Software Product Library

CD–ROM User's Guide

AA–QDGSD–XE

This guide describes how to mount and control access to the Software Product Library CD–ROMs, use the CDMENU utility, access the contents of the CD–ROMs, and install layered products from the CD–ROMs.

This guide also describes how to access ECOs and MUPs for users who have purchased the Consolidated Software Engineering Change Order distribution.

Platforms Supported:	OpenVMS VAX OpenVMS Alpha Digital UNIX® (formerly DEC OSF/1®) ULTRIX VAX and ULTRIX RISC
Revision/Update Information:	This is a revised document.

Digital Equipment Corporation
Maynard, Massachusetts

July 1995

The optical disc publication and all component parts as appearing herein are copyrighted.

Digital Equipment Corporation makes no representations that the use of its products in the manner described in this publication will not infringe on existing or future patent rights, nor do the descriptions contained in this publication imply the granting of licenses to make, use, or sell equipment or software in accordance with the description.

Possession, use, or copying of the software described in this publication is authorized only pursuant to a valid written license from Digital or an authorized sublicensor.

© Digital Equipment Corporation 1995. All rights reserved.

The following are trademarks of Digital Equipment Corporation: Digital, DOCUMENT, OpenVMS, POLYCENTER, ULTRIX, VAX, VAXcluster, VMS, and the DIGITAL logo.

The following are third-party trademarks:

PostScript is a registered trademark of Adobe Systems, Incorporated.
OSF/1 is a registered trademark of the Open Software Foundation, Inc.
UNIX is a registered trademark in the United States and other countries, licensed exclusively through X/Open Company, Ltd.

All other trademarks and registered trademarks are the property of their respective holders.

This document was prepared using VAX DOCUMENT Version 2.1.

Contents

Preface v

1 Overview of the CD–ROM User's Guide

1.1 About These CD–ROMs 1–1
1.1.1 Before Using the CD–ROMs 1–1
1.1.2 Handling the CD–ROMs 1–1
1.2 Product Licensing Agreements 1–1

2 OpenVMS VAX Software Product Library

2.1 Mounting and Controlling Access to a CD–ROM 2–1
2.2 Using the CDMENU Utility 2–1
2.3 Accessing a Software CD–ROM 2–2
2.3.1 OpenVMS VAX CD–ROM Directory Structure 2–2
2.3.2 Release Notes and Other Documentation 2–3
2.3.3 Printing the Documents 2–3
2.4 Installing Layered Products 2–4
2.4.1 Location of Product Save Sets and Installation Instructions 2–4
2.4.2 Installation Methods 2–4
2.4.2.1 Using VMSINSTAL 2–4
2.4.2.2 Using the POLYCENTER Software Installation Utility 2–5
2.5 ECOs and MUPs 2–5

3 OpenVMS Alpha Software Product Library

3.1 Mounting and Controlling Access to a CD–ROM 3–1
3.2 Using the CDMENU Utility 3–1
3.3 Accessing a Software CD–ROM 3–2
3.3.1 OpenVMS Alpha CD–ROM Directory Structure 3–2
3.3.2 Release Notes and Other Documentation 3–3
3.3.3 Printing the Documents 3–3
3.4 Installing Layered Products 3–4
3.4.1 Location of Product Save Sets and Installation Instructions 3–4
3.4.2 Installation Methods 3–4
3.4.2.1 Using VMSINSTAL 3–4
3.4.2.2 Using the POLYCENTER Software Installation Utility 3–5
3.5 ECOs and MUPs 3–5

4 Digital UNIX Software Product Library

4.1 Mounting and Controlling Access to a CD–ROM 4–1
4.2 Using the cdmenu Utility 4–2
4.3 Accessing a Software CD–ROM 4–4
4.3.1 Digital UNIX CD–ROM Directory Structure 4–4
4.3.2 Release Notes and Other Documentation 4–5
4.3.3 Printing the Documents 4–5
4.4 Installing Layered Products 4–5
4.4.1 Location of Product Subsets and Installation Instructions 4–5
4.4.2 Installation Methods 4–6
4.4.2.1 Using setld 4–6
4.5 ECOs and MUPs 4–6

5 ULTRIX Software Product Library

5.1 Mounting and Controlling Access to a CD–ROM 5–1
5.2 Using the cdmenu Utility 5–2
5.3 Accessing a Software CD–ROM 5–3
5.3.1 ULTRIX CD–ROM Directory Structure 5–3
5.3.2 Other Documentation 5–4
5.3.3 Printing the Documents 5–4
5.4 Installing Layered Products 5–5
5.4.1 Location of Product Subsets and Installation Instructions 5–5
5.4.2 Installation Methods 5–5
5.4.2.1 Using setld(8) 5–5
5.5 ECOs and MUPs 5–6

Index

Tables

2–1 OpenVMS VAX CD–ROM Directory Structure 2–3
2–2 OpenVMS VAX ECO and MUP CD–ROM Directory Structure 2–6
3–1 OpenVMS Alpha CD–ROM Directory Structure 3–3
3–2 OpenVMS Alpha ECO and MUP CD–ROM Directory Structure 3–6
4–1 Digital UNIX CD–ROM Directory Structure 4–4
4–2 Digital UNIX ECO and MUP CD–ROM Directory Structure 4–6
5–1 ULTRIX CD–ROM Directory Structure 5–4
5–2 ULTRIX ECO and MUP CD–ROM Directory Structure 5–6

Preface

This guide provides introductory information about the Software Product Library CD–ROMs for the following platforms:

- OpenVMS VAX (see Chapter 2)
- OpenVMS Alpha (see Chapter 3)
- Digital UNIX (see Chapter 4)
- ULTRIX VAX and ULTRIX RISC (see Chapter 5)

Contents of this Guide

This guide begins with an overview chapter providing information about the Software Product Library CD–ROMs that is common to all platforms.

The rest of the guide consists of chapters for each operating system, describing:

- Mounting and controlling access to a CD–ROM
- Using the CDMENU utility
- Accessing information on a software CD–ROM
- Installing layered products
- ECOs and MUPs

Ordering Information

Digital Equipment Corporation provides the following:

- Product binaries
  - Through quarterly consolidated distributions
  - Through individual kit purchases
- Product documentation
  - Through online documentation CD–ROMs included with the software product library or as a separate consolidated offering
  - In printed format
- ECO and MUP distribution
  - As a separate consolidated offering released eight times a year
  - On some platforms, as part of the software product library at the time of the platform's quarterly release

For individual product ordering information, consult your Digital account representative.

Call 1-800-DIGITAL to place orders in the United States. Contact your local Digital subsidiary outside the United States.

Order numbers for software kits, printed manuals, and software service are included in product cover letters or are listed on the SPDs.

Providing Feedback

Digital welcomes your comments on its products.

To make it easy for you to provide feedback, Digital has created the following Internet mail account:

`cdrom_docs@zko.dec.com`

Use this account to provide comments on this guide, and the Software Product Library Master Index for your platform.

