VAX DEC/Test Manager Installation Guide

Order Number: AA–Z331H–TE

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This document contains instructions for installing VAX DEC/Test Manager 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 VAX DEC/Test Manager Version 3.2 and all maintenance updates throughout that version.

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Preface

This document describes how to install VAX DEC/Test Manager on the VMS operating system. It is intended for system managers. This document applies to VAX DEC/Test Manager Version 3.2 and all maintenance updates in that version. A major version number is represented by the digits to the left of the decimal point, and 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 VAX DEC/Test Manager 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 VAX DEC/Test Manager on VMS systems, refer to 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 VAX DEC/Test Manager

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, refer to your processor-specific installation /operations guide, which also details several options to the installation procedure.

Prerequisite Software

VAX DEC/Test Manager Version 3.2 requires VMS Version 5.3 or higher.

Accessing the Online Release Notes

VAX DEC/Test Manager provides online release notes. The prompt to display or print the release notes before installation appears in step 5 of the installation procedure when you invoke VMSINSTAL with the OPTIONS N parameter.

To obtain the release notes after the installation, type or print the file SYS$HELP:DTM$032.RELEASE_NOTES. Online help also directs you to the release notes file. After the installation, type the following:

```
$  HELP DTM RELEASE_NOTES
```

Installation Procedure Requirements

The installation should take approximately 10 to 20 minutes, depending on the type of media and your system configuration. Before installing VAX DEC/Test Manager, you must have the following privileges and resources:

- SETPRV privileges, or CMKRNL, WORLD, and SYSPRV privileges
- A minimum of 8500 blocks of free disk space during installation; 6000 blocks are used after installation

- A minimum of 800 free global pages plus the size (in number of disk blocks) of the file SYS$LIBRARY:DCLTABLES.EXE at installation; for most efficient operation, you will need a total of 800 free global pages plus the size of SYS$LIBRARY:DCLTABLES.EXE after installation
- A minimum of 12 free global sections at installation; 12 global sections are used after installation
- The minimum number of VMS classes necessary for full functionality as described in the *VAX DEC/Test Manager System Support Addendum*.

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
```

Then type the following command:

```
INSTALL>  LIST/GLOBAL/SUMMARY

        Summary of Local Memory Global Sections

153 Global Sections Used,  11200/8800 Global Pages Used/Unused

INSTALL>  EXIT
```

When you issue these commands, 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.

VAX DEC/Test Manager requires approximately 800 global pages. If fewer than 800 pages are available, you can delete an existing known image with the VMS Install Utility, or you can 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/operations guide.

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

```
$  RUN SYS$SYSTEM:SYSGEN
SYSGEN>  USE CURRENT
SYSGEN>  SHOW GBLSECTIONS

SYSGEN>  EXIT
```

The last number displayed is the maximum number of global sections. Compare this number to the number of global sections in use displayed by the VMS Install Utility. VAX DEC/Test Manager requires 12 global sections. Therefore, if the number of global sections used plus 12 exceeds the maximum number of global sections, you must increase the number of available global sections before you can install VAX DEC/Test Manager. 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 12 is less than the maximum number of global sections, you can exit from SYSGEN and continue.

System Quotas and Privileges

VAX DEC/Test Manager Version 3.2 uses a nonpaged dynamic pool (NPAGEDYN) that is 20 times the total number of VAX DEC/Test Manager users times the maximum size of the buffered I/O transfer size (MAXBUF). Note that this rule applies only to systems running VMS Version 5.3 software. You should set the nonpaged dynamic pool accordingly.

User Account Quotas and Privileges

To use VAX DEC/Test Manager, each account must have TMPMBX and NETMBX privileges and the following minimum requirements:

- AST limit (ASTLM) of 100
- Buffered I/O byte count quota (BYTLM) of 60000
- Enqueue quota (ENQLM) of 1
- Open file limit (FILLM) of 6
- Subprocess creation quota (PRCLM) of 3

NOTE

DECwindows testing may require quotas for other applications being tested.

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

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

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 or higher of the VMS operating system. VAX DEC/Test Manager Version 3.2 requires installation of Version 5.3 or higher of the VMS operating system. If you are installing VAX DEC/Test Manager on a VMS Version 5.3 system, you must register your VAX DEC/Test Manager software license.

The license registration information you need is contained in the Product Authorization Key (PAK) that is shipped with VAX DEC/Test Manager. The PAK is a paper certificate that contains information about the license you have to run a particular piece of software.

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

To register a license under VMS Version 5.3, 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 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.

Special Requirements

The executable file SYS$LIBRARY:DECW$TERMINALSHR.EXE must be installed with the /OPEN and /SHARE qualifiers. VAX DEC/Test Manager does this automatically during the startup procedure.

Using VMSINSTAL

After you log in to a privileged account to install VAX DEC/Test Manager, set the default directory to SYS$UPDATE and then invoke VMSINSTAL, the command procedure that installs this product. An example of this procedure is shown in steps 1 and 2 of the Installing VAX DEC/Test Manager section.

The VMSINSTAL command procedure has the following syntax:

```
$  @SYS$UPDATE:VMSINSTAL DTM03n ddn: [OPTIONS N]
```

n
Represents the maintenance update of VAX DEC/Test Manager. Refer to the label on the VAX DEC/Test Manager distribution kit or the VAX DEC/Test Manager BOM or BIL for the maintenance update number of your kit. You can also type an asterisk (*) in place of DTM03n. If you are installing from magnetic tape, you can use the asterisk to save installation time; the asterisk causes VAX DEC/Test Manager to be installed with a minimum of tape passes.

ddn:
Represents a device name where the distribution volumes will be mounted for the VAX DEC/Test Manager installation media, where *dd* is the device code and *n* is the unit number. It is not necessary to use the console drive to install VAX DEC/Test Manager. 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. Note that VMSINSTAL permits the use of several other options. For more information on the other options, refer to 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 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 = 18
  - BIOLM = 20
  - BYTLM = 60000
  - DIOLM = 11
  - ENQLM = 6
  - FILLM = 50
  - PGFLQUO = 30000
  - PRCLM = 18
  - TQELM = 10
  - WSDEF = 512
  - WSQUO = 1024
  - WSEXTENT = 3600

  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.

  Register the information contained in the Product Authorization Key that is shipped with VAX DEC/Test Manager by using either the VMS License command procedure (VMSLICENSE) or the LICENSE REGISTER and LICENSE LOAD commands, as described in *VMS License Management Utility Manual*.

Installing VAX DEC/Test Manager

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 DTM03n CSA1: OPTIONS N  RETURN

      VAX/VMS Software Product Installation Procedure VX.X


It is 15-JUN-1990 at 09:00.
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/Test Manager V3.2


    Beginning installation of VAX DEC/Test Manager V3.2 at 09:03

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

To indicate that you want to continue the installation, mount volume 1, type YES, and then 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 print device.

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

If you select option 3, VMSINSTAL displays the release notes on line immediately. You can terminate the display at any time by pressing CTRL/C. VMSINSTALL then prompts you for a queue name. Either type a queue name or press RETURN to send the file to the default output print device. The VAX DEC/Test Manager release notes are then copied to SYS$HELP:DTM$032.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, print, or copy the release notes, but moves them to SYS$HELP. Typically, this option is selected when the user wants to end the installation.

NOTE

The release notes file installed by VMSINSTAL is labeled with the current product name, dollar sign, and a version number (for

example, DTM$032). Take care not to delete release notes for previous versions of VAX DEC/Test Manager.

Next, VMSINSTAL displays the following prompt:

```
* Do you want to continue the installation [N]?:  Y RETURN
%VMSINSTAL-I-RELMOVED, The product 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: Select installation options.

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

The directories SYS$EXAMPLES, SYS$HELP, SYS$LIBRARY, SYS$MANAGER, and SYS$SYSTEM may contain previous versions of VAX DEC/Test Manager 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 7: Respond to license registration queries.

