HP DECprint Supervisor (DCPS) for OpenVMS

Software Installation Guide

Order Number: AA-PSVDL-TE

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This guide describes how to install the DECprint Supervisor software.

Revision/Update Information:	This manual supersedes the DCPS Software Installation Guide V2.4.
Software Version:	HP DECprint Supervisor (DCPS) for OpenVMS, Version 2.5
Operating System:	OpenVMS Alpha Version 6.2, 7.3-2, or 8.2 OpenVMS I64 Version 8.2 or 8.2-1 OpenVMS VAX Version 5.5-2, 6.2, or 7.3

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The DECprint Supervisor documentation set is available on CD-ROM.

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Preface

Intended Audience

This manual is for system managers responsible for installing the DECprint Supervisor (DCPS) for OpenVMS printing software. To install the printing software, it is necessary to have some experience with:

- OpenVMS DCL command language and system management procedures
- Procedures and commands in the DCPS System Manager's Guide
- PCSI utility for installing OpenVMS software
- Network addressing and protocols at your site

Document Structure

This manual contains the following chapters and appendices:

- Chapter 1 describes what must be done before installing the software.
- Chapter 2 describes how to install the software with PCSI.
- Appendix A shows a sample installation.
- Appendix B describes how to install the software with VMSINSTAL. Appendix C lists the files installed by DCPS on your system.

Related Documents

The primary source of information about DCPS is the following set of software manuals:

Table 1 DECprint Supervisor Documentation

Software Installation Guide	Describes how to install DCPS.
System Manager's Guide	Describes how system managers, data center operators and application programmers can create and manage DCPS print queues and solve printing problems.
User's Guide	Describes how to use DCPS to print to PostScript® printers.
<i>Software Product Description</i> (<i>SPD 44.15.xx</i>)	Contains the full list of printers supported by DCPS and additional information about the features and requirements of DCPS V2.5.

For additional information about HP OpenVMS products and services, visit the following World Wide Web address:

http://www.hp.com/go/openvms/

Reader's Comments

HP welcomes your comments on this manual. Please send comments to either of the following addresses:

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How to Order Additional Documentation

For information about how to order additional documentation, visit the following World Wide Web address:

http://www.hp.com/go/openvms/doc/order/

Part numbers for DCPS-related documentation are listed in the Ordering Additional Documentation appendix of the Software Installation Guide, System Manager's Guide and User's Guide.

Conventions

The following conventions are used in this manual:

Ctrl/x	A sequence such as $Ctrl/x$ indicates that you must hold down the key labeled Ctrl while you press another key or a pointing device button.
Return	In examples, a key name enclosed in a box indicates that you press a key on the keyboard. (In text, a key name is not enclosed in a box.)
	In the HTML version of this document, this convention appears as brackets, rather than a box.
	A horizontal ellipsis in examples indicates one of the following possibilities:
	 Additional optional arguments in a statement have been omitted.
	• The preceding item or items can be repeated one or more times.
	• Additional parameters, values, or other information can be entered.
()	In command format descriptions, parentheses indicate that you must enclose choices in parentheses if you specify more than one.
[]	In command format descriptions, brackets indicate optional choices. You can choose one or more items or no items. Do not type the brackets on the command line. However, you must include the brackets in the syntax for OpenVMS directory specifications and for a substring specification in an assignment statement.
	In command format descriptions, vertical bars separate choices within brackets or braces. Within brackets, the choices are optional; within braces, at least one choice is required. Do not type the vertical bars on the command line.
{}	In command format descriptions, braces indicate required choices; you must choose at least one of the items listed. Do not type the braces on the command line.
bold text	This typeface represents the introduction of a new term. It also represents the name of an argument, an attribute or a reason.

italic text	Italic text indicates important information, complete titles of manuals or variables. Variables include information that varies in system output (Internal error <i>number</i>), in command lines (/PRODUCER= <i>name</i>) and in command parameters in text (where <i>dd</i> represents the predefined code for the device type).
UPPERCASE TEXT	Uppercase text indicates a command, the name of a routine, the name of a file, or the abbreviation for a system privilege.
Monospace text	Monospace type indicates code examples and interactive screen displays.
-	A hyphen at the end of a command format description, command line or code line indicates that the command or statement continues on the following line.
numbers	All numbers in text are assumed to be decimal unless otherwise noted. Nondecimal radixes—binary, octal or hexadecimal—are explicitly indicated.

1

Before Installing the Software

1.1 Operating System Version

The following are the supported versions of the OpenVMS operating system:

- OpenVMS Alpha V6.2*, V7.3-2 and V8.2
- OpenVMS I64 V8.2 and V8.2-1
- OpenVMS VAX V5.5-2*, V6.2* and V7.3

For a current list of supported OpenVMS versions, visit the following address:

http://h71000.www7.hp.com/openvms/openvms supportchart.html

Although the DCPS V2.5 PCSI kit will install and run on OpenVMS V6.2 and later, and the DCPS V2.5 VMSINSTAL kit will install and run on OpenVMS VAX V5.5-2 and later, customers running OpenVMS versions that are not supported do so at their own risk.

If you are running an older version of OpenVMS under a Prior Version support contract, such as OpenVMS VAX V5.5-2, contact HP for a DCPS VMSINSTAL kit. (See Section 1.3.1 for more information about PCSI software requirements.)

1.2 Disk Space

Depending on whether DCPS is installed on an Alpha, I64 or VAX processor, disk space requirements may vary. Table 1–1 lists the disk space requirements.

^{*} With Prior Version Support contract

Table 1–1 Disk Space Requirements

Disk space required for	Alpha system	l64 system	VAX system
Installation	7,700 blocks	11,000 blocks	7,200 blocks
Permanent use	7,200 blocks	10,500 blocks	6,700 blocks

These disk space requirements are approximate, and depend on your system environment, disk cluster size, configuration and software options.

1.3 Related Software

DECprint Supervisor works with other software to create a fully functional printing system. Before installing DECprint Supervisor, make sure the other application and printing software is compatible.

The following sections detail the software you need. Refer to the DECprint Supervisor Software Product Description (SPD) for specific version requirements.

1.3.1 POLYCENTER Software Installation Utility (PCSI)

DCPS is now installed with the POLYCENTER Software Installation Utility (PCSI) instead of VMSINSTAL. This makes installation faster and provides better management of your installed software.

For a complete description of the PCSI utility and the use of the PRODUCT command, refer to the *HP OpenVMS System Manager's Manual* and the *HP OpenVMS System Management Utilities Reference Manual* or online help.

If you are running older versions of OpenVMS, you may be required to install a PCSI patch kit before installing DCPS. See Table 1–2 to determine whether you need to install a PCSI patch. The patch will upgrade PCSI on your system.

OpenVMS Version	PCSI Patch Kit	
Alpha V6.2 through V7.1-2	DEC-AXPVMS-VMS62TO71U2_PCSI-V0200-4	
Alpha V7.2 and later	not required	
I64 V8.2 and later	not required	
VAX V5.5-2	not available; contact HP for a DCPS VMSINSTAL kit	
VAX V6.2 through V7.1	DEC-VAXVMS-VMS62TO71_PCSI-V0200-4	
VAX V7.2	DEC-VAXVMS-VMS72_PCSI-V0101-4	
VAX V7.3	not required	

Table 1–2 PCSI Patch Kits

You can obtain these patch kits:

- From an HP Customer Support Center
- From the HP IT Resource Center (ITRC) at http://www.itrc.hp.com

1.3.2 C Run-Time Library

DCPS requires that the C run-time library is installed on your system. This library is included with the OpenVMS operating system starting with OpenVMS V6.1, and in the DEC C/C++ Run-Time Components kit. Therefore:

- To run on any OpenVMS V6.1 or later system, no installation of the DEC C Run-Time Library is required.
- To run on OpenVMS VAX V5.5-2 systems, the DEC C/C++ Run-Time Components kit must be installed before installing DCPS.

To determine if the DEC C run-time library exists on your system, check for the existence of the file SYS\$STARTUP:CRT\$STARTUP.COM. If this file exists, the DEC C/C++ Run-Time Components kit has already been installed. If it does not, you must install the DEC C/C++ Run-Time Components kit before installing DECprint Supervisor.

The DEC C/C++ Run-Time Components kit is included on the OpenVMS VAX Software Product Library CD-ROM in the Compaq C directory. The saveset name is AACRT060.A. Please refer to the DEC C/C++ Run-Time Components documentation for information about installing the kit, starting with *Read Before Installing or Using DEC C/C++ Run-Time Components Version 6.0 for OpenVMS VAX Systems*.

