VAX Rdb/ELN Installation Guide

Order Number: AA–AD76H–TE

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Target Environment:	VAXELN Versions 4.1 or 4.2

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The Reader's Comments form at the end of this document requests your critical evaluation to assist in preparing future documentation.

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Preface

Purpose of This Manual

VAX Rdb/ELN, also referred to as Rdb/ELN in this manual, is a realtime relational database management system designed for use by applications running on networks of dedicated VAX/VMS computers. Like all Digital relational product family members, VAX Rdb/ELN is an implementation of the Digital Standard Relational Interface (DSRI) architecture.

This manual describes the procedure for installing Rdb/ELN on a host development VAX/VMS system.

Intended Audience

This manual is intended for individuals who are responsible for installing and maintaining VAX Rdb/ELN.

Operating System Information

VAX Rdb/ELN applications are developed on the VMS operating system and run in the VAXELN realtime environment. For VAX Rdb/ELN V2.3, you need VMS Version 5.1, 5.2, 5.3, or 5.4 as well as VAXELN Version 4.1 or 4.2.

Contact your Digital representative if you have questions about the compatibility of other software products with VAX Rdb/ELN. You can request the most recent copy of the *VAX System Software Order Table/Optional Cross Reference Table*, which will verify those versions of your operating system that are compatible with this version of VAX Rdb/ELN.

Structure of This Manual

This manual consists of three chapters and three appendixes as follows:

Chapter 1 tells how to plan for installing VAX Rdb/ELN. It describes the necessary software, system resources, process quotas, and so on required for the installation.

Chapter 2 describes the installation procedure.

Chapter 3 describes the postinstallation tasks.

Appendix A provides a sample installation of VAX Rdb/ELN using the VAX/VMS V5.1 operating system.

Appendix B lists the files installed on your system during the VAX Rdb/ELN installation.

Appendix C lists the error messages that might appear during the installation. There is an explanation and user action provided for each message.

Conventions

The following conventions for syntax and symbols are used throughout this manual in the presentation of interactive examples:

Convention	Meaning
WORD	An uppercase word in a syntax format is a keyword. You must include it in the statement if the clause is used.
word	A lowercase word in a syntax format indicates a syntax element that you supply.
Italics	Italics indicate a reference, in text, to a term(s) used in an example.
Color	Color in examples indicates user input.
RET	This symbol indicates the RETURN key. Unless otherwise indicated, end all user input lines in examples by pressing the RETURN key.
TAB	This symbol indicates the TAB key.
CTRL/x	This symbol tells you to depress the CTRL (control) key while pressing a letter key.
$	The dollar sign represents the VMS system prompt. This symbol indicates that the VMS command interpreter is ready for input.
. . .	A horizontal ellipsis means you can repeat the previous item.
. . .	A vertical ellipsis in an example means that information not directly related to the example has been omitted.

Chapter 1

Planning the Installation

This chapter describes the requirements for installing VAX Rdb/ELN on the host development VMS system. Installation of the VAXELN target system is covered later. Before proceeding with the installation, read this chapter carefully and ensure that your system meets the requirements. This chapter covers: prerequisite software, directories and files required for installation, disk storage requirements for installation, and account and system requirements.

If you are using a DECnet link between the VMS host and VAXELN target system, you must have compatible DECnet versions installed on the host and the target. This manual does not describe the installation of VMS, VAXELN, or DECnet.

1.1 Prerequisite Software

The following sections describe the needed software for Rdb/ELN.

1.1.1 Rdb/ELN Host Development Environment

The VAX Rdb/ELN V2.3 host development environment can be installed and run on any VAX processor that supports the VMS Operating System Version 5.1, 5.2, 5.3, or 5.4.

1.1.2 The VAXELN Toolkit

The correct version of the VAXELN Toolkit must be installed on the host development system before you can install Rdb/ELN. Rdb/ELN V2.3 requires VAXELN Versions 4.1 or 4.2.

To support Rdb/ELN, the VAXELN toolkit libraries should be configured to make G_FLOATING the default representation of double-precision floating-point numbers. This is done by executing the following command file:

```
$ @ELN$:GFLOATRTL.COM
```

System privilege is required to execute this command procedure (see Section 1.4 for the exact privileges needed).

When you compile application programs, you will use the compiler's /G_FLOATING qualifier. See the *VAX Rdb/ELN Guide to Application Development* for further information.

1.1.3 Installing Rdb/ELN and Rdb/VMS on the Same Host System

VAX Rdb/VMS is not required in order to run Rdb/ELN. However, Rdb/VMS and Rdb/ELN can be installed on the same system without difficulty. If you have Rdb/VMS on your system, it must be Version 3.0 or later.

If Rdb/VMS is installed on your system, you need to check whether SYS$SHARE:RDMSHR.EXE is a known installed image:

```
$ INSTALL :== $INSTALL/COMMAND  ! define foreign command to simplify typing
$ INSTALL

INSTALL> LIST SYS$SHARE:RDMSHR.EXE
```

If SYS$SHARE:RDMSHR.EXE is a known image, you will receive output similar to the following:

```
DISK$WORK4:<SYS5.SYSCOMMON.SYSLIB>.EXE
   RDMSHR;2         Open   Shar    Prot Lnkbl
```

If SYS$SHARE:RDMSHR.EXE is not a known image, messages similar to the following will appear:

```
%INSTALL-W-FAIL, failed to LIST entry for
   DISK$WORK4:<SYS5.SYSCOMMON.SYSLIB>RDMSHR.EXE
-INSTALL-E-NOKFEFND, Known File Entry not found
```

If Rdb/VMS is installed on your system and you receive error messages as described above, you must make SYS$SHARE:RDMSHR.EXE a known image before installing Rdb/ELN. You can do this in one of two ways:

1. Execute the following commands before running any Rdb/ELN programs or utilities (including the Rdb/ELN installation procedure) each time you log onto the system:

```
$ @SYS$MANAGER:RMONSTART.COM
$ INSTALL

INSTALL> LIST SYS$SHARE:RDMSHR.EXE

   DISK$WORK4:<SYS5.SYSCOMMON.SYSLIB>.EXE
      RDMSHR;2         Open   Shar    Prot Lnkbl

INSTALL> EXIT
$
```

2. Have the system manager edit SYS$MANAGER:SYSTARTUP.COM to include the following command so RDMSHR.EXE is installed as a known image each time the system is rebooted:

```
$ @SYS$MANAGER:RMONSTART.COM
```

1.2 Directories and Files Required for Installation on the Host System

The installation procedure creates the various files included in your VAX Rdb/ELN software installation kit (see Appendix B). These files can be classified as either library files or system files.

1.2.1 Library Files

The Rdb/ELN installation procedure creates some library files and copies them to the library directory [RDBB] on the disk you specify. If the [RDBB] directory does not already exist, the installation procedure creates it. The installation procedure also assigns the system logical name RDBB$LIBRARY to the [RDBB] directory.

