DECpresent

Installation Guide for VMS Systems

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This guide describes how to install DECpresent on a VMS system.

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Contents

Preface v

1 Preparing for DECpresent Installation

1.1 DECpresent Distribution Kit 1
1.2 Prerequisite Software 2
1.3 Prerequisite Hardware 3
1.4 Privileged Account 3
1.5 License Registration 3
1.6 VAXcluster Considerations 4
1.7 System Quotas 4
1.7.1 Disk Space Requirements 4
1.7.2 System Parameter Values 5
1.7.2.1 Checking Parameter Values 6
1.7.2.2 Calculating GBLPAGES and GBLSECTIONS Parameter Values 6
1.7.2.3 Changing Parameter Values with AUTOGEN 6
1.8 System Disk Backup 7
1.9 Displaying DECpresent on Non-VMS Systems 7

2 Installing DECpresent

2.1 Installing the Video Fonts for the Equation Editor and Bullets 9
2.2 VMSINSTAL Requirements 10
2.3 VMSINSTAL Procedure 11

3 DECpresent Postinstallation Procedures

3.1 Editing Startup Files 21
3.1.1 Editing SYSTARTUP_V5.COM 21
3.1.2 Editing PRESENT$STARTUP.COM 22
3.2 Installing DECpresent on a Standalone System 23
3.3 Installing DECpresent on a VAXcluster 23
3.4 Rebooting the System 24
3.5 User Account Requirements 24
3.5.1 Privileges 24
3.5.2 User Account Quotas 24
3.6 Tuning Your System 26
3.7 Selecting a Language 26
3.8 Installation Verification Procedures 26
3.9 Using the Font Utility 27
3.9.1 Preparing to Run the Font Utility 27
3.9.2 Font Utility Startup 27
3.9.3 Font Utility Commands and Descriptions 28
3.10 Files Copied During Installation 30
3.11 Running DECpresent from FileView 31
3.12 Running DECpresent from DCL 31
3.13 Determining and Reporting Problems 31

A Sample DECpresent Installation

A.1 Full DECpresent Installation 33
A.2 Video Font Only DECpresent Installation 37

Index

Figures

2–1 Successful Installation Display 19

Tables

1–1	Free Disk Blocks Required to Install DECpresent	5
1–2	Minimum Required Global Pages and Sections	5
2–1	DECpresent Kit Names	11
3–1	Language Parameters	22
3–2	User Account Quotas	25
3–3	Font Utility Commands	28

Preface

Purpose of This Guide

This guide describes how to install DECpresent on the VMS operating system. You should review the entire guide before you start the installation.

Who Should Use This Guide

This guide is for VMS system managers or others responsible for installing system software. To install DECpresent software, you must have access to a privileged account such as the SYSTEM account, and you must be familiar with the VMS installation procedure (VMSINSTAL).

Structure of This Guide

The guide has three chapters and two appendixes. Chapter 1 describes installation prerequisites and suggestions. Chapter 2 describes the installation procedure. Chapter 3 describes postinstallation tuning and general usage information. Appendix A shows a sample installation procedure for reference purposes.

For More Information

For more information on the VMSINSTAL command, see one of the following books:

- *VMS System Manager's Manual* (VMS Version 5.3 base documentation set)
- *Guide to Setting Up a VMS System* (VMS Version 5.3 full documentation set)

Refer to the *DECpresent User's Guide* or the online DECpresent Learn Modules for more information about DECpresent. Display the Learn Modules by choosing one of the topics from the DECpresent Learn menu.

Conventions

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.
Delete	A key name is shown enclosed to indicate that you press a key on the keyboard.
blue-green ink	For hardcopy books, blue-green ink indicates information that you must enter from the keyboard or a screen object that you must choose or click on. For online versions, user input is shown in **bold**.
italic text	Italic text represents information that can vary in system messages (for example, Internal error *number*).
UPPERCASE TEXT	Uppercase letters indicate that you must enter a command (for example, enter OPEN/READ) or a response to system prompt. Uppercase letters also indicate the name of a routine, the name of a file, the name of a file protection code, or the abbreviation for a system privilege.
DECpresent	The term DECpresent refers to the DECpresent™ software.
DECchart	The term DECchart refers to the DECchart™ software.

1

Preparing for DECpresent Installation

This chapter describes tasks you must perform when installing DECpresent, and suggests how to prepare for installation.

Installing DECpresent is similar to installing other VMS layered products. You should:

1. Take an inventory of the software distribution kit.
2. Make sure your system has the prerequisite software and hardware.
3. Register your DECpresent license according to the VMS License Registration section in this chapter.
4. Prepare your system and its users for installation.
5. Print and read the release notes.
6. Perform the installation procedure and any necessary postinstallation procedures.
7. Resume normal operations after you complete the installation.

You should allow approximately 70 minutes for the installation and 10 minutes to run the Installation Verification Procedure (IVP).

1.1 DECpresent Distribution Kit

Each DECpresent distribution kit contains:

- A bill of materials (BOM) and indented bills report (BIL)
- The distribution medium for the DECpresent software
- Documentation for the product

  Media-only kits include the installation guide only.
- The Product Authorization Key (PAK)

To ensure that you have a complete kit, check the kit contents against the bill of materials and the indented bills report.

If your kit is damaged or if you find that parts of it are missing, contact your Digital representative.

1.2 Prerequisite Software

To install DECpresent you must have:

- A valid VMS operating system configuration running VMS Version 5.3 or higher, having the VMS Required saveset
- DECwindows installed

  To execute the IVP during the installation, DECwindows should also be running.

Since DECpresent is a DECwindows application, it can run in either of the following ways:

- Standalone execution — running the DECwindows X11 display server and the client application on the same machine
- Remote execution — running the DECwindows X11 display server and the client application on different machines

  This requires that DECnet also be installed.

For standalone execution, the following DECwindows components must be installed on the machine:

- VMS DECwindows Compute Server (base kit, which includes run-time support)
- VMS DECwindows Device Support

For remote execution, the following DECwindows components must be installed:

On the workstation:

- VMS DECwindows Compute Server (base kit, which includes run-time support)
- VMS DECwindows Device Support

On the remote machine:

- VMS DECwindows Compute Server (base kit, which includes run-time support)
- VMS DECwindows Device Support (optional)

  Refer to the VMS Version 5.3 Installation Guide for details.

1.3 Prerequisite Hardware

DECpresent supports all hardware configurations supported by a VMS Version 5.3 system running DECwindows, with a minimum of 8 MB of memory. See the DECpresent Software Product Description (SPD) for details on supported hardware configurations.

1.4 Privileged Account

To install DECpresent, you must be logged into an account that has the following privileges:

- CMKRNL
- WORLD
- SYSPRV

Most system managers install software from the SYSTEM account.

Note that the VMSINSTAL command turns off BYPASS privilege at the start of the installation.

1.5 License Registration

The DECpresent Product Authorization Key (PAK) should be registered and loaded before you install or use DECpresent. The information you need is in the PAK shipped with DECpresent. The PAK is a paper certificate that contains data about your license.

If you do not register and load the license before installing DECpresent, the installation will complete but the Installation Verification Procedure (IVP) will not run. You can execute the IVP manually after the installation by following the instructions in Chapter 2.

To register the license, first log in to a privileged account such as the system manager's account, SYSTEM. Then choose one of the following procedures to perform the registration. The second method is faster for experienced users.

- Invoke the SYS$UPDATE:VMSLICENSE.COM procedure. When prompted for information, respond with data from your Product Authorization Key (PAK).

  OR

- Issue the DCL commands LICENSE REGISTER and LICENSE LOAD with the appropriate qualifiers that correspond to information on the PAK.

For additional information, see the License Management Facility section in your VMS Version 5.3 documentation set.

1.6 VAXcluster Considerations

You can install DECpresent on a VAXcluster.

