EDCS II
Installation Guide

Order Number: AA–EY16D–TE

April 1991

This guide contains the installation procedure for the Electronic Data Control System (EDCS II).

Revision/Update Information: This manual supersedes the *EDCS II Installation Guide,* AA–EY16C–TE.

Operating System and Version: VMS Version 5.3-2 or higher

Software Version: EDCS II Version 2.1

digital equipment corporation
maynard, massachusetts

First printing, April 1986
Revised, December 1986
Revised, October 1989
Revised, April 1991

The information in this document is subject to change without notice and should not be construed as a commitment by Digital Equipment Corporation.

Digital Equipment Corporation assumes no responsibility for any errors that may appear in this document.

Any software described in this document is furnished under a license and may be used or copied only in accordance with the terms of such license. No responsibility is assumed for the use or reliability of software or equipment that is not supplied by Digital Equipment Corporation or its affiliated companies.

Restricted Rights: Use, duplication, or disclosure by the U.S. Government is subject to restrictions as set forth in subparagraph (c)(1)(ii) of the Rights in Technical Data and Computer Software clause at DFARS 252.227–7013.

© Digital Equipment Corporation 1986, 1989, 1991.
All rights reserved. Printed in U.S.A.

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

The following are trademarks of Digital Equipment Corporation: Bookreader, DECforms, DECnet, DECwindows, EDCS II, VAX, VAXcluster, VAX DOCUMENT, VAX Rdb/VMS, VMS, VT, and the DIGITAL logo.

PostScript is a registered trademark of Adobe Systems, Inc.

This document is available on CDROM.

This document was prepared with VAX DOCUMENT, Version 1.2.

S1175

Contents

Preface vii

Chapter 1 Preparing for Installation

1.1 Installation Procedure Requirements 1–3
1.1.1 Software Required 1–3
1.1.2 Time Required 1–4
1.1.3 Privileges Required 1–4
1.1.4 Disk Space Required to Install EDCS II 1–4
1.1.5 Disk Space Required to Operate EDCS II 1–6
1.1.6 System Parameter Values 1–6
1.1.6.1 Minimum System Parameter Values Required 1–7
1.1.6.2 System Parameter Recommendations for Larger Systems with Heavy Usage 1–7
1.1.6.3 Checking System Parameter Values 1–8
1.1.6.4 Calculating the GBLPAGES and GBLSECTIONS System Parameter Values 1–9
1.1.6.5 Changing System Parameter Values 1–10
1.1.7 Network Parameter Values Required 1–10
1.1.7.1 Checking Network Parameter Values 1–10
1.1.7.2 Calculating the Maximum Links Network Parameter Values 1–12
1.1.7.3 Changing Network Parameters 1–12
1.1.8 Minimum Process Quotas Required 1–13
1.1.9 VMSINSTAL Notification of Requirements 1–14

1.2 Shutting Down Previous EDCS Versions 1–14

1.3 Backing Up Your System Disk 1–15

1.4 Registering Your Software License 1–15

1.5 Procedure for Converting a VAX EDCS Database 1–16

1.6 Gathering Information Before You Install 1–16
1.6.1 Information Needed for All Installations 1–16
1.6.2 Information Needed for Installing EDCS II as Both Client and Server 1–17
1.6.3 Information Needed for Installing EDCS II as a Server Only . . 1–18
1.6.4 Information Needed for Installing EDCS II as a Client Only . . . 1–19

Chapter 2 Installing EDCS II

2.1 Installation Procedure 2–1

2.2 Reading the Online Release Notes 2–2

2.3 Aborting the Installation 2–2

2.4 Error Recovery 2–3

Chapter 3 After the Installation

3.1 Running the IVP After the Installation 3–1

3.2 Editing Parameter Files 3–3

3.3 Running EDCS II on a VAXcluster 3–4

3.4 Starting Up EDCS II 3–4

3.5 Running Verify and Repair 3–5

Appendix A Sample Installation of EDCS II as Both a Server and Client

Appendix B Sample Installation of EDCS II as a Server

Appendix C Sample Installation of EDCS II as a Client

Appendix D Solving Installation Errors

Index

Figures

1–1 EDCS II Installation Combinations 1–2

Tables

1–1 Disk Space Required to Install EDCS II 1–5
1–2 Disk Space Required to Operate EDCS II 1–6
1–3 Minimum Required System Parameters for EDCS II 1–7
1–4 Recommended System Parameters for Larger Systems with Heavy Usage 1–8
1–5 Number of Links Required 1–12
1–6 Minimum Process Quotas for EDCS II 1–13
2–1 Sample Installation Logs 2–2

Preface

This guide describes how to install the Electronic Data Control System (EDCS II) Version 2.1.

Intended Audience

This guide is for a system manager or anyone responsible for the installation of EDCS II.

Document Structure

This manual consists of three chapters and four appendixes:

- Chapter 1 describes how to prepare for EDCS II installations.
- Chapter 2 describes the installation procedure.
- Chapter 3 describes postinstallation considerations and procedures.
- Appendix A is an example of an installation of EDCS II as both a client and server.
- Appendix B is an example of an installation of EDCS II as a server.
- Appendix C is an example of an installation of EDCS II as a client. The installation of the DECwindows and DECforms menu interfaces is also shown.
- Appendix D describes potential errors and recovery procedures.

Associated Documents

The EDCS II documentation set consists of four other books, a pocket guide, and release notes, as follows:

- *EDCS II User's Guide*

  This guide describes the EDCS II tasks that allow users to create, access, revise, and review any type of data file. It also describes the DECforms and DECwindows menu interfaces, and the command line interface. This guide is for new users of the EDCS II system.

- *EDCS II Reference Manual*

  This manual provides a detailed description of EDCS II commands, parameters, and qualifiers, and discusses basic EDCS II concepts. It is for all EDCS II users. It is provided in your installation kit in PostScript (.ps) and ASCII (.txt) formats so that you can print it at your location.

  To print this manual on a PostScript printer, specify this file name:

  ```
  SYS$HELP:EDCS021_REFERENCE_MANUAL.PS
  ```

  To print this manual on a non-PostScript printer, specify this file name:

  ```
  SYS$HELP:EDCS021_REFERENCE_MANUAL.TXT
  ```

- *EDCS II Administrator's Guide*

  This guide describes how to configure, run, and maintain EDCS II. This guide is for EDCS II account managers and administrators.

- *EDCS II Programmer's Guide*

  This guide discusses how to use the EDCS II callable interface and contains an appendix of diagnostic messages. It also explains how to create customized queries on data stored in the VAX Rdb/VMS database. This guide is for programmers and developers.

- *EDCS II Pocket Guide*

  This guide describes how to enter EDCS II commands and summarizes commands, parameters, and qualifiers.

- *EDCS II Release Notes*

  The release notes contain information about added features or known problems not included in the documentation. The release notes are for all users and can be printed during the installation.

The EDCS II documentation set, excluding the *EDCS II Pocket Guide*, is available on CDROM for users who have DECwindows and Bookreader software.

Related Documents

You may want to refer to the following documentation for more information:

- The *VAX Rdb/VMS Installation Guide*
- The ''Backup'' section in the *VMS System Management Volume 2 Maintenance* manual
- The ''Introduction to System Management'' section in the *VMS System Management Volume 1A Setup* manual
- The ''Authorize'' section in the *VMS System Management Volume 3 Security* manual
- The ''SYSGEN Utility'' section in the *VMS System Management Volume 1B Setup* manual
- The ''Guide to Setting up a VMS System'' section in the *VMS System Management Volume 1A Setup* manual
- The *VMS Network Control Program* manual

Conventions

The following conventions are used in this guide:

Convention	Meaning
Return	In examples, a key name shown within a box indicates that you press a key on the keyboard; in text, a key name is not enclosed in a box. In this example, the key is the Return key. Note that the Return key is not usually shown in syntax statements or in all examples; however, assume that you must press Return after entering a command or responding to a prompt.
Ctrl/x	In examples, a key combination is enclosed in a box; in text, a key combination is not enclosed in a box. A key combination, with a slash separating two key names, indicates that you hold down the first key while you press the second key. For example, the key combination Ctrl/x indicates that you hold down the key labeled Ctrl while you press the key labeled x.
PF1 W	In examples, a key sequence is enclosed in a box; in text, a key sequence is not enclosed in a box. For example, the key sequence PF1 W indicates that you must first press and release the key labeled PF1, then press and release the key labeled W.
Color	Color in examples shows user input.
UPPERCASE	Uppercase letters in a command line indicate the keywords that you must enter. You can enter them in either uppercase or lowercase. You can use the first 3 characters to abbreviate command keywords, or you can use the minimum unique abbreviation.
lowercase italics	Lowercase italics indicate variables for which you supply a value.
[qualifier]	Brackets indicate that the enclosed item is optional. (Brackets are not, however, optional in the syntax of a directory name in a file specification or in the syntax of a substring specification in an assignment statement.)
{ ALL CURRENT }	Braces enclosing two or more items in commands indicate that you must specify one of the items.

Chapter 1

Preparing for Installation

This chapter discusses the preparations and requirements necessary for installing EDCS II.

EDCS II is a data management system that controls files in a distributed environment. The EDCS II database is connected directly to the server node. The server interfaces with the database to process user commands. One server node cannot have more than one database. You can use multiple server nodes (one server for each node) to create a multiple database (one database for each node) configuration.

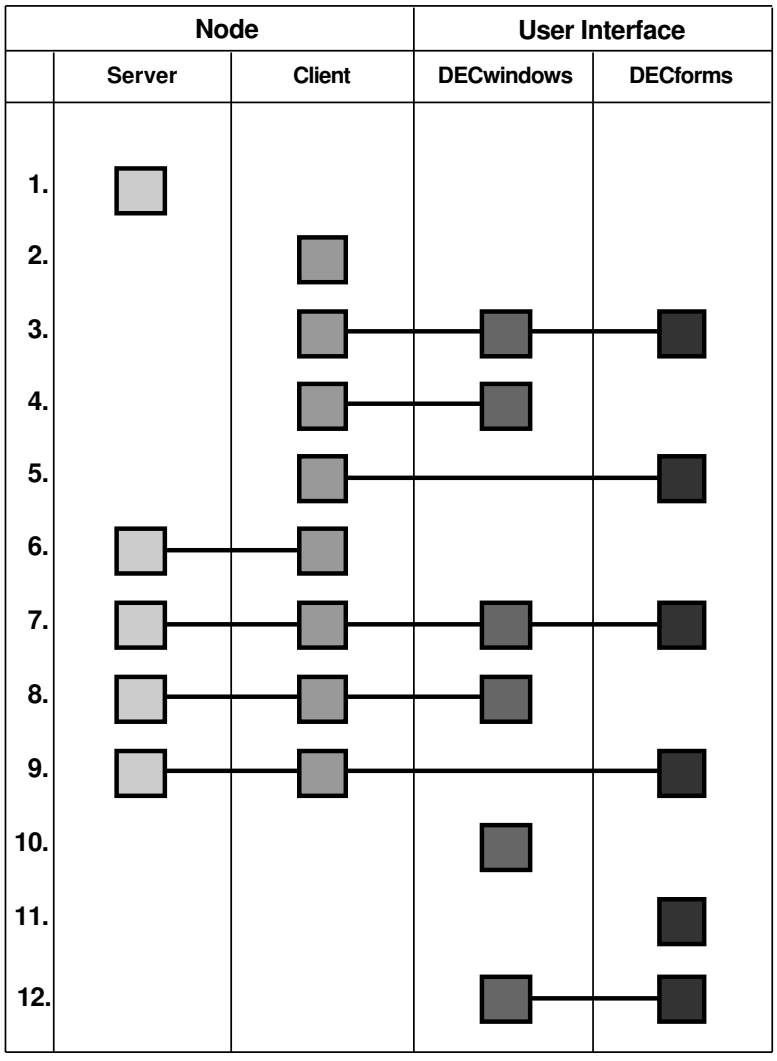
NOTE

When installing EDCS II, be sure to fully upgrade your system. EDCS II Version 2.1 is incompatible with Version 2.0. Therefore, you cannot run Version 2.0 on a client and Version 2.1 on a server, or vice versa.

