VAX DEC/Module Management System Installation Guide

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This document contains instructions for installing the VAX DEC/Module Management System (MMS) on the VMS operating system. It also explains how to read the online release notes before or after installing the product. This document applies to the VAX DEC/Module Management System Version 2.6.

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Preface

This document describes how to install the VAX DEC/Module Management System MMS on the VMS operating system. It is intended for system managers. This document applies to MMS Version 2.6 and higher. The major version number is represented by the digits to the left of the decimal point; the maintenance update version number is indicated by the digits to the right of the decimal point.

Keep this document with your distribution kit. You will need it to install maintenance updates or to reinstall MMS for any other reason.

At the back of this document are two Reader's Comments forms. If you have any comments about this document, please fill out one form and mail it; your comments will be considered for the next revision of the installation guide.

For more information about installing MMS on VMS systems, see your processor-specific installation/operations guide.

The installation procedure is described step-by-step and is, for the most part, self-explanatory. The system prompts you to answer questions and to change volumes, and waits for you to tell it to continue.

Defaults appear in brackets ([ ]) throughout the installation procedure. Text you type is indicated in red.

Preparing to Install MMS

Your bill of materials (BOM) and indented bills report (BIL) specify the number and contents of your media. Be sure to check the contents of your kit against this information. If your kit is damaged or if you find that parts of it are missing, call your Digital representative.

Distribution media must be mounted in numerical order. The installation procedure prompts you to mount the volumes. For more information on how to mount distribution media, see your processor-specific installation /operations guide, which also details several options to the installation procedure.

Prerequisite Software

MMS requires VMS Version 5.2 or higher.

For VMS Version 5.2 (or higher) systems, the following VMS classes are required for full functionality of MMS:

- VMS Required Saveset
- Utilities
- Programming Support

For more information on VMS classes and tailoring, see the *VMS Operating System Software Product Description*.

Accessing the Online Release Notes

MMS provides online release notes. The prompt to display or print the release notes during the installation appears in step 5 of the installation procedure when you invoke VMSINSTAL with the OPTIONS N parameter.

To obtain the MMS Version 2.6 release notes after the installation, type or print the file SYS$HELP:MMS$026.RELEASE_NOTES. (If you have installed prior versions of MMS, you can find the associated release notes up to and including Version 2.5 in SYS$HELP:MMSvvu.RELEASE_NOTES, where vv is the major version number, and u is the update number. Note the omission of the dollar sign ($).) Online help also directs you to the release notes file. After the installation, type the following command:

```
$ HELP MMS RELEASE_NOTES RETURN
```

Installation Procedure Requirements

The installation takes approximately 5 to 45 minutes, depending on the type of media and your system configuration. Before installing MMS, you must have the following privileges and resources:

- SETPRV privileges, or CMKRNL and SYSPRV privileges
- A minimum of 2300 blocks of free disk space during installation; 800 blocks are used after installation
- A minimum of 2 megabytes of physical memory
- A minimum of 160 free global pages plus the size (in number of disk blocks) of the file SYS$LIBRARY:DCLTABLES.EXE at installation.
- A minimum of 3 free global sections at installation; 3 global sections are used after installation

NOTE

You must ensure that your system has the necessary global page and global section SYSGEN quotas for the installation. Failure to do so could cause the DCL tables to be corrupted in some situations.

To determine the number of available global pages on your system, invoke the VMS Install Utility by typing the following command:

```
$  INSTALL LIST/GLOBAL/SUMMARY RETURN

        Summary of Local Memory Global Sections

nnn Global Sections Used,  nnnnn/nnnnn Global Pages Used/Unused
```

When you issue this command, the system displays a summary of the number of global sections used, the number of global pages used, and the number of global pages unused. To exit from the VMS Install Utility, type the EXIT command.

MMS requires approximately 160 global pages. If there are fewer than 160 pages available, you can delete an existing known image with the VMS Install Utility. You can also increase the GBLPAGES system parameter with the VMS System Generation Utility (SYSGEN) by editing the file SYS$SYSTEM:MODPARAMS.DAT and then invoking the AUTOGEN command procedure, SYS$UPDATE:AUTOGEN.COM. For more information on the AUTOGEN command procedure, see your processor-specific installation or operations guide.