In a VAXcluster with a common system disk, you can execute the installation procedure on a single member of the cluster. After the installation is completed, each VAX processor can share the same DECpresent software.

You must check the number of global sections and global pages on each node in the VAXcluster where you plan to install DECpresent. Instructions for checking these values are in the next section.

See Chapter 3 for details about VAXcluster postinstallation instructions.

1.7 System Quotas

You use the VMSINSTAL command to install DECpresent. For VMSINSTAL to run properly, there must be sufficient disk storage space and proper system parameter settings to accommodate the installation. This section describes the recommended disk space and system parameters.

1.7.1 Disk Space Requirements

Installing DECpresent requires a certain amount of disk storage space. Once the installation is complete, less storage space is required. Table 1–1 summarizes the storage requirements.

DECpresent includes DECchart Version 1.1, the Equation Editor, and the CDA Library Version 1.1. The installation procedure checks to see if these bundled applications are already installed on your system. DECpresent does not install these parts of the kit if they already exist on your system. As a result, the disk space required for installation may be less than the amount shown in Table 1–1.

The VMSINSTAL command now has an Alternate Working Directory (AWD) option. This option directs VMSINSTAL to create its temporary files in a directory you specify. This allows you to temporarily use space on another disk if your system disk space is limited. If you do not have the recommended disk space available, try installing using the AWD option.

Table 1–1 Free Disk Blocks Required to Install DECpresent

Installation	During Installation[1]	After Installation[1]
Complete	35,000	34,500
Font Only	1,500	1,000

[1]These values are approximate, but are the maximum that the installation will require. The installation procedure reports the actual number of blocks required, which will be slightly less than these values, and may differ from the sample installation in Chapter 2.

Note

These values apply only to the US variant. Please see the cover letter for the values for all other language variants.

Use the DCL command SHOW DEVICE to determine the number of free blocks that are presently available on the system disk:

```
$  SHOW DEVICE SYS$SYSDEVICE
```

If the disk does not have enough free blocks, delete unnecessary files to provide space.

1.7.2 System Parameter Values

Digital recommends that the system parameter WSMAX be set to at least 4,100. On a single-user workstation, it can be set even higher, depending on the amount of workstation memory.

The DECpresent executable images and the shared libraries can be installed using the INSTALL utility. Table 1–2 lists the minimum required system parameter values.

Table 1–2 Minimum Required Global Pages and Sections

System Parameter	Minimum Value
GBLPAGES	4,108
GBLSECTIONS	13

If GBLPAGES or GBLSECTIONS are below the recommended values, VMSINSTAL displays a message. Since installing the DECpresent images and shared libraries is optional, you can safely continue the

installation. Make sure to adjust these system parameters before modifying PRESENT$STARTUP.COM. See Chapter 3 for details.

1.7.2.1 Checking Parameter Values

To check the value of one or more parameters, enter the following command at the DCL prompt:

```
$  RUN SYS$SYSTEM:SYSGEN
SYSGEN>
```

At the SYSGEN> prompt, use the SHOW command to display the value of each system parameter.

After you finish checking parameter values, use the EXIT command to return to DCL level.

1.7.2.2 Calculating GBLPAGES and GBLSECTIONS Parameter Values

The values for GBLPAGES and GBLSECTIONS in Table 1–2 indicate that you must have at least 4,108 unused global pages and 13 unused global sections available for the installation.

To calculate the number of unused global pages and global sections in your system:

1. Use the DCL F$GETSYI lexical function to determine the number of free global pages and global sections:

   ```
   $  WRITE SYS$OUTPUT F$GETSYI("FREE_GBLPAGES")
   $  WRITE SYS$OUTPUT F$GETSYI("FREE_GBLSECTS")
   ```

2. If the number of unused global pages is less than the number specified in Table 1–2, you must increase the value using the AUTOGEN command procedure (instructions follow).

The next section describes the procedures for changing these values. For more information, refer to the VMS system management documentation.

1.7.2.3 Changing Parameter Values with AUTOGEN

You use the AUTOGEN command procedure to change system parameters. AUTOGEN automatically adjusts values for parameters that need to be changed.

To change system parameters with AUTOGEN:

1. Edit the SYS$SYSTEM:MODPARAMS.DAT file:

   For example, to increase the setting for the GBLPAGES system parameter by 2,000, add this line to the file:

   ```
   ADD_GBLPAGES = 2000
   ```

2. Enter the following command to recalculate your system parameters:

```
$ @SYS$UPDATE:AUTOGEN GETDATA REBOOT
```

AUTOGEN performs an automatic system shutdown and reboots when it has finished. Rebooting your system makes the new parameter values active.

For more information about using AUTOGEN, see the instructions on modifying system parameters in the VMS system management documentation.

1.8 System Disk Backup

Make a backup copy of your system disk before you install DECpresent.

For more information about backing up your system disk, refer to the VMS system management documentation.

1.9 Displaying DECpresent on Non-VMS Systems

If you plan to display DECpresent on non-VMS workstations, you must first compile and install the required video fonts on the display workstations.

For example, suppose you install DECpresent on an VAX/VMS workstation. If you attempt to display that software on an VAX/ULTRIX workstation, you will receive font display errors.

For information about compiling and installing the video fonts on remote display devices, refer to the DECpresent Release Notes, which are copied to the following directory during the DECpresent installation:

```
SYS$COMMON:[SYSHLP]PRESENT010.RELEASE_NOTES
```

You can obtain additional information on compiling fonts by typing the following command at the DCL prompt:

```
$ HELP FONT
```

2
Installing DECpresent

This chapter describes how to run the DECpresent installation procedure. You should allow approximately 80 minutes to complete the entire installation. Before you start installing DECpresent, make sure your system meets the requirements outlined in Chapter 1.

This version of DECpresent supports language switching. If you have purchased language variants of DECpresent, you can install multiple language variants on a single system. You choose which langage variant to use by selecting the language from the Session Manager Language dialog box before you start DECpresent. See Table 2–1 for a list of the language variant kits.

Appendix A contains a printout of a typical installation procedure for your reference.

2.1 Installing the Video Fonts for the Equation Editor and Bullets

Like other DECwindows software products, you can install DECpresent on one DECwindows system and display it on another. However, the system that displays DECpresent must have access to the DECpresent video fonts.

You can install the entire DECpresent kit or just the video fonts. The video fonts are required for displaying the Equation Editor and for the Bullets dialog box on a remote workstation. The Equation Editor allows users to create complex mathematical equations and include them in their presentations. The Bullets dialog box allows you to choose alternate characters for the bullets on your slides.

If you are installing DECpresent on a VAXcluster, install the entire kit. Restart the DECwindows server on each of the satellite workstations so they can have access to the video fonts. You do not need to install the video fonts on the satellites in a VAXcluster if the entire kit is installed on the VAXcluster boot node. See Chapter 3 for more information.

However, if you plan to display DECpresent on a remote workstation, one that is not part of the VAXcluster, you must install the video fonts on the workstation.

Similarly, if a standalone workstation user, not running DECpresent, wants to use either DECwindows Mail or the CDA viewer to view documents containing equations and alternate bullets, then the video fonts must be installed on that workstation.

And finally, users who wish to display DECpresent on a personal computer must also install the video fonts for the Equation Editor and slide bullets. See your PC documentation for the procedures you need to install the fonts on the PC. For the location of the video font files on your workstation, see Section 3.10.

2.2 VMSINSTAL Requirements

When you invoke the VMSINSTAL command, it checks:

- Whether you are logged in to a privileged account
- Whether you have adequate quotas for installation
- Whether DECnet is up and running
- Whether any users are logged in to the system

If VMSINSTAL detects a problem during the installation procedure, it notifies you and asks if you want to continue. To stop the installation and correct the problem, enter NO or press the Return key. After you have made the correction, you can restart the installation.