VAX DEC/Test Manager supports the VMS License Management Facility. The installation procedure displays license information about your product and then asks if you have registered and loaded your authorization key for VAX DEC/Test Manager. The following is an example of such information:

```
Product:       DTM
Producer:      DEC
Version:       3.2
Release Date:  dd-mmm-yyyy

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

If you have not registered and loaded your authorization key, you must answer NO to this question. You have to register and load your product authorization key to successfully complete the installation. If you answer YES to this question and you have not registered and loaded the authorization key, you are asked if you would like to complete the installation without running the IVP. However, the next time you invoke VAX DEC/Test Manager you will receive a message indicating that you are not licensed to run the product.

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

The Installation Verification Procedure runs tests to verify that the installation was successful. If the IVP determines that you have insufficient quotas to run the IVP, you are notified as to which quotas need to be increased and then asks if you would like to complete the installation without running the IVP. Press RETURN to run the IVP after the installation. If you do not want to run the IVP, type NO at the prompt.

Step 8: Read informational messages.

The VAX DEC/Test Manager installation procedure produces a number of informational messages that report on the progress of the installation.

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.

The SYS$HELP:HELPLIB.HLB and SYS$LIBRARY:DCLTABLES.EXE files are updated to include the new versions of the VAX DEC/Test Manager HELP text and the VAX DEC/Test Manager command line definition.

If you typed YES in response to the prompt that requests a file purge at step 6, previous versions of the VAX DEC/Test Manager files are now purged.

Step 9: Observe the installation verification procedure.

If you chose to run the IVP in step 7, VMSINSTAL calls the IVP to verify that VAX DEC/Test Manager was installed successfully.

```
%DTM-I-IVPBEGIN, Begin Installation Verification Procedure
.
.
.
%DTM-I-IVPEND, End Installation Verification Procedure
```

Step 10: End the installation procedure.

```
   Installation of VAX DEC/Test Manager V3.2 completed at 09:28

   VMSINSTAL procedure done at 09:28

$  LOGOUT  RETURN
SYSTEM     logged out at 15-JUN-1990 09:29:00.00
```

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 VAX DEC/Test Manager on a VAXcluster

If you want to run VAX DEC/Test Manager on multiple nodes of a VAXcluster, first check to see that you have the appropriate software license. Then, follow these steps after installing VAX DEC/Test Manager:

1. Issue the LICENSE LOAD command to activate the license on each node in the VAXcluster on which VAX DEC/Test Manager is to be executed as described in the *VMS License Management Utility Manual*.
2. Run SYS$STARTUP:DTM$STARTUP.COM on each node of the cluster that has a software license.

   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.

Running VAX DEC/Test Manager on a Mixed VAXcluster

Some users may want to run VAX DEC/Test Manager Version 3.2 on a mixed VAXcluster that supports various versions of VMS on different nodes. Note that if VAX DEC/Test Manager Version 3.2 is to be used for interactive terminal testing with a system running Version 5.3 of VMS on the VAXcluster, then VAX DEC/Test Manager has to be installed on the Version 5.3 system.

After the Installation

VAX DEC/Test Manager is now installed and can be invoked by all users with the DTM command.

The installation procedure modifies the DCL command table so that the DTM 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 DTM command must log out of the system and log in again.

You should edit SYS$STARTUP:SYSTARTUP_V5.COM, the site-specific startup file, and add the following line:

```
@SYS$STARTUP:DTM$STARTUP.COM
```

The VAX DEC/Test Manager installation procedure puts the command file DTM$STARTUP.COM in the SYS$MANAGER directory. The file DTM$STARTUP.COM contains commands to install VAX DEC/Test Manager images.

VAX DEC/Test Manager Files

The VAX DEC/Test Manager installation places the following files in the following directories on the system:

Directory	File Name
SYS$STARTUP	DTM$STARTUP.COM
SYS$SYSTEM	DTM.EXE
SYS$LIBRARY	DTM$DW_DEFAULTS.DAT DTM$DW.UID DTMSHR.EXE DTMIMGSHR.EXE DTM$XTRAP.EXE DECW$SERVER_EXTENSION_XTRAP.EXE
SYS$LOADABLE_IMAGES	PCDRIVER.EXE
VUE$LIBRARY	DTM$PROFILE.VUE$DAT DTM$VUE_STARTUP.COM
SYS$HELP	DTM$DW_HELPLIB.HLB DTM$032.RELEASE_NOTES
SYS$TEST	DTM$IVP.COM

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$TEST:DTM$IVP.COM RETURN
```