1.3.3 PrintServer Software

To print to a DIGITAL PrintServer printer, the printing environment must contain a supporting host system running the PrintServer software product.

1.3.4 TCP/IP Networks

TCP/IP connections to PrintServer printers using Common Printer Access Protocol (CPAP), and connections to other printers using the Raw TCP/IP socket or LPD protocols, require one of the following:

- HP TCP/IP Services for OpenVMS
- Process Software MultiNet for OpenVMS
- Process Software TCPware for OpenVMS

1.3.5 AppleTalk Networks

One of the network protocols used by DCPS is AppleTalk, provided on OpenVMS Alpha and VAX systems by the layered product *PATHWORKS for OpenVMS (Macintosh).* Although this product is retired and no longer supported, DCPS has continued to work with AppleTalk queues.

However, changes made to OpenVMS in V8.2 prevent the AppleTalk protocol from being started. Therefore, DCPS does not work with AppleTalk queues starting with OpenVMS V8.2.

1.3.6 DDIF Printing

To print DDIF encoded bitonal images, DCPS requires that either DECwindows or DECimage Application Services (DAS) be installed on your system. DAS is only available on OpenVMS VAX systems.

1.3.7 DEC Image Print-PLUS (ICPS)

DCPS V1.1 and later versions cannot coexist with ICPS V1.x software. Installing DCPS replaces the image SYS\$LIBRARY:TRN\$DDIF_IMAGE.EXE. This new image is not compatible with the ICPS software.

1.4 Mismatched Components

All DCPS executable components attempt to ensure they are a matched set. If a mismatch occurs, DCPS reports an error when the queue starts. This error occurs when a component of a prior (incompatible) software version exists in the SYS\$SPECIFIC area and newer components are installed in the SYS\$COMMON area. The error that occurs depends on which versions of which components are executing, but the following message will be among those received:

%%%%%%%%% OPCOM 13-FEB-1995 21:38:08.66 %%%%%%%%% Message from user QUEUE_MANAGE on DAHLIA %QMAN-E-SYMDEL, unexpected symbiont process termination

The DCPS installation procedure checks for DCPS files in the SYS\$SPECIFIC area and warns you of their existence.

2 Installing the Software

This chapter describes how to install DECprint Supervisor software using the POLYCENTER Software Installation Utility (PCSI). For a complete description of the PCSI utility and the use of the PRODUCT command, refer to the HP OpenVMS System Manager's Manual and the HP OpenVMS System Management Utilities Reference Manual or online help.

2.1 Overview

Follow these steps to install the DECprint Supervisor (DCPS) for OpenVMS software:

1. Review all release notes. You can extract the release notes in text format from the PCSI kit with the command:

```
$ PRODUCT EXTRACT RELEASE NOTES DCPS -
_$ [/SOURCE=device:[directory]] -
_$ [/DESTINATION=device:[directory]]
```

You can extract the release notes in PostScript format with the command:

```
$ PRODUCT EXTRACT FILE DCPS /SELECT=DCPS025 RELEASE NOTES.PS -
$ [/SOURCE=device:[directory]] -
$ [/DESTINATION=device:[directory]]
```

- 2. Stop each DCPS queue using STOP /QUEUE /NEXT or STOP /QUEUE /RESET commands if:
 - You have existing running DCPS queues and do not want the DCPS ٠ installation procedure to automatically stop them.
 - You have DCPS executables in the SYS\$SPECIFIC system areas.*
 - You need to apply OpenVMS or other patches that impact DCPS.
- 3. Remove any DCPS executable files from the SYS\$SPECIFIC system areas.*

^{*} The installation procedure checks for such files.

- 4. Apply OpenVMS or other patches that impact DCPS, as determined from the DCPS release notes or other sources. If the patches require that you reboot your system, do so after applying the patches.
- 5. Install DCPS.
- 6. Create or update DCPS\$STARTUP.COM, as described in the *DCPS System Manager's Guide*. For example, add queue definitions to the file and set the value of the DCPS\$MAX_STREAMS logical following the examples provided in the procedure.
- 7. Start your DCPS print queues by invoking DCPS\$STARTUP.COM. The DCPS installation procedure restarted DCPS queues that it stopped, unless the installation failed. If you changed your DCPS environment or DCPS\$STARTUP.COM after the DCPS installation procedure automatically restarted some queues, you may need to stop all DCPS queues and restart them before your changes will take effect.

2.2 PCSI Conventions

PCSI will ask questions during the installation. Questions may be followed by default responses enclosed in brackets ([]). Enter your response followed by Return.

Press Return to enter the default response. If you are not sure of the response, enter a question mark (?). PCSI displays explanatory text and repeats the prompt.

Messages specific to the installation of DECprint Supervisor software are listed in Section B.4.

2.3 Installing the Software

____ Note _

This section does not reproduce all of the text you may see on your screen during the installation of the DCPS software. A sample PCSI installation is shown in Appendix A.

To install the software, use the following procedure:

1. Invoke the PCSI utility.

Enter the following command:

\$ PRODUCT INSTALL DCPS [/SOURCE=device:[directory]]

where device and directory specify the location of the DCPS PCSI kit.

Do not specify an alternate destination by using the /DESTINATION qualifier or defining the logical name PCSI\$DESTINATION. DCPS needs to be installed in the cluster common area of your system disk and will be installed there regardless of the alternate destination you specify.

2. Select the DCPS kit.

If more than one DCPS PCSI kit exists in the source directory, you will be prompted to choose one. For example:

1 - HP AXPVMS DCPS V2.4	Layered Product		
2 - HP AXPVMS DCPS V2.5	Layered Product		
3 - HP I64VMS DCPS V2.5	Layered Product		
4 - HP VAXVMS DCPS V2.5	Layered Product		
5 - All products listed above			
6 - Exit			

Choose one or more items from the menu separated by commas:

Choose the kit with the correct DCPS version and for the architecture on which you are installing DCPS.

3. Announce products to be installed.

PCSI then announces the products to be installed. For example:

The following product has been selected: HP AXPVMS DCPS V2.5 Layered Product [Installed]

Do you want to continue? [YES]

If this is the DCPS kit you want to install, press Return.

4. Check for alternate destination.

If DCPS has already been installed on your system using PCSI and you specified an alternate destination, you will see these messages:

%PCSIUI-W-DESTQUAL, destination qualifier will be ignored for this product

- * When reinstalling a product you cannot specify a destination.
- * To change the product's destination, remove the product then
- * install it to a new location. If you continue this operation,
- * the product will be reinstalled in its current location.

Do you want to continue? [YES]

Since DCPS is always installed in SYS\$COMMON on your system disk, press Return to continue the installation.

5. Start the installation.

PCSI then starts the installation, displaying messages such as:

Configuration phase starting ...

You will be asked to choose options, if any, for each selected product and for any products that may be installed to satisfy software dependency requirements.

HP AXPVMS DCPS V2.5: HP DECprint Supervisor for OpenVMS

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6. Check for sufficient disk space.

PCSI checks to see if the amount of disk space required for the installation is available. If the space is not available, a message indicates the amount of disk space that is required, and the installation is aborted. You must allocate sufficient disk space and then start the PCSI procedure again.

If there is sufficient disk space, the installation procedure continues.

7. Make sure the queue manager is running.

The installation procedure checks to see if the queue manager is running on your system.

If the queue manager is not running, the Installation Verification Procedure (IVP) does not run, and the following messages are displayed on your screen:

The queue manager is not running. The IVP will not be run.

The queue manager must be running if you want the installation to run the IVP.

8. Check for running DCPS queues.

The DCPS installation begins by looking for DCPS queues on your system:

Examining system environment ...

If no DCPS print queues are running, skip the next two steps.

9. Choose whether to display queues to be stopped.

If DCPS print queues are running, one of the following messages are displayed.

• If the queues are all running on the current system:

You should stop all running DCPS queues on this system (node-name).

Do you want to see a list of queues that will be stopped? [NO]

• If there are also queues running on systems that use the current system's system disk:

```
You should stop all running DCPS queues affected by this
installation. This includes queues on these systems:
node-name
.
.
.
node-name
```

If you want to see a list of DCPS queues that will be stopped by the installation procedure, enter YES and press Return. Otherwise, press Return.

10. Choose which queues to stop.

Since the DCPS installation installs a new version of software in the cluster common directory on the current system, you should stop all DCPS queues running on systems that use the current system disk. This choice is the default.

