DECwindows Motif Version 1.2–3 for OpenVMS Installation Guide

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January 1995

This manual describes the POLYCENTER Software Installation utility and the VMSINSTAL installation procedure for installing DECwindows Motif Version 1.2–3 for OpenVMS software.

| Revision/Update Information: | This is a new manual. |
|-------------------------------------|--|
| Operating System: | OpenVMS AXP Version 1.5 VMS Version 5.5–2 |
| Software Version: | DECwindows Motif Version 1.2-3 for OpenVMS Alpha DECwindows Motif Version 1.2-3 for OpenVMS VAX |

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Preface

Intended Audience

This manual is intended for anyone who plans to install DECwindows Motif Version 1.2–3 for OpenVMS software.

Document Structure

This manual contains the following chapters and appendixes:

- Chapter 1 discusses how to prepare for installing DECwindows Motif Version 1.2–3 for OpenVMS software.
- Chapter 2 presents the procedure for installing DECwindows Motif Version 1.2–3 for OpenVMS software using the POLYCENTER Software Installation utility. You can optionally use this utility to install DECwindows Motif software on OpenVMS Version 6.1 systems. Note that you must install DECwindows Motif software on OpenVMS 6.2 (or higher) systems using the POLYCENTER Software Installation utility.
- Chapter 3 discusses how to install DECwindows Motif Version 1.2–3 for OpenVMS software using the VMSINSTAL procedure.
- Chapter 4 provides startup procedures. This chapter also includes a sample Installation Verification Procedure (IVP).
- Chapter 5 discusses tuning, customizing the environment, removing unwanted files, and reporting errors.
- Appendix A presents a sample DECwindows Motif installation using the POLYCENTER Software Installation utility on an OpenVMS Alpha system.

- Appendix B shows a sample Product Authorization Key (PAK) registration and a sample product installation using the VMSINSTAL procedure on an OpenVMS VAX system.
- Appendix C lists the software components for the DECwindows Motif Version 1.2–3 for OpenVMS product.

Associated Documents

In addition to this manual, the following documents are useful when installing DECwindows Motif Version 1.2–3 for OpenVMS software:

- DECwindows Motif Version 1.2–3 for OpenVMS Release Notes
- DECwindows Motif Version 1.2–3 for OpenVMS Software Product Description (SPD)
- 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

Conventions

In this manual, every use of OpenVMS Alpha means the OpenVMS Alpha operating system, every use of OpenVMS VAX means the OpenVMS VAX operating system, and every use of OpenVMS means both the OpenVMS Alpha operating system and the OpenVMS VAX operating system.

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

The following conventions are used to identify information specific to OpenVMS Alpha or to OpenVMS VAX:



The Alpha icon denotes the beginning of information specific to OpenVMS Alpha.



The VAX icon denotes the beginning of information specific to OpenVMS VAX.

| • | The diamond symbol denotes the end of a section of information specific to OpenVMS Alpha or to OpenVMS VAX. |
|--------------------------|--|
| The following convention | ons 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.) |
| | 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, if you choose more than one option, you must enclose the choices in parentheses. |
| [] | 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, braces surround a required choice of options; you must choose one of the options listed. |

| boldface text | Boldface text represents the introduction of a new term or the name of an argument, an attribute, or a reason (user action that triggers a callback). |
|----------------|--|
| | Boldface text is also used to show user input in Bookreader versions of the manual. |
| italic text | Italic text emphasizes important information and indicates complete titles of manuals and variables. Variables include information that varies in system messages (Internal error <i>number</i>), in command lines (/PRODUCER= <i>name</i>), and in command parameters in text (where <i>device-name</i> contains up to five alphanumeric characters). |
| UPPERCASE TEXT | Uppercase text indicates a command, the name of a routine, the name of a file, or the abbreviation for a system privilege. |
| - | A hyphen in code examples indicates that additional arguments to the request are provided on the line that follows. |
| 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 DECwindows Motif Version 1.2–3 for OpenVMS software using either the POLYCENTER Software Installation utility or the VMSINSTAL procedure. Your Bill of Materials (BOM) and Indented Bills Report (BIL) specify 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 Digital representative.

Note _

Digital strongly recommends that you read the release notes before proceeding with the installation. The DECwindows Motif Version 1.2–3 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 2.2.1.
- If you use the VMSINSTAL procedure to install the software, see Section 3.1.4.

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 Operating System Software
- Section 1.5, OSF/Motif Release 1.1.3 and XUI Programming Support

- Section 1.6, Saving Customized Bookreader Files
- Section 1.7, Product and Device Names
- Section 1.8, Installation Procedure Requirements

1.1 License Registration

Before you install and run DECwindows Motif Version 1.2–3 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 DECwindows Motif Version 1.2–3 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 DECwindows Motif Version 1.2–3 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 DECwindows Motif Version 1.2–3 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.*

See Appendix B for a sample installation of a PAK.

1.2 Supported Hardware

DECwindows Motif Version 1.2–3 for OpenVMS software can be installed on any supported Alpha or VAX processor. For a complete list of supported hardware, see the DECwindows Motif Version 1.2–3 for OpenVMS Software Product Description (SPD) for OpenVMS systems.

1.3 Prerequisites for the Installation Procedures

Before you can install and configure DECwindows Motif Version 1.2–3 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 Version 6.2 (or higher) OpenVMS VAX Version 6.2 (or higher) | POLYCENTER Software Installation utility |
| OpenVMS Alpha Version 6.1 OpenVMS VAX Version 6.1 | POLYCENTER Software Installation utility or the VMSINSTAL procedure |
| OpenVMS Alpha Version 1.5 through OpenVMS Alpha Version 6.0 | VMSINSTAL procedure |
| VAX VMS Version 5.5–2 through OpenVMS VAX Version 6.0 | VMSINSTAL procedure |

1.4 Required Operating System Software

The DECwindows Motif Version 1.2–3 for OpenVMS software requires OpenVMS Alpha Version 1.5 (or higher) and VMS Version 5.5–2 (or higher) operating systems. If your system is not running one of these versions before you attempt to install DECwindows Motif Version 1.2–3 for OpenVMS, the installation fails.

A minimum of 12MB of memory is required for OpenVMS VAX systems; 16MB of memory is highly recommended. A minimum of 32MB of memory is required for OpenVMS Alpha systems; additional memory is highly recommended.

The OpenVMS operating system provides two subsets of components to support DECwindows Motif Version 1.2–3 for OpenVMS. To use DECwindows Motif Version 1.2–3 for OpenVMS software, your system should be running a version of the OpenVMS system that includes the following components:

DECwindows Motif transports and base-system support

This support is required to install DECwindows Motif Version 1.2–3 for OpenVMS and to run DECwindows Motif Version 1.2–3 for OpenVMS applications. During the installation of OpenVMS, you are prompted to specify whether you want to install this option.

To determine whether this option was installed during the installation of OpenVMS, enter the following command:

\$ DIR SYS\$LIBRARY:DECW\$TRANSPORT COMMON.EXE

Use the DECwindows tailoring utility (DECW\$TAILOR) to tailor on the DECwindows base support files using the DECwindows save sets that are provided with the OpenVMS kit as follows:

\$ RUN SYS\$UPDATE:DECW\$TAILOR.EXE

See Section 5.3.2 for more details about this process.

 DECwindows X11 display server for OpenVMS, fonts, and device drivers, which are necessary to display DECwindows Motif Version 1.2–3 for OpenVMS applications or any other X11 applications on your Alpha or VAX system

During the installation of OpenVMS, you are prompted to specify whether you want to install this option.

To determine whether this option was installed during the installation of OpenVMS, enter the following command:

\$ DIR SYS\$SYSTEM:DECW\$SERVER MAIN.EXE

If the DECW\$SERVER_MAIN.EXE file is not on your system, you cannot display DECwindows Motif Version 1.2–3 for OpenVMS applications on your Alpha or VAX system. However, you can run DECwindows Motif Version 1.2–3 for OpenVMS applications that display on a DECwindows X11 display server that runs on another system. The DECwindows Motif Version 1.2–3 for OpenVMS installation procedure asks whether you want to continue the installation without workstation support.

Use the DECwindows tailoring utility (DECW\$TAILOR) to tailor on the device-support files and the 75 or 100 dots-perinch (dpi) font files using the DECwindows Motif save sets provided with the OpenVMS kit as follows:

\$ RUN SYS\$UPDATE:DECW\$TAILOR.EXE

See Section 5.3.2 for a more detailed description of this process.

__ Note ____

See the release notes and cover letter for the version of the OpenVMS operating system that you are running for more information about the DECwindows X11 display server.

1.5 OSF/Motif Release 1.1.3 and XUI Programming Support

The X Window and OSF/Motif libraries that are provided with DECwindows Motif Version 1.2–3 for OpenVMS software are incompatible with those libraries provided with previous versions. Run-time compatibility is preserved, but the OSF/Motif Release 1.1.3 and XUI programming environments are not compatible.

Programming in the XUI and OSF/Motif Release 1.1.3 environments that was provided in previous versions of DECwindows Motif is no longer supported in the DECwindows Motif Version 1.2–3 for OpenVMS product. However, the installation procedure gives you the option of saving the XUI and OSF/Motif Release 1.1.3 programming files that already exist on your system. If you choose to save these programming files, they are moved to subdirectories where you can access them for programming. Specifically, the installation creates a subdirectory called [.DECW\$113] in each of the directories listed in Table 1–1 and moves the previous files into the new [.DECW\$113] subdirectory.

Table 1–1 Directories for Previous XUI or OSF/Motif Programming Environments

| Directory | Contents | New Location |
|---------------|----------------------------|--|
| DECW\$INCLUDE | C header files | SYS\$SYSROOT:[DECW\$INCLUDE.DECW\$113] |
| SYS\$SYSTEM | UIL compiler | SYS\$SYSROOT:[SYSEXE.DECW\$113] |
| SYS\$LIBRARY | Non-C language bindings | SYS\$SYSROOT:[SYSLIB.DECW\$113] |

Refer to Section 2.3.2.5 and Section 3.1.6 for additional information about saving previous programming environments.

_____ Note _____

The process for using the saved programming environment is documented in the programmer chapter of the release notes.

1.6 Saving Customized Bookreader Files

The installation procedure replaces the following file with a new version:

SYS\$SYSROOT:[DECW\$BOOK]LIBRARY.DECW\$BOOKSHELF

If you customized this file and want to save it, copy the file to another directory or rename the file prior to the installation of DECwindows Motif Version 1.2–3 for OpenVMS software so that it is not deleted.

To copy your customized file to another directory, create the directory and define a global symbol in the file DECW\$PRIVATE_APPS_SETUP.COM.

To create a Bookreader directory called SYS\$COMMON:[DECW\$BOOK_LOCAL], perform the following steps:

1. Create the directory and assign world read access as follows:

\$ CREATE/DIRECTORY/PROTECTION=WORLD:R -\$ SYS\$COMMON: [DECW\$BOOK LOCAL]

2. Copy the LIBRARY.DECW\$BOOKSHELF file to the new directory as follows:

\$ COPY SYS\$SYSROOT: [DECW\$BOOK] LIBRARY.DECW\$BOOKSHELF -\$ SYS\$COMMON: [DECW\$BOOK LOCAL] */LOG

3. If the SYS\$MANAGER directory does not contain the DECW\$PRIVATE_APPS_SETUP.COM command file, copy the template file to a command file as follows:

\$ COPY SYS\$MANAGER:DECW\$PRIVATE APPS_SETUP.TEMPLATE \$ SYS\$MANAGER:DECW\$PRIVATE APPS SETUP.COM/LOG

4. Edit the DECW\$PRIVATE_APPS_SETUP.COM file and define the global symbol DECW\$BOOK to point to your Bookreader directory by adding the following line to the file:

\$ DECW\$BOOK == "SYS\$COMMON:[DECW\$BOOK LOCAL]"

5. Restart DECwindows Motif using the following command:

\$ @SYS\$MANAGER:DECW\$STARTUP RESTART

For more information about customizing your DECwindows Motif environment, see *Managing DECwindows Motif for OpenVMS Systems*.

1.7 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) |
| и | Update character "u" (1 character) |

| Variable | Definition |
|----------|---------------------------------|
| n | Update version number (1 digit) |
| VVV | Major version number (3 digits) |

For the DECwindows Motif Version 1.2–3 for OpenVMS installation, use the installation name DWMOTIFAXPU3012 for OpenVMS Alpha systems and DWMOTIFVAXU3012 for OpenVMS VAX systems.

• 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 Alpha or VAX processor.

1.8 Installation Procedure Requirements

The POLYCENTER Software Installation utility and the VMSINSTAL procedure are used to install OpenVMS updates and layered software products, including DECwindows Motif Version 1.2–3 for OpenVMS software.

This section discusses the requirements for installing your DECwindows Motif Version 1.2–3 for OpenVMS software.

The installation procedure checks the following:

- Whether you are logged in to an appropriately privileged account
- 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

Prepare to install DECwindows Motif Version 1.2–3 for OpenVMS software by logging in to a privileged account, such as the system manager (SYSTEM) account. See Section 1.8.1 for the prerequisite privileges. Although Digital prefers that you perform the installation using the operator console or other hardcopy

terminal, you can perform the installation from a DECterm window.

1.8.1 Process Privileges

To install DECwindows Motif Version 1.2–3 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 turns it back on when the installation is completed.

1.8.2 Process Account Quotas

The installation procedure requires that the installation account has the minimum quotas shown in Table 1–2.

| Quota Name | Value (OpenVMS VAX) | Value (OpenVMS Alpha) |
|------------|---------------------|--------------------------|
| ASTLM | 24 | 250 |
| BIOLM | 18 | 150 |
| BYTLM | 32,768 | 64,000 |
| DIOLM | 18 | 150 |
| ENQLM | 30 | 2,000 |
| FILLM | 20 | 100 |

Table 1–2 Process Quotas for the Installing Account

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 = 18000 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.*

1.8.3 Disk Space

Use Table 1–3 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

| Component | Alpha | VAX |
|--------------------------|--------------|---------------------|
| Base kit | 68,500 | 45,000 |
| Programming environment | $12,600^{1}$ | 12,100 ¹ |
| C, C++ | 7,000 | 6,500 |
| Fortran | 2,500 | 2,500 |
| Pascal | 3,100 | 3,100 |
| Example programs | 13,200 | 11,300 |
| Translated-image support | 34,000 | Not applicable |
| | | |

Table 1–3 Required Disk Space by Component

¹This number includes all programming language support. The actual number of blocks required may be fewer depending on the language support you select.

(continued on next page)

| Table 1–3 (Cont.) | Required Disk Space by Component | |
|-------------------|----------------------------------|---|
| | | _ |

| Component | Alpha | VAX | |
|----------------------------|---------|--------|--|
| | | | |
| Total disk space required: | 128,300 | 68,400 | |

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.
- Restart the installation and specify another disk to use as an alternate working device. See Section 1.8.3.1 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.

1.8.3.1 Using an Alternate Working Device

If you install your DECwindows Motif software using the VMSINSTAL procedure, 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 DECwindows Motif Version 1.2–3 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 DECwindows Motif Version 1.2–3 for OpenVMS installation, the value of *facunvvv* is DWMOTIFAXPU3012 for Alpha systems and DWMOTIFVAXU3012 for VAX systems.

- 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 DECwindows Motif Version 1.2–3 for OpenVMS product from the compact disc onto an OpenVMS Alpha system using DKA2 as the alternate working device, enter the following command:

\$ @SYS\$UPDATE:VMSINSTAL DWMOTIFAXPU3012 source-drive \$ OPTIONS N,AWD=DKA2:

1.8.3.2 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

1.8.4 System Parameters

Table 1–4 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.

| System Parameter | Alpha Value | VAX Value |
|------------------|---------------------|--------------|
| GBLSECTIONS | 600 ¹ | 420^{1} |
| GBLPAGES | 90,000 ¹ | $62,000^{1}$ |
| GBLPAGFIL | 1,024 | 6,024 |
| SWPOUTPGCNT | 512 | 500 |
| MAXBUF | 8,192 | 2,048 |
| VIRTUALPAGECNT | 73,536 | 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 | 40,000 |
| PQL_MDIOLM | 100 | 100 |
| PQL_MENQLM | 300 | 200 |
| PQL_MFILLM | 100 | 100 |
| PQL_MPRCLM | 10 | 8 |
| PQL_MWSDEFAULT | 1,024 | 512 |
| PQL_MWSQUOTA | 2,048 | 1,024 |
| PQL_MWSEXTENT | 8,192 | 2,048 |
| CLISYMTBL | 265 | 265 |
| GH_RES_CODE | $1,024^{2}$ | — |
| GH_RSRVPGCNT | 512 | _ |
| IMGRES_PAGES | $2,000^2$ | — |
| | | |

Table 1–4 Minimum Required System Parameter Values

¹If 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.

 $^2\mathrm{This}$ system parameter is available only on OpenVMS Alpha Version 6.2 (or higher) systems.

(continued on next page)

| System Parameter | Alpha Value | VAX Value |
|------------------|-------------|--------------|
| WINDOW_SYSTEM | 1 | 1 |
| NPAGEDYN | 670,000 | 735,000 |
| PAGEDYN | 289,000 | 274,000 |
| WSMAX | 12,000 | 4,096 |

Table 1–4 (Cont.) Minimum Required System Parameter Values

____ Caution ____

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

1.8.5 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 DECwindows Motif Version 1.2–3 for OpenVMS installation. The AUTOGEN utility uses system configuration data to automatically set system parameters.

1.8.5.1 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 1–4, increase the system parameter settings. Section 1.8.5.3 describes the procedures for using the AUTOGEN utility to increase these values.

If the current values are less than the values in Table 1–4, increase the system parameter settings. Section 1.8.5.3 describes the procedures for using the AUTOGEN utility to increase these values.

1.8.5.2 Calculating the Amount of Free Global Pages and Global Sections

If your system parameter values are equal to or greater than the minimum values specified in Table 1–4, then you can continue with the product installation. However, to install and run DECwindows Motif Version 1.2–3 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 free global pages and 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 1–5 to determine whether the amount of free global pages and global sections is sufficient. If these values are not sufficient to continue with the installation, then see Section 1.8.5.3, which describes the procedures for increasing these values using the AUTOGEN utility.

| Currently Running DECwindows Motif | | |
|------------------------------------|-------------------------|--------------|
| System Parameter | Alpha Value | VAX Value |
| GBLPAGES | 12,000 | 6,000 |
| GBLSECTIONS | 20 | 20 |
| Not Current | ly Running DECwindows M | otif |
| System Parameter | Alpha Value | VAX Value |
| GBLPAGES | 64,000 | 22,000 |
| CBI SECTIONS | 170 | 120 |

Table 1–5 Required Number of Free Global Pages and Global Sections

1.8.5.3 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 modify incremental adjustments to parameters, such as global pages and global sections, use ADD_. The following example increases the global page setting by 20000:

ADD GBLPAGES = 24000

Table 1–6 lists the system parameters that you need to adjust incrementally.

| System Parameter | Alpha Increment | VAX Increment |
|------------------|-----------------|------------------|
| SYSMWCNT | _ | 195 |
| GBLSECTIONS | 180 | 130 |
| GBLPAGES | 44,000 | 24,000 |
| GBLPAGFIL | 768 | 5,000 |
| NPAGEDYN | 150,000 | 305,000 |
| PAGEDYN | 76,000 | 64,000 |
| | Note | |

Table 1–6 Recommended System Parameter Values to Use with the ADD_ Option

When you set the page-file quota, do not use a value that exceeds the amount of page-file space available on the system.

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*.

1.8.6 Backing Up Your System Disk

Digital recommends that you back up your system disk before you install any software. At the beginning of the installation, the installation procedures 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*.

1.8.7 Notifying Other Users

To ensure 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:

\$ REPLY/ALL/BELL/SHUTDOWN "Log out for the installation of -_\$ DECwindows Motif Version 1.2-3 for OpenVMS please..."

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

\$ SET LOGINS/INTERACTIVE=0

2

Using the POLYCENTER Software Installation Utility

This chapter describes how to install and configure DECwindows Motif Version 1.2–3 for OpenVMS software using the POLYCENTER Software Installation utility. The DECwindows Motif Version 1.2–3 for OpenVMS product supports POLYCENTER Software installations using the Digital Command Language (DCL) interface.

Specifically, this chapter presents information about the following topics:

- Section 2.1, Accessing Help Information
- Section 2.2, Preparing to Install the DECwindows Motif Version 1.2–3 for OpenVMS Software
- 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 licences.

Note ____

You must use the POLYCENTER Software Installation utility to install your DECwindows Motif software on OpenVMS Version 6.2 (or higher) systems.

____ Caution __

If you do not have a satisfactory backup copy of your system disk, do not attempt to install DECwindows Motif Version 1.2–3 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 DECwindows Motif Version 1.2–3 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 Preparing to Install the DECwindows Motif Version 1.2–3 for OpenVMS Software

Before you initiate the installation procedure, perform the following tasks:

- Extract the DECwindows Motif Version 1.2–3 for OpenVMS release notes.
- Notify system users that you are about to install the product.

2.2.1 Extracting and Printing the Product Release Notes

To extract a copy of the *DECwindows Motif Version 1.2–3 for OpenVMS Release Notes*, enter the PRODUCT EXTRACT RELEASE_NOTES command followed by the product name, DWMOTIF, at the DCL prompt:

\$ PRODUCT EXTRACT RELEASE NOTES DWMOTIF

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

The *DECwindows Motif Version 1.2–3 for OpenVMS Release Notes* are also available in Bookreader and ASCII (.TXT) formats in the documentation directory on the DECwindows Motif Version 1.2–3 for OpenVMS CD–ROM. Refer to the *DECwindows Motif Version 1.2–3 for OpenVMS CD–ROM User's Guide* for information about accessing the release notes and other DECwindows Motif documentation.

2.2.2 Notifying System 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 the installation of \$ DECwindows Motif Version 1.2-3 for OpenVMS 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.

2.3 Installing the Software

The sections that follow take you through the stages of installing your DECwindows Motif Version 1.2–3 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 displays 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 Software Kit Names

The names of the DECwindows Motif Version 1.2–3 for OpenVMS kits are as follows:

- OpenVMS Alpha kit: DEC-AXPVMS-DWMOTIF-V0102-3-1.PCSI
- OpenVMS VAX kit: DEC-VAXVMS-DWMOTIF-V0102-3-1.PCSI

When you install DECwindows Motif Version 1.2–3 for OpenVMS software, the installation procedure looks for the product kits in the PCSI\$SOURCE directory. The appropriate kit is installed according to whether you are installing the software on an OpenVMS Alpha or VAX system.

Note _

The PCSI_INSTALLATION.COM command procedure determines the system and version on which you are installing the DECwindows Motif software. See Section 2.3.2 for information about this command procedure.

2.3.2 Starting the Installation

Run the PCSI_INSTALLATION.COM command procedure, which is part of the POLYCENTER Software installation save set, at the DCL level to start the installation. Enter the following command at the DCL prompt:

\$ @PCSI INSTALLATION

This command procedure includes the following phases of the installation:

- Running preinstallation procedures
- Installing the save sets
- Running postinstallation procedures

The sections that follow discuss the steps and activities that take place once you execute the PCSI_INSTALLATION command procedure.

As the installation progresses, the installation utility displays a percentage that indicates how much of the installation is completed. For example:

```
Portion Done: 0%
...10%
...20%
...30%
```

When the installation is successfully completed, an informational message displays by the installation procedure. The following information is displayed after DECwindows Motif Version 1.2–3 for OpenVMS Alpha is successfully installed:

```
Portion Done: 0%
...10%
...20%
...30%
...40%
...50%
...60%
...70%
...80%
...90%
...100%
The following product has been installed:
DEC AXPVMS DWMOTIF V1.2-3
```

A similar message displays following successful installations on OpenVMS VAX systems.