The client node contains the user interface. One or more client nodes can connect to the server node by the DECnet network. You can have one node function as both a server and a client or you can have separate server nodes and client nodes. When you install EDCS II in a VAXcluster, whether the VAXcluster uses a cluster alias for EDCS II or not, you must install both a client and a server. For additional information about EDCS II configurations, see the *EDCS II Administrator's Guide*.

Because you can have separate server and client nodes as well as two different user interfaces, there are several possible EDCS II installations. Figure 1–1 shows all the possible EDCS II combinations. For example, 5. shows a client node only, with a DECforms interface. Note that for 10., 11. and 12., the assumption is that a client node has already been installed.

Figure 1–1: EDCS II Installation Combinations



The installation procedure asks if you want to install a client node only, a server node only, both, or just a user interface (DECwindows or DECforms). The installation procedure will then vary depending on your answer.

This guide has appendixes that contain sample logs of the following types of installations:

- Both client and server (Appendix A)
- Server only (Appendix B)
- Client only, including the DECwindows and DECforms menu interfaces (Appendix C)

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 you find your kit is damaged or if you find that parts of it are missing, contact your Digital representative.

1.1 Installation Procedure Requirements

The following sections discuss various requirements for installing EDCS II.

1.1.1 Software Required

Your system must have the following software installed before you install EDCS II Version 2.1:

1. VMS Version 5.3-2 or higher.
2. DECwindows (same version as VMS), if you want a DECwindows interface.
3. DECforms Version 1.2-26, if you want a DECforms interface.
4. DECnet (same version as VMS).
5. VAX Rdb/VMS Version 3.1B or higher (required for a server installation only). Please note that only the run-time license of VAX Rdb/VMS is required.

If you have questions about the required software, see the System Software Addendum (SSA).

1.1.2 Time Required

The time required to install EDCS II varies depending on the processor type, the disk space you have, and whether you are installing a client, a server, or both. The average time required for an EDCS II installation is 1 hour, but this time varies from 40 minutes to 2 hours.

If you run the Installation Verification Procedure (IVP), the installation requires an additional 5 minutes.

1.1.3 Privileges Required

To install EDCS II, log in to an account that has SETPRV or the following privileges:

- CMKRNL
- EXQUOTA
- SYSLCK
- SYSPRV
- WORLD

To run the IVP, you will need additional privileges. See Chapter 3 for more information.

EDCS II uses VMSINSTAL, the standard VMS installation procedure, for installation. Note that VMSINSTAL turns off BYPASS privilege at the start of the installation. See the *VMS Installation Guide* for more information about VMSINSTAL.

Digital recommends that you install EDCS II on a SYSTEM account with a SYSTEM UIC. If a SYSTEM account does not exist on the target system, create one using the Authorize utility.

1.1.4 Disk Space Required to Install EDCS II

Table 1–1 can help you determine if you have enough memory for your specific installation.

Table 1–1: Disk Space Required to Install EDCS II

Type of Installation	Blocks	Assumption
Client	13,000	No menu interface
Server	30,000	
Client and Server	36,000	No menu interface
Client and DECwindows	24,000	
Client and DECforms	33,000	
DECwindows	19,000	Client previously installed
DECforms	28,000	Client previously installed
Client/Server/DECforms/DECwindows	65,000	

In addition to the disk space shown in Table 1–1, if you plan to print the *EDCS II Reference Manual* in PostScript format at your site, add 5,000 blocks of required disk space. If you plan to print the *EDCS II Reference Manual* in text format, add 3,000 blocks required disk space. See the Associated Documents section for more information.

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

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

If you do not have enough free blocks of space to do a full installation (for example, server, client, and both menu interfaces or client and both menu interfaces), you can install EDCS II without a menu interface, then install the menu interface separately later. You can install the menu interface later because running EDCS II does not take as many blocks of space as installing it does.

VMSINSTAL operates in safety mode if enough free blocks are available. If a system failure occurs during installation, the system is still recoverable. If you do not have enough blocks, VMSINSTAL operates in an alternative mode that reduces peak use. If a system failure occurs in the alternative mode, files on the system disk can be corrupted, and the system disk may not be recoverable.

1.1.5 Disk Space Required to Operate EDCS II

After the installation, the disk space shown in Table 1–2 is required to operate EDCS II. These sizes are approximate; actual sizes may vary depending on the user's system environment, configuration, and software options selected.

NOTE

The database should not be installed on the system disk.

Table 1–2: Disk Space Required to Operate EDCS II

Type of Installation	Mbytes
Client only	6
DECforms only	8
DECwindows only	12
Client and Server with DECforms and DECwindows	16

NOTE

For 20 or more concurrent users connected to the server, at least 32 Mbytes is recommended. For 10 or more concurrent users on any one client, a minimum of 16 Mbytes is recommended.

1.1.6 System Parameter Values

The following sections describe:

- Minimum system parameter values required for EDCS II
- System parameter recommendations for larger systems with heavy usage
- Checking system parameter values
- Calculating the GBLPAGES and GBLSECTIONS system parameter values
- Changing system parameter values

1.1.6.1 Minimum System Parameter Values Required

Table 1–3 lists the minimum required system parameter values for the installation. Depending on the programs and applications running at your site, you may need higher values for some settings.

Table 1–3: Minimum Required System Parameters for EDCS II

System Parameter	Client	Server	Both
BALSETCNT[1]	n + 2	n + 3 + [3]	n + 5
CHANNELCNT[2]	2,000	N/A	2,000
GBLPAGES[1]	n + 3,500	n + 3,900	n + 6,200
GBLPAGFIL[1]	n + 3,500	n + 3,900	n + 6,200
GBLSECTIONS[1]	n + 23	n + 15	n + 30
MAXPROCCNT[1]	n + 2	n + 3 + [3]	n + 5
PROCSECTCNT	N/A	48	48
WSMAX	1,000	2,000	2,000

[1]The n variable refers to the system parameter values that are currently in use on your system. To install EDCS II, you must raise those values by the number indicated.

[2]Kitinstal does not check for this value, however this setting has been strongly recommended.

[3]The number of command processors in your system.

1.1.6.2 System Parameter Recommendations for Larger Systems with Heavy Usage

Table 1–4 lists the recommended system parameter values for larger systems with heavy usage, depending on the programs and applications running at your site. You should consider increasing these values if:

- Your system has 32 or more megabytes of main memory.
- The EDCS II users on your system will be using the /DELIVER qualifier (an I/O intensive activity).
- Your system has adequate memory to support the higher values.

See the *EDCS II Administrator's Guide* for more information about effective use of EDCS II on larger systems with heavy usage.

Table 1–4: Recommended System Parameters for Larger Systems with Heavy Usage

System Parameter	Client	Server	Both
WSMAX[1]	8,000	16,000	16,000
CHANNELCNT	2,000	N/A	2,000
LOCKIDTBL	N/A	10,000	10,000
PIOPAGES[2]	2,000	2,000	2,000

[1]For systems with 128 megabytes of main memory or more, these values can be higher.
[2]These values are recommended to avoid the "Dynamic Memory Exhausted" error.

The GBLPAGES and GBLPAGFIL setting may be increased according to specific usage needs. See the *EDCS II Administrator's Guide* for more information on calculating these settings.

1.1.6.3 Checking System Parameter Values

You can check the values for the system parameters by invoking the SYSGEN utility. However, for the system parameters GBLPAGES and GBLSECTIONS, you must perform other calculations as well, to assure correct minimum values. Section 1.1.6.4 contains information about these calculations.

To check the values of your system parameters, invoke the SYSGEN utility by entering the following command at the DCL prompt:

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

At the SYSGEN> prompt, enter the SHOW command to display the values of each system parameter. The following command displays the values for the WSMAX system parameter:

```
SYSGEN> SHOW WSMAX

Parameter Name  Current  Default  Minimum  Maximum  Unit   Dynamic
--------------  -------  -------  -------  -------  ----   -------
    WSMAX         8192     1024       60   100000  Pages
```

This shows you the ''Current'' (Current Allocated Maximum) value of the parameter. This current value should equal or exceed the value indicated in Table 1–3 for WSMAX.

You can also directly check the value of the PROCSECTCNT parameter using the SYSGEN utility.

For the GBLPAGFIL parameter you should increase the current value by the amounts indicated in Table 1–3 (depending on the type of installation you are doing), because you cannot check how many units of the GBLPAGFIL parameter are in use. However, you can check how many units of the GBLPAGES and GBLSECTIONS parameters are in use, as explained in Section 1.1.6.4.

To change the current values of system parameters, see Section 1.1.6.5.

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

For more information about the SYSGEN utility, see the *VMS System Management Volume 1B Setup* manual.

1.1.6.4 Calculating the GBLPAGES and GBLSECTIONS System Parameter Values

To set the correct values for the GBLPAGES and GBLSECTIONS parameters, you must know:

- The current value that is set for these parameters (this value can be changed)
- The number of parameter units already used on your system
- The number of parameter units required for the EDCS II installation

To calculate the correct values for these parameters, perform the following steps:

1. Run the VMS Install utility (INSTALL) by using the following DCL command:

   ```
   $ INSTALL LIST/GLOBAL/SUMMARY
   ```

   The INSTALL utility displays a summary of global sections used by your system, and the current number of unused global pages. For example:

   ```
                  Summary of Local Memory Global Sections

   258 Global Sections Used,  22580/3420 Global Pages Used/Unused
   ```

2. Check the global pages. Determine if the number of unused global pages is equal to or greater than the number specified in Table 1–3. If the number of unused pages is less than the number listed in the table, you must increase the value for GBLPAGES. To do this, see Section 1.1.6.5.

3. Note the amount shown for ''Global Sections Used''. Now, check the current maximum value of the GBLSECTIONS parameter by running the SYSGEN utility.

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

Parameter Name    Current   Default   Minimum   Maximum Unit  Dynamic
--------------    -------   -------   -------   ------- ----  -------
GBLSECTIONS           512       250        20      4095 Sections
```

4. Subtract the number of sections used (258) from the current amount allocated (512). If the difference is less than the number required in Table 1–3, you need to increase the value of the GBLSECTIONS parameter by at least the difference between the unused sections and the value as specified in Table 1–3. To do this, see Section 1.1.6.5.

1.1.6.5 Changing System Parameter Values

You can use either the SYSGEN utility or the AUTOGEN command procedure to change system parameters. However, the option used depends on how the system administrator generally handles system settings at your site. Using the wrong method could adversely affect your system setup.

For more information about the SYSGEN utility, see the *VMS System Management Volume 1B Setup* manual. For more information about the AUTOGEN command procedure, see the section entitled ''Guide to Setting up a VMS System'' in the *VMS System Management Volume 1A Setup* manual.

1.1.7 Network Parameter Values Required

The following sections describe how to check your network parameter values, and how to calculate and change your Maximum Links value.

1.1.7.1 Checking Network Parameter Values

You can check the values for the network parameters by invoking the NCP utility.

To invoke the NCP utility, enter the following command:

```
$ RUN SYS$SYSTEM:NCP
NCP>
```

Then, to display the values of the network parameters, enter the following command:

```
NCP>SHOW EXECUTOR CHARACTERISTICS

Node Volatile Characteristics as of 11-JUL-1989 12:19:29

Executor node = 21.125 (VOLTA)