Depending on your environment, you are given a number of choices when deciding what queues to stop during the installation. The choices include:

• Stop the *n* DCPS queues on this system

This choice is the default if running DCPS queues are found on your system.

• Stop the *n* DCPS queues affected by this installation

This choice is the default if running DCPS queues are found both on the current system and others that use the current system disk.

- Continue installation (there are no running queues on this system) This choice is the default if no running DCPS queues are found that would be affected by the installation.
- Stop the *n* DCPS queues in the cluster

There is no need to stop queues in the cluster not affected by the installation, but this option is offered for convenience. (This is the DCPS V2.4 installation behavior.)

• Do not stop any queues (not recommended)

This is not recommended because unpredictable results may occur. Running queues are still running the old DCPS software until the queues are stopped, but, for example, device control libraries are updated by the installation and may be incompatible with the old software. If you choose this option, queues should be stopped and restarted as soon as possible after the installation completes.

Choices are presented in a numbered list similar to the following:

Choose from the following options:

1 - Stop the n DCPS queues on this system 2 - Stop the n DCPS queues in the cluster 3 - Do not stop any queues (not recommended)

Enter option: [1]

Make your choice and press Return.

If you previously chose to display a list of queues that would be stopped, that list is now displayed:

Queue	Status	Node	Device	
queue-name	status	node	"protocol/host:port"	
•				
•				
queue-name	status	node	"protocol/host:port"	

11. Choose to continue the installation.

After making your choice, one of the following messages is displayed.

• If queues are being stopped:

Do you want to stop the queues and continue the installation? [YES]

• If queues are not being stopped:

Do you want to continue the installation? [YES]

Press Return to continue or enter NO and press Return to abort the installation. If you continue, and queues are being stopped, the following messages are displayed:

If the installation fails, DCPS queues may need to be restarted manually.

Stopping DCPS queues ...

12. Check for files in SYS\$SPECIFIC.

DCPS requires all its files to be installed in SYS\$COMMON. Although files can be put in SYS\$SPECIFIC for debugging or testing purposes, it is not supported.

If DCPS images are found in SYS\$SPECIFIC, messages similar to the following are displayed:

This system contains DCPS images in SYS\$SPECIFIC:

disk: [SYSn.SYSEXE] DCPS\$SMB.EXE; n

The existence of DCPS files in SYS\$SPECIFIC is not supported.

If these files remain, they will be used instead of the DCPS product files you are installing now, and the IVP may test the wrong or mismatched DCPS components. These files can cause unpredictable DCPS behavior on your system.

Do you want to continue the installation? [NO]

You should choose to abort the installation by pressing $\boxed{\text{Return}}$. If you are sure you want to continue, enter YES and press $\boxed{\text{Return}}$ and the installation will continue.

13. Specify location for Layup files.

Next, the installation procedure looks for a definition of the logical name DCPS\$LAYUP in the system table in executive mode. This logical name points to the location of DCPS layup files. The default location is SYS\$COMMON:[SYSHLP.EXAMPLES.DCPS].

Although the installation procedure will put new versions of layup files into your site-specific directory if it is already defined, it will not prompt for a new location. If you want your layup files to be in a different directory, usually done so that non-privileged users can modify them, you should manually copy them after the installation is complete and modify the value of DCPS\$LAYUP at the bottom of the SYS\$STARTUP:DCPS\$REQUIRED.COM command procedure.

- If a definition exists and it is the default location, no messages are displayed.
- If a definition exists and it is a site-specific one, a message showing its value is displayed:

Layup files will be copied to disk: [directory].

• If no definition exists, the default location is used.

If files cannot be copied to your site-specific DCPS\$LAYUP directory (for example, if the directory does not exist) messages similar to the following will be displayed:

There is a problem with your definition of DCPS\$LAYUP. Layup files will not be copied to DISK\$INVALID: [WOOPS].

14. Specify location for spool directory.

If DCPS V2.5 or later has already been installed, and the startup procedure has been run, the spool directory location has already been specified and this step is skipped.

The DCPS spool directory is used to store temporary spool files for LPD jobs when the DCPS\$SPOOL or DCPS\$*queue-name_SPOOL* logical name is defined. (See the *DCPS System Manager's Guide* for more information about DCPS LPD spooling.)

You should specify a device or device and directory that is not on a system disk and that is available to all systems for which DCPS spooling is used. You are asked for a location for the directory, which is always called [DCPS\$SPOOL]:

DCPS, when so configured, will store temporary spool files in directory [DCPS\$SPOOL]. By default, this directory is created in SYS\$COMMON. It is recommended that you choose a non-system disk for this directory.

Enter location for DCPS spool directory: [SYS\$COMMON]

You can answer with either just a device name or a device and directory name. Table 2–1 shows where the spool directory will be created with various answers for its location:

Table 2–1 Spool Directory	Location Examples
---------------------------	-------------------

If you answer	the spool file directory will be
Return (default answer)	SYS\$COMMON:[DCPS\$SPOOL]
DISK\$USER	DISK\$USER:[DCPS\$SPOOL]
SYS\$COMMON:[OTHER_FILES]	SYS\$COMMON:[OTHER_FILES.DCPS\$SPOOL]
DISK\$USER:[DCPS]	DISK\$USER:[DCPS.DCPS\$SPOOL]

After answering the question, you verify the directory that will be created:

The DCPS spool directory will be created at disk:[directory]

```
Is this correct? [YES]
```

 $\label{eq:Return} \mbox{Press [Return] to accept this location or enter N and press [Return] to specify a different location. \\$

15. Install the software.

PCSI displays the following messages indicating its progress in installing DCPS:

* This product does not have any configuration options.

Execution phase starting ...

The following product will be installed to destination: HP AXPVMS DCPS V2.5 DISK\$SYS_SARAH:[VMS\$COMMON.]

Portion done: 0%...10%...20%...30%...40%...50%...60%...70%...80%...90%...100%

16. Check for alternate destination.

If DCPS has never been installed on your system using PCSI, or it has been installed and removed, and you specified an alternate destination, you will see these messages:

You have specified an alternate destination by using the /DESTINATION qualifier or defining the logical name PCSI\$DESTINATION.

Since DCPS must reside in cluster common directories, DCPS has has been installed using the default destination of SARAH\$DKA0:[SYS0.SYSCOMMON.] instead of the destination you specified, SARAH\$DKB0:[OTHER.].

This step occurs in between the 90% and 100% done messages.

17. Start queues.

After the DCPS files have been installed, running DCPS queues that were stopped earlier in the installation are now started. If queues were stopped by the installation, the following message is displayed:

Starting DCPS queues ...

This step occurs in between the 90% and 100% done messages.

18. Verify successful installation.

The IVP verifies that the software was installed properly. If the system queue manager is running, the IVP runs automatically and the installation procedure performs the following:

- 1. Creates a temporary print queue
- 2. Queues the test files in [SYSTEST.DCPS] to the temporary print queue DCPS\$IVP_TEST

3. Displays messages similar to the following:

%PCSI-I-IVPEXECUTE, executing test procedure for HP AXPVMS DCPS V2.5 ... Job DCPS\$IVP_POST (queue DCPS\$IVP_TEST, entry n started on DCPS\$IVP_TEST %DCPS-I-JOBSTART, Job DCPS\$IVP_POST (queue DCPS\$IVP_TEST, entry n) started on DCPS\$IVP_TEST . . Job DCPS\$IVP_LIST (queue DCPS\$IVP_TEST, entry 49) completed

Note

The IVP does not produce any hardcopy output.

The IVP procedure automatically deletes the temporary queue when the IVP completes. You can print the IVP test files to a real printer later. (Refer to the *DCPS System Manager's Guide.*)

You can also manually invoke the IVP after the installation by entering:

\$ @SYS\$TEST:DCPS\$IVP

PCSI issues an informational message when the IVP is completed:

%PCSI-I-IVPSUCCESS, test procedure completed successfully

19. Create queues and customize your environment.

Refer to the *DCPS System Manager's Guide* for instructions on how to create print queues and customize your printing environment.

A Sample Installation Session

Example A–1 shows a sample installation of the DECprint Supervisor software on an OpenVMS I64 system with no previous DCPS queues running. Example A–2 shows a sample installation on an OpenVMS Alpha system in a cluster with running DCPS queues.

