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This manual explains the installation procedure for PROGRAMMABLE DEVICE SUPPORT. It specifies the VAX/VMS parameters that should be set or adjusted to optimize performance of PROGRAMMABLE DEVICE SUPPORT. The Release Notes provide additional information.

PROGRAMMABLE DEVICE SUPPORT

Software Installation Guide/Release Notes

SUPERSESSION/UPDATE INFORMATION: This is a new document for this release.

OPERATING SYSTEM AND VERSION: VAX/VMS V3.5

SOFTWARE VERSION: PROGRAMMABLE DEVICE SUPPORT
Version 1.0

ORDER NUMBER:

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PREFACE

1.0 Manual Objectives

The PROGRAMMABLE DEVICE SUPPORT Software Installation Guide/Release Notes manual shows how to install PROGRAMMABLE DEVICE SUPPORT on VAX/VMS.

2.0 Audience

This manual is intended for individuals responsible for setting up and maintaining the VAX/VMS operating system and PROGRAMMABLE DEVICE SUPPORT software.

3.0 Prerequisites

Readers of this manual should have a solid understanding of VAX/VMS operations and administration and VAX application software. In addition, a knowledge of the specific requirements of the installation site is essential.

4.0 Structure of This Document

This manual is organized as follows:

Chapter 1: Gives an overview of the PROGRAMMABLE DEVICE SUPPORT system.

Chapter 2: Describes the PROGRAMMABLE DEVICE SUPPORT distribution kit, installation prerequisites, and the actual installation procedure.

Chapter 3: Contains Release Notes which you should read before installing PROGRAMMABLE DEVICE SUPPORT. This chapter includes information not included elsewhere in the documentation set, changes made late in the development cycle, software errors, and documentation omissions.

Preface

Appendix A: Shows a sample installation procedure.

5.0 Associated Documents

Further information on various topics covered in this manual may be found in the following manuals:

- o DECnet VMS System Manager's Guide
(order number AA-H803B-TE)
- o BASEWAY Installation Guide/Release Notes (order number XX-12345-01)
- o SHOP FLOOR GATEWAY Installation Guide/Release Notes
(order number XX-12355-01)
- o BASEWAY System Programmer's Guide
(order number XX-12346-01)
- o BASEWAY User's Manual and Utilities Guide
(order number XX-12347-01)
- o PROGRAMMABLE DEVICE SUPPORT User's Manual and Utilities Guide
(order number XX-12367-01)
- o VAX FMS Installation Guide and Release Notes
(order number AA-L321A-TE)
- o VAX FMS Utilities Reference Manual
(order number AA-L320A-TE)
- o VAX PL/I Installation Guide
(order number AA-J179A-TE)
- o VAX Software Installation Guide
(order number AA-M545A-TE)
- o VAX/VMS Command Language User's Guide
(order number AA-D023B-TE)

o VAX/VMS System Manager's Guide

(order number AA-M547A-TE)

6.0 Disposition of Software Performance Reports (SPRs)

Questions, problems, and enhancements to Digital software should be reported on a Software Performance Report (SPR) form and mailed to the appropriate Digital office. Only one problem should be described concisely on each SPR form. Please include all programs and data in machine-readable form and reference the SPR form number on the materials.

Preface

CHAPTER 1

OVERVIEW OF PROGRAMMABLE DEVICE SUPPORT

PROGRAMMABLE DEVICE SUPPORT is a tool to help you support the programmable devices in your factory. It helps you to examine and modify programmable devices. In addition, PROGRAMMABLE DEVICE SUPPORT is capable of providing timely and accurate documentation for all supported devices.

A "production library" is used by PROGRAMMABLE DEVICE SUPPORT to store programs for each programmable device. Individual user libraries are also available and, unless they are explicitly authorized to do so, users may never affect the production library. Because of this facility, problems caused by typical cassette tape storage, such as unreliability, mislabeling, duplication, and loss, are virtually eliminated.

PROGRAMMABLE DEVICE SUPPORT presents a common device interface to all programmable devices. It allows individuals to work from terminals connected to the system so that routine tasks such as uploading and downloading can be accomplished at a location remote from the plant floor.

