Compaq DECwindows Motif /Hangul for OpenVMS

Installation Guide

August 2001

This manual provides step-by-step instructions for installing *Compaq DECwindows Motif /Hangul for OpenVMS*.

Revision/Update Information:	This manual supersedes the *DECwindows Motif /Hangul Version 1.2–3 for OpenVMS Installation Guide*.
Operating System:	OpenVMS Alpha Version 6.2, 7.1–2, 7.2–1, or 7.3 OpenVMS VAX Version 6.2, 7.1, 7.2, or 7.3 VMS Version 5.5–2
Software Version:	*Compaq DECwindows Motif /Hangul for OpenVMS* Alpha, Version 1.2–6 *Compaq DECwindows Motif /Hangul for OpenVMS* VAX, Version 1.2–6

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The Compaq OpenVMS documentation set is available on CD-ROM.

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Preface

Intended Audience

This manual is intended for anyone who plans to install *Compaq DECwindows Motif /Hangul for OpenVMS* software.

Document Structure

This manual contains the following chapters and appendixes:

- Chapter 1 discusses how to prepare for installing *Compaq DECwindows Motif /Hangul for OpenVMS* software.
- Chapter 2 discusses how to install *Compaq DECwindows Motif /Hangul for OpenVMS* using the POLYCENTER Software Installation utility.
- Chapter 3 discusses how to install *Compaq DECwindows Motif /Hangul for OpenVMS* using the VMSINSTAL procedure.
- Appendix A presents a sample DECwindows Motif installation using the POLYCENTER Software Installation utility on Alpha systems.
- Appendix B shows a sample product installation using the VMSINSTAL procedure on VAX systems.
- Appendix C shows how to obtain a list of the software components for the *Compaq DECwindows Motif /Hangul for OpenVMS* product using the POLYCENTER Software Installation utility.

Related Documents

In addition to this manual, the following documents are useful when installing *Compaq DECwindows Motif /Hangul for OpenVMS* software:

- *Compaq DECwindows Motif for OpenVMS Release Notes*
- *Guide to the Compaq DECwindows Motif for OpenVMS CD–ROM*
- *Getting Started With the New Desktop*
- *Managing DECwindows Motif for OpenVMS Systems*
- *OpenVMS System Manager's Manual*
- *OpenVMS System Management Utilities Reference Manual*
- *A Comparison of System Management on OpenVMS AXP and OpenVMS VAX*

For additional information on the OpenVMS System Software Group (OSSG) products and services, access the following OpenVMS World Wide Web address:

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Conventions

Compaq DECwindows Motif /Hangul for OpenVMS Alpha contains a graphical user interface that is derived from the Common Desktop Environment (CDE). This interface is referred to throughout this document as the New Desktop.

VMScluster systems are now referred to as OpenVMS Cluster systems. Unless otherwise specified, references to OpenVMS Clusters or clusters in this document are synonymous with VMSclusters.

In this manual, every use of DECwindows and DECwindows Motif refers to *Compaq DECwindows Motif /Hangul for OpenVMS* software.

The following conventions are also used in this manual:

Ctrl/*x*	A sequence such as Ctrl/*x* indicates that you must hold down the key labeled Ctrl while you press another key or a pointing device button.
Return	In examples, a key name enclosed in a box indicates that you press a key on the keyboard. (In text, a key name is not enclosed in a box.) In the HTML version of this document, this convention appears as brackets, rather than a box.
. . .	Horizontal ellipsis points in examples indicate one of the following possibilities: • Additional optional arguments in a statement have been omitted. • The preceding item or items can be repeated one or more times. • Additional parameters, values, or other information can be entered.
. . .	Vertical ellipsis points indicate the omission of items from a code example or command format; the items are omitted because they are not important to the topic being discussed.
( )	In command format descriptions, parentheses indicate that you must enclose the choices in parentheses if you choose more than one.

[ ]	In command format descriptions, brackets indicate optional elements. You can choose one, none, or all of the options. (Brackets are not optional, however, in the syntax of a directory name in an OpenVMS file specification or in the syntax of a substring specification in an assignment statement.)
|	In command format descriptions, vertical bars separating items inside brackets indicate that you choose one, none, or more than one of the options.
{ }	In command format descriptions, braces surround a required choice of options; you must choose one of the options listed.
text style	This text style represents the introduction of a new term or the name of an argument, an attribute, or a reason. In the HTML version of this document, this convention appears as *italic text*.
italic text	Italic text indicates important information, complete titles of manuals, or variables. Variables include information that varies in system messages (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 type`	Monospace type indicates code examples and interactive screen displays. In the C programming language, monospace type in text identifies the following elements: keywords, the names of independently compiled external functions and files, syntax summaries, and references to variables or identifiers introduced in an example.
-	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

Preparing to Install the Software

This chapter describes the preparation and requirements for installing *Compaq DECwindows Motif /Hangul for OpenVMS* software using either the POLYCENTER Software Installation utility or the VMSINSTAL procedure. Your Bill of Materials (BOM) specifies the number and contents of your media. Verify the contents of your kit with this information. If your kit is damaged or if you find that parts are missing, contact your Compaq representative.

Note

Compaq strongly recommends that you read the release notes before proceeding with the installation. The *Compaq DECwindows Motif /Hangul for OpenVMS* product provides online release notes. For information about accessing the release notes:

- If you install the software using the POLYCENTER Software Installation utility, see Section 2.2.
- If you use the VMSINSTAL procedure to install the software, see Section 3.2.5.

This chapter presents information about the following topics:

- Section 1.1, License Registration
- Section 1.2, Supported Hardware
- Section 1.3, Prerequisites for the Installation Procedures
- Section 1.4, Required Software
- Section 1.5, Required ECO for POLYCENTER Software Installation Utility
- Section 1.6, Installation Procedure Requirements

1.1 License Registration

Before you install and run *Compaq DECwindows Motif /Hangul for OpenVMS* software on a newly licensed node or cluster, you must first register a License Product Authorization Key (License PAK) using the License Management Facility (LMF). The License PAK is provided along with the kit if you ordered the license and media together; otherwise, it is provided separately to a location based on your license order.

If you are installing *Compaq DECwindows Motif /Hangul for OpenVMS* software as an update on a node or cluster already licensed for this software, you have already completed the License PAK registration requirements.

You must register and load your license for *Compaq DECwindows Motif /Hangul for OpenVMS* before you run the Installation Verification Procedure (IVP) and use the software.

To register a license, log in to the system manager account (SYSTEM). Then choose one of the following options to register the license:

- Invoke the SYS$UPDATE:VMSLICENSE.COM procedure. When the procedure prompts you for information, respond with data from your License PAK.
- At the DCL prompt, enter the LICENSE REGISTER command with the appropriate qualifiers that correspond to License PAK information.

If you plan to use *Compaq DECwindows Motif /Hangul for OpenVMS* software on more than one node in a VMScluster, load the license on the other nodes after you complete this installation.

For complete information about using LMF, see the *OpenVMS License Management Utility Manual*.

1.2 Supported Hardware

Compaq DECwindows Motif /Hangul for OpenVMS software can be installed on any supported Alpha or VAX processor. For a complete list of supported hardware, see the *Compaq DECwindows Motif /Hangul for OpenVMS Software Product Description* (SPD).

1.3 Prerequisites for the Installation Procedures

Before you can install and configure *Compaq DECwindows Motif /Hangul for OpenVMS* software, you must have the required versions of the OpenVMS operating system software, sufficient memory, and a license. (Refer to Section 1.1 for information about registering a License Product Authorization Key [PAK].)

Use the POLYCENTER Software Installation utility or the VMSINSTAL procedure to install your DECwindows Motif software according to the operating system information that follows.

Operating System	Installation Method
OpenVMS Alpha	POLYCENTER Software Installation utility
OpenVMS VAX	VMSINSTAL procedure

1.4 Required Software

The *Compaq DECwindows Motif /Hangul for OpenVMS* software requires one of the following operating systems:

- OpenVMS Alpha Version 6.2, 7.1–2, 7.2–1, or 7.3
- OpenVMS VAX Version 6.2, 7.1, 7.2, or 7.3
- VMS Version 5.5–2

If your system is not running one of these versions before you attempt to install *Compaq DECwindows Motif /Hangul for OpenVMS*, the installation fails.

A minimum of 20 MB of memory is required for OpenVMS VAX systems; 32 MB of memory is highly recommended. A minimum of 64 MB of memory is required for OpenVMS Alpha systems; at least 128 MB of memory is highly recommended.

OpenVMS locale support kit, VMSI18N0xx is required on OpenVMS Alpha and VAX system except for VMS V5.5-2. Please install the locale kit as the following example for OpenVMS Alpha V7.3.

```
$ @SYS$UPDATE:VMSINSTAL VMSI18N073 disk:[VMSI18N_ALPHA073.KIT]
```

Please answer yes to the question about Korean support.

```
        * Do you want Korean support [YES]? yes
```

Compaq DECwindows Motif /Hangul for OpenVMS requires installation of Compaq DECwindows Motif V1.2-6 (US kit). Please install V1.2-6 US kit first and then install V1.2-6 Hangul kit. For installation of the US kit, please refer to DECwindows Motif Version 1.2-6 for OpenVMS Installation Guide.