You can determine the number of available global sections by invoking SYSGEN as follows:

```
$  RUN SYS$SYSTEM:SYSGEN [RETURN]
SYSGEN>  USE CURRENT [RETURN]
SYSGEN>  SHOW GBLSECTIONS [RETURN]
Parameter Name              Current   Default   Minimum   Maximum Unit  Dynamic
--------------              -------   -------   -------   ------- ----  -------
GBLSECTIONS                     nnn       nnn       nn      nnnn Sections
SYSGEN>  EXIT [RETURN]
```

The first number displayed is the current number of global sections. Compare this to the number of global sections in use as displayed by the VMS Install Utility. MMS requires 3 global sections. Therefore, if the number of global sections used (displayed by INSTALL) plus 3 exceeds the current number of global sections, you must increase the number of available global sections before you can install MMS. To increase the number, you must increase the GBLSECTIONS system parameter with SYSGEN by editing the file SYS$SYSTEM:MODPARAMS.DAT and then invoking the SYS$UPDATE:AUTOGEN.COM procedure. For more information on the AUTOGEN.COM procedure, see your processor-specific installation /operations guide.

If the number of global sections used plus 3 is less than the current number of global sections, you can exit from SYSGEN and continue.

User Account Quotas and Privileges

To use MMS, each account must have a minimum of TMPMBX privilege and have the following minimum requirements:

- AST limit (ASTLM) 14 (minimum)
- Buffered I/O byte count quota (BYTLM) 13000 (minimum)
- Open file limit (FILLM) 6 (minimum)
- Subprocess creation quota (PRCLM) 2 (minimum)

Use the VMS Authorize Utility (AUTHORIZE) to compare the current values of these quotas with the requirements for MMS. For example, the account used in the following example is the SYSTEM account:

```
$  SET DEFAULT SYS$SYSTEM [RETURN]
$  RUN AUTHORIZE [RETURN]
UAF>  SHOW SYSTEM [RETURN]
```

To change the values of these quotas, use the VMS Authorize Utility's MODIFY command. For more information, see the *VMS Authorize Utility Manual*.

VMS License Management Facility

The VMS License Management Facility (LMF) is available with Version 5.0 (and higher) of the VMS operating system. Before you install MMS, you must register your MMS software license, or an equivalent license, such as the VAXset software license.

The license registration information you need is contained in the Product Authorization Key (PAK) that is shipped with MMS. The PAK is a paper certificate that contains information about the license.

During the installation, you are asked if you have registered the MMS license and loaded the appropriate authorization key. You must register and load your license for MMS *before* you start the installation in order to run the Installation Verification Procedure (IVP) and use the software.

To register a license under VMS V5.0 (or higher), first log in to the system manager's account, SYSTEM. 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 Product Authorization Key (PAK).
- Issue the LICENSE REGISTER DCL command with the appropriate qualifiers that correspond to information on the PAK.

For complete information on using LMF, see the manual on the License Management Utility in the VMS documentation set.

Using MMS with Other Tools

MMS includes support for forms in VAX FMS libraries. If FMS is not installed on your system, the procedure will print the following message:

```
%MMS-I-NOFMSSUPP, DEC/MMS will not contain support for VAX FMS.
```

To use MMS to access forms stored in FMS libraries, you must have already installed FMS on your system. If you install or reinstall FMS after you have installed MMS, FMS support will not be available. You must reinstall MMS for FMS support.

Using VMSINSTAL

After you log in to a privileged account to install MMS, set the default device to SYS$UPDATE: and then invoke VMSINSTAL, the command procedure that installs this product.

VMSINSTAL has the following format:

```
$ @SYS$UPDATE:VMSINSTAL MMS02n ddcu: [OPTIONS N]
```

You can also type an asterisk (*) in place of MMS02n. If you are installing from magnetic tape, you can use the asterisk to save installation time; the asterisk causes MMS to be installed with a minimum of tape passes. Note that if there are multiple products on the same magnetic tape and you specify the asterisk, VMSINSTAL will install all the products on the tape.

n
Represents the maintenance update of MMS. Refer to the label on the MMS distribution kit, BIL, or BOM for the maintenance update number of your kit.

ddcu:
Represents a device name where the distribution volumes will be mounted, where *dd* is the device code, *c* is the controller code, and *u* is the unit number. It is not necessary to use the console drive to install MMS. If you do use the console drive, you should replace any media you removed from the drive. CSA1: is the device name used in examples in this document.

