DECdesign

Installation Guide

Order Number: AA-PABSB-TE

May, 1991

This document contains instructions for installing DECdesign Version 1.1 on the VMS operating system. It also explains how to read the online release notes before or after installing the product.

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CDD, CDD/Plus, DDIF, DEC, DECdesign, DECnet, DECwindows, DECwrite, Digital, Rdb, VAX, VAXcluster, VAX Document, VMS, VT

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Contents

Preface v

1 Preparing to Install DECdesign

1.1 Required Operating System Components 1–1
1.2 Prerequisite Hardware 1–2
1.3 Prerequisite Software 1–2
1.4 Prerequisites for DECdesign Version 1.0 Users 1–3
1.5 License Registration 1–3
1.6 Installation Procedure Requirements 1–3
1.6.1 Privileges and Disk Space 1–4
1.6.2 System Parameters 1–5
1.6.2.1 Checking System Parameter Values 1–6
1.6.2.2 Calculating the Values for GBLPAGES and GBLSECTIONS 1–7
1.6.2.3 Changing System Parameter Values with AUTOGEN . . . 1–7
1.6.2.4 Setting Dynamic System Parameter Values 1–8
1.6.2.5 Tuning The Lock-Related Parameters 1–9
1.6.3 Process Account Quotas 1–9
1.6.4 VMSINSTAL Requirements 1–10
1.6.5 Backing Up Your System Disk 1–11

2 Installing DECdesign

2.1 The Installation Procedure 2–1
2.2 Error Recovery 2–10

3 After Installing DECdesign

3.1 Editing the System Files 3–2
3.2 Modifying System Parameters 3–2
3.3 Completing Installation of the Server 3–2
3.4 Completing Installation of the Online Training 3–4
3.5 VAXcluster Considerations 3–6
3.6 User Account Requirements 3–6
3.6.1 Privileges 3–6
3.6.2 User Account Quotas 3–6
3.7 Tailoring Your System 3–7
3.8 Determining and Reporting Problems 3–9

A Sample Installation

B Files and Logical Names Installed on Your System

B.1 File Names B–1
B.2 Logical Names B–7

Tables

1–1 Disk Space Requirements 1–4
1–2 Minimum Required System Parameter Values 1–5
1–3 Values for Lock Parameters 1–9
1–4 Process Account Quotas for the Installing Account 1–9
3–1 User Account Quotas for Using DECdesign 3–7
B–1 Files Installed by DECdesign B–1

Preface

This document describes how to install DECdesign Version 1.1 on the VMS operating system. It is intended for system managers.

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

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

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

1
Preparing to Install DECdesign

This chapter discusses the preparations and requirements necessary for installing DECdesign.

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

DECdesign provides online release notes. Digital strongly recommends that you read the release notes before proceeding with the installation. For information on accessing the online release notes, see Section 2.1.

1.1 Required Operating System Components

The VMS operating system comes with a variety of support options, or classes. Classes include such features as networking and RMS journaling. To use DECdesign, your system should be running a version of VMS that includes the following classes:

- VMS classes include the following:
  - BASE
  - Network Support
  - Programming Support
  - System Programming Support
  - Secure User's Environment
  - Utilities
- DECwindows classes include the following:
  - DECwindows applications files
  - DECwindows device support files

- 75 dots per inch video font files

For a complete list of the required classes, see the Software Support Addendum (SSA), which comes with the Software Product Description (SPD).

1.2 Prerequisite Hardware

There are no special hardware requirements for installing DECdesign.

1.3 Prerequisite Software

This section discusses the software you must have installed on your system before installing DECdesign. The System Software Addendum (SSA) contains a complete list of prerequisite software and their required version numbers.

Before installing DECdesign Version 1.1, ensure that the folllowing software is already installed on your system:

- VMS 5.4 or later.
- CDD/Plus Version 4.3 or later. (CDD/Plus is not necessary for client-only installations of DECdesign.) If you already have Version 4.3 or later on your system, it is not necessary to reinstall it.
- Rdb/VMS Version 4.0 or later. If you already have Version 4.0 or later on your system, it is not necessary to reinstall it.

If you plan to install DECdesign V1.1 on a system with CDD Repository V5.0 or higher, the methodology template libraries provided in the DECdesign V1.1 kit will not work. You can complete the installation of DECdesign without the methodology template libraries (the installation procedure provides appropriate prompts). After the installation of DECdesign, you then invoke an upgrade routine that provides methodology template libraries compatible with CDD Repository V5.0 or higher. The upgrade savesets, containing only the methodology template libraries, are included on the media with CDD Repository kits for V5.0 or higher.

The upgrade contains four savesets: DESCDD.A, DESCDD.B, DESCDD.C, DESCDD.D. Before invoking the upgrade, please read the release notes included in saveset A.

If you install new versions of CDD/Plus or Rdb/VMS after installing DECdesign, you may have to convert the user-created DECdesign design libraries on your system. For more information, see Chapter 3.

1.4 Prerequisites for DECdesign Version 1.0 Users

If you have DECdesign libraries created with Version 1.0, you must extract them *before* installing Version 1.1. Additionally, Yourdon libraries must be converted after the extraction. The procedure for this is described in the release notes.

1.5 License Registration

Before you install and run DECdesign Version 1.1 on a newly-licensed node or cluster, you must first register a License Product Authorization Key (License PAK) using the License Management Facility (LMF). The License PAK may be shipped along with the kit if you ordered the license and media together; otherwise, it is shipped separately to a location based on your license order.

If you are installing DECdesign as an update on a node or cluster already licensed for this software, you must upgrade your PAK to reflect licensing changes. There is a PAK for the entire DECdesign platform and each design methodology has its own PAK.

You must register and load your license for DECdesign *before* you start the installation in order to run the Installation Verification Procedure (IVP) and use the software.

To register a license under VMS, 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 License PAK.
- At the DCL prompt, enter the LICENSE REGISTER command with the appropriate qualifiers that correspond to License PAK information.

If you plan to use DECdesign on more than one node in a VAXcluster, you will need to perform a license load on the other nodes after you complete this installation. See Section 3.5.

For complete information on using LMF, see the *VMS License Management Utility Manual*.

1.6 Installation Procedure Requirements

This section and those that follow discuss various requirements for installing DECdesign.

The installation takes approximately 20 to 60 minutes, depending on your type of media and your system configuration.

Installing DECdesign and running the IVP on a standalone VAX 3100 system takes 20 minutes.

1.6.1 Privileges and Disk Space

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

- CMKRNL
- WORLD
- SYSPRV

Note that VMSINSTAL turns off BYPASS privilege at the start of the installation.

DECdesign's requirements 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

Component	Blocks During Installation	Blocks After Installation
Client	14500	14500
Server	14500	520
Yourdon[1]	23,100	19,100
Gane & Sarson[1]	23,600	19,600
Merise[1]	20,870	16,870
Online Training	9,000	9,000

[1]When you install more than one methodology (for example, Yourdon and Gane & Sarson), the total blocks used during installation is 4,000 blocks less than the sum of the components.

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

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

During installation, you can define DES$PREDEFINED to point to a different disk, which reduces the space requirements on your system disk after installation as follows:

Component	Approximate Block Reduction
Yourdon	17,652
Gane & Sarson	17,647
Merise	13,838

1.6.2 System Parameters

During and after installation, DECdesign requires certain system parameter settings. Additionally, you can use system parameters to tune your system for optimal performance (see Section 3.7 for information). Table 1–2 lists the minimum required system parameter values for the installation. Depending on the kinds of programs and applications running at your site, you might need higher values for some settings.

Table 1–2 Minimum Required System Parameter Values

System Parameter	Minimum Value
CLISYMTBL[1]	250
CHANNELCNT[1]	100
CTLPAGES[1]	32
GBLPAGES[2]	5,588 (without server) 5,918 (with server)
GBLPAGFIL[1]	12,200[4]
GBLSECTIONS[1 2 3]	118[4] (without server) 121[4] (with server)
LOCKIDTBL_MAX[1]	2,048
NPAGEDYN[1]	900,096
PAGEDYN[1]	1,000,448
PROCSECTCNT	80

[1]These system parameters are required by CDD/Plus, which is an underlying component of the DECdesign software. These parameters are not required when you install a client-only version of DECdesign because the client-only version does not use CDD/Plus.

[2]The values listed for these system parameters represent the number of free global pages and global sections required for the installation, not the total number you need to run your system and other software.

[3]This parameter is discussed further in Section 3.7.

[4]You might need to increase this number for the DCL tables.