To abort the installation procedure at any time, press Ctrl/Y. The installation procedure deletes all files it has created up to that point and exits. You can then restart the installation.

Digital recommends that you refer to the section on the VMSINSTAL command in your VMS documentation set. In the VMS base documentation set, see the *VMS System Manager's Manual*. In the VMS full documentation set, see the *Guide to Setting Up a VMS System*.

2.3 VMSINSTAL Procedure

You must use the VMSINSTAL command procedure to install DECpresent. Follow these steps to begin the installation:

1. Log in to a privileged account such as the VMS system manager's account, SYSTEM.
2. If a previous version of DECpresent has been installed on your system, send a message requesting that all users exit from DECpresent.
3. Make sure DECwindows is running. If you have not previously executed the SYS$STARTUP:DECW$STARTUP.COM command procedure, do so at this time.
4. Enter the following command line to run VMSINSTAL:

   ```
   $ @SYS$UPDATE:VMSINSTAL PRESENT010 device-name OPTIONS N
   ```

   where device-name is the device specification for the distribution medium, for example, MUA0: and where kit-name is the language variant DECpresent kit. If you have purchased one or more language variants, Table 2–1 lists their DECpresent kit names.

Table 2–1 DECpresent Kit Names

Language Variant	Kit Name
American English	DECPRESENT
Dutch	DECPRESENTNE
French	DECPRESENTFR
Belgian French	DECPRESENTFR
Canadian French	DECPRESENTFR
Swiss French	DECPRESENTFR
German	DECPRESENTDE
Swiss German	DECPRESENTDE
Italian	DECPRESENTIT
Swiss Italian	DECPRESENTIT
Swedish	DECPRESENTSV

Specifying OPTIONS N indicates that you want to be prompted to display or print the Release Notes.

Specifying OPTIONS AWD=*device:directory* allows you to specify an alternate device that VMSINSTAL will use as the temporary working directory.

Caution

If the *device:directory* specified in the AWD option already exists, the installation procedure will delete it and create it again.

If you do not specify the AWD option, the installation creates the temporary working directory on the system disk by default.

VMSINSTAL has several other options, described in the VMS software installation documentation.

A message similar to the following appears on your screen:

```
        VAX/VMS Software Product Installation Procedure V5.3

It is 20-SEP-1990 at 15:22.

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

Your DECnet network is up and running.
%VMSINSTAL-W-ACTIVE, The following processes are still active:
 L
 M
 N
 O
 P
* Do you want to continue anyway [NO]?
```

DECwindows requires that DECnet be up and running.

5. Enter YES to continue the installation.

   You are asked whether you need to back up your system disk:

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

   Generally, you should back up your system disk before any major software installation, as you were instructed in Chapter 1. YES is the default answer. If you backed up your system disk recently, press the Return key to continue.

   Next, you receive instructions to mount the distribution medium you specified when you invoked VMSINSTAL (in this example, MUA0:). If you did not specify where you would mount the distribution volumes the system prompts you to identify where you have mounted them.

   ```
   Please mount the first volume of the set on MUA0:.
   * Are you ready?
   ```

6. Mount the medium, then enter YES to indicate that you are ready to continue.

The following messages appear on your screen:

```
The following products will be processed:

  PRESENT V1.0

        Beginning installation of DECPRESENT V1.0 at 15:22

%VMSINSTAL-I-RESTORE, Restoring product saveset A ...
```

If you selected OPTIONS N when you first invoked the VMSINSTAL procedure, a menu asks you how you want to handle the Release Notes:

```
Release Notes Options:

        1.  Display release notes
        2.  Print release notes
        3.  Both 1 and 2
        4.  Copy release notes to SYS$HELP
        5.  Do not display, print or copy release notes

* Select option [2]:
```

You should review the Release Notes in case they contain any information about changes in the installation procedures. Choosing option 3 displays the Release Notes and prints a copy.

If you do choose an option that prints the Release Notes, you are prompted for a print queue:

```
* Queue name [SYS$PRINT]:
```

7. Press the Return key to print the Release Notes on SYS$PRINT, or type a different queue name and press Return.

   The screen displays a message similar to the following:

   ```
   Job 810 (queue SYS$PRINT, entry 1295) started on SYS$PRINT
   ```

   You are asked whether you want to continue with the installation:

   ```
   * Do you want to continue the installation?
   ```

8. Enter YES to continue, otherwise press the Return key.

   In either case, the Release Notes are copied to a file in the SYS$HELP directory and you receive a message similar to the following:

   ```
   %VMSINSTAL-I-RELMOVED, The product's release notes have been
   successfully moved to SYS$HELP.
   ```

   The Release Notes are contained in SYS$HELP: and have the name PRESENT010.RELEASE_NOTES.

   Note that the name of the Release Notes file includes the product name and version number.

   Do not delete Release Notes for previous versions of DECpresent.

The screen displays the following messages:

```
                DECpresent V1.0 Installation Procedure

    International Hyphenators and International CorrectSpell (TM)
    Copyright (c) 1985, 1987, 1988 by Houghton Mifflin.  All rights
    reserved. US Pat. Nos. 4,508,241, 4,730,269, and 4,771,401.
    Canadian Pat. No. 1,203,916.

    Portions licensed to Digital Equipment Corporation, Maynard,
    Massachusetts Copyright (c) Frame Technology Corporation 1989.
    All rights reserved.

%VMSINSTAL-I-RESTORE, Restoring product save set B ...
%VMSINSTAL-I-RESTORE, Restoring product save set C ...

     You can install the DECpresent kit completely or just the video
     fonts required to create equations and bullets.

     If you are installing this kit for use on a workstation, or on a
     VAXcluster that includes workstations, then you should install
     the entire kit. This requires 33935 blocks.

     If you are installing this kit on a workstation that will only run
     DECpresent from a remote system, then only the video font files
     are needed. This requires 1518 blocks.
```

If you are installing DECpresent on a VAXcluster that includes workstations, you should install the entire kit. Workstations that will run DECpresent from a remote system require only that the video fonts be installed locally. See Section 2.1 for more information.

You receive information about the number of blocks required to install the entire kit or only the video font files. You are then asked if you want to install the entire kit:

```
* Do you want to install the entire kit [YES]?
```

This procedure assumes you are installing the kit on a standalone system or VAXcluster and that you will be installing the entire kit. See Appendix A for a sample printout of how the installation appears if you install only the video fonts.

9. Press the Return key.

   The installation procedure will then check to see what version of DECchart is installed on your system. Depending on what version of DECchart is installed, the installation procedure will either install a newer version or leave the current version on your system.

   For example, if DECchart has not been installed on your system, the installation procedure will display the appropriate message.

```
This kit requires DECchart V1.1 or later.

************************************************************

DECchart V1.1 will be installed since it does
not exist on your system.

************************************************************
```

The installation procedure then checks whether the Equation Editor has been installed on your system. If the Equation Editor has not been installed, the installation procedure will install it automatically.

For example, if the Equation Editor has not been installed on your system, the installation procedure will display the appropriate message.

```
This kit requires the Equation Editor V1.1-1 or later.

The Equation Editor V1.1-1 will be installed
since it does not exist on your system.
```

The system proceeds to the next step, which is to install the spell check lexicon directories, if the lexicons have not already been installed on your system.

```
The DECpresent spell check lexicons will be installed in the directory
SYS$SYSDEVICE:[LCI.LEXICONS] by default. You may optionally install the
files on a device other than the system disk.

* Please specify a device on which to install the spell check lexicons
[SYS$SYSDEVICE:]:
```

10. Press the Return key to install the lexicons on the default device.

    The procedure then checks to be sure the product authorization key has been installed.

```
Checking/registering INTL-LEXICON-AMERICAN Product Authorization Key...

   Product:      PRESENT-V
   Producer:     DEC
   Version:      1.0
   Release Date: 1-DEC-1990

* Does this product have an authorization key registered and loaded?
```

11. If your authorization key is registered and loaded, enter YES.

    If you answer YES, you are then asked whether you want to run the Installation Verification Procedure (IVP). The IVP is a small presentation that is opened by DECpresent to be sure the installation is complete. The system may ask you where to display the IVP. Enter the name of a working DECwindows workstation on your network if you receive such a prompt.