Access of all users to programmable device programs is controlled and maintained with PROGRAMMABLE DEVICE SUPPORT. Additionally, in the event of plant power failure, PROGRAMMABLE DEVICE SUPPORT can automatically reload the desired devices.

1.1 Programmable Devices Supported

The following programmable device vendor support is available:

- o Allen-Bradley PLC-2/30, PLC-3
- o Modicon 484, 584

Overview of PROGRAMMABLE DEVICE SUPPORT

1.2 Network Configuration Supported

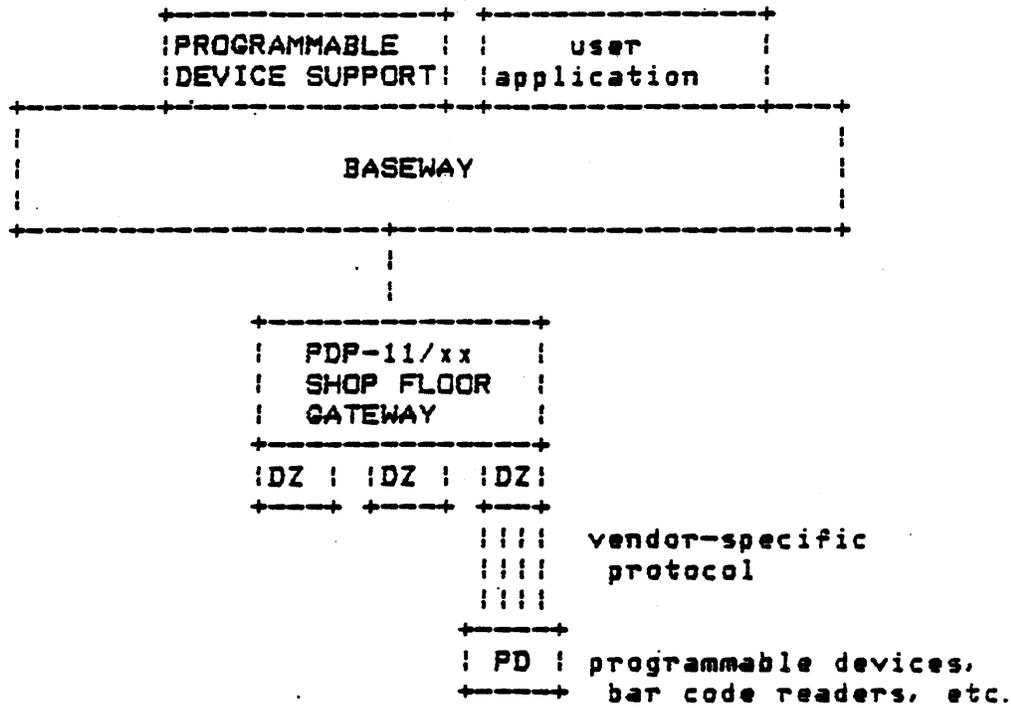


Figure 1. Typical Configuration

1.3 Hardware Requirements

- VAX 11/750 and VAX 11/780 with a minimum of 4 megabytes of memory (memory size dependent upon application)
- VT100 terminals with Advanced Video, or VT200-Series terminals

1.4 Software Requirements

- VAX/VMS, Version 3.5
- BASEWAY, Version 1.0
- VAX FMS, Version 2.1

Overview of PROGRAMMABLE DEVICE SUPPORT

CHAPTER 2

INSTALLING THE SOFTWARE

The system manager should be familiar with the installation process as described herein for use in installing upgrades and updates.

Depending on the mass storage device and the system load, the installation of PROGRAMMABLE DEVICE SUPPORT may take from 20 to 30 minutes.

2.1 Backing Up the System Disk Before Software Installation

It is recommended that the system disk be backed up prior to installation. The procedure for doing the backup is described in the VAX Software Installation Guide.

2.2 Contents of the Distribution Kit

The PROGRAMMABLE DEVICE SUPPORT installation kit is distributed on magnetic tape. All files required to install the PROGRAMMABLE DEVICE SUPPORT system are contained on the distribution.

Each volume is labeled with an external serial number corresponding to the PROGRAMMABLE DEVICE SUPPORT product number and has a unique volume label.