(continued on next page)

Table 1–2 (Cont.) Minimum Required System Parameter Values

System Parameter	Minimum Value
RESHASHTBL[1] [3]	512
SRPCOUNT[1]	1,024
SRPCOUNTV[1]	2,048
SYSMWCNT	500
VIRTUALPAGECNT[1]	80,000
WSMAX[3]	5,000

[1]These system parameters are required by CDD/Plus, which is an underlying component of the DECdesign software. These parameters are not required when you install a client-only version of DECdesign because the client-only version does not use CDD/Plus.

[3]This parameter is discussed further in Section 3.7.

The following sections show you how to:

- Check system parameter values
- Calculate values for the GBLPAGES and GBLSECTIONS system parameters
- Change parameter values with the VMS AUTOGEN command procedure
- Set dynamic parameters with the VMS System Generation Utility (SYSGEN)

1.6.2.1 Checking System Parameter Values

To check the values of your system parameters, enter the following command at the DCL prompt to invoke the System Generation Utility (SYSGEN):

```
$  RUN SYS$SYSTEM:SYSGEN
SYSGEN>
```

At the SYSGEN> prompt, enter the SHOW command to display the value of a system parameter. The values displayed should equal or exceed the value of each system parameter listed in Table 1–2. The following example displays the value for the WSMAX system parameter:

```
SYSGEN>  SHOW WSMAX
```

After checking the parameters with the SHOW command, enter the EXIT command at the SYSGEN> prompt to return to DCL level.

1.6.2.2 Calculating the Values for GBLPAGES and GBLSECTIONS

To install and run DECdesign, you must have sufficient free global pages and global sections. You must first find out how many free global pages and sections you have on your system. Then use AUTOGEN if you need to increase the GLBPAGES and GBLSECTIONS system parameters.

Use the WRITE command with the F$GETSYI lexical function to find the number of free global pages and global sections. The following example shows how to get this information at your terminal (the default for SYS$OUTPUT):

```
$  WRITE SYS$OUTPUT F$GETSYI("FREE_GBLPAGES")
15848
$  WRITE SYS$OUTPUT F$GETSYI("FREE_GBLSECTS")
24
```

If the values displayed by the system are greater than the values in Table 1–2, you do not need to increase the values for these parameters. If the value of free global pages or global sections is less than the value in Table 1–2, you must increase the system parameter setting.

1.6.2.3 Changing System Parameter Values with AUTOGEN

Use the AUTOGEN command procedure to change system parameters. AUTOGEN automatically adjusts values for parameters that are associated with the values you reset manually. To change system parameters with AUTOGEN, edit the following file:

```
SYS$SYSTEM:MODPARAMS.DAT
```

Use an editor to access the file. To change a parameter value listed in this file, delete the current value associated with that parameter and enter the new value.

To add a new parameter, add a line to the file that includes both the name of the parameter and its value. For example:

```
WSMAX = 6000
```

You can help tune your system by specifying a minimum value for parameters and letting AUTOGEN decide the most efficient value at or above the specified amount. To do this, precede the parameter value with "MIN_". (See Section 3.7 for advice on minimum settings.) For example:

```
MIN_WSMAX = 6000
```

To modify incremental parameters such as GBLPAGES and GBLSECTS, use ADD_. The following example increases the global page setting by 2000:

```
ADD_GBLPAGES = 2000
```

After you make all your changes, exit from the editor and execute the AUTOGEN procedure to recalculate your system parameters. Enter the following command at the DCL prompt:

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

When you specify REBOOT, AUTOGEN performs an automatic system shutdown and then reboots the system. Any users logged on to the system are immediately disconnected during the shutdown. The automatic reboot puts the new parameter values into effect.

The AUTOGEN Utility automatically adjusts some of the SYSGEN parameters based on the consumption of resources since the last reboot. If you do not want to take advantage of this automatic adjustment, include the NOFEEDBACK qualifier on the AUTOGEN command line. For example:

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

For more information about using AUTOGEN, see the VMS System Management Subkit.

1.6.2.4 Setting Dynamic System Parameter Values

The CLISYMTBL and LOCKIDTBL_MAX parameters in Table 1–2 are dynamic system parameters. Use the System Generation Utility (SYSGEN) to set dynamic parameters. Dynamic parameters changed with the SYSGEN WRITE ACTIVE command become active immediately without any need to reboot your system.

Once you change dynamic parameter values, you should complete the installation before rebooting the system. After you finish with the installation, you can reset the dynamic parameters to their previous values or let them be reset automatically when you next reboot your system.

If the dynamic parameter values on your system are less than the values previously listed, use the following series of commands to change the values. This example changes the CLISYMTBL value to 250.

```
$  RUN SYS$SYSTEM:SYSGEN
SYSGEN>  USE ACTIVE
SYSGEN>  SET CLISYMTBL 250
SYSGEN>  WRITE ACTIVE
SYSGEN>  EXIT
```

1.6.2.5 Tuning The Lock-Related Parameters

During the first few weeks that VAX CDD/Plus is installed, check the actual number of locks your system is using by invoking the VMS Monitor Utility (MONITOR):

```
$ MONITOR LOCK
```

This displays the maximum number of locks outstanding during the monitor period. You can use this value to tune the LOCKIDTBL_MAX and RESHASHTBL parameters according to the guidelines shown in Table 1–3.

Table 1–3 Values for Lock Parameters

Parameter	Value
LOCKIDTBL_MAX	This quota must be at least as high as the highest ENQLM setting in the system authorization file (SYSUAF.DAT). A larger LOCKIDTBL_MAX is recommended to allow several processes to use CDD/Plus simultaneously.
RESHASHTBL	In general, there should be one resource hash table entry for every four locks in the system. Set the resource hash table parameter equal to the value of LOCKIDTBL_MAX divided by four.

For a complete description of the MONITOR Utility, see the *VMS Monitor Utility Manual*. For more tuning information, see the *Guide to VMS Performance Management*.

1.6.3 Process Account Quotas

The account you use to install DECdesign must have sufficient quotas to enable you to perform the installation. Table 1–4 summarizes the process quotas required for the installation account.

Table 1–4 Process Account Quotas for the Installing Account

Account Quota	Value
ASTLM	24
BIOLM	80
BYTLM	30,000
DIOLM	40

(continued on next page)

Table 1–4 (Cont.) Process Account Quotas for the Installing Account

Account Quota	Value
ENQLM	2000
FILLM	60
PGFLQUO	40,000
PRCLM	10
WSDEF	256

User account quotas are stored in the file SYSUAF.DAT. Use the VMS Authorize Utility (AUTHORIZE) to verify and change user account quotas. First set your directory to SYS$SYSTEM and then run AUTHORIZE:

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

At the UAF> prompt, enter the SHOW command with an account name to check a particular account. For example:

```
UAF>  SHOW SMITH
```

To change a quota, enter the MODIFY command. The following example changes the FILLM quota for the SMITH account and then exits from the utility:

```
UAF>  MODIFY SMITH /FILLM=50
UAF>  EXIT
```

After you exit from the utility, the system displays messages indicating whether or not changes were made. Once the changes have been made, you must log out and log in again for the new quotas to take effect.

For more information on modifying account quotas, see the description of the Authorize Utility in the VMS System Management Subkit.

1.6.4 VMSINSTAL Requirements

When you invoke VMSINSTAL, it checks the following:

- Whether you are logged in to a privileged account
- Whether you have adequate quotas for installation
- Whether DECnet is running
- Whether any 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 to continue. To stop the installation process and correct the situation, enter NO or press Return. Then correct the problem and restart the installation.

1.6.5 Backing Up Your System Disk

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

Use the backup procedures that are established at your site. For details on performing a system disk backup, see the section on the Backup Utility in the VMS System Management Subkit.

2
Installing DECdesign

This chapter explains how to install DECdesign. Section 2.1 contains a step-by-step description of the installation procedure.

2.1 The Installation Procedure

The DECdesign installation procedure consists of a series of questions and informational messages. See Appendix A for a sample installation.

To abort the installation procedure at any time, press Ctrl/Y.

1. **Invoke VMSINSTAL.**

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

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

   saveset-name
   The installation name for the component. For DECdesign, use the following installation name:

   ```
   DES011
   ```

   device-name
   The name of the device on which you plan to mount the media. For example, MUA0: is the device name for a tape drive. It is not necessary to use the console drive for this installation. However, if you do use the console drive, you should replace any media you removed once the installation is complete.

   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 in case they contain additional information about 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 VMSINSTALL questions and prompts. You can then use the option (and the answer file) to save time during a reinstallation (typically after upgrading your system).

- 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.

See the VMS documentation on software installation in the VMS System Management Subkit for detailed information on these options. If you specify more than one option, separate the options with commas (OPTIONS A,N).