NOTE

> If the system logical name RDBB$LIBRARY already exists for software other than Rdb/ELN, you should use a different logical name for that software.

The Rdb/ELN installation procedure also creates several library files that are placed in the VAXELN directory [ELN], which has the system logical name ELN$. This directory and the logical name that points to it were created by the installation of the VAXELN Toolkit on the host development system. Rdb/ELN automatically uses this directory; the files Rdb/ELN copies to the ELN$ directory might or might not be on the same disk or disks as the RDBB$LIBRARY files and the system files.

See Appendix B for a complete list of the library files placed in the RDBB$LIBRARY and ELN$ directories.

1.2.2 System Files

The system files are created by the installation procedure and copied to several system directories on the system disk you specify.

All files not installed as library files (that is, in the RDBB$LIBRARY or ELN$ directories) are installed as system files and placed in the appropriate directory. The system directories are:

- [SYSMSG], which has the system logical name SYS$MESSAGE
- [SYSEXE], which has the system logical name SYS$SYSTEM
- [SYSLIB], which has the system logical name SYS$LIBRARY
- [SYSHLP], which has the system logical name SYS$HELP

See Appendix B for a list of the system files in these directories.

1.3 Disk Storage Requirements for Installation

Depending on the available disk space on your VMS system, you will need at least one and possibly two disks to store the library and system files during the installation procedure.

1.3.1 Storage Requirements for One Disk

If there is enough space on one disk in your VMS system, you can use the same disk for both the library files and the system files.

If one disk is used, it should have a peak of 9,132 free blocks, of which approximately 600 blocks are freed when the installation procedure completes. You can use the VMS command SHOW DEVICE to determine how much free space is available on the target disk.

1.3.2 Storage Requirements for Two Disks

If two disks are used (one for the library files and one for the system files), the library disk must be mounted and write-enabled before you begin the installation.

- The disk the library files are copied to must have 3,300 free blocks.
- The disk the system files are copied to must have 9,132 free blocks. Approximately 4,000 of these blocks are freed on the system disk when the installation procedure completes.

You can use the VMS command SHOW DEVICE to determine how much free space is available on the target disks.

1.3.3 VMS Tailoring Kits

The VMS Tailoring Kits contain files (classes) which allow you to subset VMS for your particular requirements. Refer to the *System Support Addendum* (SSA) for more information.

1.4 Account and System Requirements

The following sections describe the process privileges and quotas and the system parameters needed to install and run VAX Rdb/ELN.

1.4.1 Account Privileges and Quotas

Typically, layered product installations are performed from a privileged system manager's account. In any case, the account from which you install Rdb/ELN should have the characteristics listed in Table 1–1. Use the VMS command SHOW PROCESS/QUOTA to list the quotas for the account.

Table 1–1: Account Privileges and Quotas Required for Installation

Privilege or Quota	Description	Minimum Quota Value
SETPRV	Allows you to set any privilege bit	NA
ASTLM	AST queue limit	10
BIOLM	Buffered I/O count limit	6
BYTLM	Buffered I/O byte count limit	8192
DIOLM	Direct I/O count limit	6
ENQLM	Enqueue quota	70
FILLM	Open file limit	10
PGFLQUOTA	Paging file size	3500

NOTE

All VAX Rdb/ELN users need SYSLCK privilege to lock system-wide resources.

Make sure the account from which you will be installing Rdb/ELN has these privileges and quotas. If it does not, you can change these values with the AUTHORIZE utility. For example:

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

UAF> MODIFY SYSTEM/DIOLM=12
UAF> EXIT
$
```

You must then log out and log in again for the changes to take effect.

1.4.2 System Parameter Requirements

If your system's working set (WSMAX) or process section count parameter (PROCSECTCNT) is too low, you might receive the error "Process/Global section table full" when you run the IVP. You might also receive errors if your system's symbol table limit (CLISYMTBL) is too low.

To avoid such errors, make sure these parameters have at least the following values:

- Both PROCSECTCNT and WSMAX system parameters should be set to at least the default value assigned by the SYSGEN utility. (The value might be greater than the default assigned by SYSGEN.)
- The CLISYMTBL value should be at least 500.

To determine the current value of these parameters, enter the following command:

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

To check the process section count parameter, enter the following command at the SYSGEN> prompt:

```
SYSGEN> SHOW PROCSECTCNT
```

The following display should appear on the screen:

```
Parameter_Name   Current   Default   Minimum   Maximum   Unit
--------------   -------   -------   -------   -------   --------
   PROCSECTCNT        32        32         5      1024   Sections
```

To check the working set, enter:

```
SYSGEN> SHOW WSMAX
```

The following display appears:

```
Parameter_Name   Current   Default   Minimum   Maximum   Unit
--------------   -------   -------   -------   -------   -----
         WSMAX       512      1024        60     64000   Pages
```

To check the symbol table limit, enter:

```
SYSGEN> SHOW CLISYMTBL
```

The following display appears:

```
Parameter_Name   Current   Default   Minimum   Maximum   Unit
--------------   -------   -------   -------   -------   -----
     CLISYMTBL       500       500        10       500   Pages
```

In the preceding examples, the CLISYMTBL is adequate, and PROCSECTCNT is set to the default (the Current and Default values are the same), but WSMAX is not.

To modify these values, edit the file SYS$SYSTEM:MODPARAMS.DAT to include the correct values.

Now you must run AUTOGEN to recompute the system parameters. Enter the following commands:

```
$ @SYS$UPDATE:AUTOGEN SAVPARAMS GENPARAMS
$ @SYS$UPDATE:AUTOGEN SETPARAMS REBOOT
```

Since PROCSECTCNT and WSMAX are not dynamic parameters, you must reboot the system. AUTOGEN will perform an automatic shutdown and reboot when it has finished.

1.5 Preliminary Installation Steps

Before you run VMSINSTAL, you must perform the tasks described in the following sections.

1.5.1 Purge and Back Up the Installation (Target) Disk

To purge and back up the installation disk, perform these steps:

1. Log in to the system manager's account at the console terminal.
2. Remove all unwanted or redundant files from the installation disk.
3. Back up the installation disk:

   ```
   $ BACKUP/IMAGE install-disk backup-device
   ```

1.5.2 Stop Interactive and Batch Processes

The steps to stop interactive and batch processes follow:

1. Make sure all users are logged out and all batch jobs are complete. If users are still on the system, notify them to log out.

   ```
   $ SHOW USERS
   $ SHOW SYSTEM/BATCH
   $ REPLY/BELL/ALL "<logout-message>"
   ```

2. Prevent users from gaining access to the system by disabling interactive logins. First check how many interactive logins are normally allowed on your system by typing:

   ```
   $ SET LOGINS/INTERACTIVE
   ```

   Note the displayed number so that you can reenable logins after the installation is complete.

   Now disable logins by typing:

   ```
   $ SET LOGINS/INTERACTIVE=0
   ```

1.5.3 Stop Network Activity

1. To stop network activity, make sure DECnet–VAX is inoperative:

   ```
   $ SHOW NETWORK
   ```

   If you receive the response "Network Unavailable," continue with the installation procedure described in Chapter 2. If your DECnet is up and running, shut it down using the following commands:

   ```
   $ RUN SYS$SYSTEM:NCP
   NCP> SET EXECUTOR STATE SHUT
   NCP> EXIT
   $
   ```

1.6 Time Required for Installation

Installing the VAX Rdb/ELN host development system should take approximately 20 minutes on a VAX system running VMS Version 5.0 or later.

Chapter 2

Installation Procedure

This chapter describes how to install Rdb/ELN:

- It gives the steps you must take before beginning the installation.
- It guides you through the steps for running the VMSINSTAL command procedure. VMSINSTAL moves the Rdb/ELN software from the distribution media to your system disk.

Appendix A contains a sample installation dialogue.

During the installation procedure, VMSINSTAL prompts you as described below. The default answer for each prompt is enclosed by square brackets [ ]. To take the default answer, press RETURN. You can obtain help information at any time during the execution of VMSINSTAL by entering a question mark (?).

NOTE

Perform all of the following steps in the given order.

2.1 Installation Information

The following sections contain information about files installed on your system and about accessing the Rdb/ELN Release Notes before completing the installation.

2.1.1 Files Installed on Your System

During the Rdb/ELN installation, a number of files are placed in various locations on your system. Appendix B lists these files.

2.1.2 Release Notes

Online release notes for Rdb/ELN are provided in the media kit. Once you have installed Rdb/ELN, the online release notes are stored in the file SYS$HELP:RDBB023.RELEASE_NOTES.

2.2 Steps in the Installation Procedure

The installation procedure follows:

1. Verify that you have enough space on the system (target) disk to carry out the installation procedure (see Chapter 1 for disk space requirements):

   ```
   $ SHOW DEVICE system-disk
   ```

   If you do not have enough space, remove some files from the target disk before you continue the installation.

2. VMS V5 supports the License Management Facility (LMF), a software product that makes supporting various features of the Digital Distributed Software Licensing Architecture (DDSLA) possible on Rdb/ELN V2.3. You are required to register a Product Authorization Key (PAK). To obtain and register your PAK, contact your Digital representative. Refer to the *VMS License Management Utility Reference Manual* for information pertaining to this command procedure, explanations of any messages or errors, any corresponding user actions required, and management features of LMF.

   NOTE

   In a VAXcluster environment, you should load the registered license on each node of the cluster from which the software is to be run.

3. Physically load the Rdb/ELN distribution media (tape or disk), but do not mount it (do not execute the MOUNT command).

4. Invoke the installation procedure with the following commands:

```
$ SET DEFAULT SYS$UPDATE
$ @VMSINSTAL RDBBnnn source-device: OPTIONS N
```

   - *SYS$UPDATE* is the directory name associated with the *VMSINSTAL* command procedure file.
   - *RDBBnnn* is the product name, or identifier, for the VAX Rdb/ELN development system. The string "nnn" represents the number of the Rdb/ELN version being installed.

     If you invoke VMSINSTAL without providing a product name, VMSINSTAL will prompt you for the product name.
   - *Source-device* is the disk or tape where VMSINSTAL mounts the distribution media, for example, MTA0:. Note that you must include the colon (:) with the source-device name. You can let VMSINSTAL prompt you for the source-device name.
   - Specify *OPTIONS N* to receive prompts about reviewing and/or printing the online Release Notes.

5. Check any warning messages that ask if you want to continue. Correct any problems before continuing the installation procedure. Otherwise, Digital might not support the resulting installation. For example:

```
%VMSINSTAL-W-DECNET, Your DECnet network is up and running.
* Do you want to continue anyway [NO]?
```

   If you answer no, VMSINSTAL returns you to Digital Command Language (DCL) command level. After you shut down the network, you must return to Step 3 and invoke VMSINSTAL again.

6. VMSINSTAL asks a series of questions:

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

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

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

7. If the library disk is different from the system disk, the next prompt allows you to specify it. The library disk must be mounted.

```
* Specify device for the RDBB library directory [system_device:]:
```

   If you only press RETURN, the library device will be the same as the system device.

If the logical name RDBB$LIBRARY already exists (for instance, if you have an earlier version of Rdb/ELN installed on your system), you will see a message to that effect.

The installation procedure will ask if you want to continue. If RDBB$LIBRARY exists because your system has an earlier version of Rdb/ELN installed, answer yes. If you are using the logical name RDBB$LIBRARY to refer to something else, you probably will have to discontinue the installation, remove the logical name from your system, and start the installation again.

You will be prompted for, and must supply, a password for the RDB$REMOTE account. The installation procedure will not continue until a valid password is entered. You will have three chances to enter a valid password and correctly confirm it. *The entire installation will fail* if you do not enter and confirm the password correctly after three opportunities.

The password you provide will be used for the RDB$REMOTE account and in the DECnet–VAX Network Control Program (NCP) object database on your VAX node. That is, the RDB$REMOTE password and the password assigned to the RDBSERVER.EXE image will be the same. RDBSERVER.EXE is the image supplied by Rdb/ELN that manages remote database access. In a VAXcluster environment, the installation procedure assigns the same password to RDB$REMOTE and RDBSERVER.EXE only on the node from which the installation took place.

Note that when a process using the RDB$REMOTE account starts, it executes the RDB$REMOTE_LOGIN.COM procedure in SYS$COMMON:[RDB$REMOTE]. This procedure now includes security checks to ensure that the user is running the RDBSERVER.EXE image (DECnet–VAX object number 35). RDBSERVER.EXE is the image supplied by Rdb/VMS that manages remote database access.

8. VMSINSTAL will now proceed with the installation automatically, including running the IVP if the default was specified.

   The IVP copies the Rdb/ELN sample databases to RDBB$LIBRARY and verifies the installation was successful.

   You might see a series of informational messages indicating that certain components whose names begin with the prefix VMI$ were not installed. Ignore these messages.

When the IVP checks the error message facilities, it will display a series of error messages. Ignore these messages, which indicate that the message facility is working correctly.

9. Read the console log carefully. Look for error and warning messages that indicate manual tasks you must perform.

   The installation checks for any files named SYS$SYSTEM:EPRE.EXE. If it finds any files with this name, it prints a message warning you that an unsupported EPRE preprocessor is still installed on your system. You should use RDML instead.

   See Appendix C for more information about messages.

2.3 Installation Procedure Example

Appendix A contains a sample installation of VAX Rdb/ELN. The installation procedure was carried out on a VMS operating system, Version 5.1. It takes about 20 minutes after the tape is loaded.

Chapter 3

Postinstallation Procedure

This chapter contains information about activities to perform after the installation is complete. The first section describes the postinstallation tasks. The second section tells how to run the IVP at a later time.

3.1 Postinstallation Tasks

After the installation is finished and you have checked the console log, you will need to perform the following tasks:

1. When the installation is finished, the logical name RDBB$LIBRARY will be defined system-wide.

   Edit the system start-up command procedure so RDBB$LIBRARY is defined each time the system is booted:

   $ DEFINE/SYSTEM/EXECUTIVE RDBB$LIBRARY disk:[RDBB]

   Note that SYSNAM privilege is required for this; otherwise, the /EXECUTIVE qualifier is ignored.
2. Restart DECnet by invoking the following command procedure: SYS$MANAGER:STARTNET.COM. Depending on the size of your network, this procedure may require several minutes.
3. Restore interactive logins to the number you noted at the beginning of the installation:

   ```
   $ SET LOGINS/INTERACTIVE=saved-number
   ```

4. For security reasons, the RDBSERVER_NCP.COM procedure now prompts you for the password to assign to the RDBSERVER object. For remote database access to work, you must assign the password entered during the installation procedure. For example, if you assigned the password XBIG_SECRETZ to the RDB$REMOTE account during the installation procedure on VAXcluster node JGLENN, you must log into nodes ALDRIN and YEAGER and enter:

   ```
   $ SET DEFAULT SYS$COMMON:[SYSMGR]
   $ @RDBSERVER_NCP