Identification           = DECnet-VAX V5.4,  VMS T5.4-4FK
Management version       = V4.0.0
Incoming timer           = 45
Outgoing timer           = 60
Incoming Proxy           = Enabled
Outgoing Proxy           = Enabled
NSP version              = V4.1.0
Maximum links            = 32
Delay factor             = 80
Delay weight             = 5
Inactivity timer         = 60
Retransmit factor        = 10
Routing version          = V2.0.0
Type                     = nonrouting IV
Routing timer            = 600
Broadcast routing timer  = 180
Maximum address          = 1023
Maximum circuits         = 16
Maximum cost             = 1022
Maximum hops             = 30
Maximum visits           = 63
Maximum area             = 63
Max broadcast nonrouters = 64
Max broadcast routers    = 32
Maximum path splits      = 1
Area maximum cost        = 1022
Area maximum hops        = 30
Maximum buffers          = 100
Buffer size              = 576
Default access           = incoming and outgoing
Pipeline quota           = 10000
Alias maximum links      = 32
Path split policy        = Normal
Maximum Declared Objects = 31
```

Notice that the **Maximum links** value in this example is 32.

1.1.7.2 Calculating the Maximum Links Network Parameter Values

Table 1–5 shows how to calculate the number of links required.

Table 1–5: Number of Links Required

Links Required	Calculation
To a server	Each client requires two links to a server, plus the number of logged in users.
To a client	Client links must equal at least two, plus the number of logged in users, multiplied by the number of servers that the client connects to.
Commands which transfer files	One additional link while the transfer is in progress.

For Version 2.1, it is likely that the server will need to increase Maximum Links. For the client, it depends on how many logged in users there will be at any one time.

The above is true even on configurations where the client and server are on the same node.

The maximum value for Maximum Links is 960. The default value of Maximum Links is 32.

For more information about network parameters, see the *VMS Network Control Program Manual*.

1.1.7.3 Changing Network Parameters

The following command changes network parameters for Maximum Links to 64:

```
NCP> SET EXECUTOR MAXIMUM LINKS 64
```

To return to the DCL level, enter the following command:

```
NCP> EXIT
```

1.1.8 Minimum Process Quotas Required

The account you use to install EDCS II must have sufficient quotas to enable you to perform the installation. Table 1–6 summarizes the process quotas required to perform the installation.

Table 1–6: Minimum Process Quotas for EDCS II

Minimum Quota	Value
ENQLM	2000
FILLM	50

The SYSUAF.DAT file stores user account quotas. You use the VMS Authorize utility to verify and change user account quotas. Set your directory to SYS$SYSTEM, then run the Authorize utility:

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

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

```
UAF> SHOW SMITH
```

To change a quota, use the MODIFY command at the UAF> prompt. MODIFY has the following format:

```
UAF> MODIFY account-name /quota-name=nnnn
```

The following example changes the FILLM quota for the SMITH account, then exits from the Authorize utility:

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

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

For more information about modifying account quotas, see the ‘‘Authorize’’ section in the *VMS System Management Volume 3 Security* manual.

1.1.9 VMSINSTAL Notification of Requirements

When you invoke VMSINSTAL, it checks the following:

- Whether you have logged in to a privileged account
- Whether you have adequate SYSGEN quotas for installation
- Whether DECnet is up and running
- Whether any users have logged in to the system

If VMSINSTAL detects any problems during the installation, it notifies you of the problem 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.

See the *VMS Installation Guide* for more information regarding the VMSINSTAL procedure.

1.2 Shutting Down Previous EDCS Versions

Log in to the SYSTEM account.

If you have VAX EDCS Version 1.2 installed and running, shut down VAX EDCS. To do this, invoke the Utility Main Menu and select the Manage VAX EDCS menu. From this menu, shut down VAX EDCS and delete global sections. The *VAX EDCS Administrator's Guide* describes this further.

If you have EDCS II Version 2.0 installed and running, shut down EDCS II. To do this, enter the EDCS Management Utility (EMU) and use the Shutdown System command for the Server:

```
$ EMU
EDCS Utility> SHUTDOWN SYSTEM/SERVER
EDCS Utility> EXIT
```

If entered on a server, this command shuts down VAX EDCS on that server. If entered on a client, the command shuts down VAX EDCS on that client.

If both the server and client are on the same node, then you must enter this command twice, once for the client and once for the server, as follows:

```
$ EMU
EDCS Utility> SHUTDOWN SYSTEM/SERVER
EDCS Utility> SHUTDOWN SYSTEM/CLIENT
EDCS Utility> EXIT
```

You should also delete the global sections. In EMU, enter the following command:

```
$ EMU
EDCS Utility> DELETE SECTIONS
EDCS Utility> EXIT
```

See the *EDCS II Administrator's Guide* for information about these commands.

If you have a field test version of EDCS II Version 2.1 installed and running, shut down EDCS II. To do this, run the command procedure SYS$STARTUP:EDCS$SHUTDOWN.COM. This shuts down both the client and server software and automatically deletes all global sections. For more information, see the *EDCS II Administrator's Guide*.

1.3 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 on top of the operating system.

Use the backup procedures that have been established at your site. For details about performing a system disk backup, see the ''Backup'' section in the *VMS System Management Volume 2 Maintenance* manual.

1.4 Registering Your Software License

Before you install EDCS II, register your EDCS II software license. To do this, you must run the License Management Utility, which is a part of the License Management Facility (LMF). This utility prompts you for information about your license that you can find on the piece of paper entitled the Product Authorization Key (PAK). The PAK is shipped with the EDCS II product. Refer to the *VMS License Management Utility Manual* for more information.

During the installation, you are asked if you have registered and loaded the authorization key. If you have successfully run the License Management Utility, answer YES. If you have not, you can still complete the installation; however, you will not be able to run either the EDCS II software or the Installation Verification Procedure (IVP) until you run the License Management Utility.

1.5 Procedure for Converting a VAX EDCS Database

If you are converting to EDCS II from VAX EDCS, you must run a command procedure that converts a Version 1.1A or Version 1.2 database to a Version 2.1 database. You must convert your database because of differences in the EDCS II database relations, entity names, lists, attributes, and so forth.

See Appendix B of the *EDCS II Administrator's Guide* for more information about database conversion.

1.6 Gathering Information Before You Install

The following sections list information necessary for:

- All EDCS II installations
- Installing EDCS II as both server and client
- Installing EDCS II as a server only
- Installing EDCS II as a client only

1.6.1 Information Needed for All Installations

Check the following list before you start to install EDCS II. Make sure:

- You have a SYSTEM account with a SYSTEM UIC on the target system. If the SYSTEM account does not exist, create one with the Authorize utility.
- DECnet is up and running. Enter the following command:

  ```
  $ SHOW NETWORK
  ```

  VMS displays available network nodes if the network is up, or displays a message if the network is down.
- You have VMS Version 5.3-2 or higher installed on the target system.
- You have VAX Rdb/VMS Version 3.1B or higher installed on the target system if you are installing both a server and a client or only a server. To check that VAX Rdb/VMS is up and running, invoke RDO; then enter SHOW VERSION.

  ```
  $ RUN SYS$SYSTEM:RDO
  RDO> SHOW VERSION
  Current version of RDO is: Rdb/VMS 3.1B-0
  RDO> EXIT
  ```

- You have made a backup copy of your system disk and any previously installed VAX EDCS data files before you install EDCS II.
- Your system has enough free blocks on the system disk. See Section 1.1.4 for more information about disk space requirements. If you are creating a new database, make sure that there is enough space on the disk for the database files.
- Your system parameter value settings are adequate for your installation. See Section 1.1.6.1 for more information.
- Your network parameter value settings are adequate for your installation. See Section 1.1.7 for more information.
- The ENQLM limit is set to at least 2000 and the FILLM limit is set to at least 50.
- You know the name of the device on which the distribution kit will be mounted, in other words, the physical location of the EDCS II savesets EDCS021.A through EDCS021.H.
- You know the device on which the EDCS II database will reside. Make sure that the disk name for the server files is a device name or a logical name that does not have multiple definitions. Do not use process-rooted (concealed) logical names in the naming of devices, directories, or processes. Process-rooted (concealed) logicals do not work because EDCS II runs multiple processes as part of its system.

  Disk logical names can be no longer than 15 characters.

1.6.2 Information Needed for Installing EDCS II as Both Client and Server

Make sure that you have assembled the following information before you begin the installation. You will be asked:

- Whether you want to view the preinstallation text. This text contains important information condensed from the *EDCS II Installation Guide* for the first-time installer. You may bypass this information, however it is recommended for the first-time installer.
- Whether you want to copy the *EDCS II Reference Manual* to the SYS$HELP directory so you can print it after the installation.
- Whether you are installing a client, a server, or both.
- Whether you want to install the DECwindows interface.
- Whether you want to install the DECforms interface.
- The name of the EDCS II database.

- The number (X.Y) of the database. This number (both the first and second part) is currently arbitrary. The two parts can be whatever the user likes.
- The name of the disk used by the Notification Manager.
- The name of the disk where you want the EDCS II database to reside.
- The name of the disk where you want to install the data files.
- The name of the disk that the client will use for its temporary scratch area.
- Whether you want to create a new database.
- If you choose to create a database during the installation, you are also asked if you want to use the default locations for the database area and snapshot files. These files contain the actual data for the database files. They do not have to be on the same disk or in the same directory as the database root file, or as each other. You can achieve the best performance by spreading the files over the largest number of disks. You can, however, use the default locations for the files if you wish.
- The password for the Administrator and the Operator accounts.
- When EDCS II is installed the first time, you will be prompted for the User Identification Codes (UIC) for the EDCS II network (EDCSNET) and mail (EDCSMAIL) accounts, and the password for the EDCSMAIL account.

1.6.3 Information Needed for Installing EDCS II as a Server Only

Make sure that you have assembled the following information before you begin the installation. You will be asked:

- Whether you want to view the preinstallation text. This text contains important information condensed from the *EDCS II Installation Guide* for the first-time installer. You may bypass this information, however it is recommended for the first-time installer.
- Whether you want to copy the *EDCS II Reference Manual* to the SYS$HELP directory so you can print it after the installation.
- Whether you are installing a client, a server, or both.
- The name of the client node.
- The name of the EDCS II database.
- The number (X.Y) of the database. This number (both the first and second part) is currently arbitrary. The two parts can be whatever the user likes.

- The name of the disk used by the Notification Manager.
- The name of the disk where you want the EDCS II database to reside.
- The name of the disk where you want to install the data files.
- Whether you want to create a new database.
- If you choose to create a database during the installation, you are also asked if you want to use the default locations for the database area and snapshot files. These files contain the actual data for the database files. They do not have to be on the same disk or in the same directory as the database root file, or as each other. You can achieve the best performance by spreading the files over the largest number of disks. You can, however, use the default locations for the files if you wish.
- The password for the Administrator and the Operator accounts.
- When EDCS II is installed the first time, you will be prompted for the User Identification Codes (UIC) for the EDCS II network (EDCSNET) and mail (EDCSMAIL) accounts, and the password for the EDCSMAIL account.

1.6.4 Information Needed for Installing EDCS II as a Client Only

Make sure that you have assembled the following information before you begin the installation. You will be asked:

- Whether you want to view the preinstallation text. This text contains important information condensed from the *EDCS II Installation Guide* for the first-time installer. You may bypass this information, however it is recommended for the first-time installer.
- Whether you want to copy the *EDCS II Reference Manual* to the SYS$HELP directory so you can print it after the installation.
- Whether you are installing a client, a server, or both.
- Whether you want to install the DECwindows interface.
- Whether you want to install the DECforms interface.
- The name of the server node.
- The name of the EDCS II database.
- The number (X.Y) of the database. This number (both the first and second part) is currently arbitrary. The two parts can be whatever the user likes.
- The name of the disk that the client will use.
- The name of the disk where the EDCS II database will reside.

Chapter 2

Installing EDCS II

This chapter describes the installation procedure.

2.1 Installation Procedure

Log in to the SYSTEM account.

DECnet must be up and running during installation, so that the EDCS II startup procedure will work correctly.

The following procedure installs EDCS II. The defaults to all questions are in brackets [ ]. Press Return to accept the default.

```
$@SYS$UPDATE:VMSINSTAL EDCS021 SYS$UPDATE OPTIONS N
```

In the preceding example, the EDCS II software kit is located in the SYS$UPDATE directory. Substitute your own location, if different, for the one shown. The release notes option (OPTIONS N) has been included in the command line. For more information about reading the release notes, see Section 2.2.

The first part of the installation procedure describes preliminary requirements and considerations. Chapter 1 describes these preliminary requirements in more detail.

The appendixes shown in Table 2–1 contain sample installations.

Table 2–1: Sample Installation Logs

Appendix A	Installation of both client and server, including DECwindows and DECforms user interfaces
Appendix B	Installation of server only
Appendix C	Installation of client only

2.2 Reading the Online Release Notes

EDCS II provides online release notes. Digital recommends that you read the release notes before installing EDCS II to see if there are:

- Special installation considerations
- Omissions or errors in the documentation

To display, print, or copy the online release notes to the SYS$HELP directory, enter the OPTIONS N parameter on the installation command line. The installation procedure contains four release notes options, as follows. Choose one of these options; the default option is 2.