1.5 Required ECO for POLYCENTER Software Installation Utility

If you are installing the *Compaq DECwindows Motif /Hangul for OpenVMS* software on an OpenVMS Version 6.2 or 7.1 system, you must first install an ECO to the POLYCENTER Software Installation (PCSI) utility. See the *Guide to the Compaq DECwindows Motif for OpenVMS CD–ROM* for details about this ECO. OpenVMS Versions 7.2 and higher include this functionality in the operating system; therefore, you need not apply this ECO if you are running OpenVMS Version 7.2 or higher.

The following example shows a PCSI ECO installation on an OpenVMS Alpha Version 7.1 system (installations on other OpenVMS versions differ slightly):

```
$ PRODUCT INSTALL VMS62TO71U2_PCSI

The following product has been selected:
    DEC AXPVMS VMS62TO71U2_PCSI V1.0       Patch (maintenance update)

Do you want to continue? [YES]

Configuration phase starting ...

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

DEC AXPVMS VMS62TO71U2_PCSI V1.0

* This product does not have any configuration options.

Execution phase starting ...

The following product will be installed to destination:
    DEC AXPVMS VMS62TO71U2_PCSI V1.0       DISK$1:[VMS$COMMON.]

Portion done: 0%
...10%
...40%
...70%
...80%
...90%
...100%

The following product has been installed:
    DEC AXPVMS VMS62TO71U2_PCSI V1.0       Patch (maintenance update)
```

1.5.1 Upgrade Problem After Installing Required PCSI ECO

After installing the required POLYCENTER Software Installation utility ECO, your system will use the new features provided by this version of the PCSI utility. If a layered product is installed that makes use of this new functionality, then it may not be possible to revert back to an older version of the utility. The restriction occurs because there may be records in the software product database that the older version of the utility will not be able to interpret.

This scenario occurs if you install the PCSI ECO, then install DECwindows Motif, and later install certain upgrades to the OpenVMS operating system. The steps below describe the situations when this will occur:

1. Install the PCSI ECO kit onto OpenVMS Version 6.2, 6.2–1H1, 6.2–1H2, 6.2–1H3, 7.1, 7.1–1H1, or 7.1–1H2.
2. Install DECwindows Motif Version 1.2–6.
3. Upgrade to (or reinstall) OpenVMS Version 6.2, 6.2–1H1, 6.2–1H2, 6.2–1H3, 7.1, 7.1–1H1, or 7.1–1H2.

Upgrading to any of the OpenVMS versions listed in item 3 may fail (or other PRODUCT command operations on the product database may fail) with one of the following errors:

```
%SYSTEM-F-ACCVIO, access violation, ...
%PCSI-E-UNSDOCENC, unsupported product document encoding version
```

To prevent these failures after installing the PCSI ECO and DECwindows Motif, perform the following steps:

1. Remove DECwindows Motif using the following command:

   ```
   $ PRODUCT REMOVE DWMOTIF
   ```

2. Upgrade to (or reinstall) OpenVMS Version 6.2, 6.2–1H1, 6.2–1H2, 6.2–1H3, 7.1, 7.1–1H1, or 7.1–1H2.
3. Reinstall the PCSI ECO.
4. Reinstall DECwindows Motif.

This workaround is not needed if you upgrading to OpenVMS Alpha Version 7.2-1 or higher, or if you are upgrading to OpenVMS VAX Version 7.2 or higher. These versions (and all later versions) already include the new functionality added by the PCSI ECO.

1.6 Installation Procedure Requirements

This section discusses the requirements for installing the *Compaq DECwindows Motif /Hangul for OpenVMS* software using PCSI and the VMSINSTAL installation procedure.

The installation procedure checks the following:

- Whether you are logged in to an appropriately privileged account (VMSINSTAL installations only)
- Whether any other users are logged in to the system
- Whether you have the minimum required system account quotas and limits
- Whether you have the minimum required disk space
- Whether you have the minimum required system parameter values

See Section 3.1 for information on requirements specific to VMSINSTAL installations.

1.6.1 Process Account Quotas

The installation procedure requires that the installation account has the minimum quotas shown in Table 1–1.

Table 1–1 Process Quotas for the Installation Account

Quota Name	Alpha Value	VAX Value
ASTLM	250	24
BIOLM	150	18
BYTLM	64,000	32,768

(continued on next page)

Table 1–1 (Cont.) Process Quotas for the Installation Account

Quota Name	Alpha Value	VAX Value
DIOLM	150	18
ENQLM	2,000	30
FILLM	100	20

Use the OpenVMS AUTHORIZE utility to verify and to change process quotas for the installation account in the user authorization file (UAF). (Some sites may restrict the use of the AUTHORIZE utility to certain accounts or users.) For example, to change the BYTLM quota for the *account-name* installation account, enter the following commands:

```
$ SET DEFAULT SYS$SYSTEM
$ RUN AUTHORIZE
UAF> SHOW account-name
UAF> MODIFY account-name /BYTLM = 32768
UAF> SHOW account-name
UAF> EXIT
$ LOGOUT
```

After you change the quotas for the installation account, log out of the installation account and log in again for the new quotas to take effect. You can then proceed with the installation.

User account quotas are stored in the file SYS$SYSTEM:SYSUAF.DAT. For more information about modifying account quotas, see the description of the AUTHORIZE utility in the *OpenVMS System Management Utilities Reference Manual*.

1.6.2 Disk Space

Use Table 1–2 to determine the amount of free disk space that is required on the system disk to install DECwindows Motif components. However, because you can choose not to install all the components, your actual disk space requirement may be less.

To determine the number of free blocks on the system disk, enter the following command at the DCL prompt:

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

The installation procedure checks for free disk space on the system disk. If sufficient space is not available, the installation procedure provides the following options:

- Install fewer optional files.
- For VMSINSTAL installations, restart the installation and specify another disk to use as an alternate working device. See Section 3.1.2 for information about using an alternate working device.
- Terminate the installation, create more free disk space on the system disk, and restart the installation.
- Continue the installation and risk running out of disk space.

Note

If you run out of free disk space during the installation, the installation procedure fails.

Table 1–2 Approximate Required Disk Space by Component (in Blocks)

Component	Alpha	VAX
Hangul	120,000	43,000

For VMSINSTAL installations, refer to Section 3.1.2 for information on using an alternate working device and Section 3.1.3 for information on using the Distributed File Service.

1.6.3 System Parameters

Table 1–3 lists the minimum required system parameter values for the installation. Depending on the kinds of programs and applications running at your site, you might need higher values for some settings.

Table 1–3 Minimum Required System Parameter Values

System Parameter	Alpha Value	VAX Value
GBLSECTIONS	600[1]	420[1]
GBLPAGES	150,000[1]	62,000[1]
GBLPAGFIL	1,024	6,024
SWPOUTPGCNT	512	500
MAXBUF	8,192	2,048
VIRTUALPAGECNT	—	50,000
CHANNELCNT	255	255
PROCSECTCNT	64	40
PQL_DPGFLQUOTA	—	32,768
PQL_MPGFLQUOTA	32,768	—
PQL_MASTLM	100	100
PQL_MBIOLM	100	100
PQL_MBYTLM	100,000	48,000
PQL_MDIOLM	100	100
PQL_MENQLM	300	200
PQL_MFILLM	100	100
PQL_MPRCLM	10	8
PQL_MWSDEFAULT	1,024	512

[1]If you have installed other software that uses global pages or global sections, you might need a higher minimum value. When you boot your system and DECwindows Motif starts, the values of free GBLPAGES and GBLSECTIONS are checked for your system. If you do not have sufficient values for GBLPAGES and GBLSECTIONS, the DECwindows Motif startup procedure prints a warning and provides a recommended value for these parameters.

(continued on next page)

Table 1–3 (Cont.) Minimum Required System Parameter Values

System Parameter	Alpha Value	VAX Value
PQL_MWSQUOTA	2,048	1,024
PQL_MWSEXTENT	8,192	2,048
CLISYMTBL	512	256
GH_RES_CODE	1,024[2]	—
IMGREG_PAGES	2,000[2]	—
WINDOW_SYSTEM	1	1
NPAGEDYN	1,998,848	999,936
PAGEDYN	600,000	400,000
WSMAX	12,000	4,096

[2]This system parameter is available only on OpenVMS Alpha Version 6.2 (or higher) systems.

Caution

If you do not ensure that your system has the necessary number of global pages and global sections for the installation, the DCL tables can become corrupted.

1.6.4 Additional System Maintenance Procedures

This section explains how to use the System Generation utility (SYSGEN) and the AUTOGEN utility to prepare your system for the *Compaq DECwindows Motif /Hangul for OpenVMS* installation. The AUTOGEN utility uses system configuration data to automatically set system parameters.