   Please enter the password for object name RDBSERVER:

   Please verify password:
   ```

   As with the DCL SET PASSWORD command, your input does not appear (echo) on the terminal. To protect against nonecho typing errors, you must enter the password twice. If you fail to input and verify the password correctly after three attempts, the RDBSERVER_NCP.COM procedure fails and the RDBSERVER object is not inserted into the node's DECnet object database. If this happens, you must repeat this fourth postinstallation task step again.

   Again, you do not have to run the RDBSERVER_NCP.COM procedure on the node from which the Rdb/ELN installation took place. The installation procedure executing on that node performed the RDBSERVER insertion into that node's DECnet object database.

5. When a process using the RDB$REMOTE account starts up, it executes the RDB$REMOTE_LOGIN.COM procedure written to your system by the installation procedure. The installation guide states that this login procedure is written to SYS$COMMON:[RDB$REMOTE]. After the installation guide was printed, the location for this login procedure changed to SYS$COMMON:[SYSEXE].

   This login procedure now includes security checks to ensure that the user is running the RDBSERVER.EXE image (DECnet–VAX object number 35).

   To run product-specific files during the RDB$REMOTE account login step, you must edit SYS$COMMON:[SYSEXE]RDB$REMOTE_LOGIN.COM and insert the appropriate DCL commands.

3.2 Running the IVP in a Standalone Environment

The installation verification procedure (IVP) can be run after the installation procedure completes (that is, in a standalone environment) by typing the following command:

```
$ @SYS$TEST:RDBELN$IVP.COM
```

During the installation procedure, all the files needed to run the IVP are copied to the [RDBB] directory that has the logical name RDBB$LIBRARY. Because RDBB$LIBRARY is defined system-wide, you can execute the IVP from any directory in a standalone environment.

Appendix A

Installation Procedure Example

This appendix contains a sample installation for VAX Rdb/ELN. The installation was performed using VMS Version 5.1. This sample installation includes the Installation Verification Procedure (IVP) and Product Authorization Key (PAK).

```
$ DIR/SIZE RDBB023

Directory DJB0:[KITS]

RDBB023.A;7            630
RDBB023.B;3           3024
RDBB023.C;3           2934
RDBB023.D;3           1350

Total of 4 files, 7938 blocks.

$ @SYS$UPDATE:VMSINSTAL

 VAX/VMS Software Product Installation Procedure V5.1

It is 25-JUN-1989 at 15:43.
Enter a question mark (?) at any time for help.

%VMSINSTAL-W-DECNET, Your DECnet network is up and running.
* Do you want to continue anyway [NO]? YES
* Are you satisfied with the backup of your system disk [YES]? YES
* Where will the distribution volumes be mounted: djb0:[kits]

Enter the products to be processed from the first distribution volume set.
* Products: rdbb023
* Options:
The following products will be processed:
  RDBB V2.3
 Beginning installation of RDBB V2.3 at 15:43

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

```
*****************************************************************************
*                                                                           *
*                          VAX Rdb/ELN T2.3                                 *
*                          ------------------                               *
*                                                                           *
*****************************************************************************

*****************************************************************************
*                                                                           *
*   Rdb/ELN will allow you to have help displayed in one of two ways.       *
*          1.  Type a  ?  anytime to any prompt.                            *
*          2   Answer yes to the next question and you will get help        *
*              printed before each prompt.                                  *
*                                                                           *
*****************************************************************************

* Do you want help displayed before each prompt [YES]? YES

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

    During this installation, new files will be provided to replace existing
    versions.  You may purge these older versions to save disk space, or keep
    them if you feel they may be of use.  Purging is recommended.
* Do you want to purge files replaced by this installation [YES]? YES

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

    Most products provide an Installation Verification Procedure (IVP)
    which verifies the completeness and accuracy of the installation.
    You may wish to run the IVP immediately after installation.
* Do you want to run the IVP after the installation [YES]? YES

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

 A product authorization key specific to the following
 reference items should be registered and loaded:

        Product:      RDB-ELN
        Producer:     DEC
        Version:      2.3
        Release Date: 15-FEB-1989

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

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

```
**************************************************************************
*                                                                        *
*  Rdb/ELN needs a device for RDBB$LIBRARY.  This device can be any valid   *
*  disk  on the system.   If you have  previously installed Rdb/ELN you     *
*  should already have this device defined.  The device shown in the        *
*  brackets is your current one.  If you want to keep it then type carriage *
*  return.  If you want to select a new one or this is your first Rdb/ELN   *
*  installation then enter a valid device.  Please note this device must be *
*  mounted and writeable.  In the case of the first time installation a     *
*  carriage return will select the system disk.                            *
*                                                                        *
**************************************************************************

* Specify device for the RDBB library directory [DJB0:]:
%RDBB-I-LIBRARY, The logical name RDBB$LIBRARY is defined for DJB0:[RDBB]
%VMSINSTAL-I-SYSDIR, This product creates system disk directory  DJB0:[RDBB].

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

    This installation requires the creation of the RDB$REMOTE
    account.  You MUST choose a UIC and password for this
    account.  PLEASE NOTE that your password for the RDB$REMOTE
    account and the network object RDBSERVER MUST be exactly the
    same.  The password you supply for the RDB$REMOTE account
    will be used for the network object as well IF the account is
    created by this installation.

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

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

    The installation procedure will not proceed until you enter a
    valid user identification code (UIC) for the RDB$REMOTE
    account.