```
Release Notes Options:

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

* Select option [2]:
```

After EDCS II has been installed, the release notes are located in the file SYS$HELP:EDCS021.RELEASE_NOTES.

Online HELP also directs you to the release notes file. After the installation, you can enter the following command to review the release notes:

```
$HELP EDCS RELEASE_NOTES
```

2.3 Aborting the Installation

To abort the installation procedure at any time, press Ctrl/y. When you press Ctrl/y, the installation procedure deletes all files it has created up to that point and exits. You can then restart the installation.

2.4 Error Recovery

If errors occur during the installation itself or when the Installation Verification Procedure (IVP) is running, VMSINSTAL displays failure messages. For more information about the IVP, see Section 3.1. If the installation fails, the following message is displayed:

```
%VMSINSTAL-E-INSFAIL, The installation of EDCS II
has failed.
```

If the IVP fails, the following messages are displayed:

```
The EDCS II Installation Verification Procedure
failed.
%VMSINSTAL-E-IVPFAIL, The IVP for EDCS II has
failed.
```

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

- The prerequisite software version is incorrect.
- Quotas necessary for successful installation are insufficient.
- System parameter values for successful installation are insufficient.
- Disk space is insufficient.
- The VMS HELP library is currently in use.
- The product is not properly licensed.

If you receive a message about any of the preceding conditions, take action to resolve the problem. It is possible you will need to change a system parameter or increase an authorized quota value. See Section 1.1.6.1 for more information about parameters or Section 1.1.8 for more information about quota values.

Log out of VMS, then log back in and perform the installation procedure again. This helps to ensure a proper environment for VMSINSTAL.

Appendix D contains common VMSINSTAL errors and their solutions.

Chapter 3

After the Installation

This chapter describes procedures you can perform after EDCS II is installed.

3.1 Running the IVP After the Installation

The Installation Verification Procedure (IVP) verifies that software has been installed correctly on the designated system. The command procedure EDCS$IVP_CLIENT.COM (for the client), EDCS$IVP_SERVER.COM (for the server), or EDCS$IVP_BOTH.COM (for both the client and the server) is placed in the SYS$TEST directory during installation.

Because the EDCS II IVP involves starting EDCS II, the privileges required to start EDCS II are also required to run the IVP. These privileges are:

- CMKRNL
- SYSNAM
- DETACH
- SETPRV
- TMPMBX
- WORLD
- OPER
- EXQUOTA
- NETMBX
- PRMGBL

- SYSGBL
- SYSPRV
- SYSLCK

See the *EDCS II Administrator's Guide* for more information about privileges.

The EDCS II IVP can be run during or after the installation. If you request that the IVP be run during installation time, VMSINSTAL invokes the IVP after the EDCS II components have been moved to their target directories.

To run the IVP at any time other than during the installation, you must do one of the following two things:

- Shut down EDCS II, ensuring that all EDCS II processes exit successfully.
- Make sure that at least twice the number of the system parameters GBLPAGES (global pages) and GBLSECTIONS (global sections) are available compared to the number normally required for an EDCS II installation. Table 1–3 provides this parameter information.

Then use one of the following commands:

- For both the client and server, enter the following command:

```
$ @SYS$TEST:EDCS$IVP_BOTH.COM
```

- For the server only, enter the following command:

```
$ @SYS$TEST:EDCS$IVP_SERVER.COM
```

- For the client only, enter the following command:

```
$ @SYS$TEST:EDCS$IVP_CLIENT.COM
```

The IVP runs tests and displays success and error messages to indicate whether the installation was successful. The following example shows successful output of the IVP run on a client and server system.

```
$ @SYS$TEST:SYS$TEST:EDCS$IVP_BOTH.COM
-------------------------------------------------------------------------------
-                                                                             -
-                            THE EDCS II IVP                                  -
-                        Checking the RDMS_MONITOR                            -
-                                                                             -
-------------------------------------------------------------------------------
Rdb/VMS (RDMS_MONITOR) has been previously started
-------------------------------------------------------------------------------
-                                                                             -
-                          THE EDCS II IVP                                    -
-                          Starting EDCS II                                   -
-                                                                             -
-------------------------------------------------------------------------------
%DCL-I-SUPERSEDE, previous value of EDCS$LIBRARY has been superseded
-------------------------------------------------------------------------------
-                                                                             -
-                           THE EDCS II IVP                                   -
-                 Checking to see if EDCS II is running                       -
-                                                                             -
-------------------------------------------------------------------------------
-------------------------------------------------------------------------------
-                                                                             -
-                          THE EDCS II IVP                                    -
-                        Shutting down EDCS II.                               -
-                                                                             -
-------------------------------------------------------------------------------
   Processing CLIENT...
%EDCS-S-FASTSHUTDOWN, EDCS II is being shut down -- all outstanding requests are
 canceled
%EDCS-S-GBLDELETED, The global sections have been deleted

   Processing SERVER...
%EDCS-S-FASTSHUTDOWN, EDCS II is being shut down -- all outstanding requests are
 canceled
%EDCS-S-GBLDELETED, The global sections have been deleted

   Deinstalling images...
 Deinstallation done.
-------------------------------------------------------------------------------
-                                                                             -
-                  The EDCS II IVP HAS COMPLETED SUCCESSFULLY.                -
-                  All of the required processes are present.                 -
-                                                                             -
-------------------------------------------------------------------------------
```

After you run the IVP, restart EDCS II. See Section 3.4 for more information.

3.2 Editing Parameter Files

When you start up EDCS II, it reads parameter files that contain parameters that you can tune to fit your individual site's needs. A server parameter file exists for every EDCS II server. Likewise, a client parameter file exists for every EDCS II client.

Before you start up EDCS II, review the server and client parameter files and make sure that they contain accurate and complete information regarding your EDCS II configuration. You should review these files *before* you start up EDCS II, because any changes you make to the files do not take effect until the next startup of EDCS II. However, you can make changes to the parameter files at any time.

EDCS II enters information in the server and client parameter files according to data you provide during the installation procedure. When you install a server, information regarding one client that can access the server and its database is entered in the server parameter file. When you install a client, you enter information regarding one database that the client can access in the client parameter file.

If your configuration contains more than one database that the client can access, you must enter this additional database information in the client parameter file. Likewise, if your configuration has more than one client that can access the server and its database, you must enter this additional client information in the server parameter file.

See Chapter 3 of the *EDCS II Administrator's Guide* for more information about editing the parameter files.

3.3 Running EDCS II on a VAXcluster

When you install EDCS II in a VAXcluster, whether the VAXcluster uses a cluster alias for EDCS II or not, you must install both a client and a server.

For a VAXcluster that uses a cluster alias, this assumes that every node in the VAXcluster will be running EDCS II server and client software.

For a VAXcluster that does not use a cluster alias, this assumes that at least one node in the VAXcluster will be running EDCS II server and client software.

For more information, see the *EDCS II Administrator's Guide.*

3.4 Starting Up EDCS II

You can set things up so that EDCS II starts up automatically whenever VMS starts up. You can also start up EDCS II individually without having to start up VMS, if VMS is already running.

Chapter 3 of the *EDCS II Administrator's Guide* describes how to accomplish both forms of EDCS II startup.

3.5 Running Verify and Repair

If you have database files from a previous version of VAX EDCS, you should run the Verify Files, Verify Element, and Repair Element utilities after the EDCS II installation. This will ensure that database information is complete and consistent after the conversion from VAX EDCS to EDCS II.

See the *EDCS II Administrator's Guide* for information about how to run the Verify and Repair utilities. Appendix B of the *EDCS II Administrator's Guide* describes how to convert a VAX EDCS database to an EDCS II database.

Appendix A

Sample Installation of EDCS II as Both a Server and Client

```
$ @SYS$UPDATE:VMSINSTAL EDCS021 MUA0 OPTIONS n
 VAX/VMS Software Product Installation Procedure V5.3-2
It is 13-MAR-1991 at 14:30.  Enter a question mark (?) at any time for help.
%VMSINSTAL-W-ACTIVE, The following processes are still active:
        JONES
        SMITH
        JOHNSON
* Do you want to continue anyway [NO]? yes
* Are you satisfied with the backup of your system disk [YES]?

The following products will be processed:
  EDCS V2.1
 Beginning installation of EDCS V2.1 at 14:30

%VMSINSTAL-I-RESTORE, Restoring product save set A ...

    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]: 4
* Do you want to continue the installation [NO]? yes
%VMSINSTAL-I-RELMOVED , The product's release notes have been successfully
moved to SYS$HELP.

* Do you want to view preinstallation text guide [YES]? yes

******************************************************************************
 Before you continue with your installation of EDCS II Version 2.1, please
 read the following preinstallation information. This will help you install
 EDCS II successfully.
******************************************************************************

                            PREINSTALLATION INFORMATION
```

Before you install EDCS II Version 2.1, shut down previous versions of EDCS, and back up your system.

SHUTTING DOWN PREVIOUS VERSIONS OF EDCS

If you have VAX EDCS Version 1.2 installed and running, shut down VAX EDCS. To do this, invoke the Utility Main Menu and select the Manage VAX EDCS menu. From this menu, select Shut Down VAX EDCS and Delete Global Sections.

If you have EDCS II Version 2.0 or Version 2.1 installed and running, shut down EDCS II. To do this, run the SYS$STARTUP:EDCS$SHUTDOWN.COM command procedure. This shuts down both the client and server software, automatically deletes all global sections, and deinstalls the EDCS related images.

BACKING UP SYSTEM

At the beginning of the installation, VMSINSTAL asks if you have backed up your system disk. Digital recommends that you back up your system disk before installing any software on top of the operating system.

Use the backup procedures that have been established at your site. For details about performing a system disk backup, see the Backup section in the VMS System Management Volume 2 Maintenance manual.

ABORTING THE INSTALLATION

To abort the installation procedure at any time, press Ctrl/y. When you press Ctrl/y, the installation procedure deletes all files it has created up to that point and exits. You can then restart the installation.

FULLY UPGRADING YOUR SYSTEM

When installing EDCS II Version 2.1, be sure to fully upgrade your system. EDCS II Version 2.1 is incompatible with Version 2.0. Therefore, you can not run Version 2.0 on a client and Version 2.1 on a server, or vice versa.

CONVERTING VAX EDCS VERSION 1.2 TO EDCS II VERSION 2.1

If you are converting to EDCS II Version 2.1 from VAX EDCS, you must run a command procedure that converts a Version 1.1A or Version 1.2 database to a Version 2.1 database. You must convert your database because of differences in the EDCS II database relations, entity names, lists, attributes, and so forth.

If you are currently running Version 2.0, you do not have to convert your database.

See Appendix B of the EDCS Administrator’s Guide for the procedure on database conversion.

SOFTWARE REQUIRED

The following software must be installed on your system before you install EDCS II Version 2.1:

1. VMS Version 5.3-2 or higher.
2. DECwindows Version (same version as VMS), if you want a DECwindows interface.
3. DECforms Version 1.2-26, if you want a DECforms interface.
4. DECnet (same Version as VMS).
5. VAX Rdb/VMS Version 3.1B or higher (required for a server installation only). Please note that only the run-time license of VAX Rdb/VMS is required.

SYSTEM ACCOUNT RECOMMENDED FOR INSTALLATION

Digital recommends that you install EDCS II with a SYSTEM account and a SYSTEM UIC on the target system.

If the SYSTEM account does not exist, create one with the Authorize Utility.

TIME REQUIRED FOR INSTALLATION

Installation takes from 40 minutes to 2 hours.

PRIVILEGES REQUIRED TO INSTALL EDCS II

To install EDCS II, you must be logged in to an account that has SETPRV or the 5 following VMS privileges:

```
CMKRNL
EXQUOTA
SYSLCK
SYSPRV
WORLD
```

DISK SPACE REQUIRED TO INSTALL EDCS II

Check your disk space before installing EDCS II. To determine the number of free disk blocks on your system, enter the following:

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

The following table can help you determine if you have enough memory for your specific installation:

Type of Installation	Blocks	Assumption
Client	13,000	No menu interface
Server	30,000	
Server and Client	36,000	No menu interface
Client and DECwindows	24,000	
Client and DECforms	33,000	
DECwindows	19,000	Client previously installed
DECforms	28,000	Client previously installed
Client/Server/DECforms/ DECwindows	65,000	

In addition to the disk space shown in the preceding table, if you plan to print the EDCS II Reference Manual in PostScript format at your site, add 5,000 blocks to the required disk space. If you plan to print the EDCS II Reference Manual in text format, add 3,000 blocks to the required disk space.

For more information, see the EDCS II Installation Guide.

