# DECram for OpenVMS Installation Guide

**January 1999**

This guide describes the installation procedure for DECram for OpenVMS.

| | |
|---|---|
| **Revision/Update Information** | This guide supersedes the *DECram for OpenVMS Installation Guide* Version 2.2. |
| **Operating System and Version:** | OpenVMS VAX Version 6.2 or higher<br>OpenVMS Alpha Version 6.2 or higher |
| **Software Version:** | DECram for OpenVMS Version 2.3 |

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**Houston, Texas**

**January 1999**

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# Preface

This guide describes the installation procedure for the DECram for OpenVMS Device Driver (MDDRIVER).

## Intended Audience

This guide is intended for system managers who should be familiar with managing the OpenVMS VAX and the OpenVMS Alpha operating systems.

## Document Structure

This guide consists of three chapters and one appendix, as follows:

- Chapter 1 describes how to prepare for installation.
- Chapter 2 describes the steps to use when installing DECram for OpenVMS.
- Chapter 3 contains postinstallation tasks.
- Appendix A contains supplementary information on error recovery, a list of installed files, and a sample installation.

## Related Documents

See the following documents for information on installation and upgrading OpenVMS VAX or OpenVMS Alpha systems:

- *OpenVMS VAX Upgrade and Installation Manual*
- *OpenVMS Alpha Upgrade and Installation Manual*

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

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

## Reader's Comments

Compaq welcomes your comments on this manual.

Print or edit the online form SYS$HELP:OPENVMSDOC_COMMENTS.TXT and send us your comments by:

| | |
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## How To Order Additional Documentation

Use the following World Wide Web address to order additional documentation:

`http://www.openvms.digital.com:81/`

If you need help deciding which documentation best meets your needs, call 800-DIGITAL (800-344-4825).

## Conventions

The following conventions are used in this manual:

| | |
|---|---|
| Ctrl/*x* | A sequence such as Ctrl/*x* indicates that you must hold down the key labeled Ctrl while you press another key or a pointing device button. |
| PF1 *x* | A sequence such as PF1 *x* indicates that you must first press and release the key labeled PF1 and then press and release another key or a pointing device button. |
| Return | In examples, a key name enclosed in a box indicates that you press a key on the keyboard. (In text, a key name is not enclosed in a box.)<br>In the HTML version of this document, this convention appears as brackets, rather than a box. |
| . . . | A horizontal ellipsis in examples indicates one of the following possibilities:<br>• Additional optional arguments in a statement have been omitted.<br>• The preceding item or items can be repeated one or more times.<br>• Additional parameters, values, or other information can be entered. |
| .<br>.<br>. | A vertical ellipsis indicates the omission of items from a code example or command format; the items are omitted because they are not important to the topic being discussed. |
| ( ) | In command format descriptions, parentheses indicate that you must enclose the options in parentheses if you choose more than one. |
| [ ] | In command format descriptions, brackets indicate optional elements. You can choose one, none, or all of the options. (Brackets are not optional, however, in the syntax of a directory name in an OpenVMS file specification or in the syntax of a substring specification in an assignment statement.) |
| [\|] | In command format descriptions, vertical bars separating items inside brackets indicate that you choose one, none, or more than one of the options. |
| { } | In command format descriptions, braces indicate required elements; you must choose one of the options listed. |
| **bold text** | This text style represents the introduction of a new term or the name of an argument, an attribute, or a reason. |

| | |
|---|---|
| *italic text* | Italic text indicates important information, complete titles of manuals, or variables. Variables include information that varies in system output (Internal error *number*), in command lines (/PRODUCER=*name*), and in command parameters in text (where *dd* represents the predefined code for the device type). |
| UPPERCASE TEXT | Uppercase text indicates a command, the name of a routine, the name of a file, or the abbreviation for a system privilege. |
| `Monospace text` | Monospace type indicates code examples and interactive screen displays.<br><br>In the C programming language, monospace type in text identifies the following elements: keywords, the names of independently compiled external functions and files, syntax summaries, and references to variables or identifiers introduced in an example. |
| - | A hyphen at the end of a command format description, command line, or code line indicates that the command or statement continues on the following line. |
| numbers | All numbers in text are assumed to be decimal unless otherwise noted. Nondecimal radixes—binary, octal, or hexadecimal—are explicitly indicated. |

# 1

# Preparing to Install DECram for OpenVMS

This guide describes how to install DECram for OpenVMS. You can install DECram for OpenVMS on OpenVMS Alpha Version 6.1 and subsequent versions, and on OpenVMS VAX Version 6.1 and subsequent versions.