Conventions

The following conventions are used in this guide:

For OpenVMS platforms:

Convention	Meaning
For OpenVMS platforms:	
UPPERCASE TEXT	Uppercase letters indicate the name of a command, a file, a parameter, a procedure, or utility.
$	The dollar sign ($) indicates the DIGITAL Command Language (DCL) prompt on OpenVMS systems. This prompt may be different on your system.
For platforms based on UNIX systems:	
%	The percent sign (%) indicates the user prompt on ULTRIX and Digital UNIX systems.
#	The pound sign (#) indicates the system manager prompt on ULTRIX and Digital UNIX systems.
Digital UNIX, Digital UNIX Systems	References to Digital UNIX and Digital UNIX Systems refer to the Digital UNIX (formerly DEC OSF/1) operating system running on Alpha processor hardware.
For all platforms:	
$ **MOUNT DKA400: VAXDOCNOV941** $ **mount -r /dev/rz4c /mnt**	Boldface monospace text represents user input in interactive examples.
device-name volume-label	Lowercase italics indicate a variable string. These variables include product identifiers, hardware devices, directory locations, file names, and mount points.

1

Overview of the CD–ROM User's Guide

The following information about Digital's Software Product Library CD–ROMs applies to all platforms.

1.1 About These CD–ROMs

Digital's Software Product Library CD–ROMs compose a software delivery vehicle that allows you to receive an update of consolidated software products on a regular basis.

This method of distribution does not change the content of any individual product. There is no impact on product compatibility; individual products are neither more nor less compatible with each other as a result of consolidated distribution.

1.1.1 Before Using the CD–ROMs

Make sure you are familiar with the system hardware, including your CD–ROM drive. Refer to the Optical Disc Drive Owner's Manual for your CD–ROM reader for instructions on using the CD–ROM drive.

1.1.2 Handling the CD–ROMs

The CD–ROMs accompanying this booklet are enclosed in an antistatic envelope. To be mounted on your system, a CD–ROM must be removed from this envelope and loaded into a caddy. In handling the CD–ROM, always grasp it by its edges only.

For information about inserting the CD–ROM in the disc drive, refer to the Optical Disc Drive Owner's Manual.

1.2 Product Licensing Agreements

The media and the software programs contained on these CD–ROMs belong to Digital. Use of the software products is authorized only if you have a valid software license from Digital. Therefore, you must purchase the appropriate software license for each product you want to use from this consolidated distribution.

A License Management Facility (LMF) Product Authorization Key (PAK) allows you to access a software product. A PAK must be registered and loaded before you can install the associated product from the Software Product Library CD–ROM. Each product has a unique LMF PAK name.

Refer to your license agreements for license terms and conditions.

See your operating system documentation for information on using the License Management Facility.

2

OpenVMS VAX Software Product Library

This chapter describes how to use the OpenVMS VAX Software Product Library CD–ROMs.

2.1 Mounting and Controlling Access to a CD–ROM

To access the files on an OpenVMS VAX Software Product Library CD–ROM, mount the CD–ROM using the following procedure:

1. Find the appropriate volume label on the face of the CD–ROM.
2. Load the CD–ROM into a protective caddy.
3. Insert the caddy into the drive.
4. Log in to the system manager's account (SYSTEM).
5. Mount the CD–ROM by entering the MOUNT command in the following format:

   MOUNT *device-name*: *volume-label*

   For example:

   ```
   $ MOUNT DKA400: VAXBINJAN941
   ```

2.2 Using the CDMENU Utility

The CDMENU utility provides a menu interface that helps you perform the following tasks easily:

- Display a master index of all products
- Display new and updated products
- Fetch or copy release notes
- Display and print installation guides and other documentation
- Install products

To invoke the CDMENU utility:

1. Mount the CD–ROM as described in Section 2.1.
2. Define the logical name CD_DIRECTORY in your LOGIN.COM file.
   - To access a single CD–ROM, enter a command in the following format:

     $ DEFINE CD_DIRECTORY *device-name*:[CDROM]

     For example:

     ```
     $ DEFINE CD_DIRECTORY DKA400:[CDROM]
     ```

- To access multiple CD–ROMs, define CD_DIRECTORY as a search list, entering a command in the following format:

  ```
  $ DEFINE CD_DIRECTORY device1:[CDROM],device2:[CDROM],device3:[CDROM]
  ```

  For example:

  ```
  $ DEFINE CD_DIRECTORY DKA200:[CDROM],DKA300:[CDROM],DKA400:[CDROM]
  ```

3. Define the logical name CD_EDIT to indicate the editor to use while displaying documentation on your screen.

   For example:

   ```
   $ DEFINE CD_EDIT LSE
   ```

   In this example, the Language Sensitive Editor (LSE) is invoked.

4. Enter the following command at the system prompt to invoke the CDMENU utility:

   ```
   $ RUN CD_DIRECTORY:CDMENU
   ```

   The CDMENU main menu is displayed.

5. Follow the directions on the screen to choose the option for the task you want to perform.

Note

CDMENU assumes the CD–ROMs identified in the CD_DIRECTORY logical name definition are from the same release because it utilizes the first instance of CD_CONTENTS.DAT located in the [CDROM] directory.

2.3 Accessing a Software CD–ROM

OpenVMS VAX Software Product Library CD–ROMs contain directories for each product. These directories contain save sets of the binary images included in the software product, and product installation documentation in PostScript and ASCII text formats. Each product directory begins with a name unique for that product.

2.3.1 OpenVMS VAX CD–ROM Directory Structure

Table 2–1 shows the structure of the OpenVMS VAX Software Product Library CD–ROMs.

The [README] directory, located on the first CD–ROM, contains the documents you should read first. In most cases, these documents are available in ASCII text and PostScript format.

Note

If present, the files SPECIAL_NOTES.TXT and SPECIAL_NOTES.PS in the [README] directory contain important information about specific products in this release.

For each product, the name of the root directory usually corresponds to the name of the product save set. The kit save sets are located in the `KIT` subdirectory. Documentation is located in the `DOCUMENTATION` subdirectory.

Table 2–1 OpenVMS VAX CD–ROM Directory Structure

Directory	File	Contents
[README]		Documentation you should read first.
	CDMASTER_INDEX.PS (.TXT)	Lists all products in this release.
	SW_COMPAT_MATRIX.PS (.TXT)	Indicates operating system versions that support each layered product.
	USER_GUIDE.PS (.TXT)	This user guide.
	SW_LICENSE_DOC.PS (.TXT)	Software License Description.
	SPECIAL_NOTES.PS (.TXT)	Contains last minute information on selected products.
[CDROM]		The CDMENU utility and related files.
[*product*]		Top level product directory, as shown in the *OpenVMS VAX Software Product Library Master Index.*
[*product*.KIT]		Product subdirectory containing save sets.
[*product*.DOCUMENTATION]		Product subdirectory containing documentation in .PS and .TXT formats.
	*product*_IGUIDE.PS (.TXT)	Installation guides.
	*product*_COVER.PS (.TXT)	Cover letters.
	*product*_SPD.PS (.TXT)	Software Product Descriptions.

2.3.2 Release Notes and Other Documentation

Release notes for layered products are included in the kits and may be retrieved using the appropriate command in the VMSINSTAL utility or the POLYCENTER Software Installation utility. You may also use the CDMENU utility to perform this task (see Section 2.2).

Other product documentation not listed in Table 2–1 is available in two ways:

- On OpenVMS VAX Online Documentation Library CD–ROMs in an electronically viewable format
- As individual product documentation sets in hardcopy format

Either may be ordered separately by contacting your Digital account representative.

2.3.3 Printing the Documents

You can print the documentation for the OpenVMS VAX Software Product Library either by using the CDMENU utility (see Section 2.2) or by entering a DCL command. You do not need a product license to print these documents.

See the *OpenVMS VAX Software Product Library Master Index* for pointers to product directory specifications.