Example A-1 Sample New Installation on an OpenVMS I64 System

\$ PRODUCT INSTALL DCPS /SOURCE=DQA0:[DCPS025.KIT] 1 - HP AXPVMS DCPS V2.5 Layered Product 2 - HP I64VMS DCPS V2.5 Layered Product 3 - HP VAXVMS DCPS V2.5 Layered Product 4 - All products listed above 5 - Exit Choose one or more items from the menu separated by commas: 2 The following product has been selected: HP I64VMS DCPS V2.5 Layered Product Do you want to continue? [YES] Return Configuration phase starting ... You will be asked to choose options, if any, for each selected product and for any products that may be installed to satisfy software dependency requirements. HP I64VMS DCPS V2.5: HP DECprint Supervisor for OpenVMS © Copyright 2005 Hewlett-Packard Development Company, L.P. Examining system environment ... * This product does not have any configuration options. Execution phase starting ... Do you want to continue? [YES] Return

Example A-1 (Cont.) Sample New Installation on an OpenVMS I64 System

The following product will be installed to destination: HP I64VMS DCPS V2.5 DISK\$SYS SARAH: [VMS\$COMMON.] Portion done: 0%...10%...20%...30%...40%...50%...60%...70%...80%...90%...100% The following product has been installed: HP I64VMS DCPS V2.5 Layered Product %PCSI-I-IVPEXECUTE, executing test procedure for HP I64VMS DCPS V2.5 ... %DCPS-I-JOBSTART, Job DCPS\$IVP POST (queue DCPS\$IVP TEST, entry 150) started on DCPS\$IVP TEST Job DCPS\$IVP POST (queue DCPS\$IVP TEST, entry 150) completed %DCPS-I-JOBSTART, Job DCPS\$IVP ANSI (queue DCPS\$IVP TEST, entry 151) started on DCPS\$IVP TEST Job DCPS\$IVP ANSI (queue DCPS\$IVP TEST, entry 151) completed %DCPS-I-JOBSTART, Job DCPS\$IVP REGIS (queue DCPS\$IVP_TEST, entry 152) started on DCPS\$IVP_TEST Job DCPS\$IVP REGIS (queue DCPS\$IVP TEST, entry 152) completed *DCPS-I-JOBSTART, Job DCPS\$IVP_TEK4014 (queue DCPS\$IVP_TEST, entry 153) started on DCPS\$IVP_TEST Job DCPS\$IVP_TEK4014 (queue DCPS\$IVP_TEST, entry 153) completed %DCPS-I-JOBSTART, Job DCPS\$IVP PCL (queue DCPS\$IVP TEST, entry 154) started on DCPS\$IVP TEST Job DCPS\$IVP PCL (queue DCPS\$IVP TEST, entry 154) completed %DCPS-I-JOBSTART, Job DCPS\$IVP PROPRINTER (queue DCPS\$IVP TEST, entry 155) started on DCPS\$IVP TEST Job DCPS\$IVP PROPRINTER (queue DCPS\$IVP TEST, entry 155) completed %DCPS-I-JOBSTART, Job DCPS\$IVP LIST (queue DCPS\$IVP TEST, entry 156) started on DCPS\$IVP TEST Job DCPS\$IVP LIST (queue DCPS\$IVP TEST, entry 156) completed %PCSI-I-IVPSUCCESS, test procedure completed successfully HP I64VMS DCPS V2.5: HP DECprint Supervisor for OpenVMS

DCPS Release Notes (text and PostScript) have been provided in SYS\$HELP

Example A–2 Sample Upgrade Installation on an OpenVMS Alpha System

\$ PRODUCT INSTALL DCPS /SOURCE=DQA0:[DCPS025.KIT]

1 - HP AXPVMS DCPS V2.5 2 - HP I64VMS DCPS V2.5 3 - HP VAXVMS DCPS V2.5 4 - All products listed above 5 - Exit	Layered Product Layered Product Layered Product
Choose one or more items from the menu se	eparated by commas: 1
The following product has been selected: HP AXPVMS DCPS V2.5	Layered Product

Example A-2 (Cont.) Sample Upgrade Installation on an OpenVMS Alpha System

Do you want to continue? [YES] Return

The following product will be installed to destination: HP AXPVMS DCPS V2.5 DISK\$SYS_JULIE:[VMS\$COMMON.] The following product will be removed from destination:

HP AXPVMS DCPS V2.4 DISK\$SYS JULIE: [VMS\$COMMON.]

Configuration phase starting ...

You will be asked to choose options, if any, for each selected product and for any products that may be installed to satisfy software dependency requirements.

HP AXPVMS DCPS V2.5: HP DECprint Supervisor for OpenVMS

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Examining system environment ...

You should stop all running DCPS queues on this system (JULIE).

Do you want to see a list of queues that will be stopped? [NO] Y

Choose from the following options:

1 - Stop the 15 DCPS queues on this system 2 - Stop the 171 DCPS queues in the cluster

3 - Do not stop any queues (not recommended)

Enter option: [1]

Queue	Status	Node	Device
HP1320 LPD	Idle	JULIE	"IP LPD/lj1320"
HP1320 RAW	Idle	JULIE	"IP RawTCP/1j1320:9100"
HP2430 LPD	Idle	JULIE	"IP_LPD/lj2430"
HP2430_LPDREMOTE	Idle	JULIE	"IP_LPD/unixsystem:hp2430_raw"
HP3800_LPD	Idle	JULIE	"IP_LPD/clj3800"
HP3800 RAW	Idle	JULIE	"IP [_] RawTCP/clj3800:9100"
HP4600_LPD	Idle	JULIE	"IP_LPD/dcpshp4600"
HP4600 RAW	Idle	JULIE	"IP RawTCP/dcpshp4600:9100"
HP4700 RAW	Idle	JULIE	"IP RawTCP/clj4700:9100"
HP5200 LPD	Idle	JULIE	"IP_LPD/1j5200"
HP5200 RAW	Idle	JULIE	"IP [_] RawTCP/lj5200:9100"
HP9000MFP RAW	Idle	JULIE	"IP RawTCP/hp03026.zko.dec.com:9100"
HP9000 POD	Idle	JULIE	"IP RawTCP/hp34hp312.zko.dec.com:9100"
LN28 LPD	Idle	JULIE	"IP RawTCP/ln28:9100"
LN32_LAT	Idle	JULIE	"serial/DCPS_LN32"

Do you want to stop the queues and continue the installation? [YES] Return

If the installation fails, DCPS queues may need to be restarted manually.

Example A-2 (Cont.) Sample Upgrade Installation on an OpenVMS Alpha System

Stopping DCPS queues ...

DCPS, when so configured, will store temporary spool files in directory [DCPS\$SPOOL]. By default, this directory is created in SYS\$COMMON. It is recommended that you choose a non-system disk for this directory.

Enter location for DCPS spool directory: [SYS\$COMMON] DISK\$HELPER

The following DCPS spool directory will be created:

DISK\$HELPER: [DCPS\$SPOOL]

Is this correct? [YES] Return

* This product does not have any configuration options.

Execution phase starting ...

The following product will be installed to destination: HP AXPVMS DCPS V2.5 DISK\$SYS JULIE: [VMS\$COMMON.] The following product will be removed from destination: HP AXPVMS DCPS V2.4 DISK\$SYS ROUTE2: [VMS\$COMMON.] Portion done: 0%...10%...20%...30%...40%...50%...60%...70%...80%...90% Starting DCPS queues100% The following product has been installed: HP AXPVMS DCPS V2.5 Layered Product The following product has been removed: HP AXPVMS DCPS V2.4 Layered Product %PCSI-I-IVPEXECUTE, executing test procedure for HP AXPVMS DCPS V2.5 ... %DCPS-I-JOBSTART, Job DCPS\$IVP POST (queue DCPS\$IVP TEST, entry 157) started on DCPS\$IVP TEST Job DCPS\$IVP POST (queue DCPS\$IVP TEST, entry 157) completed %DCPS-I-JOBSTART, Job DCPS\$IVP ANSI (queue DCPS\$IVP TEST, entry 158) started on DCPS\$IVP TEST Job DCPS\$IVP ANSI (queue DCPS\$IVP TEST, entry 158) completed %DCPS-I-JOBSTART, Job DCPS\$IVP REGIS (queue DCPS\$IVP TEST, entry 159) started on DCPS\$IVP TEST Job DCPS\$IVP_REGIS (queue DCPS\$IVP_TEST, entry 159) completed *DCPS-I-JOBSTART, Job DCPS\$IVP TEK4014 (queue DCPS\$IVP TEST, entry 160) started on DCPS\$IVP TEST Job DCPS\$IVP TEK4014 (queue DCPS\$IVP TEST, entry 160) completed %DCPS-I-JOBSTART, Job DCPS\$IVP PCL (queue DCPS\$IVP TEST, entry 161) started on DCPS\$IVP TEST Job DCPS\$IVP PCL (queue DCPS\$IVP TEST, entry 161) completed %DCPS-I-JOBSTART, Job DCPS\$IVP PROPRINTER (queue DCPS\$IVP TEST, entry 162) started on DCPS\$IVP TEST Job DCPS\$IVP PROPRINTER (queue DCPS\$IVP TEST, entry 162) completed %DCPS-I-JOBSTART, Job DCPS\$IVP_LIST (queue DCPS\$IVP_TEST, entry 163) started on DCPS\$IVP_TEST