Note

The DECwindows Motif installation and startup procedures automatically check for required system parameter values and pass the appropriate values to AUTOGEN. Therefore, in most cases you do not have to check and modify these values manually.

1.6.4.1 Checking System Parameter Values

To check the values of your system parameters, invoke the SYSGEN utility by entering the following command at the DCL prompt:

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

At the SYSGEN prompt, enter the SHOW command to display the value of a system parameter. The following command displays the value for the MAXBUF system parameter:

```
SYSGEN> SHOW MAXBUF
```

After checking the parameters with the SHOW command, enter the EXIT command at the SYSGEN prompt to return to DCL level.

If the current values are less than the values in Table 1–3, increase the system parameter settings. Section 1.6.4.4 describes the procedures for using the AUTOGEN utility to increase these values.

1.6.4.2 Calculating the Number of Free Global Pages and Global Sections

If your system parameter values are equal to or greater than the minimum values specified in Table 1–3, you can continue with the product installation. However, to install and run *Compaq DECwindows Motif /Hangul for OpenVMS* software, you must have sufficient free global pages and global sections for the DECwindows Motif software and the file SYS$LIBRARY:DCLTABLES.EXE.

First, determine how many free global pages and global sections exist on your system and how many are required to reinstall a new version of SYS$LIBRARY:DCLTABLES.EXE. Then, if necessary, use the AUTOGEN utility to increase the values of the GBLPAGES and GBLSECTIONS system parameters.

Enter the following DCL command to determine the number of global pages required for SYS$LIBRARY:DCLTABLES.EXE:

```
$ DIR/SIZE SYS$LIBRARY:DCLTABLES.EXE
```

This command returns the size (in blocks) of the file SYS$LIBRARY:DCLTABLES.EXE. As an approximation, use this figure as the number of global pages needed for the file.

Enter the WRITE command with the F$GETSYI lexical function to find the number of contiguous free global pages and the number of free global sections. The following example shows how to obtain this information at your terminal, which is the default for SYS$OUTPUT:

```
$ WRITE SYS$OUTPUT F$GETSYI("CONTIG_GBLPAGES") Return
15848
$ WRITE SYS$OUTPUT F$GETSYI("FREE_GBLSECTS") Return
24
```

See Table 1–4 to determine whether the number of contiguous free global pages and the number of free global sections is sufficient. If these values are not sufficient to continue with the installation, then see Section 1.6.4.4, which describes the procedures for increasing these values using the AUTOGEN utility.

Table 1–4 Required Number of Contiguous Free Global Pages and Free Global Sections

System Resource	Alpha Value	VAX Value
CONTIG_GBLPAGES	2,900	3,100
FREE_GBLSECTS	17	15

1.6.4.3 Setting the Size of the Page File

In order for DECwindows Motif to run with acceptable performance, the page file must be large enough to handle the virtual memory requirements of your system. The optimal size of the page file depends on many factors, such as the amount of physical memory on the system and the application work load.

As a general rule, the page file size should be at least 75,000 blocks on OpenVMS Alpha systems and 50,000 blocks on OpenVMS VAX systems. However, these sizes may be too small on systems where a large number of applications are run. On a heavily loaded system it may be possible to achieve large performance improvements by increasing the size of the page file by a factor of two or more.

Normally you should run AUTOGEN with feedback and let AUTOGEN calculate the size of the page file based on the usage pattern on your system. To run AUTOGEN with feedback, enter the following DCL command:

```
$ @SYS$UPDATE:AUTOGEN SAVPARAMS REBOOT FEEDBACK
```

You can also increase the size of the page file by running the SYSGEN utility or by invoking the command procedure SYS$UPDATE:SWAPFILES.COM.

For more information about setting the size of the page file and running AUTOGEN, see the *Guide to Setting Up an OpenVMS System*. For more information about performance tuning in general, see the *Guide to OpenVMS Performance Management*.

1.6.4.4 Changing System Parameter Values Using the AUTOGEN Utility

Use the AUTOGEN utility to change system parameters. AUTOGEN automatically adjusts values for parameters that are associated with the values you reset manually. To change system parameters with AUTOGEN, edit the file SYS$SYSTEM:MODPARAMS.DAT.

To change a parameter value listed in this file, delete the current value associated with that parameter and enter the new value.

To add a new parameter, add a line to the file and include both the name of the parameter and its value. For example:

```
MIN_MAXBUF = 8192
```

To make incremental adjustments to parameters, such as global pages and global sections, use ADD_. The following example increases the global pages value by 30,000:

```
ADD_GBLPAGES = 30000
```

Table 1–5 lists the system parameters that you need to adjust incrementally.

Table 1–5 Recommended System Parameter Values to Use with the ADD_ Option

System Parameter	Alpha Increment	VAX Increment
SYSMWCNT	—	235
GBLSECTIONS	280	140
GBLPAGES	92,000	30,000
GBLPAGFIL	768	5,000
NPAGEDYN	300,000	500,000
PAGEDYN	180,000	100,000

After you enter all your changes, exit from the file and execute the AUTOGEN utility to recalculate your system parameters. Enter the following command to recalculate your system parameters and reboot the system:

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

When you specify REBOOT, the AUTOGEN utility performs an automatic system shutdown and then reboots the system. Any users logged in to the system are immediately disconnected during the shutdown. The automatic reboot puts the new parameter values into effect.

For details about using AUTOGEN, see the section about the AUTOGEN utility in the *OpenVMS System Manager's Manual* and the AUTOGEN section in *OpenVMS System Management Utilities Reference Manual*.

1.6.5 Backing Up Your System Disk

Compaq recommends that you back up your system disk before you install any software. At the beginning of the installation, the installation procedure asks whether your system disk is backed up. Use the backup procedures that are established at your site. For details about performing a system disk backup, see the section on the Backup utility in the *OpenVMS System Management Utilities Reference Manual*.

1.6.6 Notifying Other Users

Inform users on the system that you plan to install a product and that they must log out during the installation. To make sure that you are the only user logged in to the system, follow these steps:

1. Notify current users to log out. Enter the following command at the DCL prompt:

```
$ REPLY/ALL/BELL/SHUTDOWN -
_$ "Log out for DECwindows Hangul installation, please..."
```

2. Enter the following command at the DCL prompt to prevent nonprivileged users from logging in to the system:

```
$ SET LOGINS/INTERACTIVE=0
```

If possible, give users an estimated time when they can log in to the system again.

2

Using the POLYCENTER Software Installation Utility (OpenVMS Alpha)

This chapter describes how to install and configure *Compaq DECwindows Motif /Hangul for OpenVMS* software using the POLYCENTER Software Installation utility on Alpha. The *Compaq DECwindows Motif /Hangul for OpenVMS* product supports POLYCENTER Software installations using the Digital Command Language (DCL) interface.

This chapter presents information about the following topics:

- Section 2.1, Accessing Help Information
- Section 2.2, Extracting and Printing the Product Release Notes
- Section 2.3, Installing the Software
- Section 2.4, Recovering from Errors

Refer to the *OpenVMS System Manager's Manual* for complete details about installing and managing software products on your system. In addition to getting started information, the *OpenVMS System Manager's Manual* also provides information about several useful topics, such as:

- Removing installed products
- Reconfiguring installed products
- Copying software kits to new locations
- Retrieving product information
- Discussing differences between the POLYCENTER Software Installation utility and the VMSINSTAL procedure

Refer to Section 1.4 for information about prerequisite software and licenses.

Caution

If you do not have a satisfactory backup copy of your system disk, do not attempt to install *Compaq DECwindows Motif /Hangul for OpenVMS* software. Back up the system disk (as described in the OpenVMS upgrade and installation supplement for your Alpha or VAX processor) before you install *Compaq DECwindows Motif /Hangul for OpenVMS* software.

Before beginning the installation procedure, review Chapter 1 for information about installation preparations and requirements.

2.1 Accessing Help Information

Online help is available with the installation utility for all PRODUCT commands and qualifiers. For help on a specific command, enter the DCL command HELP followed by the command and product name.

Refer to the following documents for information about tasks and PRODUCT commands and qualifiers:

- *OpenVMS System Manager's Manual*
- *OpenVMS System Management Utilities Reference Manual*
- *OpenVMS DCL Dictionary*

2.2 Extracting and Printing the Product Release Notes

Before you begin the installation procedure, you should read the product's release notes. To extract a copy of the *Compaq DECwindows Motif for OpenVMS Release Notes*, define PCSI$SOURCE to point to the location (device name and directory) of the PCSI kit. Then enter the PRODUCT EXTRACT RELEASE_NOTES command followed by the product name, DWMOTIF-UI-HANGUL, at the DCL prompt.

For example:

```
$ DEFINE PCSI$SOURCE DKA400:[PCSI_ALPHA_DWMOTIF126]
$ PRODUCT EXTRACT RELEASE_NOTES DWMOTIF-UI-HANGUL
```

Once you extract the release notes to a file, you can print the file. Note that you do not need to install the product before you extract the release notes.