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

```
*****************************************************************************
*                                                                           *
*              DEC/Test Manager verification procedure failed.              *
*                                                                           *
*****************************************************************************

%VMSINSTAL-E-IVPFAIL, The IVP for VAX DEC/Test Manager V3.2 has failed.
```

Error Conditions

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

```
%VMSINSTAL-E-INSFAIL, The installation of VAX DEC/Test Manager V3.2 has failed.
```

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

- Operating system version is incorrect.
- Prerequisite software 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*, refer to 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.

Maintenance Updates

Digital may periodically issue maintenance updates of VAX DEC/Test Manager. 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 VAX DEC/Test Manager since the previous release.

The update release notes are provided on line. You should read the release notes when you first install VAX DEC/Test Manager; 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 VAX DEC/Test Manager, follow the installation procedure through step 5. To locate the release notes after VAX DEC/Test Manager is installed, display or print the file SYS$HELP:DTM$032.RELEASE_NOTES.

Determining and Reporting Problems

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

- If you purchased VAX DEC/Test Manager within the past 90 days and you think the problem is caused by a software error, submit a Software Performance Report (SPR).
- If you have a Basic or DECsupport Software Agreement, 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, submit a Software Performance Report (SPR).

If you find an error in the VAX DEC/Test Manager documentation, 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 VAX DEC/Test Manager. 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/Test Manager* letter before you install this product. This letter notes any significant changes in the installation that vary from this sample.

```
$ @vmsinstal

        VAX/VMS Software Product Installation Procedure V5.3

It is 15-JUL-1990 at 08:58.
Enter a question mark (?) at any time for help.

%VMSINSTAL-W-DECNET, Your DECnet network is up and running.
%VMSINSTAL-W-ACTIVE, The following processes are still active:
        SYSTEM
        DECW$WM_1
        DECW$TE_1
        SYSTEM_TWA123
        SYSTEM_TWA124
* Do you want to continue anyway [NO]?  YES RETURN
* Are you satisfied with the backup of your system disk [YES]?  YES RETURN
* Where will the distribution volumes be mounted:  CSA1: RETURN

Enter the products to be processed from the first distribution volume set.
* Products:  DTM032 RETURN
* Options:
```

```
The following products will be processed:

  DTM V3.2


        Beginning installation of DTM V3.2 at 12:13

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


        Product:      DTM
        Producer:     DEC
        Version:      3.2
        Release Date: dd-mmm-yyyy


* Does this product have an authorization key registered and loaded?  YES RETURN
* 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
%DTM-I-DONEASK, No further questions will be asked during this installation.
%VMSINSTAL-I-RESTORE, Restoring product saveset B ...

%DTM-I-ENDRESTORE, All DEC/Test Manager savesets have been restored.
%DTM-I-LINKPCDRIVER, Linking PCDRIVER.EXE, ignore no transfer address warning.
%LINK-W-USRTFR, image VMI$ROOT:[SYSUPD.DTM032]PCDRIVER.EXE;1 has no user transfe
r address
%DTM-I-PROHELP, Providing DEC/Test Manager DCL and DECwindows help.
%DTM-I-PRODCL, Providing DCL verb for DEC/Test Manager.
%DTM-I-PROEXE, Providing DEC/Test Manager files.
******************************************************************************
*                                                                            *
*  The DEC/Test Manager IVP has been moved to the SYS$TEST directory.  To run  *
*  the IVP after installation, enter @SYS$TEST:DTM$IVP.COM.                  *
*                                                                            *
******************************************************************************
******************************************************************************
*                                                                            *
*  If this installation is being performed on a cluster, you must execute      *
*                                                                            *