Example A-2 (Cont.) Sample Upgrade Installation on an OpenVMS Alpha System

Job DCPS\$IVP_LIST (queue DCPS\$IVP_TEST, entry 163) completed %PCSI-I-IVPSUCCESS, test procedure completed successfully

HP AXPVMS DCPS V2.5: HP DECprint Supervisor for OpenVMS

DCPS Release Notes (text and PostScript) have been provided in SYS\$HELP

B

Installing the Software with VMSINSTAL

This appendix describes how to install DECprint Supervisor software using the VMSINSTAL utility. VMSINSTAL is used to install DCPS on systems running versions of OpenVMS older than V6.2. If you are not familiar with the VMSINSTAL utility, refer to the *HP OpenVMS System Manager's Manual*.

B.1 Overview

Follow the steps in Section 2.1 to prepare for the DCPS installation.

B.2 VMSINSTAL Conventions

VMSINSTAL will prompt you for site-specific information. Questions are preceded by an asterisk (*) and may be followed by default responses enclosed in brackets ([]). Enter your response followed by Return.

Press Return to enter the default response. If you are not sure of the response, enter a question mark (?). VMSINSTAL displays explanatory text and repeats the prompt.

Messages specific to the installation of DECprint Supervisor software are listed in Section B.4.

B.3 Installing the Software

Note

This section does not reproduce all of the text you may see on your screen during the installation of the DCPS software. Sample VMSINSTAL installation scripts are shown in Section B.5.

To install the software, use the following procedure:

1. Invoke the VMSINSTAL procedure.

Enter the following command:

\$ @SYS\$UPDATE:VMSINSTAL DCPSpppnnn device-id [OPTIONS N]

You supply the following information:

- DCPS*pppnnn* is the save set name, with *ppp* designating the platform (AXP [Alpha] or VAX) and *nnn* designating the version (for example, 025 for V2.5).
- *device-id* is the name of the device on which you want to mount the media, such as DQA0:.
- OPTIONS N allows you to request release notes. If you do not include the OPTIONS N parameter, VMSINSTAL does not ask you about the release notes. Review the release notes before proceeding with the installation. If you are restarting the installation and have already reviewed the release notes, you do not need to specify OPTIONS N.

First, VMSINSTAL displays a banner line with the date and time, and instructions for running the dialog. You may receive one or more of the following warning messages when VMSINSTAL starts up. Exit from the procedure, correct the cause of the warning message, and start the VMSINSTAL procedure again.

• If you are not currently logged in to the SYSTEM account, the following message is displayed:

%VMSINSTAL-W-NOTSYSTEM, You are not logged in to the SYSTEM account.

• If processes are running while VMSINSTAL is running, the following message is displayed:

%VMSINSTAL-W-ACTIVE, The following processes are still active: process-name

Other processes may cause the installation of HELP to fail. When any of these messages are displayed, the following question is displayed to allow you to terminate VMSINSTAL and correct the situation:

* Do you want to continue anyway [NO]?

Enter YES to continue. If you answer NO, the VMSINSTAL procedure is terminated immediately.

You can enter a question mark (?) at this time to display advice from the VMSINSTAL software. For example:

The above conditions may cause VMSINSTAL to function improperly. In particular, problems may occur with file ownership if you are not logged into the SYSTEM account.

2. Ensure that existing software is saved.

VMSINSTAL then asks the following question:

* Are you satisfied with the backup of your system disk [YES]?

Enter YES to continue, or enter NO to exit VMSINSTAL to make a backup and run VMSINSTAL again.

If you enter a question mark (?) in response to this question, VMSINSTAL displays the following explanation:

VMSINSTAL attempts to ensure that a power failure or system crash will not corrupt your system disk. However, for absolute safety we recommend that you back it up before installing new products. Please see the documentation for more information on crashes during installation.

3. Confirm that distribution media is loaded.

VMSINSTAL asks for confirmation that the distribution media has been mounted.

Please mount the first volume of the set on *device-id*: * Are you ready?

4. Announce products to be installed.

VMSINSTAL then announces the products to be installed where *ppp* designates the platform and *n.n* designates the version.

The following products will be processed:

DCPSppp Vn.n

Beginning installation of DCPSppp Vn.n at 13:45

%VMSINSTAL-I-RESTORE, Restoring product saveset A

5. Obtain the release notes.

If you specified OPTIONS N in the VMSINSTAL command line, the following Release Notes options are displayed:

Release notes included with this kit are always copied to SYS\$HELP.

Additional Release Notes Options:

Release Notes Options:

- (1) Display release notes
- (2) Print release notes
- (3) Both 1 and 2 $\,$
- (4) None of the above

After you enter the release note option, VMSINSTAL asks whether you want to continue the installation procedure:

Do you want to continue the installation [NO]?

If you did not include the OPTIONS N portion of the VMSINSTAL command line, VMSINSTAL does not display this question. Instead, the following message is displayed:

%VMSINSTAL-I-RELMOVED, Product's release notes have been moved to SYS\$HELP

6. Check for active DCPS queues.

If DCPS print queues are active while VMSINSTAL is running, messages similar to the following are displayed:

%DCPSVAX-W-QUEACTIVE, The following DCPS queues are still active:

Queue	Device	Status
LN09	DAN::LTA9000:	IDLE
LN17	DAN::"AppleTalk/Dan's LN17+ps"	IDLE
LN40	DAN::"IP RawTCP/ln40:6869"	IDLE
LPS32	DAN::"IP_CPAP/lps32.office.genicom.com"	IDLE

%DCPSVAX-I-NUMQUEUES, 4 existing DCPS queues, with 4 active

Previously installed DCPS queues are still running. Continuing this installation without entering STOP/QUEUE/RESET for each such queue can cause inconsistent behavior among queues and can cause the IVP to fail.

Note that if you choose to have this installation procedure automatically stop such queues, and the installation subsequently aborts, this procedure will not automatically restart them.

* Do you want these queues automatically stopped and restarted [YES]?

If you do not want the installation procedure to automatically stop them, you are given the options of aborting the installation or continuing with the queues active. Continuing is **not** recommended.

7. Check for sufficient disk space.

VMSINSTAL checks to see if the amount of disk space required for the installation is available. If the space is not available, a message indicates the amount of disk space that is required, and the installation is aborted. You must allocate sufficient disk space and then start the VMSINSTAL procedure again. However, if you have already provided enough disk space, the installation procedure continues.

8. Purge extraneous versions of files.

VMSINSTAL asks if you want to purge any files that are being replaced.

* Do you want to purge files replaced by this installation [YES]?

Enter YES if you want to save disk space or NO if you think the files may still be of use.

If you enter a question mark (?) in response to this query, the following message is displayed:

During this installation, new files will be provided to replace existing versions. You may purge these older versions to save disk space, or keep them if you feel they may be of use. Purging is recommended.

9. Define DCPS\$LAYUP.

Next, the installation procedure looks for a definition of the logical name DCPS\$LAYUP in the system table in executive mode.

• If a definition exists, the following message is displayed:

```
%DCPSppp-I-LAYUPDEF, DCPS$LAYUP is already defined
-DCPSppp-I-LAYUPDEF, This installation will use its value
```

 If a definition does not exist, the procedure asks you for a definition. Press <u>Return</u> to select the default, SYS\$SYSROOT:[SYSHLP.EXAMPLES.DCPS], or enter a directory specification where the system layup definition files should be stored.

* Full definition for DCPS\$LAYUP [SYS\$SYSROOT:[SYSHLP.EXAMPLES.DCPS]]:

The procedure will validate the definition you provide. If you do not accept the default location and the specified directory does not exist, the procedure will ask you if you want to create it:

DISK\$USER: [MY-LAYUP-DIR] does not exist.

* Create it? [N]?