OPTIONS N
Is an optional parameter you should provide if you want to be prompted to display or print the release notes. If you do not include the OPTIONS N parameter, VMSINSTAL does not prompt you to display or print the release notes. VMSINSTAL permits the use of several other options. For more information on the other options, see your processor-specific installation /operations guide.

If you do not supply the first two parameters, VMSINSTAL prompts you for the product and device names. If you wish to be prompted for the product and device names and to display or print the release notes, type the following:

```
$  @SYS$UPDATE:VMSINSTAL OPTIONS N RETURN
```

When you invoke VMSINSTAL, it checks the following:

- Whether you are logged in to a privileged account. Digital recommends that you install software from the system manager's account with your default device and directory set to SYS$UPDATE.
- Whether you have adequate quotas for installation. VMSINSTAL checks for the following quota values:
  - ASTLM = 24
  - BIOLM = 18
  - BYTLM = 18000
  - DIOLM = 18
  - ENQLM = 30
  - FILLM = 20

  VMSINSTAL then checks whether the following conditions exist. If so, discontinue the conditions before resuming the installation procedure.

  - Whether DECnet is up and running
  - Whether any users are logged in to the system

  If VMSINSTAL detects either of these conditions, you will be asked whether you want to continue the installation. If you want to continue, type YES. If you want to stop the installation, press RETURN.

  You must register the information contained in the Product Authorization Key (PAK) that is shipped with MMS or VAXset by using either the VMS License command procedure (SYS$UPDATE:VMSLICENSE) or the LICENSE REGISTER and LICENSE LOAD commands, as described in the *VMS License Management Utility Manual*.

Installing MMS

This section contains excerpts from the installation procedure and explains each step. Defaults appear in brackets throughout the installation procedure.

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 then returns you to DCL level. If you want to retry the installation procedure after pressing CTRL/Y, you must proceed from step 2.

Step 1: Log in to a privileged account and set your default device and directory to SYS$UPDATE.

```
RETURN
Username:  SYSTEM   RETURN
Password:           RETURN
$  SET DEFAULT SYS$UPDATE  RETURN
```

Step 2: Invoke VMSINSTAL.

```
$  @VMSINSTAL MMS026 CSA1: OPTIONS N  RETURN

      VAX/VMS Software Product Installation Procedure Vn.n

It is dd-mmm-yyyy at hh:mm.
Enter a question mark (?) at any time for help.

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

If you are satisfied with the backup of your system disk, press RETURN. Otherwise, type NO and press RETURN to discontinue the installation.

Step 3: Insert the first installation kit volume.

```
Please mount the first volume of the set on CSA1:.
* Are you ready?  YES  RETURN
The following products will be processed:

  VAX DEC/MMS V2.6


    Beginning installation of VAX DEC/MMS V2.6 at hh:mm

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

To indicate that you want to continue the installation, mount volume 1, type YES, and press RETURN.

Step 4: Insert the subsequent installation kit volumes.

```
%BACKUP-I-READYREAD, mount volume 2 on _CSA1: for reading

Enter "YES" when ready:  YES  RETURN
```

VMSINSTAL prompts you to insert the next volume and waits for you to type YES after inserting it. If you type NO, VMSINSTAL displays the prompt again. This prompt is displayed only if your installation kit contains more than one volume.

Step 5: Select a release notes option.

This step applies only if you specified OPTIONS N in step 2.

```
Release Notes Options:

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

* Select option [2]:  RETURN
```

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

If you select option 2, VMSINSTAL prompts you for a queue name. Either type a queue name or press RETURN to send the file to the default output printer.

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

If you select option 3, VMSINSTAL displays the release notes on line immediately, and then prompts you for a queue name. Either type a queue name or press RETURN to send the file to the default output printer. The MMS release notes are then copied to SYS$HELP:MMS$026.RELEASE_NOTES.

If you select option 4, VMSINSTAL copies the release notes to SYS$HELP immediately.

