TE |
| *VMS Installation and Operations: VAX–11/730* | AA–LB31B–TE |
| *OpenVMS VAX Installation and Operations: VAXstation II, II/GPX and MicroVAX II* | AA–PS6ZA–TE |
| *OpenVMS VAX Upgrade and Installation Supplement: VAXstation 3520, 3540* | AA–PS6LA–TE |
| *OpenVMS Upgrade/Installation: VAX 4000 Series, MicroVAX, VAXstation, and VAXserver 32/33/34/35/36/38/3900 Series* | AA–PS6RA–TE |
| *OpenVMS VAX Upgrade and Installation Supplement: VAXstation 2000, MicroVAX 2000* | AA–PS6YA–TE |

## 4.2 Archived Installation Supplements

Table 4 lists installation supplements that have been archived and are no longer available on the OpenVMS kit. However, they can be ordered from DECdirect using the order numbers below. These supplements are also available on the Documentation CD–ROM in printable PostScript format. For information about how to print these supplements from the Documentation CD–ROM, see *Guide to OpenVMS Version 7.0 CD–ROMs*.

**Table 4 Order Numbers for Archived Installation Supplements**

| Manual | Order Number |
|---|---|
| *OpenVMS VAX Upgrade and Installation Supplement: VAX 8820, 8830, 8840* | AA–PS6MA–TE |
| *OpenVMS VAX Upgrade and Installation Supplement: VAX 8200, 8250, 8300, 8350* | AA–PS6PA–TE |
| *OpenVMS VAX Upgrade and Installation Supplement: VAX 8530, 8550, 8810 (8700), and 8820–N (8800)* | AA–PS6QA–TE |
| *OpenVMS VAX Upgrade and Installation Supplement: VAX 8600, 8650* | AA–PS6UA–TE |
| *VMS Upgrade and Installation Supplement: VAX–11/780, 785* | AA–LB29B–TE |

(continued on next page)

**Table 4 (Cont.) Order Numbers for Archived Installation Supplements**

| Manual | Order Number |
|---|---|
| *VMS Upgrade and Installation Supplement: VAX–11/750* | AA–LB30B–TE |

# 5 OpenVMS Archived Books

This section lists the OpenVMS manuals that have been archived since OpenVMS Version 6.2. Please note the following.

- Archived books can be ordered separately in hardcopy format through Software Supply Business (SSB).
- Archived books are also available in PostScript format on CD–ROM and tape.

**Table 5 Archived OpenVMS Manuals**

| Manual | Order Number |
|---|---|
| *OpenVMS RTL Parallel Processing (PPL$) Manual* | AA–PV6JA–TK |
| *OpenVMS Developer's Guide to VMSINSTAL* | AA–PWBXA–TE |
| *OpenVMS System Messages and Recovery Procedures Reference Manual: A–L* | AA–PVXKA–TE |
| *OpenVMS System Messages and Recovery Procedures Reference Manual: M–Z* | AA–PVXLA–TE |
| *OpenVMS Wide Area Network I/O User's Reference Manual* | AA–PWC7A–TE |
| *OpenVMS VAX Card Reader, Line Printer, and LPA11–K I/O User's Reference Manual* | AA–PVXGA–TE |
| *OpenVMS Terminal Fallback Utility Manual* | AA–PS6BA–TE |
| *OpenVMS RTL DECtalk (DTK$) Manual* | AA–PS6CA–TE |
| *OpenVMS SUMSLP Utility Manual* | AA–PS6EA–TE |
| *OpenVMS National Character Set Utility Manual* | AA–PS6FA–TE |
| *OpenVMS EDT Reference Manual* | AA–PS6KA–TE |
| *OpenVMS DIGITAL Standard Runoff Reference Manual* | AA–PS6HA–TE |
| *OpenVMS Bad Block Locator Utility Manual* | AA–PS69A–TE |
| *OpenVMS Exchange Utility Manual* | AA–PS6AA–TE |
| *OpenVMS VAX Patch Utility Manual* | AA–PS6DA–TE |
| *OpenVMS Obsolete Features Manual* | AA–PS6JA–TE |
| *PDP–11 TECO User's Guide* [1] | AA–K420B–TC |

[1]This manual has been archived and is not available as a PostScript file, but you can order it through DECdirect.

# 6 OpenVMS Documentation CD–ROM

This section contains information about the contents of the OpenVMS Documentation CD–ROM.

## 6.1 Online Documentation

All OpenVMS documentation is available in online books that can be viewed with the DECwindows Bookreader or the DECwindows Motif Bookreader.