2.3.2.1 Displaying the Copyright Message The installation utility displays the following copyright message:

DECwindows Motif V1.2-3 for OpenVMS installation procedure.

Copyright Digital Equipment Corporation 1988, 1995. All rights reserved.

Restricted Rights: Use, duplication, or disclosure by the U.S. Government is subject to restrictions as set forth in subparagraph (c)(1)(ii) of DFARS 252.227-7013, or in FAR 52.227-19, or in FAR 52.227-14 Alt. III, as applicable.

This software is proprietary to and embodies the confidential technology of Digital Equipment Corporation. Possession, use, or copying of this software and media is authorized only pursuant to a valid written license from Digital or an authorized sublicensor.

2.3.2.2 Determining System Information

The installation utility checks and stores information about the supported version of your OpenVMS Alpha or OpenVMS VAX system. For example:

**** Supported OpenVMS Alpha Version 6.1 DETECTED ****

Refer to Section 1.4 for information about system prerequisites.

The information that displays if your version of the OpenVMS operating system does not meet the criteria depends on the OpenVMS system:

On OpenVMS Alpha systems, the following warning displays:

WARNING: This kit may be installed only on OpenVMS Alpha Version 6.1 systems or higher.◆



Alpha

On OpenVMS VAX systems:

WARNING: This kit may be installed only on OpenVMS VAX Version 6.1 systems or higher.♦

2.3.2.3 Verifying Sufficient Allocation for the GBLPAGES and CLISYMTBL Values

The installation utility checks to ensure that adequate values are allocated for GBLPAGES and CLISYMTB system parameters:

• On OpenVMS Alpha systems, the minimum value for the GBLPAGES system parameter is 90,000; on OpenVMS VAX systems, the minimum value is 62,000.

If your setting is not sufficient, the installation fails and the following message displays on OpenVMS Alpha systems:

The SYSGEN parameter GBLPAGES is too low. It must be at least 90000 for OpenVMS Alpha. Please increase GBLPAGES to a minimum of 90000 and reinstall DECwindows. See the installation guide for information on setting system parameters.

A similar message displays on OpenVMS VAX systems.

• On OpenVMS systems, the minimum value for the CLISYMTBL system parameter is 265.

The installation fails and the following message displays if your setting is not sufficient:

The SYSGEN parameter CLISYMTBL is too low. It must be at least 265. Please increase CLISYMTBL to a minimum of 265 and reinstall DECwindows. See the installation guide for information on setting system parameters.

2.3.2.4 Verifying DECwindows Motif Support Files

The installation procedure verifies that DECwindows Motif applications and run-time support files are installed on the operating system (for example, transport and font files, which are required for running DECwindows Motif software).

**** DECwindows Motif application and run-time support files DETECTED ****

If the files are not installed, the following message displays:

The DECwindows Motif application and run-time support files have not been installed.

You can use the DECwindows tailoring facility to tailor on the device support files and the 75DPI and/or the 100DPI font files using the DECwindows save sets which are shipped with the OpenVMS kit as follows:

\$ RUN SYS\$UPDATE:DECW\$TAILOR

The installation of DECwindows Motif cannot continue.

The installation procedure checks for the presence of support files that are needed to use the system as a workstation or as a workstation boot server. If the support files are installed, the following message displays:

**** DECwindows device support files DETECTED ****

If the files are not installed, users are warned with the following message that their systems cannot be a workstation or a workstation boot server:

The DECwindows device support files for using this machine as a workstation or as a boot node for workstations have not been installed.

You can use the DECwindows tailoring facility to tailor on the device support files and the 75DPI and/or the 100DPI font files using the DECwindows save sets, which are shipped with the OpenVMS kit, as follows:

\$ RUN SYS\$UPDATE:DECW\$TAILOR

Then the installation procedure asks the following question:

Do you wish to continue with this installation without the workstation support?

If you answer No (default) and press the Return key, the installation is stopped. Then you can run the DECW\$MOTIF_ TAILOR utility and tailor on the necessary support files. Once you install the necessary support files, restart the installation procedure.

If you answer Yes and press the Return key, the installation continues.

Refer to Section 5.2 for information about using the DECW\$MOTIF_ TAILOR utility.

2.3.2.5 Saving the Programming Environment

The installation procedure checks whether the OSF/Motif Release 1.1.3 programming environment exists on your system. If it is present, the installation procedure displays the following information and asks whether you want to save the OSF/Motif Release 1.1.3 programming environment:

The DECwindows Motif programming environment was installed with a previous version of this kit. This environment is incompatible with the OSF/Motif Release 1.2 environment provided with DECwindows Motif Version 1.2. The XUI programming environment is also no longer included in DECwindows Motif Version 1.2-3.

If you intend to continue developing programs for XUI or OSF/Motif Release 1.1.3, then save this environment. Please refer to the installation guide for more details and information on accessing these files in their new location.

If you do not choose to save the XUI and OSF/Motif Release 1.1.3 programming environment, those files will be removed from the system disk.

If the OSF/Motif Release 1.1.3 and the XUI programming environments currently exist on your system, the following question displays:

Save the OSF/Motif Release 1.1.3 and XUI programming environment?

If you answer Yes and press the Return key to save the OSF/Motif Release 1.1.3 and XUI programming environments, a subdirectory called [.DECW\$113] is created. The files that support that programming environment are moved to the [.DECW\$113] subdirectory.

If you answer No and press the Return key, the files are deleted.

Refer to Section 1.5 for information about accessing files related to the OSF/Motif Release 1.1.3 programming environment.

2.3.2.6 Asking About Rebooting the System

In this step of the installation, the installation utility tells you if the DECwindows Motif Version 1.2–3 for OpenVMS product will not start because of incorrect system parameters. (See Section 1.8.4 for a list of the minimum required system parameter values.)

If your system parameters are incorrect, the procedure asks whether you want to reboot the system using the AUTOGEN utility after installing the software. Or, if you prefer, a procedure can instruct you on how to reboot your system when a reboot is necessary.

__ Note __

Alpha

On OpenVMS Alpha Version 6.2 systems, the installation of DECwindows Motif Version 1.2-3 software requires a system reboot after the installation. If you do not allow a system shutdown, the installation procedure is aborted. ♦

The installation utility displays the following message:

The installation of DECwindows Motif Version 1.2-3 on systems with OpenVMS Alpha Version 6.2 (or higher) requires a system reboot after the installation. If you do not allow a system shutdown, the installation procedure will aborted.

The installation utility displays the following message:

DECwindows Motif will not start if your system parameters are not set correctly.

- o If you allow a system shutdown, the installation procedure reboots the system at the end of the installation. If your system parameters are incorrect, the installation runs AUTOGEN prior to the system reboot.
- o If you do not allow a system shutdown, the installation procedure continues; you are informed at the end of the installation whether you need to modify your system parameters to start DECwindows Motif.

The installation utility asks the following question:

Will you allow a system reboot after this product is installed?

If you answer Yes (default) and press the Return key, the system is rebooted after the installation, if necessary.

If you answer No and press the Return key, the installation continues. The installation utility tells you whether you need to modify your system parameters to start the DECwindows Motif Version 1.2–3 for OpenVMS product.

2.3.2.7 Installing the Product

Next, the POLYCENTER Software Installation utility installs the DECwindows Motif Version 1.2–3 for OpenVMS software. The utility displays messages and asks a series of questions. For example:

To answer the following question, enter the directory specification of the DECwindows Motif for OpenVMS POLYCENTER Software Installation utility kit.

Where is the PCSI kit located?

Alpha

On an OpenVMS Alpha system, the following message displays:

The DECwindows Motif V1.2-3 for OpenVMS ALPHA PCSI kit not found Type Control C to exit installation procedure or reenter kit location.

Then the following question displays again:

Where is the PCSI kit located?



On OpenVMS VAX systems, the following message displays if the installation utility cannot locate the DECwindows Motif software in the PSCI\$SOURCE directory:

```
The DECwindows Motif V1.2-3 for OpenVMS POLYCENTER
Software Installation kit cannot be located.
Type Ctrl/C to exit the installation procedure or reenter the
directory specification of the kit.♦
```

If you enter the correct directory specification, the installation utility locates the software and proceeds with the installation.

If you press Ctrl/C, the following message displays:

Terminating installation of DECwindows Motif V1.2-3 for OpenVMS

2.3.2.8 Continuing the Installation

Once the installation utility locates the kit, the procedure asks whether you want to continue with the installation.

Do you want to continue? [Yes]

If you enter Yes (default) and press Return, the installation procedure displays the following information, which includes previously displayed copyright information. Note that this example shows the message that displays on OpenVMS Alpha systems:

*** DEC AXPVMS DWMOTIF V1.2-3: DECwindows Motif V1.2-3 for OpenVMS AXP

Copyright Digital Equipment Corporation 1988, 1995. All rights reserved.

Digital Equipment Corporation

This product uses the PAK: DW-MOTIF

Do you want all the default values for this product? [YES]

DECwindows Motif runtime support files [YES]

Programming Support (C Language) [YES]

Fortran programming support [YES]

PASCAL programming support [YES]

Programming examples [YES]

Translated Image Support (OSF/Motif V1.1.3) [NO]

Do you want to view the values? [NO]

If you answer Yes to view the default values, the following information is displayed, followed by a question asking whether you are satisfied with these default values (default is Yes):

DEC AXPVMS DWMOTIF V1.2-3: DECwindows Motif V1.2-3 for OpenVMS AXP DECwindows Motif run-time support files: Yes Programming Support (C Language): Yes Fortran programming support: Yes Pascal programming support: Yes Programming examples: Yes Translated-Image Support (OSF/Motif Release 1.1.3): No

Are you satisfied with the values? [Yes]

If you are not satisfied with the values, type No to the question: Are you satisfied with the values? Then press Return; you can now change your responses to these questions.

2.3.2.9 Executing the Installation Procedure

Once you select the programming and translated-image support options, the installation utility begins the software installation. A message is displayed that shows you when the product installation begins and when it is completed, as in the following example.

```
%PCSIUI-I-DONEASK, execution phase starting
The following product will be installed:
DEC AXPVMS DWMOTIF V1.2-3
%PCSI-I-VOLINFO, estimated space information for volume DISK$AXP V61
-PCSI-I-VOLSPC, 129661 required; 1567533 available; 1437872 net
Portion Done: 0%
...10%
...20%
...30%
...40%
...50%
...60%
...70%
...80%
...90%
...100%
The following product has been installed:
DEC AXPVMS DWMOTIF V1.2-3
```

2.3.2.10 Locating the Installation Verification Procedure (IVP)

The installation procedure tells you the location of the IVP, which you should run after the installation is successfully completed and DECwindows Motif is restarted. The following message displays:

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

Refer to Section 4.2 for information about running the IVP.

2.3.2.11 Verifying the System Parameters

The installation procedure checks to ensure the following:

- Correct settings for the system parameters
- Detection of the required AUTOGEN file, DECW\$AUTOGEN.COM

The installation procedure checks whether a system reboot is necessary. The following message displays:

Checking to see if your system parameters are correctly set....

__ Note ____

Alpha

On OpenVMS Alpha Version 6.2 systems, you cannot restart your DECwindows Motif software; you must reboot the system. ♦

If your system parameters are set correctly, the installation procedure displays status information and tells you how to restart or start your DECwindows Motif Version 1.2–3 for OpenVMS software. If the parameters are not set correctly, the following message displays:

The installation procedure determined that some system parameter values require modification to start the DECwindows Motif Version 1.2-3 for OpenVMS software. To set your parameters correctly, run AUTOGEN using the following DCL command:

\$ @SYS\$UPDATE:AUTOGEN GETDATA REBOOT CHECK_FEEDBACK

This procedure adjusts your system parameters and reboots the system.

The installation procedure displays messages similar to the following:

```
%DECW-W-BADVALUE, SYSGEN parameter GBLSECTIONS is 250, should be at least 600
%DECW-W-BADVALUE, Free GBLSECTIONS is 89, should be at least 210
%DECW-W-BADVALUE, SYSGEN parameter GBLPAGFIL is 128, should be at least 1024
%DECW-W-BADVALUE, SYSGEN parameter PROCSECTCNT is 32, should be at least 64
.
.
.
%AUTOGEN-I-BEGIN, GETDATA phase is beginning.
.
%AUTOGEN-I-END, GENPARAMS phase has successfully completed.
%AUTOGEN-I-END, GENFILES phase is beginning.
%AUTOGEN-I-BEGIN, GENFILES phase is beginning.
%AUTOGEN-I-REPORT, AUTOGEN has produced some informational messages which
have been stored in the file SYS$SYSTEM:AGEN$PARAMS.REPORT. You may
wish to review the information in that file.
%AUTOGEN-I-END, GENFILES phase has successfully completed.
%AUTOGEN-I-SYSGEN, parameters modified
```

%AUTOGEN-I-END, SETPARAMS phase has successfully completed. %AUTOGEN-I-BEGIN, REBOOT phase is beginning.

The system is shutting down to allow the system to boot with the generated site-specific parameters and installed images.

The system will automatically reboot after the shutdown and the upgrade will be complete.

When you run AUTOGEN, the system parameters are reset correctly and the system is rebooted.

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.

3

Using the VMSINSTAL Procedure

This chapter explains how to install DECwindows Motif Version 1.2–3 for OpenVMS software using the VMSINSTAL procedure. 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 DECwindows Motif Version 1.2–3 for OpenVMS installation takes approximately 45 minutes, depending on the processor type. The VMSINSTAL procedure installs the DECwindows Motif Version 1.2–3 for OpenVMS product on your system disk.

_ Note __

A Product Authorization Key (PAK) for DECwindows Motif Version 1.2–3 for OpenVMS must be registered and loaded before starting the DECwindows Motif Version 1.2–3 for OpenVMS installation.

_ Caution _

If you do not have a satisfactory backup copy of your system disk, do not attempt to install DECwindows Motif Version 1.2–3 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 DECwindows Motif Version 1.2–3 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
- Section 3.2, Recovering from Errors
- Section 3.3, Accessing the Release Notes

3.1 Installation Procedure

The DECwindows Motif Version 1.2–3 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.

3.1.1 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 DECwindows Motif Version 1.2–3 for OpenVMS software:

- 1. Locate the DECwindows Motif Version 1.2–3 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 DECwindows Motif Version 1.2–3 for OpenVMS distribution kit contains more than one piece of media, place the first piece in the drive. During the installation procedure, you will be prompted to load the next piece of media. 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): DWMOTIFAXPU3012 for OpenVMS Alpha systems or DWMOTIFVAXU3012 for OpenVMS VAX systems.

Specify OPTIONS N to access the release notes, which are included in your media kit. The *DECwindows Motif Version 1.2–3 for OpenVMS Release Notes* can be displayed or printed before the installation begins. Enter the following command at the DCL prompt:

\$ @SYS\$UPDATE:VMSINSTAL DWMOTIFxxxU3012 ddcu: OPTIONS N

Note _

The example in this chapter describes a product installation on OpenVMS systems. This example substitutes *xxx* wherever Alpha or VAX normally appears. Substitute the correct letters for your system (Alpha or VAX) in place of *xxx*.

For *ddcu*, specify the device name of the source drive that holds the distribution media. See Section 1.7 for more information about the format of product and device names. Also, see the OpenVMS upgrade and installation supplement for your Alpha or VAX processor.

For example, if you install DECwindows Motif Version 1.2–3 for OpenVMS from a magnetic tape cartridge in drive MUA0:, enter the following command to invoke the VMSINSTAL command procedure:

\$ @SYS\$UPDATE:VMSINSTAL DWMOTIFxxxU3012 MUA0: OPTIONS N

If you install DECwindows Motif Version 1.2–3 for OpenVMS using the alternate working device (AWD) option described in Chapter 1, invoke the VMSINSTAL command procedure as follows:

\$ @SYS\$UPDATE:VMSINSTAL DWMOTIFxxxU3012 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 DECwindows Motif Version 1.2–3 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 DWMOTIFxxxU3012 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:

OpenVMS xxx Version 6.1 Software Product Installation Procedure

It is 20-Jan-1995 at 08:02

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

3.1.2 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 3.1.3.

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 Alpha or VAX processor.

3. After you make a backup copy of the system disk, restart the installation procedure from step 4 in Section 3.1.1.

3.1.3 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:

devicename: [directory]

Then the procedure tells you to enter the name of the product (facility name); enter the name (for example, DWMOTIFVAXU3012).

Enter the names of the product to be processed from the first distribution volume set. * Product: DWMOTIFxxxU3012

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

The following products will be processed:

DWMOTIFxxx V1.2-3

Beginning installation of DWMOTIFxxxU3012 Version 1.2-3 at 08:04 %VMSINSTAL-I-RESTORE, Restoring product save set A...

3.1.4 Choosing a Release Notes Option

If you specify OPTIONS N during step 4 in Section 3.1.1, 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
- Print release notes
 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 ____

Digital 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.

3.1.5 Continuing the Installation

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

* 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 3.3 for information about how to access the release notes once they are copied to the SYS\$HELP directory.

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

*** Installing DECwindows Motif for OpenVMS xxx software ***

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3.1.6 Preserving the OSF/Motif Release 1.1.3 Programming Environment

If DECwindows Motif is already installed on your system, the OSF/Motif Release 1.1.3 programming environment is incompatible with DECwindows Motif Version 1.2–3 for OpenVMS software. (Note that the OSF/Motif Release 1.2 programming environment is overwritten with the OSF/Motif Release 1.2.3 Toolkit when you install the DECwindows Motif Version 1.2–3 for OpenVMS software.)

The installation procedure asks whether you want to preserve the OSF/Motif Release 1.1.3 programming environment:

The DECwindows Motif programming environment was installed with a previous version of this kit. This environment is incompatible with the OSF/Motif Release 1.2.3 environment provided with DECwindows Motif Version 1.2-3. The XUI programming environment is also not included in DECwindows Motif Version 1.2-3.

If you intend to continue developing programs for XUI or OSF/Motif Release 1.1.3 you should save this environment. Please refer to the installation guide for more details and information on accessing these files in their new location.

If you do not choose to save the XUI and OSF/Motif Release 1.1.3 programming environment, those files will be removed from the system disk.

- * Do you want to save the OSF/Motif Release 1.1.3 and XUI
- * programming support files [No]?

If you want to preserve the XUI and OSF/Motif Release 1.1.3 programming environment, type Yes and press the Return key. The installation procedure creates subdirectories that contain the OSF/Motif Release 1.1.3 programming files so that they can be used for programming at a later time.

See Section 1.5 for information about how to reference the previous version of the programming support files.

3.1.7 Installing the Entire Kit

You can install the entire DECwindows Motif Version 1.2–3 for OpenVMS software kit, or you can install part of the kit. The DECwindows Motif base kit is always installed; the DECwindows Motif Version 1.2–3 for OpenVMS programming environment is optional.

The procedure asks you whether you want to install the entire kit:

You can install the DECwindows Motif kit completely or in selected portions. A complete installation requires as many as 68,400 blocks. If you choose to perform a partial installation, you can select (tailor) the programming support files that support your DECwindows Motif application development. Whether you perform a complete or partial installation, this kit provides support for running DECwindows Motif applications on OpenVMS compute servers.

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

If you want to install the entire kit, press the Return key and verify your kit selections (see Section 3.1.9). If you choose not to install the entire kit, enter No and continue with questions about installing programming support (see Section 3.1.8).

3.1.8 Choosing Programming Support Files

The installation procedure asks whether you want to install programming support:

This installation procedure provides support files for developing DECwindows Motif applications in several programming languages. These files are needed only to develop applications and are not required to run DECwindows Motif applications. The free disk space requirement for each programming support file ranges from 3000 to 8000 blocks.

* Do you want to install DECwindows Motif programming support [Yes]?

Press the Return key to install programming support. The following message displays:

Support files are supplied for the following OpenVMS programming languages:

Fortran, Pascal

In addition, support files are supplied for programming in the C language using conventions and standards developed at the Massachusetts Institute of Technology.

If you choose not to install programming support, enter No and proceed to the instructions in Section 3.1.9. The installation procedure asks whether you want to install all of the programming support files:

* Do you want to install all programming language support files [Yes]?

Press the Return key if you want to install all the languages. If you do not want to install all the languages, enter No and press the Return key. Each language then displays. Enter Yes for each language that you want to install.

The installation procedure asks whether you want to install DECwindows Motif programming example files:

* Do you want to install DECwindows Motif programming examples [Yes]?

Press the Return key if you want to install the programming example files. If you enter No, the example files are not installed.

Alpha

On OpenVMS Alpha systems, the procedure asks whether you want to install DECwindows Motif translated-image support:

This installation procedure provides support files for running your DECwindows Motif OpenVMS VAX applications on OpenVMS Alpha systems using the DECmigrate product. These files support applications developed for the OSF/Motif Release 1.1.3 toolkit.

These files are not required to run DECwindows Motif OpenVMS Alpha applications. The free disk space requirement for these support files is approximately 32,000 blocks.

* Do you want to install DECwindows Motif for OpenVMS Alpha

* translated image support [Yes]

Press the Return key if you want to install translated-image support. If you enter No, translated-image support is not installed. \blacklozenge

3.1.9 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 displays:

You have selected the following portions of the kit:

- o DECwindows Motif applications and run-time Libraries
- o DECwindows Motif for OpenVMS Alpha translated image support
- o DECwindows Motif programming examples

o DECwindows Motif programming support

Fortran, Pascal MIT C language programming conventions o OSF/Motif Release 1.1.3 and XUI saved programming support

* Are these selections correct [Yes]?

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 (see Section 3.1.7). After you repeat the selection procedure and are satisfied with your selections, enter Yes and press the Return key.

3.1.10 Verifying Disk Space

The installation procedure checks whether your system disk contains a sufficient number of free blocks.

- 1. If the blocks are available, the installation continues (see Section 3.1.11).
- 2. If you do not have sufficient system disk space to install the portions you chose, the installation displays a message similar to the following:

Your system disk has only 25364 free blocks, and you have selected to install approximately 76050 blocks.

* * * N O T E * * *

The installation procedure has determined that you do not have enough disk space to complete the installation. However, it may be possible to continue successfully if you are installing DECwindows Motif on a system that already has DECwindows Motif installed.

* Do you want to reselect which DECwindows Motif options to install [Yes]?

If you press the Return key, you can reselect the DECwindows Motif options beginning with those described in Section 3.1.7. If you enter No, the procedure asks whether you want to continue the installation:

* Do you want to continue the installation anyway [Yes]?

_ Caution _

If you press the Return key, the installation continues. However, if you exceed the amount of available disk space, the installation fails.

If you enter No, the installation ends. You can then either free up blocks on the system disk and restart the installation or start the installation again using the AWD option. (See Section 1.8.3.1 for information about using the AWD option.)

3. If you specify an alternate working device that does not have sufficient disk space to install the portions you have chosen, the installation displays a message similar to the following:

Your specified alternate working directory device has only 68977 free blocks, and this installation will require approximately 76050 blocks.

You should either reselect which DECwindows Motif options to install, or restart this installation using an alternate working directory device with more free blocks.

* * * NOTE * * *

Although the installation procedure estimates you do not have enough disk space to complete the installation, it may be possible to continue successfully if you are installing DECwindows Motif on a system which already has DECwindows installed.

* Do you want to reselect which DECwindows Motif options to install [Yes]?

If you press the Return key, you can reselect the DECwindows Motif options beginning with those described in Section 3.1.7. If you enter No, the procedure asks whether you want to continue the installation:

* Do you want to continue the installation anyway [Yes]?

If you press the Return key, the installation continues.

_ Caution __

If you lack sufficient free disk space for installation on the alternate working device, the installation procedure ends.

If you enter No, the installation procedure ends. Restart the installation once you set up an alternate working device with sufficient disk space. (See Section 1.8.3.1 for more information about using the AWD option.)