<u>Volume Label</u>	<u>Medium</u>	<u>Contents</u>
PDS010	1600 bpi magnetic tape	PROGRAMMABLE DEVICE SUPPORT installation procedures and software

Installing the Software

NOTE: Be sure to check that the distribution kit you receive contains everything listed in the bill of materials enclosed with it.

2.3 Installation Procedure

2.3.1 Preliminary Requirements

NOTE: PROGRAMMABLE DEVICE SUPPORT requires VAX/VMS Version 3.5 or later.

- o approximately 5900 blocks (PROGRAMMABLE DEVICE SUPPORT peak usage) during installation
- o approximately 5600 blocks (PROGRAMMABLE DEVICE SUPPORT net usage) after installation
- o previous installation of BASEWAY (Version 1.0) and VAX-DECnet (Version 3.0).

2.3.2 Instructions for Installation

Messages are printed at your terminal during the installation procedure. Most are simple "Yes" or "No" questions which require either a Y or N response.

Proceed as follows at the console terminal (user input is shown in uppercase letters):

2.3.2.1 STEP 1: Log In to the System Manager's Account -

1. Log in under a privileged system manager's account, as shown in the following example:

```
cr
Username: SYSTEM cr
Password: cr
```

2. Now set up the proper group and user number and set the default directory to SYSUPD as follows:

```
$ SET UIC [1,4]
$ SET DEFAULT SYS$UPDATE
```

Installing the Software

2.3.2.2 STEP 2: Invoke VMSINSTAL -

When you invoke VMSINSTAL, it checks the following:

- o Are you logged into the system manager's account?

It is recommended that you install layered software from the system manager's account. However, any account with the necessary privileges is acceptable.

- o Do you have adequate account quotas for installing layered products?

As long as the quotas listed in Section 2.3.1 are met, you can continue with the installation.

- o Is DECnet up and running?

You should bring down DECnet before installing BASEWAY. Although the installation may succeed, problems can occur if someone tries to access any file associated with PROGRAMMABLE DEVICE SUPPORT (including the system HELP files) during the installation.

- o Are any users logged into the system?

Users should be asked to log out before PROGRAMMABLE DEVICE SUPPORT is installed. Although the installation may succeed, problems can occur if someone tries to use PROGRAMMABLE DEVICE SUPPORT while the installation is in progress.

If any of these conditions are noted, VMSINSTAL will give you an opportunity to stop the installation procedure (see below):

To invoke VMSINSTAL, enter the following:

```
* @VMSINSTAL PDSnnn ddn:
```

The VMSINSTAL command procedure takes two parameters:

1. product name--for PROGRAMMABLE DEVICE SUPPORT, the name always begins with "PDS" and ends with a 3-digit version number. For example, Version 1.6 would be called PDS016. Hereinafter, this document will refer to the version number as Vn.n.

2. device name--device names have the form ddn:, where dd is the device code and n is the unit number. For example, the first floppy diskette drive would be called "DY0:".

NOTE: It is not necessary to use the console drive for installing PROGRAMMABLE DEVICE SUPPORT. However, if you do use it, be sure to replace any media you may have found in the drive when the installation is complete.

VAX/VMS Software Product Installation Procedure

It is dd-*mmm*-19yy at hh:mm.

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

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

If you feel that there are conditions which may adversely affect the installation, enter N. To continue, enter the letter Y (or press RETURN). Note that the VMSINSTAL procedure gives the default user response in brackets.

2.3.2.3 STEP 3: Insert the First Installation Kit Volume -

Please mount the first volume of the set on ddn:.

Insert the first volume of the distribution kit in the tape drive. Enter "Y" when you are ready to continue. Note that you must explicitly enter a "Y" or "N"; pressing RETURN is not an adequate response here.

* Are you ready? Y

The PROGRAMMABLE DEVICE SUPPORT installation procedure now assumes control. The procedure checks to see that there is adequate disk space to build the product. If not, it issues an error message and terminates. Otherwise, the procedure processes the first volume of the backup save set.

NOTE: If the SYSGEN parameters MOUNTMSG or DISMOUMSG at your site have been set to 1, you will receive a message from OPCOM each time a disk, tape, or floppy diskette is mounted or dismounted. These messages are normally disabled, but if they have been activated and you are installing from a console terminal, they will appear from 1 to 30 seconds after each mount or dismount.