For this release, OpenVMS is providing a separate documentation CD–ROM to all OpenVMS customers. The documentation CD–ROM contains the OpenVMS Full Documentation Set in Bookreader format as well as documentation for the following layered products:

- DCE
- DECamds
- DECmigrate
- DECnet/OSI
- DECwindows Motif for OpenVMS
- Digital TCP/IP Services
- Monitoring Performance History (MPH)
- SoftWindows
- SoftPC
- System Healthcheck
- Wind/U

For more information about the OpenVMS CD–ROM kit, refer to the *Guide to OpenVMS Version 7.0 CD–ROMs*.

## 6.2 Printable Documentation

The OpenVMS Documentation CD–ROM contains printable files. Table 6 lists the OpenVMS manuals available in ASCII text and PostScript formats on the OpenVMS Documentation CD–ROM.

In addition to the OpenVMS Documentation, some printable files of associated layered products are available on the CD–ROM. For more information about this documentation, see the *Guide to OpenVMS Version 7.0 CD–ROMs*.

**Table 6 Printable Files on the OpenVMS Documentation CD–ROM**

| Document | File Name |
|---|---|
| *OpenVMS Version 7.0 Release Notes* | V70_REL_NOTES.[PS,TXT] |
| *OpenVMS Version 7.0 New Features Manual* | V70_NEW_FEATURES.[PS,TXT] |
| *OpenVMS VAX Version 7.0 Upgrade and Installation Manual* | V70_VAX_INSTALL.[PS,TXT] |
| *OpenVMS Alpha Version 7.0 Upgrade and Installation Manual* | V70_ALPHA_INSTALL.[PS,TXT] |
| *Guide to OpenVMS Version 7.0 CD–ROMs* | V70_CD_GD.[PS] |
| *OpenVMS Master Index* | V70_INDEX.[TXT] |
| *Overview of OpenVMS Documentation* | V70_OVERVIEW.[TXT] |

(continued on next page)

**Table 6 (Cont.) Printable Files on the OpenVMS Documentation CD–ROM**

| Document | File Name |
|---|---|
| *OpenVMS for Alpha and VAX Version 7.0 SPD* | V70_SPD.[PS,TXT] |
| *DECnet for OpenVMS SPD* | DECNET_SPD.[PS,TXT] |
| *RMS Journaling for OpenVMS SPD* | RMS_SPD.[PS,TXT] |
| *Volume Shadowing for OpenVMS SPD* | VOL_SHAD_SPD.[PS,TXT] |
| *OpenVMS Cluster Software SPD* | CLUSTER_SPD.[PS,TXT] |
| *OpenVMS RTL General Purpose (OTS$) Manual* | V70_RTL_OTS.[PS] |
| *OpenVMS I/O User's Reference Manual* | V70_IO_REF.[PS] |
| *OpenVMS Software Overview* | V70_SOFT_OVER.[PS] |
| *OpenVMS Record Management Services Reference Manual* | V70_RMS_REF.[PS] |
| *OpenVMS RTL String Manipulation (STR$) Manual* | V70_RTL_STR.[PS] |
| *OpenVMS Linker Utility Manual* | V70_LINKER.[PS] |
| *OpenVMS RTL Screen Management (SMG$) Manual* | V70_RTL_SMG.[PS] |
| *OpenVMS Alpha System Dump Analyzer Utility Manual* | V70_ALPHA_SDA.[PS] |
| *OpenVMS Utility Routines Manual* | V70_UTIL_ROUTINES.[PS] |
| *OpenVMS User's Manual* | V70_USER.[PS] |
| *POLYCENTER Software Installation Utility Developer's Guide* | V70_PCSI_GD.[PS] |
| *OpenVMS DCL Dictionary: A–M* | V70_DCLDICT_REF1.[PS] |
| *OpenVMS DCL Dictionary: N–Z* | V70_DCLDICT_REF2.[PS] |
| *OpenVMS System Manager's Manual: Essentials* | V70_SYSMAN_MAN1.[PS] |
| *OpenVMS System Manager's Manual: Tuning, Monitoring, and Complex Systems* | V70_SYSMAN_MAN2.[PS] |
| *OpenVMS Programming Concepts Manual* | V70_PROG_CON.[PS] |
| *DECamds User's Guide* | V70_DECAMDS.[PS] |

For more information about the OpenVMS CD–ROM kit, refer to the *Guide to OpenVMS Version 7.0 CD–ROMs*.

# 7 Restructured Documentation Sets

For the OpenVMS AXP Version 1.5 and OpenVMS VAX Version 6.0 releases, OpenVMS introduced a restructured information set for the OpenVMS operating system.

Many of the most commonly-used manuals (for example, the *DCL Dictionary*) continue to be published and revised under the same or very similar titles. Other manuals were discontinued and their information was moved into other manuals. Table 7 shows where information from those discontinued manuals can be found in the OpenVMS Version 7.0 documentation.

