# hp DECprint Supervisor (DCPS) for hp OpenVMS

# Software Installation Guide

Order Number: AA–PSVDH–TE

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This guide describes how to install the DECprint Supervisor software.

| | |
|---|---|
| **Revision/Update Information:** | This manual supersedes AA–PSVDG–TE. |
| **Software Version:** | hp DECprint Supervisor (DCPS) for hp OpenVMS, Version 2.2 |
| **Operating System:** | hp OpenVMS Alpha, Version 6.2, 7.2-2, 7.3 or 7.3-1<br>hp OpenVMS VAX, Version 5.5-2, 7.2 or 7.3 |

**Hewlett-Packard Company**
**Palo Alto, California**

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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*
- VMSINSTAL 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.
- Appendix A shows sample installations.
- Appendix B lists messages that can be received while installing the software.
- Appendix C lists available DCPS-related documentation.

## 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. |
| *Software Product Description (SPD 44.15.xx)* | Contains the full list of printers supported by DCPS and additional information about the features and requirements of DCPS V2.2. |

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

`http://www.openvms.compaq.com/`

## Reader's Comments

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

| | |
|---|---|
| Internet | **openvmsdoc@hp.com** |
| Mail | Hewlett-Packard Company<br>OSSG Documentation Group, ZKO3-4/U08<br>110 Spit Brook Road<br>Nashua NH 03062-2698 |

## How to Order Additional Documentation

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

`http://www.openvms.compaq.com/`

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.)<br>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:<br>• Additional optional arguments in a statement have been omitted.<br>• The preceding item or items can be repeated one or more times.<br>• 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 *number*), in command lines (/PRODUCER=*name*) and in command parameters in text (where *dd* 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

DCPS runs on OpenVMS Alpha and OpenVMS VAX systems. The files that are installed on the two systems differ. See the Release Notes for a full list of the files.

**Note**

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.

## 1.1 Operating System Version

DCPS V2.2 is fully supported on currently-supported versions of the OpenVMS operating system:

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

Although DCPS V2.2 will install on systems running OpenVMS Alpha V6.1 or later, or OpenVMS VAX V5.5-2 or later, customers running OpenVMS versions that are not currently supported do so at their own risk.

## 1.2 Disk Space

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

**Table 1–1 Disk Space Requirements**

| Disk space required for . . . | Alpha system | VAX system |
|---|---|---|
| Installation | 7400 blocks | 5900 blocks |
| Permanent use | 6900 blocks | 5500 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 DEC C Run-Time Library

DCPS requires that the DEC 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 and V6.0 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 DCPS CD-ROM starting with V1.6, and is also available on the OpenVMS VAX Software Product Library CD-ROM distributed by HP. 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*.

### 1.3.2 PrintServer Software

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

### 1.3.3 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 protocol, require one of the following:

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

### 1.3.4 AppleTalk Networks

Printers connected to AppleTalk networks can be accessed by the DCPS software, and thus be made available to OpenVMS system users as shared network printers. This printing system configuration requires PATHWORKS for OpenVMS (Macintosh) software.

**Note**

PATHWORKS for OpenVMS (Macintosh) has been retired and is no longer supported.

### 1.3.5 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.

### 1.3.6 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. For example:

- If the executing version of DCPS$SMB.EXE is V1.1A, and all other components are from Version 1.2, then the following error occurs on an OpenVMS VAX V5.5-2 system:

```
$ start/que atk_1152
%%%%%%%%%%  OPCOM  13-FEB-1995 21:38:08.66  %%%%%%%%%%
Message from user QUEUE_MANAGE on DAHLIA
%QMAN-E-SYMDEL, unexpected symbiont process termination

%%%%%%%%%%  OPCOM  13-FEB-1995 21:38:08.67  %%%%%%%%%%
Message from user QUEUE_MANAGE on DAHLIA
-SYSTEM-F-ACCVIO, access violation, reason mask=00,
virtual address=00000000, PC=0001A9B8, PSL=03C00000
```