3.1.11 Verifiying License Registration

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

A registered and loaded product authorization key for DW-MOTIF is required to run any DECwindows Motif for OpenVMS application. If you answer No to the next question, the installation of DECwindows Motif for OpenVMS will be terminated.

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

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

Type Yes to continue with the installation if your authorization key is registered and loaded. If you enter No, the following message displays 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 DECwindows Motif Version 1.2–3 for OpenVMS installation beginning at step 4 in Section 3.1.1.

3.1.12 Performing a System Reboot

The installation procedure suggests that you perform a system reboot to ensure successful installation of DECwindows Motif Version 1.2–3 for OpenVMS software:

DECwindows Motif will not start if your system parameters are not correct.

- o If you allow a system shutdown, the installation procedure will reboot the system at the end of the installation. If your system parameters are incorrect, the installation will run AUTOGEN prior to the system reboot.
- o If you do not allow a system shutdown, the installation procedure will continue, and you will be informed at the end of the installation whether you need to modify your system parameters in order to start DECwindows Motif.

To complete the installation of this product, you should reboot the system. If it is not convenient to reboot at this time, then enter No to the following question.

If you enter No, the installation procedure will continue.

* Will you allow a system reboot after this product is installed [Yes]?

If you entered No to the shutdown question, no further questions are asked.

If you answered Yes to the shutdown question, the VMSINSTAL procedure displays the following questions about the shutdown:

- * How many minutes for system shutdown [0]?
- * Do you want to do an automatic system reboot [Yes]?

No further questions will be asked.

_ Caution _

To avoid confusion with file versions when activating an image or application, perform the necessary procedures to restart the DECwindows Motif Version 1.2–3 for OpenVMS software as indicated during the installation in Section 3.1.14.

3.1.13 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.

• If you perform the installation using media other than 9-track magnetic tape, messages similar to the following display:

```
%VMSINSTAL-I-SYSDIR, This product creates system disk directory
VMI$ROOT: [DECW$INCLUDE.DECW$113].
%VMSINSTAL-I-SYSDIR, This product creates system disk directory
VMI$ROOT: [SYSEXE.DECW$113].
%VMSINSTAL-I-SYSDIR, This product creates system disk directory
VMI$ROOT: [SYSLIB.DECW$113].
%VMSINSTAL-I RESTORE, Restoring product save set B ...
%VMSINSTAL-I RESTORE, Restoring product save set C ...
%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-MOVEFILES, Files will now be moved to their target directories...
```

If you perform the installation using 9-track magnetic tape, some of the files are compressed into text libraries. The installation procedure informs you that the data is being decompressed and displays messages similar to the following:

```
%VMSINSTAL-I_RESTORE, Restoring product save set B...
%VMSINSTAL-I_RESTORE, Restoring product save set C...
%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 I ...
%VMSINSTAL-I-RESTORE, Restoring product save set I ...
%VMSINSTAL-I-RESTORE, Restoring product save set J ...
%VMSINSTAL-I_RESTORE, Restoring product save set J...
%VMSINSTAL-I_RESTORE, Restoring product save set J...
%VMSINSTAL-I_RESTORE, Restoring product save set J...
%VMSINSTAL-I_MOVEFILES, Files will now be moved to their target directories...
```

The installation procedure then informs you that a spurious error message will be displayed, which you can safely ignore:

You can ignore the following NCP error message(s).

%NCP-I-SUCCESS, Success Object = X\$X0 %NML-I-RECDELET, Database entry deleted

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. (See Section 4.2 for more information about running the IVP.) 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.

3.1.14 Using the AUTOGEN Utility to Set System Parameters

The installation procedure might automatically run AUTOGEN, depending on which type of system you are using:

• A nonworkstation system

If you install DECwindows Motif Version 1.2–3 for OpenVMS on a nonworkstation system (that is, an OpenVMS host system), the following message displays:

This system is not a workstation. It will not be necessary to run AUTOGEN.

• A workstation system that runs DECwindows Motif Version 1.2–3 for OpenVMS software with correct system parameters

If you install DECwindows Motif Version 1.2–3 for OpenVMS on a workstation system and your system parameters are correct, the following message displays:

The installation procedure has determined that your system parameters are set correctly and that it will not be necessary to run AUTOGEN or reboot the system.

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

* * * N O T E * * *

If you are installing DECwindows Motif from your workstation console, log off after you enter the command to start DECwindows Motif.

• A workstation system that runs DECwindows Motif Version 1.2–3 for OpenVMS software with incorrect system parameters

If you install DECwindows Motif Version 1.2–3 for OpenVMS on a workstation system and your system parameters need to be reset, the following message displays:

The installation of DECwindows Motif has determined that some of your system parameter values will require modification in order to start DECwindows Motif Version 1.2-3 for OpenVMS. To set your parameters correctly, run AUTOGEN using the following DCL command:

\$ @SYS\$UPDATE:AUTOGEN GETDATA REBOOT CHECK FEEDBACK

This will adjust your system parameters and reboot the system.

• A workstation system that runs DECwindows Motif Version 1.2–3 for OpenVMS with incorrect system parameters, and you answered Yes to a system shutdown

The OpenVMS AUTOGEN procedure will now be run to set your system parameters. After that, your system will be automatically rebooted.

After the system has been rebooted, successful installation of the workstation software will be indicated by the appearance of the Start Session window.

%AUTOGEN-I-BEGIN, GETDATA phase is beginning.

.

•

%AUTOGEN-I-BEGIN, GENPARAMS phase is beginning.

%AUTOGEN-I-BEGIN, GENFILES phase is beginning.

%AUTOGEN-I-BEGIN, SETPARAMS phase is beginning.

Installation of DWMOTIFxxxU3 V1.2 completed at 16:39

%VMSINSTAL-I-SHUTDOWN, This product requires that the system be rebooted.

SHUTDOWN -- Perform an Orderly System Shutdown on node NODE01

3.1.15 Completing the Installation Procedure

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

Installation of DWMOTIFxxxU3 V1.2 completed at 16:39 VMSINSTAL procedure done at 16:39

These messages indicate that the installation procedure completed successfully.

On OpenVMS Alpha systems, two additional messages similar to the following display when you install DECwindows Motif:

Adding history entry in VMI\$ROOT: [SYSUPD] VMSINSTAL.HISTORY Creating installation data file: VMI\$ROOT: [SYSUPD] DWMOTIFAXPU3012.VMI DATA

> On OpenVMS Alpha systems, the file VMI\$ROOT:[SYSUPD]VMSINSTAL.HISTORY contains an entry for each product that you installed using the VMSINSTAL procedure. This entry contains the following information:

- Product name
- Product version
- Installation date
- Installation status
- Whether an IVP is available
- Node name on which the product is installed
- Name of installer

An additional file is created on OpenVMS Alpha systems and contains the following installation data:

- File names that are created, deleted, modified, or renamed
- Names of the accounts that are created or modified

Your system automatically shuts down if AUTOGEN is run; you must then reboot your system. See the upgrade and installation supplement for your Alpha or VAX processor for instructions on how to reboot your system.

Alpha

Note

If you upgrade your system with a higher version of OpenVMS at a later time, you might need to reinstall the DECwindows Motif Version 1.2–3 for OpenVMS software.

3.2 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.

3.3 Accessing the Release Notes

During the installation, the VMSINSTAL procedure copies the *DECwindows Motif Version 1.2–3 for OpenVMS Release Notes* to the

SYS\$HELP:DECW\$MOTIFU3012.RELEASE_NOTES file. Once you return to DCL level, you can print this file or display it at a terminal. Refer to Section 3.1.4 for more information about accessing the release notes.

4

After Installing the Software

This chapter discusses the tasks that you need to perform after the DECwindows Motif Version 1.2–3 for OpenVMS installation is completed:

- Section 4.1, Starting the DECwindows Motif Software
- Section 4.2, Running the IVP
- Section 4.3, Choosing an Alternative Console

If the DW–MOTIF license that is installed on your system is not valid, appropriate messages display on your console terminal and DECwindows Motif is not automatically started. If this situation occurs, log in to the system, install the valid license, and start your DECwindows Motif software. For complete information on installing licenses using LMF, see the *OpenVMS License Management Utility Manual*.

4.1 Starting the DECwindows Motif Software

DECwindows Motif Version 1.2–3 for OpenVMS software can be started only if your system parameters are correct. Proceed to one of the following sections if your system parameters are correct:

- Section 4.1.1, Standalone Systems
- Section 4.1.2, VMScluster Systems

If your system parameters are not correct, then use one of the following methods to adjust them accordingly:

• Invoke the AUTOGEN utility:

\$ @SYS\$UPDATE:AUTOGEN GETDATA REBOOT CHECK FEEDBACK

 Attempt to start the DECwindows Motif software. The DECwindows Motif startup procedure checks your system parameters; if they are too low, the following question is displays:

After the system is rebooted and the startup is completed, the Start Session dialog box displays.

The DECwindows Motif Version 1.2–3 for OpenVMS software is now installed and running on your system.

Run the Installation Verification Procedure (IVP) as described in Section 4.2 to verify that the installation of DECwindows Motif Version 1.2–3 for OpenVMS software is complete and accurate.

4.1.1 Standalone Systems

Perform one of the following procedures to start your DECwindows Motif software on a standalone system:

• If your system is not running DECwindows Motif, then start DECwindows Motif with the following command:

\$ @SYS\$MANAGER:DECW\$STARTUP

• If your system is currently running DECwindows Motif, then restart DECwindows Motif with the following command:

\$ @SYS\$MANAGER:DECW\$STARTUP RESTART

_ Note _

If your system has a workstation display, then the command to restart DECwindows Motif will end your current session. The Start Session dialog box displays on your terminal, and you must log back in to continue using DECwindows Motif.

The DECwindows Motif Version 1.2–3 for OpenVMS software is now installed and running on your system.

Run the IVP as described in Section 4.2 to verify that the installation of DECwindows Motif Version 1.2–3 for OpenVMS is complete and accurate.

4.1.2 VMScluster Systems

Starting DECwindows Motif Version 1.2–3 for OpenVMS on nonsatellite and satellite nodes is described in the sections that follow.

4.1.2.1 Starting Nonsatellite and Boot Nodes

To start DECwindows Motif Version 1.2–3 for OpenVMS software on each of the nonsatellite nodes within your VMScluster, perform one of the following procedures:

• If your system is not running DECwindows Motif, then start DECwindows Motif with the following command:

\$ @SYS\$MANAGER:DECW\$STARTUP

• If your system is currently running DECwindows Motif, then restart DECwindows Motif with the following command:

\$ @SYS\$MANAGER:DECW\$STARTUP RESTART

Note ____

If the nonsatellite node or boot node has a workstation display, then the command to restart DECwindows Motif will end your current session. The Start Session dialog box displays on your terminal; log in again to continue using DECwindows Motif.

The DECwindows Motif Version 1.2–3 for OpenVMS software is now installed and running on your system. Run the IVP as described in Section 4.2 to verify that the installation of the DECwindows Motif Version 1.2–3 for OpenVMS product is complete and accurate.

4.1.2.2 Starting Satellite Nodes

To start the DECwindows Motif Version 1.2–3 for OpenVMS software that is installed on the boot node, perform one of the following procedures on each satellite node in the VMScluster that will run DECwindows Motif Version 1.2–3 for OpenVMS software:

• If the node is not running DECwindows Motif, then start DECwindows Motif with the following command:

\$ @SYS\$MANAGER:DECW\$STARTUP

• If the node is currently running DECwindows Motif, then restart DECwindows Motif with the following command:

\$ @SYS\$MANAGER:DECW\$STARTUP RESTART

Once DECwindows Motif is started or restarted on each node in the VMScluster, then the installation is considered complete. Now run the IVP as described in Section 4.2.

4.2 Running the IVP

Run the IVP, SYS\$TEST:DECW\$IVP.COM, after you install and start the DECwindows Motif Version 1.2–3 for OpenVMS product. This procedure contains four tests, which verify that the software installation is complete and accurate.

First, the IVP procedure attempts to run two display-oriented tests. When you invoke the IVP, it identifies your type of hardware.

- If you are using a workstation, you are asked where the display-oriented tests should display. Your current workstation is the default.
- If you are not using a workstation, the procedure prompts you for a display name.

Press Ctrl/Z at the prompt if you do not want to run the displayoriented tests. The IVP runs these tests only if the images exist on the system. If the IVP does not find the images, a message displays to inform you that the tests will not be run. Note

If you are invoking the IVP from a LAT Xterminal using LAT software, enter the following command first:

\$ SET DISPLAY/CREATE/NODE=LAT nnnnnnnnnn/TRANSPORT=LAT

Substitute your actual LAT terminal number for *nnnnnnnnn*.

Enter the default at the _Display: prompt.

Next, the IVP runs two nondisplay-oriented tests.

- The first of these tests invokes the Motif UIL compiler. If you did not install programming support, the IVP informs you that this test will not be run because the Motif UIL image does not exist. If this test is run, you are notified of its completion status.
- The last test converts a text file to DDIF format and then converts it back to text, comparing the original text file with the result. If the files match, the test is successful. You are notified of its completion status.

Example 4–1 shows you how to run the IVP.

Example 4–1 Sample IVP

\$ @SYS\$TEST:DECW\$IVP

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DECwindows Motif for OpenVMS Installation Verification Procedure (IVP)

This IVP is intended to test some of the functionality of DECwindows Motif for OpenVMS and to provide a quick method of verifying the installation.

This machine is not a workstation. Please provide the nodename of a workstation on which to display the IVP tests. You must be sure that this account and node have security access to the display node, or the IVP will fail.

To skip the display-oriented tests, press Ctrl/Z at the following prompt.

Display: NODE33::0.0

(continued on next page)

Example 4-1 (Cont.) Sample IVP

```
%DECW-I-IVP, The IVP will display on NODE33::0.0
%DECW-I-IVP, Running DECW$EXAMPLES:ICO.EXE for up to a minute.
%DECW-I-IVP, Press Ctrl/Y to interrupt test.
%DCL-S-SPAWNED, process DECW$IVP_ICO spawned
%DECW-I-IVP, Running SYS$SYSTEM:DECW$CLOCK for up to a minute.
%DECW-I-IVP, Press Ctrl/Y to interrupt test.
%DCL-S-SPAWNED, process DECW$IVP_CLOCK spawned
%DECW-I-IVP, Invoking the UIL Motif compiler...
%DECW-S-IVP, The UIL Motif compiler test completed successfully.
%DECW-I-IVP, Beginning CONVERT/DOCUMENT IVP...
%DECW-S-IVP, CONVERT/DOCUMENT IVP passed.
%DECW-S-IVP, The IVP has completed.
%
```

4.3 Choosing an Alternative Console

The DECwindows Motif Version 1.2–3 for OpenVMS software allows you to boot all configurations from the main console. You can then toggle between displaying and not displaying the operator window by pressing Ctrl/F2. The main console is always a workstation screen.

For an alternative console, you can use a terminal connected to the workstation by means of a terminal port.

If you boot from the main console, the alternative console is connected when you invoke the DECwindows Motif startup command procedure.
5

Managing DECwindows Motif Software

This chapter contains information about managing the performance of your DECwindows Motif Version 1.2–3 for OpenVMS software. It also describes how to add and remove DECwindows Motif files from your system disk using tailoring utilities. See *Managing DECwindows Motif for OpenVMS Systems* for additional system management information.

The following topics are discussed in this chapter:

- Section 5.1, Customizing the DECwindows X11 Display Server Startup Procedure
- Section 5.2, Using the DECW\$MOTIF_TAILOR Utility to Remove Files
- Section 5.3, Adding DECwindows Base-Support Files
- Section 5.4, Determining and Reporting Problems

After you install the DECwindows Motif Version 1.2–3 for OpenVMS product, you can tune your system to enhance performance or to decrease the use of some system resources. For information about tuning your system, see *Managing DECwindows Motif for OpenVMS Systems*.

5.1 Customizing the DECwindows X11 Display Server Startup Procedure

The DECwindows X11 display server manages the graphics devices on your workstation, such as the display, keyboard, and mouse.

____ Note __

Start the DECwindows X11 display server on workstation systems only.

The startup command procedures automatically determine most of the configuration parameters for the DECwindows X11 display server. However, the command procedures cannot determine some items, such as the following:

- Whether you have a 75-dpi or 100-dpi monitor
- Whether you have a North American keyboard layout (such as for an LK201–AA or –LA or an LK401–AA or –LA keyboard)
- Whether the DECwindows X11 display server uses only DECnet for OpenVMS software and local transports
- Whether the DECwindows X11 display server logs both successful and unsuccessful connect and disconnect messages to the DECW\$SERVER_*n*_ERROR.LOG file

To ensure that the DECwindows X11 display server is set up correctly, modify the server startup file as follows:

1. Make a copy of the file SYS\$MANAGER:DECW\$PRIVATE_ SERVER_SETUP.TEMPLATE and rename it to SYS\$MANAGER:DECW\$PRIVATE_SERVER_SETUP.COM. This server startup file shows how to customize individual workstations by adding a section of DCL commands for each workstation.

You can add setup options in either of two sections in the server startup file. Setup options added to the "Cluster Common or Standalone Workstation Setup" section affect all nodes in a cluster. Setup options added to the "Cluster Member Workstation-Specific Setup" section affect only individual nodes. If you add a workstation-specific option, you must also update the variable *node_list*.

2. If your screen supports 100 dots-per-inch, add the following line:

\$ DECW\$SERVER DENSITY == "100"

Add this line to the section for each workstation that has a 100 dots-per-inch monitor, or add it to the common section for all workstations (if all the workstations have 100-dpi monitors).

3. If you want the server to log successful connect and disconnect messages, add the following line:

\$ DECW\$SERVER CONNECT LOG == "TRUE"

4. Add the following line to the section for monochrome GPX workstations:

```
$ DECW$COLOR == "FALSE"
```

No modification is necessary for grayscale (intensity) screens.

5. Add the following line to the section for workstations with keyboards that are not North American LK201 models:

\$ DECW\$DEFAULT KEYMAP == "xxxxx"

In the previous line, replace *xxxxx* with the correct DECwindows keymap name. You can determine the correct name from the model number of your LK201 or LK401 keyboard. Turn the keyboard upside down and look for a label that specifies the model number. The model number is in a format similar to LK201–*xx* or LK401–*xx*. The model number may also be listed as LK201 or LK401. In this case, the *xx* that you need is in another part of the label where there is a number that looks similar to the following:

nn-nnnnn-xx

Use the *xx* part of this number to choose a keymap name from Table 5–1. Choose the keymap ending in _DP for data-processing keyboard layout and the keymap ending in _TW for typewriter layout.

Table 5–1 is arranged according to the dialect for which each keyboard is designed.

After you choose a keymap name, modify the DECwindows X11 display server startup file. For example, to change the keyboard layout to a Dutch typewriter layout, add the following line to the DECwindows X11 display server startup file:

\$ DECW\$DEFAULT_KEYBOARD_MAP == "DUTCH_LK201LH_TW"

Add a similar line for each workstation that does not have a North American keyboard layout or add the line to the common section for all workstations (if all the workstations use the same keyboard layout).

6. Enter the following command to restart DECwindows Motif on the workstations for which you customized the server startup by using the following command:

\$ @SYS\$MANAGER:DECW\$STARTUP RESTART

| Dialect | Model | DECwindows Keymap |
|-----------------|---------------------|----------------------------|
| Austrian/German | LK201-(AG,LG,BG,MG) | AUSTRIAN_GERMAN_LK201LG_DP |
| | | AUSTRIAN_GERMAN_LK201LG_TW |
| | LK201-(NG,PG) | AUSTRIAN_GERMAN_LK201NG_DP |
| | | AUSTRIAN_GERMAN_LK201NG_TW |
| | LK401-(AG) | AUSTRIAN_GERMAN_LK401AG_TW |
| Belgian/French | LK201-(AP,LP,BP,MP) | BELGIAN_FRENCH_LK201LP_DP |
| | | BELGIAN_FRENCH_LK201LP_TW |
| Belgian/French | LK401-(AP) | BELGIAN_FRENCH_LK401AP_DP |
| | | BELGIAN_FRENCH_LK401AP_TW |
| British | LK201-(AE,LE,BE,ME) | BRITISH_LK201LE_DP |
| | | BRITISH_LK201LE_TW |
| British | LK401-(AA,PA) | BRITISH_LK401AA_DP |
| | | BRITISH_LK401AA_TW |
| Canadian/French | LK201-(AC,LC,BC,MC) | CANADIAN_FRENCH_LK201LC_DP |
| | | CANADIAN_FRENCH_LK201LC_TW |
| Canadian/French | LK401-(AC,LC,BC,MC) | CANADIAN_FRENCH_LK401AC_DP |
| | | CANADIAN_FRENCH_LK401AC_TW |
| Danish | LK201-(AD,LD,BD,MD) | DANISH_LK201LD_DP |
| | | DANISH_LK201LD_TW |
| | LK201-(ED,RD,FD) | DANISH_LK201RD_DP |
| | | DANISH_LK201RD_TW |
| | | (continued on next page) |

 Table 5–1
 DECwindows
 Keymap

| Dialect | Model | DECwindows Keymap |
|----------------|---------------------|--------------------------|
| Danish | LK401-(AD,LD,BD,MD) | DANISH_LK401AD_DP |
| | | DANISH_LK401AD_TW |
| Dutch | LK201-(AH,LH,BH,MH) | DUTCH_LK201LH_DP |
| | | DUTCH_LK201LH_TW |
| | LK201-(NH,PH) | DUTCH_LK201NH |
| | LK401-(NH,PH) | DUTCH_LK401AH |
| Finnish | LK201-(AF,LF,BF,MF) | FINNISH_LK201LF_DP |
| | | FINNISH_LK201LF_TW |
| | LK201-(NX,PX) | FINNISH_LK201NX_DP |
| | | FINNISH_LK201NX_TW |
| Finnish | LK401-(AF,LF,BF,MF) | FINNISH_LK401AF_DP |
| | | FINNISH_LK401AF_TW |
| Flemish | LK201-(AB,LB,BB,MB) | FLEMISH_LK201LB_DP |
| | | FLEMISH_LK201LB_TW |
| Flemish | LK401-(AB,LB,BB,MB) | FLEMISH_LK401AB_DP |
| | | FLEMISH_LK401AB_TW |
| Icelandic | LK201-(AU,LU,BU,MU) | ICELANDIC_LK201LU_DP |
| | | ICELANDIC_LK201LU_TW |
| Italian | LK201-(AI,LI,BI,MI) | ITALIAN_LK201LI_DP |
| | | ITALIAN_LK201LI_TW |
| Italian | LK401-(AI,LI,BI,MI) | ITALIAN_LK401AI_DP |
| | | ITALIAN_LK401AI_TW |
| North American | LK201-(AA,LA,BA,MA) | NORTH_AMERICAN_LK201LA |
| North American | LK401-(AA,LA,BA,MA) | NORTH_AMERICAN_LK401AA |
| Norwegian | LK201-(AN,LN,BN,MN) | NORWEGIAN_LK201LN_DP |
| | | NORWEGIAN_LK201LN_TW |
| | LK201-(EN,RN,FN) | NORWEGIAN_LK201RN_DP |
| | | NORWEGIAN_LK201RN_TW |
| Norwegian | LK401-(AN,LN,BN,MN) | NORWEGIAN_LK401AN_DP |
| | | (continued on next page) |

Table 5–1 (Cont.) DECwindows Keymap

| Dialect | Model | DECwindows Keymap |
|----------------|---------------------|-------------------------|
| | | NORWEGIAN_LK401AN_TW |
| Portuguese | LK201-(AV,LV,BV,MV) | PORTUGUESE_LK201LV |
| Portuguese | LK401-(AV,LV,BV,MV) | PORTUGUESE_LK401AV |
| Spanish | LK201-(AS,LS,BS,MS) | SPANISH_LK201LS_DP |
| | | SPANISH_LK201LS_TW |
| Spanish | LK401-(AS,LS,BS,MS) | SPANISH_LK401AS_DP |
| | | SPANISH_LK401AS_TW |
| Swedish | LK201-(AM,LM,BM,MM) | SWEDISH_LK201LM_DP |
| | | SWEDISH_LK201LM_TW |
| | LK201-(NM,PM) | SWEDISH_LK201NM_DP |
| | | SWEDISH_LK201NM_TW |
| Swedish | LK401-(AM,LM,BM,MM) | SWEDISH_LK401AM_DP |
| | | SWEDISH_LK401AM_TW |
| Swiss/French | LK201-(AK,LK,BK,MK) | SWISS_FRENCH_LK201LK_DP |
| | | SWISS_FRENCH_LK201LK_TW |
| Swiss/French | LK401-(AK,LK,BK,MK) | SWISS_FRENCH_LK401AK_DP |
| | | SWISS_FRENCH_LK401AK_TW |
| Swiss/German | LK201-(AL,LL,BL,ML) | SWISS_GERMAN_LK201LL_DP |
| | | SWISS_GERMAN_LK201LL_TW |
| Swiss/German | LK401-(AL,LL,BL,ML) | SWISS_GERMAN_LK401AL_DP |
| | | SWISS_GERMAN_LK401AL_TW |
| Combined US/UK | LK201-(EE,RE,PE) | UK_LK201RE |
| | | US_LK201RE |
| Combined US/UK | LK401-(EE,RE,PE) | UK_LK401AA |
| | | US_LK401AA |

Table 5–1 (Cont.) DECwindows Keymap

5.2 Using the DECW\$MOTIF_TAILOR Utility to Remove Files

The DECW\$MOTIF_TAILOR utility is used to remove DECwindows Motif files from the system disk (for example, support files for the Toolkit, applications, and programming). If you later decide that you want DECwindows Motif programming support, add the files to the system disk by reinstalling the system. See Section 5.3 for information about adding files.