To print a document in Table 2–1 for text output, send the file to an ASCII printer by entering a command in one of the following formats:

```
$ PRINT/QUEUE=queue_ANSI device:[README]file-name.TXT
$ PRINT/QUEUE=queue_ANSI device:[product.DOCUMENTATION]file-name.TXT
```

To print a document in Table 2–1 for PostScript output, send the file to a PostScript printer by entering a command in one of the following formats:

```
$ PRINT/QUEUE=queue_POST device:[README]file-name.PS
$ PRINT/QUEUE=queue_POST device:[PRODUCT.DOCUMENTATION]file-name.PS
```

In the preceeding examples, *device* represents the name of the drive on which you have placed your OpenVMS VAX Software Product Library CD–ROM.

2.4 Installing Layered Products

This section describes how to install layered products on an OpenVMS VAX system.

2.4.1 Location of Product Save Sets and Installation Instructions

The *OpenVMS VAX Software Product Library Master Index* gives the directory locations of the products on the software binaries CD–ROMs. This information is also available in the CDMASTER_INDEX.PS and CDMASTER_INDEX.TXT files in the [README] directory on the first CD–ROM.

Installation information for each product, in PostScript and ASCII formats, is located in [*product*.DOCUMENTATION] directories, where *product* is the product directory name as given in the *OpenVMS VAX Software Product Library Master Index*.

You do not need a product license to print the information in these directories.

Read the Ordering Information section in the product SPD for product ordering information.

2.4.2 Installation Methods

Install layered products using one of the following methods:

- Using the CDMENU utility (see Section 2.2).
- Invoking VMSINSTAL.
- Invoking POLYCENTER Software Installation utility.

2.4.2.1 Using VMSINSTAL

Individual layered product kits are located in their own directory hierarchies. For this reason, when you install a layered product, you must use a VMSINSTAL command line that is slightly different from the one given in the product's installation guide.

When you enter the VMSINSTAL command line, specify the disc drive and the directory by entering a command in the following format:

```
@SYS$UPDATE:VMSINSTAL product drive:[directory.KIT]
```

For example:

```
$ @SYS$UPDATE:VMSINSTAL FORT061 DKA400:[FORT061.KIT]
```

Additionally, certain system privileges must be enabled before you run VMSINSTAL. You must be logged in to a privileged account (such as the system manager's account, SYSTEM) that has the SETPRV privilege or at least the following privileges enabled:

- CMKRNL
- SYSPRV
- WORLD

To check whether your process has SETPRV or other privileges enabled, enter the following command:

```
$ SHOW PROCESS/PRIVILEGES
```

2.4.2.2 Using the POLYCENTER Software Installation Utility

Beginning with OpenVMS VAX Version 6.1, some products can be installed using the POLYCENTER Software Installation utility. Not all products are available with this installation technology.

Use a command in the following format to install one or more software products that support installations by means of POLYCENTER Software Installation utility:

```
PRODUCT INSTALL product/VERSION=number /SOURCE=drive:[directory.KIT]
```

For example:

```
$ PRODUCT INSTALL DQS/VERSION=1.3 /SOURCE=DKA400:[DQS013.KIT]
```

Additionally, certain system privileges must be enabled before you install products. You must be logged in to a privileged account (such as the system manager's account, SYSTEM) that has at least the following privileges enabled:

- CMKRNL
- SYSPRV

To check whether your process has these privileges enabled, enter the following command:

```
$ SHOW PROCESS/PRIVILEGES
```

To see whether a previous version of a product is installed, use the `PRODUCT SHOW PRODUCT` command. For example:

```
$ PRODUCT SHOW PRODUCT FORTRAN
```

Refer to the product's installation guide for more information on installing products using the POLYCENTER Software Installation utility.

To use other features of the POLYCENTER Software Intallation utility, see the *POLYCENTER Software Installation Utility User's Guide*.

2.5 ECOs and MUPs

This section describes the Consolidated Software Engineering Change Order distribution for OpenVMS VAX. This distribution provides ECOs and MUPs. Use these instructions if you have purchased the Consolidated Software Engineering Change Order distribution.

Note

To purchase the Consolidated Software Engineering Change Order distribution for OpenVMS VAX, contact your local service office.

ECOs and MUPs are provided on a separate set of CD–ROMs. Table 2–2 describes the arrangement of files on these CD–ROMs.

Table 2–2 OpenVMS VAX ECO and MUP CD–ROM Directory Structure

Directory	Contents
[ECO*name*.KIT]	ECO or MUP save sets.
[ECO*name*.DOCUMENTATION]	Documentation in ASCII and PostScript format. (Includes a cover letter for each ECO and MUP.)
[CDROM]	CDMENU utility and associated files.
[README]	Documentation you should read first. This directory is located only on the first ECO/MUP CD–ROM.
USER_GUIDE.PS (.TXT)	This user guide.
ECOMASTER_INDEX.PS (.TXT)	*OpenVMS VAX Consolidated Software Engineering Change Order Master Index.*

To access an ECO or MUP, do the following:

1. Mount the first CD–ROM as described in Section 2.1.
2. Print the file `ECOMASTER_INDEX.PS` or `ECOMASTER_INDEX.TXT` and use it to determine which CD–ROM contains the ECO or MUP you are interested in.

   These files are located in the `[README]` directory on the first ECO/MUP CD–ROM and provide a listing of products with ECOs and MUPs, a pointer to the CD–ROM on which each resides, and their directory names.
3. Invoke the ECO/MUP CDMENU utility as described in Section 2.2.

   This version of the CDMENU utility, located in the `[CDROM]` directory on the ECO/MUP CD–ROMs, is provided to assist in using the ECO/MUP CD–ROMS.

   An advantage of using the ECO/MUP version of CDMENU to install an ECO or MUP is that a product history is created, which you can reference at a future date.

   Note

   Do not use this ECO/MUP version of CDMENU with the Software Products Library CD–ROMs.

4. Use CDMENU to print or view the product's ECO/MUP cover letter.

   To determine the applicability of an ECO or MUP, read the information in the cover letter which discusses the problems addressed in the kit.
5. Install the ECO or MUP using one of the methods described in Section 2.4.2.

3
OpenVMS Alpha Software Product Library

This chapter describes how to use the OpenVMS Alpha Software Product Library CD–ROMs.

3.1 Mounting and Controlling Access to a CD–ROM

To access the files on an OpenVMS Alpha Software Product Library CD–ROM, mount the CD–ROM using the following procedure:

1. Find the appropriate volume label on the face of the CD–ROM.
2. Load the CD–ROM into a protective caddy.
3. Insert the caddy into the drive.
4. Log in to the system manager's account (SYSTEM).
5. Mount the CD–ROM by entering the MOUNT command in the following format:

   MOUNT *device-name*: *volume-label*

   For example:

   ```
   $ MOUNT DKA400: AXPBINNOV941
   ```

3.2 Using the CDMENU Utility

The CDMENU utility provides a menu interface that helps you perform the following tasks easily:

- Display a master index of all products
- Display new and updated products
- Fetch or copy release notes
- Display and print installation guides and other documentation
- Install products

To invoke the CDMENU utility:

1. Mount the CD–ROM as described in Section 3.1.
2. Define the logical name CD_DIRECTORY in your LOGIN.COM file.
   - To access a single CD–ROM, enter a command in the following format:

     $ DEFINE CD_DIRECTORY *device-name*:[CDROM]

     For example:

     ```
     $ DEFINE CD_DIRECTORY DKA400:[CDROM]
     ```

- To access multiple CD–ROMs, define CD_DIRECTORY as a search list, entering a command in the following format:

  ```
  $ DEFINE CD_DIRECTORY device1:[CDROM],device2:[CDROM],device3:[CDROM]
  ```

  For example:

  ```
  $ DEFINE CD_DIRECTORY DKA200:[CDROM],DKA300:[CDROM],DKA400:[CDROM]
  ```

3. Define the logical name CD_EDIT to indicate the editor to use while displaying documentation on your screen.

   For example:

   ```
   $ DEFINE CD_EDIT LSE
   ```

4. Enter the following command at the system prompt to invoke the CDMENU utility:

   ```
   $ RUN CD_DIRECTORY:CDMENU
   ```

   The CDMENU main menu is displayed.