2.3 Installing the Software

Important

If you are installing *Compaq DECwindows Motif /Hangul for OpenVMS* software on an OpenVMS Version 7.1 or Version 6.2 system, you must install an ECO for the POLYCENTER Software Installation utility before installing the DECwindows Motif software. See the *Guide to the Compaq DECwindows Motif for OpenVMS CD–ROM* for details about this ECO. See Section 1.5 for more information.

The sections that follow take you through the stages of installing your *Compaq DECwindows Motif /Hangul for OpenVMS* software using the POLYCENTER Software Installation utility.

Refer to Chapter 1 for information about account quotas, disk space, and system parameters.

Refer to the *OpenVMS System Manager's Manual* for complete information about responding to questions that the POLYCENTER Software Installation utility asks during product installation. For example, when you respond to questions, you can do the following:

- Enter a value and press the Return key to select options.
- Press the Return key to accept default values.
- Confirm your responses.

  After you respond to questions by selecting options or accepting default values, the installation utility displays a summary of your answers.

  Then a question is displayed asking whether you are satisfied with your answers and whether you want to continue with the installation. If you decide to change your responses, type No and press the Return key. You can then either reenter your responses or answer No and exit from the installation utility.
- Stop the installation by pressing Ctrl/Y.

  Note that this option is not recommended.

2.3.1 Starting the Installation

To start the POLYCENTER Software Installation utility, enter the following commands at the DCL prompt:

```
$ DEFINE PCSI$SOURCE device:[dir]
```

where *device* and *dir* are the names of the device and directory of the kit.

Next, invoke the POLYCENTER Software Installation utility:

```
$ PRODUCT INSTALL DWMOTIF-UI-HANGUL
```

2.3.2 The Installation Dialog

The installation dialog begins by displaying the name of the product which PCSI is installing. You are then asked to verify that you wish to continue with the installation. The dialog continues with a display of product name, copyright, and Product Authorization Key (PAK) information.

```
The following product has been selected:
    DEC AXPVMS DWMOTIF_UI_HANGUL V1.2-6    Layered Product

Do you want to continue? [YES]

Configuration phase starting ...

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

DEC AXPVMS DWMOTIF_UI_HANGUL V1.2-6: DECwindows Motif /HANGUL

    (c) 1988, 2001 Compaq Computer Corporation

    Compaq Computer Corporation

    This product uses the PAK: DW-MOTIF and DW-MOTIF-UI-HANGUL

* This product does not have any configuration options.
```

2.3.2.1 Execution Dialog

During the execution phase, the installation utility begins by displaying the names of all products it will install or remove. This is followed by an indication of the procedure's progress.

Note

During the execution phase, a check is made for DECwindows Motif support files. If these files are not available, the dialog may ask if you want to continue.

```
Execution phase starting ...

The following product will be installed to destination:
    DEC AXPVMS DWMOTIF_UI_HANGUL V1.2-6    DISK$SYSTEM:[VMS$COMMON.]

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

2.3.2.2 Reviewing Final Installation Notes

If the installation is successful, the dialog displays a list of all products installed and removed. Finally, the procedure displays final installation notes for the DECwindows Motif product.

```
...100%

The following product has been installed:
    DEC AXPVMS DWMOTIF_UI_HANGUL V1.2-6    Layered Product

DEC AXPVMS DWMOTIF_UI_HANGUL V1.2-6: DECwindows Motif /HANGUL

    This product requires the following SYSGEN parameters:
        GBLPAGES add 2900

    This product requires the following SYSGEN parameters:
        GBLSECTIONS add 17

    Installation Verification Procedure can be run after reboot.

    Run the Installation Verification Procedure (IVP) after the installation
    is completed and the system is rebooted.  The IVP is located in the
    following directory: SYS$TEST:DECW$IVP_KO_KR.COM.
```

```
Installation of DECwindows Motif /HANGUL for OpenVMS AXP V1.2-6 is now complete.


Check whether this product have the following PAKs registerd and loaded.

             PAK Name
             DW-MOTIF
             DW-MOTIF-UI-HANGUL

These are required to run any DECwindows Motif /HANGUL for OpenVMS
application.

If your system is already running DECwindows Motif, restart DECwindows
Motif with the following DCL command:
        $@SYS$MANAGER:DECW$STARTUP RESTART

If your system has not run DECwindows Motif yet, start DECwindows
Motif with the following DCL command:
        $@SYS$MANAGER:DECW$STARTUP
```

2.4 Recovering from Errors

An error during installation can occur if one or more of the following conditions exists:

- The operating system version is incorrect.
- The prerequisite software version is incorrect.
- Quotas necessary for successful installation are inadequate.
- Process quotas required by the installation utility are inadequate.
- The OpenVMS Help library is currently in use.

For descriptions of the error messages generated by these conditions, see the documents listed in the *Associated Documents* section in the Preface. These documents may help you diagnose errors and decide what corrective actions to take.

If the installation procedure fails for any reason, the POLYCENTER Software Installation utility displays a message similar to the following:

```
%PCSIUI-INSFAIL, The installation of DECwindows Motif Version 1.2-6 for
OpenVMS has failed.
```

If the installation fails, fix the problem and restart the installation procedure.

3

Using the VMSINSTAL Procedure (OpenVMS VAX)

This chapter explains how to install *Compaq DECwindows Motif /Hangul for OpenVMS* software using the VMSINSTAL procedure on VAX systems. Included is a step-by-step description of the installation procedure, information about error recovery, and instructions for accessing the release notes.

Using the VMSINSTAL procedure, the *Compaq DECwindows Motif /Hangul for OpenVMS* installation takes approximately 15 minutes, depending on the processor type. The VMSINSTAL procedure installs the *Compaq DECwindows Motif /Hangul for OpenVMS* product on your system disk.

Note

A Product Authorization Key (PAK) for *Compaq DECwindows Motif /Hangul for OpenVMS* must be registered and loaded before starting the *Compaq DECwindows Motif /Hangul for OpenVMS* installation.

Caution

If you do not have a satisfactory backup copy of your system disk, do not attempt to install *Compaq DECwindows Motif /Hangul for OpenVMS* software. Back up the system disk (as described in the OpenVMS upgrade and installation supplement for your VAX processor) before you install *Compaq DECwindows Motif /Hangul for OpenVMS* software.

Before beginning the installation procedure, review Chapter 1 for information about installation preparations and requirements.

This chapter presents information about the following topics:

- Section 3.1, Installation Procedure Requirements
- Section 3.2, Installation Procedure
- Section 3.3, Recovering from Errors
- Section 3.4, Accessing the Release Notes

3.1 Installation Procedure Requirements

This section discusses the requirements for installing your *Compaq DECwindows Motif /Hangul for OpenVMS* VAX software using the VMSINSTAL installation procedure.

Refer to Section 1.6 for information on requirements common to both VMSINSTAL and PCSI installations.

Prepare to install *Compaq DECwindows Motif /Hangul for OpenVMS* software by logging in to a privileged account, such as the system manager (SYSTEM) account. See Section 3.1.1 for the prerequisite privileges. Although Compaq prefers that you perform the installation using the operator console or other hardcopy terminal, you can perform the installation from a DECterm window.

3.1.1 Process Privileges

To install *Compaq DECwindows Motif /Hangul for OpenVMS* software, you must be logged in to an account that has the SETPRV privilege or the following privileges:

- CMKRNL
- WORLD
- SYSPRV

The installation procedures turn off the BYPASS privilege at the start of the installation and turn it back on when the installation is completed.

3.1.2 Using an Alternate Working Device

You can use the alternate working device (AWD) option to specify another disk to temporarily store the files while they are being unpacked from the save sets on the distribution media. Once the save sets are unpacked, the installation procedure adds or replaces the files that are necessary for the installation of *Compaq DECwindows Motif /Hangul for OpenVMS* software from the AWD to the system disk.

If this installation is to upgrade an existing DECwindows Motif environment, then the AWD option allows you to perform an installation with fewer free blocks on the system disk than are otherwise required.

The installation procedure creates a temporary working directory either on the AWD device or by default in the following location:

SYS$SYSROOT:[SYSUPD.*facunvvv*]

If you use the AWD option, you can specify a directory. Specifying a directory is optional, but the following guidelines apply:

- If you specify an existing directory, the installation procedure creates a working directory as a subdirectory within the directory that you specify (for example, [WORK.*facunvvv*]). The installation procedure deletes the working subdirectory after the installation is completed.
- If you do not specify a directory, the installation procedure creates a working directory on the specified device with a directory specification of [000000.*facunvvv*]. The installation procedure deletes the working directory after the installation is completed.
- If you specify a nonexistent directory, the installation procedure creates both the specified directory and a working directory as subdirectories within the directory that you specify. The installation procedure deletes only the working directory and not the originally specified directory after the installation is completed. You must delete the specified directory manually.

Use the following format to invoke the VMSINSTAL procedure and specify the AWD option:

```
$ @SYS$UPDATE:VMSINSTAL facunvvv dkcu OPTIONS N,AWD=ddcu:[dir]
```

Use the following definitions for the variables in the command line:

- For *facunvvv*, supply the product name and version number.

  For the *Compaq DECwindows Motif /Hangul for OpenVMS* installation, the value of *facunvvv* is DWMV_KO_KRU6012.
- For *dkcu*, give the device name of the source drive that holds the distribution media.
- For *ddcu*, give the device name of the alternate working device.
- For *dir*, specify the name of the directory on the alternate working device where the product subdirectory will be created. The default is [000000].

For example, to install the *Compaq DECwindows Motif /Hangul for OpenVMS* product from the compact disc onto an OpenVMS VAX system using DKA2 as the alternate working device, enter the following command:

```
$ @SYS$UPDATE:VMSINSTAL DWMV_KO_KRU6012 source-drive -
_$ OPTIONS N,AWD=DKA2:
```

3.1.3 Using the Distributed File Service

You can specify a temporary working directory on a disk that uses the Distributed File Service (DFS).

If you use a DFS-mounted disk as your alternate working device, the installation procedure erroneously reports that there are –1 free blocks on the alternate working device. This error occurs because the DFS client (the installation procedure, in this case) cannot determine the amount of free disk space on the DFS-mounted disk.

Before using a DFS-mounted disk, manually determine its free disk space. Log in to the system on which the disk is mounted, and enter the SHOW DEVICE command as follows:

```
$ SHOW DEVICE
```

3.2 Installation Procedure

The *Compaq DECwindows Motif /Hangul for OpenVMS* installation procedure consists of a series of questions and informational messages. Enter a question mark (?) for help at any time during the installation. See Appendix B for a sample VMSINSTAL installation of DECwindows Motif on an OpenVMS VAX system.

To stop the installation procedure, press Ctrl/Y. When you press Ctrl/Y, the installation procedure deletes all files created up to that point and then exits. You can then restart the installation.

Note

This option is not recommended.

3.2.1 Product and Device Names

During the installation, you must tell the system what product is being installed and which drive contains the distribution media. Refer to a product with its facility name and version; refer to a drive with its device name. Use the following format to enter product and device names:

- *facunvvv*

  Represents the facility name and version number of the product being installed, also known as the installation name. The following table explains the format of *facunvvv*.

Variable	Definition
fac	Product name code (1 to 36 alphanumeric characters)
u	Update character ''u'' (1 character)
n	Update version number (1 digit)
vvv	Major version number (3 digits)

  For the *Compaq DECwindows Motif /Hangul for OpenVMS* installation, use the installation name DWMV_KO_KRU6012.

- *ddcu*

Specifies the device name of the source drive that holds the distribution media.

For additional information about device names on your system, see the upgrade and installation supplement for your VAX processor.

3.2.2 Invoking the VMSINSTAL Procedure

To start the installation, invoke the VMSINSTAL command procedure from a privileged account, such as the SYSTEM account. The VMSINSTAL.COM file is located in the SYS$UPDATE directory.

When the system prompts you with a question during the installation procedure, the default answer is often listed in brackets ([ ]).

Perform the following steps to run the VMSINSTAL procedure and install *Compaq DECwindows Motif /Hangul for OpenVMS* software:

1. Locate the *Compaq DECwindows Motif /Hangul for OpenVMS* distribution media.
2. If your system is not already running, start up the system and log in to a privileged account, such as the system manager (SYSTEM) account.
3. Place the distribution media in the source drive. If your *Compaq DECwindows Motif /Hangul for OpenVMS* distribution kit contains more than one volume, place the first volume in the drive. During the installation procedure, you will be prompted to load the next volume. The paper labels on the media indicate the order in which you load them.
4. Start the VMSINSTAL procedure. On the command line, specify the product name (that is, the facility name): DWMV_KO_KRU6012 for OpenVMS VAX systems.

   Specify OPTIONS N to access the release notes, which are included in your media kit. The *Compaq DECwindows Motif for OpenVMS Release Notes* can be displayed or printed before the installation begins. Enter the following command at the DCL prompt:

   ```
   $ @SYS$UPDATE:VMSINSTAL DWMV_KO_KRU6012 ddcu: OPTIONS N
   ```

   For *ddcu*, specify the device name of the source drive that holds the distribution media. See Section 3.2.1 for more information about the format of product and device names. Also, see the OpenVMS upgrade and installation supplement for your VAX processor.

   For example, if you install *Compaq DECwindows Motif /Hangul for OpenVMS* from a magnetic tape cartridge in drive MUA0:, enter the following command to invoke the VMSINSTAL command procedure:

   ```
   $ @SYS$UPDATE:VMSINSTAL DWMV_KO_KRU6012 MUA0: OPTIONS N
   ```

   If you install *Compaq DECwindows Motif /Hangul for OpenVMS* using the alternate working device (AWD) option described in Section 3.1.2, invoke the VMSINSTAL command procedure as follows:

   ```
   $ @SYS$UPDATE:VMSINSTAL DWMV_KO_KRU6012 ddcu: OPTIONS N,AWD=ddcu:[dir]
   ```

   The first instance of *ddcu* is the device name of the source drive that holds the distribution media. The second instance of *ddcu* is the device name of the AWD, which is the target device. The variable *dir* is the name of the directory on the alternate working device in which the product subdirectory is created. The default directory is [000000].

For example, if you are installing *Compaq DECwindows Motif /Hangul for OpenVMS* from a magnetic tape cartridge in drive MUA0: using alternate working device DUA2: and directory [INSTALL], enter the following command:

```
$ @SYS$UPDATE:VMSINSTAL DWMV_KO_KRU6012 MUA0: OPTIONS N,AWD=DUA2:[INSTALL]
```

If the command to execute the VMSINSTAL procedure fails, check to see if any of the following conditions occurred:

- You entered the product name incorrectly. VMSINSTAL displays the following message:

  ```
  %VMSINSTAL-E-NOPRODS, None of the specified products were found
  ```

- You specified an incorrect name for the source drive. VMSINSTAL displays an ‘‘invalid device’’ error message and prompts you until you enter the name of a source device that exists on the system. Remember to enter a colon (:) after the device name.

The VMSINSTAL procedure displays messages similar to the following:

```
        VAX/VMS Software Product Installation Procedure V5.5-2

It is 26-MAR-2000 at 08:02

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

3.2.3 Confirming System Backup

The VMSINSTAL procedure asks the following question:

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

If you made a backup copy of your system disk, press the Return key and proceed to Section 3.2.4.

If you did not make a backup copy of the system disk, do the following:

1. Enter No and press the Return key. The VMSINSTAL procedure exits and returns you to DCL level.
2. Back up the system disk as described in the OpenVMS upgrade and installation supplement for your VAX processor.
3. After you make a backup copy of the system disk, restart the installation procedure from step 4 in Section 3.2.2.

3.2.4 Mounting Distribution Media

The VMSINSTAL procedure asks you where you will mount the distribution volumes:

```
* Where will the distribution volumes be mounted:
```

Enter the directory specification in the following format:

```
device-name:[directory]
```

Then the procedure tells you to enter the name of the product (facility name); enter DWMV_KO_KRU6012.

```
Enter the names of the product to be processed from the first
distribution volume set.
* Product: DWMV_KO_KRU6012
```

When the installation begins, the VMSINSTAL procedure displays informational text similar to the following:

```
The following products will be processed:

 DWMV_KO_KRU6 V1.2

  Beginning installation of DWMV_KO_KRU6 Version 1.2 at 10:36

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

3.2.5 Choosing a Release Notes Option

If you specify OPTIONS N during step 4 in Section 3.2.2, the VMSINSTAL procedure prompts you to select a release notes option:

```
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]:
```

Enter the number of the option you want:

- Option 1 displays the release notes on the terminal.
- Option 2 prints the release notes (default).
- Option 3 displays and prints the release notes.
- Option 4 allows you to continue with the installation if you do not want to display or print the release notes.

Note

Compaq strongly recommends that you read the release notes before continuing the installation.

If you choose option 1, the release notes display on the terminal. You are prompted to press Return to continue reading the release notes. If you want to end the display and continue the installation, press Ctrl/C. After you press Ctrl/C, you are asked whether you want to continue with the installation; you are informed that the release notes have been moved to SYS$HELP.

Caution

Do not press Ctrl/Y; if you do, the installation ends.

If you choose option 2 or 3, you are prompted for the name of the print queue. If you do not specify a print queue, the release notes are queued to SYS$PRINT by default.

3.2.6 Continuing the Installation

After the VMSINSTAL procedure processes your release notes option, the following message is displayed:

```
* Do you want to continue the installation [No]?
```

If you want to continue with the installation, enter Yes and press Return. If you want to end the installation, press the Return key.

Regardless of the release notes option you select, the VMSINSTAL procedure copies the release notes to the SYS$HELP directory. See Section 3.4 for information about how to access the release notes once they are copied to the SYS$HELP directory.

```
    *** Installing Compaq DECwindows Motif /Hangul for OpenVMS VAX software ***

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COMPAQ Registered in U.S. Patent and Trademark Office.