If you select option 5, VMSINSTAL does not display or print the release notes, but copies them to SYS$HELP. Typically, you select this option to terminate the installation.

NOTE

The release notes file installed by VMSINSTAL is labeled with the current product name, dollar sign, and version number (for example, MMS$026). Take care not to delete release notes for previous versions of MMS.

Next, VMSINSTAL displays the following:

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

If you want to continue the installation, type YES and press RETURN. If you type NO or press RETURN, VMSINSTAL discontinues the installation. In either case, VMSINSTAL moves the release notes to SYS$HELP.

Step 6: Respond to License Registration Queries.

MMS supports the VMS License Management Facility (LMF). The installation procedure displays license information about your product and then asks if you have registered and loaded your authorization key for MMS. The following is an example of such information:

```
Product:       MMS
Producer:      DEC
Version:       2.6
Release Date:  DD-MMM-YYYY

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

You must register and load your product authorization key (PAK) to successfully complete the installation. If you have not done so, you must answer NO to this question. Register and load your PAK, and then restart the installation.

Step 7: Select installation options.

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

The Installation Verification Procedure (IVP) runs tests to check whether the installation procedure was successful. Press RETURN to run the IVP after the installation. If you do not want to run the IVP, type NO in response to the prompt.

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

The directories SYS$EXAMPLES, SYS$HELP, and SYS$SYSTEM may contain previous versions of MMS files. These files are replaced during the installation with new files, but the old files are not automatically purged. Purging is recommended. In response to the purging prompt, press RETURN to purge the files or type NO to keep them.

Step 8: Read informational messages.

The MMS installation procedure produces a number of informational messages that report on the progress of the installation.

```
No further questions will be asked.  The DEC/MMS installation
will now continue for approximately 5 to 45 minutes, depending
on your type of media and your system configuration.

%VMSINSTAL-I-RESTORE, Restoring product saveset B ...
%MMS-I-NOFMSSUPP, DEC/MMS will not contain support for VAX FMS.
%MMS-I-LINKIMAGE, Linking V2.6.
```

NOTE

You see the previous message only if FMS is not installed on your

system.

The success of the installation is indicated by the following message:

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

If the installation procedure is successful, the new or modified files are moved to their target directories. In addition, the SYS$HELP:HELPLIB.HLB and SYS$LIBRARY:DCLTABLES.EXE files are updated to include the new versions of MMS help text and the MMS command line definition.

The following files are created or modified by the installation procedure:

SYS$HELP:HELPLIB.HLB
SYS$HELP:MMS$026.RELEASE_NOTES
SYS$LIBRARY:DCLTABLES.EXE
SYS$SYSTEM:MMS.EXE
SYS$TEST:MMS$IVP.COM
[SYSHLP.EXAMPLES.MMS]MMS$DEFAULT_RULES.MMS
[SYSHLP.EXAMPLES.MMS]MMS$DEFAULT_SHELL_RULES.MMS

If you typed YES in response to the prompt that requests a file purge at step 7, previous versions of the MMS files are now purged.

Step 9: Run the Installation Verification Procedure.

If you chose to run the IVP in step 7, VMSINSTAL now calls the IVP to verify that MMS was installed successfully, and displays the following:

```
%MMS-I-BEGINIVP, Beginning V2.6 IVP.
%MMS-I-ENDIVP, V2.6 IVP SUCCESSFUL.
```

Step 10: End the installation procedure.