The following example invokes VMSINSTAL to install DECdesign from tape drive MUA0: and shows the system response. This example uses the OPTIONS N release note parameter.

```
$  @SYS$UPDATE:VMSINSTAL DES011 MUA0: OPTIONS N

      VAX/VMS Software Product Installation Procedure DECdesign V1.1


It is 18-APR-1991 at 03:00.
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. VMSINSTAL does not prompt you for any options, so be sure to include OPTIONS N on the VMSINSTAL command line to access the release notes during the installation.

2. **Confirm system backup.**

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

VMSINSTAL asks if you are satisfied with your system backup. You should always 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.

3. **Mount the media.**

```
Please mount the first volume of the set on MUA0:.
* Are you ready?  YES
%MOUNT-I-MOUNTED, DECdesign MOUNTED ON _$$MUA0: (NODE 1)
The following products will be processed:
  DECdesign V1.1

    Beginning installation of DECdesign V1.1 at 03:00

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

You should now mount the first 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 DECdesign 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.

4. **Mount additional media volumes.**

```
%BACKUP-I-READYREAD, mount volume 2 on _MUA0: for reading

Enter "YES" when ready:
```

If your installation kit contains more than one volume, VMSINSTAL prompts you to mount the additional volumes and then asks you to indicate that you are ready for the installation to proceed.

5. **Select a release notes option.**

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

Additional Release Notes Options:

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

* Select option [2]:
```

If you specified OPTIONS N when you invoked VMSINSTAL, you are now asked to choose one of the four options for reviewing the release notes.

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 that you want to use:

```
* 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:DES011.RELEASE_NOTES
```

After the installation, you can enter the following command to review the release notes through the Help facility:

```
$  HELP DECDESIGN RELEASE_NOTES
```

Note

The name of the release notes file installed by VMSINSTAL consists of the current product name and version number. Do not delete release

notes for previous versions of DECdesign.

---

6. **License Registration.**

```
Product:       DECDESIGN
Producer:      DEC
Version:       1.1
Release Date:  11-JUN-1991

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

The installation procedure displays an important message about converting your existing V1.0 libraries, license information about your product, and then a question about registering and loading your authorization key for a DECdesign.

If you have not registered and loaded your PAK, you must answer NO to this question. (The server does not require a PAK.) You have to register and load your PAK to successfully complete the installation. If you have not done so, you should stop the installation, register and load your PAK, and then restart the installation.

7. **Server Only.**

```
* Do you want only the DECdesign Server installed [NO]?  NO
```

If you do not have an authorization key registered and loaded, the installation procedure asks if you want to install only the DECdesign server. If all your users will use the server to access DECdesign libraries, and there will be no local access, you may wish to install *only* the server.

DECdesign does not perform a complete installation of the server. You must perform additional operations after the installation. For information, see Section 3.3.

8. **Client-only Installation.**

```
* Do you wish a CLIENT-ONLY, NO LOCAL ACCESS installation [NO]?
```

The installation procedure now asks whether you want to install a client-only image. This image is for a workstation environment where you wish to run DECdesign on remote libraries; you will not have local libraries. This option requires the least amount of resources (a local copy of CDD/Plus is not required), but does require that some other node or cluster has a DECdesign server installed that you will have access to.

9. **DECdesign Server.**

```
* Do you want the DECdesign Server installed [NO]?  YES
```

The installation procedure now asks if you want to install the DECdesign server. If you plan to allow users from other machines to access DECdesign libraries on the machine where you are now installing DECdesign, enter YES. If you plan to use DECdesign only on the machine where you are installing it, enter NO.

DECdesign does not perform a complete installation of the server. You must perform additional operations after the installation. For information, see Section 3.3.

10. **Support Files.**

```
  The DES$PREDEFINED directory location is currently defined as:
                                        SYS$COMMON:[SYSLIB.DESLIB].
* Is this where you'd like it to be placed [YES]?  YES
```

The installation procedure now asks where you want to store support files and template libraries. The logical name for the storage directory is DES$PREDEFINED.

The directory and its contents may be placed in SYS$LIBRARY or on a disk and directory of your choice. The directory should be on a disk that is always mounted, and the protection for the directory must by World:RE. You *must* pick a directory that can be used by DECdesign exclusively; that is, a directory that is currently empty, or does not yet exist. (If the DES$PREDEFINED directory is not empty, the installation procedure asks for permission to supersede the existing files.)

11. **Defining DES$PREDEFINED.**

If you answered NO to the previous question, the installation procedure now asks you to define a device and directory for DES$PREDEFINED. If the directory you specify does not exist, the procedure creates it for you.

If the DES$PREDEFINED directory is not empty, the installation procedure asks for permission to purge the existing files.

```
* DES$PREDEFINED is non-empty, supersede existing files [YES]?
```

12. **Template Libraries.**

```
* Do you want to install YOURDON [YES]?  YES
* Do you want to install GANE&SARSON [YES]?  YES
* Do you want to install MERISE [YES]?  YES
```

The installation procedure now asks to install template libraries for Yourdon, Gane & Sarson, and Merise libraries. You must choose at least one of the templates.

If you have the CDD Repository V5.0 or later installed on your system, the installation procedure displays an informational message at the end of Step 13 indicating that the template libraries on this kit are incompatible with CDD. Your CDD Repository V5.0 kit contains savesets with the correct template libraries for DECdesign. After the successful installation of DECdesign, invoke the upgrade. (For more information, see Chapter 3.)

13. **Online Training.**

```
* Do you want the training for Yourdon installed [YES]?  YES
* Do you want the training for Gane & Sarson installed [YES]?  YES
```

The installation procedure now asks you to install the DECdesign online training package. Each training package requires an additional 9000 blocks of disk space on the system disk. The packages include two Bookreader format files and a series of examples, all of which will be placed in SYS$EXAMPLES. A description of how to use the on-line training package is supplied in Section 3.4. (You must have the DECwindows Bookreader installed on your system to use the training package.)

14. **Purge files.**

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

You have the option to purge files from previous versions of DECdesign that are superseded by this installation. Purging is recommended; however, if you need to keep files from the previous version, enter NO in response to the question.

Note

If you define DES$PREDEFINED to be the same location for V1.1 as it was for V1.0, all files in that location will be superseded.

15. **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 (unless you are installing a client-only version of DECdesign with no local access). The IVP for DECdesign checks to be sure that the installation is successful. It is recommended that you run the IVP.

After DECdesign is installed, you can run the IVP independently to verify that the software is available on your system. You should always run the IVP after installing new versions of Rdb/VMS or CDD/Plus. You might need to run the IVP after a system failure to make sure that users can access DECdesign. To do this, follow the instructions in the following informational messages.

16. **Read informational messages.**

    At this point, the installation procedure displays a number of informational messages that report on the progress of the installation. There are no further questions. If the installation procedure has been successful up to this point, VMSINSTAL moves the new or modified files to their target directories, updates help files, and updates DCL tables, if necessary. If you chose to have files purged, that work is done now. The following messages are displayed:

```
%VMSINSTAL-I-MOVEFILES, files will now be moved to their target
                                directories...
The DECdesign IVP can be found in the SYS$COMMON:[SYSTEST.DECDESIGN]
                                directory.




To run it, enter the command @SYS$COMMON:[SYSTEST.DECDESIGN]DES$IVP
```

17. **Observe the Installation Verification Procedure (IVP).**

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

```
************************************************************

DECdesign IVP

Verify that the DECdesign library can be accessed without excessive
                                privileges.

************************************************************

    Display the internal environment:
Welcome to CDO V1.2
The CDD/Plus V4.3 User Interface
Type HELP for help
 Directory SYS$COMMON:[SYSLIB.DESLIB.YOURDON]DES$ENVIRONMENT

DEFAULT_LIBRARY;1                               DES$$UID
DEFAULT_LIBRARY_STRINGS;1                       DES$$UID
MDF;1                                           DES$$MDF
************************************************************

See if the internal environment is what we expected:

%DES-S-ENVIRONMENT_OK, Internal environment appears consistent
```

18. **End the installation procedure.**

```
   Installation of DECdesign V1.1 completed at 03:48

   VMSINSTAL procedure done at 03:48
```

The previous messages indicate that the entire installation procedure is complete.

You can now log out of the privileged account:

```
$  LOGOUT
SYSTEM     logged out at 18-APR-1991 03:48
```

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.

2.2 Error Recovery

If errors occur during the installation itself 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 DECdesign V1.1 has failed.
```

If the IVP fails, you see these messages:

```
The DECdesign V1.1 Installation Verification Procedure failed.