%MOUNT-I-MOUNTED, PDS*nnn* mounted on ddn:

Installing the Software

The following products will be installed:

PDS Vn.n

Beginning installation of PDS Vn.n at hh:mm

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

At this point, if you need to exit from the installation procedure, you must press CTRL/Y.

NOTE: If you press CTRL/Y, the installation procedure deletes all files it has created up to that point and exits.

PDSSTART.COM, the startup command procedure, is used to set up the environment for PROGRAMMABLE DEVICE SUPPORT. During installation it will be placed in the [SYSMGR] directory of the system root on which this installation is being performed. SYS#MANAGER:SYSTARTUP.COM your system startup procedure, should be modified to invoke this procedure when the system boots. However, it will not be necessary to reboot the system after the installation, since this procedure is invoked as part of the installation.

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

The Installation Verification Procedure (IVP) next runs tests to check that the installation procedure was successful.

Installation Verification Procedure (IVP) starting

The installation verification of PROGRAMMABLE DEVICE SUPPORT vn.n succeeded.

Successful installation of PDS Vn.n at hh:mm

PROGRAMMABLE DEVICE SUPPORT images and libraries are now successfully installed.

You may now install more products, or you can end the installation procedure. To end the installation procedure, type EXIT (or press RETURN).

Enter the products to be installed from the next distribution volume set.

* Products [EXIT]: EXIT

VMSINSTAL procedure done at hh:mm

\$

If you removed any media from the console drive before beginning, you can replace it now.

WARNING: VMSINSTAL deletes symbols and changes entries in the logical name tables during the installation. Therefore, if you are going to continue using the system manager's account, you should log out and log in again to restore those tables.

2.3.3 Error Conditions

If the installation procedure or IVP fail for any reason, the following messages are displayed:

XVMSINSTAL-E-PDSFAIL, The installation of PDS Vn.n has failed.
XVMSINSTAL-E-IVPFAIL, The IVP for PDS Vn.n has failed.

An error during the installation or IVP can be caused by one or more of the following conditions:

- o insufficient disk space to complete the installation
- o insufficient system virtual page count parameter
- o insufficient process paging file quota
- o insufficient process working set quota
- o insufficient system maximum working set
- o corrupt distribution

To change a system parameter, or to increase an authorized quota value, you may need to contact your installation system manager.

2.4 Backup Procedure After Installation

After installing PROGRAMMABLE DEVICE SUPPORT you should back up the system disk and save the original for future reference. See the VAX Software Installation Guide for information on the proper procedure.

Installing the Software

2.5 Complete List of Installed Files

<u>Filename</u>	<u>Purpose</u>
SYS\$SYSROOT: [SYSMGR]	
PDSSTART.COM	PROGRAMMABLE DEVICE SUPPORT startup command file
SYS\$SYSROOT: [SYSMMSG]	
PDSMSG.EXE	Image file containing PROGRAMMABLE DEVICE SUPPORT messages
SYS\$SYSROOT: [BSL. SYSTEM]	
EDTUSER.EXE	User definition editor image file
SYS\$SYSROOT: [PDS. A1MENU]	
ALLINI.FLB	Standard form library for ALL-IN-1 menu support
COMP.COM	Command file to run COMP image from ALL-IN-1
DEVLADDER.COM	Command file to run DEVLADDER image from ALL-IN-1
DEVSTAT.COM	Command file to run DEVSTAT image from ALL-IN-1
DOCFILE.COM	Command file to run DOCFILE image from ALL-IN-1
DOWNLOAD.COM	Command file to run DOWNLOAD image from ALL-IN-1
GENSTAT.COM	Command file to run GENSTAT image from ALL-IN-1
LADDEROUT.COM	Command file to run LADDEROUT image from ALL-IN-1
LBDISPLAY.COM	Command file to run LBDISPLAY image from ALL-IN-1
LIBBRIEF.COM	Command file to run LIBBRIEF image from ALL-IN-1
LIBCOPY.COM	Command file to run LIBCOPY image from ALL-IN-1
LIBDELETE.COM	Command file to run LIBDELETE image from ALL-IN-1
LIBFILCMP.COM	Command file to run LIBFILCMP image from ALL-IN-1
LIBRENAME.COM	Command file to run LIBRENAME image from ALL-IN-1
LIBSPOOL.COM	Command file to run LIBSPOOL image from ALL-IN-1
UPLOAD.COM	Command file to run UPLOAD image from ALL-IN-1
UTLREGDSP.COM	Command file to run UTLREGDSP image from ALL-IN-1
UTLREGMOD.COM	Command file to run UTLREGMOD image from ALL-IN-1
SYS\$SYSROOT: [PDS. MENU]	
MENU.FLB	Standard form library for BASEWAY menu driver
SYS\$SYSROOT: [PDS. SYSTEM]	
1774.MDF	Required file for XLATE image
COMP.EXE	"Compare Device Logic" image file
DEVLADDER.EXE	"Create Ladder Listing" image file
DEVSTAT.EXE	"Display Detailed Device Status" image file