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

* Enter UIC to be used for RDB$REMOTE account (e.g. [300,2]): [300,2]

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

    The entire installation will FAIL if you do not enter a valid
    password for the RDB$REMOTE account.  You will be given
    3 chances to verify your password.  This installation
    procedure requires at least 6 characters for the
    RDB$REMOTE password.  Valid characters for a password are:

       A through Z
       a through z
       0 through 9
       $ (dollar sign)
       _ (underscore)

    As with the DCL SET PASSWORD command, your input will not
    appear on the terminal.  And to protect against typing errors
    that are not seen when entering the password, you must enter
    the password twice.
```

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

* Please enter PASSWORD to be used for RDB$REMOTE account:

* Please verify the PASSWORD entered for RDB$REMOTE:

******************************************************************************
*                                                                            *
*       The installation procedure requires no further input.                *
*                                                                            *
*       Informational messages will be output to indicate the                *
*       progress of the installation procedure.                              *
*                                                                            *
******************************************************************************

******************************************************************************
*                                                                            *
*                               IMPORTANT                                    *
*                               ---------                                    *
*                                                                            *
*       When this installation procedure is finished, you must:             *
*       -------------------------------------------------------              *
*                                                                            *
*       Add the startup procedure SYS$MANAGER:RDBB$STARTUP.COM to            *
*       SYS$MANAGER:SYSTARTUP_V5.COM                                         *
*                                                                            *
******************************************************************************

%VMSINSTAL-I-RESTORE, Restoring product saveset B ...
%VMSINSTAL-I-RESTORE, Restoring product saveset C ...
%VMSINSTAL-I-RESTORE, Restoring product saveset D ...
%RDBB-I-BLDHELP, Building the ERQL HELP library...
%RDBB-I-RDBVER, Checking current versions of RDB...

%RDBB-I-ACCOUNT, This installation creates an account named RDB$REMOTE.

%RDBB-I-ADDNETDB, RDBSERVER has been placed in the DECnet object database
as number 35.

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

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

        a) Logging into that node, and
        b) Invoking SYS$COMMON:[SYSMGR]RDBSERVER_NCP.COM.

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

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

```
%RDBB-I-RDML, Checking for any existing RDML components
%RDBB-I-RDML, Installing RDML components
%RDBB-I-INSTALL, Inserting module ERDBSHR in ELN$:RTLSHARE.OLB...
%RDBB-I-HELP, Inserting Rdb/ELN HELP into the system HELP library...
%RDBB-I-SYSFILES, Moving files into the SYSTEM directories...
%RDBB-I-LIBFILES, Moving the LIBRARY files into the RDBB$LIBRARY directory...
%RDBB-I-LINKERQL, Linking the image RDBBRQL
%RDBB-I-IVPFILES, Moving the IVP files into the RDBB$LIBRARY directory...
%VMSINSTAL-I-MOVEFILES, Files will now be moved to their target directories...
*******************************************************************************
*                                                                             *
*       Rdb/ELN T2.3 Installation Verification Procedure                      *
*                                                                             *
*                                                                             *
*                                                                             *
*       Recreate and populate the database with EBRP                          *
*                                                                             *

$
$ EBRP RESTORE RDBB$LIBRARY:PERSONNEL RDBB$LIBRARY:PERSONNEL
    Backed up by VAX Rdb/ELN Backup/Restore Processor (EBRP) V2.1-0
    Source database was _$222$DUA6:[RDBELN.DEMO]PERSONNEL.RDB;4
 An Rdb/ELN V2.0-0 database
 Page size was 1024 bytes
 It was logically backed up on 18-NOV-1987 02:08:54.38
    Database DJB0:[RDBB]PERSONNEL.RDB;1 has been created.
 Page size is 1024 bytes.
 Now processing relation WORK_STATUS
 Now processing relation DEPARTMENTS
 Now processing relation COLLEGES
 Now processing relation SALARY_HISTORY
 Now processing relation RESUMES
 Now processing relation JOB_HISTORY
 Now processing relation JOBS
 Now processing relation EMPLOYEES
 Now processing relation DEGREES
 Now processing relation SALARY_REVIEW
 Now processing view CURRENT_SALARY
 Now processing view CURRENT_JOB
 Now processing view INFO
  EBRP Command Done
$
*
*
* Access the database using ERQL
*
$
$ ERQL

Rdb/ELN Query Language Interpreter Version
T2.3

Type "HELP" or "?" for help
```

```
READY RDBB$LIBRARY:PERSONNEL
FOR R IN RDB$RELATIONS SORTED BY R.RDB$RELATION_NAME
    PRINT R.RDB$RELATION_NAME
END_FOR
COLLEGES

CURRENT_JOB

CURRENT_SALARY

DEGREES

DEPARTMENTS

EMPLOYEES

INFO

JOBS

JOB_HISTORY

RDB$CONSTRAINTS

RDB$CONSTRAINT_RELATIONS

RDB$DATABASE

RDB$FIELDS

RDB$IDS

RDB$INDEX_SEGMENTS

RDB$INDICES

RDB$PAGES

RDB$RELATIONS

RDB$RELATION_FIELDS

RDB$TUPLE_VERSIONS

RDB$VIEW_RELATIONS

RESUMES

SALARY_HISTORY

SALARY_REVIEW

WORK_STATUS
```

```
FINISH
EXIT
$
$
*
* Build and run an EPASCAL DML program to access the database
*
$
$ RDML/EPASCAL/OUTPUT=RDBB$LIBRARY:DEMO RDBB$LIBRARY:DEMO
%RDML-I-GFLOATING, G_Floating datatypes detected in this module;
  use /G_FLOATING qualifier when compiling

%RDML-I-SUMMARY, Completed with 0 Errors, 0 warnings, and
  1 informational message