Your bill of materials (BOM) and indented bills report (BIL) specify the contents of your kit. Be sure to verify the contents of your kit with this information. If your kit is damaged or if parts of it are missing, contact your Compaq representative.

DECram for OpenVMS provides online release notes. Compaq recommends that you read the release notes before proceeding with the installation. To access the online release notes, see Chapter 2.

## License Registration

You must register and load your license for DECram for OpenVMS *before* you start the installation. This will allow you to run the Installation Verification Procedure (IVP) and use the software after the installation completes.

Log in to the system manager's account, SYSTEM, to register a license. You then have a choice of two ways to perform the registration:

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

**Note**

If you plan to use DECram for OpenVMS on more than one node in an OpenVMS Cluster system, you will need to load a license, register it, and install DECram for OpenVMS on the other nodes as well.

For complete information on using the License Management Facility (LMF), see the *OpenVMS License Management Utility Manual*.

## Installation Procedure Requirements

This section and those that follow discuss various requirements for installing DECram for OpenVMS. The installation takes approximately 15 minutes, depending on your type of media and your system configuration.

# Preparing to Install DECram for OpenVMS Installation Procedure Requirements

## Privileges and Disk Space

To install DECram for OpenVMS, you must be logged in to an account that has SETPRV or at least the following privileges enabled:

- CMKRNL
- WORLD
- SYSPRV

Note that VMSINSTAL disables BYPASS privilege at the start of the installation.

The requirements of DECram for OpenVMS for free disk storage space are different during installation and after installation. Table 1–1 summarizes the storage requirements.

**Table 1–1 Disk Space Requirements**

| Kit | Blocks During Installation | Blocks After Installation |
|---|---|---|
| DECram for OpenVMS Version 2.3 | 2500 | 1655 |

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

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

## System Parameters

To install DECram for OpenVMS on an OpenVMS Alpha or on an OpenVMS VAX operating system, you do not need to change the default system parameter settings.

**Note**

Using DECram for OpenVMS on an OpenVMS VAX system requires that you increase the number of System Page Table Entries (SPTEs) and also increase the system parameter SPTREQ. The following sections contain information on how to perform these functions.

### Increasing System Page Table Entries (SPTEs)(VAX Only)

The number of SPTEs is determined by the size of the DECram disk to be created. All SPTEs must be available contiguously or the configuration procedure will fail.

Additional SPTEs for a DECram disk can be created by increasing the size of the system parameter SPTREQ. Use the following algorithm to determine the SPTREQ increase:

(Size of DECram disk in blocks + 127)/128 + 128 = SPTREQ increase

For example, the following algorithm determines that an SPTREQ increase of 207 is required for a DECram disk of 10,000 blocks:

((10,000+127)/128)+128 = 207

### Increasing the System Parameter SPTREQ (VAX Only)

If the current value of SPTREQ is inadequate for a given disk, the system must be rebooted to allow for a larger value. Therefore, Compaq recommends that you increase the SPTREQ value to a multiple of 128. Consequently, the increase for this example should be 256; the amount of memory wasted would be negligible.

To increase SPTREQ by 256, edit the file SYS$SYSROOT:[SYSEXE]MODPARAMS.DAT and add the following line:

```
ADD_SPTREQ 256
```

You must then run the command procedure AUTOGEN.COM using the following command:

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

The SPTREQ value now includes the increase required for the DECram disk.

If more than one DECram disk is created, use the algorithm to determine the initial SPTREQ increase for each disk, then increase each initial value to a multiple of 128. The sum of the individual SPTREQ increases is the total amount required to accommodate all the disks.