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

3.2.7 Choosing Korean Font Files

The installation procedure asks whether you want to install Korean font:

```
          The free disk requirement for installing Hangul fonts is
          about 9000 blocks
          * Do you need to install Hangul font [Y]?
```

Press the Return key to install programming support. The following

3.2.8 Verifying Kit Selections

The components of the kit that you selected now display; you can verify that these choices are correct. A message similar to the following is displayed:

```
        The following parts of the kit will be installed.

        Run-Time Libraries
        CDA support
        Applications
        Programming support
        Motif Examples
        Hangul font

* Is this correct [Y]?
```

Press the Return key if the choices are correct. If you want to change your selections, enter No and press the Return key. You are prompted by the previous questions again, beginning with whether you want to install the entire kit. After you repeat the selection procedure and are satisfied with your selections, enter Yes and press the Return key.

3.2.9 Verifying License Registration

The installation procedure continues and displays license information similar to the following:

```
A registered and loaded product authorization keys for
      DW-MOTIF and DW-MOTIF-UI-HANGUL
is required to run any DECwindows Motif /Hangul for OpenVMS application.
If you answer NO to the next questions, the installation of DECwindows
Motif for OpenVMS will be terminated.

      Product:      DW-MOTIF-UI-HANGUL
      Producer:     DEC
      Version:
      Release Date:

Does this product have an authorization key registered and loaded? y

      Product:      DW-MOTIF
      Producer:     DEC
      Version:
      Release Date:

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

Enter Yes to continue with the installation if your authorization key is registered and loaded. If you enter No, the following message is displayed and the installation ends:

```
Installation of DECwindows Motif cannot continue because you do
not have a registered and loaded authorization key.
```

See Section 1.1 for more information about license registration. After you register and load your authorization key, restart the *Compaq DECwindows Motif /Hangul for OpenVMS* installation beginning at step 4 in Section 3.2.2.

3.2.10 Reading Informational Messages

The VMSINSTAL procedure lists the directories that are created and the save sets that are restored. The VMSINSTAL procedure prints out a message indicating that the files will be moved to their target directories.

```
%VMSINSTAL-I-SYSDIR, This product creates system disk directory VMI$ROOT:[DECW$DEFAULTS.SYSTEM.NLS].
%VMSINSTAL-I-SYSDIR, This product creates system disk directory VMI$ROOT:[DECW$DEFAULTS.SYSTEM.NLS.XIMP].
%VMSINSTAL-I-SYSDIR, This product creates system disk directory VMI$ROOT:[DECW$DEFAULTS.SYSTEM.NLS.XIMP.C].
%VMSINSTAL-I-SYSDIR, This product creates system disk directory VMI$ROOT:[DECW$DEFAULTS.SYSTEM.NLS.XIMP.DA].
...
...
%VMSINSTAL-I-MOVEFILES, Files will now be moved to their target directories...
 PostInstall I18N procedure
```

You are notified that you should run the Installation Verification Procedure (IVP) after the installation is completed and after you start the DECwindows Motif software.

```
The Installation Verification Procedure (IVP) should be run after the
installation has been completed and DECwindows Motif has been restarted.
The IVP can be found in SYS$TEST:DECW$IVP.COM.
```

3.2.11 Completing the Installation Procedure

When the installation is completed, a message similar to the following is displayed:

```
Installation of DECwindows Motif /Hangul for OpenVMS VAX V1.2-6 is now complete.

If your system is already running DECwindows Motif, restart DECwindows
Motif with the following DCL command:
        $@SYS$MANAGER:DECW$STARTUP RESTART

If your system is NOT already running DECwindows Motif, start DECwindows
Motif with the following DCL command:
        $@SYS$MANAGER:DECW$STARTUP
Installation of DWMV_KO_KRU6 V1.2 completed at 16:16

VMSINSTAL procedure done at 16:16
```

These messages indicate that the installation procedure completed successfully.

Note

If you upgrade your system with a higher version of OpenVMS at a later time, you might need to reinstall the *Compaq DECwindows Motif /Hangul for OpenVMS* software.

3.3 Recovering from Errors

Errors can occur during the installation if any of the following conditions exist:

- Incorrect OpenVMS operating system version.
- Insufficient quotas.
- Insufficient values for system parameters.
- OpenVMS help library is currently in use.
- Product license is not registered and loaded.

For descriptions of the error messages generated by these conditions, see the documents listed in the Associated Documents section in the Preface. These documents may help you diagnose errors and decide what corrective actions to take.

3.4 Accessing the Release Notes

During the installation, the VMSINSTAL procedure copies the *Compaq DECwindows Motif for OpenVMS Release Notes* to the SYS$HELP:DWM_KO_KR_126.RELEASE_NOTES file. Once you return to DCL level, you can print this file or display it at a terminal. Refer to Section 3.2.5 for more information about accessing the release notes.

A
POLYCENTER Software Installation Utility Sample Installations

```
$ PRODUCT INSTALL DWMOTIF_UI_HANGUL/SOURCE=SYS$SYSDEVICE:[KIT]

The following product has been selected:
    DEC AXPVMS DWMOTIF_UI_HANGUL V1.2-6    Layered Product

Do you want to continue? [YES]

Configuration phase starting ...

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

DEC AXPVMS DWMOTIF_UI_HANGUL V1.2-6: DECwindows Motif /HANGUL

    (c) 1988, 2001 Compaq Computer Corporation

    Compaq Computer Corporation

    This product uses the PAK: DW-MOTIF and DW-MOTIF-UI-HANGUL

* This product does not have any configuration options.

Execution phase starting ...

The following product will be installed to destination:
    DEC AXPVMS DWMOTIF_UI_HANGUL V1.2-6    DISK$SYSTEM:[VMS$COMMON.]

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

The following product has been installed:
    DEC AXPVMS DWMOTIF_UI_HANGUL V1.2-6    Layered Product

DEC AXPVMS DWMOTIF_UI_HANGUL V1.2-6: DECwindows Motif /HANGUL

    This product requires the following SYSGEN parameters:
        GBLPAGES add 2900

    This product requires the following SYSGEN parameters:
        GBLSECTIONS add 17

    Installation Verification Procedure can be run after reboot.

    Run the Installation Verification Procedure (IVP) after the installation
    is completed and the system is rebooted.  The IVP is located in the
    following directory: SYS$TEST:DECW$IVP_KO_KR.COM.


    Installation of DECwindows Motif /HANGUL for OpenVMS AXP V1.2-6 is now complete.


    Check whether this product have the following PAKs registerd and loaded.

                PAK Name
                DW-MOTIF
                DW-MOTIF-UI-HANGUL

    These are required to run any DECwindows Motif /HANGUL for OpenVMS
    application.
```

```
If your system is already running DECwindows Motif, restart DECwindows
Motif with the following DCL command:
        $@SYS$MANAGER:DECW$STARTUP RESTART

If your system has not run DECwindows Motif yet, start DECwindows
Motif with the following DCL command:
        $@SYS$MANAGER:DECW$STARTUP
```

B

VMSINSTAL Sample Installation

```
$ @SYS$UPDATE:VMSINSTAL DWMV_KO_KRU6012 DKB300:[KIT]

        OpenVMS VAX Software Product Installation Procedure V7.2

It is 8-MAY-2001 at 16:06.

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:

  DWMV_KO_KRU6 V1.2

        Beginning installation of DWMV_KO_KRU6 V1.2 at 16:06

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

        *** Installing DECwindows Motif /Hangul for OpenVMS VAX V1.2-6 Software ***

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 Installing I18N component

  A registered and loaded product authorization keys for
        DW-MOTIF and DW-MOTIF-UI-HANGUL
  is required to run any DECwindows Motif /Hangul for OpenVMS application.
  If you answer NO to the next questions, the installation of DECwindows
  Motif for OpenVMS will be terminated.

        Product:      DW-MOTIF-UI-HANGUL
        Producer:     DEC
        Version:
        Release Date:

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

        Product:      DW-MOTIF
        Producer:     DEC
        Version:
        Release Date:

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

The free disk requirement for installing Hangul fonts is
about 9000 blocks
* Do you need to install Hangul font [Y]?

        The following parts of the kit will be installed.
```

```
        Run-Time Libraries
        CDA support
        Applications
        Programming support
        Motif Examples
        Hangul font

* Is this correct [Y]?

        No further questions will be asked.