**Table 7 Where to Find Information**

| Discontinued Manual | New Location Version 7.0 |
|---|---|
| **General User** | |
| *VMS General User Master Index* | Discontinued |
| *Introduction to VMS*<br>*Guide to Using VMS*<br>*VMS DCL Concepts Manual*<br>*Guide to Using VMS Command Procedures* | *OpenVMS User's Manual* |
| *VMS Mail Utility Manual*<br>*VMS Sort/Merge Utility Manual*<br>*VMS Phone Utility Manual* | *OpenVMS User's Manual*<br>Online Help |
| *Guide to VMS Text Processing* | *OpenVMS User's Manual*<br>*Extensible Versatile Editor Reference Manual*<br>*OpenVMS DIGITAL Standard Runoff Reference Manual*<br>*OpenVMS EDT Reference Manual*<br>Online Help |
| *Guide to VMS Files and Devices* | *OpenVMS System Manager's Manual* |
| **System Management** | |
| *POLYCENTER Software Installation Utility User's Guide* | *OpenVMS System Manager's Manual* |
| *VMS System Management Master Index* | Discontinued |
| *Introduction to VMS System Management*<br>*Guide to Setting Up a VMS System*<br>*Guide to Maintaining a VMS System*<br>*Using VMS BACKUP* | *OpenVMS System Manager's Manual* |

(continued on next page)

**Table 7 (Cont.) Where to Find Information**

| Discontinued Manual | New Location Version 7.0 |
|---|---|
| **System Management** | |
| *VMS SYSMAN Utility Manual*<br>*VMS Install Utility Manual*<br>*VMS LAT Control Program (LATCP) Manual*<br>*VMS System Generation Utility Manual*<br>*VMS Analyze/Disk_Structure Utility Manual*<br>*VMS Backup Utility Manual*<br>*VMS Error Log Utility Manual*<br>*VMS Mount Utility Manual*<br>*VMS Access Control List Editor Manual*<br>*VMS Authorize Utility Manual*<br>*VMS Audit Analysis Utility Manual*<br>*VMS Accounting Utility Manual*<br>*VMS Monitor Utility Manual*<br>*VMS Show Cluster Utility Manual* | *OpenVMS System Management Utilities Reference Manual*<br>Online Help |
| *VMS Exchange Utility Manual*<br>*VMS Terminal Fallback Utility Manual*<br>*VMS Bad Block Locator Utility Manual* | *OpenVMS System Manager's Manual*<br>Online Help |
| *Guide to DECnet–VAX Networking* | *DECnet for OpenVMS Guide to Networking* |
| *VMS Networking Manual* | *DECnet for OpenVMS Networking Manual* |
| *VMS DECnet Test Sender/DECnet Test Receiver Utility Manual*<br>*VMS Network Control Language Reference Manual* | *DECnet for OpenVMS Network Management Utilities*<br>Online Help |
| *VMS LAD Control Program (LADCP) Manual* | *OpenVMS System Manager's Manual*<br>*InfoServer System Operations Guide*<br>*InfoServer Client for OpenVMS LASTCP and LADCP Utilities*<br>Online Help |

| Discontinued Manual | New Location of Information |
|---|---|
| **Programming** | |
| *Guide to VMS Programming Resources* | *OpenVMS Programming Environment Manual*<br>*OpenVMS Programming Concepts Manual* |

(continued on next page)

**Table 7 (Cont.) Where to Find Information**

| Discontinued Manual | New Location of Information |
|---|---|
| **Programming** | |
| *VMS Command Definition Utility Manual*<br>*VMS Librarian Utility Manual*<br>*VMS Message Utility Manual* | *OpenVMS Command Definition, Librarian, and Message Utilities Manual*<br>Online Help |
| *VMS Analyze/RMS_File Utility Manual*<br>*VMS Convert and Convert/Reclaim Utility Manual*<br>*VMS File Definition Language Facility Manual* | *OpenVMS Record Management Utilities Reference Manual*<br>Online Help |
| *Introduction to VMS System Routines* | *OpenVMS Programming Interfaces: Calling a System Routine*<br>*OpenVMS Calling Standard* |
| *Introduction to the VMS Run-Time Library* | *OpenVMS Programming Interfaces: Calling a System Routine* |
| *Introduction to VMS System Services* | *OpenVMS Programming Concepts Manual*<br>*OpenVMS Programming Interfaces: Calling a System Routine* |
| *Migrating to an OpenVMS AXP System: Planning for Migration* | *Migrating an Application from OpenVMS VAX to OpenVMS Alpha* |
| *Migrating to an OpenVMS AXP System: Recompiling and Relinking Applications* | *Migrating an Application from OpenVMS VAX to OpenVMS Alpha* |
| *OpenVMS Compatibility Between VAX and Alpha* | *Migrating an Environment from OpenVMS VAX to OpenVMS Alpha* |
| *A Comparison of System Management on OpenVMS AXP and OpenVMS VAX* | *Migrating an Environment from OpenVMS VAX to OpenVMS Alpha* |
| *VAX Text Processing Utility Manual* | *DEC Text Processing Utility Reference Manual*<br>Online Help |
| *VMS I/O User's Reference Manual: Part I* | *OpenVMS I/O User's Reference Manual*, except Chapters 2, 4, and 5, which are in the *OpenVMS VAX Card Reader, Line Printer, and LPA11–K I/O User's Reference Manual* |