5. Follow the directions on the screen to choose the option for the task you want to perform.

Note

CDMENU assumes the CD–ROMs identified in the CD_DIRECTORY logical name definition are from the same release because it utilizes the first instance of CD_CONTENTS.DAT located in the [CDROM] directory.

3.3 Accessing a Software CD–ROM

OpenVMS Alpha Software Product Library CD–ROMs contain directories for each product. These directories contain save sets of the binary images included in the software product, and product installation documentation in PostScript and ASCII text formats. Each product directory begins with a name unique for that product.

3.3.1 OpenVMS Alpha CD–ROM Directory Structure

Table 3–1 shows the structure of the OpenVMS Alpha Software Product Library CD–ROMs.

The [README] directory, located on the first CD–ROM, contains the documents you should read first. In most cases, these documents are available in ASCII text and PostScript format.

Note

If present, the files SPECIAL_NOTES.TXT and SPECIAL_NOTES.PS in the [README] directory contain important information about specific products in this release.

For each product, the name of the root directory usually corresponds to the name of the product save set. The product save sets are located in the KIT subdirectory. Documentation is located in the DOCUMENTATION subdirectory.

Table 3–1 OpenVMS Alpha CD–ROM Directory Structure

Directory	File	Contents
[README]		Documentation you should read first.
	CDMASTER_INDEX.PS (.TXT)	Lists all products in this release.
	SW_COMPAT_MATRIX.PS (.TXT)	Indicates operating system versions that support each layered product.
	USER_GUIDE.PS (.TXT)	This user guide.
	SW_LICENSE_DOC.PS (.TXT)	Software License Description.
	SPECIAL_NOTES.PS (.TXT)	Contains last minute information on selected products.
[CDROM]		The CDMENU utility and related files.
[*product*]		Top level product directory, as shown in the *OpenVMS Alpha Software Product Library Master Index.*
[*product*.KIT]		Product subdirectory containing save sets.
[*product*.DOCUMENTATION]		Product subdirectory containing documentation in .PS and .TXT formats.
	*product*_IGUIDE.PS (.TXT)	Installation guides.
	*product*_COVER.PS (.TXT)	Cover letters.
	*product*_SPD.PS (.TXT)	Software Product Descriptions.

3.3.2 Release Notes and Other Documentation

Release notes for layered products are included in the kits and may be retrieved by entering the appropriate command in the VMSINSTAL utility or the POLYCENTER Software Installation utility. You may also use the CDMENU utility to perform this task.

Other product documentation not listed in Table 3–1 is available in two ways:

- On OpenVMS Alpha Online Documentation Library CD–ROMs in an electronically viewable format
- As individual product documentation sets in hardcopy format

Either may be ordered separately by contacting your Digital account representative.

3.3.3 Printing the Documents

You can print the documentation for the OpenVMS Alpha Software Product Library either by using the CDMENU utility (see Section 3.2) or by entering an operating system command. You do not need a product license to print these documents.

See the *OpenVMS Alpha Software Product Library Master Index* for pointers to product directory specifications.

To print a document in Table 3–1 for text output, send the file to an ASCII printer by entering a command in one of the following formats:

```
$ PRINT/QUEUE=queue_ANSI device:[README]file-name.TXT
$ PRINT/QUEUE=queue_ANSI device:[product.DOCUMENTATION]file-name.TXT
```

To print a document in Table 3–1 for PostScript output, send the file to a PostScript printer by entering a command in one of the following formats: commands:

```
$ PRINT/QUEUE=queue_POST device:[README]file-name.PS
$ PRINT/QUEUE=queue_POST device:[product.DOCUMENTATION]file-name.PS
```

In the preceeding examples, *device* represents the name of the drive on which you have placed your OpenVMS Alpha Software Product Library CD–ROM.

3.4 Installing Layered Products

This section describes how to install layered products on an OpenVMS Alpha system.

3.4.1 Location of Product Save Sets and Installation Instructions

The *OpenVMS Alpha Software Product Library Master Index* gives the directory locations of the products on the software binaries CD–ROMs. This information is also available in the CDMASTER_INDEX.PS and CDMASTER_INDEX.TXT files in the [README] directory on the first CD–ROM.

Installation information for each product, in PostScript and ASCII text formats, is located in [*product*.DOCUMENTATION] directories, where *product* is the product directory name as given in the *OpenVMS Alpha Software Product Library Master Index*.

You do not need a product license to print the information in these directories.

Read the Ordering Information section in the product SPD for product ordering information.

3.4.2 Installation Methods

Install layered products using one of the following methods:

- Using the CDMENU utility (see Section 3.2).
- Using the VMSINSTAL utility.
- Using the POLYCENTER Software Installation utility.

3.4.2.1 Using VMSINSTAL

Individual layered product kits are located in their own directory hierarchies. For this reason, when you install a layered product, you must use a VMSINSTAL command line that is slightly different from the one given in the product's installation guide.

When you enter the VMSINSTAL command line, specify the disc drive and the directory by entering a command in the following format:

```
@SYS$UPDATE:VMSINSTAL product drive:[directory.KIT]
```

For example:

```
$ @SYS$UPDATE:VMSINSTAL DECFMS024 DKA400:[DECFMS024.KIT]
```

Additionally, certain system privileges must be enabled before you run VMSINSTAL. You must be logged in to a privileged account (such as the system manager's account, SYSTEM) that has the SETPRV privilege or at least the following privileges enabled:

- CMKRNL
- SYSPRV
- WORLD

To check whether your process has SETPRV or other privileges enabled, enter the following command:

```
$ SHOW PROCESS/PRIVILEGES
```

3.4.2.2 Using the POLYCENTER Software Installation Utility

Beginning with OpenVMS Alpha Version 6.1, some products can be installed using the POLYCENTER Software Installation utility. Not all products are available with this installation technology.

Use a command in the following format to install one or more software products that support installations by means of POLYCENTER Software Installation utility:

```
PRODUCT INSTALL product/VERSION=number /SOURCE=disc-drive:[directory.KIT]
```

For example:

```
$ PRODUCT INSTALL DQS/VERSION=1.3 /SOURCE=DKA400:[DQS013.KIT]
```

Additionally, certain system privileges must be enabled before you install products. You must be logged in to a privileged account (such as the system manager's account, SYSTEM) that has at least the following privileges enabled:

- CMKRNL
- SYSPRV

To check whether your process has these privileges enabled, enter the following command:

```
$ SHOW PROCESS/PRIVILEGES
```

To see whether a previous version of a product is installed, use the `PRODUCT SHOW PRODUCT` command. For example:

```
$ PRODUCT SHOW PRODUCT FORTRAN
```

Refer to the product's installation guide for more information on installing products using the POLYCENTER Software Installation utility.