%VMSINSTAL-I-SYSDIR, This product creates system disk directory  VMI$ROOT:[DECW$DEFAULTS.SYSTEM.NLS].
%VMSINSTAL-I-SYSDIR, This product creates system disk directory  VMI$ROOT:[DECW$DEFAULTS.SYSTEM.NLS.XIMP].
%VMSINSTAL-I-SYSDIR, This product creates system disk directory  VMI$ROOT:[DECW$DEFAULTS.SYSTEM.NLS.XIMP.C].
%VMSINSTAL-I-SYSDIR, This product creates system disk directory  VMI$ROOT:[DECW$DEFAULTS.SYSTEM.NLS.XIMP.DA].
%VMSINSTAL-I-SYSDIR, This product creates system disk directory  VMI$ROOT:[DECW$DEFAULTS.SYSTEM.NLS.XIMP.DE].
%VMSINSTAL-I-SYSDIR, This product creates system disk directory  VMI$ROOT:[DECW$DEFAULTS.SYSTEM.NLS.XIMP.EL].
%VMSINSTAL-I-SYSDIR, This product creates system disk directory  VMI$ROOT:[DECW$DEFAULTS.SYSTEM.NLS.XIMP.EN].
%VMSINSTAL-I-SYSDIR, This product creates system disk directory  VMI$ROOT:[DECW$DEFAULTS.SYSTEM.NLS.XIMP.ES].
%VMSINSTAL-I-SYSDIR, This product creates system disk directory  VMI$ROOT:[DECW$DEFAULTS.SYSTEM.NLS.XIMP.FI].
%VMSINSTAL-I-SYSDIR, This product creates system disk directory  VMI$ROOT:[DECW$DEFAULTS.SYSTEM.NLS.XIMP.FR].
%VMSINSTAL-I-SYSDIR, This product creates system disk directory  VMI$ROOT:[DECW$DEFAULTS.SYSTEM.NLS.XIMP.IS].
%VMSINSTAL-I-SYSDIR, This product creates system disk directory  VMI$ROOT:[DECW$DEFAULTS.SYSTEM.NLS.XIMP.IT].
%VMSINSTAL-I-SYSDIR, This product creates system disk directory  VMI$ROOT:[DECW$DEFAULTS.SYSTEM.NLS.XIMP.JA_JP_EUC].
%VMSINSTAL-I-SYSDIR, This product creates system disk directory  VMI$ROOT:[DECW$DEFAULTS.SYSTEM.NLS.XIMP.JA_JP_JIS].
%VMSINSTAL-I-SYSDIR, This product creates system disk directory  VMI$ROOT:[DECW$DEFAULTS.SYSTEM.NLS.XIMP.JA_JP_DECKANJI]
.
%VMSINSTAL-I-SYSDIR, This product creates system disk directory  VMI$ROOT:[DECW$DEFAULTS.SYSTEM.NLS.XIMP.JA_JP_SJIS].
%VMSINSTAL-I-SYSDIR, This product creates system disk directory  VMI$ROOT:[DECW$DEFAULTS.SYSTEM.NLS.XIMP.KO].
%VMSINSTAL-I-SYSDIR, This product creates system disk directory  VMI$ROOT:[DECW$DEFAULTS.SYSTEM.NLS.XIMP.NL].
%VMSINSTAL-I-SYSDIR, This product creates system disk directory  VMI$ROOT:[DECW$DEFAULTS.SYSTEM.NLS.XIMP.NO].
%VMSINSTAL-I-SYSDIR, This product creates system disk directory  VMI$ROOT:[DECW$DEFAULTS.SYSTEM.NLS.XIMP.PL].
%VMSINSTAL-I-SYSDIR, This product creates system disk directory  VMI$ROOT:[DECW$DEFAULTS.SYSTEM.NLS.XIMP.PT].
%VMSINSTAL-I-SYSDIR, This product creates system disk directory  VMI$ROOT:[DECW$DEFAULTS.SYSTEM.NLS.XIMP.RU].
%VMSINSTAL-I-SYSDIR, This product creates system disk directory  VMI$ROOT:[DECW$DEFAULTS.SYSTEM.NLS.XIMP.SH].
%VMSINSTAL-I-SYSDIR, This product creates system disk directory  VMI$ROOT:[DECW$DEFAULTS.SYSTEM.NLS.XIMP.SK].
%VMSINSTAL-I-SYSDIR, This product creates system disk directory  VMI$ROOT:[DECW$DEFAULTS.SYSTEM.NLS.XIMP.SV].
%VMSINSTAL-I-SYSDIR, This product creates system disk directory  VMI$ROOT:[DECW$DEFAULTS.SYSTEM.NLS.XIMP.TR].
%VMSINSTAL-I-SYSDIR, This product creates system disk directory  VMI$ROOT:[DECW$DEFAULTS.SYSTEM.NLS.XIMP.ZH].
%VMSINSTAL-I-SYSDIR, This product creates system disk directory  VMI$ROOT:[DECW$DEFAULTS.SYSTEM.NLS.XIMP.ZH_TW].
%VMSINSTAL-I-SYSDIR, This product creates system disk directory  VMI$ROOT:[SYSUPD.DECWMI18N126].
%VMSINSTAL-I-RESTORE, Restoring product save set B ...

        =======================================================
                Saving standard images for en_us_rtl ...
        =======================================================

%COPY-S-COPIED, VMI$ROOT:[SYSLIB]DECW$DXMLIBSHR.EXE;5 copied to VMI$ROOT:[SYSUPD.DECWMI18N126]DECW$DXMLIBSHR.EXE;5 (951
blocks)
%COPY-S-COPIED, VMI$ROOT:[SYSLIB]DECW$TERMINALSHR.EXE;5 copied to VMI$ROOT:[SYSUPD.DECWMI18N126]DECW$TERMINALSHR.EXE;5 (
674 blocks)
%COPY-S-COPIED, VMI$ROOT:[SYSLIB]DECW$XMLIBSHR.EXE;5 copied to VMI$ROOT:[SYSUPD.DECWMI18N126]DECW$XMLIBSHR.EXE;5 (1731 b
locks)
%COPY-S-COPIED, VMI$ROOT:[SYSLIB]DECW$XTSHR.EXE;5 copied to VMI$ROOT:[SYSUPD.DECWMI18N126]DECW$XTSHR.EXE;5 (373 blocks)
%VMSINSTAL-I-RESTORE, Restoring product save set C ...

        =======================================================
                Saving standard files for en_us_cda ...
        =======================================================

%COPY-S-COPIED, VMI$ROOT:[CDA$LIBRARY]DEFSTYLE.DDIF;5 copied to VMI$ROOT:[SYSUPD.DECWMI18N126]DEFSTYLE.DDIF;5 (4 blocks)

        =======================================================
                Saving standard images for en_us_cda ...
        =======================================================

%COPY-S-COPIED, VMI$ROOT:[SYSLIB]DDIF$VIEWSHR.EXE;5 copied to VMI$ROOT:[SYSUPD.DECWMI18N126]DDIF$VIEWSHR.EXE;5 (23 block
s)
%VMSINSTAL-I-RESTORE, Restoring product save set D ...
```

```
        =======================================================
                Saving standard files for en_us_apps ...
        =======================================================

%COPY-S-COPIED, VMI$ROOT:[DECW$DEFAULTS.SYSTEM]DECW$MWM.DAT;9 copied to VMI$ROOT:[SYSUPD.DECWMI18N126]DECW$MWM.DAT;9 (16
 blocks)
%COPY-S-COPIED, VMI$ROOT:[DECW$DEFAULTS.SYSTEM]DECW$NOTEPAD.DAT;5 copied to VMI$ROOT:[SYSUPD.DECWMI18N126]DECW$NOTEPAD.D
AT;5 (2 blocks)
%COPY-S-COPIED, VMI$ROOT:[DECW$DEFAULTS.SYSTEM]DECW$NOTEPAD.UID;5 copied to VMI$ROOT:[SYSUPD.DECWMI18N126]DECW$NOTEPAD.U
ID;5 (104 blocks)
%COPY-S-COPIED, VMI$ROOT:[DECW$DEFAULTS.SYSTEM]DECW$PUZZLE.DAT;5 copied to VMI$ROOT:[SYSUPD.DECWMI18N126]DECW$PUZZLE.DAT
;5 (2 blocks)
%COPY-S-COPIED, VMI$ROOT:[DECW$DEFAULTS.SYSTEM]DECW$PUZZLE.UID;5 copied to VMI$ROOT:[SYSUPD.DECWMI18N126]DECW$PUZZLE.UID
;5 (40 blocks)
%COPY-S-COPIED, VMI$ROOT:[DECW$DEFAULTS.SYSTEM]VUE$SYSTEM_PROFILE.VUE$DAT;5 copied to VMI$ROOT:[SYSUPD.DECWMI18N126]VUE$
SYSTEM_PROFILE.VUE$DAT;5 (99 blocks)

        =======================================================
                Saving standard images for en_us_apps ...
        =======================================================

%COPY-S-COPIED, VMI$ROOT:[SYSEXE]DECW$NOTEPAD.EXE;5 copied to VMI$ROOT:[SYSUPD.DECWMI18N126]DECW$NOTEPAD.EXE;5 (97 block
s)
%COPY-S-COPIED, VMI$ROOT:[SYSEXE]DECW$PUZZLE.EXE;5 copied to VMI$ROOT:[SYSUPD.DECWMI18N126]DECW$PUZZLE.EXE;5 (57 blocks)
%VMSINSTAL-I-RESTORE, Restoring product save set E ...