%VMSINSTAL-E-IVPFAIL, The IVP for DECdesign V1.1 has failed.
```

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

- The operating system version is incorrect.
- A prerequisite software version is incorrect.
- A new version of Rdb/VMS or CDD/Plus has been installed and you have not performed a needed conversion. (For more information, see Chapter 3.)
- 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 VMS documentation on system messages, recovery procedures, and VMS 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.

3
After Installing DECdesign

After installing DECdesign, you need to perform the following tasks:

- Edit the system startup files.
- Complete the server installation (if you installed the server).
- Complete the online training installation (if you installed the training).
- Set user account quotas.
- Tune your system.

If you install new versions of CDD/Plus or Rdb/VMS at any time after installing DECdesign on your system, you may have to convert your DECdesign libraries to make them compatible. (The libraries that must be converted include libraries created by users on your system and the methodology template libraries stored in DES$PREDEFINED.) The CDD/Plus and Rdb/VMS installation guides will tell you if the conversion of databases is required. The DCL commands for converting a library are:

```
$  RMU/CONVERT [dirspec]
$  DICTIONARY OPERATOR CONVERT/DICTIONARY [dirspec]
```

If you plan to install CDD Repository V5.0 or higher after installing DECdesign, the methodology template libraries provided in the DECdesign V1.1 kit will not work.

Important

Before you upgrade to a new version of CDD/Plus, you need to extract user design libraries using DECdesign. (See the *Guide to DECdesign* for more information on extracting libraries.)

After installing CDD Repository V5.0, you must invoke an upgrade routine that provides methodology template libraries compatible with CDD Repository V5.0 or higher. This upgrade, containing only the template libraries, is included on the media with CDD Repository kits for V5.0 or higher. There are four savesets: DESCDD.A, DESCDD.B, DESCDD.C, DESCDD.D. Before invoking the upgrade, please read the release notes included in saveset A.

After completing the upgrade, use DECdesign to load the extract files for user design libraries.

3.1 Editing the System Files

You must edit the system startup and shutdown files to provide for automatic startup and shutdown of DECdesign when your system is rebooted.

Add the command line that starts DECdesign to the system startup file, SYS$MANAGER:SYSTARTUP_V5.COM. DECdesign cannot start until after the network has started. You must position this new command line *after* the line that invokes the network startup command procedure. The following example shows the network startup command line followed by the DECdesign startup command line:

```
$  @SYS$MANAGER:STARTNET.COM
      .
      .
      .
$  @SYS$STARTUP:DES$STARTUP.COM
```

3.2 Modifying System Parameters

Do not lower the system parameters below the values stated in Table 1–2, Section 1.6.2.

3.3 Completing Installation of the Server

If you installed the DECdesign server, there are several additional steps needed to actually use the server. You will need to use a privileged account such as SYSTEM.

During installation, DECdesign defines the server as a network object. Use the following command to display the definition of the network object:

```
$  MCR NCP LIST OBJECT DES$SERVER

Object Permanent Summary as of dd-mmm-yyyy hh:mm:ss

Object = DES$SERVER

Number                  = 67
File id                 = DES$SERVER.EXE
User id                 = DES$SERVER
Account                 = DES$SERVER
Password                = <your-password>
```

In the preceding example, <your-password> should be the same as the password you supplied during the installation of DECdesign.

Next, use the following command to ensure that the temporary definition of the network object is consistent with the permanent definition.

```
$  MCR NCP SET OBJECT DES$SERVER ALL
```

Finally, you need to make a policy decision on the use of the server. Do you want to use a network proxy account, or do you want to define an account for the DECdesign server?

With a network proxy account, a proxy needs to be defined for each client (a NODE::USERNAME) that will use the DECdesign server on a specific node. With this approach, the server will run on the local account defined for the network proxy. If your users will be creating links between DECdesign and CDD/Plus public dictionaries that are protected from general access, then the users will require proxy accounts to access those public dictionaries. For more information on network proxy accounts, see the *Guide to Setting Up a VMS System*.

With a defined account for the DECdesign server, users who run the server will run it in the context of the server account (des$server). This approach is easier to set up and manage, but it is also less secure than using network proxy accounts because all server users appear to VMS with the same username.

One implication of using the server account is that any server user on any node can access any DECdesign library that is accessible with the DECdesign server. If this is undesirable, you have the following alternatives:

- Use the user registry facility inside DECdesign for each DECdesign library. (The user registry can detect the original username of the account requesting access through the server account.)
- Use network proxy accounts and not install the server account on your system.

You can use both the server account and network proxy accounts on the same system; users that have a proxy will run the server in their proxy account, and users without a proxy will run the server in the server account.

To set up the server account, run the SYS$MANAGER:DES$CREATE_SERVER_ACCOUNT.COM command procedure. The procedure prompts you for the UIC and password for the server account. You should specify the same password you specified during the installation (the password listed in the preceding NCP LIST OBJECT command).

The procedure also creates or modifies the DES$SERVER account to have appropriate access and quotas and creates the SYS$COMMON:[DES$SERVER] directory where network logs of server activity are placed. For additional network security, the procedure specifies SYS$MANAGER:DES$SERVER_LOGIN.COM as the login.com for the account. For more information about the server account, see the comments at the start of the DES$CREATE_SERVER_ACCOUNT.COM file.

Here are a few typical problems your users may have accessing the server:

- Login Information Invalid at Remote Node—Indicates that the account is not accessible to the user who is attempting access.
- Network Partner Exited—Indicates that the account is defined correctly, but there is an error during the execution of the image.
- Network Object Unknown at Remote Node—Indicates that the DECdesign server was not installed on the system or that it was removed after the installation.

If these errors occur, you can get additional information in the file NETSERVER.LOG, which is created in the root directory of the account that the user tried to access.

3.4 Completing Installation of the Online Training

If you installed the online training during the installation procedure, you need to enter some commands to prepare the Bookreader environment for your users.

First, determine whether you have an existing DECdesign bookshelf on your system.

```
$ DIRECTORY SYS$COMMON:[DECW$BOOK]DECDESIGN.DECW$BOOKSHELF
```

If the DECdesign bookshelf does not exist, create it as follows:

- Create an empty file with the same location and name shown in the preceding directory command.

- Edit your SYS$COMMON:[DECW$BOOK]LIBRARY.DECW$BOOKSHELF file and add the following line:

  ```
  SHELF\DECDESIGN\DECdesign Documentation Shelf
  ```

  The LIBRARY.DECW$BOOKSHELF file specifies the books and bookshelves that are listed when you start the Bookreader. (You can create this file if it does not already exist.)

Next, perform the following commands (the append commands are only necessary the first time you install the online training):

```
$  ! The next commands are for the Yourdon training.
$   Append -
_$  DES$Y_EX:DES$Y_OLT_PROFILE.DECW$BOOKSHELF -
_$  SYS$COMMON:[DECW$BOOK]DECDESIGN.DECW$BOOKSHELF
$   Rename DES$Y_EX:DES$Y_OLT_PROFILE.-
_$  DECW$BOOK SYS$COMMON:[DECW$BOOK]*
$  !
$  ! The next commands are for the Gane & Sarson training.
$   Append -
_$  DES$GS_EX:DES$GS_OLT_PROFILE.DECW$BOOKSHELF -
_$  SYS$COMMON:[DECW$BOOK]DECDESIGN.DECW$BOOKSHELF
$   Rename DES$GS_EX:DES$GS_OLT_PROFILE.-
_$  DECW$BOOK SYS$COMMON:[DECW$BOOK]*
```

The final step to complete the installation of the training applies only if you had previously installed DECdesign V1.0 training. If this is the case, then remove references to the V1.0 training file in the following file:

```
SYS$COMMON:[DECW$BOOK]LIBRARY.DECW$BOOKSHELF
```

To remove the references, search the file for the title (*Using DECdesign*) of the V1.0 training and delete any line wherever the title appears.

The training is now fully installed. The training users will need to perform some tasks individually:

- Before invoking the Bookreader to use the online training, they must define the following logical name on their system:

  ```
  $  Define DECW$BOOK SYS$COMMON:[DECW$BOOK]
  ```

- When the users include or load examples during the online training, they must precede the example filenames with the appropriate logical name: DES$Y_EX for Yourdon and DES$GS_EX for Gane & Sarson.

- The users will need a small number of DDIF example files during the online training sessions. They must copy these files into their SYS$LOGIN

directory and convert them. (The training describes how to convert the files.) The files are located in the following directories:

- DES$Y_EX:*.DDIF !Yourdon files
- DES$GS_EX:*.DDIF !Gane & Sarson files

3.5 VAXcluster Considerations

If you install DECdesign on a machine that is part of a VAXcluster and want to run the DECdesign image on other nodes in the cluster, then do the following on each of the other nodes:

1. Load the appropriate DECdesign PAKs (one for the base tool and one for each methodology you have installed) as well as the PAKs for any supporting products you have installed (for example, Rdb/VMS and CDD/Plus).
2. Run the CDD/Plus startup procedure, SYS$STARTUP:CDDSTRTUP.COM.
3. Run the DECdesign startup procedure, SYS$STARTUP:DES$STARTUP.COM.

3.6 User Account Requirements

To work with DECdesign, user accounts on your system must have certain privileges and quotas. The next two sections contain information on these requirements.

3.6.1 Privileges

To use DECdesign, each account must have at least the TMPMBX and NETMBX privileges. Use the VMS Authorize Utility to determine whether users have the privileges they require.

3.6.2 User Account Quotas

You must make sure that the appropriate user accounts have sufficient quotas to be able to use DECdesign. Table 3–1 summarizes the required user account quotas.

Table 3–1 User Account Quotas for Using DECdesign

Account Quota	Value
ASTLM	24
BIOLM	80
BYTLM	30,000
DIOLM	40
ENQLM	2,000
FILLM	100
PGFLQUO	80,000
PRCLM	1
WSEXTENT	(see Section 3.7)

See Section 1.6.3 for a description of how to verify and change account quotas.

3.7 Tailoring Your System

This section describes ways to tune your system to improve DECdesign performance. One of the best is to use VMS AUTOGEN after DECdesign has been running for several days. AUTOGEN does an excellent job of selecting the appropriate values for items that affect DECdesign performance.

The following list describes the major items that affect performance:

- The WSMAX SYSGEN parameter—Use AUTOGEN to set the value for WSMAX. (If you have a WSMAX definition in your MODPARAMS.DAT file, remove it and run AUTOGEN.) If AUTOGEN decides a WSMAX value is less than 5000 to 6000 pages, you probably do not have enough physical memory to run DECdesign with good performance. For a 16 megabyte workstation, the WSMAX will typically be in the 8000 to 10,000 range or higher.

  If you thoroughly understand WSMAX and its interactions with other SYSGEN parameters, you may want to set it manually by placing a definition in your MODPARAMS.DAT file. The setting should never be less than the value that AUTOGEN would have supplied.

  The best technique for setting WSMAX manually is to specify MIN_ WSMAX. This lets AUTOGEN set a maximum value for WSMAX while you set a minimum value. (If you specify a MIN_WSMAX value higher than AUTOGEN determines is reasonable, you get a warning from AUTOGEN.)

- The WSEXTENT process quota—Set this value as high as possible. Generally, it is not useful to set the WSEXTENT value higher than WSMAX. However, it may be useful in a clustered environment where different nodes of the cluster have different WSMAX values. In this case, make WSEXTENT equal to or greater than the largest value of WSMAX on the nodes where DECdesign will be run.
- The WSDEF process quota—This value is typically set in the 1000-2000 range. (It cannot be set to a higher value than WSQUOTA.)
- The WSQUOTA process quota—Set this value to the 4000-6000 range. This quota indicates the number of pages available even when system-wide memory requirements are high. The difference between WSQUOTA and WSEXTENT (WSEXTENT being larger) is the additional memory you may be allocated when there is available memory.
- The PGFLQUO process quota—Set this value to 60 or 70 thousand blocks. If VMS broadcasts a message that it is approaching its page file limit, you should increase the size of the page file immediately. For information on changing the size of the page file, see the *Guide to Setting Up a VMS System*.
- The Virtual Page Count—Set this value to a minimum of 75,000 pages.
- The View_cache_max variable in DES$DW_DEFAULTS.DAT—This value can be set by individual DECdesign users in their own environments. (The file is created in DECW$USER_DEFAULTS; the default value is 50.) A higher value speeds performance but requires more memory. A lower value slows performance, but avoids memory overflow problems.

For example, possible values for a 16 megabyte VS3100 are as follows:

- WSMAX = 10000-12000
- WSDEF = 1000-2000
- WSQUOTA = 3000-6000
- WSEXTENT = 10000-12000

If there is no extra memory available to allow usage to exceed WSQUOTA, then performance is likely to be poor. In actual use, DECdesign needs a minimum of 7000 to 8000 pages to run effectively. The primary goal of making WSQUOTA relatively low is to allow VMS to better make tradeoff decisions about the use of memory, especially if WSEXTENT is considerably higher than WSQUOTA.

3.8 Determining and Reporting Problems

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

- Call Digital if your software contract or warranty agreement entitles you to telephone support.
- Submit a Software Performance Report (SPR).
- Fill out and submit a Reader's Comments form if the problem has to do with the DECdesign documentation. There are Reader's Comments forms at the back of each manual. Use the form from the manual in which you found the error. Include the section and page number.

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

A

Sample Installation

This appendix contains a sample installation of DECdesign. This sample was run on a system that had no previous version of DECdesign installed.

The sample installation assumes that DECnet has been shut down, that no users are logged on to your system, and that OPTIONS N is specified to print the release notes. The Installation Verification Procedure (IVP) runs at the end of the installation.

```
$ @sys$update:vmsinstal des011 adt$:[adt.adt_kits.v1-1]
 VAX/VMS Software Product Installation Procedure V5.4-1A

It is 18-APR-1991 at 03:00.
Enter a question mark (?) at any time for help.

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

The following products will be processed:
  DES V1.1
 Beginning installation of DES V1.1 at 03:00

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

 IMPORTANT:

 This installation requires that you extract your designs and convert
 the extract files before loading them into V1.1 libraries.
 Please reference the Release Notes for further details.
 If you have not extracted your existing libraries please exit and
 use the V1.0 image to do so; failure to extract your existing designs
 will leave them unaccessible.

 A Server-Only installation of DECdesign does not require a DECdesign
 license to be registered and loaded.

        Product:      DECDESIGN
        Producer:     DEC
        Version:      1.1
        Release Date: 11-JUN-1991
* Does this product have an authorization key registered and loaded? y
```

```
    IMPORTANT:  DECdesign may be OPTIONALLY installed as a CLIENT-ONLY image.
    A CLIENT-ONLY image is for a workstation environment where you wish to
    run DECdesign ONLY on remote libraries and you will NOT have a local
    copy of CDD/Plus installed and there will be NO locally accessible
    DECdesign libraries. This installation option requires the least amount
    of resources, but is the most restrictive in that it ALWAYS requires
    that some other node or cluster has a DECdesign server installed that
    you will have access to.

* Do you wish a CLIENT-ONLY, NO LOCAL ACCESS installation [NO]?

    The DECdesign server allows access to libraries on this node or cluster
    using the DECdesign remote access protocol. The server is not necessary
    unless there are users on remote nodes accessing libraries on this node or
    cluster.

* Do you want the DECdesign Server installed [NO]? y

    The DES$PREDEFINED directory is where support files and template
    libraries are kept.  This directory and its contents may be placed
    in SYS$LIBRARY or may be placed in a disk and directory of your
    choice.

    In all cases, the directory should be on a disk that is always mounted
    and accessible to all users of DECdesign.  You MUST also pick a directory
    that can be used by DECdesign exclusively; the directory may be empty,
    or not yet exist. If the directory is not empty due to a previous
    DECdesign installation, you may choose to supersede duplicate files.
    If you not wish to supersede existing files you MUST specify an
    alternate DES$PREDEFINED directory.

    The DES$PREDEFINED directory location is currently defined as:
    SYS$COMMON:[SYSLIB.DESLIB].

* Is this where you'd like it to be placed [YES]?

 DES$PREDEFINED disk is mounted and available


    The proposed DES$PREDEFINED directory is not empty.
    This update requires that files of previous versions be purged
    or that DES$PREDEFINED be empty.

* DES$PREDEFINED is non-empty, supersede existing files [YES]?

    Template libraries are available for the following types of libraries:

 YOURDON
 GANE & SARSON
 MERISE

    Please choose one or more library types that you would like installed.
    In order to access the library you must have a library license loaded
    and enabled.
```

```
* Do you want to install YOURDON [YES]?
* Do you want to install GANE&SARSON [YES]?
* Do you want to install MERISE [YES]?

    A DECdesign YOURDON online training package is available.
    This package requires an additional 9000 blocks of disk space on the
    system disk. The package includes two Bookreader format files and
    a series of examples, all of which will be placed in SYS$EXAMPLES.

* Do you want the training for Yourdon installed [YES]?

    A description of how to use the online training package is supplied
    in the DECdesign Installation Guide.


    A DECdesign GANE & SARSON online training package is available.
    This package requires an additional 9000 blocks of disk space on the
    system disk. The package includes two Bookreader format files and
    a series of examples, all of which will be placed in SYS$EXAMPLES.

* Do you want the training for Gane & Sarson installed [YES]?

    A description of how to use the online training package is supplied
    in the DECdesign Installation Guide.


    Checking CDD/Plus version requirements...


    Checking installation requirements...