To use other features of the POLYCENTER Software Intallation utility, see the *POLYCENTER Software Installation Utility User's Guide*.

3.5 ECOs and MUPs

This section describes the OpenVMS Alpha Consolidated Software Engineering Change Order distribution, which provides ECOs and MUPs. Use these instructions if you have purchased the Consolidated Software Engineering Change Order distribution.

Note

To purchase the Consolidated Software Engineering Change Order distribution for OpenVMS Alpha, contact your local service office.

ECOs and MUPs are provided on a separate set of CD–ROMs. Table 3–2 describes the arrangement of files on these CD–ROMs.

Table 3–2 OpenVMS Alpha ECO and MUP CD–ROM Directory Structure

Directory	Contents
[ECO*name*.KIT]	ECO or MUP save sets.
[ECO*name*.DOCUMENTATION]	Documentation in ASCII and PostScript format. (Includes a cover letter for each ECO and MUP.)
[CDROM]	CDMENU utility and associated files.
[README]	Documentation you should read first. This directory is located only on the first ECO/MUP CD–ROM.
USER_GUIDE.PS (.TXT)	This user guide.
ECOMASTER_INDEX.PS (.TXT)	*OpenVMS Alpha Consolidated Software Engineering Change Order Master Index.*

To access an ECO or MUP, do the following:

1. Mount the first CD–ROM as described in Section 3.1.
2. Print the file `ECOMASTER_INDEX.PS` or `ECOMASTER_INDEX.TXT` and use it to determine which CD–ROM contains the ECO or MUP you are interested in.

   These files are located in the `[README]` directory on the first ECO/MUP CD–ROM and provide a listing of products with ECOs and MUPs, a pointer to the CD–ROM on which each resides, and their directory names.
3. Invoke the ECO/MUP CDMENU utility as described in Section 3.2.

   This version of the CDMENU utility, located in the `[CDROM]` directory on the ECO/MUP CD–ROMs, is provided to assist in using the ECO/MUP CD–ROMS.

   An advantage of using the ECO/MUP version of CDMENU to install an ECO or MUP is that a product history is created, which you can reference at a future date.

   Note

   Do not use this version of CDMENU with the Software Products Library CD–ROMs.
4. Use CDMENU to print or view the product's ECO/MUP cover letter.

   To determine the applicability of an ECO or MUP, read the information in the cover letter which discusses the problems addressed in the kit.
5. Install the ECO or MUP using one of the methods described in Section 3.4.2.

4

Digital UNIX Software Product Library

This chapter describes how to use the Digital UNIX Software Product Library CD–ROMs.

4.1 Mounting and Controlling Access to a CD–ROM

To access the files on a Digital UNIX Software Product Library CD–ROM, mount the CD–ROM using the following procedure:

1. Load the CD–ROM into a protective caddy.
2. Insert the caddy into the drive.
3. Log in as root or become superuser:

   ```
   % su
   Password:
   ```

4. If you do not know the device name for the CD–ROM drive, use the `file` command to find it.

   ```
   # file /dev/rrz*c
   ```

   The `file` command returns output similar to that shown in the following example. Note that the entry for the disc drive includes the words `RRD42 disk`.

   ```
   /dev/rrz1c:     character special (8/1740) SCSI #1 RRD42 disk #12 (SCSI ID #1)
   /dev/rrz2c:     character special (8/2050) SCSI #0 RRD42 disk #16 (SCSI ID #2)
   /dev/rrz3c:     character special (8/3074) SCSI #0 RZ25 disk #24 (SCSI ID #3)
   /dev/rrz4c:     character special (8/4098) SCSI #0 RRD42 disk #32 (SCSI ID #4)
   /dev/rrz8c:     character special (8/16386) SCSI #1 RZ56 disk #64 (SCSI ID #0)
   ```

5. Create a directory that will be the mount point for the CD–ROM, using a command in the following format:

   ```
   mkdir /mount-point
   ```

   For example:

   ```
   # mkdir /mnt
   ```

   If you are going to mount multiple CD–ROMs, create multiple mount points using the `mkdir` command.

6. Mount the CD–ROM using the `-dr` or `-r` option to indicate that the CD–ROM is read-only. Use the `-dr` command if you are using a version of the operating system lower than Version 1.3. Use the `-r` option if your operating system is Version 1.3 or higher.

- For a single CD–ROM, use a command in the following format:

  ```
  # mount -r /dev/rzunit_numberc /mount-point
  ```

  where:

  unit-number is the unit number of your disc drive.

  mount-point is the mount point you have just created.

  For example:

  ```
  # mount -r /dev/rz2c /mnt
  ```

- For multiple CD–ROMs, use commands in the following format:

  ```
  # mount -r /dev/rz1c  /mnt1
  # mount -r /dev/rz2c  /mnt2
  ```

  In these examples, `/mnt` is the mount point for a single CD–ROM, whereas `/mnt1` and `/mnt2` are mount points for multiple CD–ROMs.

7. To dismount a CD–ROM, use a command in one of the following formats:

   ```
   # umount /mnt
   ```

   or

   ```
   # /sbin/umount /dev/rz4c
   ```

8. To ensure that a CD–ROM is remounted in the event that your system crashes or is rebooted, follow these steps:

   a. Using the text editor of your choice, open the file `/sbin/bcheckrc` and search for the following section:

      ```
      #
      # mount local (non-nfs) filesystems
      #
      echo 'Mounting local filesystems'
      /sbin/mount -a -v -t nonfs
      ```

   b. To ensure that your CD–ROM will be mounted at system startup, add the following lines after the `mount local` section, replacing *unit-number* with the actual device number of your disc drive, and *mount-point* with the directory on which you mounted the CD–ROM:

      ```
      #
      # mount CD
      #
      echo 'Mounting CDROM'
      /sbin/mount -r /dev/rzunit-numberc /mount-point
      ```

      The system will mount the CD–ROM on the mount point you specify on every reboot.

4.2 Using the cdmenu Utility

The cdmenu utility provides a menu interface that helps you perform the following tasks easily:

- Display a master index of all products
- Display new and updated products
- Display and print installation guides and other documentation

- Install products

To invoke the cdmenu utility:

1. Log in as superuser.
2. Mount the CD–ROM as described in Section 4.1.
3. Using the c shell (csh), define the environment variable CD_DIRECTORY in your .login or .cshrc file by entering a command in one of the following formats:
   - For a single binary CD–ROM:

     setenv CD_DIRECTORY */mount-point*:/*mount-point*/cdrom

     where:

     mount-point is the directory where the CD–ROM is mounted.

     For example:

     # **setenv CD_DIRECTORY /mnt:/mnt/cdrom**
   - For multiple CD–ROMs:

     setenv CD_DIRECTORY */mount-point1*:/*mount-point2*:/*mount-point1*/cdrom

     For example:

     # **setenv CD_DIRECTORY /mnt1:/mnt2:/mnt1/cdrom**
4. Set the environment variable CD_EDIT to indicate the editor to use while displaying documentation on your screen.

   For example:

   # **setenv CD_EDIT vi**
5. Enter one of the following commands at the system prompt to invoke the cdmenu utility. (The examples assume a /mnt mount point.)
   - For a single CD–ROM:

     # **/mnt/cdrom/cdmenu**
   - For multiple CD–ROMs:

     # **/mnt1/cdrom/cdmenu**

     The CDMENU main menu is displayed.
6. Follow the directions on the screen to choose the option for the task you want to perform.