$ EPASCAL/G_FLOATING/NOLIST/OBJECT=RDBB$LIBRARY:DEMO RDBB$LIBRARY:DEMO
$ LINK/EXECUTABLE=RDBB$LIBRARY:DEMO -
   RDBB$LIBRARY:DEMO,SYS$LIBRARY:RDMLRTL/LIB, -
       RDBB$LIBRARY:RDBELNLNK/OPT
      SYS$LIBRARY:VAXCRTLG.EXE/SHARE
$ RUN RDBB$LIBRARY:DEMO
Employee Id     Employee        City              Degree
   00187        Lasch          Acworth              BA
   00198        Gehr           Alstead              BA
   00218        Hall           Alstead              BA
   00226        Boyd           Alton                BA
   00185        Stadecker      Alton                BA
   00174        Myotte         Bennington           BA
   00249        Rodrigo        Bennington           BA
   00166        Dietrich       Boscawen             BA
   00223        Foote          Boscawen             BA
   00214        Mellace        Boscawen             BA
   00267        Saninocencio   Boscawen             BA
   00228        Harrison       Boston               BA
   00209        Smith          Bristol              BA
   00232        McElroy        Cambridge            BA
   00231        Clairmont      Chocorua             BA
   00358        Lapointe       Chocorua             BA
   00245        Roberts        Chocorua             BA
   00239        Sarkisian      Chocorua             BA
   00217        Siciliano      Chocorua             BA
   00165        Smith          Chocorua             BA
   00319        Silver         Colebrook            BA
   00276        Watters        Colebrook            BA
   00236        Gramby         Etna                 BA
   00169        Gray           Etna                 BA
   00177        Kinmonth       Etna                 BA
   00211        Gutierrez      Farmington           BA
   00175        Siciliano      Farmington           BA
   00196        Clarke         Fremont              BA
   00204        Myotte         Fremont              BA
   00183        Nash           Fremont              BA
   00190        O'Sullivan     Fremont              BA
   00188        Clarke         Jefferson            BA
   00206        Stornelli      Jefferson            BA
```

00170	Wood	Jefferson	BA
00234	Robinson	Keene	BA
00230	Tarbassian	Keene	BA
00219	Villari	Keene	BA
00186	Watters	Keene	BA
00191	Pfeiffer	Marlborough	BA
00167	Kilpatrick	Marlow	BA
00199	Nunez	Meadows	BA
00193	Reitchel	Meadows	BA
00325	Eiser	Merrimack	BA
00359	Crain	Milan	BA
00233	Mathias	Milan	BA
00213	Mercier	Milan	BA
00240	Johnson	Milford	BA
00354	Belliveau	Milton	BA
00287	Brown	Milton	BA
00184	Frydman	Milton	BA
00181	Reynolds	Milton	BA
00208	Sciacca	Munsonville	BA
00237	Burton	Penacook	BA
00192	Connolly	Penacook	BA
00471	Herbener	Penacook	BA
00242	Vormelker	Rochester	BA
00222	Lasch	Salisbury	BA
00221	Sullivan	Sandown	BA
00173	Bartlett	Troy	BA
00224	Manning	Troy	BA
00241	Keisling	Twin Mountain	BA
00210	Dietrich	Whitefield	BA
00238	Flynn	Whitefield	BA
00172	Peters	Whitefield	BA
00247	Ulrich	Whitefield	BA
00180	Canonica	Wilmot	BA
00195	Emery	Wilmot	BA
00227	Johnston	Wolfeboro	BA
00201	Clinton	Wonalancet	BA
00225	Jackson	Wonalancet	BA
00194	Morrison	Wonalancet	BA
00244	Boyd	Acworth	MA
00197	Danzig	Acworth	MA
00218	Hall	Alstead	MA
00416	Ames	Alton	MA
00226	Boyd	Alton	MA
00185	Stadecker	Alton	MA
00415	Mistretta	Bennington	MA
00174	Myotte	Bennington	MA
00369	Lapointe	Boscawen	MA
00267	Saninocencio	Boscawen	MA
00228	Harrison	Boston	MA
00217	Siciliano	Chocorua	MA
00164	Toliver	Chocorua	MA
00243	Dement	Etna	MA
00203	Gaudet	Fremont	MA
00202	Harrington	Fremont	MA
00190	O'Sullivan	Fremont	MA

00229	Robinson	Fremont	MA
00188	Clarke	Jefferson	MA
00206	Stornelli	Jefferson	MA
00230	Tarbassian	Keene	MA
00219	Villari	Keene	MA
00435	MacDonald	Marlborough	MA
00167	Kilpatrick	Marlow	MA
00205	Bartlett	Meadows	MA
00246	Lonergan	Meadows	MA
00168	Nash	Meadows	MA
00179	Dallas	Milan	MA
00233	Mathias	Milan	MA
00248	Klein	Milford	MA
00354	Belliveau	Milton	MA
00287	Brown	Milton	MA
00220	Gehr	Milton	MA
00237	Burton	Penacook	MA
00235	Clinton	Penacook	MA
00192	Connolly	Penacook	MA
00471	Herbener	Penacook	MA
00374	Andriola	Salisbury	MA
00189	Lengyel	Salisbury	MA
00405	Dement	Sanbornton	MA
00207	Babbin	Sanbornville	MA
00212	Clarke	Sandown	MA
00171	D'Amico	Sandown	MA
00182	Iacobone	Sandown	MA
00221	Sullivan	Sandown	MA
00238	Flynn	Whitefield	MA
00176	Hastings	Whitefield	MA
00345	Stornelli	Whitefield	MA
00247	Ulrich	Whitefield	MA
00180	Canonica	Wilmot	MA
00195	Emery	Wilmot	MA
00200	Ziemke	Winnisquam	MA
00227	Johnston	Wolfeboro	MA
00201	Clinton	Wonalancet	MA
00225	Jackson	Wonalancet	MA
00244	Boyd	Acworth	PhD
00418	Blount	Alstead	PhD
00198	Gehr	Alstead	PhD
00416	Ames	Alton	PhD
00415	Mistretta	Bennington	PhD
00166	Dietrich	Boscawen	PhD
00232	McElroy	Cambridge	PhD
00164	Toliver	Chocorua	PhD
00169	Gray	Etna	PhD
00211	Gutierrez	Farmington	PhD
00203	Gaudet	Fremont	PhD
00204	Myotte	Fremont	PhD
00183	Nash	Fremont	PhD
00229	Robinson	Fremont	PhD
00234	Robinson	Keene	PhD
00186	Watters	Keene	PhD
00435	MacDonald	Marlborough	PhD

```
   00246        Lonergan       Meadows              PhD
   00168        Nash           Meadows              PhD
   00359        Crain          Milan                PhD
   00184        Frydman        Milton               PhD
   00220        Gehr           Milton               PhD
   00242        Vormelker      Rochester            PhD
   00374        Andriola       Salisbury            PhD
   00405        Dement         Sanbornton           PhD
   00182        Iacobone       Sandown              PhD
   00241        Keisling       Twin Mountain        PhD
   00345        Stornelli      Whitefield           PhD
*
* Test help facilities
*
$
$ HELP EBRP RESTORE

EBRP

  RESTORE

     Restores a database from a file created with BACKUP.