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**Table 7 (Cont.) Where to Find Information**

| Discontinued Manual | New Location of Information |
|---|---|
| **Programming** | |
| *VMS I/O User's Reference Manual: Part II* | Chapters 1 through 5: *OpenVMS Wide Area Network I/O User's Reference Manual*<br>Chapter 6, Ethernet/802 Device Drivers: *OpenVMS I/O User's Reference Manual* |

| Archived Manual[1] | Order Number |
|---|---|
| *OpenVMS RTL Parallel Processing (PPL$) Manual* | AA–PV6JA–TK |
| *OpenVMS Developer's Guide to VMSINSTAL* | AA–PWBXA–TE |
| *OpenVMS System Messages and Recovery Procedures Reference Manual: A–L* | AA–PVXKA–TE |
| *OpenVMS System Messages and Recovery Procedures Reference Manual: M–Z* | AA–PVXLA–TE |
| *OpenVMS Wide Area Network I/O User's Reference Manual* | AA–PWC7A–TE |
| *OpenVMS VAX Card Reader, Line Printer, and LPA11–K I/O User's Reference Manual* | AA–PVXGA–TE |
| *OpenVMS Terminal Fallback Utility Manual* | AA–PS6BA–TE |
| *OpenVMS RTL DECtalk (DTK$) Manual* | AA–PS6CA–TE |
| *OpenVMS SUMSLP Utility Manual* | AA–PS6EA–TE |
| *OpenVMS National Character Set Utility Manual* | AA–PS6FA–TE |
| *OpenVMS EDT Reference Manual* | AA–PS6KA–TE |
| *OpenVMS DIGITAL Standard Runoff Reference Manual* | AA–PS6HA–TE |
| *OpenVMS Bad Block Locator Utility Manual* | AA–PS69A–TE |
| *OpenVMS Exchange Utility Manual* | AA–PS6AA–TE |
| *OpenVMS VAX Patch Utility Manual* | AA–PS6DA–TE |
| *OpenVMS Obsolete Features Manual* | AA–PS6JA–TE |
| *PDP–11 TECO User's Guide* [1] | AA–K420B–TC |

[1] Archived manuals are available on the Documentation CD–ROM in PostScript format. See Table 6.

# A
# Book Descriptions

This appendix describes each manual in the OpenVMS documentation set. The following table lists the section where the books in a specific set are described.

| Descriptions Of | See Section |
|---|---|
| Manuals in the OpenVMS Base Documentation Set | A.1 |
| Manuals in the OpenVMS Documentation Set | A.2 |
| Manuals in the Media Kit | A.3 |
| System integrated products manuals | A.4 |
| Archived manuals | A.5 |

## A.1 Base Documentation Set Descriptions

The following sections describe each manual in the Base Documentation Set:

### *Migrating an Application from OpenVMS VAX to OpenVMS Alpha*

Describes how to create an OpenVMS Alpha version of an OpenVMS VAX application. It provides an overview of the VAX to Alpha migration process and information to help you plan a migration. It discusses the decisions you must make in planning a migration and the ways to get the information you need to make those decisions. In addition, it describes the migration methods available so that you can estimate the amount of work required for each method and select the method best suited to a given application.

### *Migrating an Environment from OpenVMS VAX to OpenVMS Alpha*

Describes how to migrate a computing environment from an OpenVMS VAX system to an OpenVMS Alpha system or a mixed-architecture cluster. It provides an overview of the VAX to Alpha migration process and describes the differences in system and network management on VAX and Alpha computers.

### *OpenVMS Compatibility Between VAX and Alpha*

Compares and contrasts OpenVMS on VAX and Alpha computers, focusing on the features provided to end users, system managers, and programmers.

### *OpenVMS DCL Dictionary*

Describes the DIGITAL Command Language (DCL) and provides an alphabetical listing of detailed reference information and examples for all DCL commands and lexical functions. This manual is in two parts.

### *OpenVMS Guide to System Security*

Describes the security features available in the OpenVMS Alpha and VAX operating systems. It explains the purpose and proper application of each feature in the context of specific security needs.

### *OpenVMS Management Station Overview and Release Notes*

Provides an overview of OpenVMS Management Station and describes how to get started using the software. OpenVMS Management Station is a powerful, Microsoft Windows based management tool for system managers and others who perform account management tasks on OpenVMS systems. OpenVMS Management Station provides a comprehensive user interface to OpenVMS system account management. This document also includes release notes for OpenVMS Management Station.