* Do you want to purge files replaced by this installation [YES]?
* Do you want to run the IVP after the installation [YES]?
%DES-I-DONEASK, No more questions will be asked
%VMSINSTAL-I-RESTORE, Restoring product save set B ...
%VMSINSTAL-I-SYSDIR, This product creates system disk directory
                                  VMI$COMMON:[SYSTEST.DECDESIGN].
%CREATE-I-EXISTS, VMI$COMMON:[SYSTEST.DECDESIGN] already exists
%VMSINSTAL-I-SYSDIR, This product creates system disk directory
                                  SYS$COMMON:[SYSLIB.DESLIB].
%CREATE-I-EXISTS, SYS$COMMON:[SYSLIB.DESLIB] already exists
%VMSINSTAL-I-RESTORE, Restoring product save set C ...
%VMSINSTAL-I-SYSDIR, This product creates system disk directory
                                  SYS$COMMON:[SYSLIB.DESLIB.DES$YOURDON].
Exported by Rdb/VMS V4.0-0 Export/Import utility
A component of Rdb/VMS V4.0-0
Previous name was KIT_DIR_C:CDD$DATABASE
It was logically exported on 11-FEB-1991 15:06:39.06
Database page size is 8 blocks
Database NUMBER OF USERS is 200
Database NUMBER OF VAXCLUSTER NODES is 16
Database NUMBER OF DBR BUFFERS is 20
Database SNAPSHOT is ENABLED
Database SNAPSHOT is IMMEDIATE
Database BUFFER SIZE is 24 blocks
Database NUMBER OF BUFFERS is 30
```

Sample Installation

```
IMPORTing STORAGE AREA: RDB$SYSTEM
IMPORTing relation CDD$$O_OBJECT_TYPE
IMPORTing relation CDD$$O_ATTRIBUTE_TYPE
IMPORTing relation CDD$$O_LINK_TYPE
IMPORTing relation CDD$$O_ANCHOR
IMPORTing relation CDD$$O_HISTORY
IMPORTing relation CDD$$O_HAS_ATTRIBUTE
IMPORTing relation CDD$$O_OWNS_RELATIONSHIP
IMPORTing relation CDD$$O_RELATIONSHIP_MEMBER
IMPORTing relation CDD$$O_HAS_LINK
IMPORTing relation CDD$$O_MESSAGE
IMPORTing relation CDD$$O_HISTORY_LIST
IMPORTing relation CDD$$O_VALIDATION
IMPORTing relation CDD$$O_OBJECT_VALIDATION
IMPORTing relation CDD$$O_ATT_VALIDATION
IMPORTing relation CDD$$O_CONTAINS_COPY
IMPORTing relation CDD$$O_DIRECTORY
IMPORTing relation CDD$$O_RECFLD
IMPORTing relation CDD$$O_RECFLD_REL
IMPORTing relation CDD$$O_RECFLD_REL_O
IMPORTing relation CDD$$O_RECFLD_REL_S
IMPORTing relation CDD$$O_RECFLD_REL_D
IMPORTing relation CDD$$O_DATABASE
IMPORTing relation CDD$$O_DATABASE_REL
IMPORTing relation CDD$$O_DBM_ID_REL
IMPORTing relation CDD$$O_DBM_REL
IMPORTing relation CDD$$O_FILE
IMPORTing relation CDD$$O_FILE_REL_I
IMPORTing relation CDD$$O_FILE_REL_A
IMPORTing relation CDD$$O_FILE_REL_S
IMPORTing relation CDD$$O_PROGRAM
IMPORTing relation CDD$$O_PROGRAM_REL
IMPORTing relation CDD$$O_4GL
IMPORTing relation CDD$$O_4GL_REL
IMPORTing relation CDD$$O_ACMS_ENT
IMPORTing relation CDD$$O_ACMS_REL
IMPORTing relation CDD$PROTOCOLS
Welcome to CDO V1.3-2
The CDD/Plus V4.3-2 User Interface
Type HELP for help
%VMSINSTAL-I-RESTORE, Restoring product save set D ...
%VMSINSTAL-I-SYSDIR, This product creates system disk directory
                                  SYS$COMMON:[SYSLIB.DESLIB.DES$GANE_SARSON].
Exported by Rdb/VMS V4.0-0 Export/Import utility
A component of Rdb/VMS V4.0-0
Previous name was KIT_DIR_D:CDD$DATABASE
It was logically exported on 11-FEB-1991 15:09:53.89
Database page size is 8 blocks
Database NUMBER OF USERS is 200
Database NUMBER OF VAXCLUSTER NODES is 16
Database NUMBER OF DBR BUFFERS is 20
Database SNAPSHOT is ENABLED
```

```
Database SNAPSHOT is IMMEDIATE
Database BUFFER SIZE is 24 blocks
Database NUMBER OF BUFFERS is 30
IMPORTing STORAGE AREA: RDB$SYSTEM
IMPORTing relation CDD$$O_OBJECT_TYPE
IMPORTing relation CDD$$O_ATTRIBUTE_TYPE
IMPORTing relation CDD$$O_LINK_TYPE
IMPORTing relation CDD$$O_ANCHOR
IMPORTing relation CDD$$O_HISTORY
IMPORTing relation CDD$$O_HAS_ATTRIBUTE
IMPORTing relation CDD$$O_OWNS_RELATIONSHIP
IMPORTing relation CDD$$O_RELATIONSHIP_MEMBER
IMPORTing relation CDD$$O_HAS_LINK
IMPORTing relation CDD$$O_MESSAGE
IMPORTing relation CDD$$O_HISTORY_LIST
IMPORTing relation CDD$$O_VALIDATION
IMPORTing relation CDD$$O_OBJECT_VALIDATION
IMPORTing relation CDD$$O_ATT_VALIDATION
IMPORTing relation CDD$$O_CONTAINS_COPY
IMPORTing relation CDD$$O_DIRECTORY
IMPORTing relation CDD$$O_RECFLD
IMPORTing relation CDD$$O_RECFLD_REL
IMPORTing relation CDD$$O_RECFLD_REL_O
IMPORTing relation CDD$$O_RECFLD_REL_S
IMPORTing relation CDD$$O_RECFLD_REL_D
IMPORTing relation CDD$$O_DATABASE
IMPORTing relation CDD$$O_DATABASE_REL
IMPORTing relation CDD$$O_DBM_ID_REL
IMPORTing relation CDD$$O_DBM_REL
IMPORTing relation CDD$$O_FILE
IMPORTing relation CDD$$O_FILE_REL_I
IMPORTing relation CDD$$O_FILE_REL_A
IMPORTing relation CDD$$O_FILE_REL_S
IMPORTing relation CDD$$O_PROGRAM
IMPORTing relation CDD$$O_PROGRAM_REL
IMPORTing relation CDD$$O_4GL
IMPORTing relation CDD$$O_4GL_REL
IMPORTing relation CDD$$O_ACMS_ENT
IMPORTing relation CDD$$O_ACMS_REL
IMPORTing relation CDD$PROTOCOLS
Welcome to CDO V1.3-2
The CDD/Plus V4.3-2 User Interface
Type HELP for help
%VMSINSTAL-I-RESTORE, Restoring product save set E ...
%VMSINSTAL-I-SYSDIR, This product creates system disk directory
                                  SYS$COMMON:[SYSLIB.DESLIB.DES$MERISE].
Exported by Rdb/VMS V4.0-0 Export/Import utility
A component of Rdb/VMS V4.0-0
Previous name was KIT_DIR_E:CDD$DATABASE
It was logically exported on 11-FEB-1991 15:13:30.17
Database page size is 8 blocks
Database NUMBER OF USERS is 200
```

Sample Installation