```
DISK SPACE REQUIRED TO OPERATE EDCS II
======================================
The following table shows recommended disk space to operate EDCS II after
installation.

Type of installation                              Mbytes
--------------------                              ------
Client only                                          6
DECforms                                             8
DECwindows                                          12
Server with Client and DECform and DECwindows       16

For more information, see the EDCS II Installation Guide.


SYSTEM AND NETWORK PARAMETER SETTINGS
=====================================
System and network parameters must be set for your type of installation.
Depending on the programs and applications running at your site, you may need
higher values for some settings.

For more information, see the EDCS II Installation Guide.

PROCESS QUOTAS REQUIRED
=======================
The account you use to install EDCS II must have enough process quotas to
let you install the product.  The following table shows the minimum process
quotas required:

            Minimum Quota          Value
            -------------          -----
              ENQLM                2000
              FILLM                  50

For more information, see the EDCS II Installation Guide.

REGISTERING YOUR SOFTWARE LICENSE
=================================
Before you install EDCS II, you should register your EDCS II software license.
To do this, you must run the License Management Utility, which is a part of the
License Management Facility (LMF).  This utility prompts you for information
about your license that you can find on the piece of paper entitled the Product
Authorization Key (PAK).  The PAK is shipped with the EDCS II product.

During the installation, you are asked if you have registered and loaded the
PAK.  If you have successfully run the LMF, answer YES.  If you have not
already done so, you can still complete the installation; however, you will
not be able to run either the EDCS II software or the Installation Verification
Procedure (IVP) until you run the License Management Utility.

CONFIGURING EDCS II TO ACHIEVE MAXIMUM PERFORMANCE
==================================================
Digital recommends that you create your database on a disk other than
the system disk.  Digital also recommends that you spread your files over the
largest number of disks possible.

The EDCS II database is connected directly to the server node.  The server
interfaces with the database to process user commands.  Each server node
can have only one database.  You may use multiple server nodes (one server
for each node) to create a multiple database (one database for each node)
configuration.
```

```
See the EDCS II Administrator's Guide for more information about configuring
EDCS II to maximize performance.

INSTALLATION VERIFICATION PROCEDURE (IVP)
=========================================
After you install EDCS II, it is recommended that you run IVP, which takes an
additional 10 minutes. You need the same privileges to run the IVP as to start
EDCS$START processes, as follows:

   CMKRNL               OPER
   SYSNAM               EXQUOTA
   DETACH               NETMBX
   SETPRV               PRMGBL
   TMPMBX               SYSGBL
   SYSPRV               WORLD
   SYSLCK

VIEWING AND PRINTING THE EDCS II REFERENCE MANUAL
=================================================
The EDCS II Reference Manual is provided in your installation kit in PostScript
(.ps) and ASCII (.txt) formats so that you can print it at your location.

To print the Reference Manual if you have a PostScript printer, specify this
file:
        SYS$HELP:EDCS021_REFERENCE_MANUAL.PS

To print the Reference Manual if you have a non-PostScript printer, specify
this file:

        SYS$HELP:EDCS021_REFERENCE_MANUAL.TXT

The rest of the EDCS II books are available in hardcopy.

The EDCS II documentation set, excluding the EDCS II Pocket Guide, is available
on CDROM for users who have DECwindows and Bookreader.

READING THE RELEASE NOTES
=========================
EDCS II provides online release notes.  To display, print, or copy the online
release notes to the SYS$HELP directory, enter the OPTIONS N parameter on the
installation command line.  In the following example, the EDCS II software kit
is located in SYS$UPDATE.  Substitute your own location, if different, for the
one shown.

$ SYS$UPDATE:VMSINSTAL EDCS021 SYS$UPDATE OPTIONS N

Soon after the installation begins, you are presented with four options so you
can choose to display, print, or copy the release notes to a file.

After EDCS II has been installed, the release notes are located in the file
SYS$HELP:EDCS021.RELEASE_NOTES.


Online HELP also directs you to the release notes file.  After the
installation, to review the release notes, enter the following:

 $ HELP EDCS RELEASE_NOTES

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

-                                                                             -
-      The Reference Manual is included with this kit in PostScript (.ps) and -
-      ASCII (.txt) formats. You can copy one or both to SYS$HELP and print it -
-      after the installation is completed.                                   -
```

```
   Copy Options:

         1. EDCS021_REFERENCE_MANUAL.PS (Requires additional 5,000 blocks)
         2. EDCS021_REFERENCE_MANUAL.TXT (Requires additional 3,000 blocks)
         3. Both 1 and 2  (Requires additional 8,000 blocks)
         4. None of the above

* Select option [4]: 1
* Do You want to continue with the installation [no]? yes
-                                                                              -
-      Digital Equipment Corporation. 1991. All Rights Reserved                -
-                                                                              -
```

You are next asked if you want to install a client node, a server node, both, or just a user interface (DECwindows or DECforms).

You are then notified of the different user interfaces that are available for use with EDCS. You are also notified which of the user interfaces you have the necessary software to install during this installation. The DCL command line interface will be installed, regardless of additional interfaces chosen at installation time.

You are then asked if you want to install the DECwindows interface, which is a menu interface that runs on workstations running DECwindows. You are also asked if you want to install the DECforms interface, which is a menu interface that runs on character cell (VT style) terminals.

Note that in order to install the DECwindows menu interface for EDCS II, the DECwindows software must already be installed. Likewise, in order to install the DECforms menu interface for EDCS II, the DECforms software must already be installed.

```
------------------------------------------------------------------------------
-                                                                            -
-   EDCS II may be installed on your VAX as a CLIENT node only (CLIENT), or  -
-   as a SERVER node only (SERVER), or as both a SERVER and a CLIENT node    -
-   (BOTH) on the same VAX.                                                  -
-                                                                            -
------------------------------------------------------------------------------

* Do you want to install EDCS II as a CLIENT node, SERVER node, BOTH, or just
an INTERFACE [CLIENT]: both

- EDCS II has three different user interfaces -
-  1. DCL command line (default interface)
-  2. DECwindows Menu interface for DECwindows devices
-  3. DECforms Menu interface for VT style devices
- Of these you have the necessary software to install:
-  1. DCL command line (default interface)
-  2. DECwindows Menu interface for DECwindows devices
-  3. DECforms Menu interface for VT style devices

* Do you want to install the DECwindows Interface [NO]? yes

* Do you want to install the DECforms Interface [NO]? yes

    Installing an EDCS II SERVER node


    Installing an EDCS II CLIENT node
```

```
-                                                                              -
    Next you are asked if you have registered your EDCS II software license. If
    you have successfully run the License Management Utility and registered and
    loaded your Product Authorization Key (PAK), answer YES. If you have not
    already done so, you can still complete the installation; however, you will
    not be able to run either the EDCS II software or the Installation
    Verification Procedure (IVP) until you run the License Management Utility.

Product:      EDCS-SERVER   Producer:     DEC        Version:      2.1
       Release Date: 01-JUL-1990
* Does this product have an authorization key registered and loaded? yes
Product:      EDCS-CLIENT        Producer:     DEC        Version:      2.1
       Release Date: 01-JUL-1990
* Does this product have an authorization key registered and loaded? yes

    You are asked if you want to purge files created by previous installations
    of EDCS II. The installation keeps the database but removes all executable
    images if they are located on the same disks on which this installation
    would place them.


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

-                                                                              -
- The following questions must be answered regardless of the type of EDCS II   -
- node being installed (i.e., CLIENT, SERVER, BOTH). The answers supplied will -
- be used to create the initialization file for either a CLIENT or SERVER.     -
- This file can be modified at any time after the installation.                -
-                                                                              -


    You are next asked the name of the EDCS II database (any name up to 15
    characters).


* Enter the name of the EDCS II database  [DEMO]: test


    You are now asked for the number of the database (X.Y). This number (both
    the first and second part) is arbitrary. The two parts can be whatever the
    user wants.  The default response is 1.1.

* Enter the number of the EDCS II database [1.1]:


    You are next asked for the name of the disk that the Notification Manager
    process will use.  This disk can be located on any system; the default is
    SYS$SYSDEVICE.

    You are also asked for the name of the disk where you want the EDCS II data
    base to reside and the name of the disk where you want the datafiles to
    reside.  The default response to all of these questions is SYS$SYSDEVICE.

* Enter the disk that will be used by the EDCS II Notification Manager
[SYS$SYSDEVICE]:

* What disk do you want to install the EDCS II database on [SYS$SYSDEVICE:]:


* What disk do you want the EDCS II datafiles on [SYS$SYSDEVICE:]:

    You are next asked the name of the disk that the client will use for its
    temporary scratch area, which does not take up much disk space. This disk
    can be located on any system; the default is SYS$SYSDEVICE.
```

```
* Enter the disk that will be used by the CLIENT [SYS$SYSDEVICE]:

    You are asked if you want to create a database at this time. Digital
    recommends that you create the database at this time. This merely sets up
    the database structures for you but does not fill the database with any
    data. If you answer YES or press Return, you are asked if you want to use
    the default locations for the database area and snapshot files.

    The database area and snapshot files contain the actual data for the
    database files. They do not have to be on the same disk or in the same
    directory as the database root file, or as each other. You can achieve the
    best performance by spreading the files over the largest number of disks.
    If you answer NO to this question, you will be prompted for the device for
    each of these files. You can, however, use the default locations for the
    files if you wish.

* Do you want to create an EDCS II database [YES]? yes

    You will be asked for the locations of the database area files and the
    database snapshot files. These files contain the actual data for the
    database files.  They do not have to be in the same directory or on
    the same disk as either the database root files, or the other area and
    snapshot files.  The best performance can be achieved by spreading the
    files over the largest number of disks. Press Carriage Return
    to default to the EDCS$DATABASE area.

    This command file will prompt you for locations for each of the
    following areas:

            ACCOUNT
            DEFAULT
            ENTITY
            GENERATION
            HISTORY
            RELATIONSHIPS
            REVIEW

The EDCS II database root file will be stored in
SYS$SYSDEVICE:[EDCS.TEST.DATABASE].

* Do you want to use the default for all of the database areas [YES]?

-------------------------------------------------------------------------------
-    You are next prompted to enter passwords which must contain 6 to 12      -
-    characters and cannot contain hyphens, spaces, or special characters.    -
-    Note that the passwords that you enter do not echo on the terminal       -
-    screen.                                                                  -
-    Then you are asked if you want to run the IVP after the installation.    -
-    Digital recommends that you run the IVP.                                 -
-                                                                             -
-    You are next asked for the User Identification Codes (UIC) for the EDCS  -
-    II network (EDCSNET), mail (EDCSMAIL) accounts, and password for EDCSMAIL-
-    account unless you have already established these accounts in a previous -
-    EDCS installation. The UIC numbers must be any valid unused, nonsystem   -
-    UICs, in brackets and separated by a comma. If the UIC numbers that you  -
-    enter are already assigned to someone else, you will be given the name   -
-    they are assigned to and you will be prompted for different numbers.     -
-    The password for EDCSMAIL account must contain 8 to 15 characters.       -
-------------------------------------------------------------------------------
```

```
* What is the password you want to use for the administrator's account:
edcs$admin

* Please reenter the administrator's account password for verification:
edcs$admin


* What is the password you want to use for the operator's account:
edcs$oper

* Please reenter the operator's account password for verification:
edcs$oper


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

* Enter the UIC (Octal) for the EDCSNET account: [100,330]
%EDCS-I-CHECK, Checking UAF...
UIC [100,330] is already assigned to user WALSH, please try again.