The DECW\$MOTIF_TAILOR process includes two phases:

- The first phase lists each class of DECwindows Motif files and asks whether you want to delete the class from the system disk.
- The second phase deletes the files you indicated from the system disk.

Table 5–2 lists the classes (or groups) and subclasses of DECwindows Motif files that you can delete using the DECW\$MOTIF_TAILOR utility. For a list of DECwindows Motif files and their descriptions and classes, see Appendix C.

| Table 5–2 | Classes of OpenVMS Files That Can Be Removed with |
|-----------|---|
| | the DECW\$MOTIF_TAILOR Utility |

| Class | Subclass | Description |
|--|---|--|
| DECwindows Motif run-time support | No subclasses in this tailor class | DECwindows Motif run-time support. |
| DECwindows Motif CDA support | No subclasses in this tailor class | DECwindows Motif CDA support. |
| DECwindows Motif applications files | DECwindows Motif computer-based instruction (CBI) | The DECwindows Motif applications files provide a variety of applications. |

| Class | Subclass | Description |
|---|---------------------------------------|--|
| DECwindows Motif C and C++ programming support files | No subclasses in this tailor class | DECwindows Motif C and C++ programming support files are needed only to develop applications and are not required to run DECwindows Motif applications. These files are provided for programming in C and C++ languages using conventions and standards developed at the Massachusetts Institute of Technology (MIT). |
| Fortran files | No subclasses in this tailor class | Fortran support files are provided for this programming language. The files are needed only to develop applications and are not required to run DECwindows Motif applications. |
| Pascal files | No subclasses in this tailor class | Pascal support files are provided for this programming language. The files are needed only to develop applications and are not required to run DECwindows Motif applications. |
| DECwindows Motif example files | No subclasses in this tailor class | DECwindows Motif example files. |
| Sound files | No subclasses in this tailor class | Sound-editor support files. |
| Alpha translated- image support files | No subclasses in this tailor class | Translated-image support. |

Table 5–2 (Cont.) Classes of OpenVMS Files That Can Be Removed with the DECW\$MOTIF_TAILOR Utility

Removing DECwindows Motif Files from the System Disk

To remove DECwindows Motif files from the system disk, do the following:

- 1. Log in to the SYSTEM account.
- 2. Enter the following command at the DCL prompt:

```
$ RUN SYS$UPDATE:DECW$MOTIF TAILOR
```

After a brief overview, the DECW\$MOTIF_TAILOR utility lists each group, or class, of files and its size in blocks. Files are grouped according to their function. For example, all the files required for DECwindows for OpenVMS device support are in one class. A file class is made up of many small subclasses. You can eliminate an entire class of files, or you can eliminate one or more of its subclasses. For example:

```
CLASS - VMS DECwindows Motif applications files
```

Size of entire class (with subclasses): 16344 Size of common files required for any subclass: 15323 Do you wish to select the entire class (default = NO)? Do you wish to select any of its subclasses (default = NO)?

```
3. Decide which file classes or subclasses you do not need to
support your system. The DECW$MOTIF_TAILOR utility
displays step-by-step instructions. Follow these instructions to
specify which of the classes or subclasses you want to remove.
```

4. The DECW\$MOTIF_TAILOR utility deletes the files you select and displays the names of those files.

You can ignore "file not found" messages in the log files; tailoring functions are not affected by these messages. The installation procedure deletes files that it does not read. For instance, specific OpenVMS VAX files are deleted when you tailor off files on OpenVMS Alpha systems. _ Caution __

To cancel DECW\$MOTIF_TAILOR during the first phase, press Ctrl/C, Ctrl/Y, or Ctrl/Z. If you cancel DECW\$MOTIF_TAILOR during the second phase, a partially tailored disk may result. For a description of both phases, see Section 5.2.

Example 5–1 shows how to use DECW\$MOTIF_TAILOR to remove files from a system disk.

Example 5–1 Sample DECW\$MOTIF_TAILOR Session

\$ RUN SYS\$UPDATE:DECW\$MOTIF TAILOR

TAILOR-OFF

.

You will now be prompted with a list of the classes and subclasses of DECwindows files that are optional. The size of each class and subclass is included in the list. This will help you decide whether or not you want to remove a class or subclass from your system.

Under some classes there is a set of common files that is required in order for any subclasses to work. These files will only be deleted if you remove the ENTIRE class. If you choose to keep any subclass, this set of files is not deleted.

NOTE: The files associated with selected classes and subclasses will be removed from your system.

Total size of the system disk is 2050860 blocks. Total space used on the system disk is 684720 blocks. Total space left on the system disk is 1366140 blocks.

- CLASS VMS DECwindows Runtime Support Size of entire class (with subclasses): 44853 No subclasses in this tailor class. Do you wish to select the entire class (default = NO)? Return
- CLASS VMS DECwindows CDA Support Size of entire class (with subclasses): 5153 No subclasses in this tailor class. Do you wish to select the entire class (default = NO)? Yes

Example 5–1 (Cont.) Sample DECW\$MOTIF_TAILOR Session

| CLASS - S D D | - VMS DECwindows Motif applications files Size of entire class (with subclasses): 16344 Size of common files required for any subclass: 15323 Do you wish to select the entire class (default = NO)? [Return] Do you wish to select any of its subclasses (default = NO)? [Return] |
|------------------------|--|
| CLASS - N | DECwindows C programming support files Size of entire class (with subclasses): 6904 No subclasses in this tailor class. Do you wish to select the entire class (default = NO)? Yes |
| CLASS - N | - DECwindows Fortran programming support files Size of entire class (with subclasses): 2429 No subclasses in this tailor class. Do you wish to select the entire class (default = NO)? Yes |
| CLASS - N | DECwindows Pascal programming support files Size of entire class (with subclasses): 3010 No subclasses in this tailor class. Do you wish to select the entire class (default = NO)? Return |
| CLASS - N | - DECwindows Motif example files Size of entire class (with subclasses): 13365 No subclasses in this tailor class. Do you wish to select the entire class (default = NO)? Yes |
| CLASS - S | - Sound editor support files Size of entire class (with subclasses): 1837 Size of common files required for any subclass: 1574 Do you wish to select the entire class (default = NO)? Yes |
| CLASS - N | - Alpha translated image support files Size of entire class (with subclasses): 32179 No subclasses in this tailor class. Do you wish to select the entire class (default = NO)? Return) |

Example 5–1 (Cont.) Sample DECW\$MOTIF_TAILOR Session

```
Files have been selected
Do you wish to remove all of the options selected? Return
Do you wish to remove all of the options selected? Yes
Removing files, please wait..
%VMSTLR-I-DELFILE, deleting file: SYS$SYSROOT:[CDA$LIBRARY]DEFSTYLE.DDIF;*
%VMSTLR-I-DELFILE, deleting file: SYS$SYSROOT: [DECW$DEFAULTS.SYSTEM]DDIF$CSW.UID;*
%VMSTLR-I-DELFILE, deleting file: SYS$SYSROOT: [DECW$DEFAULTS.SYSTEM]DDIF$VIEW.UID;*
%VMSTLR-I-DELFILE, deleting file: SYS$SYSROOT: [DECW$DEFAULTS.SYSTEM]DDIF$VIEWWGT.UID;*
%VMSTLR-I-DELFILE, deleting file: SYS$SYSROOT: [DECW$DEFAULTS.SYSTEM]DDIF$VIEWWGT12.UID;*
%VMSTLR-I-DELFILE, deleting file: SYS$SYSROOT: [SYSEXE] CDA$CONVERT.EXE;*
%RMS-E-FNF, file not found
%VMSTLR-I-DELFILE, deleting file: SYS$SYSROOT:[VUE$LIBRARY.SYSTEM]SOUND$PROFILE.VUE$DAT;*
%VMSTLR-I-DELFILE, deleting file: SYS$SYSROOT:[VUE$LIBRARY.SYSTEM]SOUND$VUE STARTUP.COM;*
%VMSTLR-I-DELFILE, deleting file: SYS$SYSROOT:[SYSLIB]DIVA$LIB SHR.EXE;*
%VMSTLR-I-DELFILE, deleting file: SYS$SYSROOT:[SYSLIB]DIVA$WGT SHR.EXE;*
%VMSTLR-I-DELFILE, deleting file: SYS$SYSROOT: [SYSMSG]DIVA$LIB MSG.EXE;*
DW002$DKA100:$log
 SYSTEM
               logged out at 20-JAN-1995 15:04:44.24
```

5.3 Adding DECwindows Base-Support Files

If you previously chose not to install or if you removed DECwindows software, perform one of the following procedures to add DECwindows base-support files:

- Reinstall the OpenVMS system, specifing that you want only DECwindows Motif support.
- Use the SYS\$UPDATE:DECW\$TAILOR.EXE procedure to add or remove support files from the system disk.

5.3.1 Reinstalling the OpenVMS Operating System

To reinstall the OpenVMS operating system to add DECwindows Motif support, perform the following steps:

- 1. Follow the installation procedure as described in Chapter 2 and Chapter 3.
- 2. When the installation procedure asks whether you want to install the entire kit, type No. The procedure displays optional parts of the kit and asks whether you want to install each part. Type Yes for each part you want to install.
- 3. All kit sections that you chose are displayed; you are asked to verify that the choices are correct.
- 4. Once you verify the selections, the installation procedure continues.

5.3.2 Using the SYS\$UPDATE:DECW\$TAILOR.EXE Command

You can use the DECW\$TAILOR utility to add or remove some or all DECwindows base-support files from the system disk. DECW\$TAILOR is similar to DECW\$MOTIF_TAILOR. However, the DECW\$TAILOR utility is used to add or remove files that support the DECwindows display server (for example: basesupport, workstation, and font files).

DECW\$TAILOR includes three phases:

- The first phase asks whether you want to tailor your system by adding files ("tailor on") or by deleting files ("tailor off").
- In the second phase, if you choose the tailor-on procedure, DECW\$TAILOR lists each class of DECwindows files and asks whether you want to include them on the system disk. If you choose the tailor-off procedure, DECW\$TAILOR lists each class of DECwindows files and asks whether you want to delete them from the system disk.
- In the third phase, DECW\$TAILOR carries out your instructions.

Note

To cancel DECW\$TAILOR during the first and second phases, press Ctrl/C, Ctrl/Y, or Ctrl/Z. If you cancel DECW\$TAILOR during the third phase, a partially tailored disk may result.

To tailor the OpenVMS operating system, run SYS\$UPDATE:VMSTAILOR.

Table 5–3 lists the classes and subclasses of DECwindows files that you can add or remove from your system using DECW\$TAILOR.

| Table 5–3 | Classes of Files That Can Be Added or Removed with |
|-----------|--|
| | the DECW\$TAILOR Utility |

| Class | Subclass | Description |
|--|---------------------------------------|--|
| DECwindows base support files | No subclasses in this tailor class | Files necessary to run the DECwindows Motif client and DECwindows display server. |
| DECwindows workstation support files | PEX for PHIGS support files | Files necessary to run the DECwindows display server; the PEX subclass includes support files for three-dimensional graphics. |
| 75-dpi video font files | No subclasses in this tailor class | Device support files for 75-dpi monitiors. |
| 100-dpi video font files | No subclasses in this tailor class | Device support files for 100-dpi monitors. |

Adding DECwindows Files to the System Disk

To add DECwindows files to the system disk, perform the following steps:

- 1. Log in to the SYSTEM account.
- 2. Enter the following command at the DCL prompt to invoke the utility:
 - \$ RUN SYS\$UPDATE:DECW\$TAILOR

After a brief overview, the DECW\$TAILOR program lists each group, or class, of files and its size in blocks. Files are grouped according to their function. For example, all the files required for DECwindows base support are in one class. A file class is made up of many small subclasses. You can eliminate an entire class of files, or you can eliminate one or more of its subclasses. For example:

```
CLASS - DECwindows workstation support files
Size of entire class (with subclasses): 12380
Size of common files required for any subclass: 8919
Do you wish to select the entire class (default = NO)?
Do you wish to select any of its subclasses (default = NO)?
```

- 3. Decide which file classes or subclasses are needed to support your system. DECW\$TAILOR displays step-by-step instructions. Follow these instructions to specify which of the classes or subclasses you want to add.
- 4. DECW\$TAILOR creates a temporary command file and asks for the name of the device that contains the distribution media.

_____ Note _____ The distribution media is the OpenVMS distribution media that contains the DECwindows save sets.

5. DECW\$TAILOR adds the files you selected and displays the names of those files.

_ Caution _

To cancel DECW\$TAILOR during the first phase, press Ctrl/C, Ctrl/Y, or Ctrl/Z. If you cancel DECW\$TAILOR during the second phase, a partially tailored disk may result. Example 5–2 shows how to use DECW\$TAILOR to add files to a system disk.

Example 5–2 Sample DECW\$TAILOR Session

\$ RUN SYS\$UPDATE:DECW\$TAILOR Do you want to tailor files "ON" or "OFF"? ON TAILOR-ON _ _ _ _ _ _ _ . You will now be prompted with a list of the classes and subclasses of DECwindows files that are optional. The size of each class and subclass is included in the list. This will help you decide whether or not you want to add a class or subclass to your system. Under some classes, there is a set of common files that is required in order for any subclasses to work. These files are added when you ask for either the entire class or any of its subclasses. Total size of the system disk is 1216665 blocks. Total space used on the system disk is 1121958 blocks. Total space left on the system disk is 94707 blocks. CLASS - DECwindows base support files Size of entire class (with subclasses): 3110 No subclasses in this tailor class. Do you wish to select the entire class (default = NO)? YES CLASS - DECwindows workstation support files Size of entire class (with subclasses): 12380 Size of common files required for any subclass: 8919 Do you wish to select the entire class (default = NO)? Return Do you wish to select any of its subclasses (default = NO)? Return CLASS - 75 dots/inch video font files Size of entire class (with subclasses): 4538 No subclasses in this tailor class. Do you wish to select the entire class (default = NO)? Return CLASS - 100 dots/inch video font files Size of entire class (with subclasses): 3693 No subclasses in this tailor class. Do you wish to select the entire class (default = NO)? Return

Example 5–2 (Cont.) Sample DECW\$TAILOR Session

Files have been selected
Do you wish to add all of the options selected? YES
Creating temporary command file, please wait...
* Enter device containing DECwindows distribution media:
 .
 .

5.4 Determining and Reporting Problems

If you encounter a problem while using DECwindows Motif, review the *Software Product Description* (SPD) and Warranty Addendum for an explanation of the warranty. If you encounter a problem during the warranty period, use the following methods to report the problem or follow alternate instructions provided by Digital for reporting problems:

- Call Digital if your software contract or warranty agreement includes telephone support.
- Submit a Software Performance Report (SPR).
- If you discover a problem with or have comments about the documentation, fill out and submit a Reader's Comments form, located at the back of each DECwindows Motif manual.

POLYCENTER Software Installation Utility Sample Installation

Example A–1 in this appendix presents a sample DECwindows Motif installation on an OpenVMS Alpha Version 6.1 operating system using the POLYCENTER Software Installation utility. Refer to Chapter 2 for details about using the POLYCENTER Software Installation utility to install DECwindows Motif Version 1.2–3 for OpenVMS software.

Refer to Section B.1 to see a sample registration of a DECwindows Motif Version 1.2–3 for OpenVMS PAK.

Example A–1 Sample Installation Using the POLYCENTER Software Installation Utility on an OpenVMS Alpha System

Welcome to the OpenVMS Alpha Operating System, Version 6.1

\$ @PCSI_INSTALLATION Return

DECwindows Motif V1.2-3 for OpenVMS installation procedure

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**** Supported OpenVMS Version 6.1 DETECTED ****

Example A–1 (Cont.) Sample Installation Using the POLYCENTER Software Installation Utility on an OpenVMS Alpha System

**** DECwindows Motif application and run-time support files DETECTED ****

**** DECwindows device support files DETECTED ****

- NOTE: DECwindows Motif will not start if your system parameters are not set correctly.
- o If you allow a system shutdown, the installation procedure reboots the system at the end of the installation. If your system parameters are incorrect, the installation runs AUTOGEN prior to the system reboot.
- o If you do not allow a system shutdown, the installation procedure continues; you are informed at the end of the installation whether you need to modify your system parameters to start DECwindows Motif.
- Will you allow a system reboot after this product is installed? Yes Return

To answer the following question, enter the directory specification of the DECwindows Motif for OpenVMS POLYCENTER Software Installation utility kit.

Answer the following question with the location of the DECwindows Motif for OpenVMS PCSI kit.

Where is the PCSI kit located? DAD1:[000000] Return

Caution: POLYCENTER Software installations differ from VMSINSTAL installations in one major area: in POLYCENTER Software installations, files are deleted from your system disk unless you specifically answer "Yes" to the questions that ask if you want to install the support. Although the support may exist on your previous kit, answer "Yes" to each question. If you answer "No," the files are deleted from the your system disk using the POLYCENTER Software Installation history file. With VMSINSTAL installations, the previous files are not deleted.

For example, if your previous kit included programming support for all languages except Fortran and you want to add Fortran support and keep the previous programming support, answer "Yes" to the question that asks if you want to install Fortran programming support. Also answer "Yes" to the other questions that pertain to parts of the kit that want to keep on your system.

The following product has been selected: DEC AXPVMS DWMOTIF V1.2-3

Do you want to continue? [Yes] Return

Example A–1 (Cont.) Sample Installation Using the POLYCENTER Software Installation Utility on an OpenVMS Alpha System

*** DEC AXPVMS DWMOTIF V1.2-3: DECwindows Motif V1.2-3 for OpenVMS AXP Copyright Digital Equipment Corporation 1988, 1995. All rights reserved. Digital Equipment Corporation This product uses the PAK: DW-MOTIF Do you want all the default values for this product? [Yes] Return DECwindows Motif runtime support files: Yes Return Programming Support (C Language): Yes Return Fortran programming support: Yes Return PASCAL programming support: Yes Return Programming examples: Yes Return Translated Image Support (OSF/Motif V1.1.3): Yes Return Do you want to view the values? [No] Yes Return DEC AXPVMS DWMOTIF V1.2-3: DECwindows Motif V1.2-3 for OpenVMS AXP DECwindows Motif runtime support files: Yes Programming Support (C Language): Yes Fortran programming support: Yes Pascal programming support: Yes Programming examples: Yes Translated Image Support (OSF/Motif V1.1.3): Yes Are you satisfied with the values? [YES] Yes Return %PCSIUI-I-DONEASK, execution phase starting The following product will be installed: DEC AXPVMS DWMOTIF V1.2-3 %PCSI-I-VOLINFO, estimated space information for volume DISK\$AXP_V61
-PCSI-I-VOLSPC, 129661 required; 1567533 available; 1437872 net Portion Done: 0% ...10% ...20% ...30% ...40% ...50% ...60% ...70% ...80% ...90% ...100% The following product has been installed: DEC AXPVMS DWMOTIF V1.2-3

Example A–1 (Cont.) Sample Installation Using the POLYCENTER Software Installation Utility on an OpenVMS Alpha System

Run the Installation Verification Procedure (IVP) after the installation is completed and DECwindows Motif is restarted. The IVP is located in the following directory: SYS\$TEST:DECW\$IVP.COM.

Checking to see if your system parameters are set correctly....

The installation procedure has determined that your system parameter values are acceptable. A reboot of the system is not required.

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

* * * N O T E * * *

If you are installing DECwindows Motif from your workstation console, log off after you enter the command to start DECwindows Motif.

@SYS\$MANAGER:DECW\$STARTUP RESTART

Restarting the DECwindows Software stops everything displaying on your workstation. Do you really want to restart the DECwindows Software? Yes Return

Restarting DECwindows Software, server 0. Please wait. %RUN-S-PROC_ID, identification of created process is 00000067 Logout

SYSTEM logged out at 19-JAN-1995 18:05:00.7

B

VMSINSTAL Sample Installation

This appendix contains a sample Product Authorization Key (PAK) registration and a product installation.

B.1 Sample Product Authorization Key Registration

Example B–1 contains a sample registration of a DECwindows Motif Version 1.2–3 for OpenVMS PAK.

Example B–1 Sample Product Authorization Key Registration

\$ @SYS\$UPDATE:VMSLICENSE.COM

VMS License Management Utility Options:

1. REGISTER a Product Authorization Key

2. AMEND an existing Product Authorization Key

- 3. CANCEL an existing Product Authorization Key
- 4. LIST the Product Authorization Keys
- 5. MODIFY an existing Product Authorization Key
- 6. DISABLE an existing Product Authorization Key
- 7. DELETE an existing Product Authorization Key
- 8. COPY an existing Product Authorization Key
- 9. MOVE an existing Product Authorization Key
- 10. ENABLE an existing Product Authorization Key
- 11. SHOW the licenses loaded on this node
- 12. SHOW the unit requirements for this node
- 99. EXIT this procedure

Type '?' at any prompt for a description of the information requested. Press Ctrl/Z at any prompt to exit this procedure.