- If the executing version of DCPS$SMBSHR.EXE is V1.1A, and all other components are from Version 1.2, then the following error occurs on an OpenVMS VAX system:

```
%%%%%%%%%%  OPCOM  13-FEB-1995 21:44:42.40  %%%%%%%%%%
Message from user SYSTEM on DAHLIA
Process SYMBIONT_98: %SMBSHRMISMTCH2, Wrong version of
DCPS$SMBSHR.EXE

%%%%%%%%%%  OPCOM  13-FEB-1995 21:44:42.51  %%%%%%%%%%
Message from user QUEUE_MANAGE on DAHLIA
%QMAN-E-SYMDEL, unexpected symbiont process termination

%%%%%%%%%%  OPCOM  13-FEB-1995 21:44:42.52  %%%%%%%%%%
Message from user QUEUE_MANAGE on DAHLIA
-NONAME-F-NOMSG, Message number 064BE124
```

- If the executing version of DCPS$SMBSHR.EXE is V1.1A, and all other components are from Version 1.2, then the following error occurs on an OpenVMS Alpha system:

```
%%%%%%%%%%  OPCOM   1-FEB-1995 12:20:35.02  %%%%%%%%%%
Message from user QUEUE_MANAGE on DNGBAT
%QMAN-E-SYMDEL, unexpected symbiont process termination

%%%%%%%%%%  OPCOM   1-FEB-1995 12:20:35.03  %%%%%%%%%%
Message from user QUEUE_MANAGE on DNGBAT
-IMGACT-F-SYMVECMIS, shareable image's symbol vector table
mismatch
```

# 2
# Installing the Software

This chapter describes how to install DECprint Supervisor software using the VMSINSTAL utility. If you are not familiar with the VMSINSTAL utility, refer to the *OpenVMS System Manager's Manual*.

## 2.1 Overview

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

1. Review all release notes.
2. Stop each DCPS queue using `STOP/QUEUE/NEXT` or `STOP/QUEUE/RESET` if you have existing DCPS queues and do not want the DCPS installation procedure to automatically stop them, or you have DCPS executables in the SYS$SPECIFIC system areas, or you need to apply OpenVMS or other patches that impact DCPS.
3. Remove any DCPS executables from the SYS$SPECIFIC system areas.
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$STARTUP.COM. The DCPS installation procedure may have restarted DCPS queues that it stopped, if you chose to allow it to do so. If you changed your DCPS environment or DCPS$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 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 Appendix B.

## 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. Sample VMSINSTAL installation scripts are shown in Appendix A.

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, 022 for V2.2).
   - *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 Return 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
    %VMSINSTAL-I-SYSDIR, This product creates system disk directory
         VMI$ROOT:[SYSHLP.EXAMPLES.DCPS.NETPRINT].
    %CREATE-I-EXISTS, VMI$ROOT:[SYSHLP.EXAMPLES.DCPS.NETPRINT] 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.

# A
# Sample Installation Sessions

This appendix shows sample installations of the DECprint Supervisor software on both OpenVMS Alpha and VAX systems, with and without the DCPS software already present on the system.

Example A–1 shows a sample of an initial installation of the DECprint Supervisor software on an OpenVMS Alpha system. Example A–2 shows a sample upgrade of the DECprint Supervisor software on an OpenVMS VAX system.

### Example A–1 Sample Installation on an OpenVMS Alpha System

```
$ @SYS$UPDATE:VMSINSTAL DCPSAXP CDROM: OPTIONS N

        OpenVMS AXP Software Product Installation Procedure V7.3-1

It is 15-JAN-2003 at 23:02.

Enter a question mark (?) at any time for help.

%VMSINSTAL-W-ACTIVE, The following processes are still active:
        ANDERSON
        KAMATH
        SCHULLMAN
* Do you want to continue anyway [NO]? Y
* Are you satisfied with the backup of your system disk [YES]?

The following products will be processed:

  DCPSAXP V2.2

        Beginning installation of DCPSAXP V2.2 at 23:02

%VMSINSTAL-I-RESTORE, Restoring product save set A ...
```