        =======================================================
                Saving standard files for en_us_prgm ...
        =======================================================

%COPY-S-COPIED, VMI$ROOT:[DECW$DEFAULTS.SYSTEM]DECW$UIL_OSF_MOTIF_1_1.WMD;5 copied to VMI$ROOT:[SYSUPD.DECWMI18N126]DECW
$UIL_OSF_MOTIF_1_1.WMD;5 (125 blocks)
%COPY-S-COPIED, VMI$ROOT:[DECW$DEFAULTS.SYSTEM]DECW$UIL_OSF_MOTIF_1_1.WML;5 copied to VMI$ROOT:[SYSUPD.DECWMI18N126]DECW
$UIL_OSF_MOTIF_1_1.WML;5 (145 blocks)
%VMSINSTAL-I-RESTORE, Restoring product save set F ...

        =======================================================
                Saving standard files for en_us_xmpl ...
        =======================================================

%COPY-S-COPIED, VMI$ROOT:[SYSHLP.EXAMPLES.DECW]DECBURGER.C;5 copied to VMI$ROOT:[SYSUPD.DECWMI18N126]DECBURGER.C;5 (97 b
locks)
%COPY-S-COPIED, VMI$ROOT:[SYSHLP.EXAMPLES.DECW]DECBURGER.COM;5 copied to VMI$ROOT:[SYSUPD.DECWMI18N126]DECBURGER.COM;5 (
6 blocks)
%COPY-S-COPIED, VMI$ROOT:[SYSHLP.EXAMPLES.DECW]DECBURGER.UIL;5 copied to VMI$ROOT:[SYSUPD.DECWMI18N126]DECBURGER.UIL;5 (
110 blocks)
%COPY-S-COPIED, VMI$ROOT:[SYSHLP.EXAMPLES.DECW]DECBURGER.UID;5 copied to VMI$ROOT:[SYSUPD.DECWMI18N126]DECBURGER.UID;5 (
72 blocks)
%COPY-S-COPIED, VMI$ROOT:[SYSHLP.EXAMPLES.DECW]HELLOMOTIF.C;5 copied to VMI$ROOT:[SYSUPD.DECWMI18N126]HELLOMOTIF.C;5 (8
blocks)
%COPY-S-COPIED, VMI$ROOT:[SYSHLP.EXAMPLES.DECW]HELLOMOTIF.UIL;5 copied to VMI$ROOT:[SYSUPD.DECWMI18N126]HELLOMOTIF.UIL;5
 (4 blocks)
%COPY-S-COPIED, VMI$ROOT:[SYSHLP.EXAMPLES.DECW]HELLOMOTIF.UID;5 copied to VMI$ROOT:[SYSUPD.DECWMI18N126]HELLOMOTIF.UID;5
 (16 blocks)
%COPY-S-COPIED, VMI$ROOT:[SYSHLP.EXAMPLES.DECW]PERIODIC.C;5 copied to VMI$ROOT:[SYSUPD.DECWMI18N126]PERIODIC.C;5 (37 blo
cks)
%COPY-S-COPIED, VMI$ROOT:[SYSHLP.EXAMPLES.DECW]PERIODIC.DAT;5 copied to VMI$ROOT:[SYSUPD.DECWMI18N126]PERIODIC.DAT;5 (3
blocks)
%COPY-S-COPIED, VMI$ROOT:[SYSHLP.EXAMPLES.DECW]PERIODIC.UIL;5 copied to VMI$ROOT:[SYSUPD.DECWMI18N126]PERIODIC.UIL;5 (71
 blocks)
%COPY-S-COPIED, VMI$ROOT:[SYSHLP.EXAMPLES.DECW]PERIODIC.UID;5 copied to VMI$ROOT:[SYSUPD.DECWMI18N126]PERIODIC.UID;5 (11
2 blocks)

        =======================================================
                Saving standard images for en_us_xmpl ...
        =======================================================
```

```
%COPY-S-COPIED, VMI$ROOT:[SYSHLP.EXAMPLES.DECW]DECBURGER.EXE;5 copied to VMI$ROOT:[SYSUPD.DECWMI18N126]DECBURGER.EXE;5 (
24 blocks)
%COPY-S-COPIED, VMI$ROOT:[SYSHLP.EXAMPLES.DECW]HELLOMOTIF.EXE;5 copied to VMI$ROOT:[SYSUPD.DECWMI18N126]HELLOMOTIF.EXE;5
 (8 blocks)
%COPY-S-COPIED, VMI$ROOT:[SYSHLP.EXAMPLES.DECW]PERIODIC.EXE;5 copied to VMI$ROOT:[SYSUPD.DECWMI18N126]PERIODIC.EXE;5 (16
 blocks)
%VMSINSTAL-I-RESTORE, Restoring product save set G ...

        ==============================================================
                  Checking files in specific directories
        Please delete/modify those files in order to function properly
        ==============================================================

%VMSINSTAL-I-SYSDIR, This product creates system disk directory  VMI$ROOT:[DECW$DEFAULTS.SYSTEM.KO_KR_DECKOREAN].
%VMSINSTAL-I-SYSDIR, This product creates system disk directory  VMI$ROOT:[DECW$DEFAULTS.USER.KO_KR_DECKOREAN].
%VMSINSTAL-I-SYSDIR, This product creates system disk directory  VMI$ROOT:[VUE$LIBRARY.SYSTEM.KO_KR_DECKOREAN].
%VMSINSTAL-I-SYSDIR, This product creates system disk directory  VMI$ROOT:[VUE$LIBRARY.USER.KO_KR_DECKOREAN].
%VMSINSTAL-I-SYSDIR, This product creates system disk directory  VMI$ROOT:[SYSHLP.KO_KR_DECKOREAN].
%VMSINSTAL-I-SYSDIR, This product creates system disk directory  VMI$ROOT:[SYSHLP.EXAMPLES.DECW.KO_KR_DECKOREAN].
%VMSINSTAL-I-SYSDIR, This product creates system disk directory  VMI$ROOT:[SYSLIB.KO_KR_DECKOREAN].
%VMSINSTAL-I-SYSDIR, This product creates system disk directory  VMI$ROOT:[SYSMSG.KO_KR_DECKOREAN].
%VMSINSTAL-I-SYSDIR, This product creates system disk directory  VMI$ROOT:[CDA$LIBRARY.KO_KR_DECKOREAN].
%VMSINSTAL-I-SYSDIR, This product creates system disk directory  VMI$ROOT:[SYSUPD.DECWMI18N126.HANGUL].
%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-RESTORE, Restoring product save set M ...
%VMSINSTAL-I-RESTORE, Restoring product save set N ...

        ==============================================================
                  Checking files in specific directories
        Please delete/modify those files in order to function properly
        ==============================================================

%VMSINSTAL-I-MOVEFILES, Files will now be moved to their target directories...
 PostInstall I18N procedure

346 fonts loaded

Creating sys$common:[sysfont.decw.75dpi]DECW$FONT_DIRECTORY.DAT
Rename EN_US files ...
 PostInstall Hangul procedure
The following fontlist is appended to decw$system_defaults:decw$mwm.dat:
-*-screen-medium-r-normal--*-180-*-*-m-*-ksc5601.1987-1=KSC5601.1987-1
%PURGE-I-FILPURG, SYS$COMMON:[DECW$DEFAULTS.SYSTEM]DECW$MWM.DAT;10 deleted (18 blocks)
%PURGE-I-FILPURG, SYS$COMMON:[DECW$DEFAULTS.SYSTEM]DECW$MWM.DAT;9 deleted (18 blocks)
%PURGE-I-TOTAL, 2 files deleted (36 blocks)

346 fonts loaded

Creating sys$common:[sysfont.decw.75dpi]DECW$FONT_DIRECTORY.DAT

 lang logical has been defined as ko_KR.deckorean
 please edit sys$manager:decw$define_lang.com if you
 want to change the logical to another locale.
 Then run decw$define_lang again

DECwindows Motif /Hangul for OpenVMS
Rename _75REN files ...
Rename _100REN files ...
Rename _CDEREN files ...

  The Installation Verification Procedure (IVP) should be run after the
  installation has been completed and DECwindows Motif has been restarted.
  The IVP can be found in SYS$TEST:DECW$IVP_KO_KR.COM

        Installation of DECwindows Motif /Hangul for OpenVMS VAX V1.2-6 is now complete.
```

```
If your system is already running DECwindows Motif, restart DECwindows
Motif with the following DCL command:
        $@SYS$MANAGER:DECW$STARTUP RESTART

If your system is NOT already running DECwindows Motif, start DECwindows
Motif with the following DCL command:
        $@SYS$MANAGER:DECW$STARTUP
Installation of DWMV_KO_KRU6 V1.2 completed at 16:16

VMSINSTAL procedure done at 16:16
```

C Software Components

If you installed *Compaq DECwindows Motif /Hangul for OpenVMS* using the POLYCENTER Software Installation utility, you can obtain a list of all installed files and the directories and subdirectories into which the files were installed.

To obtain this list, enter the following POLYCENTER Software Installation utility command:

```
$ PRODUCT SHOW OBJECT/product=dwmotif-ui-hangul
```

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