Enter one of the above choices [1] Return Do you have your Product Authorization Key? [Yes] Return

Example B-1 (Cont.) Sample Product Authorization Key Registration

The REGISTER option allows you add a new license to a license database. A Product Authorization Key (PAK) provides the product name and information you need to register the license. You must enter all the information provided by your PAK exactly as specified.

| PAK ID: |
|--|
| Issuer [DEC] [Return] Authorization Number [] LAB030419 [Return] |
| PRODUCT ID: |
| Product Name [] DW-MOTIF Return |
| Producer [DEC] Return |
| NUMBER OF UNITS: |
| Number of Units [] 400 Return |
| KEY LEVEL: |
| Version [] Return |
| PRODUCT RELEASE DATE: [] Return |
| KEY TERMINATION DATE: Key Termination Date [] Return |
| RATING: |
| Availability Table Code [] H [Return] Activity Table Code [] [Return] |
| MISCELLANEOUS |
| Key Options [] Return |
| Product Token [] Return |
| Hardware-Id [] <u>Return</u> |
| Checksum [] 2-Ibic-Oann-enwj-liea Return |
| License Database File: SYS\$COMMON:[SYSEXE]LMF\$LICENSE.LDB |
| Issuer: DEC |
| Producer: DEC |
| Product Name: DW-MOTIF |
| Units: 400 |
| Date: |
| Version: |
| Availability. H |
| Activity: |
| Options: |
| Token: |
| Hardware ID: Chockeym, 2-FRIC-ODNU-ENNUT-LIFD |
| CHECKPAIL: 7-LPTC-ODMH-FMM0-THEP |

Example B-1 (Cont.) Sample Product Authorization Key Registration

Is this information correct? [Yes] Return Registering DW-MOTIF license in SYS\$COMMON:[SYSEXE]LMF\$LICENSE.LDB... Do you want to LOAD this license on this system? [Yes] Return %LICENSE-I-LOADED, DEC DW-MOTIF was successfully loaded with 400 units

VMS License Management Utility Options:

REGISTER a Product Authorization Key
 AMEND an existing Product Authorization Key
 CANCEL an existing Product Authorization Key
 LIST the Product Authorization Keys
 MODIFY an existing Product Authorization Key
 DISABLE an existing Product Authorization Key
 DELETE an existing Product Authorization Key
 COPY an existing Product Authorization Key
 MOVE an existing Product Authorization Key
 MOVE an existing Product Authorization Key
 ENABLE an existing Product Authorization Key
 ENABLE an existing Product Authorization Key
 SHOW the licenses loaded on this node
 SHOW the unit requirements for this node
 EXIT this procedure

requested. Press Ctrl/Z at any prompt to exit this procedure.

Enter one of the above choices [1] 99 Return \$

B.2 Sample Installation

Example B–2 contains a sample installation of the DECwindows Motif Version 1.2–3 for OpenVMS software on an OpenVMS VAX Version 6.1 operating system using the VMSINSTAL procedure. The sample installation assumes that no users are logged in to the system and that you specified OPTIONS N to display the release notes.

Example B-2 Sample Installation

Example B-2 (Cont.) Sample Installation

\$ @SYS\$UPDATE:VMSINSTAL DWMOTIFVAXU3012

OpenVMS VAX Software Product Installation Procedure Version 6.1

It is 15-JAN-1995 at 13:42.

Enter a question mark (?) at any time for help. * Are you satisfied with the backup of your system disk [Yes]? Return

* Where will the distribution volumes be mounted: DAD2:[000000]

Enter the names of the product to be processed from the first distribution volume set. * Product: DWMOTIFVAXU3012

* Enter installation options you wish to use (None): Return

The following product will be processed: DWMOTIFVAXU3 V1.2

Beginning installation of DWMOTIFVAXU3 Version 1.2 at 13:44

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

*** Installing DECwindows Motif for OpenVMS VAX software ***

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You can install the DECwindows Motif kit completely or in selected portions. A complete installation requires as many as 68,400 blocks. If you choose to perform a partial installation, you can select (tailor) the programming support files that support your DECwindows Motif application development. Whether you perform a complete or partial installation, this kit provides support for running DECwindows Motif applications on OpenVMS compute servers.

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

You have selected the following portions of the kit:

o DECwindows Motif Applications and Run-time Libraries

Example B-2 (Cont.) Sample Installation

- o DECwindows Motif programming examples
- o DECwindows Motif programming support

Fortran, Pascal MIT C language programming conventions

* Are these selections correct [Yes]? Return

A registered and loaded product authorization key for DW-MOTIF is required to run any DECwindows Motif for OpenVMS application. If you answer No to the next question, the installation of DECwindows Motif for OpenVMS will be terminated.

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

* Does this product have an authorization key registered and loaded? Yes [Return]

DECwindows Motif will not start if your system parameters are not correct.

o If you allow a system shutdown, the installation procedure will reboot the system at the end of the installation. If your system parameters are incorrect, the installation will run AUTOGEN prior to the system reboot.

o If you do not allow a system shutdown, the installation procedure will continue, and you will be informed at the end of the installation whether you need to modify your system parameters in order to start DECwindows Motif.

To complete the installation of this product, you should reboot the system. If it is not convenient to reboot at this time, then enter No to the following question.

If you enter No, the installation procedure will continue.

* Will you allow a system shutdown after this product is installed [Yes]? No Return

No further questions will be asked.

Example B-2 (Cont.) Sample Installation

```
%VMSINSTAL-I-RESTORE, Restoring product save set B ...
%VMSINSTAL-I-RESTORE, Restoring product save set C ...
%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 I ...
%VMSINSTAL-I-RESTORE, Restoring product save set J ...
%VMSINSTAL-I-RESTORE, Restoring product save set J ...
%VMSINSTAL-I-MOVEFILES, Files will now be moved to their target directories...
```

You can safely ignore the following NCP error message(s):

%NCP-I-SUCCESS, Success Object = X\$X0 %NML-I-RECDELET, Database entry deleted

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.

The installation procedure has determined that your system parameters are set correctly and that it will not be necessary to run AUTOGEN or reboot the system.

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

* * * NOTE * * *

If you are installing DECwindows Motif from your workstation console, log off after you enter the command to start DECwindows Motif.

Installation of DWMOTIFVAXU3 V1.2 completed at 14:11

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

VMSINSTAL procedure done at 15:19

C Software Components

This appendix provides a table of software components that are available on DECwindows Motif Version 1.2–3 for OpenVMS. Table C–1 lists component classes. Table C–2 provides the directory, file name, description, and class of each component.

| Class | Description |
|---------|---------------------------------------|
| APPS | Application file |
| APPS-CB | Computer-based instruction (CBI) file |
| CDA | CDA support file |
| DVMS | Files also supplied by OpenVMS |
| INST | Installation and startup files |
| PGFO | Fortran programming support file |
| PGPA | Pascal programming support file |
| PRGM | C programming support file |
| RTL | Run-time support file |
| SND | Sound-editor support file |
| SND-DI | Device independent voice API file |
| TIS | Alpha translated-image support file |
| XMPL | DECwindows Motif example file |

Table C–1 DECwindows Motif Component Classes

| Directory | File Name | Description | Class |
|--------------|---------------------------|-----------------------------|-------------|
| CDA\$LIBRAR | Y | | |
| | CL_DAY.DOC_STYLE | Calendar day style | APPS |
| | DEFSTYLE.DDIF | DDIF document style guide | CDA |
| DECW\$BOOK | | | |
| | BOOKREADER. DECW\$BOOK | User's guide for Bookreader | APPS |
| | LIBRARY.DECW\$BOOKSHELF | Bookreader bookshelf | APPS |
| DECW\$CBI_SU | UPPORT | | |
| | DECW00010.CBI | CBI support | APPS- CB |
| | DECW00020.CBI | CBI support | APPS- CB |
| | DECW00030.CBI | CBI support | APPS- CB |
| | DECW00040.CBI | CBI support | APPS- CB |
| | DECW00040.DAT | CBI support | APPS- CB |
| | DECW00050.CBI | CBI support | APPS- CB |
| | DECW00050.DAT | CBI support | APPS- CB |
| | DECW00060.CBI | CBI support | APPS- CB |
| | DECW00060.DAT | CBI support | APPS- CB |
| | DECW00070.CBI | CBI support | APPS- CB |
| | DECW00070.DAT | CBI support | APPS- CB |

| Directory | File Name | Description | Class |
|-----------|---------------|-------------|-------------|
| | DECW00080.DAT | CBI support | APPS- CB |
| | DECW00090.DAT | CBI support | APPS- CB |
| | DECW00100.CBI | CBI support | APPS- CB |
| | DECW00100.DAT | CBI support | APPS- CB |
| | DECW00110.DAT | CBI support | APPS- CB |
| | DECW00120.DAT | CBI support | APPS- CB |
| | DECW00130.DAT | CBI support | APPS- CB |
| | DECW00140.DAT | CBI support | APPS- CB |
| | DECW00150.DAT | CBI support | APPS- CB |
| | DECW00160.DAT | CBI support | APPS- CB |
| | DECW00170.DAT | CBI support | APPS- CB |
| | DECW00180.DAT | CBI support | APPS- CB |
| | DECW00190.DAT | CBI support | APPS- CB |
| | DECW00230.CBI | CBI support | APPS- CB |
| | DECW00240.CBI | CBI support | APPS- CB |
| | DECW01010.CBI | CBI support | APPS- CB |
| | DECW01020.CBI | CBI support | APPS- CB |

Table C-2 (Cont.) DECwindows Motif Version 1.2-3 for OpenVMS Software Components

| Directory | File Name | Description | Class |
|-----------|---------------|-------------|-------------|
| | DECW01030.CBI | CBI support | APPS- CB |
| | DECW01040.CBI | CBI support | APPS- CB |
| | DECW02010.CBI | CBI support | APPS- CB |
| | DECW05010.CBI | CBI support | APPS- CB |
| | DECW06010.CBI | CBI support | APPS- CB |
| | DECW09010.CBI | CBI support | APPS- CB |
| | DECW09020.CBI | CBI support | APPS- CB |
| | DECW10010.CBI | CBI support | APPS- CB |
| | DECW10020.CBI | CBI support | APPS- CB |
| | DECW10030.CBI | CBI support | APPS- CB |
| | DECW12010.CBI | CBI support | APPS- CB |
| | DECW13010.CBI | CBI support | APPS- CB |
| | DECW13020.CBI | CBI support | APPS- CB |
| | DECWCBI.DATA | CBI support | APPS- CB |
| | | | |

DECW\$EXAMPLES

| 7X14RK.BDF | Programming example (Alpha font) | XMPL |
|------------------|-------------------------------------|------|
| 7X14RK.DECW\$BDF | Programming example (VAX font) | XMPL |

| Directory | File Name | Description | Class |
|-----------|----------------------|----------------------|-------|
| | ACCESSX.EXE | Programming example | XMPL |
| | ACCESSX.UID | Programming example | XMPL |
| | ALLOBJS.H | Programming example | XMPL |
| | APP.C | Programming example | XMPL |
| | APP.H | Programming example | XMPL |
| | AUTO-SQUEAL.AUD | Sound editor example | SND |
| | BARK.BM | Programming example | XMPL |
| | BASIC.H | Programming example | XMPL |
| | BELLS.AUD | Sound editor example | SND |
| | BIKE-HORN.AUD | Sound editor example | SND |
| | BIKE-HORN.AU | Sound editor example | SND |
| | BUILD_CUSTOMIZER.COM | Programming example | XMPL |
| | CHALLENGER.GIF | Programming example | XMPL |
| | CLIENT.UID | Programming example | XMPL |
| | CLIENT.UIL | Programming example | XMPL |
| | CLIENT_CB.C | Programming example | XMPL |
| | CLIENT_CB.H | Programming example | XMPL |
| | CLOCK.DDIF | DDIF example | APPS |
| | COWS.AUD | Sound editor example | SND |
| | CUSTOM.C | Programming example | XMPL |
| | CUSTOM.DAT | Programming example | XMPL |
| | CUSTOM.HLB | Programming example | XMPL |
| | CUSTOM.HLP | Programming example | XMPL |
| | CUSTOM.TXT | Programming example | XMPL |
| | CUSTOM.UIL | Programming example | XMPL |
| | CUSTOMIMAGE.DAT | Programming example | XMPL |
| | CUTPASTE.C | Programming example | XMPL |
| | CUTPASTE.EXE | Programming example | XMPL |
| | CUTPASTE.UID | Programming example | XMPL |
| | | | |

| Directory | File Name | Description | Class |
|-----------|------------------------------------|-----------------------------------|-------|
| | CUTPASTE.UIL | Programming example | XMPL |
| | CUTPASTE_LOCAL.UIL | Programming example | XMPL |
| | DECBURGER.COM | UIL DRM demo | XMPL |
| | DECBURGER.C | UIL demo source | XMPL |
| | DECBURGER.EXE | UIL DRM programming example image | XMPL |
| | DECBURGER.HLB | UIL DRM demo | XMPL |
| | DECBURGER.HLP | UIL DRM demo source | XMPL |
| | DECBURGER.UID | UIL DRM demo | XMPL |
| | DECBURGER.UIL | UIL DRM demo | XMPL |
| | DECBURGER_HELP. DECW\$BOOKSHELF | UIL DRM demo | XMPL |
| | DECBURGER_HELP. DECW\$BOOK | UIL DRM demo | XMPL |
| | DECW\$CDPLAYER.C | Programming example | XMPL |
| | DECW\$CDPLAYER.DAT | Demo resource file | XMPL |
| | DECW\$CDPLAYER.EXE | Programming example image | XMPL |
| | DECW\$CDPLAYER.H | Programming example | XMPL |
| | DECW\$CDPLAYER.UID | Programming example | XMPL |
| | DECW\$CDPLAYER.UIL | Programming example | XMPL |
| | DECW\$DXM_PORT.COM | Programming example | XMPL |
| | DECW\$DXM_PORT_CALL.EXE | Programming example image | XMPL |
| | DECW\$DXM_PORT_CLASS.EXE | Programming example image | XMPL |
| | DECW\$DXM_PORT_DATA.EXE | Programming example image | XMPL |
| | DECW\$DXM_PORT_DRM.EXE | Programming example image | XMPL |
| | DECW\$DXM_PORT_HILEVELS .EXE | Programming example image | XMPL |
| | DECW\$DXM_PORT_INCLUDES | Programming example image | XMPL |
| | EXE | | |

| Directory | File Name | Description | Class |
|-----------|---|-----------------------------|-------|
| | DECW\$DXM_PORT_LOLEVELS | Programming example image | XMPL |
| | .EXE | | |
| | DECW\$DXM_PORT_RESOURCES | 5 Programming example image | XMPL |
| | .EXE | | |
| | DECW\$DXM_PORT_UIL.EXE | Programming example image | XMPL |
| | DECW\$FONT_ALIAS_ CHARTER.DAT | Font alias file | DVMS |
| | DECW\$FONT_ALIAS_ CHARTER_100DPI.DAT | Font alias file | DVMS |
| | DECW\$FONT_ALIAS_ FILENAMES.DAT | Font alias file | DVMS |
| | DECW\$FONT_ALIAS_ KANJI.DAT | Font alias file | DVMS |
| | DECW\$FONT_ALIAS_ LUCIDA.DAT | Font alias file | DVMS |
| | DECW\$FONT_ALIAS_LUCIDA_ 100DPI.DAT | Font alias file | DVMS |
| | DEMO_BUILD.COM | Programming example | XMPL |
| | DIALOG.H | Programming example | XMPL |
| | DIALOGS.C | Programming example | XMPL |
| | DLG.C | Programming example | XMPL |
| | DLG.H | Programming example | XMPL |
| | DNDDEMO.C | Programming example | XMPL |
| | DNDDEMO.EXE | Programming example | XMPL |
| | DNDDEMO.H | Programming example | XMPL |
| | DNDDRAW.C | Programming example | XMPL |
| | DOG-HOWL.AUD | Sound editor example | SND |
| | DOG.C | Programming example | XMPL |
| | DOG.H | Programming example | XMPL |
| | DOG.UID | Programming example | XMPL |

Table C-2 (Cont.) DECwindows Motif Version 1.2-3 for OpenVMS Software Components

| Directory | File Name | Description | Class |
|-----------|----------------------|---------------------------|-------|
| | DOG.UIL | Programming example | XMPL |
| | DOGP.H | Programming example | XMPL |
| | DOGS.C | Programming example | XMPL |
| | DOGS.EXE | Programming example image | XMPL |
| | DOGS.UID | Programming example | XMPL |
| | DOGS.UIL | Programming example | XMPL |
| | DOG_ANIM.UIL | Programming example | XMPL |
| | DOWN.BM | Programming example | XMPL |
| | DXMDEFAULTS.DAT | Programming example | XMPL |
| | ENCODEFONT.PS | Coding example PostScript | XMPL |
| | FACTORY-WHISTLE.AUD | Sound editor example | SND |
| | FILEE.H | Programming example | XMPL |
| | FILEVIEW.COM | Programming example | XMPL |
| | FILEVIEW.C | Programming example | XMPL |
| | FILEVIEW.DAT | Programming example | XMPL |
| | FILEVIEW.EXE | Programming example | XMPL |
| | FILEVIEW.H | Programming example | XMPL |
| | FILEVIEW.UID | Programming example | XMPL |
| | FILEVIEW_ENGLISH.DAT | Programming example | XMPL |
| | FILEVIEW_ENGLISH.UID | Programming example | XMPL |
| | FILEVIEW_ENGLISH.UIL | Programming example | XMPL |
| | FILEVIEW_FRENCH.DAT | Programming example | XMPL |
| | FILEVIEW_FRENCH.UID | Programming example | XMPL |
| | FILEVIEW_FRENCH.UIL | Programming example | XMPL |
| | FILEVIEW_GERMAN.DAT | Programming example | XMPL |
| | FILEVIEW_GERMAN.UID | Programming example | XMPL |
| | FILEVIEW_GERMAN.UIL | Programming example | XMPL |
| | FONTS.ALIAS | Font alias file | DVMS |
| | FROG.AUD | Sound editor example | SND |
| Directory | File Name | Description | Class |
|-----------|--------------------------|----------------------------------|-------|
| | HEB8X13.BDF | Programming example (Alpha font) | XMPL |
| | HEB8X13.DECW\$BDF | Programming example (VAX font) | XMPL |
| | HELLOINT.C | Programming example | XMPL |
| | HELLOINT.EXE | Programming example | XMPL |
| | HELLOINT.UID | Programming example | XMPL |
| | HELLOINT.UIL | Programming example | XMPL |
| | HELLOMOTIF.C | Programming example | XMPL |
| | HELLOMOTIF.EXE | Programming example | XMPL |
| | HELLOMOTIF.FOR | XUI Toolkit demo source | XMPL |
| | HELLOMOTIF.PAS | XUI Toolkit demo source | XMPL |
| | HELLOMOTIF.UID | Programming example | XMPL |
| | HELLOMOTIF.UIL | XUI Toolkit demo source | XMPL |
| | HELP.TXT | Programming example | XMPL |
| | ICO.C | Programming example | XMPL |
| | ICO.EXE | Programming example image | XMPL |
| | ICON.XBM | Demo image | XMPL |
| | IMAGE.C | Programming example | XMPL |
| | JET-FLYBY.AUD | Sound editor example | SND |
| | K14-1.BDF | Programming example (Alpha font) | XMPL |
| | K14-1.DECW\$BDF | Programming example (VAX font) | XMPL |
| | LASER.AUD | Sound editor example | SND |
| | LOCALSTRINGS.UID | Programming example | XMPL |
| | LOCALSTRINGS_ENGLISH.UID | Programming example | XMPL |
| | LOCALSTRINGS_ENGLISH.UIL | Programming example | XMPL |
| | LOCALSTRINGS_FRENCH.UID | Programming example | XMPL |
| | LOCALSTRINGS_FRENCH.UIL | Programming example | XMPL |

| Directory | File Name | Description | Class |
|-----------|-------------------------|---------------------------|-------|
| | LOCALSTRINGS_HEBREW.UID | Programming example | XMPL |
| | LOCALSTRINGS_HEBREW.UIL | Programming example | XMPL |
| | LOCALSTRINGS_JAPAN.UID | Programming example | XMPL |
| | LOCALSTRINGS_JAPAN.UIL | Programming example | XMPL |
| | MAIN.H | Programming example | XMPL |
| | MAINE.H | Programming example | XMPL |
| | MEMBERSHIP.TXT | Programming example | XMPL |
| | MENU.UID | Programming example | XMPL |
| | MENU.UIL | Programming example | XMPL |
| | MENU_CB.C | Programming example | XMPL |
| | MENU_CB.H | Programming example | XMPL |
| | MOTIF.TXT | Programming example | XMPL |
| | MOTIFANIM.C | Programming example | XMPL |
| | MOTIFANIM.EXE | Programming example image | XMPL |
| | MOTIFANIM.UID | Programming example | XMPL |
| | MOTIFANIM.UIL | Programming example | XMPL |
| | MOTIFBUR.C | Programming example | XMPL |
| | MOTIFBUR.EXE | Programming example | XMPL |
| | MOTIFBUR.UID | Programming example | XMPL |
| | MOTIFBUR.UIL | Programming example | XMPL |
| | MOTIFBURGER.FOR | Programming example | XMPL |
| | MOTIFBURGER.UIL | Programming example | XMPL |
| | MOTIFBURGER_DEFS.FOR | Programming example | XMPL |
| | MOTIFGIF.C | Programming example | XMPL |
| | MOTIFGIF.EXE | Programming example image | XMPL |
| | MOTIFGIF.H | Programming example | XMPL |
| | MOTIFLOGO.UIL | Programming example | XMPL |
| | MOTIFSHELL.C | Programming example | XMPL |
| | MOTIFSHELL.EXE | Programming example | XMPL |

Table C-2 (Cont.) DECwindows Motif Version 1.2-3 for OpenVMS Software Components

| Directory | File Name | Description | Class |
|-----------|--------------------|---------------------------|-------|
| | MOTIFSHELL.H | Programming example | XMPL |
| | OBJCUBE.H | Programming example | XMPL |
| | OBJICO.H | Programming example | XMPL |
| | OBJOCTA.H | Programming example | XMPL |
| | OBJPLANE.H | Programming example | XMPL |
| | OBJPYR.H | Programming example | XMPL |
| | PERIODIC.C | Programming example | XMPL |
| | PERIODIC.DAT | Programming example | XMPL |
| | PERIODIC.EXE | Programming example image | XMPL |
| | PERIODIC.UID | Programming example | XMPL |
| | PERIODIC.UIL | Programming example | XMPL |
| | PERIODIC_LOCAL.UIL | Programming example | XMPL |
| | PICT.COM | Programming example | XMPL |
| | PICT.C | Programming example | XMPL |
| | PICT.EXE | Programming example image | XMPL |
| | PICT.H | Programming example | XMPL |
| | PICTGLOB.H | Programming example | XMPL |
| | PLANE.UID | Programming example | XMPL |
| | PLANE.UIL | Programming example | XMPL |
| | POLICE-WHISTLE.AUD | Sound editor example | SND |
| | POLYINFO.H | Programming example | XMPL |
| | PRINCIPLES.TXT | Programming example | XMPL |
| | RESEARCH.TXT | Programming example | XMPL |
| | SQUARE.C | Programming example | XMPL |
| | SQUARE.H | Programming example | XMPL |
| | SQUARE.UIL | Programming example | XMPL |
| | SQUAREP.H | Programming example | XMPL |
| | STREAM.FDL | Programming example | XMPL |
| | STRINGS.UIL | Programming example | XMPL |