(continued on next page)

**Example A–1 (Cont.) Sample Installation on an OpenVMS Alpha System**

```
    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 hp OpenVMS
     V2.2 Installation Procedure

     ------------------------------------------------------------------
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     license.
     ------------------------------------------------------------------

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

* Full definition for DCPS$LAYUP [SYS$SYSROOT:[SYSHLP.EXAMPLES.DCPS]]:
%VMSINSTAL-I-SYSDIR, This product creates system disk directory
    VMI$ROOT:[SYSTEST.DCPS].
%VMSINSTAL-I-SYSDIR, This product creates system disk directory
    VMI$ROOT:[SYSHLP.EXAMPLES.DCPS].
%DCPSAXP-I-ESTTIME, This installation will take between 1 and 10 minutes.
%DCPSAXP-I-NOQUEST, No further questions will be asked.
%VMSINSTAL-I-RESTORE, Restoring product save set B ...
%VMSINSTAL-I-RESTORE, Restoring product save set C ...

Software installer:

        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.
```

(continued on next page)

**Example A–1 (Cont.) Sample Installation on an OpenVMS Alpha System**

```
        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

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

     ------------------------------------------------------------------
     hp DECprint Supervisor (DCPS) for hp OpenVMS
     V2.2 Installation Procedure

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     license.
     ------------------------------------------------------------------

     IVP using Version V2.2 of DECprint Supervisor

Job DCPS$IVP_POST (queue DCPS$IVP_TEST, entry 104) started on DCPS$IVP_TEST
%DCPS-I-JOBSTART, Job DCPS$IVP_POST (queue DCPS$IVP_TEST, entry 104)
      started on DCPS$IVP_TEST

Job DCPS$IVP_POST (queue DCPS$IVP_TEST, entry 104) completed
Job DCPS$IVP_ANSI (queue DCPS$IVP_TEST, entry 105) started on DCPS$IVP_TEST
%DCPS-I-JOBSTART, Job DCPS$IVP_ANSI (queue DCPS$IVP_TEST, entry 105)
      started on DCPS$IVP_TEST

Job DCPS$IVP_ANSI (queue DCPS$IVP_TEST, entry 105) completed
Job DCPS$IVP_REGIS (queue DCPS$IVP_TEST, entry 106) started on DCPS$IVP_TEST
%DCPS-I-JOBSTART, Job DCPS$IVP_REGIS (queue DCPS$IVP_TEST, entry 106)
      started on DCPS$IVP_TEST
```

(continued on next page)

### Example A–1 (Cont.) Sample Installation on an OpenVMS Alpha System

```
Job DCPS$IVP_REGIS (queue DCPS$IVP_TEST, entry 106) completed
Job DCPS$IVP_TEK4014 (queue DCPS$IVP_TEST, entry 107) started on DCPS$IVP_TEST
%DCPS-I-JOBSTART, Job DCPS$IVP_TEK4014 (queue DCPS$IVP_TEST, entry 107)
      started on DCPS$IVP_TEST

Job DCPS$IVP_TEK4014 (queue DCPS$IVP_TEST, entry 107) completed
Job DCPS$IVP_PCL (queue DCPS$IVP_TEST, entry 108) started on DCPS$IVP_TEST
%DCPS-I-JOBSTART, Job DCPS$IVP_PCL (queue DCPS$IVP_TEST, entry 108)
      started on DCPS$IVP_TEST

Job DCPS$IVP_PCL (queue DCPS$IVP_TEST, entry 108) completed
Job DCPS$IVP_PROPRINTER (queue DCPS$IVP_TEST, entry 109) started on DCPS$IVP_TEST
%DCPS-I-JOBSTART, Job DCPS$IVP_PROPRINTER (queue DCPS$IVP_TEST, entry 109)
      started on DCPS$IVP_TEST

Job DCPS$IVP_PROPRINTER (queue DCPS$IVP_TEST, entry 109) completed
Job DCPS$IVP_LIST (queue DCPS$IVP_TEST, entry 110) started on DCPS$IVP_TEST
%DCPS-I-JOBSTART, Job DCPS$IVP_LIST (queue DCPS$IVP_TEST, entry 110)
      started on DCPS$IVP_TEST

Job DCPS$IVP_LIST (queue DCPS$IVP_TEST, entry 110) completed

     IVP successful for DECprint Supervisor V2.2

        Installation of DCPSAXP V2.2 completed at 23:04

    Adding history entry in VMI$ROOT:[SYSUPD]VMSINSTAL.HISTORY

    Creating installation data file: VMI$ROOT:[SYSUPD]DCPSAXP014.VMI_DATA

        VMSINSTAL procedure done at 23:05

$
```