### *OpenVMS Master Index* (Versions 6.2 and 7.0)

Offer an edited compilation of indexes from the books in the Full Documentation Set.

For OpenVMS Version 7.0, the *OpenVMS Master Index* is also available in a Bookreader version.

**Note**

Index entries shown in the Bookreader version of the *OpenVMS Master Index* refer to page numbers in the hardcopy manuals.

### *OpenVMS System Management Utilities Reference Manual*

Presents reference information on the utilities you can use to perform system management tasks on your system as well as the tools to control and monitor system access and resources. In addition to system management utilities, a description of the AUTOGEN command procedure is included in this two-part manual.

### *OpenVMS System Manager's Manual*: *Essentials*

Provides system managers of small standalone systems with descriptions of the procedures they need to manage daily operations on an OpenVMS system. It provides instructions for setting up and maintaining routine operations, such as starting up the system, installing software, and setting up print and batch queues. It also documents routine disk and magnetic tape operations.

### *OpenVMS System Manager's Manual*: *Tuning, Monitoring, and Complex Systems*

Describes configuring and controlling the network, monitoring the system and performance, and managing system parameters. The manual also includes information on VMScluster environments and DECdtm functionality.

### *OpenVMS User's Manual*

Provides an overview of the operating system and presents basic concepts, task information, and reference information that enable you to perform daily computing tasks. It describes how to work with files and directories. It also includes these additional topics:

- Sending messages with the Mail utility and the Phone utility
- Using the Sort/Merge utility
- Using logical names and symbols
- Writing command procedures
- Editing files with the EVE and EDT text editors
- Processing files with DIGITAL Standard Runoff (DSR)

***OpenVMS Version 6.2 New Features Manual* and *OpenVMS Version 7.0 New Features Manual***

The describe new and improved components for the Alpha and VAX operating systems for the Version 6.2 and Version 7.0 releases.

***OpenVMS Version 6.2 Release Notes* and *OpenVMS Version 7.0 Release Notes***

Describe temporary problems and bug fixes to the Alpha and VAX operating systems. They also list layered product versions supported by OpenVMS Version 6.2 and OpenVMS Version 7.0.

***OpenVMS Version 6.2 Release Notes Addendum***

Describes temporary problems and bug fixes to the Alpha and VAX operating systems.

***Overview of OpenVMS Documentation* and (Version 6.2 and Version 7.0)**

The manual, Version 7.0 of which you are now reading, is a general introduction to the documentation set. This manual explains how the set is organized and describes all its components. It also lists order numbers and provides ordering information.

***TCP/IP Networking on OpenVMS Systems***

Provides an introductory overview of TCP/IP networking and describes OpenVMS DCL support for TCP/IP capabilities.

## A.2 Documentation Set Descriptions

***A Comparison of System Management on OpenVMS AXP and OpenVMS VAX***

Discusses system management tools, the impact of Alpha page sizes on system management operations, the system directory structure, interoperability issues, and performance information. This manual is designed for system managers who need to learn quickly how to manage an OpenVMS Alpha system.

***Building Dependable Systems: The OpenVMS Approach***

Offers practical information about analyzing the dependability requirements of your business applications and deciding how to use your computing systems to support your dependability goals. This information is complemented by technical summaries of the dependability features of OpenVMS and related hardware and layered software products.

***Creating an OpenVMS AXP Step 2 Device Driver from a Step 1 Device Driver***

Provides information for upgrading a Step 1 device driver (used in earlier versions of OpenVMS AXP) to a Step 2 device driver. A Step 2 device driver is required for OpenVMS AXP Version 6.1.

***Creating an OpenVMS AXP Step 2 Device Driver from an OpenVMS VAX Device Driver***

Provides information for migrating a device driver used on OpenVMS VAX to a Step 2 device driver used on OpenVMS AXP Version 6.1.

***DECamds User's Guide***

Provides information for installing and using the DECamds software. DECamds was previously available only as an optional product. For OpenVMS Alpha Version 6.2 and OpenVMS VAX Version 6.2, DECamds is available to users who have a VMSclusters license. DECamds is a system management tool that lets you monitor and track certain events in a VMScluster environment.

### *DECnet for OpenVMS Guide to Networking*

Introduces networking on an OpenVMS system. This guide presents a basic overview of networking, summarizes user and manager network operations, and describes the procedures for bringing up the network and keeping it running.

### *DECnet for OpenVMS Networking Manual*

Covers network management concepts, tasks, procedures, and programming operations.

### *DECnet for OpenVMS Network Management Utilities*

Contains command information for the Network Control Program (NCP) and the DTS/DTR utility. This document is for users responsible for network testing and management.

### *Digital Portable Mathematics Library*

Documents the mathematics routines in the Digital Portable Mathematics Library (DPML), supplied only with OpenVMS Alpha systems. VAX programmers should refer to the *OpenVMS VAX RTL Mathematics (MTH$) Manual*.