```
Database NUMBER OF VAXCLUSTER NODES is 16
Database NUMBER OF DBR BUFFERS is 20
Database SNAPSHOT is ENABLED
Database SNAPSHOT is IMMEDIATE
Database BUFFER SIZE is 24 blocks
Database NUMBER OF BUFFERS is 30
IMPORTing STORAGE AREA: RDB$SYSTEM
IMPORTing relation CDD$$O_OBJECT_TYPE
IMPORTing relation CDD$$O_ATTRIBUTE_TYPE
IMPORTing relation CDD$$O_LINK_TYPE
IMPORTing relation CDD$$O_ANCHOR
IMPORTing relation CDD$$O_HISTORY
IMPORTing relation CDD$$O_HAS_ATTRIBUTE
IMPORTing relation CDD$$O_OWNS_RELATIONSHIP
IMPORTing relation CDD$$O_RELATIONSHIP_MEMBER
IMPORTing relation CDD$$O_HAS_LINK
IMPORTing relation CDD$$O_MESSAGE
IMPORTing relation CDD$$O_HISTORY_LIST
IMPORTing relation CDD$$O_VALIDATION
IMPORTing relation CDD$$O_OBJECT_VALIDATION
IMPORTing relation CDD$$O_ATT_VALIDATION
IMPORTing relation CDD$$O_CONTAINS_COPY
IMPORTing relation CDD$$O_DIRECTORY
IMPORTing relation CDD$$O_RECFLD
IMPORTing relation CDD$$O_RECFLD_REL
IMPORTing relation CDD$$O_RECFLD_REL_O
IMPORTing relation CDD$$O_RECFLD_REL_S
IMPORTing relation CDD$$O_RECFLD_REL_D
IMPORTing relation CDD$$O_DATABASE
IMPORTing relation CDD$$O_DATABASE_REL
IMPORTing relation CDD$$O_DBM_ID_REL
IMPORTing relation CDD$$O_DBM_REL
IMPORTing relation CDD$$O_FILE
IMPORTing relation CDD$$O_FILE_REL_I
IMPORTing relation CDD$$O_FILE_REL_A
IMPORTing relation CDD$$O_FILE_REL_S
IMPORTing relation CDD$$O_PROGRAM
IMPORTing relation CDD$$O_PROGRAM_REL
IMPORTing relation CDD$$O_4GL
IMPORTing relation CDD$$O_4GL_REL
IMPORTing relation CDD$$O_ACMS_ENT
IMPORTing relation CDD$$O_ACMS_REL
IMPORTing relation CDD$PROTOCOLS
Welcome to CDO V1.3-2
The CDD/Plus V4.3-2 User Interface
Type HELP for help
%VMSINSTAL-I-RESTORE, Restoring product save set F ...
%VMSINSTAL-I-SYSDIR, This product creates system disk directory
                                VMI$COMMON:[SYSHLP.EXAMPLES.DECDESIGN.YRDN].
%VMSINSTAL-I-RESTORE, Restoring product save set G ...
%VMSINSTAL-I-SYSDIR, This product creates system disk directory
                                VMI$COMMON:[SYSHLP.EXAMPLES.DECDESIGN.GS].
```

```
    ************************************************************

    Object Number:  67
    Object Name:    DES$SERVER

    The above is currently defined with a USER ID different
    than the default User ID for this product.

        Current User ID:  OLT
        Default User ID:  DES$SERVER

    The installation will proceed using the User ID currently
    defined.  If you wish to use the default User ID, just
    follow these steps:

        a) Logging into this node, and
        b) Invoke SYS$MANAGER:DES$NETOBJ_INSERT.COM.

    Do this AFTER the installation is complete.

    ************************************************************

DES$SERVER has been placed in the DECnet object database as number 67.

    ************************************************************

    SYSTEM MANAGER:

    If your DECnet object database is not configured to be in
    the cluster common directory, then you will need to perform
    the following:

    In order to have remote access on another node which shares
    this cluster common root directory, you must insert
    DES$SERVER.EXE into that node's DECnet object database by:

        a) Logging into that node, and
        b) Invoke SYS$MANAGER:DES$NETOBJ_INSERT.COM.

    This command procedure inserts DES$SERVER into the node's
    permanent DECnet object database.  This procedure only needs
    to be executed ONCE per node.

    ************************************************************

    ******************************************
    * Add a call to                          *
    *        SYS$STARTUP:DES$STARTUP.COM     *
    * to the system startup procedure        *
    *       SYS$MANAGER:SYSTARTUP_V5.COM     *
    ******************************************

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

    The DECdesign IVP can be found in the SYS$COMMON:[SYSTEST.DECDESIGN]
                                directory.
    To run it, enter the command @SYS$COMMON:[SYSTEST.DECDESIGN]DES$IVP
```

Sample Installation

```
*******************************************************************************

    DECdesign IVP

    Verify that the DECdesign library can be accessed without excessive
    privileges.

    Note that a temporary file will be written to and deleted from
    the SYS$SCRATCH directory, thus it must be writeable without
    elevated privileges.

*******************************************************************************

    Display the internal environment:

Welcome to CDO V1.3-2
The CDD/Plus V4.3-2 User Interface
Type HELP for help
 Directory SYS$COMMON:[SYSLIB.DESLIB.DES$YOURDON]DES$ENVIRONMENT
DEFAULT_LIBRARY;1                       DES$$UID
DEFAULT_LIBRARY_STRINGS;1               DES$$UID
MDF;1                                   DES$$MDF
*******************************************************************************

    See if the internal environment is what we expected:

%DES-S-ENVIRONMENT_OK, Internal environment appears consistent
 Installation of DES V1.1 completed at 03:48