Note

The cdmenu utility assumes the CD–ROMs identified in the CD_DIRECTORY environment variable are from the same release because it utilizes the first instance of cd_contents.dat located in the /cdrom directory.

4.3 Accessing a Software CD–ROM

Digital UNIX Software Product Library CD–ROMs contain directories for each product. These directories contain subsets of the binary images included in the software product, and product installation documentation in PostScript and ASCII text formats. Each product directory begins with a name unique for that product.

4.3.1 Digital UNIX CD–ROM Directory Structure

Table 4–1 shows the structure of the Digital UNIX Software Product Library CD–ROMs.

The `/readme` directory, located on the first CD–ROM, contains the documents you should read first. In most cases, these documents are available in ASCII and PostScript format.

Note

If present, the files `special_notes.txt` and `special_notes.ps` in the `/readme` directory contain important information about specific products in this release.

For each product, the name of the root directory usually corresponds to the name of the product subset. The product subsets are located in the `/kit` subdirectory. Documentation is located in the `/documentation` subdirectory.

Table 4–1 Digital UNIX CD–ROM Directory Structure

Directory	File	Contents
/readme		Documentation you should read first.
	cdmaster_index.ps (.txt)	Lists all products in this release.
	user_guide.ps (.txt)	This user guide.
	sw_license_doc.ps (.txt)	Software License Description.
	special_notes.ps (.txt)	Contains last-minute information on selected products.
/cdrom		The cdmenu utility and related files.
/product		Top-level product directory, as shown in the *Digital UNIX Software Product Library Master Index*.
/product/kit		Product subdirectory containing subsets.
/product/documentation		Product subdirectory containing documentation in .ps and .txt formats.
	*product*_iguide.ps (.txt)	Installation guides.
	*product*_cover.ps (.txt)	Cover letters.
	*product*_relnotes.ps (.txt)	Release notes.
	*product*_spd.ps (.txt)	Software Product Descriptions.

4.3.2 Release Notes and Other Documentation

Release notes for layered products are included in the kits and may be retrieved by entering the appropriate command in the `setld` procedure. You may also use the cdmenu utility to perform this task.

Other product documentation not listed in Table 4–1 is available in two ways:

- On the Digital UNIX Online Documentation Library CD–ROMs in an electronically viewable format
- As individual product documentation sets in hardcopy format

Either may be ordered separately by contacting your Digital account representative.

4.3.3 Printing the Documents

You can print the documentation for the Digital UNIX Software Product Library either by using the cdmenu utility (see Section 4.2) or by entering an operating system command. You do not need a product license to print these documents.

See the *Digital UNIX Software Product Library Master Index* for pointers to product directory specifications.

To print a document in Table 4–1 for text output, send the file to an ASCII printer by entering a command in one of the following formats. (The examples assume a `/mnt` mount point.)

```
% lpr  -Pqueue-name /mnt/product/documentation/file-name.txt
% lpr  -Pqueue-name /mnt/readme/file-name.txt
```

To print a document in Table 4–1 for PostScript output, send the file to a PostScript printer by entering a command in one of the following formats:

```
% lpr  -Pqueue-name /mnt/product/documentation/file-name.ps
% lpr  -Pqueue-name /mnt/readme/file-name.ps
```

Note that for some products, there is no PostScript or ASCII documentation. Instead, an electronically viewable format of the documentation is provided on the Digital UNIX Online Documentation Library CD–ROM.

4.4 Installing Layered Products

This section describes how to install layered products on a system running the Digital UNIX operating system.

4.4.1 Location of Product Subsets and Installation Instructions

The *Digital UNIX Software Product Library Master Index* gives the directory locations of the products on the software binaries CD–ROMs. This information is also available in the `cdmaster_index.ps` and `cdmaster_index.txt` files in the `/readme` directory on the first CD–ROM.

Installation information for each product, in PostScript and ASCII text formats, is located in *product*`/documentation` directories, where *product* is the product directory name as given in the *Digital UNIX Software Product Library Master Index*.

You do not need a product license to print the information in these directories.

Read the Ordering Information section in the product SPD for product ordering information.

4.4.2 Installation Methods

Install layered products using one of the following methods:

- Using the cdmenu utility (see Section 4.2).
- Using the `setld` command.

4.4.2.1 Using setld

Individual layered product kits are located in their own directory hierarchies. When you install a layered product, you must use the complete path name on the `setld` command line.

To install products from the Digital UNIX Software Product Library:

1. Log in as superuser.
2. Enter a `setld` command that specifies the load function `-l` (ell). Use the following format:

   ```
   % /sbin/setld -l /mount-point/product/kit
   ```

   For example:

   ```
   % /sbin/setld -l /mnt/pas120/kit
   ```

   This command installs subsets requested from the `/pas120/kit` subdirectory on the device mounted to the directory `/mnt`.

4.5 ECOs and MUPs

This section describes the Digital UNIX Consolidated Software Engineering Change Order distribution, which provides ECOs and MUPs. Use these instructions if you have purchased the Consolidated Software Engineering Change Order distribution.

Note

To purchase the Consolidated Software Engineering Change Order distribution for Digital UNIX, contact your local service office.

ECOs and MUPs are provided on a separate set of CD–ROMs. Table 4–2 describes the arrangement of files on these CD–ROMs.

Table 4–2 Digital UNIX ECO and MUP CD–ROM Directory Structure

Directory	Contents
/mount-point/ECO*name*/kit	ECO or MUP subsets.
/mount-point/ECO*name*/documentation	Documentation in ASCII and PostScript format. (Includes a cover letter for each ECO /MUP.)
/cdrom	cdmenu utility and associated files.
/readme	Documentation you should read first. This directory is located only on the first ECO/MUP CD–ROM.

(continued on next page)

Table 4–2 (Cont.) Digital UNIX ECO and MUP CD–ROM Directory Structure

Directory	Contents
ecomaster_index.ps (.txt)	*Digital UNIX Consolidated Software Engineering Change Order Master Index.*
user_guide.ps (.txt)	This user guide.

To access an ECO or MUP, do the following:

1. Mount the first CD–ROM as described in Section 4.1.
2. Print the file `ecomaster_index.ps` or `ecomaster_index.txt` and use it to determine which CD–ROM contains the ECO or MUP you are interested in.

   These files are located in the `/readme` directory on the first ECO/MUP CD–ROM and provide a listing of products with ECOs and MUPs, a pointer to the CD–ROM on which each resides, and their directory names.
3. Invoke the ECO/MUP cdmenu utility as described in Section 4.2.

   This version of the cdmenu utility, located in the `/cdrom` directory on the ECO/MUP CD–ROMs, is provided to assist in using the ECO/MUP CD–ROMS.

   When you use the ECO/MUP version of cdmenu to install an ECO or MUP, a product history is created, which you can reference at a future date.

   Note

   Do not use this version of cdmenu with the Software Products Library CD–ROMs.
4. Use cdmenu to print or view the product's ECO/MUP cover letter.

   To determine the applicability of an ECO or MUP, read the information in the cover letter which discusses the problems addressed in the kit.
5. Install the ECO or MUP using one of the methods described in Section 4.4.2.

5
ULTRIX Software Product Library

This chapter describes how to use the ULTRIX Software Product Library CD–ROMs.