### *Extensible Versatile Editor Reference Manual*

Contains command reference information about the EVE text editor. It also provides a cross-reference between EDT and EVE commands.

### *Guide to Creating OpenVMS Modular Procedures*

Describes how to perform a complex programming task by dividing it into modules and coding each module as a separate procedure.

### *Guide to the DEC Text Processing Utility*

Introduction to developing DECTPU programs.

### *Guide to DECthreads* (Version 6.1 and Version 7.0)

Describe DECthreads functionality, Digital's multithreading run-time library. The routines are used for creating and controlling multiple threads of execution within the address space provided by a single process. This manual documents two interfaces to DECthreads: a stable, upwardly compatible interface called *cma* and an interface that adheres to the evolving POSIX standard 1003.4a, called *pthread*.

### *DEC Text Processing Utility Reference Manual*

Describes the DEC Text Processing Utility (DECTPU) and provides reference information about the EDT Keypad Emulator interfaces to DECTPU.

### *Guide to OpenVMS AXP Performance Management*

Introduces and explains the techniques used to optimize performance on an OpenVMS Alpha system.

### *Guide to OpenVMS File Applications*

Contains guidelines for designing, creating, and maintaining efficient data files by using Record Management Services (RMS). This manual is intended for application programmers and designers responsible for programs that use RMS files, especially if performance is an important consideration.

### *Guide to OpenVMS Performance Management*

Introduces and explains the techniques used to optimize performance on an OpenVMS VAX system.

### *Guidelines for VMScluster Configurations*

Provides configuration information for VMSclusters, especially those in a mixed-architecture environment.

### *Migrating to an OpenVMS AXP System: Planning for Migration*

Describes the general characteristics of RISC architectures, compares the Alpha architecture to the VAX architecture, and presents an overview of the migration process and a summary of migration tools provided by Digital. The information in this manual is intended to help you define the optimal migration strategy for your application.

### *Migrating to an OpenVMS AXP System: Recompiling and Relinking Applications*

Provides detailed technical information for programmers who must migrate high-level language applications to OpenVMS Alpha. This manual describes how to set up a development environment to facilitate the migration of applications, helps programmers identify application dependencies on elements of the VAX architecture, and introduces compiler features that help resolve these dependencies. Individual sections of this manual discuss specific application dependencies on VAX architectural features, data porting issues (such as alignment concerns), and the process of migrating VAX shareable images.

### *Porting VAX MACRO Code from OpenVMS VAX to OpenVMS Alpha*

Describes how you can port existing VAX MACRO assembly language code to an OpenVMS Alpha system by using the features of the MACRO-32 compiler. It provides information to help you identify and correct VAX MACRO code that relies on elements of the VAX architecture. The manual examines the function of each compiler directive and built-in, explaining the circumstances under which it is necessary to add a directive or built-in to VAX MACRO assembly language code. It also discusses the qualifiers that govern the behavior of the compiler.

### *OpenVMS Alpha Guide to 64-Bit Addressing*

Introduces and describes OpenVMS Alpha operating system support for 64-bit virtual addressing. Intended for system and application programmers, this guide presents an overview of the OpenVMS Alpha 64-bit virtual address space layout and describes OpenVMS Alpha tools and languages that support 64-bit addressing.

### *OpenVMS Alpha Guide to Upgrading Privileged-Code Applications*

Explains the OpenVMS Alpha Version 7.0 changes that may impact Alpha privileged-code applications and device drivers. This guide contains information that applies to any application that links against the OpenVMS Alpha base system image SYS$BASE_IMAGE.EXE.

### *OpenVMS AXP Device Support: Developer's Guide*

Describes how to write a driver for OpenVMS Alpha for a device not supplied by Digital.

### *OpenVMS AXP Device Support: Reference*

Provides the reference material for the *OpenVMS Alpha Device Support: Developer's Guide* by describing the data structures, macros, and routines used in device-driver programming.

### *OpenVMS AXP System Dump Analyzer Utility Manual*

Explain how to use the System Dump Analyzer utility to investigate system failures and examine a running OpenVMS Alpha system. Alpha programmers should refer to this manual; VAX programmers should refer to the *OpenVMS VAX System Dump Analyzer Utility Manual*.

### *OpenVMS Calling Standard* (Version 6.2 and Version 7.0)

Document the calling standard for the operating system. This manual indicates aspects of the calling standard that are specific to OpenVMS Alpha or OpenVMS VAX.

### *OpenVMS Command Definition, Librarian, and Message Utilities Manual*

Contains descriptive and reference information about the following utilities:

- Command Definition utility
- Librarian utility
- Message utility

### *OpenVMS Debugger Manual* (Version 6.1 and Version 7.0)

Explains the features of the OpenVMS Debugger for programmers.