## VMSINSTAL Requirements

When you invoke the VMSINSTAL command procedure, it verifies the following, all of which are transparent:

- The default device and directory are set to SYS$UPDATE.
- The installer is logged in to a privileged account.
- Adequate quotas for installation have been set. VMSINSTAL requires that the installation account has a minimum of the following quotas:

  ASTLM = 24
  BIOLM = 18
  BYTLM = 18,000
  DIOLM = 18
  ENQLM = 30
  FILLM = 20

  Use the OpenVMS Authorize utility (AUTHORIZE) to check the values of these quotas for the installation account.
- No other users are logged in to the system.

If VMSINSTAL detects any problems during the installation, it notifies you and asks if you want to continue the installation. In some instances, you can enter YES and press Return to continue. To stop the installation process and correct the situation, enter NO or press Return. Then correct the problem and restart the installation.

## Backing Up Your System Disk

At the beginning of the installation, VMSINSTAL asks if you have backed up your system disk. Compaq recommends that you perform a system disk backup before installing any software.

Use the backup procedures that are established at your site.

For details on performing an OpenVMS Alpha system disk backup, see the *OpenVMS Alpha Upgrade and Installation Manual*.

## Preparing to Install DECram for OpenVMS Installation Procedure Requirements

For details on performing an OpenVMS VAX system disk backup, see the processor-specific upgrade and installation supplement for your system.

# 2
# Installing DECram for OpenVMS

This chapter explains how to install DECram for OpenVMS, and includes information on the Installation Verification Procedure (IVP) and installation messages.

## Installation Procedure

The DECram for OpenVMS installation procedure consists of a series of questions and informational messages. See the sample installation in Appendix A.

To abort the installation procedure at any time, press Ctrl/Y. When you press Ctrl/Y, the installation procedure deletes all files it has created up to that point and exits. You can start the installation again at a later time.

1. **Invoke VMSINSTAL.**

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

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

   The following list defines the elements of the VMSINSTAL command procedure:

   **saveset-name**
   The installation name for the component. For DECram for OpenVMS, use the following installation name:

   ```
   DECRAM
   ```

   **device-name**
   The name of the device on which you plan to mount the installation media. For example, MTA0: is the device name for some tape drives. It is not necessary to use the console drive for this installation. However, if you do use the console drive, once the installation is complete you should return the console media to the console drive.

   **OPTIONS N**
   An optional parameter that indicates you want to see the question on release notes. If you do not include the OPTIONS N parameter, VMSINSTAL does not ask you about the release notes. You should review the release notes before proceeding with the installation. If you are restarting the installation and have already reviewed the release notes, you do not need to specify OPTIONS N.

   There are several other options you can select when you invoke VMSINSTAL:

   - Auto_answer option (A): Initially creates a file that contains your answers to VMSINSTAL questions and prompts. You can then use the option (and the answer file) to save time during a reinstallation.

- Get save-set option (G): Lets you store product save sets temporarily on a magnetic tape or in a disk directory.
- File log option (L): Logs all activity to the terminal during installation.
- Alternate root option (R): Lets you install the product to a system root other than that of the running system.

If you specify more than one option, separate the options with commas and no spaces.

The following example invokes VMSINSTAL to install DECram for OpenVMS from tape drive MTA0: and shows the system response. This example uses the OPTIONS A auto-answer and the OPTIONS N release notes parameters.

```
$ @SYS$UPDATE:VMSINSTAL DECRAM MTA0: OPTIONS A,N

      VAX/VMS Software Product Installation Procedure V5.3


It is 15-Jul-1995 at 09:10.
Enter a question mark (?) at any time for help.
```

If you do not supply either the product name or the device name, VMSINSTAL prompts you for this information later in the installation procedure.

2. **Confirm system disk backup.**

   VMSINSTAL asks if you are satisfied with your system disk backup. You should back up your system disk before performing an installation. If you are satisfied with the backup of your system disk, press Return. Otherwise, enter NO to discontinue the installation. After you back up your system disk, you can restart the installation.

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

3. **Mount the media.**

   You should now mount the distribution volume on the device you specified when you invoked VMSINSTAL. The device name appears in the line preceding the question. VMSINSTAL then asks you if you are ready to continue with the installation.