If you answer NO, the screen displays the following messages:

```
%VMSINSTAL-W-NOIVP, The IVP will not be run since the DECpresent license
-VMSINSTAL-W-NOIVP, is not installed.

     You must register and load the license in order to use DECpresent

     We recommend that you execute the IVP after you complete this
     installation.  The IVP consists of several separate command
     procedures.  Execute them as follows:

          @sys$test:present$ivp          ! DECpresent
          @sys$test:chart$ivp            ! DECchart
          @sys$test:lae$ivp              ! American-English lexicon

     Installation continuing...
```

You are asked whether you want to purge (delete) old versions of files replaced by this installation:

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

Purging is recommended.

12. Press the Return key to purge old versions of the files. To save old files, or if you are installing DECpresent for the first time, enter NO.

    The installation procedure then displays information about the DECpresent clipart directories. The clipart directories store the graphics that are displayed in the DECpresent Art Gallery dialog box.

    ```
    * Please a specify location for the clipart directories
    [SYS$SYSDEVICE:[CLIPART]]:
    ```

13. Press the Return key to create the default directory, or enter a new directory name.

    The screen displays the following message:

    ```
         You have chosen the clipart directory SYS$SYSDEVICE:[CLIPART]
    * Is this correct [YES]?
    ```

14. Press the Return key.

    The screen displays the following messages:

    ```
        To complete the installation on a standalone VAX 11/780
        will take approximately:

            1 hour and 10 minutes to install
            10 minutes to run the IVP

        All required questions have been asked.
        You can terminate the installation procedure at this time.

    * Do you want to continue the installation [YES]?
    ```

15. Press the Return key to continue the installation.

    The screen displays the following messages:

```
%VMSINSTAL-I-RESTORE, Restoring product save set D ...
%VMSINSTAL-I-RESTORE, Restoring product save set E ...
%VMSINSTAL-I-RESTORE, Restoring product save set F ...
%VMSINSTAL-I-RESTORE, Restoring product save set G ...
%VMSINSTAL-I-RESTORE, Restoring product save set H ...
%VMSINSTAL-I-RESTORE, Restoring product save set I ...
%VMSINSTAL-I-RESTORE, Restoring product save set J ...
%VMSINSTAL-I-RESTORE, Restoring product save set K ...
%VMSINSTAL-I-RESTORE, Restoring product save set L ...
%VMSINSTAL-I-SYSDIR, This product creates system disk directory
VMI$ROOT:[SYSHLP.PRESENT].
%VMSINSTAL-I-SYSDIR, This product creates system disk directory
VMI$ROOT:[SYSHLP.EXAMPLES.PRESENT].
%VMSINSTAL-I-SYSDIR, This product creates system disk directory
VMI$ROOT:[SYSTEST.PRESENT].
Providing font files...
Providing equation editor files...
Providing DECpaint files...
Providing clip art files...
Providing lexicon files...
Providing core DECpresent files...
Providing font definition file...
Providing shareable library files...
%VMSINSTAL-I-SYSDIR, This product creates system disk directory
VMI$ROOT:[SYSTEST.CHART$IVP].
%VMSINSTAL-I-SYSDIR, This product creates system disk directory
VMI$ROOT:[SYSHLP.EXAMPLES.DECCHART].
%VMSINSTAL-I-SYSDIR, This product creates system disk directory
VMI$ROOT:[SYSTEST.CDACVTLIB].

     The following commands must be added to the system startup
     command file SYS$MANAGER:SYSTARTUP_V5.COM for all nodes that will
     be running DECpresent:

          @sys$startup:present$startup
          @sys$startup:lci$startup.com     !American-English lexicon

     If you are installing this kit on a workstation, you should
     restart DECwindows after the installation has completed:

          @sys$startup:decw$startup restart


     You must now restart the DECwindows server on each workstation
     that will use DECpresent.
     If you don't do this, the workstation user will not be able to
     use the new Equation Editor and Bullet fonts.
     To do this, log in to each workstation in a privileged account
     and type
          @sys$startup:decw$startup.com restart

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

    The installation procedure checks the system for previously installed products. It does this to avoid reinstalling earlier versions of products such as DECchart, which are bundled with DECpresent.

For example, if the installation procedure determines that the version of DECchart currently installed on the system is a newer version than the one in the DECpresent kit, DECchart will not be installed. The savesets for DECchart need not be restored; therefore, the ''%VMSINSTAL-I-RESTORE, Restoring product saveset X'' messages and the amount of disk space required will vary depending on previously installed layered products.

The installation then executes the IVPs.

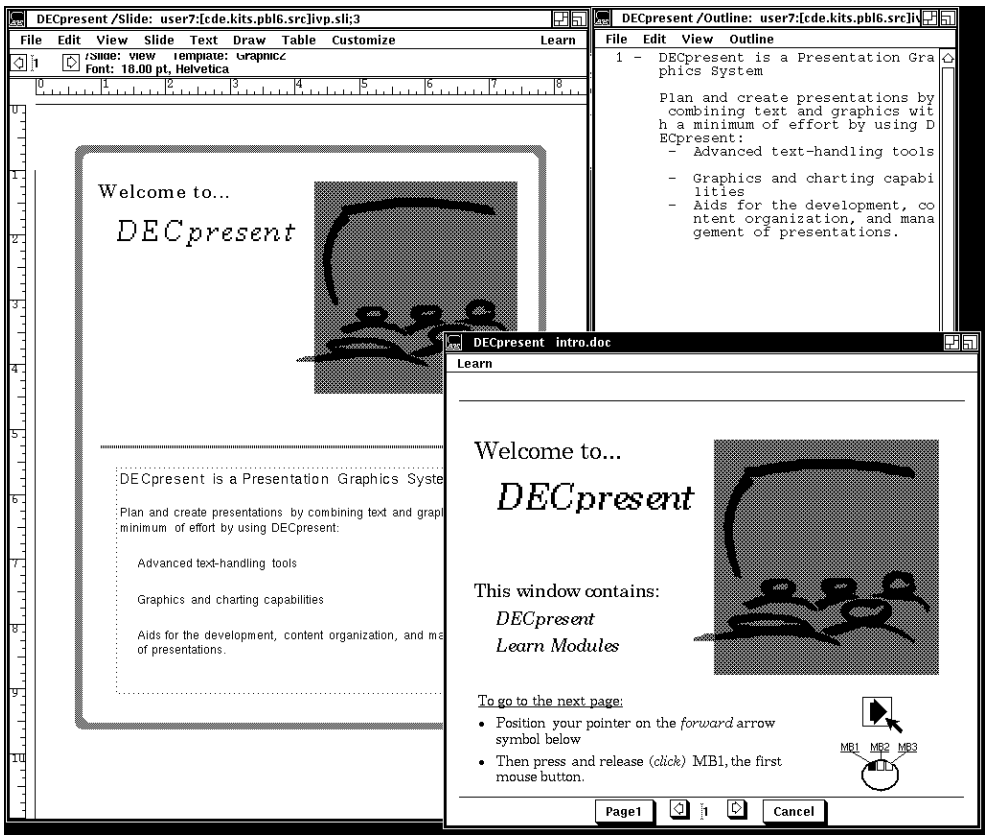
```
Executing IVP for: DECpresent V1.0

    The IVP edits a sample document. If the document looks the same as
    the illustration in the installation guide, then the installation
    has been successful. After the document windows appears, click the
    mouse in the window to assign input focus, and type Alt/Q (hold
    down the Compose Character or "Alt" key and press Q) to quit
    DECpresent and complete the DECpresent portion of the IVP.