*                       $ @SYS$STARTUP:DTM$STARTUP.COM                       *
*                                                                            *
*  on all nodes in the cluster.  In addition, you must add the above line to   *
*                                                                            *
*                        SYS$MANAGER:SYSTARTUP_V5.COM                        *
*                                                                            *
******************************************************************************
%VMSINSTAL-I-MOVEFILES, Files will now be moved to their target directories...
******************************************************************************
*                                                                            *
*                        Installing DEC/Test Manager                         *
*                                                                            *
******************************************************************************
******************************************************************************
*                                                                            *
*           Begining the DEC/Test Manager verification procedure             *
*                                                                            *
******************************************************************************
```

```
DEC/Test Manager Version 3.2
%DTM-S-CREATED, DEC/Test Manager library VMI$ROOT:[SYSUPD.DTM032.DTMTEST] create
d
%DTM-S-LIBIS, DEC/Test Manager library is VMI$ROOT:[SYSUPD.DTM032.DTMTEST]
%DTM-I-DEFAULTED, benchmark file name defaulted to TESTX.BMK
%DTM-S-CREATED, test description TESTX created
%DTM-S-MODIFIED, test description TESTX modified
%DTM-I-DEFAULTED, benchmark file name defaulted to DECWX.BMK
%DTM-I-DEFAULTED, template file name defaulted to DECWX.SESSION
%DTM-S-CREATED, test description DECWX created

Test Descriptions in DEC/Test Manager Library VMI$ROOT:[SYSUPD.DTM032.DTMTEST]

DECWX           "decwindows test"
    Template        = DECWX.SESSION
    Benchmark       = DECWX.BMK
    Prologue        = None Specified
    Epilogue        = None Specified

TESTX           "first test"
    Template        = DTM$IVP.COM
    Benchmark       = DTM$IVP.COM
    Prologue        = None Specified
    Epilogue        = None Specified
%DTM-S-CREATED, symbol variable VAR1 created
%DTM-S-MODIFIED, variable VAR1 modified

Variables in DEC/Test Manager Library VMI$ROOT:[SYSUPD.DTM032.DTMTEST]

VAR1            "first variable"
    Value = NEWVALUE
%DTM-S-CREATED, group GROUP1 created

Groups in DEC/Test Manager Library VMI$ROOT:[SYSUPD.DTM032.DTMTEST]

GROUP1          "test group"
%DTM-S-CREATED, group GROUP2 created
%DTM-S-INSERTED, group GROUP1 inserted into group GROUP2
%DTM-S-REMOVED, group GROUP1 removed from group GROUP2

Groups in DEC/Test Manager Library VMI$ROOT:[SYSUPD.DTM032.DTMTEST]

GROUP1              GROUP2
%DTM-S-CREATED, collection COLL1 created

Collections in DEC/Test Manager Library VMI$ROOT:[SYSUPD.DTM032.DTMTEST]

COLL1          1 test    15-JUL-1990 12:28:31
       Command: CREATE COLLECTION/NOVERIFY COLL1 TESTX "test collection"
       Status: not run
```

```
%DTM-S-DELETED, collection COLL1 deleted
%DTM-I-DELETED, test_description DECWX deleted
%DTM-I-DELETED, test_description TESTX deleted
%DTM-S-DELETIONS, 2 deletions completed
%DTM-I-DELETED, variable VAR1 deleted
%DTM-S-DELETIONS, 1 deletion completed
%DTM-I-DELETED, group GROUP1 deleted
%DTM-I-DELETED, group GROUP2 deleted
%DTM-S-DELETIONS, 2 deletions completed
%DTM-I-VERFRE, free space list verified
%DTM-I-VERSTR, string list verified
%DTM-I-VERCOL, collection list verified
%DTM-I-VERGRO, group list verified
%DTM-I-VERTD, test description list verified
%DTM-I-VERVAR, variables list verified
%DTM-I-VERARC, archive list verified
%DTM-I-VERHEAD, user header information verified
%DTM-I-VERSPACE, contiguous space verified
%DTM-I-VERCOLDIR, collection directory structure verified
%DTM-S-VERIFIED, DEC/Test Manager library VMI$ROOT:[SYSUPD.DTM032.DTMTEST] verif
ied
******************************************************************************
*                                                                            *
*           DEC/Test Manager verification procedure successful               *
*                                                                            *
******************************************************************************

        Installation of DTM V3.2 completed at 12:29

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

        VMSINSTAL procedure done at 12:32


$
```