   If you respond YES to indicate that you are ready, VMSINSTAL displays a message that the media containing DECram for OpenVMS has been mounted on the specified device and that the installation has begun.

   If you entered the wrong device name when you invoked VMSINSTAL and need to restart the installation, enter NO in response to the ‘‘Are you ready?’’ question. To abort the installation for other reasons, press Ctrl/Y.

```
Please mount the first volume of the set on MTA0:.
* Are you ready? YES
%MOUNT-I-MOUNTED, DECRAM MOUNTED ON _$$MTA0:  (NODE 1)
The following products will be processed:
  DECRAM

    Beginning installation of DECRAM V2.2B at 09:12

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

4. **Select a release notes option.**

   If you specified OPTIONS N, VMSINSTAL asks a question on release notes. You have four options for handling the release notes:

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

Additional Release Notes Options:

 1.  Display release notes
 2.  Print release notes
 3.  Both 1 and 2
 4.  None of the above

* Select option [2]:
```

   If you select option 1, VMSINSTAL displays the release notes immediately on the console terminal. You can terminate the display at any time by pressing Ctrl/C.

   If you select option 2, VMSINSTAL prompts you for the name of the print queue:

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

   You can press Return to send the file to the default output print device or you can enter another queue name.

   If you select option 3, VMSINSTAL displays the release notes immediately on the console terminal and then prompts you for a queue name for the printed version.

   Select option 4 if you have already reviewed the release notes and are restarting the installation.

   Next, VMSINSTAL displays the following question:

```
* Do you want to continue the installation [N]?: YES
%VMSINSTAL-I-RELMOVED, The product's release notes have been
                       successfully moved to SYS$HELP.
```

   To continue the installation, enter YES. Otherwise, press Return. In either case, the release notes are copied to a file in the SYS$HELP directory:

```
SYS$HELP:DECRAM.RELEASE_NOTES
```

5. **Purge files.**

   You can purge files from previous versions of DECram for OpenVMS that are superseded by this installation. Purging is recommended because it saves disk space; however, if you need to keep files from the previous version, enter NO in response to the question.

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

6. **Choose the Installation Verification Procedure (IVP) option.**

```
* Do you want to run the IVP after the installation [YES]?
```

   The installation procedure now asks if you want to run the IVP. The IVP for DECram for OpenVMS checks to verify that the installation is successful. Compaq recommends that you run the IVP.

**Note**

The IVP creates a DECram disk MDA0 that remains after the IVP completes. If you do not want this disk, do not run the IVP.

After DECram for OpenVMS is installed, you can run the IVP independently to verify that the software is available on your system. You may also need to run the IVP after a system failure to make sure that users can access DECram for OpenVMS.

7. **Observe the Installation Verification Procedure.**

   If you chose to run the IVP, VMSINSTAL runs it now. When the IVP runs successfully, you see the following display:

```
   Successful Termination of DECram V2.2 IVP.
```

8. **The installation procedure ends.**

```
   Installation of DECRAM V2.2B completed at 09:27

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

   VMSINSTAL procedure done at 09:27
```

   The previous messages indicate that the installation procedure is complete.

   You can now log out of the privileged account:

```
$ LOGOUT
SYSTEM     logged out at 15-Jul-1995 13:21.13
```

   Note that VMSINSTAL deletes or changes entries in the process symbol tables during the installation. Log out and then log in to restore these symbols if you want to continue using the account from which you performed the installation.

**Note**

If you plan to use DECram for OpenVMS on more than one node in an OpenVMS Cluster, you must install DECram for OpenVMS on the other nodes as well.

# DECram Installation Messages

The following messages may be generated by the DECram for OpenVMS installation procedure.

### Missing License Message

The installation procedure checks for the presence of the license to use DECram for OpenVMS. If the license is not found, the following message is sent:

```
A license for DECRAM has not been registered
and loaded. DECRAM will not be installed.
```

License Registration describes how to register the DECram for OpenVMS license.

### DECram for OpenVMS Driver Already Installed Message

If the installation procedure determines that the DECram for OpenVMS driver is already installed on the system, the following message is sent:

```
A DECRAM Driver is already installed on the system.
```

Compaq recommends that you reboot your system, rather than perform a SYSGEN RELOAD, to invoke DECram for OpenVMS.