    Starting DECpresent....
```

16. Follow the instructions in the message. The document displayed on the screen should look like Figure 2–1.

Figure 2–1 Successful Installation Display



The screen displays the following messages:

```
    Starting DECpresent....
        ************************************
        DECpresent V1.0
        IVP COMPLETED SUCCESSFULLY
        ************************************
IVP completed for: DECpresent V1.0
Executing IVP for:  International Lexicon/American for VMS V1.0
        ******************************************
        International Lexicon/American for VMS V1.0
        IVP COMPLETED SUCCESSFULLY
```

```
        ******************************************

IVP completed for:  International Lexicon/American for VMS V1.0
Executing IVP for:  DECchart

        ************************************
        DECchart V1.1
        IVP COMPLETED SUCCESSFULLY
        ************************************
IVP completed for: DECchart V1.1


Beginning the CDA Converter Library V1.1 Installation Verification
Procedure

Starting verification of the AFS front and back ends

Starting verification of the CGM front end

Starting verification of the DCA front and back ends

Starting verification of the DX front and back ends

*** The GKS run-time library is not installed. ***
*** The Graphics back end cannot be tested at this time. ***

Starting verification of the MACPAINT front and back ends

Starting verification of the SGML front and back ends

Starting verification of the TIFF front and back ends

Starting verification of the ASCII Tabular front and back ends

Starting verification of the CALCGRD front end

Starting verification of the DIF front end

Starting verification of the WK1 front and back ends

CDA Converter Library V1.1 IVP completed successfully.

     You must now restart the DECwindows server on each workstation
     that will use DECpresent.
     If you don't do this, the workstation user will not be able to
     use the new Equation Editor and Bullet fonts.
     To do this, log in to each workstation in a privileged account
     and type
          @sys$startup:decw$startup.com restart

        Installation of PRESENT V1.0 completed at 19:34


Enter the products to be processed from the next distribution volume set.
* Products: ^Z

        VMSINSTAL procedure done at 15:48
```

The installation is complete. Refer to the postinstallation procedures in Chapter 3.

3

DECpresent Postinstallation Procedures

This chapter describes tasks you must complete after you install DECpresent.

3.1 Editing Startup Files

You must edit the system startup file SYS$MANAGER:SYSTARTUP_V5.COM and, optionally, PRESENT$STARTUP.COM before using DECpresent.

3.1.1 Editing SYSTARTUP_V5.COM

Add the following lines to SYS$MANAGER:SYSTARTUP_V5.COM:

```
$ @SYS$STARTUP:PRESENT$STARTUP.COM  ! DECpresent
$ @SYS$STARTUP:LCI$STARTUP.COM  ! International Lexicons
```

Note

If an international lexicon has previously been installed, LCI$STARTUP.COM should be in SYS$MANAGER:SYSTARTUP_V5.COM.

If you install a DECpresent language variant, make sure you use the proper parameter with WRITE$STARTUP.COM. Also, add DECW$STARTI18N.COM to SYS$STARTUP.COM. For example:

```
$ @SYS$STARTUP:WRITE$STARTUP "parameter"
$ @SYS$MANAGER:DECWSTARTI18N "parameter"
```

where *parameter* identifies the DECpresent language variant you are installing. See Table 3–1 for a list of these language parameters.

Note

The line for the language variants must come after the line that starts the network.

For example, in SYS$MANAGER:SYSTARTUP_V5.COM, you might see:

```
$ @SYS$MANAGER:STARTNET.COM
        .
        .
        .
$ @SYS$MANAGER:DECW$STARTI18N.COM "parameter"
```

where *parameter* identifies the DECpresent language variant you are installing. See Table 3–1 for a list of these language parameters.

Table 3–1 Language Parameters

Language	Parameter
American English	none required
Belgian French	FR_BE
Dutch	NL_NL
French	FR_FR
French Canadian	FR_CA
German	DE_DE
Italian	IT_IT
Swedish	SV_SE
Swiss French	FR_CH
Swiss German	DE_CH
Swiss Italian	IT_CH

You can start multiple languages on the same line in SYSTARTUP_V5.COM by separating the parameters by commas. For example, the following command would start Dutch, French, and German:

```
$ @SYS$STARTUP:DECW$STARTI18N "NL_NL,FR_FR,DE_DE"
```

3.1.2 Editing PRESENT$STARTUP.COM

PRESENT$STARTUP.COM defines the logical PRESENT$EXAMPLES to point to the DECpresent examples directory, SYS$COMMON:[SYSHELP.EXAMPLES].

When installing a DECpresent language variant, the installation places the DECpresent examples in a language specific subdirectory. This subdirectory is SYS$COMMON:[SYSHELP.EXAMPLES.*XX_YY*.DECPRESENT], where *XX_YY* is the language parameter. See Table 3–1 for a list of the language parameters. Remove the commented line in PRESENT$STARTUP.COM that

defines PRESENT$EXAMPLES to point to the appropriate language variant directory.

By default, all the INSTALL commands in PRESENT$STARTUP.COM are commented out. You can optionally remove the comments for the images and shared libraries you want to install. This improves system performance on systems where multiple users are running DECpresent concurrently.

Make sure you have completed the steps in Section 1.7 before executing PRESENT$STARTUP.COM on a standalone system or on other nodes in a VAXcluster.

3.2 Installing DECpresent on a Standalone System

When installing DECpresent on a standalone system

1. Enter `@SYS$STARTUP:PRESENT$STARTUP.COM`
2. If you have installed any non-US language variants also enter `@SYS$MANAGER:DECW$STARTI18N` *`parameter`* where *parameter* is a language parameter, or parameters, from Table 3–1.

   If you have installed DECpresent on a workstation, you must restart the DECwindows server so that it can use the new fonts required by the Equation Editor and the Bullets dialog box. Enter `@SYS$STARTUP:DECW$STARTUP RESTART` to restart the server.

3.3 Installing DECpresent on a VAXcluster

To install DECpresent on a cluster with a common system disk, make sure you load the DECpresent license and the American English lexicon license on each node in the cluster.

You also need to restart the DECwindows server on each of the satellite workstations. Starting the server gives those workstations access to the required video fonts.

To load the licenses, enter the following commands:

```
$  mc sysman
SYSMAN>  set environment/cluster/user=system
Remote Password: <system password for the cluster nodes>
SYSMAN>  do license load PRESENT-V
SYSMAN>  do install replace sys$library:dcltables.exe
SYSMAN>  do install replace sys$library:cda$access
SYSMAN>  do license load intl-lexicon-american
SYSMAN>  do @sys$startup:lci$startup
SYSMAN>  do @sys$startup:PRESENT$startup
SYSMAN>  do @sys$startup:decw$startup restart
! If there are no active users. Only required for workstations
SYSMAN>  do @sys$manager:decwstarti18n PARAMETER
!DECpresent language variants
SYSMAN>  exit
```

See Table 3–1 for a list of the language parameters.

3.4 Rebooting the System

You can reboot your system after you have installed DECpresent and reset the system parameters (if necessary). A system reboot verifies that DECpresent is ready for use and establishes any new parameter settings. Note, however, that rebooting is optional.

3.5 User Account Requirements

To use DECpresent, user accounts on your system must have certain privileges and quotas. The next two sections contain information about these requirements.

3.5.1 Privileges

To use DECpresent, each account must have at least the TMPMBX and NETMBX privileges. Use the VMS Authorize utility to determine whether users have the privileges they require.

3.5.2 User Account Quotas

You must make sure that the appropriate user accounts have sufficient quotas to be able to use DECpresent. Table 3–2 summarizes minimum recommended process quotas.

Table 3–2 User Account Quotas

Account Quota	Value
ASTLM	100
BIOLM	40
DIOLM	40
FILLM	40
TQELM	20
ENQLM	110
WSDEF	256
WSQUOTA	512
WSEXT	4,100[1]

[1]On a single-user workstation, the value of WSEXT can be set equal to the value of WSMAX for better performance.

User account quotas are stored in the file SYSUAF.DAT. Use the Authorize utility to verify and change user account quotas. First set your directory to SYS$SYSTEM and then run AUTHORIZE:

```
$  SET DEFAULT SYS$SYSTEM
$  RUN AUTHORIZE
UAF>
```

At the AUTHORIZE prompt (UAF>), use the SHOW command with an account name to check a particular account. For example:

```
UAF> SHOW SMITH
```

To change a quota, use the MODIFY command at the UAF> prompt. MODIFY has the following format:

```
MODIFY account-name /quota-name=nnnn
```

This example changes the FILLM quota for the SMITH account and then exits from the utility:

```
UAF> MODIFY SMITH /FILLM=40
UAF> EXIT
```

After you exit from the utility, the VMS system displays messages indicating whether or not changes were made. Once you have finished making the changes, the users must log out and log in again for the new quotas to take effect.

For more information about modifying account quotas, see the description of the Authorize utility in the VMS system management and operations documentation.

3.6 Tuning Your System

After you install DECpresent, you might want to adjust your system to enhance performance or lower the use of some system resources. Information about tuning your system is included in the *VMS System Management, Volume 4, Performance* manual.

3.7 Selecting a Language

You need to specify what language you will use when you run a DECpresent language variant. Select the language by choosing Language from the Customize menu in the Session Manager and double clicking on the primary language.

3.8 Installation Verification Procedures

The DECpresent Installation Verification Procedures are run automatically at the end of the DECpresent installation procedure if you enter YES to that option during the installation.

Note

Before you run the IVP for any language other than English, you must first set the language you will use.

If you did not enter YES, you may want to run the IVPs later. If run later, the IVPs need three separate command procedures:

```
$  @SYS$TEST:PRESENT$IVP.COM        ! DECpresent
$  @SYS$TEST:CHART$IVP.COM          ! DECchart
$  @SYS$TEST:LAE$IVP.COM            ! American-English lexicon
$  @SYS$TEST:CDACVTLIB$IVP.COM      ! CDA Converters
```

You receive a message indicating whether the IVP succeeded or failed.

3.9 Using the Font Utility

The Font utility is a program that allows users to add new fonts or delete existing fonts from the DECpresent font family menu. See Section 3.9.3 for the Font utility commands, formats, and descriptions.

If you include a font using the Font utility that does not have an equivalent *weight* or *slant* in DECpresent, DECpresent maps the weight and slant of the imported font to a weight and slant that it does use.

3.9.1 Preparing to Run the Font Utility

To prepare to run the font utility you must first:

- Install all screen fonts in the SYS$COMMON:[SYSFONT.DECW.USER_75DPI] for 75 dpi font directories or SYS$COMMON:[SYSFONT.DECW.USER_100DPI] for 100 dpi font directories and make them known to the DECwindows server by restarting the server.
- Install all corresponding Adobe Font Metric (.AFM) and .PS outline files in the SYS$PS_FONT_METRICS: directory.
- Be sure you have defined your display. (See Chapter 2.)

After adding new fonts to DECpresent enter the following command at the $ prompt.

```
SET FILE /PROTECTION=(W:RE) SYS$LIBRARY:WRITE$FONTS.INI
```

If you do not issue this command, DECpresent displays an error message saying that it cannot open WRITE$FONTS.INI and exits.

3.9.2 Font Utility Startup

The font utility's initialization will require approximately 30-60 seconds.

At the $ prompt enter:

```
write$fontutil infilename
```

or

```
write$fontutil infilename outfilename
```

The arguments *infilename* and *outfilename* refer to the font initialization file.

The screen displays:

```
V1.1 Font Utility
You may have to wait 30-60 seconds while this utility initializes...
Enter command>
```

3.9.3 Font Utility Commands and Descriptions

The Font utility allows users to manage additional fonts not shipped with DECpresent. Table 3–3 shows the Font utility's messages and some explanation of them.

Each of these commands uses two font lists. The *add* list contains font families that may be added to the DECpresent menu. The *menu* list contains font families that are already part of the DECpresent menu.

Table 3–3 Font Utility Commands

Command	Format, Effects, and Descriptions
Add	Add ''*fontname*''
	Displays one new font family if you specify a *fontname* and places it (*fontname*) on the menu list, and removes it from the add list.
	If you do not specify the fontname, the add command prompts you for it with the prompt *Family name:*. If you press the Return key without specifying a fontname the add command changes nothing.
Hide	Hide ''*fontname*''
	Hides the fontname from the menu list. Hidden or invisible fonts are available to existing DECpresent files read in, but are not visible on the DECpresent Font Family menu. This feature is useful for hiding the DECmath fonts from the menu or in permitting a user to exclude a standard font without actually deleting it.
	If you do not specify the fontname, the hide command will prompt for it with *Family name:*. If you press Return, the hide command changes nothing.
Delete	Delete ''*fontname*''
	Deletes the indicated fontname from the menu list, adding it to the add list.
	If you do not specify the fontname, the delete command prompts you for it with *Family name:*. If you press Return, the delete command changes nothing.

(continued on next page)

Table 3–3 (Cont.) Font Utility Commands

Command	Format, Effects, and Descriptions

Exit	Exit *outfilename*
	Saves the changes made to *infilename* to *outfilename*. If you do not specify *outfilename* on the command line, the exit command uses the following defaults:
	• If you specify *outfilename* in the startup command line
	`$ write$fontutil infilename outfilename`
	or
	• If you specify *infilename* in startup command line
	`$ write$fontutil infilename`
	In either case, DECpresent verifies that you wish to write to the indicated file. This is especially important if *infilename* would be overwritten by the changes you have just made.

Quit	Quit Terminates session without saving changes. If you made changes to the *infilename*, the font utility prompts you to confirm that you want to quit without saving your changes. If you answer yes, the font utility's session terminates without saving any changes. If you answer no, the utility saves no changes and the font utility continues running. If you have made no changes to the *infilename* the font utility session ends without confirmation.
Rename	Rename ''*oldfontname*'' ''*newfontname*'' Renames the indicated font family to a new font name. The font names are the same names displayed on the DECpresent Font Family menu. Changing this name does not affect DECpresent internal font names that are used in looking up a font chosen during a DECpresent session. If you do not specify *oldfontname*, *newfontname* or both names, the rename command will ask for the omitted information with the prompts *From:* and *To:* for the *oldfontname* and *newfontname*, respectively. If you press Return at either of these prompts without entering a font name, the rename command is abandoned.

(continued on next page)

Table 3–3 (Cont.) Font Utility Commands

Command	Format, Effects, and Descriptions
Show	Show [Full] [Add | Menu] ''*fontname*'' Displays the indicated fonts and optionally their corresponding screen font names, .PS filenames and .AFM filenames. If you do not specify a *fontname* or an option, the Show command defaults to Show Menu showing all entries in the menu list. • Add Displays all the entries in the *add* list or displays an entry if you specify a *fontname*. • Full Displays additional information consisting of screen font names, .ps filenames and .afm filenames. • Menu Displays all entries in the menu list or displays an entry if you specify a *fontname*.
Reveal	Reveal ''*fontname*'' Displays the indicated hidden *fontname* on the ''menu'' list. See the Hide command for details about hidden fonts. If you do not specify the fontname, the reveal command will prompt you for it with *Family name:*. If you press Return, the utility reveals nothing.

3.10 Files Copied During Installation

To see a list of the files copied to your VAX or ULTRIX system during the DECpresent installation, copy and print the following file from the SYS$COMMON:[SYSHLP.PRESENT] directory after installation:

```
present_file_list.txt
```

3.11 Running DECpresent from FileView

As part of the installation, DECpresent is added to the FileView Applications menu. You should inform all users after the installation that DECpresent is now available as an option on their FileView Applications menu.

If you install a language variant of DECpresent on a system where the same language variant of FileView exists, DECpresent is added to the FileView Applications menu.

For more information on FileView, refer to the *DECwindows User's Guide*.

3.12 Running DECpresent from DCL

To run DECpresent from the DCL command line enter at the $ prompt:

```
run sys$system:DECpresent
```

You can also add a line to your login.com file to define a symbol to run DECpresent. For example:

```
DECpresent :== $ sys$system:DECpresent
```

A user could, after logging out and then logging back in or running login.com, enter at the DCL $ prompt:

```
DECpresent filename
```

This would invoke DECpresent and open the named document.

3.13 Determining and Reporting Problems

If you encounter a problem while using DECpresent, report it to Digital. Depending on the nature of the problem and the type of support you have, you can take one of the following actions:

- Call Digital if your software contract or warranty agreement entitles you to telephone support.
- Submit a Software Performance Report (SPR).

Review the Software Product Description (SPD) and Warranty Addendum for warranty information. If you encounter a problem during the warranty period, report the problem as indicated above or follow alternate instructions provided by Digital for reporting SPD nonconformance problems.

A

Sample DECpresent Installation

This appendix contains printouts of typical DECpresent installation procedures. These procedures show

- A full installation with all licenses installed
- An installation with only the font license installed

To perform a successful installation, you must:

1. Prepare your system by completing the procedure in Chapter 1.
2. Install DECpresent by completing the installation procedure described in Chapter 2.
3. Perform any needed postinstallation procedures described in Chapter 3.

A.1 Full DECpresent Installation

This sample installation printout shows the user responses and system messages when all the appropriate licenses have been installed.

```
$ @sys$update:vmsinstal present010 sys$update:

        VAX/VMS Software Product Installation Procedure V5.4


It is 1-NOV-1990 at 18:20.

Enter a question mark (?) at any time for help.
%VMSINSTAL-W-NOTSYSTEM, You are not logged in to the SYSTEM account.

%VMSINSTAL-W-LOWQUOTA, The following account quotas may be too low:
        ENQLM: currently 100; minimum expected 200
        FILLM: currently 20; minimum expected 100

%VMSINSTAL-W-ACTIVE, The following processes are still active:
        DECW$TE_3
        _TWA2:
        _TWA3:
        _TWA6:
        _RTA1:
* 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:
  PRESENT V1.0

        Beginning installation of PRESENT V1.0 at 18:20

%VMSINSTAL-I-RESTORE, Restoring product save set A ...
%VMSINSTAL-I-RELMOVED, Product's release notes have been moved to SYS$HELP.

                DECpresent V1.0 Installation Procedure


    International Hyphenators and International CorrectSpell (TM)
    Copyright (c) 1985, 1987, 1988 by Houghton Mifflin.  All rights
    reserved. US Pat. Nos. 4,508,241, 4,730,269, and 4,771,401.
    Canadian Pat. No. 1,203,916.

    Portions licensed to Digital Equipment Corporation, Maynard,
    Massachusetts.  Copyright Frame Technology Corporation 1989.
    All rights reserved.

%VMSINSTAL-I-RESTORE, Restoring product save set B ...
%VMSINSTAL-I-RESTORE, Restoring product save set C ...

    User quota (not critical) ...
        WSDEFAULT, WSQUOTA, or WSEXTENT is 170 ... suggested minimum: 256

     You can install the DECpresent kit completely or just the video
     fonts required to create equations and bullets.

     If you are installing this kit for use on a workstation, or on a
     VAXcluster that includes workstations, then you should install
     the entire kit. This requires 33935 blocks.

     If you are installing this kit on a workstation that will only run
     DECpresent from a remote system, then only the video font files are
     needed. This requires 1518 blocks.

* Do you want to install the entire kit [YES]?

     Installing entire DECpresent kit....


    This kit requires DECchart V1.1 or later.

    ************************************************************

    DECchart V1.1 will be installed since it does
    not exist on your system.

    ************************************************************


     This kit requires the Equation Editor V1.1-1 or later.

     The Equation Editor V1.1-1 will be installed
     since it does not exist on your system.


     The DECpresent spell check lexicons will be installed in the directory
     SYS$SYSDEVICE:[LCI.LEXICONS] by default. You may optionally install the
     files on a device other than the system disk.

* Please specify a device on which to install the spell check lexicons
[SYS$SYSDEVICE:]: dkb300:
  You have chosen the device DKB300:

* Is this correct [YES]?

     Checking/registering INTL-LEXICON-AMERICAN Product Authorization Key...
```

```
        Product:      PRESENT-V
        Producer:     DEC
        Version:      1.0
        Release Date: 1-DEC-1990

* Does this product have an authorization key registered and loaded? y
* Do you want to run the IVP after the installation [YES]?

%VMSINSTAL-W-NODISPLAY, Workstation display not defined

Please enter the node name of the workstation on which to display the IVP
or press Return to continue and not run the IVP

* Node name: latham

* Do you want to purge files replaced by this installation [YES]?
* Please a specify location for the clipart directories
[SYS$SYSDEVICE:[CLIPART]]: dkb300:[clipart]

     Your clipart directory will be DKB300:[CLIPART]
* Is this correct [YES]?

    To complete the installation on a standalone VAX 11/780
    will take approximately:

        1 hour and 10 minutes to install
        10 minutes to run the IVP

    All required questions have been asked.
    You can terminate the installation procedure at this time.

* Do you want to continue the installation [YES]?
%VMSINSTAL-I-RESTORE, Restoring product save set D ...
%VMSINSTAL-I-RESTORE, Restoring product save set E ...
%VMSINSTAL-I-RESTORE, Restoring product save set F ...
%VMSINSTAL-I-RESTORE, Restoring product save set G ...
%VMSINSTAL-I-RESTORE, Restoring product save set H ...
%VMSINSTAL-I-RESTORE, Restoring product save set I ...
%VMSINSTAL-I-RESTORE, Restoring product save set J ...
%VMSINSTAL-I-RESTORE, Restoring product save set K ...
%VMSINSTAL-I-RESTORE, Restoring product save set L ...
%VMSINSTAL-I-SYSDIR, This product creates system disk directory
VMI$ROOT:[SYSHLP.PRESENT].
%VMSINSTAL-I-SYSDIR, This product creates system disk directory
VMI$ROOT:[SYSHLP.EXAMPLES.PRESENT].
%VMSINSTAL-I-SYSDIR, This product creates system disk directory
VMI$ROOT:[SYSTEST.PRESENT].
Providing font files...
Providing equation editor files...
Providing DECpaint files...
Providing clip art files...
Providing lexicon files...
Providing core DECpresent files...
Providing font definition file...
Providing shareable library files...
%VMSINSTAL-I-SYSDIR, This product creates system disk directory
VMI$ROOT:[SYSTEST.CHART$IVP].
%VMSINSTAL-I-SYSDIR, This product creates system disk directory
VMI$ROOT:[SYSHLP.EXAMPLES.DECCHART].
%VMSINSTAL-I-SYSDIR, This product creates system disk directory
VMI$ROOT:[SYSTEST.CDACVTLIB].