### *OpenVMS Delta/XDelta Debugger Manual*

Describes the Delta/XDelta utility used to debug programs that run in privileged processor mode or at an elevated interrupt priority level.

### *OpenVMS Glossary*

Defines terms specific to OpenVMS that are used throughout the documentation.

### *OpenVMS I/O User's Reference Manual*

Contains the information that system programmers need to program I/O operations using the device drivers that are supplied with the operating system.

### *OpenVMS Linker Utility Manual*

Describes how to use the Linker utility to create images that run on either VAX or Alpha systems and how you can control a link operation with link qualifiers and link options.

### *OpenVMS Programming Environment Manual*

Provides a general description of Digital products and tools that define the programming environment. This manual introduces facilities and tools such as the compilers, the linker, the debugger, the System Dump Analyzer, system services, and routine libraries.

### *OpenVMS Programming Concepts Manual*

Describes concepts such as process creation, interprocess communication, data sharing, condition handling, and ASTs. This manual uses system services, utility routines, and run-time library (RTL) routines to illustrate mechanisms for utilizing OpenVMS features.

### *OpenVMS Programming Interfaces: Calling a System Routine*

Describes the OpenVMS interface for procedure-to-procedure calls and how to call a system service or RTL procedure. It also describes how you represent data types in the various high-level languages supported on OpenVMS.

### *OpenVMS Record Management Utilities Reference Manual*

Contains descriptive and reference information about the following RMS utilities:

- Analyze/RMS_File utility
- Convert and Convert/Reclaim utilities
- File Definition Language facility

### *OpenVMS Record Management Services Reference Manual*

Provides reference and usage information for all programmers who use RMS data files.

### *OpenVMS RTL Library (LIB$) Manual* (Version 6.1 and Version 7.0)

Documents the general-purpose routines contained in the LIB$ facility of the OpenVMS Run-Time Library. This manual indicates which routines are specific to Alpha or VAX, as well as how routines function differently on each system.

### *OpenVMS RTL General Purpose (OTS$) Manual*

Documents the general-purpose routines contained in the OTS$ facility of the OpenVMS Run-Time Library. This manual indicates which routines are specific to Alpha or VAX, as well as how routines function differently on each system.

### *OpenVMS RTL Screen Management (SMG$) Manual*

Documents the screen management routines contained in the SMG$ facility of the OpenVMS Run-Time Library. This manual indicates which routines are specific to Alpha or VAX, as well as how routines function differently on each system.

### *OpenVMS RTL String Manipulation (STR$) Manual*

Documents the string manipulation routines contained in the STR$ facility of the OpenVMS Run-Time Library. This manual indicates which routines are specific to Alpha or VAX, as well as how routines function differently on each system.

### *OpenVMS Software Overview*

Provides an overview of the OpenVMS operating system and some of its available products.

### *OpenVMS System Messages: Companion Guide for Help Message Users*

Describes features of the Help Message facility, a tool that you can use to display message descriptions. The manual describes the HELP/MESSAGE command and qualifiers and also includes detailed information about customizing the Help Message database. The manual also provides descriptions of messages that can occur when the system and Help Message are not fully operable.

### *OpenVMS System Services Reference Manual* (Version 6.1 and Version 7.0)

Presents the set of routines that the operating system uses to control resources, allow process communication, control I/O, and perform other such operating system functions. This manual is in two parts.

### *OpenVMS Utility Routines Manual*

Describes the routines that allow a program to use the callable interface of selected OpenVMS utilities.

### *OpenVMS VAX Device Support Manual*

Describes how to write an OpenVMS VAX driver for a device not supplied by Digital.

### *OpenVMS VAX Device Support Reference Manual*

Provides the reference material for the *OpenVMS VAX Device Support Manual* by describing the data structures, macros, and routines used in device-driver programming.

### *OpenVMS VAX RTL Mathematics (MTH$) Manual*

Documents the mathematics routines contained in the MTH$ facility of the OpenVMS Run-Time Library, which is relevant only to programmers using OpenVMS VAX. (Alpha programmers should refer to *Digital Portable Mathematics Library*.)

### *OpenVMS VAX System Dump Analyzer Utility Manual*

Explains how to use the System Dump Analyzer utility to investigate system failures and examine a running OpenVMS VAX system. VAX programmers should refer to this manual; Alpha programmers should refer to the *OpenVMS Alpha System Dump Analyzer Utility Manual*.

### *POLYCENTER Software Installation Utility Developer's Guide*

Describes the procedure and provides guidelines for developing software products that will be installed using the POLYCENTER Software Installation utility. Intended for developers who are designing installation procedures for software products layered on the OpenVMS operating system.

### *VAX MACRO and Instruction Set Reference Manual*

Documents both the assembler directives of VAX MACRO and the VAX instruction set.

### *VMScluster Systems for OpenVMS*

Provides an overview of VMScluster environments and explains procedures for setting up and managing VMScluster configurations.