     Format:

          EBRP RESTORE backupfile dbfile

     Example:

          EBRP RESTORE RDBDEMO.RBR RDBDEMO.Rdb


$
*
* Testing error facilities, DISREGARD any error messages
*                                 ---------
$ EBRP RESTORE RDBB$LIBRARY:UNKNOWN_DB RDBB$LIBRARY:UNKNOWN_DB
%PAS-F-FILNOTFOU, file not found
  File "BACKUP_FILE"  Filename "DJB0:[RDBB]UNKNOWN_DB.;"
-RMS-E-FNF, file not found
$
$ ERDL RDBB$LIBRARY:UNKNOWN_RDL
%RDBBUTL-F-BADFOPEN, Error opening input file 'DJB0:[RDBB]UNKNOWN_RDL.RDL;'.
$
$ ERQL

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Type "HELP" or "?" for help

READY RDBB$LIBRARY:UNKNOWN_DB
%RDBBUTL-E-READYERR, Error readying database 'RDBB$LIBRARY:UNKNOWN_DB'

$
$ RDML/EPASCAL RDBB$LIBRARY:UNKNOWN_FILE
%RDML-F-ERROR_OPENING, Cannot open file
         'DJB0:[RDBB]UNKNOWN_FILE.REP;'
```

```
$
*                                                                             *
*        Error facility testing COMPLETED                                     *
*                                                                             *
*                                                                             *
*        Rdb/ELN T2.3 IVP Completed Successfully                              *
*                                                                             *
*******************************************************************************

Restoring rdmlivp database

    Backed up by Rdb/VMS V2.2-0 Backup/Restore utility
        An Rdb/VMS V2.2-0 database
    Source database was RDMLIVP.RDB
        It was logically backed up on  1-MAY-1987 14:05:52.85
        Ignoring database access control information.
    Database DJB0:[RDBB]RDMLIVP.RDB;1 has been created.
        Page size is 1024 bytes.
        Ignoring access control information.
        Now processing relation EMPLOYEES
    EBRP Command Done

Running the RDML/EPASCAL preprocessor test.
    Test completed successfully

Running the RDML/PASCAL preprocessor test.
    Test completed successfully
 Installation of RDBB V2.2 completed at 16:24

Enter the products to be processed from the next distribution volume set.
* Products:
 VMSINSTAL procedure done at 16:33
```

Appendix B

Software Installation Kit Files

This appendix contains information about logical names and files that are installed on your system during the VAX Rdb/ELN installation.

The following logical names are installed on your system:

```
ELN$          == SYS$SYSDEVICE:[ELN]
RDBB$LIBRARY == SYS$SYSDEVICE:[RDBB]
```

Except for the sample databases, all of the files listed in Table B–1 are created or copied during the VAX Rdb/ELN installation procedure. You must run the Rdb/ELN Installation Verification Procedure (IVP) to install the sample database files.

Table B–1: Files Created or Copied by VAX Rdb/ELN Installation

Files Added to RDBB, ELN, and SYSO (System) Directories	Block Size
SYS$SYSDEVICE:[RDBB]DEMO.REP;1	11
SYS$SYSDEVICE:[RDBB]ERDBSHR.OLB;1	2063
SYS$SYSDEVICE:[RDBB]ERQLHELP.HLP;1	67
SYS$SYSDEVICE:[RDBB]ESORTLIB.OLB;1	93
SYS$SYSDEVICE:[RDBB]PERSONNEL.RBR;1	123
SYS$SYSDEVICE:[RDBB]PRODUCT_IDENT.OPT;1	1
SYS$SYSDEVICE:[RDBB]RDBBBRP.EXE;1	514
SYS$SYSDEVICE:[RDBB]RDBBHELP.HLP;1	28
SYS$SYSDEVICE:[RDBB]RDBBLOCK.EXE;1	98

Table B–1 (Cont.): Files Created or Copied by VAX Rdb/ELN Installation

Files Added to RDBB, ELN, and SYSO (System) Directories	Block Size
SYS$SYSDEVICE:[RDBB]RDBBMSGS.OBJ;1	19
SYS$SYSDEVICE:[RDBB]RDBBRQL.EXE;1	535
SYS$SYSDEVICE:[RDBB]RDBBRQL.OPT;1	2
SYS$SYSDEVICE:[RDBB]RDBBSINIT.EXE;1	21
SYS$SYSDEVICE:[RDBB]RDBBSRVR.EXE;1	152
SYS$SYSDEVICE:[RDBB]RDBBUTL.OBJ;1	59
SYS$SYSDEVICE:[RDBB]RDBELN$IVP.COM;1	19
SYS$SYSDEVICE:[RDBB]RDBELNLNK.OPT;1	1
SYS$SYSDEVICE:[RDBB]RDBELNMSG.MAP;1	206
SYS$SYSDEVICE:[RDBB]RDBELNMSG.OPT;1	1
SYS$SYSDEVICE:[RDBB]RDBELN_STARLET.OLB;1	285
SYS$SYSDEVICE:[RDBB]RDB_MESSAGE.OBJ;1	18
SYS$SYSDEVICE:[RDBB]RDMLIVP.ANS;1	1
SYS$SYSDEVICE:[RDBB]RDMLIVP.COM;1	15
SYS$SYSDEVICE:[RDBB]RDMLIVP.RBR;1	1
SYS$SYSDEVICE:[RDBB]RDMLIVP.RC;1	1
SYS$SYSDEVICE:[RDBB]RDMLIVP.REP;1	1
SYS$SYSDEVICE:[RDBB]RDMLIVP.RPA;1	1
SYS$SYSDEVICE:[RDBB]SORMSG.OBJ;1	15
SYS$SYSDEVICE:[RDBB]WINGSTRUT.RBR;1	25
SYS$SYSDEVICE:[ELN]ERDBSHR.EXE;1	421
SYS$SYSDEVICE:[ELN]ERDBSHR.MAP;1	627
SYS$SYSDEVICE:[SYS0]RDB$REMOTE.DIR;1	1
SYS$SYSDEVICE:[SYS0.SYSEXE]EBRP.EXE;1	156
SYS$SYSDEVICE:[SYS0.SYSEXE]ERDL.EXE;1	608
SYS$SYSDEVICE:[SYS0.SYSEXE]ERQL.EXE;1	471
SYS$SYSDEVICE:[SYS0.SYSEXE]RDB$REMOTE_LOGIN.COM;1	2
SYS$SYSDEVICE:[SYS0.SYSEXE]RDBSERVER.COM;1	1

Table B–1 (Cont.): Files Created or Copied by VAX Rdb/ELN Installation

Files Added to RDBB, ELN, and SYSO (System) Directories	Block Size
SYS$SYSDEVICE:[SYS0.SYSEXE]RDBSERVER.EXE;1	19
SYS$SYSDEVICE:[SYS0.SYSEXE]RDML.EXE;1	492
SYS$SYSDEVICE:[SYS0.SYSHLP]ERQLHELP.HLB;1	75
SYS$SYSDEVICE:[SYS0.SYSHLP]HELPLIB.HLB;4	1050
SYS$SYSDEVICE:[SYS0.SYSHLP]RDBB023.RELEASE_NOTES;1	368
SYS$SYSDEVICE:[SYS0.SYSHLP]RDBERROR_HELP.HLP;1	103
SYS$SYSDEVICE:[SYS0.SYSHLP]RDB_MSG.DOC;1	211
SYS$SYSDEVICE:[SYS0.SYSHLP]RDMLHELP.HLP;1	439
SYS$SYSDEVICE:[SYS0.SYSHLP]RDML_MSG.DOC;1	50
SYS$SYSDEVICE:[SYS0.SYSLIB]RDBBSHR.EXE;1	234
SYS$SYSDEVICE:[SYS0.SYSLIB]RDBSHR.EXE;1	152
SYS$SYSDEVICE:[SYS0.SYSLIB]RDMLEPAS.PAS;1	21
SYS$SYSDEVICE:[SYS0.SYSLIB]RDMLRTL.OLB;1	69
SYS$SYSDEVICE:[SYS0.SYSLIB]RDMLVAXC.H;1	38
SYS$SYSDEVICE:[SYS0.SYSLIB]RDMLVPAS.PAS;1	42
SYS$SYSDEVICE:[SYS0.SYSLIB]RDMMSGSHR.EXE;1	20
SYS$SYSDEVICE:[SYS0.SYSMGR]RDBB$STARTUP.COM;1	3
SYS$SYSDEVICE:[SYS0.SYSMGR]RDBSERVER_NCP.COM;1	1
SYS$SYSDEVICE:[SYS0.SYSMGR]VAXINFO$NETOBJ_INSERT.COM;1	12
SYS$SYSDEVICE:[SYS0.SYSMSG]RDBBMSGS.EXE;1	15
SYS$SYSDEVICE:[SYS0.SYSMSG]RDBELNMSG.EXE;1	158
SYS$SYSDEVICE:[SYS0.SYSMSG]RDBMSGS.EXE;1	16
SYS$SYSDEVICE:[SYS0.SYSMSG]RDBMSGS.MSG;1	155
SYS$SYSDEVICE:[SYS0.SYSMSG]RDMLMSG.EXE;1	17
SYS$SYSDEVICE:[SYS0.SYSMSG]RDMSMSG.EXE;1	54
SYS$SYSDEVICE:[SYS0.SYSMSG]VIDA_MESSAGE.EXE;1	33

Appendix C

Installation Messages

This appendix describes messages that may appear during installation. Three different types of messages may appear, each with a different prefix:

- *RDBB-I-* is the prefix for informational messages that do two things:
  - — Provide you with information about the installation process
  - — Alert you to problems, such as a write-locked disk, that you can fix without stopping the installation

  Installation will continue after you correct the error condition.
- *RDBB-W-* is the prefix for warning messages. These messages may occur even in a successful installation to warn you of some condition that may affect the system adversely.
- *RDBB-E-* is the prefix for error messages. These messages report fatal errors arising from the IVP, from the user exiting the installation process with <CTRL-Y>, and from unexpected installation failures.

  All fatal errors automatically terminate the installation.

The following section lists messages you might receive. Many of them contain substitution parameters. For example:

```
No such device <rdbb_device>
```

The token <rdbb_device> is replaced automatically with the device name, such as DUA1:.

C.1 Installation Procedure Messages

The following messages are displayed if problems occur during the installation process. The prompt is repeated so you can correct the problem.

`RDBB-E-BADELNVER, RDBELN Vxxx requires VAXELN Vxxx or higher`

Explanation: The indicated VAXELN version is the prerequisite software for this version of Rdb/ELN. The installation has been aborted.

Action: Install the correct version of VAXELN and re-try the installation.

`RDBB-E-BADVMSVER, RDBELN must be installed on VMS version xxx or higher`

Explanation: The indicated version of VMS (or higher) is the prerequisite software for this version of Rdb/ELN. The installation has been aborted.

Action: Upgrade your VMS system to the indicated VMS version or higher and re-try the installation.

RDBB-I-DEVNOTMOUNT, Device <rdbb_device> is not mounted

Explanation: The library device is not mounted.

Action: Mount the library device and reenter the name.

RDBB-E-DISKSPACE, Insufficient space for installation-needs <number> blocks

Explanation: There is not enough space on the target disk. The installation has been aborted.

Action: Clear space on the target disk by deleting, purging, or moving files.

`RDBB-E-NOVAXELN, VAXELN is not installed or the ELN$ logical is undefined`

Explanation: VAXELN is not installed on the system or the ELN$ logical name has not been defined. The installation has been aborted.

Action: VAXELN must be installed before Rdb/ELN can be installed. Re-try the installation after you have installed VAXELN. Once VAXELN is installed, define the ELN$ logical name.

RDBB-I-INSTALL, Inserting module <name> in <library>...

Explanation: This message informs you the installation process is modifying either an object or shareable image library in ELN$. The installation modifies RTL.OLB and RTLSHARE.OLB.

```
RDBB-I-INVDEVNAM, Invalid device name <rdbb_device>)
```

Explanation: The name supplied for the library device is invalid.

Action: Reenter the name for the library device.

```
RDBB-I-IVP, Now saving the IVP files into RDBB$LIBRARY:...
```

Explanation: This message informs you that the installation process is saving the files needed to run the IVP.

```
RDBB-I-LIBRARY, The logical name RDBB$LIBRARY is defined for
<rdbb_device> [RDBB]
```

Explanation: This message tells you where the library has been installed.

```
RDBB-I-LOGNAMREP, The logical name RDBB$LIBRARY is already defined
```

Explanation: The logical name RDBB$LIBRARY already exists and will be replaced if you proceed.

Action: Consult with your system users to be sure that RDBB$LIBRARY can be deleted safely from the system logical name tables.

```
RDBB-I-NOPRINT, Unable to print RELEASE NOTES, check SYS$PRINT queue
```

Explanation: The installation procedure was unable to print the release notes.

Action: Take corrective action on any error messages generated just before this one. If you still cannot print the release notes, ask your system manager to check the SYS$PRINT queue.

```
RDBB-I-NOSUCHDEV, No such device <rdbb_device>
```

Explanation: The name supplied for the library device is invalid.

Action: Reenter the name for the library device.

```
RDBB-I-WRITELOCK, Volume on <rdbb_device> is write locked
```

Explanation: The library device is write-locked.

Action: Write-enable and physically mount the library device, then reenter the name.

C.2 IVP Messages

The following messages are displayed if problems occur while the installation verification procedure runs.

```
RDBB-E-NORDBB, can't translate RDBB$LIBRARY--Rdb/ELN may not be
installed
```

Explanation: Rdb/ELN may not have been installed on the system. The IVP checks to see if RDBB$LIBRARY is defined.

Action: Make sure Rdb/ELN was installed successfully and that RDBB$LIBRARY is a system-defined logical name.

```
RDBB-E-NOVAXELN, VAXELN is not installed or the ELN$ logical is
undefined
```

Explanation: VAXLEN is not installed on the system or the ELN$ logical name has not been defined. The IVP has been aborted.

Action: You cannot run the IVP without VAXELN because the IVP checks to see if the ELN$ logical is defined and if the VAXELN PASCAL compiler is in SYS$SYSTEM. Make sure VAXELN is installed and ELN$ is defined. Re-try the IVP.

```
RDBB-E-QUOTA_TOO_LOW, this account's <quota-name> quota is too
low to run this IVP
```

Explanation: The named account quota is too low. The IVP has been aborted.

Action: Use AUTHORIZE to make certain the account has enough resources to run the IVP. If any changes are made, you must log out and log back in for the changes to take effect. Re-try the IVP.