```
   Installation of MMS V2.6 completed at hh:mm

   VMSINSTAL procedure done at hh:mm

$  LOGOUT  RETURN
SYSTEM     logged out at dd-mmm-yyyy hh:mm:ss.ss
```

When the product installation procedure is complete, you can choose to install more products or to log out (as shown here.) If you removed any media from the console drive before beginning the installation, you should replace it now.

VMSINSTAL deletes or changes entries in the process symbol tables during the installation. Therefore, if you are going to continue using the system manager's account and you want to restore these symbols, you should log out and log in again.

Installing MMS on a VAXcluster

To run MMS on multiple nodes of a VAXcluster, first check to see that you have the appropriate software license. Then, follow these steps after installing MMS:

1. Issue the LICENSE LOAD command to activate the license on each node in the VAXcluster on which MMS is to be executed as described in the *VMS License Management Utility Manual*.
2. Issue the following command on each node in the VAXcluster on which MMS is to be executed:

   ```
   $  CREATE/DIRECTORY SYS$SPECIFIC:[SYSHLP.EXAMPLES.MMS] RETURN
   ```

3. To use the product on other nodes in the VAXcluster, you must replace the version of the DCL tables that is installed on the other VAXcluster nodes. To do this, perform the following steps:
   a. Log in to a node on the cluster.
   b. Enter the following command at the DCL prompt:

      ```
      $  INSTALL REPLACE SYS$LIBRARY:DCLTABLES.EXE RETURN
      ```

   c. Repeat steps a and b for each node of the cluster.

After the Installation

MMS is now installed and can be invoked with the MMS command.

The installation procedure modifies the DCL command table so that the MMS command is recognized and processed. However, the previous command table is still in effect for those users who are currently logged in. All logged-in users who want to use the MMS command must log out of the system and log in again.

If MMS will be used extensively on your system, you can reduce system overhead and memory requirements by installing it as a shared image using the VMS Install Utility. For more information, see the Installing MMS as a Shared Image section.

Running the Installation Verification Procedure Separately

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

```
$ @SYS$TEST:MMS$IVP RETURN
```

If you are installing MMS on a VAXcluster, you should run the IVP for each node on the cluster that is licensed to run MMS.

If the IVP fails for any reason, the following messages are displayed:

```
The VAX DEC/MMS V2.6 Installation Verification Procedure failed.
%VMSINSTAL-E-IVPFAIL, The IVP for VAX DEC/MMS V2.6 has failed.
```

Error Conditions

If the installation procedure fails for any reason, a message like the one following is displayed:

```
%VMSINSTAL-E-INSFAIL, The installation of MMS V2.6 has failed.
```

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

- Operating system version is incorrect.
- Quotas necessary for successful installation are insufficient (see the Installation Procedure Requirements section).
- Process quotas required by VMSINSTAL are incorrect (see the Using VMSINSTAL section).
- The VMS HELP library is currently in use.
- The product was registered incorrectly or not registered.

For descriptions of the error messages generated by these conditions, see the *VMS System Messages and Recovery Procedures Reference Volume*, your processor-specific installation/operations guide, or the *VMS License Management Utility Manual*.

If you are notified that any of these conditions exist, you should take the appropriate action as described in the message. You may need to change a system parameter or increase an authorized quota value.

If the installation fails, you must restart the installation procedure from step 2. If the installation fails due to an IVP failure, contact a Digital field service representative.

Installing MMS as a Shared Image

If MMS will be used extensively on your system, you can reduce the system overhead and memory requirements by installing it as a shared image. To perform the installation on a system that is currently running, use the VMS Install Utility while you are logged in to a privileged account. If errors occur, see the *VMS System Messages and Recovery Procedures Reference Volume*.

First, determine the number of available global pages and global sections on your system. See the Installation Procedure Requirements section for information on how to do this.

Then, invoke the VMS Install Utility and install MMS as a shared image by typing the following commands:

```
$  INSTALL RETURN
INSTALL>  ADD SYS$SYSTEM:MMS.EXE/OPEN/SHARED  RETURN
INSTALL>  EXIT RETURN
```

Then, update the system startup file to install MMS.

To ensure that MMS is installed as a shared image each time the system is bootstrapped, include the following lines in SYS$MANAGER:SYSTARTUP_V5.COM (the site-specific startup file):

```
$ INSTALL
ADD SYS$SYSTEM:MMS.EXE/OPEN/SHARED
EXIT
```

Maintenance Updates

Digital may periodically issue maintenance updates of MMS. Each update consists of an installation kit. You should install this kit as described in this document or in any documentation that may accompany the maintenance update.

Each time a maintenance update is released, the version number changes. For example, if the current version is 1.0, the version number of the first maintenance update will be 1.1. In addition, each maintenance update includes new release notes. The release notes describe the changes that have been made to MMS since the previous release.

The update release notes are provided on line. You should read the release notes when you first install MMS; they are also accessible at any time after the product is installed. For information on reading the release notes at the time that you install MMS, follow the installation procedure through step 5. To locate the release notes after MMS is installed, display or print the file SYS$HELP:MMS$026.RELEASE_NOTES, or type the following command :