* Enter the UIC (Octal) for the EDCSNET account: [600,100]
%EDCS-I-CHECK, Checking UAF...
* Enter the UIC (Octal) for the EDCSMAIL account: [600,101]
%EDCS-I-CHECK, Checking UAF...

* What is the password you want to use for the EDCSMAIL account: edcs$mail

* Please reenter the EDCSMAIL account password for verification: edcs$mail


%EDCS-I-NOMORQUES,   You have answered  all required questions.

    You will next see that savesets B, C, D (if installing DECwindows), E (if
    installing DECforms), F, G and H (if you have selected COPY OPTIONS
    1, 2, or 3 to copy the Reference Manual at your site) have been restored.
    Saveset A was restored earlier in the installation.

------------------------------------------------------------------------------
%VMSINSTAL-I-RESTORE, Restoring product save set B ...
%VMSINSTAL-I-RESTORE, Restoring product save set C ...
%VMSINSTAL-I-RESTORE, Restoring product save set D ...
%VMSINSTAL-I-RESTORE, Restoring product save set E ...
%VMSINSTAL-I-RESTORE, Restoring product save set F ...
%VMSINSTAL-I-RESTORE, Restoring product save set G ...
%VMSINSTAL-I-RESTORE, Restoring product save set H ...
The EDCS II installation creates several  permanent directories and files.

-                                                                             -
-      This installation creates the directory structure for EDCS II.         -
-                                                                             -

%VMSINSTAL-I-ACCOUNT, This installation creates an ACCOUNT named EDCSNET.
%UAF-I-ADDMSG, user record successfully added
%UAF-I-RDBADDMSGU, identifier EDCSNET value: [000600,000100] added to rights
data base
%VMSINSTAL-I-ACCOUNT, This installation creates an ACCOUNT named EDCSMAIL.
%UAF-I-ADDMSG, user record successfully added
%UAF-I-RDBADDMSGU, identifier EDCSMAIL value: [000600,000101] added to rights
data base
 Creating the EDCS II Server directory structure on disk SYS$SYSDEVICE:.

%VMSINSTAL-I-SYSDIR, This product creates system disk directory
SYS$SYSDEVICE:[EDCS].
 Creating Notification directory SYS$SYSDEVICE:[EDCS]NOTIFICATION.DIR
```

```
%VMSINSTAL-I-SYSDIR, This product creates system disk directory
SYS$SYSDEVICE:[EDCS.NOTIFICATION].
%VMSINSTAL-I-SYSDIR, This product creates system disk directory
SYS$SYSDEVICE:[EDCS.DEMO].
%VMSINSTAL-I-SYSDIR, This product creates system disk directory
SYS$SYSDEVICE:[EDCS.DEMO.DATABASE].
%VMSINSTAL-I-SYSDIR, This product creates system disk directory
SYS$SYSDEVICE:[EDCS.DEMO.DATAFILE].
%VMSINSTAL-I-SYSDIR, This product creates system disk directory
SYS$SYSDEVICE:[EDCS.DEMO.SCRATCH].
%VMSINSTAL-I-SYSDIR, This product creates system disk directory
SYS$SYSDEVICE:[EDCS.DEMO.ARCHIVE].
%VMSINSTAL-I-SYSDIR, This product creates system disk directory
SYS$SYSDEVICE:[EDCS.DEMO.VERIFY].
 Creating the EDCS II Client directory structure on disk SYS$SYSDEVICE:.
%VMSINSTAL-I-SYSDIR, This product creates system disk directory
SYS$SYSDEVICE:[EDCS.SCRATCH].
Linking EDCS$MESSAGE (EDCS Message File)...
Linking EDCS$RTL_COMMON (Common RTL)...
Linking EDCS$RTL_CLIENT (Client RTL)...
Linking EDCS$RTL_DML (DML RTL)...
Linking EDCS$RTL_SERVER (Server RTL)...
Linking EDCS$RTL_UTIL (Server Utility RTL)...
Linking EDCS (User interface - Command Line)...
Linking EDCS$FTM (File Transfer Manager)...
Linking EDCS$CTRL (Client Controller)...
Linking EDCS$CMDPROC (Server Command Processor)...
Linking EDCS$MAIL (Mail Notification)...
Linking EDCS$NETDISP (Network Dispatcher)...
Linking EDCS$UTIL (Server EDCS Utility)...
Linking EDCS$CONVERT (V1.1 to V2.0 Conversion Utility)...
Linking EDCS$SEED_DB (Database Seed Utility)...
Linking EDCS$LOAD (EDCS Initializer)...
Linking FT CONVERT...
Linking EDCS$BATCHLOAD Utility...
Linking EDCS$SHOWFILE ...
Linking EDCS$DELETE_SECTIONS ...
-                                                                              -
-   This installation will now create the DATABASE for EDCS II.               -
-                                                                              -
importing :edcs.rbr'
*** Digital Internal Use Only ***
Exported by Rdb/VMS V3.1B-0 Export/Import utility
A component of Rdb/VMS V3.1B-0
Previous name was EDCS$DATABASE_DIR:EDCS.RDB
It was logically exported on 12-MAR-1991 21:39:28.27
Database NUMBER OF USERS is 50
Database NUMBER OF VAXCLUSTER NODES is 16
Database NUMBER OF DBR BUFFERS is 20
Database SNAPSHOT is ENABLED
Database SNAPSHOT is DEFERRED
Database BUFFER SIZE is 12 blocks
Database NUMBER OF BUFFERS is 20
Definition of STORAGE AREA RDB$SYSTEM overridden
Definition of STORAGE AREA ACCOUNT overridden
Definition of STORAGE AREA ENTITY overridden
Definition of STORAGE AREA GENERATION overridden
Definition of STORAGE AREA HISTORY overridden
Definition of STORAGE AREA RELATIONSHIPS overridden
```

```
Definition of STORAGE AREA REVIEW overridden
IMPORTing relation ACCOUNT
IMPORTing relation ATTRIBUTE
IMPORTing relation ATTRIBUTE_ASSOCIATION
IMPORTing relation COMMANDS
IMPORTing relation DEPENDENCY
IMPORTing relation ENTITY
IMPORTing relation GENERATION
IMPORTing relation GENERATION_REVIEW
IMPORTing relation HIERARCHY
IMPORTing relation HISTORY
IMPORTing relation HISTORY_QUAL
IMPORTing relation LIST_ASSOCIATION
IMPORTing relation LIST_ENTRY
IMPORTing relation LIST_HEADER
IMPORTing relation LOGIN
IMPORTing relation PATH
IMPORTing relation RESERVATIONS
IMPORTing relation REVIEW
IMPORTing relation SUBSTITUTE
IMPORTing relation SYSTEM
IMPORTing relation TEAM
IMPORTing view EDCS$SHOW_ENTITY_LIST_ENTRY
IMPORTing view EDCS$SHOW_ENTITY_LIST_HEAD
IMPORTing view EDCS$SHOW_LIST_HEAD
IMPORTing view EDCS$SHOW_LIST_ID
IMPORTing view EDCS$ACCOUNT
IMPORTing view EDCS$TEAM
IMPORTing view EDCS$SYSTEM
IMPORTing view EDCS$SUBSTITUTE
IMPORTing view EDCS$GROUP_REVIEW
IMPORTing view EDCS$ELEMENT_REVIEW
IMPORTing view EDCS$PATH
IMPORTing view EDCS$GROUP_MAIL_LIST
IMPORTing view EDCS$ELEMENT_MAIL_LIST
IMPORTing view EDCS$GROUP_ACCESS_LIST
IMPORTing view EDCS$ELEMENT_ACCESS_LIST
IMPORTing view EDCS$ACCOUNT_HISTORY
IMPORTing view EDCS$GROUP_HISTORY
IMPORTing view EDCS$ELEMENT_HISTORY
IMPORTing view EDCS$GROUP_CONTENTS
IMPORTing view EDCS$ENTITY_REVISION_ATTRIBUTES
IMPORTing view EDCS$ENTITY_REVISION
IMPORTing view EDCS$ENTITY_GENERATION
IMPORTing view EDCS$ENTITY_ATTRIBUTES
IMPORTing view EDCS$ENTITY
IMPORTing view EDCS$GROUP_DEPENDENCY
IMPORTing view EDCS$ELEMENT_DEPENDENCY
IMPORTing view EDCS$ARCHIVE
IMPORTing view EDCS$MAIL_LIST
IMPORTing view EDCS$ACCESS_LIST
IMPORTing view EDCS_VIEW
IMPORTing view HISTORY_USER_VIEW
IMPORTing view HISTORY_ELEMENT_VIEW
IMPORTing view HISTORY_PROJECT_VIEW
IMPORTing view EDCS_AUTHORIZATION_VIEW
IMPORTing view MAIL_USER_VIEW
IMPORTing view ELEMENT_APPROVAL_VIEW
```

```
IMPORTing view PROJECT_APPROVAL_VIEW
IMPORTing view ELEMENT_NOTIFY_VIEW
IMPORTing view PROJECT_NOTIFY_VIEW
IMPORTing view ELEMENT_ACCESS_VIEW
IMPORTing view PROJECT_ACCESS_VIEW
IMPORTing view GENERATION_VIEW
IMPORTing view ELEMENT_VIEW
IMPORTing view PROJECT_ELEMENT_VIEW
IMPORTing view PROJECT_INFO_VIEW
IMPORTing view EDCS_INFO_VIEW
IMPORTing view ARCHIVE_VIEW
*** Digital Internal Use Only ***
*** Digital Internal Use Only ***
Seeding the database with default values ...

E D C S E D C S E D C S E D C S E D C S E D C S E D C S E D C S E D C S E D C S
E D C S E D C S E D C S E D C S E D C S E D C S E D C S E D C S E D C S E D C S
E D C S                                                                 E D C S
E D C S              Database creation is complete.                     E D C S
E D C S                                                                 E D C S
E D C S E D C S E D C S E D C S E D C S E D C S E D C S E D C S E D C S E D C S
E D C S E D C S E D C S E D C S E D C S E D C S E D C S E D C S E D C S E D C S

%EDCS-I-DELETE, Deleting EDCS global sections...
%EDCS-I-DONE, Global Sections Deleted.

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

Beginning the EDCS II Installation Verification Procedure.
-                                                                             -
-                                                                             -
-    At the conclusion of the IVP the command procedure is placed into       -
-    SYS$TEST.  You can run the IVP command procedure at any time.            -
-                                                                             -
-                                                                             -
-------------------------------------------------------------------------------
-                                                                             -
-                           THE EDCS II IVP                                   -
-                      Checking the RDMS_MONITOR                              -
-                                                                             -
-------------------------------------------------------------------------------
Rdb/VMS (RDMS_MONITOR) has been previously started
-------------------------------------------------------------------------------
-                                                                             -
-                         THE EDCS II IVP                                     -
-                         Starting EDCS II                                    -
-                                                                             -
-------------------------------------------------------------------------------
%DCL-I-SUPERSEDE, previous value of EDCS$LIBRARY has been superseded
%DCL-I-SUPERSEDE, previous value of EDCS$CONFIG has been superseded
%DCL-I-SUPERSEDE, previous value of EDCS$RESTART has been superseded
%RUN-S-PROC_ID, identification of created process is 000001E8
%RUN-S-PROC_ID, identification of created process is 000004EA
%RUN-S-PROC_ID, identification of created process is 000004EB
%RUN-S-PROC_ID, identification of created process is 000004ED
%RUN-S-PROC_ID, identification of created process is 000002C2
%DCL-I-SUPERSEDE, previous value of EDCS$RESTART has been superseded
-------------------------------------------------------------------------------
-                                                                             -
-                          THE EDCS II IVP                                    -
```

```
-                Checking to see if EDCS II is running                         -
-                                                                              -
--------------------------------------------------------------------------------
--------------------------------------------------------------------------------
-                                                                              -
-                         THE EDCS II IVP                                      -
-                       Shutting down EDCS II.                                 -
-                                                                              -
--------------------------------------------------------------------------------
   Processing CLIENT...
%EDCS-S-FASTSHUTDOWN, EDCS II is being shut down -- all outstanding requests are
 canceled
%EDCS-S-GBLDELETED, The global sections have been deleted

   Processing SERVER...
%EDCS-S-FASTSHUTDOWN, EDCS II is being shut down -- all outstanding requests are
 canceled
%EDCS-S-GBLDELETED, The global sections have been deleted

   Deinstalling images...
 Deinstallation done.
--------------------------------------------------------------------------------
-                                                                              -
-                  The EDCS II IVP HAS COMPLETED SUCCESSFULLY.                 -
-                  All of the required processes are present.                  -
-                                                                              -
--------------------------------------------------------------------------------
```

Appendix B

Sample Installation of EDCS II as a Server

```
$ @SYS$UPDATE:VMSINSTAL EDCS021 MUA0: OPTIONS N
          VAX/VMS Software Product Installation Procedure V5.3-2

It is 15-MAR-1991 at 14:05.