## A.3 Manuals in the Media Kit

### *Guide to OpenVMS Version 7.0 CD–ROMs*

Provides information about the OpenVMS Alpha and OpenVMS VAX operating system and documentation CD–ROMs. It lists the contents of the OpenVMS Version 7.0 CD–ROM package, includes pointers to installation information, and gives instructions on how to access books on the Documentation CD–ROM.

### *OpenVMS Alpha Version 6.2 Upgrade and Installation Manual* and *OpenVMS Alpha Version 7.0 Upgrade and Installation Manual*

Provide step-by-step instructions for installing and upgrading the OpenVMS Alpha operating system on Alpha computers. It also includes information about booting, shutdown, backup, and licensing procedures.

### *OpenVMS VAX Version 6.2 Upgrade and Installation Manual* and *OpenVMS VAX Version 7.0 Upgrade and Installation Manual*

Provide step-by-step instructions for installing and upgrading the OpenVMS VAX computers. It also includes information about booting, shutdown, backup, and licensing procedures.

### *OpenVMS License Management Utility Manual*

Describes the License Management Facility (LMF), the software license management tool. LMF includes the License Management Utility (LICENSE) and the command procedure VMSLICENSE.COM, which is used to register, manage, and track software licenses on line.

## A.4 System Integrated Products Documentation

***RMS Journaling for OpenVMS Manual***

Describes the three types of RMS Journaling as well as other OpenVMS components that support RMS Journaling. This manual also describes the RMS Recovery utility (which is used to recover data saved using journaling), the transaction processing system services, and system management tasks required when using RMS Journaling. You receive this manual when you purchase the RMS Journaling license.)

***Volume Shadowing for OpenVMS***

Describes how to provide high data availability with phase II volume shadowing. You receive this manual when you purchase the volume shadowing license.

## A.5 Archived Manual Descriptions

***OpenVMS Bad Block Locator Utility Manual***

Describes how to use the Bad Block Locator utility to locate bad blocks on older types of media.

***OpenVMS Developer's Guide to VMSINSTAL***

Describes the VMSINSTAL command procedure and provides guidelines for designing installation procedures that conform to standards recommended by Digital. Intended for developers who are designing installation procedures for software products layered on the OpenVMS operating system.

***OpenVMS DIGITAL Standard Runoff Reference Manual***

Describes the DSR text-formatting utility.

***OpenVMS EDT Reference Manual***

Contains complete reference information for the EDT editor.

***OpenVMS Exchange Utility Manual***

Describes how to use the Exchange utility to transfer files between some foreign format volumes and OpenVMS native volumes.

***OpenVMS National Character Set Utility Manual***

Describes how to use the National character set utility to build NCS definition files.

***OpenVMS Obsolete Features Manual***

Presents the DCL commands, system services, RTL routines, and utilities made obsolete by VMS Version 4.0 through Version 5.0. The manual also has an appendix of DCL commands, RTL routines, and utilities eliminated from VMS Version 4.0.)

***OpenVMS RTL DECtalk (DTK$) Manual***

Documents the DECtalk support routines contained in the DTK$ facility of the OpenVMS Run-Time Library.

***OpenVMS RTL Parallel Processing (PPL$) Manual***

Documents the parallel-processing routines contained in the PPL$ facility of the OpenVMS Run-Time Library. This manual indicates which routines are specific to Alpha or VAX, as well as how routines function differently on each system.

***OpenVMS SUMSLP Utility Manual***

Describes how to use the SUMSLP batch-oriented editor to update source files.

### *OpenVMS System Messages and Recovery Procedures Reference Manual*

Contains an alphabetical listing of the errors, warnings, and informational messages issued by the operating system. Also provides the meaning of each message and a statement of the action to be taken in response to each message. This manual is in two parts.

### *OpenVMS Terminal Fallback Utility Manual*

Describes how to use the Terminal Fallback utility to manage the libraries, character conversion tables, and terminal parameters that are available within this utility.

### *OpenVMS VAX Card Reader, Line Printer, and LPA11–K I/O User's Reference Manual*

Describes the card reader, laboratory peripheral accelerator, and line printer drivers on OpenVMS VAX.

### *OpenVMS VAX Patch Utility Manual*

Describes how to use the Patch utility to examine and modify executable and shareable OpenVMS VAX images.

### *OpenVMS Wide Area Network I/O User's Reference Manual*

Describes the DMC11/DMR11, DMP11 and DMF32, DR11–W and DRV11-WA, DR32, and asynchronous DDCMP interface drivers on OpenVMS VAX.

### *PDP–11 TECO User's Guide*

Describes the operating procedures for the PDP–11 TECO (Text Editor and Corrector) program.

### *POLYCENTER Software Installation Utility User's Guide*

Provides information on the POLYCENTER Software Installation utility, a new component that lets you install and manage software products that are compatible with the utility.