# 3

# After Installing DECram for OpenVMS

This section describes how to perform the following postinstallation optional tasks:

- Run the IVP after installation (see Running the Installation Verification Procedure Separately).
- Determine and report problems (see Determining and Reporting Problems).
- Print out DECram for OpenVMS documentation (see DECram Documentation).

## Running the Installation Verification Procedure Separately

You usually run the Installation Verification Procedure (IVP) during installation. If you want to run the IVP separately to ensure the integrity of installed files should system problems occur, execute the following command procedure:

```
$ @SYS$UPDATE:DECRAM$IVP
```

**Note**

The IVP creates a DECram disk MDA0 that remains after the IVP completes. If you do not want this disk, do not run the IVP.

## Determining and Reporting Problems

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

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

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

## DECram Documentation

Print the *DECram for OpenVMS User's Manual*, which is contained in the following files:

SYS$HELP:DECRAM_DRIVER_MANUAL.PS
SYS$HELP:DECRAM_DRIVER_MANUAL.TXT

## After Installing DECram for OpenVMS
## DECram Documentation

Print the release notes, if you have not already done so. The release notes are contained in the following file:

SYS$HELP:DECRAM.RELEASE_NOTES

# A

# Supplementary Information

This appendix contains the following information:

- Error recovery and failure messages (see Error Recovery)
- Listing of installed files (see Installed Files)
- Sample installation of DECram for OpenVMS (see Sample Installation)

## Error Recovery

If errors occur during the installation or when the Installation Verification Procedure (IVP) is running, VMSINSTAL displays failure messages. If the installation fails, you see the following message:

```
%VMSINSTAL-E-INSFAIL, The installation of DECRAM V2.3 has failed.
```

If the IVP fails, you will see two messages: either of the first two messages that follow, and the third message:

```
Problem encountered attempting to create a DECram disk.
```

```
Problem encountered initializing a DECram disk.
```

```
Unsuccessful termination of DECram V1.1 IVP.
```

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

- The operating system is a version prior to OpenVMS VAX Version 5.5-2.
- Installation account quotas necessary for successful installation are insufficient.
- System parameter values for successful installation are insufficient.
- The VMS help library is currently in use.
- The product license has not been registered and loaded.

For descriptions of the error messages generated by these conditions, see the OpenVMS documentation on system messages, recovery procedures, and OpenVMS software installation. If you are notified that any of these conditions exist, you should take the appropriate action as described in the message. For information on installation requirements, see Chapter 1.

## Installed Files

The DECram for OpenVMS installation procedure installs a number of files on your system. The following list contains the names of all files changed or created on your system during installation:

- SYS$LIBRARY:DCLTABLES.EXE

  This file is changed when you install DECram Version 2.2 on OpenVMS VAX Versions 5.2 and 5.3.

- SYS$SPECIFIC:[SYS$LDR]MDDRIVER.EXE (used on OpenVMS VAX systems)
  SYS$SPECIFIC:[SYS$LDR]SYS$MDDRIVER.EXE (used on OpenVMS Alpha systems)

  These files are the DECram for OpenVMS device driver (MDDRIVER).

- SYS$SPECIFIC:[SYS$LDR]EXECLET.EXE (used on OpenVMS VAX systems)
- SYS$SPECIFIC:[SYSMGR]DECRAM$RECOVER.DAT
- SYS$SPECIFIC:[SYSMGR]DECRAM$SETRAM.COM
- SYS$SPECIFIC:[SYSMGR]DECRAM$SETSHAD.COM
- SYS$SPECIFIC:[SYSMGR]DECRAM$REC_INIT.EXE
- SYS$SPECIFIC:[SYSEXE]DECRAM$RECOVER.EXE
- SYS$SPECIFIC:[SYSEXE]DECRAM$SETRAM.EXE
- SYS$SPECIFIC:[SYSEXE]DECRAM$SETSHAD.EXE

  These files are applicable to OpenVMS VAX Versions 5.5 or higher, and OpenVMS Alpha Version 6.1.