If you answer NO, the procedure will ask again for a definition.

10. Create directories.

VMSINSTAL then attempts to create several directories. If they already exist, it displays additional messages indicating this:

%VMSINSTAL-I-SYSDIR, This product creates system disk directory VMI\$ROOT:[SYSTEST.DCPS]. %CREATE-I-EXISTS, VMI\$ROOT:[SYSTEST.DCPS] already exists %VMSINSTAL-I-SYSDIR, This product creates system disk directory VMI\$ROOT:[SYSHLP.EXAMPLES.DCPS]. %CREATE-I-EXISTS, VMI\$ROOT:[SYSHLP.EXAMPLES.DCPS] already exists

11. Make sure the queue manager is running.

VMSINSTAL checks to see if the queue manager is running on your system.

If the queue manager is not present, the Installation Verification Procedure (IVP) does not run, and the following messages are displayed on your screen:

%DCPSppp-I-NOQUEMGR, System queue manager is not running -DCPSppp-I-NOQUEMGR, IVP will NOT run. Installation continuing ...

The queue manager must be running if you want the installation to run the IVP.

12. Stop queues.

At this point, VMSINSTAL displays the following message on your screen:

%DCPSppp-I-NOQUEST, No further questions will be asked.

VMSINSTAL stops active DCPS queues, if any and if desired.

%DCPSppp-I-STOPQUEUES, Stopping queues previously reported as active.

13. **Restore the remaining save sets.** As it restores each save set, VMSINSTAL reports on its progress:

VMSINSTAL-I-RESTORE, Restoring product saveset B ... VMSINSTAL-I-RESTORE, Restoring product saveset C ...

This operation may require up to 10 minutes to complete.

When all the save sets have been restored, VMSINSTAL instructs you to perform postinstallation procedures. Refer to the *DCPS System Manager's Guide* for full instructions.

Next, VMSINSTAL moves the files from the temporary locations used during installation to their permanent directories.

%VMSINSTAL-I-MOVEFILES, Files will now be moved to their target directories...

14. Verify a successful software loading procedure.

The IVP verifies that the software was loaded properly. If the system queue manager is running, the IVP runs automatically and VMSINSTAL performs the following:

- 1. Creates a temporary print queue
- 2. Queues the test files in [SYSTEST.DCPS] to the temporary print queue DCPS\$IVP_TEST

3. Displays messages similar to the following:

Job DCPS\$IVP_POST (queue DCPS\$IVP_TEST, entry 43) started on DCPS\$IVP_TEST %DCPS-I-JOBSTART, Job DCPS\$IVP POST (queue DCPS\$IVP TEST, entry 43) started on DCPS\$IVP TEST Job DCPS\$IVP_POST (queue DCPS\$IVP_TEST, entry 43) completed Job DCPS\$IVP_ANSI (queue DCPS\$IVP_TEST, entry 44) started on DCPS\$IVP_TEST %DCPS-I-JOBSTART, Job DCPS\$IVP ANSI (queue DCPS\$IVP TEST, entry 44) started on DCPS\$IVP TEST Job DCPS\$IVP ANSI (queue DCPS\$IVP TEST, entry 44) completed Job DCPS\$IVP REGIS (queue DCPS\$IVP TEST, entry 45) started on DCPS\$IVP TEST %DCPS-I-JOBSTART, Job DCPS\$IVP REGIS (queue DCPS\$IVP TEST, entry 45) started on DCPS\$IVP TEST Job DCPS\$IVP REGIS (queue DCPS\$IVP TEST, entry 45) completed Job DCPS\$IVP TEK4014 (queue DCPS\$IVP TEST, entry 46) started on DCPS\$IVP TEST %DCPS-I-JOBSTART, Job DCPS\$IVP TEK4014 (queue DCPS\$IVP TEST, entry 46) started on DCPS\$IVP TEST Job DCPS\$IVP_TEK4014 (queue DCPS\$IVP_TEST, entry 46) completed Job DCPS\$IVP_PCL (queue DCPS\$IVP_TEST, entry 47) started on DCPS\$IVP_TEST %DCPS-I-JOBSTART, Job DCPS\$IVP PCL (queue DCPS\$IVP TEST, entry 47) started on DCPS\$IVP TEST Job DCPS\$IVP PCL (queue DCPS\$IVP TEST, entry 47) completed Job DCPS\$IVP PROPRINTER (queue DCPS\$IVP TEST, entry 48) started on DCPS\$IVP TEST %DCPS-I-JOBSTART, Job DCPS\$IVP PROPRINTER (queue DCPS\$IVP TEST, entry 48) started on DCPS\$IVP TEST Job DCPS\$IVP PROPRINTER (queue DCPS\$IVP TEST, entry 48) completed Job DCPS\$IVP LIST (queue DCPS\$IVP TEST, entry 49) started on DCPS\$IVP TEST %DCPS-I-JOBSTART, Job DCPS\$IVP LIST (queue DCPS\$IVP TEST, entry 49) started on DCPS\$IVP TEST Job DCPS\$IVP LIST (queue DCPS\$IVP TEST, entry 49) completed

__ Note __

The IVP does not produce any hardcopy output.

The IVP procedure automatically deletes the temporary queue when the IVP completes. You can print the IVP test files to a real printer later. (Refer to the *DCPS System Manager's Guide*.)

You can also manually invoke the IVP after the installation by entering:

\$ @SYS\$TEST:DCPS\$IVP

VMSINSTAL issues an informational message when the IVP is completed:

IVP successful for OpenVMS DECprint Supervisor Software

15. Restart queues.

VMSINSTAL restarts previously stopped queues if the installation is successful and issues its final messages:

%DCPSppp-I-STARTQUEUES, Restarting queues previously reported as active.

Installation of DCPSppp Vn.n completed at 14:04

VMSINSTAL procedure done at 14:08

16. Where to go from here.

Refer to the *DCPS System Manager's Guide* for instructions on how to create print queues and customize your printing environment.

B.4 System Messages

\$

This appendix describes DECprint Supervisor installation messages.

B.4.1 System Message Overview

DCPS system messages have one of the following formats:

%fac-s-ident, text -fac-s-ident, text

Code	Meaning
%	The prefix for all primary messages
-	The prefix for all continuation messages
fac	The facility code, which should be DCPS
S	The severity level of the message
ident	An abbreviation of the message text
text	The expanded text of the message

The severity levels of DECprint Supervisor system messages are defined as follows:

Code	Meaning
S	Success — successful completion of the request
Ι	Informational — may require user action
W	Warning — request may not have completed and may require user action
Е	Error — system encountered an error that may be recoverable
F	$\ensuremath{Fatal}\xspace - \ensuremath{system}\xspace$ encountered a fatal error and cannot continue processing this request

B.4.2 DCPS Installation Messages

The following DCPS message descriptions are alphabetized by the *ident* portion of the message. The message severity level and text are also shown, while the prefix and facility designation (DCPS*ppp* are omitted. If you receive a message from a facility other than DCPS, refer to the *HP OpenVMS System Messages: Companion Guide for Help Message Users* for the message description or use the online help message utility with the command HELP /MESSAGE.

E-BADSPEC, File spec LPS\$SINGLEHOLES.LUP cannot be parsed

Explanation: The current definition of the logical name DCPS\$LAYUP is invalid, possibly because of an incorrect answer given to the question about the location of layup files in an earlier DCPS installation. (DCPS V1.6 and later now validate such responses; see the Release Notes for more information.)

User Action: Deassign the logical name with the command:

\$ DEASSIGN /EXECUTIVE MODE /SYSTEM DCPS\$LAYUP

Then start the DCPS installation again and you will be prompted for the location for the layup files.

E-BADVMSVER, This product requires OpenVMS version *version* or later to install

Explanation: The DCPS software requires a later version of the OpenVMS operating system.

User Action: Upgrade your operating system to the correct version.

I-ESTTIME, This installation will take between 1 and 10 minutes, I-ESTTIME, excluding time needed to stop and restart active queues.

Explanation: This informational message estimates the time it will take to install the software.

User Action: No action is required.

W-HIDES, If these files remain, they will be used instead of the W-HIDES, DCPS product files you are installing now, and the IVP

Explanation: DCPS warns you that the existing DCPS files in SYS\$SPECIFIC directories will be used instead of the latest ones.

User Action: Remove or rename the listed DCPS files from the SYS\$SPECIFIC directories.

E-INVDIRSPE, invalid directory specification

Explanation: The syntax of the directory specified is not correct.

User Action: Specify a directory with correct syntax.