     The following commands must be added to the system startup
     command file SYS$MANAGER:SYSTARTUP_V5.COM for all nodes that will
     be running DECpresent:
```

```
          @sys$startup:present$startup
          @sys$startup:lci$startup.com     !American-English lexicon

     If you are installing this kit on a workstation, you should
     restart DECwindows after the installation has completed:

          @sys$startup:decw$startup restart


     You must now restart the DECwindows server on each workstation
     that will use DECpresent.
     If you don't do this, the workstation user will not be able to
     use the new Equation Editor and Bullet fonts.
     To do this, log in to each workstation in a privileged account
     and type
          @sys$startup:decw$startup.com restart

%VMSINSTAL-I-MOVEFILES, Files will now be moved to their target directories...
Repairing semantics on DDIF files...
%DCL-I-SUPERSEDE, previous value of PRESENT$EXAMPLES has been superseded
%VMSINSTAL-I-RUNIVP, Executing installation verification procedure(s)

Executing IVP for: DECpresent V1.0

    The IVP edits a sample document. If the document looks the same as
    the illustration in the installation guide, then the installation
    has been successful. After the document windows appears, click the
    mouse in the window to assign input focus, and type Alt/Q (hold
    down the Compose Character or "Alt" key and press Q) to quit
    DECpresent and complete the DECpresent portion of the IVP.

    Starting DECpresent....

        ************************************

        DECpresent V1.0

        IVP COMPLETED SUCCESSFULLY

        ************************************

IVP completed for: DECpresent V1.0

Executing IVP for:  International Lexicon/American for VMS V1.0

        ******************************************

        International Lexicon/American for VMS V1.0

        IVP COMPLETED SUCCESSFULLY

        ******************************************


IVP completed for:  International Lexicon/American for VMS V1.0
Executing IVP for:  DECchart V1.1
        ************************************
        DECchart V1.1
        IVP COMPLETED SUCCESSFULLY
        ************************************
IVP completed for: DECchart V1.1

Beginning the CDA Converter Library V1.1 Installation Verification
Procedure

Starting verification of the AFS front and back ends

Starting verification of the CGM front end
```

```
Starting verification of the DCA front and back ends

Starting verification of the DX front and back ends

*** The GKS run-time library is not installed. ***
*** The Graphics back end cannot be tested at this time. ***

Starting verification of the MACPAINT front and back ends

Starting verification of the SGML front and back ends

Starting verification of the TIFF front and back ends

Starting verification of the ASCII Tabular front and back ends

Starting verification of the CALCGRD front end

Starting verification of the DIF front end

Starting verification of the WK1 front and back ends

CDA Converter Library V1.1 IVP completed successfully.

     You must now restart the DECwindows server on each workstation
     that will use DECpresent.
     If you don't do this, the workstation user will not be able to
     use the new Equation Editor and Bullet fonts.
     To do this, log in to each workstation in a privileged account
     and type
          @sys$startup:decw$startup.com restart

        Installation of PRESENT V1.0 completed at 19:34

        VMSINSTAL procedure done at 19:34
```

A.2 Video Font Only DECpresent Installation

This sample installation printout shows the user responses and system messages that appear during a video font only installation.

```
$ @sys$update:vmsinstal present010 sys$update

        VAX/VMS Software Product Installation Procedure V5.4


It is 1-NOV-1990 at 17:49.

Enter a question mark (?) at any time for help.
%VMSINSTAL-W-NOTSYSTEM, You are not logged in to the SYSTEM account.

%VMSINSTAL-W-LOWQUOTA, The following account quotas may be too low:
        ENQLM: currently 100; minimum expected 200
        FILLM: currently 20; minimum expected 100

%VMSINSTAL-W-ACTIVE, The following processes are still active:
        _TWA2:
        _TWA3:
        _TWA6:
        _RTA1:
* 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:
  PRESENT V1.0

        Beginning installation of PRESENT V1.0 at 17:50
```

```
%VMSINSTAL-I-RESTORE, Restoring product save set A ...
%VMSINSTAL-I-RELMOVED, Product's release notes have been moved to SYS$HELP.

               DECpresent V1.0 Installation Procedure


    International Hyphenators and International CorrectSpell (TM)
    Copyright (c) 1985, 1987, 1988 by Houghton Mifflin.  All rights
    reserved. US Pat. Nos. 4,508,241, 4,730,269, and 4,771,401.
    Canadian Pat. No. 1,203,916.

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    Massachusetts.  Copyright Frame Technology Corporation 1989.
    All rights reserved.

%VMSINSTAL-I-RESTORE, Restoring product save set B ...
%VMSINSTAL-I-RESTORE, Restoring product save set C ...

    User quota (not critical) ...
        WSDEFAULT, WSQUOTA, or WSEXTENT is 170 ... suggested minimum: 256

     You can install the DECpresent kit completely or just the video
     fonts required to create equations and bullets.

     If you are installing this kit for use on a workstation, or on a
     VAXcluster that includes workstations, then you should install
     the entire kit. This requires 33935 blocks.

     If you are installing this kit on a workstation that will only run
     DECpresent from a remote system, then only the video font files are
     needed. This requires 1518 blocks.

* Do you want to install the entire kit [YES]? n
* Do you want to install only the video fonts [YES]?

     Installing only the Equation Editor and Bullet fonts...


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

    To complete the installation on a standalone VAX 11/780
    will take approximately:

        10 minutes to install

    All required questions have been asked.
    You can terminate the installation procedure at this time.

* Do you want to continue the installation [YES]?
%VMSINSTAL-I-RESTORE, Restoring product save set D ...
%VMSINSTAL-I-RESTORE, Restoring product save set E ...
%VMSINSTAL-I-SYSDIR, This product creates system disk directory
VMI$ROOT:[SYSHLP.EXAMPLES.PRESENT].
Providing font files...

     If you are installing this kit on a workstation, you should
     restart DECwindows after the installation has completed:

          @sys$startup:decw$startup restart
```

```
     You must now restart the DECwindows server on each workstation
     that will use DECpresent.
     If you don't do this, the workstation user will not be able to
     use the new Equation Editor and Bullet fonts.
     To do this, log in to each workstation in a privileged account
     and type
          @sys$startup:decw$startup.com restart

%VMSINSTAL-I-MOVEFILES, Files will now be moved to their target directories...
        Installation of PRESENT V1.0 completed at 17:55

        VMSINSTAL procedure done at 17:55
```

Index

B

Backing up the system disk, 7
Beginning the installation, 11

C

Checking the distribution kit, 1
Cluster
  installing DECpresent, 4
Commands
  Font utility, 28

D

DECpresent
  running from DCL, 31
  running from FileView, 31
DECpresent startup file
  editing, 22
  PRESENT$STARTUP.COM, 22
Disk blocks
  displaying number of free disk blocks, 5
Distribution kit
  contents of, 1

E

Examples
  PRESENT$EXAMPLES directory, 22

F

Files copied during installation, 30
Font utility, 27
  commands, 28
  descriptions, 28
  messages, 28
  preparing to run, 27
  startup, 27
Free disk blocks
  displaying number of, 5

G

Global pages, 5
Global sections, 5

I

Images, 23
Installation
  files copied, 30
  sample printout, 33
Installation on a standalone system, 23
Installation on a VAXcluster, 23
Installation Verification Procedures
  running after installation, 26

L

Language
  parameter, 22
  variant, 22
Libraries, shared, 23
License registration, 3

M

Messages
  Font utility, 28

P

Parameter
  language, 22
Preparing for installation, 1
Prerequisite software for DECpresent
    installation, 2
PRESENT$STARTUP.COM, 22

R

Running DECpresent, 31

S

Sample installation printout, 33
SHOW DEVICE command
  displaying number of free disk blocks, 5
Software
  required before installing DECpresent, 2
Standalone system
  installation on, 23
Starting the installation, 11
System disk
  backing up, 7
System startup file
  editing, 21

V

VAXcluster
  installation on, 23
  installing DECpresent, 4
VMSINSTAL
  command line, 11
  starting the installation, 11