Table C-2 (Cont.) DECwindows Motif Version 1.2-3 for OpenVMS Software Components

| Directory | File Name | Description | Class |
|-----------|--------------------|---------------------------|-------|
| | SUPERMAN.UID | Programming example | XMPL |
| | SUPERMAN.UIL | Programming example | XMPL |
| | SUPERMAN1.XBM | Programming example | XMPL |
| | SUPERMAN2.XBM | Programming example | XMPL |
| | SUPERMAN3.XBM | Programming example | XMPL |
| | SUPERMAN4.XBM | Programming example | XMPL |
| | SUPERMAN5.XBM | Programming example | XMPL |
| | SUPERMAN6.XBM | Programming example | XMPL |
| | SVNMSAMPLE.C | Programming example | XMPL |
| | SVNMSAMPLE.EXE | Programming example image | XMPL |
| | SVNMSAMPLESOURCE.C | Programming example | XMPL |
| | TERRE.XBM | Programming example | XMPL |
| | TEXT.C | Programming example | XMPL |
| | TEXTE.H | Programming example | XMPL |
| | TEXTEDIT.C | Programming example | XMPL |
| | TEXTEDIT.EXE | Programming example | XMPL |
| | TEXTEDIT.UID | Programming example | XMPL |
| | TEXTEDIT.UIL | Programming example | XMPL |
| | TFILE.C | Programming example | XMPL |
| | TFILE.H | Programming example | XMPL |
| | TK.C | Programming example | XMPL |
| | TK.H | Programming example | XMPL |
| | TKDEF.H | Programming example | XMPL |
| | TOUCAN.GIF | Programming example | XMPL |
| | TRIP.UID | Programming example | XMPL |
| | TRIP.UIL | Programming example | XMPL |
| | TRIP_CB.C | Programming example | XMPL |
| | TRIP_CB.H | Programming example | XMPL |
| | UILWMDCREATE.COM | Programming example | XMPL |

| Directory | File Name | Description | Class |
|-----------|------------------|----------------------|-------|
| | UILWMDCREATE.C | Programming example | XMPL |
| | UP.BM | Programming example | XMPL |
| | VFILE.C | Programming example | XMPL |
| | VFILE.H | Programming example | XMPL |
| | VTEXT.H | Programming example | XMPL |
| | WELCOME.TXT | Programming example | XMPL |
| | WHISTLE-DOWN.AUD | Sound editor example | SND |
| | WHISTLE-UP.AUD | Sound editor example | SND |
| | XGIF.H | Programming example | XMPL |
| | XGIFLOAD.C | Programming example | XMPL |
| | XLIBINTRO.C | Programming example | XMPL |
| | XLIBINTRO.EXE | Programming example | XMPL |
| | XLIBINTRO.FOR | Programming example | XMPL |
| | XMAPDEF.C | Programming example | XMPL |
| | XMAPDEF.EXE | Programming example | XMPL |
| | XMDEMOS.DAT | Programming example | XMPL |
| | XMDIALOGS.C | Programming example | XMPL |
| | XMDIALOGS.EXE | Programming example | XMPL |
| | XMEDITOR.C | Programming example | XMPL |
| | XMEDITOR.EXE | Programming example | XMPL |
| | XMFONTS.C | Programming example | XMPL |
| | XMFONTS.EXE | Programming example | XMPL |
| | XMFORC.C | Programming example | XMPL |
| | XMFORC.EXE | Programming example | XMPL |
| | XMFORM.C | Programming example | XMPL |
| | XMFORM.EXE | Programming example | XMPL |
| | XMGETRES.C | Programming example | XMPL |
| | XMGETRES.EXE | Programming example | XMPL |
| | XMLIST.C | Programming example | XMPL |

| Directory | File Name | Description | Class |
|------------|-----------------|---------------------|-------|
| | XMLIST.EXE | Programming example | XMPL |
| | XMMAP.C | Programming example | XMPL |
| | XMMAP.EXE | Programming example | XMPL |
| | XMPIANO.C | Programming example | XMPL |
| | XMPIANO.EXE | Programming example | XMPL |
| | XMPIANO.XBM | Programming example | XMPL |
| | XMPROTOCOL.C | Programming example | XMPL |
| | XMPROTOCOL.EXE | Programming example | XMPL |
| | XMTER.C | Programming example | XMPL |
| | XMTER.EXE | Programming example | XMPL |
| | XMTRAVEL.C | Programming example | XMPL |
| | XMTRAVEL.DAT | Programming example | XMPL |
| | XMTRAVEL.EXE | Programming example | XMPL |
| | XMTRAVEL.H | Programming example | XMPL |
| | XSETROOT_CUST.C | Programming example | XMPL |
| DECW\$INCL | UDE.BITMAPS | | |
| | 1X1.XBM | Programming example | XMPL |
| | 2X2.XBM | Programming example | XMPL |
| | BLACK.XBM | Programming example | XMPL |
| | BOXES.XBM | Programming example | XMPL |
| | CALCULATOR.XBM | Programming example | XMPL |
| | CNTR_PTR.XBM | Programming example | XMPL |
| | CNTR_PTRMSK.XBM | Programming example | XMPL |
| | CROSS_WEAVE.XBM | Programming example | XMPL |
| | DIMPLE1.XBM | Programming example | XMPL |
| | DIMPLE3.XBM | Programming example | XMPL |
| | DOT.XBM | Programming example | XMPL |
| | DROPBAR7.XBM | Programming example | XMPL |
| | | | |

| Directory | File Name | Description | Class |
|-----------|------------------|---------------------|-------|
| | DROPBAR8.XBM | Programming example | XMPL |
| | EDIT.XBM | Programming example | XMPL |
| | ESCHERKNOT.XBM | Programming example | XMPL |
| | FLAGDOWN.XBM | Programming example | XMPL |
| | FLAGUP.XBM | Programming example | XMPL |
| | FLIPPED_GRAY.XBM | Programming example | XMPL |
| | GRAY.XBM | Programming example | XMPL |
| | GRAY1.XBM | Programming example | XMPL |
| | GRAY3.XBM | Programming example | XMPL |
| | HLINES2.XBM | Programming example | XMPL |
| | KEYBOARD16.XBM | Programming example | XMPL |
| | LEFT_PTR.XBM | Programming example | XMPL |
| | LEFT_PTRMSK.XBM | Programming example | XMPL |
| | LETTERS.XBM | Programming example | XMPL |
| | LIGHT_GRAY.XBM | Programming example | XMPL |
| | MAILEMPTY.XBM | Programming example | XMPL |
| | MAILEMPTYMSK.XBM | Programming example | XMPL |
| | MAILFULL.XBM | Programming example | XMPL |
| | MAILFULLMSK.XBM | Programming example | XMPL |
| | MENSETMANUS.XBM | Programming example | XMPL |
| | MENU10.XBM | Programming example | XMPL |
| | MENU12.XBM | Programming example | XMPL |
| | MENU16.XBM | Programming example | XMPL |
| | MENU8.XBM | Programming example | XMPL |
| | NOLETTERS.XBM | Programming example | XMPL |
| | OPENDOT.XBM | Programming example | XMPL |
| | OPENDOTMASK.XBM | Programming example | XMPL |
| | PLAID.XBM | Programming example | XMPL |
| | RIGHT_PTR.XBM | Programming example | XMPL |

| Directory | File Name | Description | Class |
|------------|------------------|---------------------|---------------|
| | RIGHT_PTRMSK.XBM | Programming example | XMPL |
| | ROOT_WEAVE.XBM | Programming example | XMPL |
| | SCALES.XBM | Programming example | XMPL |
| | SIPB.XBM | Programming example | XMPL |
| | STAR.XBM | Programming example | XMPL |
| | STARMASK.XBM | Programming example | XMPL |
| | STIPPLE.XBM | Programming example | XMPL |
| | TARGET.XBM | Programming example | XMPL |
| | TERMINAL.XBM | Programming example | XMPL |
| | TIE_FIGHTER.XBM | Programming example | XMPL |
| | VLINES2.XBM | Programming example | XMPL |
| | VLINES3.XBM | Programming example | XMPL |
| | WEIRD_SIZE.XBM | Programming example | XMPL |
| | WIDE_WEAVE.XBM | Programming example | XMPL |
| | WINGDOGS.XBM | Programming example | XMPL |
| | WOMAN.XBM | Programming example | XMPL |
| | XFD_ICON.XBM | Programming example | XMPL |
| | XLOGO11.XBM | Programming example | XMPL |
| | XLOGO16.XBM | Programming example | XMPL |
| | XLOGO32.XBM | Programming example | XMPL |
| | XLOGO64.XBM | Programming example | XMPL |
| DECW\$INCL | UDE.EXTENSIONS | | |
| | EXTUTIL.H | Programming support | PRGM |
| | IPC.H | Programming support | PRGM |
| | MITMISC.H | Programming support | PRGM |
| | MITMISCSTR.H | Programming support | PRGM |
| | MULTIBUF.H | Programming support | PRGM |
| | MULTIBUFST.H | Programming support | PRGM |
| | | (continued o | on next page) |

| Directory | File Name | Description | Class |
|-------------|--------------|--------------------------------|-------|
| | SHAPE.H | Programming support | PRGM |
| | SHAPESTR.H | Programming support | PRGM |
| | SHM.H | Programming support | PRGM |
| | SHMSTR.H | Programming support | PRGM |
| | XEXT.H | Programming support | PRGM |
| | XI.H | Programming support | PRGM |
| | XINPUT.H | Programming support | PRGM |
| | XIPROTO.H | Programming support | PRGM |
| | XSHM.H | Programming support | PRGM |
| | XTEST.H | Programming support | PRGM |
| | XTESTEXT1.H | Programming support | PRGM |
| | XTESTSTR.H | Programming support | PRGM |
| DECW\$INCLU | JDE.XMU | | |
| | ATOMS.H | C language include file | XMPL |
| | CHARSET.H | C language include file | XMPL |
| | CLOSEHOOK.H | C language include file | XMPI |
| | CONVERTERS.H | C language include file | XMPI |
| | CURUTIL.H | C language include file | XMPI |
| | CVTCACHE.H | C language include file | XMPI |
| | DISPLAYQUE.H | C language include file | XMPI |
| | DRAWING.H | C language include file | XMPI |
| | ERROR.H | C language include file | XMPI |
| | INITER.H | C language include file | XMPI |
| | MISC.H | C language include file | XMPI |
| | STDCMAP.H | C language include file | XMPI |
| | STDSEL.H | C language include file | XMPI |
| | SYSUTIL.H | C language include file | XMPI |
| | | Classification de Angla de Ale | VMDI |

| Directory | File Name | Description | Class |
|------------|--------------|-------------------------|-------|
| | ХСТ.Н | C language include file | XMPL |
| | XMU.H | C language include file | XMPL |
| DECW\$INCL | UDE | | |
| | APIENVRST.H | C language include file | PRGM |
| | APIENVSET.H | C language include file | PRGM |
| | ARROWB.H | C language include file | PRGM |
| | ARROWBG.H | C language include file | PRGM |
| | ARROWBGP.H | C language include file | PRGM |
| | ARROWBP.H | C language include file | PRGM |
| | ATOMMGR.H | C language include file | PRGM |
| | ATOMMGRI.H | C language include file | PRGM |
| | BASECLASSI.H | C language include file | PRGM |
| | BASECLASSP.H | C language include file | PRGM |
| | BITMAPS.H | C language include file | PRGM |
| | BITMAPSI.H | C language include file | PRGM |
| | BULLETINB.H | C language include file | PRGM |
| | BULLETINBP.H | C language include file | PRGM |
| | CACHEP.H | C language include file | PRGM |
| | CALLBACKI.H | C language include file | PRGM |
| | CASCADEB.H | C language include file | PRGM |
| | CASCADEBG.H | C language include file | PRGM |
| | CASCADEBGP.H | C language include file | PRGM |
| | CASCADEBP.H | C language include file | PRGM |
| | COLOROBJ.H | C language include file | PRGM |
| | COLOROBJP.H | C language include file | PRGM |
| | COMMAND.H | C language include file | PRGM |
| | COMMANDP.H | C language include file | PRGM |
| | COMPOBJ.H | C language include file | PRGM |

| Directory | File Name | Description | Class |
|-----------|--------------------|-------------------------|-------|
| | COMPOBJP.H | C language include file | PRGM |
| | COMPOSITE.H | C language include file | PRGM |
| | COMPOSITEP.H | C language include file | PRGM |
| | CONSTRAINP.H | C language include file | PRGM |
| | CONSTRAINT.H | C language include file | PRGM |
| | CONVERT.H | C language include file | PRGM |
| | CORE.H | C language include file | PRGM |
| | COREP.H | C language include file | PRGM |
| | CURSORFONT.H | C language include file | PRGM |
| | CUTPASTE.H | C language include file | PRGM |
| | CUTPASTEP.H | C language include file | PRGM |
| | D2DX.H | C language include file | PRGM |
| | D2DXSTR.H | C language include file | PRGM |
| | DECSPECIFIC.H | C language include file | PRGM |
| | DECW\$GBLSTRINGS.H | C language include file | PRGM |
| | DECWI18N.H | C language include file | PRGM |
| | DECWMHINTS.H | C language include file | PRGM |
| | DESKTOPP.H | C language include file | PRGM |
| | DIALOGS.H | C language include file | PRGM |
| | DIALOGSEP.H | C language include file | PRGM |
| | DIALOGSP.H | C language include file | PRGM |
| | DISPLAY.H | C language include file | PRGM |
| | DISPLAYI.H | C language include file | PRGM |
| | DISPLAYP.H | C language include file | PRGM |
| | DRAGBSI.H | C language include file | PRGM |
| | DRAGC.H | C language include file | PRGM |
| | DRAGCI.H | C language include file | PRGM |
| | DRAGCP.H | C language include file | PRGM |
| | DRAGDROP.H | C language include file | PRGM |
| | | | |

| Directory | File Name | Description | Class |
|-----------|-----------------|---------------------------|-------|
| | DRAGICCI.H | C language include file | PRGM |
| | DRAGICON.H | C language include file | PRGM |
| | DRAGICONP.H | C language include file | PRGM |
| | DRAGOVERS.H | C language include file | PRGM |
| | DRAGOVERSP.H | C language include file | PRGM |
| | DRAGUNDERI.H | C language include file | PRGM |
| | DRAWINGA.H | C language include file | PRGM |
| | DRAWINGAP.H | C language include file | PRGM |
| | DRAWNB.H | C language include file | PRGM |
| | DRAWNBP.H | C language include file | PRGM |
| | DRAWP.H | C language include file | PRGM |
| | DROPSMGR.H | C language include file | PRGM |
| | DROPSMGRI.H | C language include file | PRGM |
| | DROPSMGRP.H | C language include file | PRGM |
| | DROPTRANS.H | C language include file | PRGM |
| | DROPTRANSP.H | C language include file | PRGM |
| | DXMCOLOR.H | C language include file | PRGM |
| | DXMCOLORP.H | C language include file | PRGM |
| | DXMCSTEXT.H | C language include file | PRGM |
| | DXMCSTEXTP.H | C language include file | PRGM |
| | DXMHELPB.H | C language include file | PRGM |
| | DXMHELPBP.H | C language include file | PRGM |
| | DXMHELPSP.H | C language include file | PRGM |
| | DXMPRINT.H | C language include file | PRGM |
| | DXMPRINTP.H | C language include file | PRGM |
| | DXMSVN.H | C language include file | PRGM |
| | DXMSVNP.H | C language include file | PRGM |
| | DXMXLATARG.UIL | UIL language include file | PRGM |
| | DXMXLATTEXT.UIL | UIL language include file | PRGM |
| | | | |

Table C-2 (Cont.) DECwindows Motif Version 1.2-3 for OpenVMS Software Components

| Directory | File Name | Description | Class |
|-----------|--------------|-------------------------|-------|
| | EVENT.H | C language include file | PRGM |
| | EXTOBJECT.H | C language include file | PRGM |
| | EXTOBJECTP.H | C language include file | PRGM |
| | FILENVRST.H | C language include file | PRGM |
| | FILENVSET.H | C language include file | PRGM |
| | FILESB.H | C language include file | PRGM |
| | FILESBP.H | C language include file | PRGM |
| | FORM.H | C language include file | PRGM |
| | FORMP.H | C language include file | PRGM |
| | FRAME.H | C language include file | PRGM |
| | FRAMEP.H | C language include file | PRGM |
| | GADGETP.H | C language include file | PRGM |
| | GETSECRES.H | C language include file | PRGM |
| | GMUTILSI.H | C language include file | PRGM |
| | ICONFILE.H | C language include file | PRGM |
| | ICONFILEP.H | C language include file | PRGM |
| | IDB.H | C language include file | PRGM |
| | INTRINSIC.H | C language include file | PRGM |
| | INTRINSICP.H | C language include file | PRGM |
| | KEYSYM.H | C language include file | PRGM |
| | KEYSYMDEF.H | C language include file | PRGM |
| | LABEL.H | C language include file | PRGM |
| | LABELDICOI.H | C language include file | PRGM |
| | LABELG.H | C language include file | PRGM |
| | LABELGP.H | C language include file | PRGM |
| | LABELP.H | C language include file | PRGN |
| | LIST.H | C language include file | PRGN |
| | LISTDICONI.H | C language include file | PRGN |
| | LISTP.H | C language include file | PRGN |
| | | | |

| MAINW.H C language include file PRG MAINWP.H C language include file PRG MANAGERP.H C language include file PRG MENUSHELL.H C language include file PRG MENUSHELL.H C language include file PRG MENUSHELL.H C language include file PRG MENUUTILP.H C language include file PRG MESSAGEB.H C language include file PRG MRM.H C language include file PRG MRM.H C language include file PRG MRM.H C language include file PRG MRMAPPL.H C language include file PRG MRMPUBLIC.H C language include file PRG MRMUTIL.H C language include file PRG OBJECT.H C language include file PRG | ile l |
|--|-------|
| MAINWP.HC language include filePRGMANAGERP.HC language include filePRGMENUSHELL.HC language include filePRGMENUSHELLP.HC language include filePRGMENUUTILP.HC language include filePRGMESSAGEB.HC language include filePRGMESSAGEBP.HC language include filePRGMESSAGESI.HC language include filePRGMRM.HC language include filePRGMRMDECLS.HC language include filePRGMRMUDGET.HC language include filePRGMRMUTIL.HC language include filePRGOBJECTP.HC language include filePRGOBJECTP.HC language include filePRGPANEDW.HC language include filePRGPANEDW.HC language include filePRGPANEDW.HC language include filePRGPANEDW.HC language include filePRGPROTOCOLS.HC language include filePRGPUSHB.H | ЛАП |
| MANAGERP.HC language include filePRGMENUSHELL.HC language include filePRGMENUSHELL.P.HC language include filePRGMENUUTILP.HC language include filePRGMESSAGEB.HC language include filePRGMESSAGEB.HC language include filePRGMESSAGESI.HC language include filePRGMRM.HC language include filePRGMRMDECLS.HC language include filePRGMRMUDGET.HC language include filePRGMWMUTIL.HC language include filePRGOBJECT.HC language include filePRGOBJECT.HC language include filePRGPANEDW.HC language include filePRGPANEDW.HC language include filePRGPROTOCOLS.HC language include filePRGPROTOCOLS.HC language include filePRGPROTOCOLS.P.HC language include filePRGPUSHB.HC language include filePRGPUSHB.HC language include filePRGPUSHB.HC language include filePRGPUSHB.HC language include filePRGPUSHB.H <td>ЛАП</td> | ЛАП |
| MENUSHELL.HC language include filePRGMENUSHELL.P.HC language include filePRGMENUUTIL.P.HC language include filePRGMESSAGEB.HC language include filePRGMESSAGEB.HC language include filePRGMESSAGESI.HC language include filePRGMRM.HC language include filePRGMRMDECLS.HC language include filePRGMRMPUBLIC.HC language include filePRGMRMWIDGET.HC language include filePRGOBJECT.HC language include filePRGOBJECT.HC language include filePRGOBJECT.HC language include filePRGPANEDW.HC language include filePRGPROTOCOLS.HC language include filePRGPROTOCOLSP.HC language include filePRGPUSHB.HC language include file <t< td=""><td>ИAN</td></t<> | ИAN |
| MENUSHELLP.HC language include filePRGMENUUTILP.HC language include filePRGMESSAGEB.HC language include filePRGMESSAGEBP.HC language include filePRGMESSAGESI.HC language include filePRGMRM.HC language include filePRGMRMDECLS.HC language include filePRGMRMUDELIC.HC language include filePRGMRMUTIL.HC language include filePRGOBJECT.HC language include filePRGOBJECT.HC language include filePRGPANEDW.HC language include filePRGPROTOCOLS.HC language include filePRGPUSHB.HC language include filePRG< | ИEN |
| MENUUTILP.HC language include filePRGMESSAGEB.HC language include filePRGMESSAGEBP.HC language include filePRGMESSAGESI.HC language include filePRGMRM.HC language include filePRGMRMAPPL.HC language include filePRGMRMDECLS.HC language include filePRGMRMUDELIC.HC language include filePRGMRMUDGET.HC language include filePRGOBJECT.HC language include filePRGOBJECT.HC language include filePRGPANEDW.HC language include filePRGPROTOCOLS.HC language include filePRGPUSHB.HC language include fi | ИEN |
| MESSAGEB.HC language include filePRGMESSAGEBP.HC language include filePRGMESSAGESI.HC language include filePRGMRM.HC language include filePRGMRMAPPL.HC language include filePRGMRMDECLS.HC language include filePRGMRMVIDGET.HC language include filePRGMWMUTIL.HC language include filePRGOBJECT.HC language include filePRGOBJECT.HC language include filePRGPANEDW.HC language include filePRGPRIMITIVEP.HC language include filePRGPROTOCOLS.HC language include filePRGPROTOCOLSP.HC language include filePRGPUSHB.HC language include filePRG | ИEN |
| MESSAGEBP.HC language include filePRGMESSAGESI.HC language include filePRGMRM.HC language include filePRGMRMAPPL.HC language include filePRGMRMDECLS.HC language include filePRGMRMUDGET.HC language include filePRGMWMUTIL.HC language include filePRGOBJECT.HC language include filePRGOBJECT.HC language include filePRGPANEDW.HC language include filePRGPROTOCOLS.HC language include filePRGPROTOCOLSP.HC language include filePRGPUSHB.HC language include filePRGPUSHB.HC language include filePRG | ЛES |
| MESSAGESI.HC language include filePRGMRM.HC language include filePRGMRMAPPL.HC language include filePRGMRMDECLS.HC language include filePRGMRMPUBLIC.HC language include filePRGMRMWIDGET.HC language include filePRGOBJECT.HC language include filePRGOBJECT.HC language include filePRGOBJECT.HC language include filePRGPANEDW.HC language include filePRGPROTOCOLS.HC language include filePRGPROTOCOLSP.HC language include filePRGPUSHB.HC language include filePRGPUSHB.HC language include filePRGPUSHB.HC language include filePRG | ЛES |
| MRM.HC language include filePRGMRMAPPL.HC language include filePRGMRMDECLS.HC language include filePRGMRMPUBLIC.HC language include filePRGMRMWIDGET.HC language include filePRGMWMUTIL.HC language include filePRGOBJECT.HC language include filePRGOBJECT.HC language include filePRGPANEDW.HC language include filePRGPANEDW.HC language include filePRGPRIMITIVEP.HC language include filePRGPROTOCOLS.HC language include filePRGPROTOCOLSP.HC language include filePRGPUSHB.HC language include filePRG | ЛES |
| MRMAPPL.HC language include filePRGMRMDECLS.HC language include filePRGMRMPUBLIC.HC language include filePRGMRMWIDGET.HC language include filePRGMWMUTIL.HC language include filePRGOBJECT.HC language include filePRGOBJECT.HC language include filePRGPANEDW.HC language include filePRGPANEDW.HC language include filePRGPRIMITIVEP.HC language include filePRGPROTOCOLS.HC language include filePRGPUSHB.HC language include filePRGPUSHB.HC language include filePRG | ИRN |
| MRMDECLS.HC language include filePRGMRMPUBLIC.HC language include filePRGMRMWIDGET.HC language include filePRGMWMUTIL.HC language include filePRGOBJECT.HC language include filePRGOBJECTP.HC language include filePRGPANEDW.HC language include filePRGPANEDW.HC language include filePRGPRIMITIVEP.HC language include filePRGPROTOCOLS.HC language include filePRGPROTOCOLSP.HC language include filePRGPUSHB.HC language include filePRGPUSHB.HC language include filePRG | ИRN |
| MRMPUBLIC.HC language include filePRGMRMWIDGET.HC language include filePRGMWMUTIL.HC language include filePRGOBJECT.HC language include filePRGOBJECTP.HC language include filePRGPANEDW.HC language include filePRGPANEDW.HC language include filePRGPANEDW.HC language include filePRGPRIMITIVEP.HC language include filePRGPROTOCOLS.HC language include filePRGPUSHB.HC language include filePRGPUSHB.HC language include filePRG | ИRN |
| MRMWIDGET.HC language include filePRGMWMUTIL.HC language include filePRGOBJECT.HC language include filePRGOBJECTP.HC language include filePRGPANEDW.HC language include filePRGPANEDWP.HC language include filePRGPRIMITIVEP.HC language include filePRGPROTOCOLS.HC language include filePRGPROTOCOLSP.HC language include filePRGPUSHB.HC language include filePRG | ARN |
| MWMUTIL.HC language include filePRGOBJECT.HC language include filePRGOBJECTP.HC language include filePRGPANEDW.HC language include filePRGPANEDWP.HC language include filePRGPRIMITIVEP.HC language include filePRGPROTOCOLS.HC language include filePRGPUSHB.HC language include filePRG | ARN |
| OBJECT.HC language include filePRGOBJECTP.HC language include filePRGPANEDW.HC language include filePRGPANEDWP.HC language include filePRGPRIMITIVEP.HC language include filePRGPROTOCOLS.HC language include filePRGPROTOCOLSP.HC language include filePRGPUSHB.HC language include filePRG | ИWN |
| OBJECTP.HC language include filePRGPANEDW.HC language include filePRGPANEDWP.HC language include filePRGPRIMITIVEP.HC language include filePRGPROTOCOLS.HC language include filePRGPROTOCOLSP.HC language include filePRGPUSHB.HC language include filePRG | OBJI |
| PANEDW.HC language include filePRGPANEDWP.HC language include filePRGPRIMITIVEP.HC language include filePRGPROTOCOLS.HC language include filePRGPROTOCOLSP.HC language include filePRGPUSHB.HC language include filePRG | OBJI |
| PANEDWP.HC language include filePRGPRIMITIVEP.HC language include filePRGPROTOCOLS.HC language include filePRGPROTOCOLSP.HC language include filePRGPUSHB.HC language include filePRG | AN |
| PRIMITIVEP.HC language include filePRGPROTOCOLS.HC language include filePRGPROTOCOLSP.HC language include filePRGPUSHB.HC language include filePRG | PAN |
| PROTOCOLS.HC language include filePRGPROTOCOLSP.HC language include filePRGPUSHB.HC language include filePRG | PRIN |
| PROTOCOLSP.HC language include filePRGPUSHB.HC language include filePRG | PRO |
| PUSHB.H C language include file PRG | PRO |
| | PUSI |
| PUSHBG.H C language include file PRG | PUSI |
| PUSHBGP.H C language include file PRG | PUSI |
| PUSHBP.H C language include file PRG | PUSI |
| QUARKS.H C language include file PRG | QUA |
| RCUTILSP.H C language include file PRG | RCU |
| RECTOBJ.H C language include file PRG | REC |