Enter a question mark (?) at any time for help.
%VMSINSTAL-W-ACTIVE, The following processes are still active:

 JONES
        JOHNSON

* Do you want to continue anyway [NO]? y
* Are you satisfied with the backup of your system disk [YES]?

The following products will be processed:
  EDCS V2.1
 Beginning installation of EDCS V2.1 at 14:06

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

* Do you want to view preinstallation text guide [YES]? n

-                                                                        -
-      The Reference Manual is included with this kit in PostScript (.ps) and  -
-      ASCII (.txt) formats. You can copy one or both to SYS$HELP and print it -
-      after the installation is completed.                              -

   Copy Options:

         1. EDCS021_REFERENCE_MANUAL.PS (Requires additional 5,000 blocks)
         2. EDCS021_REFERENCE_MANUAL.TXT (Requires additional 3,000 blocks)
         3. Both 1 and 2  (Requires additional 8,000 blocks)
         4. None of the above

* Select option [4]: 1
* Do You want to continue with the installation [no]? y
-                                                                  -
-      Digital Equipment Corporation. 1991. All Rights Reserved    -
-                                                                  -
```

```
    You are next asked if you want to install a client node, a server node,
    both, or just a user interface (DECwindows or DECforms).

    You are then notified of the different user interfaces that are available
    for use with EDCS. You are also notified which of the user interfaces you
    have the necessary software to install during this installation. The DCL
    command line interface will be installed, regardless of additional
    interfaces chosen at installation time.

    You are then asked if you want to install the DECwindows interface, which
    is a menu interface that runs on workstations running DECwindows. You are
    also asked if you want to install the DECforms interface, which is a menu
    interface that runs on character cell (VT style) terminals.

    Note that in order to install the DECwindows menu interface for EDCS II,
    the DECwindows software must already be installed. Likewise, in order to
    install the DECforms menu interface for EDCS II, the DECforms software
    must already be installed.

------------------------------------------------------------------------------
-                                                                            -
-   EDCS II may be installed on your VAX as a CLIENT node only (CLIENT), or  -
-   as a SERVER node only (SERVER), or as both a SERVER and a CLIENT node    -
-   (BOTH) on the same VAX.                                                  -
-                                                                            -
------------------------------------------------------------------------------

* Do you want to install EDCS II as a CLIENT node, SERVER node, BOTH, or just
an INTERFACE [CLIENT]: server


    Installing an EDCS II SERVER node


-                                                                            -
    Next you are asked if you have registered your EDCS II software license. If
    you have successfully run the License Management Utility and registered and
    loaded your Product Authorization Key (PAK), answer YES. If you have not
    already done so, you can still complete the installation; however, you will
    not be able to run either the EDCS II software or the Installation
    Verification Procedure (IVP) until you run the License Management Utility.

Product:      EDCS-SERVER        Producer:     DEC        Version:      2.1
        Release Date: 01-JUL-1990

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

    You are asked if you want to purge files created by previous installations
    of EDCS II. The installation keeps the database but removes all executable
    images if they are located on the same disks on which this installation
    would place them.


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

-                                                                            -
- The following questions must be answered regardless of the type of EDCS II  -
- node being installed (i.e., CLIENT, SERVER, BOTH). The answers supplied will -
- be used to create the initialization file for either a CLIENT or SERVER.    -
- This file can be modified at any time after the installation.              -
-                                                                            -
```

```
    You are next asked the names of the EDCS II client node and database that
    the server will interface with. At this time you can only specify one client
    You can later modify the server parameter file to specify other clients.
    The default for the client node is the same as the node on which you are
    installing other servers and databases. The default for the server node is
    the same as the node on which you are installing.

* Enter the name of the EDCS II CLIENT node [IE0030]: ie0084

    You are next asked the name of the EDCS II database (any name up to 15
    characters).


* Enter the name of the EDCS II database  [DEMO]: example

    You are now asked for the number of the database (X.Y).  This number is
    arbitrary.  The first and second parts can be assigned to whatever the user
    wants. The default response is 1.1.

* Enter the number of the EDCS II database [1.1]:


    You are next asked for the name of the disk that the Notification Manager
    process will use.  This disk can be located on any system; the default is
    SYS$SYSDEVICE.

    You are also asked for the name of the disk where you want the EDCS II data
    base to reside and the name of the disk where you want the datafiles to
    reside.  The default response to all of these questions is SYS$SYSDEVICE.

* Enter the disk that will be used by the EDCS II Notification Manager
[SYS$SYSDEVICE]: dua9

 No such device as DUA9:

   Please reenter with a valid device


    You are next asked for the name of the disk that the Notification Manager
    process will use.  This disk can be located on any system; the default is
    SYS$SYSDEVICE.

    You are also asked for the name of the disk where you want the EDCS II data
    base to reside and the name of the disk where you want the datafiles to
    reside.  The default response to all of these questions is SYS$SYSDEVICE.

* Enter the disk that will be used by the EDCS II Notification Manager
[SYS$SYSDEVICE]: dua0

* What disk do you want to install the EDCS II database on [DUA0:]:

* What disk do you want the EDCS II datafiles on [DUA0:]:

    You are asked if you want to create a database at this time. Digital
    recommends that you create the database at this time. This merely sets up
    the database structures for you but does not fill the database with any
    data. If you answer YES or press Return, you are asked if you want to use
    the default locations for the database area and snapshot files.
```

```
    The database area and snapshot files contain the actual data for the
    database files. They do  not have to be on the same disk or in the same
    directory as the database root file, or as each other. You can achieve the
    best performance by spreading the files over the largest number of disks.
    If you answer NO to this question, you will be prompted for the device for
    each of these files. You can, however, use the default locations for the
    files if you wish.

* Do you want to create an EDCS II database [YES]? no
%EDCS-I-NODBFOUND, After installation, you must create database using
EDCS$INQUIRE_DATABASE Utility. The device and database name you assign must
match DUA0:[EDCS.EXAMPLE]


Account EDCSNET with UIC  [400,400] already exists

Account EDCSMAIL with UIC  [400,401] already exists

%EDCS-I-NOMORQUES,   You have answered  all required questions.

    You will next see that savesets B, D (if installing DECwindows), E
    (if installing DECforms), F, G, and H (if you have selected COPY
    OPTIONS 1, 2, or 3 to copy the Reference Manual at your site) have
    been restored. Saveset A was restored earlier in the installation,
    and saveset C is not restored during this procedure because it
    corresponds to a client installation.

%VMSINSTAL-I-RESTORE, Restoring product save set B ...
%VMSINSTAL-I-RESTORE, Restoring product save set F ...
%VMSINSTAL-I-RESTORE, Restoring product save set G ...
%VMSINSTAL-I-RESTORE, Restoring product save set H ...
The EDCS II installation creates several  permanent directories and files.

-                                                                           -
-      This installation creates the directory structure for EDCS II.       -
-                                                                           -

%UAF-I-MDFYMSG, user record(s) updated
%UAF-I-MDFYMSG, user record(s) updated
 Creating the EDCS II Server directory structure on disk DUA0:.
```

```
%VMSINSTAL-I-SYSDIR, This product creates system disk directory
DUA0:[EDCS.EXAMPLE].
%VMSINSTAL-I-SYSDIR, This product creates system disk directory
DUA0:[EDCS.EXAMPLE.DATABASE].
%VMSINSTAL-I-SYSDIR, This product creates system disk directory
DUA0:[EDCS.EXAMPLE.DATAFILE].
%VMSINSTAL-I-SYSDIR, This product creates system disk directory
DUA0:[EDCS.EXAMPLE.SCRATCH].
%VMSINSTAL-I-SYSDIR, This product creates system disk directory
DUA0:[EDCS.EXAMPLE.ARCHIVE].
%VMSINSTAL-I-SYSDIR, This product creates system disk directory
DUA0:[EDCS.EXAMPLE.VERIFY].
Linking EDCS$MESSAGE (EDCS Message File)...
Linking EDCS$RTL_COMMON (Common RTL)...
Linking EDCS$RTL_DML (DML RTL)...
Linking EDCS$RTL_SERVER (Server RTL)...
Linking EDCS$RTL_UTIL (Server Utility RTL)...
Linking EDCS$CMDPROC (Server Command Processor)...
Linking EDCS$MAIL (Mail Notification)...
Linking EDCS$NETDISP (Network Dispatcher)...
Linking EDCS$UTIL (Server EDCS Utility)...
Linking EDCS$CONVERT (V1.1 to V2.0 Conversion Utility)...
Linking EDCS$SEED_DB (Database Seed Utility)...
Linking EDCS$LOAD (EDCS Initializer)...
Linking FT CONVERT...
Linking EDCS$BATCHLOAD Utility...
Linking EDCS$SHOWFILE ...
Linking EDCS$DELETE_SECTIONS ...
-                                                                              -
- An EDCS II database will not be created during this installation.            -
- If you currently have a database that you want to save, there will be a      -
- command file provided on the server disk([EDCS]EDCS$CONVERT.COM).  This      -
- command file will convert your VAX EDCS V1.1 database to an EDCS II          -
- database                                                                     -
-                                                                              -

%EDCS-I-DELETE, Deleting EDCS global sections...
%EDCS-I-DONE, Global Sections Deleted.

%VMSINSTAL-I-MOVEFILES, Files will now be moved to their target directories...
 Installation of EDCS V2.1 completed at 14:27

 VMSINSTAL procedure done at 14:27
```

Appendix C

Sample Installation of EDCS II as a Client

```
$ @SYS$UPDATE:VMSINSTAL EDCS021 MUA0: OPTIONS S
 VAX/VMS Software Product Installation Procedure V5.3-2
It is 15-MAR-1991 at 13:31.
Enter a question mark (?) at any time for help.
* Are you satisfied with the backup of your system disk [YES]? y

The following products will be processed:
  EDCS V2.1
 Beginning installation of EDCS V2.1 at 13:32

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

* Do you want to view preinstallation text guide [YES]? n

-                                                                              -
-      The Reference Manual is included with this kit in PostScript (.ps) and  -
-      ASCII (.txt) formats. You can copy one or both to SYS$HELP and print it -
-      after the installation is completed.                                    -

   Copy Options:

         1. EDCS021_REFERENCE_MANUAL.PS (Requires additional 5,000 blocks)
         2. EDCS021_REFERENCE_MANUAL.TXT (Requires additional 3,000 blocks)
         3. Both 1 and 2  (Requires additional 8,000 blocks)
         4. None of the above

* Select option [4]: 2
* Do You want to continue with the installation [no]? y
-                                                                    -
-      Digital Equipment Corporation. 1991. All Rights Reserved      -
-                                                                    -
```

You are next asked if you want to install a client node, a server node, both, or just a user interface (DECwindows or DECforms).

You are then notified of the different user interfaces that are available for use with EDCS. You are also notified which of the user interfaces you have the necessary software to install during this installation. The DCL command line interface will be installed, regardless of additional interfaces chosen at installation time.

```
    You are then asked if you want to install the DECwindows interface, which
    is a menu interface that runs on workstations running DECwindows. You are
    also asked if you want to install the DECforms interface, which is a menu
    interface that runs on character cell (VT style) terminals.