5.1 Mounting and Controlling Access to a CD–ROM

To access the files on an ULTRIX Software Product Library CD–ROM, mount the CD–ROM using the following procedure:

1. Load the CD–ROM into a protective caddy.
2. Insert the caddy into the drive.
3. Log in as root or become superuser:

   ```
   % su
   Password:
   ```

4. If you do not know the device name for the disc drive, use the following command to find it:

   ```
   #file /dev/rrz*c
   ```

   The file command returns output similar to that shown in the following example. Note that the entry for the disc drive includes the words RRD42 disk.

   ```
   /dev/rrz1c: character special (8/1740) SCSI #1 RRD42 disk #12 (SCSI ID #1)
   /dev/rrz2c: character special (8/2050) SCSI #0 RRD42 disk #16 (SCSI ID #2)
   /dev/rrz3c: character special (8/3074) SCSI #0 RZ25 disk #24 (SCSI ID #3)
   /dev/rrz4c: character special (8/4098) SCSI #0 RRD42 disk #32 (SCSI ID #4)
   /dev/rrz8c: character special (8/16386) SCSI #1 RZ56 disk #64 (SCSI ID #0)
   ```

5. Create a directory that will be the mount point for the CD–ROM, using a command in the following format:

   ```
   mkdir /mount-point
   ```

   For example:

   ```
   # mkdir /mnt
   ```

   If you are going to mount multiple CD–ROMs, create multiple mount points using the mkdir command.

6. Mount the CD–ROM using the -r option to indicate that the CD–ROM is read-only, as follows:

   - For a single binary CD–ROM, use a command in the following format:

     ```
     mount -r /dev/rzunit-numberc /mount-point
     ```

     where:

     unit-number is the unit number of your disc drive.

mount-point is the mount point you have just created.

For example:

```
# mount -r /dev/rz4c /mnt
```

- For multiple CD–ROMs, use commands in the following format:

```
# /etc/mount -r /dev/rz1c  /mnt1
# /etc/mount -r /dev/rz2c  /mnt2
```

In these examples, /mnt1 and /mnt2 are mount points for multiple CD–ROMs.

7. To dismount a CD–ROM, use a command in one of the following formats:

```
# umount /mnt
```

or

```
# /etc/umount /dev/rz4c
```

8. To ensure that the CD–ROM is remounted if your system crashes or is rebooted, open the /etc/fstab file. Using the text editor of your choice, add a line to this file containing the following information. See the file /usr/include/fstab.h for a description of each field.

spec:file:type:freq:passno:name:opts

For example:

```
/dev/rz4c:/mnt:ro:0:0:ufs::
```

The system will now mount the CD–ROM on /mnt on every reboot.

5.2 Using the cdmenu Utility

The cdmenu utility provides a menu interface that helps you perform the following tasks easily:

- Display a master index of all products
- Display new and updated products
- Display and print installation guides and other documentation
- Install products

To invoke the cdmenu utility:

1. Log in as superuser.
2. Mount the CD–ROM as described in Section 5.1.
3. Define the environment variable CD_DIRECTORY in your .login or .cshrc file by entering a command in one of the following formats:

- For a single binary CD–ROM:

```
setenv CD_DIRECTORY /mount-point:/mount-point/cdrom
```

where:

mount-point is the directory where the CD–ROM is mounted.

For example:

```
# setenv CD_DIRECTORY /mnt:/mnt/cdrom
```

- For multiple CD–ROMs:

  setenv CD_DIRECTORY */mount-point1*:*/mount-point2*:*/mount-point1*/cdrom

  For example:

  ```
  # setenv CD_DIRECTORY /mnt1:/mnt2:/mnt1/cdrom
  ```

4. Set the environment variable CD_EDIT to indicate the editor to use while displaying documentation on your screen.

   For example:

   ```
   # setenv CD_EDIT vi
   ```

5. Enter one of the following commands at the system prompt to invoke the cdmenu utility. (The examples assume a /mnt mount point.)

   - For a single binary CD–ROM:

     ```
     % /mnt/cdrom/cdmenu
     ```

   - For multiple CD–ROMs:

     ```
     % /mnt1/cdrom/cdmenu
     ```

   The cdmenu main menu is displayed.

6. Follow the directions on the screen to choose the option for the task you want to perform.

Note

The cdmenu utility assumes the CD–ROMs identified in the CD_DIRECTORY environment variable are from the same release because it utilizes the first instance of cd_contents.dat located in the /cdrom directory.

5.3 Accessing a Software CD–ROM

ULTRIX Software Product Library CD–ROMs contain directories for each product. These directories contain subsets of the binary images included in the software product, and product installation documentation in PostScript and ASCII text formats. Each product directory begins with a name unique for that product.

5.3.1 ULTRIX CD–ROM Directory Structure

Table 5–1 shows the structure of the ULTRIX Software Product Library CD–ROMs.

The /readme directory, located on the first CD–ROM, contains the documents you should read first. In most cases, these documents are available in ASCII text and PostScript format.

Note

If present, the files special_notes.txt and special_notes.ps in the /readme directory contain important information about specific products in this release. Note that the special_notes files for ULTRIX VAX and ULTRIX RISC are different.

For each product, the name of the root directory usually corresponds to the name of the product. The products are located in the `/kit` subdirectory. Documentation is located in the `/documentation` subdirectory.

Table 5–1 ULTRIX CD–ROM Directory Structure

Directory	File	Contents
/readme		Documentation you should read first.
	cdmaster_index.ps (.txt)	Lists all products in this release.
	user_guide.ps (.txt)	This user guide.
	sw_license_doc.ps (.txt)	Software License Description.
	special_notes.ps (.txt)	Contains last-minute information on selected products.
/cdrom		The cdmenu utility and related files.
/product		Top-level product directory, as shown in the *ULTRIX Software Product Library Master Index*.
/product/kit		Product subdirectory containing subsets.
/product/documentation		Product subdirectory containing documentation in .ps and .txt formats.
	*product*_iguide.ps (.txt)	Installation guides.
	*product*_cover.ps (.txt)	Cover letters.
	*product*_relnotes.ps (.txt)	Release notes.
	*product*_spd.ps (.txt)	Software Product Descriptions.

5.3.2 Other Documentation

Other product documentation not listed in Table 5–1 is available in two ways:

- On the ULTRIX Online Documentation Library CD–ROMs in an electronically viewable format
- As individual product documentation sets in hardcopy format

Either may be ordered separately by contacting your Digital account representative.

5.3.3 Printing the Documents

You can print the documentation for the ULTRIX Software Product Library either by using the cdmenu utility (see Section 5.2) or by entering an operating system command. You do not need a product license to print these documents.

See the *ULTRIX Software Product Library Master Index* for pointers to product directory specifications.

To print a document in Table 5–1 for text output, send the file to an ASCII printer by entering a command in one of the following formats. (The examples assume a `/mnt` mount point.)

```
% lpr -Pqueue-name /mnt/readme/cdmaster_index.txt
```

```
% lpr -Pqueue-name /mnt/documentation/product_iguide.txt
```

To print a document in Table 5–1 for PostScript output, send the file to a PostScript printer by entering a command in one of the following formats:

```
% lpr -Pqueue-name /mnt/readme/cdmaster_index.ps
% lpr -Pqueue-name /mnt/documentation/product_iguide.ps
```

5.4 Installing Layered Products

This section describes how to install layered products on a system running the ULTRIX operating system or ULTRIX Worksystem software.