| Directory | File Name | Description | Class |
|-----------|--------------|-------------------------|-------|
| | RECTOBJP.H | C language include file | PRGM |
| | REGIONI.H | C language include file | PRGM |
| | REPTYPE.H | C language include file | PRGM |
| | REPTYPEI.H | C language include file | PRGM |
| | ROWCOLUMN.H | C language include file | PRGM |
| | ROWCOLUMNP.H | C language include file | PRGM |
| | SASHP.H | C language include file | PRGM |
| | SCALE.H | C language include file | PRGM |
| | SCALEP.H | C language include file | PRGM |
| | SCREEN.H | C language include file | PRGM |
| | SCREENP.H | C language include file | PRGM |
| | SCROLLBAR.H | C language include file | PRGM |
| | SCROLLBARP.H | C language include file | PRGM |
| | SCROLLEDW.H | C language include file | PRGM |
| | SCROLLEDWP.H | C language include file | PRGM |
| | SELECTIOB.H | C language include file | PRGM |
| | SELECTIOBP.H | C language include file | PRGM |
| | SELECTION.H | C language include file | PRGM |
| | SEPARATOG.H | C language include file | PRGM |
| | SEPARATOGP.H | C language include file | PRGM |
| | SEPARATOR.H | C language include file | PRGM |
| | SEPARATORP.H | C language include file | PRGM |
| | SHELL.H | C language include file | PRGM |
| | SHELLEP.H | C language include file | PRGM |
| | SHELLP.H | C language include file | PRGM |
| | STRINGDEFS.H | C language include file | PRGM |
| | STRINGSRCP.H | C language include file | PRGM |
| | TEAROFFBP.H | C language include file | PRGM |
| | TEAROFFP.H | C language include file | PRGM |
| | | | |

| Directory | File Name | Description | Class |
|-----------|--------------|-------------------------|-------|
| | TEXT.H | C language include file | PRGM |
| | TEXTDICONI.H | C language include file | PRGM |
| | TEXTF.H | C language include file | PRGM |
| | TEXTFP.H | C language include file | PRGM |
| | TEXTFSELP.H | C language include file | PRGM |
| | TEXTINP.H | C language include file | PRGM |
| | TEXTOUTP.H | C language include file | PRGM |
| | TEXTP.H | C language include file | PRGM |
| | TEXTSELP.H | C language include file | PRGM |
| | TEXTSRCP.H | C language include file | PRGM |
| | TEXTSTRSOP.H | C language include file | PRGM |
| | TOGGLEB.H | C language include file | PRGM |
| | TOGGLEBG.H | C language include file | PRGM |
| | TOGGLEBGP.H | C language include file | PRGM |
| | TOGGLEBP.H | C language include file | PRGM |
| | TRANSLATE.H | C language include file | PRGM |
| | TRANSLTNSP.H | C language include file | PRGM |
| | TRAVACTI.H | C language include file | PRGM |
| | TRAVERSAL.H | C language include file | PRGM |
| | TRAVERSALI.H | C language include file | PRGM |
| | UILDBDEF.H | C language include file | PRGM |
| | UILLEXPARS.H | C language include file | PRGM |
| | VASIMPLE.H | C language include file | PRGM |
| | VASIMPLEP.H | C language include file | PRGM |
| | VENDOR.H | C language include file | PRGM |
| | VENDORE.H | C language include file | PRGM |
| | VENDOREP.H | C language include file | PRGM |
| | VENDORP.H | C language include file | PRGM |
| | VENDORS.H | C language include file | PRGM |

Table C-2 (Cont.) DECwindows Motif Version 1.2-3 for OpenVMS Software Components

| Directory | File Name | Description | Class |
|-----------|-------------------|-------------------------|-------|
| | VENDORSEP.H | C language include file | PRGM |
| | VENDORSP.H | C language include file | PRGM |
| | VIRTKEYS.H | C language include file | PRGM |
| | VIRTKEYSP.H | C language include file | PRGM |
| | WINDOWOBJ.H | C language include file | PRGM |
| | WINDOWOBJP.H | C language include file | PRGM |
| | WORLDP.H | C language include file | PRGM |
| | X.H | C language include file | PRGM |
| | XATOM.H | C language include file | PRGM |
| | XCMS.H | C language include file | PRGM |
| | XFUNCPROTO.H | C language include file | PRGM |
| | XFUNCS.H | C language include file | PRGM |
| | XLIB.H | C language include file | PRGM |
| | XLIB_XPG4_FUNCS.H | C language include file | PRGM |
| | XLOCALE.H | C language include file | PRGM |
| | XM.H | C language include file | PRGM |
| | XMALL.H | C language include file | PRGM |
| | XMAPPL.UIL | C language include file | PRGM |
| | XMD.H | C language include file | PRGM |
| | XMI.H | C language include file | PRGM |
| | XMOSP.H | C language include file | PRGM |
| | XMP.H | C language include file | PRGM |
| | XMSTRDEFS.H | C language include file | PRGM |
| | XOS.H | C language include file | PRGM |
| | XOSDEFS.H | C language include file | PRGM |
| | XPROTO.H | C language include file | PRGM |
| | XPROTOSTR.H | C language include file | PRGM |
| | XRESOURCE.H | C language include file | PRGM |
| | XTOS.H | C language include file | PRGM |
| | | | |

Table C-2 (Cont.) DECwindows Motif Version 1.2-3 for OpenVMS Software Components

| Directory | File Name | Description | Class |
|------------|--------------------------------|-------------------------------------|-------|
| | XUTIL.H | C language include file | PRGM |
| DECW\$SYST | EM_DEFAULTS | | |
| | DDIF\$CSW.UID | DDIF UI data file | CDA |
| | DDIF\$VIEW.UID | CDA Viewer UI data file | CDA |
| | DDIF\$VIEWWGT.UID | CDA Viewer UI data file | CDA |
| | DDIF\$VIEWWGT12.UID | CDA Viewer UI data file | CDA |
| | DECW\$BOOKREADER.DAT | Bookreader resource file | RTL |
| | DECW\$BOOKREADER.UID | Bookreader UI data file | RTL |
| | DECW\$CALC.DAT | Calculator resource file | APPS |
| | DECW\$CALC.UID | Calculator UI data file | APPS |
| | DECW\$CALENDAR.DAT | Calendar resource file | APPS |
| | DECW\$CALENDAR.UID | Calendar UI data file | APPS |
| | DECW\$CARDFILER.DAT | Cardfiler resource file | APPS |
| | DECW\$CARDFILER.UID | Cardfiler UI data file | APPS |
| | DECW\$CBI.UID | CBI UI data file | APPS |
| | DECW\$CLOCK.DAT | Clock resource file | APPS |
| | DECW\$CLOCK.UID | Clock UI data file | APPS |
| | DECW\$CONSOLE.DAT | Console Window resource file | APPS |
| | DECW\$DXMPRINTWGT_ UI.UID | Print Widget UI data file | RTL |
| | DECW\$DXMPRINTWGT_ UI12.UID | Print Widget UI data file | RTL |
| | DECW\$ENDSESSION.DAT | Session Manager resource file | APPS |
| | DECW\$ENDSESSION.UID | Session Manager UI data file | APPS |
| | DECW\$LOGIN.DAT | Login resource file | APPS |
| | DECW\$LOGIN.UID | Login UI data file | APPS |
| | DECW\$MAIL.DAT | DECwindows Mail resource file | RTL |
| | DECW\$MAIL_MAIN.UID | DECwindows Mail UI data file 113 | RTL |

| Directory | File Name | Description | Class |
|-----------|------------------------|--------------------------------------|-------|
| | DECW\$MAIL_MAIN12.UID | DECwindows Mail UI data file 123 | RTL |
| | DECW\$MAIL_MISC.UID | DECwindows Mail UI data file 113 | RTL |
| | DECW\$MAIL_MISC12.UID | DECwindows Mail UI data file 123 | RTL |
| | DECW\$MAIL_READ.UID | DECwindows Mail UI data file 113 | RTL |
| | DECW\$MAIL_READ12.UID | DECwindows Mail UI data file 123 | RTL |
| | DECW\$MAIL_SEND.UID | DECwindows Mail UI data file 113 | RTL |
| | DECW\$MAIL_SEND12.UID | DECwindows Mail UI data file 123 | RTL |
| | DECW\$MESSAGEPANEL.DAT | Message Panel resource file | APPS |
| | DECW\$MESSAGEPANEL.UID | Message Panel UI data file | APPS |
| | DECW\$MWM.DAT | Motif Window Manager resource file | APPS |
| | DECW\$MWM.UID | Motif Window Manager UI data file | APPS |
| | DECW\$MWM_BW.DAT | Motif Window Manager resource file | APPS |
| | DECW\$MWM_GRAY.DAT | Motif Window Manager resource file | APPS |
| | DECW\$MWM_RC.DAT | Motif Window Manager resource file | APPS |
| | DECW\$NOTEPAD.DAT | Notepad resource file | APPS |
| | DECW\$NOTEPAD.UID | Notepad UI data file | APPS |
| | DECW\$PAINT.DAT | Paint resource file | APPS |
| | DECW\$PAINT.UID | Paint UI data file | APPS |
| | DECW\$PAUSESESSION.DAT | Session Manager resource file | APPS |
| | DECW\$PAUSESESSION.UID | Session Manager UI data file | APPS |
| | DECW\$PRINTSCREEN.UID | Print Screen UI data file | APPS |
| | | | |

| Directory | File Name | Description | Class |
|-----------|------------------------------------|-------------------------------|-------|
| | DECW\$PRINTWGT_UI.UID | Print Widget UI data file | RTL |
| | DECW\$PUZZLE.DAT | Puzzle resource file | APPS |
| | DECW\$PUZZLE.UID | Puzzle UI data file | APPS |
| | DECW\$SMB_BACKGROUND.DAT | Session Manager resource file | APPS |
| | DECW\$SMB_BACKGROUND_ BW.DAT | Session Manager resource file | APPS |
| | DECW\$SMB_BACKGROUND_ COLOR.DAT | Session Manager resource file | APPS |
| | DECW\$SMB_BACKGROUND_ GRAY.DAT | Session Manager resource file | APPS |
| | DECW\$SMB_KEYBOARD.DAT | Session Manager resource file | APPS |
| | DECW\$SMB_LANGUAGE.DAT | Session Manager resource file | APPS |
| | DECW\$SMB_POINTER.DAT | Session Manager resource file | APPS |
| | DECW\$SMB_POINTER_ BW.DAT | Session Manager resource file | APPS |
| | DECW\$SMB_POINTER_ COLOR.DAT | Session Manager resource file | APPS |
| | DECW\$SMB_POINTER_ GRAY.DAT | Session Manager resource file | APPS |
| | DECW\$SMB_SECURITY.DAT | Session Manager resource file | APPS |
| | DECW\$SMB_WINDOW.DAT | Session Manager resource file | APPS |
| | DECW\$SMB_WINDOW_ BW.DAT | Session Manager resource file | APPS |
| | DECW\$SMB_WINDOW_ COLOR.DAT | Session Manager resource file | APPS |
| | DECW\$SMB_WINDOW_ GRAY.DAT | Session Manager resource file | APPS |
| | DECW\$TERMINAL.DAT | DECterm resource file | RTL |
| | DECW\$TERMINAL.UID | DECterm user interface | RTL |
| | DECW\$UIL_DXM_MOTIF.WMD | UIL support | PRGM |
| | DECW\$UIL_DXM_MOTIF.WML | UIL support | PRGM |

| Directory | File Name | Description | Class |
|-----------|----------------------------------|--|------------|
| | DECW\$UIL_OSF_MOTIF_1_ 1.WMD | UIL support | PRGM |
| | DECW\$UIL_OSF_MOTIF_1_ 1.WML | UIL support | PRGM |
| | DECW\$WINMGR.DAT | XUI Window Manager resource file | APPS |
| | DECW\$WINMGR.UID | XUI Window Manager UI data file | APPS |
| | DECW\$WSCUST.DAT | Workstation customization resource file | APPS |
| | DECW\$WSCUST.UID | Workstation customization UI data file | APPS |
| | DECW\$WSINIT.UID | Workstation initialization UI data file | APPS |
| | DIVA\$WGT_UI.UID | Sound editor UI data file | SND- DI |
| | LWK\$DXMUI.UID | LinkWorks UI data file | RTL |
| | LWK\$DXMUI12.UID | LinkWorks UI data file | RTL |
| | MOSAIC.DAT | MOSAIC resource file | XMPL |
| | MOSAIC.DAT_COLOR | MOSAIC resource file | XMPL |
| | MOSAIC.DAT_MONO | MOSAIC resource file | XMPL |
| | SOUND\$EDITOR_UI.UID | Sound editor UI data file | SND |
| | VUE\$MASTER.DAT | FileView UI data file | APPS |
| | VUE\$MASTER.UID | FileView UI data file | APPS |
| | VUE\$SYSTEM_PROFILE. VUE\$DAT | FileView profile file | APPS |
| | XNL_CS_CZ.UID | Language switching UI data file | RTL |
| | XNL_DA_DK.UID | Language switching UI data file | RTL |
| | XNL_DE_AT.UID | Language switching UI data file | RTL |

Table C-2 (Cont.) DECwindows Motif Version 1.2-3 for OpenVMS Software Components

| Directory | File Name | Description | Class |
|-----------|-------------------|------------------------------------|-------|
| | XNL_DE_CH.UID | Language switching UI data file | RTL |
| | XNL_DE_DE.UID | Language switching UI data file | RTL |
| | XNL_EN_AU.UID | Language switching UI data file | RTL |
| | XNL_EN_GB.UID | Language switching UI data file | RTL |
| | XNL_EN_NZ.UID | Language switching UI data file | RTL |
| | XNL_EN_PG.UID | Language switching UI data file | RTL |
| | XNL_EN_US.UID | Language switching UI data file | RTL |
| | XNL_ES_ES.UID | Language switching UI data file | RTL |
| | XNL_FI_FI.UID | Language switching UI data file | RTL |
| | XNL_FJ_FJ.UID | Language switching UI data file | RTL |
| | XNL_FR_BE.UID | Language switching UI data file | RTL |
| | XNL_FR_CA.UID | Language switching UI data file | RTL |
| | XNL_FR_CH.UID | Language switching UI data file | RTL |
| | XNL_FR_FR.UID | Language switching UI data file | RTL |
| | XNL_HU_HU.UID | Language switching UI data file | RTL |
| | XNL_ISO8859-1.UID | Language switching UI data file | RTL |
| | XNL_ISO8859-2.UID | Language switching UI data file | RTL |

Table C-2 (Cont.) DECwindows Motif Version 1.2-3 for OpenVMS Software Components

| | , | • | • |
|-----------|-------------------|---------------------------------|-------|
| Directory | File Name | Description | Class |
| | XNL_ISO8859-5.UID | Language switching UI data file | RTL |
| | XNL_ISO8859-8.UID | Language switching UI data file | RTL |
| | XNL_IT_CH.UID | Language switching UI data file | RTL |
| | XNL_IT_IT.UID | Language switching UI data file | RTL |
| | XNL_IW_IL.UID | Language switching UI data file | RTL |
| | XNL_NL_BE.UID | Language switching UI data file | RTL |
| | XNL_NL_NL.UID | Language switching UI data file | RTL |
| | XNL_NO_NO.UID | Language switching UI data file | RTL |
| | XNL_PL_PL.UID | Language switching UI data file | RTL |
| | XNL_PT_PT.UID | Language switching UI data file | RTL |
| | XNL_RU_RU.UID | Language switching UI data file | RTL |
| | XNL_SK_SK.UID | Language switching UI data file | RTL |
| | XNL_SV_SE.UID | Language switching UI data file | RTL |
| | | | |

Table C-2 (Cont.) DECwindows Motif Version 1.2-3 for OpenVMS Software Components

DECW\$UTILS

| ATOBM.C | MIT utility source | XMPL |
|------------|--------------------|------|
| ATOBM.EXE | MIT utility image | XMPL |
| BITMAP.C | MIT utility source | XMPL |
| BITMAP.EXE | MIT utility image | XMPL |
| BMTOA.C | MIT utility source | XMPL |

| Directory | File Name | Description | Class |
|-----------|------------------------|-------------------------------|-------|
| | BMTOA.EXE | MIT utility image | XMPL |
| | COPYRIGHT.H | MIT utility source | XMPL |
| | DECW\$DEFINE_UTILS.COM | MIT utility source | XMPL |
| | DECWINDOWS.GIF | MOSAIC Home Page example file | XMPL |
| | DIALOG.C | MIT utility source | XMPL |
| | DIGITAL_LOGO.GIF | MOSAIC Home Page example file | XMPL |
| | DSIMPLE.C | MIT utility source | XMPL |
| | DSIMPLE.H | MIT utility source | XMPL |
| | EXEC.C | MIT utility source | XMPL |
| | HANDLE.C | MIT utility source | XMPL |
| | HOME.HTML | MOSAIC Home Page example file | XMPL |
| | HOTSPOT.HTML | MOSAIC Home Page example file | XMPL |
| | LNCMD.H | MIT utility source | XMPL |
| | MOSAIC.EXE | MOSAIC image file | XMPL |
| | PF.C | MIT utility source | XMPL |
| | PMP.H | MIT utility source | XMPL |
| | STRIPNAME.C | MIT utility source | XMPL |
| | UNLINK.C | MIT utility source | XMPL |
| | WQ.H | MIT utility source | XMPL |
| | X2JET.C | MIT utility source | XMPL |
| | X2PMP.C | MIT utility source | XMPL |
| | XDPYINFO.C | MIT utility source | XMPL |
| | XDPYINFO.EXE | MIT utility image | XMPL |
| | XEV.C | MIT utility source | XMPL |
| | XEV.EXE | MIT utility image | XMPL |
| | XLSATOMS.C | MIT utility source | XMPL |
| | | | |

| Directory | File Name | Description | Class |
|-----------|-------------------|---------------------|-------|
| | XLSATOMS.EXE | MIT utility image | XMPL |
| | XLSFONTS.C | MIT utility source | XMPL |
| | XLSFONTS.EXE | MIT utility image | XMPL |
| | XLSWINS.C | MIT utility source | XMPL |
| | XLSWINS.EXE | MIT utility image | XMPL |
| | XMAG.C | MIT utility source | XMPL |
| | XMAG.EXE | MIT utility image | XMPL |
| | XMBIND.EXE | MIT utility image | XMPL |
| | XMODMAP.C | MIT utility source | XMPL |
| | XMODMAP.EXE | MIT utility image | XMPL |
| | XMODMAP.H | MIT utility source | XMPL |
| | XMOSAIC-SETUP.COM | MOSAIC utility file | XMPL |
| | XPR.C | MIT utility source | XMPL |
| | XPR.EXE | MIT utility image | XMPL |
| | XPR.H | MIT utility source | XMPL |
| | XPROP.C | MIT utility source | XMPL |
| | XPROP.EXE | MIT utility image | XMPL |
| | XRDB.C | MIT utility source | XMPL |
| | XRDB.EXE | MIT utility image | XMPL |
| | XREFRESH.C | MIT utility source | XMPL |
| | XREFRESH.EXE | MIT utility image | XMPL |
| | XSET.C | MIT utility source | XMPL |
| | XSET.EXE | MIT utility image | XMPL |
| | XSETROOT.C | MIT utility source | XMPL |
| | XSETROOT.EXE | MIT utility image | XMPL |
| | XWD.C | MIT utility source | XMPL |
| | XWD.EXE | MIT utility image | XMPL |
| | XWDFILE.H | MIT utility source | XMPI |
| | XWININFO.C | MIT utility source | XMPL |
| | | | |

| Directory | File Name | Description | Class |
|-----------|---------------------------------------|---------------------------|-------|
| | XWININFO.EXE | MIT utility image | XMPL |
| | XWUD.C | MIT utility source | XMPL |
| | XWUD.EXE | MIT utility image | XMPL |
| SYSSHELP | | | |
| | DDIF\$VIEW.DECW\$BOOK | CDA Viewer help | CDA |
| | DECW\$BOOKREADER. DECW\$BOOK | Bookreader help | RTL |
| | DECW\$CALC.DECW\$BOOK | Calculator help | APPS |
| | DECW\$CALENDAR. DECW\$BOOK | Calendar help | APPS |
| | DECW\$CARDFILER. DECW\$BOOK | Cardfiler help | APPS |
| | DECW\$CLOCK.DECW\$BOOK | Clock help | APPS |
| | DECW\$DECSOUND. DECW\$BOOK | Sound editor help | SND |
| | DECW\$DXMCOLOR_HELP. DECW\$BOOK | Color mixer help | RTL |
| | DECW\$DXMHELP_HELP.HLB | HELP help | RTL |
| | DECW\$DXMPRINTWGT_ HELP.DECW\$BOOK | Print Widget help | RTL |
| | DECW\$HELPHELP.HLB | HELP help | RTL |
| | DECW\$MAIL.DECW\$BOOK | DECwindows Mail help | RTL |
| | DECW\$MESSAGEPANEL. DECW\$BOOK | Message Panel help | APPS |
| | DECW\$MOTIFU3012.RELEASE_ NOTES | Release Notes V1.2-3 | INST |
| | DECW\$MOTIF_OSF_BUG_ LIST_V12.TXT | Help text | INST |
| | DECW\$MULTIBUFFER.TXT | Help text | INST |
| | DECW\$MWM.DECW\$BOOK | Motif Window Manager help | APPS |
| | DECW\$NOTEPAD.DECW\$BOOK | Notepad help | APPS |