```
$ HELP MMS RELEASE_NOTES RETURN
```

Reporting Problems

If an error occurs while you are using MMS and you believe that the error is caused by a problem with MMS, take one of the following actions:

- If you purchased MMS within the past 90 days and you think the problem is caused by a software error, you can submit a Software Performance Report (SPR).
- If you have a Basic or DECsupport Software Agreement, you should call your Customer Support Center. With these services, you receive telephone support that provides high-level advisory and remedial assistance. For more information, contact your local Digital representative.
- If you have a Self-Maintenance Software Agreement, you can submit a Software Performance Report (SPR).

If you find an error in the MMS documentation, please fill out and submit a Reader's Comments form from the back of the document in which the error was found. Include the section and page number where the error was found.

Sample Installation

This section contains a sample installation of MMS. Note that this is only a sample. Sometimes the installation procedure is modified in maintenance updates of this product. Because this installation guide is not usually revised for maintenance updates, be sure to read the Read Before Installing or Using VAX DEC/Module Management System cover letter before you install this product. This letter notes any significant changes in the installation that vary from this sample.

```
Username:  SYSTEM [RETURN]
Password:  [RETURN]
$  SET DEFAULT SYS$UPDATE [RETURN]
$  @VMSINSTAL MMS026 CSA1: OPTIONS N [RETURN]

 VAX/VMS Software Product Installation Procedure Vn.n
It is 15-OCT-1990 at 09:53.
Enter a question mark (?) at any time for help.

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

Please mount the first volume of the set on DUA0:.
* Are you ready?  YES [RETURN]
%MOUNT-I-MOUNTED, MMS mounted on _DUA0:

The following products will be processed:
  MMS V2.6
       Beginning installation of MMS V2.6 at 09:54

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

    Release Notes Options:

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

* Select option [2]:  4 [RETURN]
* Do you want to continue the installation?  YES [RETURN]
 %VMSINSTAL-I-RELMOVED , The product's release notes have been successfully moved
 to SYS$HELP

  +------------------------------+
  | Installation of DEC/MMS V2.6 |
  +------------------------------+

 The installation can be aborted at any time by pressing CTRL/Y.

Product:      MMS
Producer:     DEC
Version:      2.6
Release Date: DD-MMM-YYYY
* Does this product have an authorization key registered and loaded?  YES [RETURN]

 This kit contains an Installation Verification Procedure (IVP)
 to verify the correct installation of DEC/MMS.  It can be run
 prior to the conclusion of this procedure by answering "YES" to
 the IVP prompt or invoked after the installation as follows:

  @SYS$TEST:MMS$IVP

* Do you want to run the IVP after the installation [YES]?  YES [RETURN]
* Do you want to purge files replaced by this installation [YES]?  YES [RETURN]

 No further questions will be asked.  The DEC/MMS installation
 will now continue for approximately 5 to 45 minutes, depending
 on your type of media and your system configuration.

%VMSINSTAL-I-RESTORE, Restoring product saveset B ...
%MMS-I-LINKIMAGE, Linking V2.6.
%VMSINSTAL-I-SYSDIR, This product creates system directory [SYSHLP.EXAMPLES.MMS].
```

```
    If you intend to execute this layered product on other nodes in your
    VAXcluster, and you have the appropriate software license, you must
    prepare the system-specific roots on the other nodes by issuing the
    following command on each node (using a suitably privileged account):

 $ CREATE /DIRECTORY SYS$SPECIFIC:[SYSHLP.EXAMPLES.MMS]
%VMSINSTAL-I-MOVEFILES, Files will now be moved to their target directories...
%MMS-I-BEGINIVP, Beginning V2.6 IVP.
%MMS-I-ENDIVP, V2.6 IVP SUCCESSFUL.
 Installation of MMS V2.6 completed at 10:00

Enter the products to be processed from the next distribution volume set.
* Products:  EXIT RETURN
 VMSINSTAL procedure done at 10:01
$  LOGOUT RETURN
  SYSTEM       logged out at  15-OCT-1990 10:01:13.83
```