### Example A–2 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-JAN-2003 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:
```

(continued on next page)

**Example A–2 (Cont.) Sample Upgrade on an OpenVMS VAX System**

```
  DCPSVAX V2.2

        Beginning installation of DCPSVAX V2.2 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 hp OpenVMS
     V2.2 Installation Procedure

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     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.
```

(continued on next page)

**Example A–2 (Cont.) Sample Upgrade on an OpenVMS VAX System**

```
        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-NOQUEST, 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:

        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
```

(continued on next page)

**Example A–2 (Cont.) Sample Upgrade on an OpenVMS VAX System**

```
        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 hp OpenVMS
     V2.2 Installation Procedure

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     ------------------------------------------------------------------

     IVP using Version V2.2 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

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
```

(continued on next page)

**Example A–2 (Cont.) Sample Upgrade on an OpenVMS VAX System**

```
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 V2.2

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

        Installation of DCPSVAX V2.2 completed at 12:27


        VMSINSTAL procedure done at 12:27

$
```

# B
# System Messages

This appendix describes the DECprint Supervisor messages in the following sections:

- Overview of messages, Section B.1
- DCPS Installation Messages, Section B.2

## B.1 System Message Overview

### B.1.1 Message Format

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 |

### B.1.2 Severity Level

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

| Code | Meaning |
|---|---|
| S | Success — successful completion of the request |
| I | Informational — may require user action |
| W | Warning — request may not have completed and may require user action |
| E | Error — system encountered an error that may be recoverable |
| F | Fatal — system encountered a fatal error and cannot continue processing this request |

## B.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 *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 /SYSTEM /EXECUTIVE_MODE 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 *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.

# C
# Ordering Additional Documentation

This appendix lists HP software documents and documentation kits associated with PostScript printers and their order numbers.

## C.1 hp DECprint Supervisor (DCPS) for hp OpenVMS

- Hardcopy documentation (order number: QA-09NAA-GZ)

  *Software Installation Guide*
  *System Manager's Guide*
  *User's Guide*

- CD-ROM documentation and software (order number: QA-09NAB-H8)
  - Software

    HP DECprint Supervisor (DCPS) for HP OpenVMS Alpha V2.2
    HP DECprint Supervisor (DCPS) for HP OpenVMS VAX V2.2

  - Documentation

    *Release Notes*
    *Software Installation Guide*
    *Software Product Description (SPD)*
    *System Manager's Guide*
    *User's Guide*

    Documentation is provided in the following formats:

    Bookreader
    HTML (Hypertext Markup Language)
    PDF (Acrobat Portable Document Format)
    PS (PostScript)
    Text

## C.2 DIGITAL ANSI-Compliant Level 3 Printing Protocol

Documentation (order number: EK-PPLV3-DK)

- *DIGITAL ANSI-Compliant Printing Protocol Level 3 Programming Reference Manual*
  (order number: EK-PPLV3-PM)
- *DIGITAL ANSI-Compliant Printing Protocol Level 3 Programming Supplement*
  (order number: EK-PPLV3-PS)

## C.3 PostScript Programming

The following books are published by Adobe Systems Incorporated and are among numerous books published about the PostScript language.

- *PostScript Language Reference*
- *PostScript Language Tutorial and Cookbook*
- *PostScript Language Program Design*

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