5.4.1 Location of Product Subsets and Installation Instructions

The *ULTRIX Software Product Library Master Index* gives the directory locations of the products on the software binaries CD–ROMs. This information is also available in the `cdmaster_index.ps` and `cdmaster_index.txt` files in the `/readme` directory on the first CD–ROM.

Installation information for each product, in PostScript and ASCII text formats, is located in *product*`/documentation` directories, where *product* is the product directory name as given in the *ULTRIX Software Product Library Master Index*.

You do not need a product license to print the information in these directories.

Read the Ordering Information section in the product SPD for product ordering information.

5.4.2 Installation Methods

Install layered products using one of the following methods:

- Using the cdmenu utility (see Section 5.2).
- Using the `setld(8)` command.

5.4.2.1 Using setld(8)

Individual layered product kits are located in their own directory hierarchies. When you install a layered product, you must use the complete path name on the `setld`(8) command line.

To install products from the ULTRIX Software Product Library:

1. Log in as superuser.
2. Enter a `setld` command that specifies the load function `-l` (ell). Use the following format:

   ```
   # setld -l /mount-point/product/kit
   ```

   For example:

   ```
   # setld -l /mnt/pas120/kit
   ```

   This command installs subsets requested from the `/pas120/kit` subdirectory on the device mounted to the `/mnt` directory.

5.5 ECOs and MUPs

This section describes the Consolidated Software Engineering Change Order distribution for ULTRIX. This distribution provides ECOs and MUPs. Use these instructions if you have purchased the Consolidated Software Engineering Change Order distribution.

Note

To purchase the Consolidated Software Engineering Change Order distribution for ULTRIX, contact your local service office.

ECOs and MUPs are provided on a separate set of CD–ROMs. Table 5–2 describes the arrangement of files on these CD–ROMs.

Table 5–2 ULTRIX ECO and MUP CD–ROM Directory Structure

Directory	Contents
/mount-point/ECO*name*/kit	ECO or MUP subsets.
/mount-point/ECO*name*/documentation	Documentation in ASCII and PostScript format. (Includes a cover letter for each ECO /MUP.)
/cdrom	cdmenu utility and associated files.
cdmenu_vax	cdmenu utility for ULTRIX VAX.
cdmenu_risc	cdmenu utility for ULTRIX RISC.
/readme	Documentation you should read first. This directory is located only on the first ECO/MUP CD–ROM.
ecomaster_index.ps (.txt)	*ULTRIX Consolidated Software Engineering Change Order Master Index.*
user_guide.ps (.txt)	This user guide.

To access an ECO or MUP, do the following:

1. Mount the first CD–ROM as described in Section 5.1.
2. Print the file `ecomaster_index.ps` or `ecomaster_index.txt` and use it to determine which CD–ROM contains the ECO or MUP you are interested in.

   These files are located in the `/readme` directory on the first ECO/MUP CD–ROM and provide a listing of products with ECOs and MUPs, a pointer to the CD–ROM on which each resides, and their directory names.
3. Invoke the ECO/MUP cdmenu utility as described in Section 5.2, with the following modifications:
   - When you define the environment variable CD_DIRECTORY, append the appropriate ECO/MUP cdmenu saveset name to the command:

     `cdmenu_vax` *or*
     `cdmenu_risc`

     For example:

     ```
     # setenv CD_DIRECTORY /mnt:/mnt/cdrom/cdmenu_vax
     ```

- When you invoke the cdmenu utility, substitute the appropriate ECO/MUP cdmenu subset name for `cdmenu`.

  For example:

  ```
  % /mnt/cdrom/cdmenu_vax
  ```

These versions of the cdmenu utility, located in the `/cdrom` directory on the ECO/MUP CD–ROMs, are provided to assist in using the ECO/MUP CD–ROMS.

When you use the ECO/MUP version of cdmenu to install an ECO or MUP, a product history is created, which you can reference at a future date.

Note

Do not use the ECO/MUP versions of cdmenu with the Software Products Library CD–ROMs.

4. Use cdmenu to print or view the product's ECO/MUP cover letter.

   To determine the applicability of an ECO or MUP, read the information in the cover letter which discusses the problems addressed in the kit.

5. Install the ECO or MUP by following the installation instructions in the ECO/MUP documentation.

Note

Some of the ECOs and MUPs on these discs are not `tar` files and cannot be installed using `setld`.

Index

C

CD–ROM hardware
  documentation on, 1–1
CD–ROMs
  accessing
    on Digital UNIX, 4–4
    on OpenVMS Alpha, 3–2
    on OpenVMS VAX, 2–2
    on ULTRIX, 5–3
  controlling access
    on Digital UNIX, 4–1
    on OpenVMS Alpha, 3–1
    on OpenVMS VAX, 2–1
    on ULTRIX, 5–1
  directory structure
    on Digital UNIX, 4–4
    on OpenVMS Alpha, 3–2
    on OpenVMS VAX, 2–2
    on ULTRIX, 5–3
  handling, 1–1
  mounting
    on Digital UNIX, 4–1
    on OpenVMS Alpha, 3–1
    on OpenVMS VAX, 2–1
    on ULTRIX, 5–1
cdmenu utility
  invoking
    on Digital UNIX, 4–3
    on ULTRIX, 5–3
CDMENU utility
  invoking
    on OpenVMS Alpha, 3–2
    on OpenVMS VAX, 2–2
Compact discs
  See CD–ROMs

D

Discs
  See CD–ROMs
Documentation
  ordering, v

E

ECOs
  for Digital UNIX, 4–6
  for OpenVMS Alpha, 3–5
  for OpenVMS VAX, 2–5
  for ULTRIX, 5–6
  ordering, v
Engineering Change Orders
  See ECOs

I

Installation
  instructions
    on Digital UNIX, 4–5
    on OpenVMS Alpha, 3–4
    on OpenVMS VAX, 2–4
    on ULTRIX, 5–5
  layered products
    on Digital UNIX, 4–5
    on OpenVMS Alpha, 3–4
    on OpenVMS VAX, 2–4
    on ULTRIX, 5–5
Internet account
  for providing feedback, vi

L

License Management Facility (LMF), 1–1
LMF
  See License Management Facility

M

Mandatory Updates
  See MUPs
Mounting CD–ROMs
  on Digital UNIX, 4–1
  on OpenVMS Alpha, 3–1
  on OpenVMS VAX, 2–1
  on ULTRIX, 5–1
MUPs
  for Digital UNIX, 4–6
  for OpenVMS Alpha, 3–5
  for OpenVMS VAX, 2–5

MUPs (cont'd)
for ULTRIX, 5–6
ordering, v

O

Ordering
documentation, v
ECOs and MUPs, v
products, v

P

PAKS
See Product Authorization Keys
POLYCENTER Software Installation utility
on OpenVMS Alpha, 3–5
on OpenVMS VAX, 2–5
Printing
Digital UNIX documentation, 4–5
OpenVMS Alpha documentation, 3–3
OpenVMS VAX documentation, 2–3
ULTRIX documentation, 5–4
Product Authorization Keys (PAKS), 1–1

S

Save set locations
on OpenVMS Alpha, 3–4
on OpenVMS VAX, 2–4
setld utility
on Digital UNIX, 4–6
on ULTRIX, 5–5
Subset locations
on Digital UNIX, 4–5
on ULTRIX, 5–5

V

VMSINSTAL utility
on OpenVMS Alpha, 3–4
on OpenVMS VAX, 2–4