 VMSINSTAL procedure done at 03:48
$ log
  SYSTEM          logged out at 18-APR-1991 03:48
```

B

Files and Logical Names Installed on Your System

The DECdesign installation procedure installs a number of files on your system and defines some logical names. Section B.1 lists the files installed. Section B.2 lists the logical names that are added to the system logical name table.

B.1 File Names

Table B–1 contains the names of all files created on your system when DECdesign is installed.

Table B–1 Files Installed by DECdesign

Directory	File name
DES$PREDEFINED:[1]	DES$NEW_LIBRARY.COM
DES$PREDEFINED:[1]	DES$GANE_SARSON.DIR
[.DES$GANE_SARSON][2]	00000000.30000000;1
[.DES$GANE_SARSON]	30000000CDD$PROTOCOLS.40000000;1
[.DES$GANE_SARSON]	30000000DES$.80000000;1
[.DES$GANE_SARSON]	30000000DES$ENVIRONMENT.50000000;1
[.DES$GANE_SARSON]	30000000DES$REGISTRY.60000000;1
[.DES$GANE_SARSON]	30000000DES$REPORT_LAYOUT.70000000;1
[.DES$GANE_SARSON]	80000000DICTIONARY.90000000;1
[.DES$GANE_SARSON]	90000000DATA.A0000000;1

[1]The default value of the DES$PREDEFINED logical is SYS$COMMON:[SYSLIB.DESLIB], but you can specify a different location during installation. (If you accept the default, the installation procedure automatically creates SYS$COMMON:[SYSLIB]DESLIB.DIR.)

[2]This directory is a subdirectory in DES$PREDEFINED.

(continued on next page)

Table B–1 (Cont.) Files Installed by DECdesign

Directory	File name
[.DES$GANE_SARSON]	90000000PROCESSES.B0000000;1
[.DES$GANE_SARSON]	CDD$DATABASE.RDB;1
[.DES$GANE_SARSON]	CDD$DATABASE.SNP;1
[.DES$GANE_SARSON]	CDD$DIRECTORY.CDD;1
DES$PREDEFINED:[1]	DES$YOURDON.DIR
[.DES$YOURDON][2]	00000000.30000000;1
[.DES$YOURDON]	30000000CDD$PROTOCOLS.40000000;1
[.DES$YOURDON]	30000000DES$.80000000;1
[.DES$YOURDON]	30000000DES$ENVIRONMENT.50000000;1
[.DES$YOURDON]	30000000DES$REGISTRY.60000000;1
[.DES$YOURDON]	30000000DES$REPORT_LAYOUT.70000000;1
[.DES$YOURDON]	80000000DICTIONARY.90000000;1
[.DES$YOURDON]	90000000DATA.A0000000;1
[.DES$YOURDON]	90000000PROCESSES.B0000000;1
[.DES$YOURDON]	90000000STATES.C0000000;1
[.DES$YOURDON]	CDD$DATABASE.RDB;1
[.DES$YOURDON]	CDD$DATABASE.SNP;1
[.DES$YOURDON]	CDD$DIRECTORY.CDD;1
DES$PREDEFINED:[1]	DES$MERISE.DIR
[.DES$MERISE][2]	00000000.30000000;1
[.DES$MERISE]	01000000RULES.11000000;1
[.DES$MERISE]	30000000CDD$PROTOCOLS.40000000;1
[.DES$MERISE]	30000000DES$.80000000;1
[.DES$MERISE]	30000000DES$ENVIRONMENT.50000000;1
[.DES$MERISE]	30000000DES$REGISTRY.60000000;1
[.DES$MERISE]	30000000DES$REPORT_LAYOUT.70000000;1

[1]The default value of the DES$PREDEFINED logical is SYS$COMMON:[SYSLIB.DESLIB], but you can specify a different location during installation. (If you accept the default, the installation procedure automatically creates SYS$COMMON:[SYSLIB]DESLIB.DIR.)

[2]This directory is a subdirectory in DES$PREDEFINED.

(continued on next page)

Table B–1 (Cont.) Files Installed by DECdesign

Directory	File name
[.DES$MERISE]	80000000CPM.01000000;1
[.DES$MERISE]	80000000DIC.D0000000;1
[.DES$MERISE]	80000000OPM.90000000;1
[.DES$MERISE]	90000000GFU.C0000000;1
[.DES$MERISE]	90000000RULES.B0000000;1
[.DES$MERISE]	90000000TASKS.A0000000;1
[.DES$MERISE]	CDD$DATABASE.RDB;1
[.DES$MERISE]	CDD$DATABASE.SNP;1
[.DES$MERISE]	CDD$DIRECTORY.CDD;1
[.DES$MERISE]	D0000000CDD.F0000000;1
[.DES$MERISE]	D0000000PROPERTY.E0000000;1
[SYS$STARTUP]	DES$STARTUP.COM
[SYSEXE]	DES$DEFINE_RELATIONSHIP.EXE
[SYSEXE]	DES$SERVER.EXE
[SYSEXE]	DES$MAIN.EXE
[SYSHLP]	DES$DEFAULT_HELP.HLB
[SYSHLP]	DES$YOURDON_DEFAULT_HELP.HLB
[SYSHLP]	DES$GANE_SARSON_DEFAULT_HELP.HLB
[SYSHLP]	DES$MERISE_DEFAULT_HELP.HLB
[SYSHLP]	DES011.RELEASE_NOTES
DES$Y_EX[3]	Y_COMPLETE.LOAD
DES$Y_EX	Y_EXERCISE10.LOAD
DES$Y_EX	Y_EXERCISE11.LOAD
DES$Y_EX	Y_EXERCISE12.LOAD
DES$Y_EX	Y_EXERCISE3.LOAD
DES$Y_EX	Y_EXERCISE4-5.LOAD
DES$Y_EX	Y_EXERCISE6.LOAD
DES$Y_EX	Y_EXERCISE7.LOAD

[3]The DES$Y_EX logical name for the directory containing Yourdon online training examples is defined as [SYSHELP.EXAMPLES.DECDESIGN.YRDN]

(continued on next page)

Table B–1 (Cont.) Files Installed by DECdesign

Directory	File name
DES$Y_EX	Y_EXERCISE8-9.LOAD
DES$Y_EX	Y_DDE_ARCHIVE_DATA.TXT
DES$Y_EX	Y_DDE_AUDIT_DATA.TXT
DES$Y_EX	Y_DDE_AUDIT_REPORT.TXT
DES$Y_EX	Y_DDE_AUTH_USERS.TXT
DES$Y_EX	Y_DDE_BENEFITS_DATA.TXT
DES$Y_EX	Y_DDE_DEPS_DATA.TXT
DES$Y_EX	Y_DDE_EDIT_DATA.TXT
DES$Y_EX	Y_DDE_EMPLOYEE_DATA.TXT
DES$Y_EX	Y_DDE_EXT_INSUR_REPORT.TXT
DES$Y_EX	Y_DDE_GOVERNMENT_REPORT.TXT
DES$Y_EX	Y_DDE_INT_INSUR_REPORT.TXT
DES$Y_EX	Y_DDE_PAYROLL_DATA.TXT
DES$Y_EX	Y_DDE_PERSONAL_DATA.TXT
DES$Y_EX	Y_DDE_POSITION_DATA.TXT
DES$Y_EX	Y_DDE_SALARY_DATA.TXT
DES$Y_EX	Y_DDE_VALID_DATA.TXT
DES$Y_EX	Y_CORP_HR.TXT
DES$Y_EX	Y_DD_QUICK_REFERENCE.TXT
DES$Y_EX	Y_EVENT_LIST.TXT
DES$Y_EX	Y_EXAMPLE_FILE_LIST.TXT
DES$Y_EX	Y_GOVT_AGENCY.TXT
DES$Y_EX	Y_INSURANCE.TXT
DES$Y_EX	Y_MANAGERS.TXT
DES$Y_EX	Y_OBJECTIVE.TXT
DES$Y_EX	Y_OLT_EVALUATION_FORM.TXT
DES$Y_EX	Y_PAYROLL.TXT
DES$Y_EX	Y_PROCESS_SPEC.TXT
DES$Y_EX	Y_SITE_HR.TXT

(continued on next page)

Table B–1 (Cont.) Files Installed by DECdesign

Directory	File name
DES$Y_EX	Y_CD.DDIF
DES$Y_EX	Y_DFD0.DDIF
DES$Y_EX	Y_DFD0_FINAL.DDIF
DES$Y_EX	Y_DFD1-1.DDIF
DES$Y_EX	Y_DFD1-1_FINAL.DDIF
DES$Y_EX	Y_DFD1-4.DDIF
DES$Y_EX	Y_EERD.DDIF
DES$Y_EX	Y_SC.DDIF
DES$Y_EX	DES$Y_OLT_PROFILE.DECW$BOOK
DES$Y_EX	DES$Y_OLT_PROFILE.DECW$BOOKSHELF
DES$GS_EX[4]	GS_COMPLETE.LOAD
DES$GS_EX	GS_EXERCISE10.LOAD
DES$GS_EX	GS_EXERCISE11.LOAD
DES$GS_EX	GS_EXERCISE12.LOAD
DES$GS_EX	GS_EXERCISE3.LOAD
DES$GS_EX	GS_EXERCISE4-5.LOAD
DES$GS_EX	GS_EXERCISE6.LOAD
DES$GS_EX	GS_EXERCISE7.LOAD
DES$GS_EX	GS_EXERCISE8-9.LOAD
DES$GS_EX	GS_DDE_ARCHIVE_DATA.TXT
DES$GS_EX	GS_DDE_AUDIT_DATA.TXT
DES$GS_EX	GS_DDE_AUDIT_REPORT.TXT
DES$GS_EX	GS_DDE_AUTH_USERS.TXT
DES$GS_EX	GS_DDE_BENEFITS_DATA.TXT
DES$GS_EX	GS_DDE_DEPS_DATA.TXT
DES$GS_EX	GS_DDE_EMPLOYEE_DATA.TXT
DES$GS_EX	GS_DDE_EXT_INSUR_REPORT.TXT
DES$GS_EX	GS_DDE_GOVERNMENT_REPORT.TXT

[4]The DES$GS_EX logical name for the directory containing Gane & Sarson online training examples is defined as [SYSHELP.EXAMPLES.DECDESIGN.GS]

(continued on next page)

Table B–1 (Cont.) Files Installed by DECdesign

Directory	File name
DES$GS_EX	GS_DDE_INT_INSUR_REPORT.TXT
DES$GS_EX	GS_DDE_PAYROLL_DATA.TXT
DES$GS_EX	GS_DDE_PERSONAL_DATA.TXT
DES$GS_EX	GS_DDE_POSITION_DATA.TXT
DES$GS_EX	GS_DDE_SALARY_DATA.TXT
DES$GS_EX	GS_DDE_VALID_DATA.TXT
DES$GS_EX	GS_CORP_HR.TXT
DES$GS_EX	GS_DD_QUICK_REFERENCE.TXT
DES$GS_EX	GS_EXAMPLE_FILE_LIST.TXT
DES$GS_EX	GS_GOV_AGENCY.TXT
DES$GS_EX	GS_INSURANCE.TXT
DES$GS_EX	GS_MANAGERS.TXT
DES$GS_EX	GS_OLT_EVALUATION_FORM.TXT
DES$GS_EX	GS_PAYROLL.TXT
DES$GS_EX	GS_PROCESS_SPEC.TXT
DES$GS_EX	GS_SITE_HR.TXT
DES$GS_EX	GS_DFD0.DDIF
DES$GS_EX	GS_DFD1-1.DDIF
DES$GS_EX	GS_DFD1-4.DDIF
DES$GS_EX	GS_DFD1.DDIF
DES$GS_EX	GS_EERD.DDIF
DES$GS_EX	GS_SC.DDIF
DES$GS_EX	DES$GS_OLT_PROFILE.DECW$BOOK
DES$GS_EX	DES$GS_OLT_PROFILE.DECW$BOOKSHELF
[SYSLIB]	DES$CALL_CONTEXT.EXE
[SYSLIB]	DES$DSLSHR.EXE
[SYSMSG]	DES$MSG.EXE
[SYSMGR]	DES$CREATE_SERVER_ACCOUNT.COM
[SYSMGR]	DES$NETOBJ_INSERT.COM

(continued on next page)

Table B–1 (Cont.) Files Installed by DECdesign

Directory	File name
[SYSMGR]	DES$SERVER_LOGIN.COM
[SYSTEST]	DECDESIGN.DIR
[SYSTEST.DECDESIGN]	DES$IVP.COM
[VUE$LIBRARY.USER]	DES$VUE.COM
[VUE$LIBRARY.USER]	DES$VUE_PROFILE.VUE$DAT

B.2 Logical Names

The following logical names are entered into the system logical name table when DECdesign is installed. Thesse names are in the product's startup file. It is automatically entered into the system logical name table whenever the system reboots or whenever the software is invoked.

- DES$PREDEFINED
- DES$Y_EX
- DES$GS_EX
- DES$WAIT