- SYS$SPECIFIC:[SYSEXE]DECRAM$SIZE.EXE

  This file is applicable to OpenVMS VAX Versions 5.2 and 5.3 only.

- SYS$HELP:DECRAM.RELEASE_NOTES

  This file contains the release notes for DECram for OpenVMS Version 2.3.

- SYS$HELP:DECRAM_DRIVER_MANUAL.PS
  SYS$HELP:DECRAM_DRIVER_MANUAL.TXT

  These files contain the *DECram for OpenVMS User's Manual*. This manual describes the features of the DECram for OpenVMS driver and includes information on how to configure the device and use the device driver.

- SYS$HELP:DECRAM_INSTAL_GUIDE.PS
  SYS$HELP:DECRAM_INSTAL_GUIDE.TXT

  These files contain the instructions for installing DECram for OpenVMS. (This is the document you are now reading.)

- SYS$TEST:DECRAM$IVP.COM

  This file is the Installation Verification Procedure (IVP).

- SYS$EXAMPLES:DECRAM$CONFIG.COM

  This command procedure is used to automatically create and initialize a DECram disk. The *DECram for OpenVMS User's Manual* shows an example of using this procedure.

- SYS$EXAMPLES:RAMDISK$STARTUP.COM

  This procedure is used to build a read-only DECram disk.

- SYS$EXAMPLES:RAMDISK$NODE.DAT

  This data file is used by RAMDISK$STARTUP.COM.

- SYS$EXAMPLES:SCRATCHRAM$STARTUP.COM

  This procedure is used to build a read/write DECram disk.

- SYS$EXAMPLES:SCRATCHRAM$NODE.DAT

  This data file is used by SCRATCHRAM$STARTUP.COM.

## Sample Installation

This section contains a sample installation of DECram for OpenVMS. This sample was run on a system that had no previous version of DECram for OpenVMS installed. Depending on which layered products you have on your system, you might see additional messages and questions when you perform your installation. The sample installation assumes that no users are logged in to your system, and that OPTIONS N is specified not to print or display the release notes. The Installation Verification Procedure (IVP) runs at the end of the installation.

```
$ @SYS$UPDATE:VMSINSTAL

        VAX/VMS Software Product Installation Procedure V7.2


It is 15-Jul-1998 at 08:01.

Enter a question mark (?) at any time for help.
* Are you satisfied with the backup of your system disk [YES]? y
* Where will the distribution volumes be mounted: MUA0:

Enter the products to be processed from the first distribution volume set.
* Products: decram
* Enter installation options you wish to use (none): N
The following products will be processed:
  DECRAM

 Beginning installation of DECRAM V2.3 at 08:02

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

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

    Additional Release Notes Options:

 1.  Display release notes
 2.  Print release notes
 3.  Both 1 and 2
 4.  None of the above

* Select option [2]: 4
* Do you want to continue the installation [NO]? Y

$!  Copyright (c) 1998 Digital Equipment Corporation.  All rights reserved.

%DECRAM-I-VMSOK, Installing DECRam V2.3 on VMS Version V7.2
* Do you want to purge files replaced by this installation [YES]?
* Do you want to run the IVP after the installation [YES]?

%VMSINSTAL-I-RESTORE, Restoring product save set B ...
%VMSINSTAL-I-RESTORE, Restoring product save set C ...
%VMSINSTAL-I-RESTORE, Restoring product save set G ...
%VMSINSTAL-I-MOVEFILES, Files will now be moved to their target directories...
%SYSTEM-W-NOSUCHDEV, no such device available
```

```
Device              Device           Error    Volume         Free  Trans Mnt
 Name               Status           Count     Label        Blocks Count Cnt
MDA0:               Online               0

Device              Device           Error    Volume         Free  Trans Mnt
 Name               Status           Count     Label        Blocks Count Cnt
MDA0:               Online               0
%MOUNT-I-MOUNTED, MDTST        mounted on _JONAS$MDA0:
Successful Termination of DECram V2.3 IVP.
 Installation of DECRAM V2.3 completed at 08:04

Enter the products to be processed from the next distribution volume set.
* Products: exit
 VMSINSTAL procedure done at 08:04

$
```