DOCFILE. EXE	"Edit Logic Documentation" image file
DOWNLOAD. EXE	"Download Device Logic" image file
DPF. DAT	Required file for XL3 image
FOR002. DAT	Required file for XL3 image
GENSTAT. EXE	"Display Device Status" image file
GROUPDEF. DAT	Group definition data file
HELP. DAT	Required file for XL3 image
LADDEROUT. EXE	"Display Ladder Listing" image file
LBDISPLAY. EXE	"Display Detailed Directory" image file
LIBBRIEF. EXE	"Display Brief Directory" image file
LIBCOPY. EXE	"Copy File" image file
LIBDELETE. EXE	"Delete File" image file
LIBFILCMP. EXE	"Compare Two Files" image file
LIBPRVCOP. EXE	Foreign File Copy image file
LIBRENAME. EXE	"Rename File" image file
LIBSPOOL. EXE	"Print File" image file
LL3841. EXE	Modicon 184/384 translator image file
LL3842. EXE	Modicon 184/384 translator image file
LL3843. EXE	Modicon 184/384 translator image file
LL3844. EXE	Modicon 184/384 translator image file
LL484. EXE	Modicon 484 translator image file
LL4842. EXE	Modicon 484 translator image file
LL4843. EXE	Modicon 484 translator image file
LL4844. EXE	Modicon 484 translator image file
LL584. EXE	Modicon 584 translator image file
LL5842. EXE	Modicon 584 translator image file
LL5843. EXE	Modicon 584 translator image file
LL5844. EXE	Modicon 584 translator image file
LL584S. EXE	Modicon 584S translator image file
MENU. DAT	Required file for XL3 image
NULL. IOC	Required file for XL2 image
NULL. OCF	Required file for XLATE image
NULL. STI	Required file for XLATE image (null documentation file)
PATHDEF. DAT	Path definition data file
PATHDIR. DAT	Path directory data file
PATHLIB. DAT	Path library data file
PDSFORMS. FLB	Form library for all PROGRAMMABLE DEVICE SUPPORT images
PRMROF. DAT	Required file for XL3 image
PRMTST. DAT	Required file for XL3 image
PROGDIR. DAT	Program directory data file
PROGLIB. DAT	Program library data file
UTLREGDSP. EXE	"Display Device Memory" image file
UTLREGMOD. EXE	"Modify Device Memory" image file
UPLOAD. EXE	"Upload Device Logic" image file
XL2. EXE	Allen-Bradley PLC-2 translator image file
XL2BA. BLK	Required file for XL2
XL2BA. HLP	Required file for XL2
XL2BA. MDF	Required file for XL2
XL2BA. TXT	Required file for XL2
XL2TMPL. ROF	Required file for XL2
XL3. EXE	Allen-Bradley PLC-3 translator image file

Installing the Software

XLATE.EXE	Allen-Bradley PLC translator image file
XLATET1.CMD	Required file for XLATE (template for listing)
XLATET2.CMD	Required file for XLATE (template for full listing)

CHAPTER 3

RELEASE NOTES

This chapter contains information important to the installation and operation of PROGRAMMABLE DEVICE SUPPORT.