I-LAYUPDEF, DCPS\$LAYUP is already defined.

I-LAYUPDEF, This installation will use its value.

Explanation: The installation uses the existing logical name for DCPS\$LAYUP.

User Action: No action is required.

I-NOHELP, There is no help in this install procedure.

I-NOHELP, Please refer to the Software Installation Guide.

Explanation: This informational messages states that no help is available.

User Action: Refer to the *DCPS Software Installation Guide* for more information.

I-NOQUEMGR, System queue manager is not running. I-NOQUEMGR, IVP will NOT be run. Installation continuing.

Explanation: The queue manager is not running on your system. The installation will continue, but the Installation Verification Procedure cannot run.

User Action: After the installation, start the queue manager and then manually invoke the IVP (@SYS\$TEST:DCPS\$IVP).

I-NOQUEST, No further questions will be asked

Explanation: The VMSINSTAL procedure will continue from this point without requiring further input from you.

User Action: No action is required.

W-NORSTRT, Automatically stopped queues have not been restarted

Explanation: VMSINSTAL has not restarted queues that it automatically stopped.

User Action: Resolve the problem that caused the installation to terminate abnormally, and then manually restart the queues that the DCPS installation procedure previously listed as active.

E-NOSUCHDEV, no such device available

Explanation: The device specified does not exist.

User Action: Specify a device that exists on your system.

E-NO_DECC_RTL, DEC C run-time library is not installed.

Explanation: There is no DEC C run-time library on your system. **User Action:** Install the DEC C/C++ Run-Time Components kit.

E-NO_QUEMAN, This product requires the queue management facility to install.

Explanation: The queue manager could not be found. The installation procedure is aborted.

User Action: Start the queue manager. For information refer to the *HP OpenVMS System Management Utilities Reference Manual.*

E-NO_SPACE, This product requires *number* blocks of disk space to install. **Explanation:** There are not enough free disk blocks to install this software. The installation procedure terminates.

User Action: Ensure that you have at least the specified number of free disk blocks and restart the installation.

I-NUMQUEUES, *existing-number* existing DCPS queues, with *active-number* active.

Explanation: This message informs you of the number of DCPS queues you have and how many of them are active (that is, not stopped).

User Action: No action is required.

W-PURGW, Purging files may leave running queues with no image file and the IVP may fail.

Explanation: Purging DCPS files while multistream DCPS symbionts are still active can cause problems.

User Action: Avoid purging existing files, or stop all active queues before proceeding with the installation.

I-QSCANNING, Looking for existing DCPS print queues...

Explanation: This informational message tells you that the installation procedure is checking for print queues that already exist.

User Action: No action is required.

W-QUEACTIVE, The following queues are still active:

Explanation: The installation procedure found some DCPS queues still active, as listed in subsequent lines. If you do not stop the active queues, the installation may fail or interfere with jobs that are currently printing.

User Action: When subsequently asked, allow VMSINSTAL to automatically stop the queues, or manually stop them yourself and restart the installation procedure. If some of the queues are not in an idle state, you may wish to wait until all jobs have finished printing.

I-STARTQUEUES, Restarting queues previously reported as active

Explanation: VMSINSTAL is currently restarting all queues it had previously reported as active.

Explanation: No action is required.

I-STOPQUEUES, Stopping queues previously reported as active

Explanation: VMSINSTAL is currently stopping all queues it had previously reported as active.

User Action: No action is required.

W-SYSPF, This system contains DCPS images in SYS\$SPECIFIC areas:

Explanation: Your system has one or more DCPS executable images in a SYS\$SPECIFIC directory, as listed in subsequent lines. The new images that you are about to install will not be used because of the presence of the SYS\$SPECIFIC versions.

User Action: Delete or rename the DCPS files in the SYS\$SPECIFIC directories, so that new ones in SYS\$COMMON will be used.

F-WRONGARCH, This product will only install on OpenVMS *platform*.Explanation: You have attempted to install the kit on the wrong platform.User Action: Install the kit on either an Alpha or VAX platform, as indicated by the message, or use a different kit for the current platform.

B.5 Sample VMSINSTAL Installation Session

Example B–1 shows a sample upgrade of the DECprint Supervisor software on an OpenVMS VAX system.

Example B-1 Sample Upgrade on an OpenVMS VAX System

```
$ @SYS$UPDATE:VMSINSTAL DCPSVAX CDROM: OPTIONS N
       OpenVMS VAX Software Product Installation Procedure V7.3
It is 13-JUN-2005 at 12:24.
Enter a question mark (?) at any time for help.
* Are you satisfied with the backup of your system disk [YES]?
The following products will be processed:
 DCPSVAX V2.5
       Beginning installation of DCPSVAX V2.5 at 12:24
%VMSINSTAL-I-RESTORE, Restoring product save set A ...
   Release notes included with this kit are always copied to SYS$HELP.
   Additional Release Notes Options:
       1. Display release notes
       2. Print release notes
       3. Both 1 and 2
       4. None of the above
* Select option [2]: 4
* Do you want to continue the installation [NO]? Y
%VMSINSTAL-I-RELMOVED, Product's release notes have been moved to SYS$HELP.
    _____
    HP DECprint Supervisor (DCPS) for OpenVMS
    V2.5 Installation Procedure
             _____
    © Copyright 1992-2005 Hewlett-Packard Development Company, L.P.
```

Cont'd on next page

Example B-1 (Cont.) Sample Upgrade on an OpenVMS VAX System

Proprietary computer software. Valid license from HP required for possession, use or copying. Consistent with FAR 12.211 and 12.212, Commercial Computer Software, Computer Software Documentation, and Technical Data for Commercial Items are licensed to the U.S. Government under vendor's standard commercial license.

%DCPSVAX-W-QUEACTIVE, The following DCPS queues are still active:

Queue	Device	Status
LN09	DAN::LTA9000:	IDLE
LN17	DAN::"AppleTalk/Dan's LN17+ps"	IDLE
LN40	DAN::"IP RawTCP/ln40:6869"	IDLE

%DCPSVAX-I-NUMQUEUES, 4 existing DCPS queues, with 3 active

Previously installed DCPS queues are still running. Continuing this installation without entering STOP/QUEUE/RESET for each such queue can cause inconsistent behavior among queues and can cause the IVP to fail.

Note that if you choose to have this installation procedure automatically stop such queues, and the installation subsequently aborts, this procedure will not automatically restart them.

* Do you want these queues automatically stopped and restarted [YES]?

* Do you want to purge files replaced by this installation [YES]?

%DCPSVAX-I-LAYUPDEF, DCPS\$LAYUP is already defined -DCPSVAX-I-LAYUPDEF, This installation will use its value %VMSINSTAL-I-SYSDIR, This product creates system disk directory VMI\$ROOT: [SYSTEST.DCPS]. %CREATE-I-EXISTS, VMI\$ROOT: [SYSTEST.DCPS] already exists %VMSINSTAL-I-SYSDIR, This product creates system disk directory VMI\$ROOT: [SYSHLP.EXAMPLES.DCPS]. %CREATE-I-EXISTS, VMI\$ROOT: [SYSHLP.EXAMPLES.DCPS] already exists %DCPSVAX-I-ESTTIME, This installation will take between 1 and 10 minutes, -DCPSVAX-I-ESTTIME, excluding time needed to stop and restart active queues. %DCPSVAX-I-STOPQUEST, No further questions will be asked. %DCPSVAX-I-STOPQUEUES, Stopping queues previously reported as active. %VMSINSTAL-I-RESTORE, Restoring product save set B ... %VMSINSTAL-I-RESTORE, Restoring product save set C ...

Software installer:

Cont'd on next page

Example B-1 (Cont.) Sample Upgrade on an OpenVMS VAX System

Starting with DCPS V2.0, the need for DCPS-OPEN and DCPS-PLUS licenses has been eliminated. The right to use all features of DCPS is now included with the OpenVMS operating system license.

Please remember to copy SYS\$STARTUP:DCPS\$STARTUP.TEMPLATE to SYS\$STARTUP:DCPS\$STARTUP.COM. Then edit the resulting copy, following the instructions contained within it, to define your DCPS environment and queue characteristics. When done, execute the file to establish and start the DCPS queues. Also remember to edit SYS\$MANAGER:SYSTARTUP_VMS.COM so that DCPS\$STARTUP.COM is automatically run at system startup time.