(continued on next page)

| Directory | File Name | Description | Class |
|--------------|----------------------------------|--|-------|
| | DECW\$PAINT.DECW\$BOOK | Paint help | APPS |
| | DECW\$PRINTSCREEN. DECW\$BOOK | Print Screen help | APPS |
| | DECW\$PRINTWGT.HLB | Print Widget help | RTL |
| | DECW\$PUZZLE.DECW\$BOOK | Puzzle help | APPS |
| | DECW\$SHAPE.TXT | Help text | INST |
| | DECW\$TERMINAL. DECW\$BOOK | DECterm help | RTL |
| | DECW\$VUE.DECW\$BOOK | FileView help | APPS |
| | DECW\$XINPUT.TXT | Help text | INST |
| SYS\$LIBRARY | | | |
| | CDA\$ACCESS.EXE | CDA Toolkit and CDA Converter Toolkit run-time library shareable image | CDA |
| | CDA\$ACCESS.IIF‡ | Translated-image support | TIS |
| | CDA\$ACCESS_TV_SUPPORT .EXE‡ | Translated-image support | TIS |
| | CDA\$DTIF_TO_DDIF.EXE | CDA DTIF-to-DDIF converter image | CDA |
| | CDA\$WRITE_ANALYSIS.EXE | CDA image | CDA |
| | CDADEF.FOR | Fortran programming support | PGFO |
| | CDADEF.H | CDA language bindings | PRGM |
| | CDADEF.PAS | Pascal programming support | PGPA |
| | CDAMSG.FOR | Fortran programming support | PGFO |
| | CDAMSG.H | CDA message symbols | PRGM |
| | CDAMSG.PAS | Pascal programming support | PGPA |
| | CDAPTP.H | CDA C language include file | PRGM |
| | CDATRANS.H | CDA C language include file | PRGM |
| | CDATYP.H | CDA C language include file | PRGM |
| | | | |

‡Alpha specific

| Directory | File Name | Description | Class |
|-----------|-----------------------------------|----------------------------------|-------|
| | DDIF\$CC_VIEWSHR.EXE | DDIF Viewer shareable image | CDA |
| | DDIF\$DECW_VIEWSHR12.EXE | DDIF Viewer shareable image | CDA |
| | DDIF\$READ_TEXT.EXE | Text frontend shareable image | CDA |
| | DDIF\$VIEWSHR.EXE | DDIF Viewer shareable image | CDA |
| | DDIF\$VIEWSHR.IIF‡ | Translated-image support | TIS |
| | DDIF\$VIEWSHR12.EXE | DDIF Viewer shareable image | CDA |
| | DDIF\$VIEWSHR_TV_ SUPPORT.EXE‡ | Translated-image support | TIS |
| | DDIF\$WRITE_PS.EXE | CDA text image | CDA |
| | DDIF\$WRITE_TEXT.EXE | CDA text backend shareable image | CDA |
| | DDIFDEF.FOR | Fortran programming support | PGFO |
| | DDIFDEF.H | DDIF language bindings | PRGM |
| | DDIFDEF.PAS | Pascal programming support | PGPA |
| | DECW\$AILSHR.EXE | Shareable image | RTL |
| | DECW\$AILSHR.IIF‡ | Translated-image support | TIS |
| | DECW\$AILSHRR5.EXE | Shareable image | RTL |
| | DECW\$AILSHR_TV_SUPPORT. EXE‡ | Translated-image support | TIS |
| | DECW\$BKRSHR.EXE | Shareable image | RTL |
| | DECW\$BKRSHR.IIF‡ | Translated-image support | TIS |
| | DECW\$BKRSHR12.EXE | Shareable image | RTL |
| | DECW\$BKRSHR_TV_ SUPPORT.EXE‡ | Translated-image support | TIS |
| | DECW\$BOOKREADER_ PROLOG.PS | PostScript initialization | APPS |
| | DECW\$CALENDAR_PROLOG.PS | PostScript initialization | APPS |
| | DECW\$CURSOR.H | Cursor include file | PRGM |
| | DECW\$D2DXLIBSHR.EXE | Shareable image | RTL |
| | DECW\$D2DXLIBSHR.IIF‡ | Translated-image support | TIS |

Table C-2 (Cont.) DECwindows Motif Version 1.2-3 for OpenVMS Software Components

| Directory | File Name | Description | Class |
|-----------|--|---|-------|
| | DECW\$D2DXLIBSHR_TV_ SUPPORT .EXE‡ | Translated-image support | TIS |
| | DECW\$DWTLIBSHR.EXE | XUI Toolkit thin-layer shareable image | RTL |
| | DECW\$DWTLIBSHR.IIF‡ | Translated-image support | TIS |
| | DECW\$DWTLIBSHR_TV_ SUPPORT.EXE‡ | Translated-image support | TIS |
| | DECW\$DWTMSG.FOR | Fortran programming support | PGFO |
| | DECW\$DWTMSG.PAS | Pascal programming support | PGPA |
| | DECW\$DWTSHR.EXE | XUI Toolkit shareable image | RTL |
| | DECW\$DWTSHR_TV_ SUPPORT.EXE‡ | Translated-image support | TIS |
| | DECW\$DXMLIBSHR.EXE | Digital Extended Motif Toolkit shareable image | RTL |
| | DECW\$DXMLIBSHR.IIF‡ | Translated-image support | TIS |
| | DECW\$DXMLIBSHR12.EXE | Digital Extended Motif Toolkit shareable image | RTL |
| | DECW\$DXMLIBSHR_TV_ SUPPORT.EXE‡ | Translated-image support | TIS |
| | DECW\$LOGINOUT.EXE | DECwindows extension to VMS LOGINOUT image | APPS |
| | DECW\$MAILSHR.EXE | DECwindows Mail shareable image for V1.1.3 | RTL |
| | DECW\$MAILSHR.IIF‡ | Translated-image support | TIS |
| | DECW\$MAILSHR12.EXE | DECwindows Mail shareable image for V1.2.3 | RTL |
| | DECW\$MAILSHR12.IIF‡ | Translated-image support | TIS |
| | DECW\$MAILSHR_TV_ SUPPORT.EXE‡ | Translated-image support | TIS |
| | DECW\$MOTIF.FOR | Fortran programming support | PGFO |
| | DECW\$MOTIF.PAS | Pascal programming support | PGPA |

‡Alpha specific

| | | | nponom |
|-----------|---------------------------------------|--|--------|
| Directory | File Name | Description | Class |
| | DECW\$MRMLIBSHR12.EXE | Digital Extended Motif Toolkit shareable image | RTL |
| | DECW\$PEN_BUILD.COM | Pascal programming support | PGPA |
| | DECW\$PRINTWGTSHR.EXE | Print Widget shareable image | RTL |
| | DECW\$PRINTWGTSHR.IIF‡ | Translated-image support | TIS |
| | DECW\$PRINTWGTSHR_TV_ SUPPORT.EXE‡ | Translated-image support | TIS |
| | DECW\$SESSIONSHRP.EXE | Privileged session support image | DVMS |
| | DECW\$TERMINALSHR.EXE | DECterm shareable image | RTL |
| | DECW\$TERMINALSHR.IIF‡ | Translated-image support | TIS |
| | DECW\$TERMINALSHR12.EXE | DECterm shareable image | RTL |
| | DECW\$TERMINALSHR_TV_ SUPPORT.EXE‡ | Translated-image support | TIS |
| | DECW\$WML_TOKENS.DAT | Widget metalanguage tokens data | PRGM |
| | DECW\$XEXTLIBSHR.EXE | Xlib shareable image | RTL |
| | DECW\$XEXTLIBSHR.IIF‡ | Translated-image support | TIS |
| | DECW\$XEXTLIBSHR_TV_ SUPPORT.EXE‡ | Translated-image support | TIS |
| | DECW\$XKEYSYMDB.DAT | Key symbols data | RTL |
| | DECW\$XLIBDEF.FOR | Fortran programming support | PGFO |
| | DECW\$XLIBDEF.PAS | Pascal programming support | PGPA |
| | DECW\$XLIBMSG.FOR | Fortran programming support | PGFO |
| | DECW\$XLIBMSG.H | XLib message symbols | PRGM |
| | DECW\$XLIBMSG.PAS | Pascal programming support | PGPA |
| | DECW\$XLIBSHR.EXE | Xlib shareable image | RTL |
| | DECW\$XLIBSHR.IIF‡ | Translated-image support | TIS |
| | DECW\$XLIBSHR_TV_ SUPPORT.EXE‡ | Translated-image support | TIS |
| | DECW\$XMLIBSHR.EXE | Motif Toolkit shareable image | RTL |

‡Alpha specific

| • | , | • | |
|-----------|---------------------------------------|---|-------|
| Directory | File Name | Description | Class |
| | DECW\$XMLIBSHR.IIF‡ | Translated-image support | TIS |
| | DECW\$XMLIBSHR12.EXE | Motif Toolkit shareable image | RTL |
| | DECW\$XMLIBSHR_TV_ SUPPORT.EXE‡ | Translated-image support | TIS |
| | DECW\$XMULIBSHR.EXE | MIT miscellaneous utilities library | RTL |
| | DECW\$XMULIBSHR.IIF‡ | Translated-image support | TIS |
| | DECW\$XMULIBSHRR5.EXE | MIT miscellaneous utilities library | RTL |
| | DECW\$XMULIBSHR_TV_ SUPPORT.EXE‡ | Translated-image support | TIS |
| | DECW\$XTLIBSHRR5.EXE | Xtoolkit (intrinsics) shareable image | RTL |
| | DECW\$XTRAPLIBSHR.EXE | Xtrap extension shareable image | RTL |
| | DECW\$XTRAPLIBSHR.IIF‡ | Translated-image support | TIS |
| | DECW\$XTRAPLIBSHRR5.EXE | Xtrap extension shareable image | RTL |
| | DECW\$XTRAPLIBSHR_TV_ SUPPORT.EXE‡ | Translated-image support | TIS |
| | DECW\$XTSHR.EXE | Xtoolkit (intrinsics) shareable image | RTL |
| | DECW\$XTSHR_TV_SUPPORT. EXE‡ | Translated-image support | TIS |
| | DECWINDOWS.OLB | DECwindows Object Library | DVMS |
| | DGIT\$LIBSHR.EXE | Digital Extended Toolkit shareable image | RTL |
| | DGIT\$LIBSHR.IIF‡ | Translated-image support | TIS |
| | DGIT\$LIBSHR12.EXE | Digital Extended Toolkit shareable image | RTL |
| | DGIT\$LIBSHR_TV_SUPPORT. EXE‡ | Translated-image support | TIS |
| | | | |

Table C-2 (Cont.) DECwindows Motif Version 1.2-3 for OpenVMS Software Components

| Directory | File Name | Description | Class |
|-----------|-------------------------|---|------------|
| | DIVA\$LIB_SHR.EXE | Sound-editor shareable image | SND- DI |
| | DIVA\$WGT_SHR.EXE | Sound-editor shareable image | SND- DI |
| | DTIFDEF.FOR | Fortran programming support | PGFO |
| | DTIFDEF.H | DTIF programmer files | PRGM |
| | DTIFDEF.PAS | Pascal programming support | PGPA |
| | DVR\$DECW_DEF.H | CDA Viewer C language support | PRGM |
| | DVR\$DECW_PTP.H | CDA Viewer C language support | PRGM |
| | DVR\$MSG.H | CDA Viewer C language support | PRGM |
| | DVRCDEF.H | CDA Viewer C language support | PRGM |
| | DVRCINT.H | CDA Viewer C language support | PRGM |
| | DVRCPTP.H | CDA Viewer C language support | PRGM |
| | DVRMSG.H | CDA Viewer C language support | PRGM |
| | DVRWDEF.H | CDA Viewer C language support | PRGM |
| | IMG\$SHRLIB.EXE | DECimage Application Services (DAS) shareable image | RTL |
| | IMG\$SHRLIB.IIF‡ | Translated-image support | TIS |
| | IMG\$SHRLIB12.EXE | DECimage Application Services (DAS) shareable image | RTL |
| | IMG\$SHRLIB_NOX.EXE | DECimage Application Services (DAS) shareable image | RTL |
| | IMG\$SHRLIB_TV_SUPPORT. | EXE‡Translated-image support | TIS |
| | LWK\$DXMSHR.EXE | LinkWorks shareable image | RTL |
| | LWK\$DXMSHR.IIF‡ | Translated-image support | TIS |

Table C-2 (Cont.) DECwindows Motif Version 1.2-3 for OpenVMS Software Components

| | , | • | • |
|-----------|--|---|-------|
| Directory | File Name | Description | Class |
| | LWK\$DXMSHR12.EXE | LinkWorks shareable image | RTL |
| | LWK\$DXMSHR_TV_SUPPORT. EXE‡ | Translated-image support | TIS |
| | VUE\$MASTERSHR.EXE | FileView shareable image | APPS |
| | XDPS\$DPSBINDINGSSHR.EXE | Display PostScript Client Library VAX binding shareable image | RTL |
| | XDPS\$DPSBINDINGSSHR.IIF‡ | Translated-image support | TIS |
| | XDPS\$DPSBINDINGSSHR_TV_ SUPPORT.EXE‡ | Translated-image support | TIS |
| | XDPS\$DPSCLIENTSHR.EXE | Display PostScript Client Library C binding shareable image | RTL |
| | XDPS\$DPSCLIENTSHR.IIF‡ | Translated-image support | TIS |
| | XDPS\$DPSCLIENTSHR_TV_ SUPPORT.EXE‡ | Translated-image support | TIS |
| | XDPS\$DPSLIBSHR.EXE | Display PostScript Xlib extension shareable image | RTL |
| | XDPS\$DPSLIBSHR.IIF‡ | Translated-image support | TIS |
| | XDPS\$DPSLIBSHR_TV_ SUPPORT.EXE‡ | Translated-image support | TIS |
| | XDPS\$DPSOPS.FOR | Fortran programming support | PGFO |
| | XDPS\$DPSXCLIENT.FOR | Fortran programming support | PGFO |
| | XDPS\$PSOPS.FOR | Fortran programming support | PGFO |
| | XDPS\$XDPS.FOR | Fortran programming support | PGFO |
| | XDPS\$XDPSLIB.FOR | Fortran programming support | PGFO |
| | XIE\$SHRLIB.EXE | X Imaging Extension library shareable image | RTL |
| | XIE\$SHRLIB.IIF‡ | Translated-image support | TIS |
| | XIE\$SHRLIB_TV_SUPPORT.EXE | ‡ Translated-image support | TIS |
| | XNL\$DEF.FOR | Fortran programming support | PGFO |
| | XNL\$DEF.PAS | Pascal programming support | PGPA |

Table C-2 (Cont.) DECwindows Motif Version 1.2-3 for OpenVMS Software Components

| PGFO PGPA RTL TIS RTL |
|-----------------------------------|
| PGPA RTL TIS RTL |
| RTL TIS RTL |
| TIS RTL |
| RTL |
| |
| TIS |
| |
| INST |
| APPS |
| INST |
| APPS |
| APPS |
| APPS |
| INST |
| INST |
| APPS |
| INST |
| APPS |
| |
| CDA |
| |

Table C-2 (Cont.) DECwindows Motif Version 1.2–3 for OpenVMS Software Components Directory File Name Description Class

‡Alpha specific

| Table C-2 (Cont.) | DECWINDOWS MOUT VERSION 1. | 2-3 for Openvill's Software Col | nponen |
|-------------------|----------------------------|-------------------------------------|------------|
| Directory | File Name | Description | Class |
| | DDIF\$VIEWMSG.EXE | CDA message image | CDA |
| | DECW\$DWTMSG.EXE | XUI and Motif Toolkit message image | RTL |
| | DECW\$LOGINMSG.EXE | DECwindows login message image | RTL |
| | DECW\$TERMINALMSG.EXE | DECterm message image | RTL |
| | DECW\$TRANSPORTMSG.EXE | Transport message file | DVMS |
| | DECW\$XERRORDB.DAT | Xlib message data | RTL |
| | DECW\$XLIBMSG.EXE | Xlib message image | RTL |
| | DIVA\$LIB_MSG.EXE | Sound-editor message image | SND- DI |
| SYS\$SYSTEM | | | |
| | CDA\$CONVERT.EXE | DDIF converter image | CDA |
| | CDA\$PACK.EXE | CDA image | CDA |
| | CDA\$UNPACK.EXE | CDA image | CDA |
| | DDIF\$VIEW.EXE | DDIF Viewer image | CDA |
| | DECSOUND.EXE | Sound editor image | SND |
| | DECW\$BOOKREADER.EXE | Bookreader image | RTL |
| | DECW\$CALC.EXE | Calculator image | APPS |
| | DECW\$CALENDAR.EXE | Calendar image | APPS |
| | DECW\$CARDFILER.EXE | Cardfiler image | APPS |
| | DECW\$CBI.EXE | CBI image | APPS |
| | DECW\$CLOCK.EXE | Clock image | APPS |
| | DECW\$ENDSESSION.EXE | Session Manager image | APPS |
| | DECW\$MAIL.EXE | DECwindows Mail image | APPS |
| | DECW\$MESSAGEPANEL.EXE | Message Panel image | APPS |
| | DECW\$MWM.EXE | Motif Window Manager image | APPS |
| | DECW\$NOTEPAD.EXE | Notepad image | APPS |
| | DECW\$PAINT.EXE | Paint image | APPS |
| | | | |

| Directory | File Name | Description | Class |
|------------------|---------------------------------|--|-------|
| | DECW\$PAUSESESSION.EXE | Session Manager image | APPS |
| | DECW\$PRINTSCREEN.EXE | Print Screen image | APPS |
| | DECW\$PUZZLE.EXE | Puzzle image | APPS |
| | DECW\$SESSION.EXE | Session Manager image | APPS |
| | DECW\$STARTLOGIN.EXE | Image to start DECwindows Start Login box | APPS |
| | DECW\$TERMINAL.EXE | DECterm terminal emulator controller image | APPS |
| | DECW\$TERMINAL_CREATE.EXE | E DECterm terminal emulator creation image | APPS |
| | DECW\$UILMOTIF.EXE | Motif UIL compiler image | PRGM |
| | DECW\$WAITFORSM.EXE | Session Manager support image | APPS |
| | DECW\$WINMGR.EXE | XUI Window Manager image | APPS |
| | DECW\$WML.EXE | Widget metalanguage image | PRGM |
| | DECW\$WSCUST.EXE | Session Manager customization image | APPS |
| | DECW\$WSINIT.EXE | Session Manager initialization image | APPS |
| | NEWPARAMS.DAT | AUTOGEN support | INST |
| | VUE\$MASTER.EXE | FileView image | APPS |
| | XDPS\$PSWRAP.EXE | pswrap utility image | PRGM |
| SYS\$TEST | | | |
| | DECW\$IVP.COM | Installation Verification Procedure | INST |
| SYS\$UPDATE | | | |
| | DECW\$COMPARE_VERSIONS. COM | DECwindows layered product support | INST |
| | DECW\$GET_IMAGE_ VERSION.COM | DECwindows layered product support | INST |
| | | | |
| Directory | File Name | Description | Class |
|--------------|------------------------------------|------------------------------------|-------|
| | | Required installation file | INST |
| | DECWSMOTIE KITBLD.DAT | Required installation file | INST |
| | DECWSMOTIE TAILOD EVE | Required installation file | INST |
| | DECUSMOTIF_TAILOR.EAE | | INST |
| | CLEANUP.COM | Required installation file | INST |
| | DECW\$VERSIONS.COM | DECwindows layered product support | INST |
| VUE\$LIBRARY | | | |
| | MOSAIC\$VUE.COM | FileView verb command file | XMPL |
| | SOUND\$PROFILE.VUE\$DAT | Sound editor | SND |
| | SOUND\$VUE_STARTUP.COM | Sound editor | SND |
| | VUE\$BOOKREADER.COM | FileView verb command file | APPS |
| | VUE\$CALCULATOR.COM | FileView verb command file | APPS |
| | VUE\$CALENDAR.COM | FileView verb command file | APPS |
| | VUE\$CARDFILER.COM | FileView verb command file | APPS |
| | VUE\$CBI.COM | FileView verb command file | APPS |
| | VUE\$CLOCK.COM | FileView verb command file | APPS |
| | VUE\$COMPARE.COM | FileView verb command file | APPS |
| | VUE\$COMPILE.COM | FileView verb command file | APPS |
| | VUE\$COPY.COM | FileView verb command file | APPS |
| | VUE\$CREATE_DIRECTORY.COM | FileView verb command file | APPS |
| | VUE\$CREATE_PUBLIC_ PROFILE.COM | FileView verb command file | APPS |
| | VUE\$DCL_COMMAND.COM | FileView verb command file | APPS |
| | VUE\$DDIF_VIEWER.COM | FileView verb command file | APPS |
| | VUE\$DECTERM.COM | FileView verb command file | APPS |
| | VUE\$DELETE.COM | FileView verb command file | APPS |
| | VUE\$EDIT.COM | FileView verb command file | APPS |
| | VUE\$HELP.COM | FileView verb command file | APPS |

Table C-2 (Cont.) DECwindows Motif Version 1.2-3 for OpenVMS Software Components

(continued on next page)

| Directory | File Name | Description | Class |
|---------------|-------------------------------|--|-------|
| | VUE\$ITERATE.COM | FileView verb command file | APPS |
| | VUE\$LINK.COM | FileView verb command file | APPS |
| | VUE\$LINKWORKSMANAGER. COM | FileView verb command file | APPS |
| | VUE\$LINKWORKSSETUP.COM | FileView verb command file | APPS |
| | VUE\$MAIL.COM | FileView verb command file | APPS |
| | VUE\$MWM.COM | FileView verb command file | APPS |
| | VUE\$NOTEPAD.COM | FileView verb command file | APPS |
| | VUE\$PAINT.COM | FileView verb command file | APPS |
| | VUE\$PRINT.COM | FileView verb command file | APPS |
| | VUE\$PRINTSCREEN.COM | FileView verb command file | APPS |
| | VUE\$PURGE.COM | FileView verb command file | APPS |
| | VUE\$PUZZLE.COM | FileView verb command file | APPS |
| | VUE\$RENAME.COM | FileView verb command file | APPS |
| | VUE\$RUN.COM | FileView verb command file | APPS |
| | VUE\$SEARCH.COM | FileView verb command file | APPS |
| | VUE\$SET_PROTECTION.COM | FileView verb command file | APPS |
| | VUE\$SUBPROCESS_INIT.COM | FileView verb command file | APPS |
| | VUE\$UTILS.COM | FileView verb command file | APPS |
| | VUE\$XUI_WM.COM | FileView verb command file | APPS |
| XDPS\$INCLUDE | | | |
| | DPSCLIENT.H | Display PostScript C language include file | PRGM |
| | DPSCUSTOMOPS.H | Display PostScript C language include file | PRGM |
| | DPSEXCEPT.H | Display PostScript C language include file | PRGM |
| | DPSFRIENDS.H | Display PostScript C language include file | PRGM |
| | | | |

Table C-2 (Cont.) DECwindows Motif Version 1.2-3 for OpenVMS Software Components

(continued on next page)

| Directory | File Name | Description | Class |
|-----------|---------------|---|-------|
| | DPSOPS.H | Display PostScript C language include file | PRGM |
| | DPSXCLIENT.H | Display PostScript C language include file | PRGM |
| | PSCUSTOMOPS.H | Display PostScript C language include file | PRGM |
| | PSOPS.H | Display PostScript C language include file | PRGM |
| | XDPS.H | Display PostScript C language include file | PRGM |
| | XDPSLIB.H | Display PostScript C language include file | PRGM |

Table C-2 (Cont.) DECwindows Motif Version 1.2-3 for OpenVMS Software Components

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