3.1 PROGRAMMABLE DEVICE SUPPORT User Editor

When PROGRAMMABLE DEVICE SUPPORT is installed on a system, the standard BASEWAY user definition editor is replaced by a PROGRAMMABLE DEVICE SUPPORT user editor. The PROGRAMMABLE DEVICE SUPPORT editor is functionally identical to the BASEWAY editor, except for the "LIBRARY" field:

- o The BASEWAY editor treats this field as a "documentation" field, and performs no action based on this field except saving the contents in the user record.
- o The PROGRAMMABLE DEVICE SUPPORT editor treats this field as a PROGRAMMABLE DEVICE SUPPORT library specification, and creates a PROGRAMMABLE DEVICE SUPPORT user library record and a VMS directory based on the value of the field.

If PROGRAMMABLE DEVICE SUPPORT users are defined with the BASEWAY editor before the product is installed, they will be unable to access any programs. To alleviate this problem, simply call up these users with the PROGRAMMABLE DEVICE SUPPORT editor and press Keypad 7 (Update) to create the necessary records and directories.

Release Notes

3.2 Problem with PLC-2 and PLC-3 Loads

During both downloads and uploads on PLC-2 and PLC-3 devices, the device gets allocated by the 1771-KA card. For the duration of the upload or download, other users (i.e., industrial terminal) are disabled from accessing the device. After the upload or download is finished, the PLC device upload/download routines send a command to release the device to the 1771-KA card. This procedure is required by the mode of operation of the 1771-KA card and is specified by Allen-Bradley.

If the upload/download is terminated prematurely by forcing the program to exit (e.g., ^C, stopping the process), the 1771-KA card will be left with the industrial terminal port in a disabled mode. In order to reenable it, the KA card must either be reset by powering it down or the aborted operation must be reexecuted.

Of course, if a download is aborted, the PLC will be in an undetermined state and must be reloaded with a correct program.

3.3 Problem with Multiple Translators

When a ladder listing is created, a vendor-supplied translation program is usually run to do the translation. These programs create a number of temporary work files while translating. Unfortunately, the file names are fixed in the vendor code, and cannot be changed by Digital.

With PROGRAMMABLE DEVICE SUPPORT, translation programs run out of the user's PROGRAMMABLE DEVICE SUPPORT library. Thus, temporary work files are created in the program library, and deleted when the translation is finished.

If a user tried to do two translations simultaneously, or if two users had the same PROGRAMMABLE DEVICE SUPPORT library, the results would be unpredictable, since the files are opened and closed several times during execution and they would get mixed up between the translators.

Because of this, the PROGRAMMABLE DEVICE SUPPORT system will not currently allow a user to run more than one translation at a time for any single programmable device vendor (fortunately, different vendors used different file names). PROGRAMMABLE DEVICE SUPPORT does not check to see if more than one user has the same PROGRAMMABLE DEVICE SUPPORT library defined. If two users have the same PROGRAMMABLE DEVICE SUPPORT library, and they do translates at the same time, the results are unpredictable. This restriction will be removed as PLC vendors insure that file names are process ID-based and unique.

APPENDIX A
SAMPLE INSTALLATION PROCEDURE

```
$ SET UIC [1,4]  
$ SET DEFAULT SYS$UPDATE  
$ @VMSINSTAL PDS010 MSAO:
```

VAX/VMS Software Product Installation Procedure

It is 1-JUN-1984 at 12:05.
Enter a question mark (?) at any time for help.

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

Please mount the first volume of the set on MSAO:.

* Are you ready? YES

%MOUNT-I-MOUNTED, PDS010 mounted on _MSAO:

The following products will be installed:

PDS V1.0

Beginning installation of PDS V1.0 at 12:07

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

PDSSTART.COM, the startup command procedure, is used to set up the environment for PROGRAMMABLE DEVICE SUPPORT. During installation it will be placed in the [SYSMGR] directory of the system root on which this installation is being performed. SYS\$MANAGER:SYSTARTUP.COM, your system startup procedure, should be modified to invoke this procedure when the system boots. However, it will not be necessary to reboot the system after the installation, since this procedure is invoked as part of the installation.

Sample Installation Procedure

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

Installation Verification Procedure (IVP) starting

The installation verification of PROGRAMMABLE DEVICE SUPPORT V1.0
succeeded.

Successful installation of PDS V1.0 at 12:32

Enter the products to be installed from the next distribution
volume set.

* Products [EXIT]: EXIT

VMSINSTAL procedure done at 12:35

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