DCPS\$STARTUP.COM should be executed after all printer devices and interconnects are running. Below is a summary list:

printers via TCP/IP:	after TCP is started
printers via LAT:	after LAT devices are created
printers via AppleTalk:	after the AppleTalk driver is loaded
PrintServers via DECnet:	after DECnet is started

If you are converting CPS queues to DCPS, you may want to run the utility SYS\$STARTUP:CPS_TO_DCPS_STARTUP.COM instead of editing the startup template. This utility will read your CPS startup file, change the queue definitions to use DCPS\$SMB and its library and logical names, and write out a new DCPS startup file.

%VMSINSTAL-I-MOVEFILES, Files will now be moved to their target directories... %DCPS-I-IVP, Beginning IVP...

HP DECprint Supervisor (DCPS) for OpenVMS V2.5 Installation Procedure

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IVP using Version V2.5 of DECprint Supervisor

Job DCPS\$IVP_POST (queue DCPS\$IVP_TEST, entry 43) started on DCPS\$IVP_TEST %DCPS-I-JOBSTART, Job DCPS\$IVP_POST (queue DCPS\$IVP_TEST, entry 43) started on DCPS\$IVP TEST

Cont'd on next page

Example B-1 (Cont.) Sample Upgrade on an OpenVMS VAX System

Job DCPS\$IVP POST (queue DCPS\$IVP TEST, entry 43) completed Job DCPS\$IVP ANSI (queue DCPS\$IVP TEST, entry 44) started on DCPS\$IVP TEST %DCPS-I-JOBSTART, Job DCPS\$IVP ANSI (queue DCPS\$IVP TEST, entry 44) started on DCPS\$IVP_TEST Job DCPS\$IVP ANSI (queue DCPS\$IVP_TEST, entry 44) completed Job DCPS\$IVP_REGIS (queue DCPS\$IVP_TEST, entry 45) started on DCPS\$IVP_TEST %DCPS-I-JOBSTART, Job DCPS\$IVP REGIS (queue DCPS\$IVP TEST, entry 45) started on DCPS\$IVP TEST Job DCPS\$IVP REGIS (queue DCPS\$IVP TEST, entry 45) completed Job DCPS\$IVP_TEK4014 (queue DCPS\$IVP_TEST, entry 46) started on DCPS\$IVP_TEST %DCPS-I-JOBSTART, Job DCPS\$IVP_TEK4014 (queue DCPS\$IVP_TEST, entry 46) started on DCPS\$IVP TEST Job DCPS\$IVP TEK4014 (queue DCPS\$IVP TEST, entry 46) completed Job DCPS\$IVP PCL (queue DCPS\$IVP TEST, entry 47) started on DCPS\$IVP TEST %DCPS-I-JOBSTART, Job DCPS\$IVP PCL (queue DCPS\$IVP TEST, entry 47) started on DCPS\$IVP TEST Job DCPS\$IVP PCL (queue DCPS\$IVP_TEST, entry 47) completed Job DCPS\$IVP_PROPRINTER (queue DCPS\$IVP_TEST, entry 48) started on DCPS\$IVP_TEST %DCPS-I-JOBSTART, Job DCPS\$IVP PROPRINTER (queue DCPS\$IVP TEST, entry 48) started on DCPS\$IVP TEST Job DCPS\$IVP PROPRINTER (queue DCPS\$IVP TEST, entry 48) completed Job DCPS\$IVP LIST (queue DCPS\$IVP TEST, entry 49) started on DCPS\$IVP TEST %DCPS-I-JOBSTART, Job DCPS\$IVP LIST (queue DCPS\$IVP TEST, entry 49) started on DCPS\$IVP TEST Job DCPS\$IVP LIST (queue DCPS\$IVP TEST, entry 49) completed IVP successful for DECprint Supervisor V2.5 %DCPSVAX-I-STARTQUEUES, Restarting queues previously reported as active. Installation of DCPSVAX V2.5 completed at 12:27

VMSINSTAL procedure done at 12:27

C Files Installed by DCPS

Table C–1 lists the files installed by DCPS on your system. Unless noted in the "Architecture" column, all files are installed on all architectures (Alpha, I64 and VAX).

Directory	File	Architecture
DCPS\$LAYUP:	COLOR-PRINTER-FULL-PAGE.LUP	
	COLORWRITER-2000-FULL-PAGE.LUP	
	FULL-A4-LANDSCAPE.LUP	
	LPS\$DOUBLEHOLES.LUP	
	LPS\$HOLES.LUP	
	LPS\$NUP.LUP	
	LPS\$SINGLEHOLES.LUP	
	PROPRINTER-FULL-PAGE.LUP	
[SYS\$STARTUP]	CPS_TO_DCPS_STARTUP.COM	
	DCPS\$EXECUTION_QUEUE.COM	
	DCPS\$GENERIC_QUEUE.COM	
	DCPS\$GET_VERSION.COM	
	DCPS\$REQUIRED.COM	
	DCPS\$STARTUP.TEMPLATE	
[SYSEXE]	DCPS\$SMB.EXE	
[SYSHLP.EXAMPLES.DCPS]	CONFIDENTIAL.PS	
	DCPS\$COMMON-PORT-SETTINGS.COM	
	DCPS\$CONFIG-PRINTER-PORT.COM	
	DCPS\$DELETE-LPS-CLIENT.COM	VAX

Table C–1 Files Installed by DCPS

Directory	File	Architecture
	DCPS\$DS100-PORT-SETTINGS.COM	
	DCPS\$DS200-PORT-SETTINGS.COM	
	DCPS\$DS500-PORT-SETTINGS.COM	
	DCPS\$GET-DS100-PORT-GROUPS.COM	
	DCPS\$SAVE-DS500-PORT.COM	
	DCPS\$SET-DS-GROUPS.COM	
	DCPS\$SET-DS100-GROUPS.COM	
	DCW1000_CONFIG.PS	
	DCW1000_DEVPARAM.PS	
	DCW1000_NOSTRTPG.PS	
	DCW1000_PRNTCNFG.PS	
	DCW1000_PSCRIPT.PS	
	DCW1000_STARTPG.PS	
	DL3500_SEND_FAX_PS.PS	
	DL3500_SEND_FAX_PS_SENDPS.PS	
	DL3500_SEND_FAX_TEXT.PS	
	DL3500_SEND_FAX_TEXT_SENDPS.PS	
	FAX_3500_PRINTME.PS	
	FONT_DOWNLOADER.COM	
	IGNORE-A-SIZE.PS	
	INSTALL-PS-SUPPLEMENT.COM	
	LPS\$SET_PRINTER_NAME.PS	
	LPS\$SET_TIMEOUT.PS	
	LPS\$STATUSDICT.PS	
	LPS_ANSI_PROLOGUE.PS	
	NETPRINT.TXT	
	NETPRINT.ZIP	
	PS_SUPPLEMENT.PS	
	UNSOLICITED-PJL-FIX.COM	

Table C–1 (Cont.) Files Installed by DCPS

Directory	File	Architecture
	UPDATE-ANSI-PROLOGUE.COM	
[SYSHLP]	DCPS\$HELP.HLP	
	DCPS025.RELEASE_NOTES	
	DCPS025_RELEASE_NOTES.PS	
[SYSLIB]	DCPS\$BE_APPLETALK.EXE	Alpha, VAX
	DCPS\$BE_CPAP.EXE	
	DCPS\$BE_SERIAL.EXE	
	DCPS\$DEVCTL.TLB	
	DCPS\$FILE_EXTENSION_DATA_ TYPE.DAT_DEFAULT	
	DCPS\$SMBSHR.EXE	
	DCPS\$TRNPRC.EXE	
	TRN\$ANSI_PS.EXE	
	TRN\$DDIF_IMAGE.EXE	
	TRN\$DDIF_PS.EXE	
	TRN\$LIST_PS.EXE	
	TRN\$PCL_PS.EXE	
	TRN\$PROPRINTER_PS.EXE	
	TRN\$REGIS_PS.EXE	
	TRN\$TEK4014_PS.EXE	
[SYSMSG]	DCPS\$MSG.EXE	
[SYSTEST.DCPS]	DCPS\$IVP_ANSI.DAT	
	DCPS\$IVP_LIST.DAT	
	DCPS\$IVP_PCL.DAT	
	DCPS\$IVP_POST.DAT	
	DCPS\$IVP_PROPRINTER.DAT	
	DCPS\$IVP_REGIS.DAT	
	DCPS\$IVP_TEK4014.DAT	
[SYSTEST]	DCPS\$IVP.COM	

Table C–1 (Cont.) Files Installed by DCPS

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