    Note that in order to install the DECwindows menu interface for EDCS II,
    the DECwindows software must already be installed. Likewise, in order to
    install the DECforms menu interface for EDCS II, the DECforms software
    must already be installed.

------------------------------------------------------------------------------
-                                                                            -
-   EDCS II may be installed on your VAX as a CLIENT node only (CLIENT), or  -
-   as a SERVER node only (SERVER), or as both a SERVER and a CLIENT node    -
-   (BOTH) on the same VAX.                                                  -
-                                                                            -
------------------------------------------------------------------------------

* Do you want to install EDCS II as a CLIENT node, SERVER node, BOTH, or just
an INTERFACE [CLIENT]: client

- EDCS II has three different user interfaces -
-  1. DCL command line (default interface)
-  2. DECwindows Menu interface for DECwindows devices
-  3. DECforms Menu interface for VT style devices
- Of these you have the necessary software to install:
-  1. DCL command line (default interface)
-  2. DECwindows Menu interface for DECwindows devices
-  3. DECforms Menu interface for VT style devices

* Do you want to install the DECwindows Interface [NO]? no

* Do you want to install the DECforms Interface [NO]? yes

    Installing an EDCS II CLIENT node

-                                                                            -
    Next you are asked if you have registered your EDCS II software license. If
    you have successfully run the License Management Utility and registered and
    loaded your Product Authorization Key (PAK), answer YES. If you have not
    already done so, you can still complete the installation; however, you will
    not be able to run either the EDCS II software or the Installation
    Verification Procedure (IVP) until you run the License Management Utility.

Product:      EDCS-CLIENT        Producer:     DEC        Version:      2.1
      Release Date: 01-JUL-1990
* Does this product have an authorization key registered and loaded? yes

    You are asked if you want to purge files created by previous installations
    of EDCS II. The installation keeps the database but removes all executable
    images if they are located on the same disks on which this installation
    would place them.


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

-                                                                            -
- The following questions must be answered regardless of the type of EDCS II  -
- node being installed (i.e., CLIENT, SERVER, BOTH). The answers supplied will -
- be used to create the initialization file for either a CLIENT or SERVER.    -
- This file can be modified at any time after the installation.              -
-                                                                            -
```

```
    You are next asked the names of the EDCS II server node and database that
    the client will access. At this time you can only specify one server and
    one database. You can later modify the client parameter file to specify
    other servers and databases. The default for the server node is the same
    as the node on which you are installing.

* Enter the name of the EDCS II Server node [IE0086]: ie0084

    You are next asked the name of the EDCS II database (any name up to 15
    characters).

* Enter the name of the EDCS II database  [DEMO]:

    You are now asked for the number of the database (X.Y).  This number is
    arbitrary.  The first and second parts can be assigned to whatever the user
    wants. The default response is 1.1.

    You are also asked for the name of the disk that the client will use for its
    temporary scratch area, which does not take up much disk space.  This disk
    can be located on any system; the default is SYS$SYSDEVICE.

    You are also asked for the name of the disk where you want the EDCS II
    database to reside.  The default response is SYS$SYSDEVICE.

* Enter the number of the EDCS II database [1.1]:

* Enter the disk that will be used by the CLIENT [SYS$SYSDEVICE]: dua1

-                                                                              -
-      You will now be asked for the name of disk that the EDCS II database    -
-      will reside on.  Since this disk can be on another system, its          -
-      existence is not verified at this time.                                 -
-                                                                              -
* What disk does the EDCS II database reside on [SYS$SYSDEVICE]: dua3

%EDCS-I-NOMORQUES,   You have answered  all required questions.

    You will next see that savesets C, D (if installing DECwindows), E (if
    installing DECforms), F, G, and H (if you have selected COPY OPTIONS
    1, 2, or 3 to copy the Reference Manual at your site) have been restored.
    Saveset A was restored earlier in the installation, and saveset B is not
    restored  during this procedure because it corresponds to a server
    installation.

%VMSINSTAL-I-RESTORE, Restoring product save set C ...
%VMSINSTAL-I-RESTORE, Restoring product save set E ...
%VMSINSTAL-I-RESTORE, Restoring product save set F ...
%VMSINSTAL-I-RESTORE, Restoring product save set G ...
%VMSINSTAL-I-RESTORE, Restoring product save set H ...
The EDCS II installation creates several  permanent directories and files.

-                                                                              -
-      This installation creates the directory structure for EDCS II.          -
-                                                                              -
```

```
 Creating the EDCS II Client directory structure on disk DUA1:.
Linking EDCS$MESSAGE (EDCS Message File)...
Linking EDCS$RTL_COMMON (Common RTL)...
Linking EDCS$RTL_CLIENT (Client RTL)...
Linking EDCS$RTL_UTIL (Client Utility RTL)...
Linking EDCS (User interface - Command Line)...
Linking EDCS$FTM (File Transfer Manager)...
Linking EDCS$CTRL (Client Controller)...
Linking EDCS$UTIL (Client EDCS Utility)...
Linking EDCS$LOAD (EDCS Initializer)...
Linking EDCS$DELETE_SECTIONS ...
Linking EDCS (User interface - DECforms)...
Linking Forms Label Convert...
Linking Shareable Forms Files...

%EDCS-I-DELETE, Deleting EDCS global sections...
%EDCS-I-DONE, Global Sections Deleted.

%VMSINSTAL-I-MOVEFILES, Files will now be moved to their target directories...
 Installation of EDCS V2.1 completed at 14:22

 VMSINSTAL procedure done at 14:52
```

Appendix D

Solving Installation Errors

This appendix describes installation error messages and contains suggestions for handling problems.

If your intervention in correcting errors is not successful, or if the message so specifies, you should submit a Software Performance Report (SPR) to Digital Equipment Corporation. Please include as much detail as possible with the SPR, including the following:

- A complete description of the problem, including the software version number.
- The EDCS II log files: SYS$ERRORLOG:EDCS$CLIENT.LOG and SYS$ERRORLOG:EDCS$SERVER.LOG.
- The SYS$MANAGER:EDCS$PARAMETER_CLIENT.INI and SYS$MANAGER:EDCS$PARAMETER_SERVER.INI parameter files.
- If changes were made to the VAX Rdb/VMS database, please submit a list of the changes and a listing of the relations/views, indexes, and fields. Also, submit a display dump of the VAX Rdb/VMS header.
- The type and configuration of the environment.
- Any relevant listings of command files, linker maps, or data files.

If you find an error in the EDCS II documentation, fill out and submit the Reader's Comments form at the back of the document in which the error was found. Include the section and page number of the error.

The following are common VMSINSTAL errors that you can correct:

ERROR	This kit requires VMS Version 5.3-2 or subsequent version of VMS.
SOLUTION	Install VMS Version 5.3-2 before installing EDCS II.
WARNING	You do not have VAX Rdb/VMS Version 3.1B or later installed on your system.
SOLUTION	Install VAX Rdb/VMS Version 3.1B or later.
ERROR	System disk does not contain enough free space to install EDCS II.
SOLUTION	Make sure you have sufficient disk space on the system disk. Consult Section 1.1.4 for more information.
ERROR	Insufficient global pages/sections
SOLUTION	See Chapter 1 for instructions on how to increase global pages and sections.

Index

A

Account quotas
  modifying, 1–13
Authorize utility
  checking process quotas with, 1–13
  using to create SYSTEM account, 1–4
AUTOGEN
  changing parameters with, 1–10

B

Backing up system disk, 1–15
BALSETCNT parameter, 1–7
BYPASS privilege, 1–4

C

CHANNELCNT parameter, 1–7, 1–8
Client
  sample installation, C–1 to C–4
Client and server
  memory required to operate, 1–6
Client node, 1–1
  installing, 1–1
Client parameter files
  editing, 3–3
CMKRNL privilege, 1–4
Concealed logicals
  See also process-rooted logicals, 1–17
Concurrent users
  memory recommendation, 1–6
Configuration, 1–1
Conversion
  database, 1–16
Corruption
Corruption (Cont.)
  system disk, 1–5

D

Database
  area and snapshot files, 1–18, 1–19
  conversion before installation, 1–16
  creating during installation, 1–18, 1–19
  number, 1–17, 1–18, 1–19
  requirements before installation, 1–16
  verifying and repairing after VAX EDCS conversion, 3–5
DECforms
  memory required to operate, 1–6
  sample installation, A–1 to A–13
DECforms interface
  installing, 1–1
  version required, 1–3
DECnet
  version required, 1–3
DECnet network, 1–1
DECwindows
  memory required to operate, 1–6
  sample installation, A–1 to A–13
DECwindows interface
  installing, 1–1
  version required, 1–3
Definitions
  multiple in logicals, 1–17
Device name, 1–17
Disk logical names
  length, 1–17
Disk space
  error showing insufficient, 2–3
  required for installation, 1–4

Disk space (Cont.)
required to operate EDCS II, 1–6

E

EDCS II
definition, 1–1
EDCS II Version 2.0
shutting down before installation, 1–14
EDCS II Version 2.1
incompatibility with Version 2.0, 1–1
shutting down before installation, 1–15
EDCSMAIL account, 1–18, 1–19
EDCSNET account, 1–18, 1–19
ENQLM process quota, 1–13
Error messages, D–1 to D–2
Errors
recovering from, 2–3
solving installation, D–1
EXQUOTA privilege, 1–4

F

FILLM process quota, 1–13

G

GBLPAGES parameter, 1–7
GBLPAGFIL parameter, 1–7
GBLSECTIONS parameter, 1–7
Global pages
See also GBLPAGES, 1–9
Global sections
deleting before installation, 1–14
See also GBLSECTIONS, 1–9

I

INSTALL (VMS Install utility), 1–9
Installation
aborting, 2–2
checklist for, 1–16
database requirements, 1–16
disk space required for, 1–4
error recovery, 2–3
privileges required for, 1–4
procedure, 2–1 to 2–2
required software for, 1–3
sample of both server and client, A–1 to A–13
sample of client, C–1 to C–4
sample of server, B–1 to B–5
Installation (Cont.)
system disk backup, 1–15
time required for, 1–4
Installation Verification Procedure (IVP)
example, 3–2
running after installation, 3–1
time required for, 1–4
IVP
See Installation Verification Procedure
IVP privileges, 3–1

L

License
error showing lack of, 2–3
registering software, 1–15
License Management Utility
registering your license, 1–15
Links
calculation, 1–12
LMF (License Management Facility), 1–15
LOCKIDTBL parameter, 1–8
Logicals
concealed, 1–17

M

Maximum Links
calculation, 1–10, 1–12
MAXPROCCNT parameter, 1–7
Memory
required for installation, 1–4
required to operate EDCS II, 1–6
Memory recommendation
concurrent users, 1–6
Messages, D–2
Multiple database configuration, 1–1
Multiple definitions
of logicals, 1–17
Multiple server nodes, 1–1

N

Network links
calculation, 1–12
Network parameter values
how to change, 1–12
how to check, 1–10
Number of users
memory recommendation, 1–6

P

PAK
  See Product Authorization Key (PAK)
Parameter files
  editing, 3–3
Parameter values
  how to calculate, 1–9
  how to change, 1–10
  how to check, 1–8
  network, 1–10
  required for installation, 1–7
PIOPAGES parameter, 1–8
Previous versions
  shutting down, 1–14
Privileges
  required for installation, 1–4
  required to run IVP, 3–1
Process Quotas
  minimum required, 1–13
Process-rooted logicals
  caution about use in naming, 1–17
PROCSECTCNT parameter, 1–7
Product Authorization Key, 1–15
Product Authorization Key (PAK)
  obtaining license information, 1–15

Q

Quotas
  error showing insufficient, 2–3
  process, 1–13

R

Release notes
  reading and printing, 2–2
Repair Element utility
  running after VAX EDCS conversion, 3–5
Required software
  to install, 1–3
Run-time license
  VAX Rdb/VMS, 1–3

S

Server
  sample installation, B–1 to B–5
Server and client
  sample installation, A–1 to A–13
Server node, 1–1
Server node (Cont.)
  installing, 1–1
Server parameter files
  editing, 3–3
SETPRV privilege, 1–4
Shutting down EDCS II Version 2.0
  before installation, 1–14
Shutting down EDCS II Version 2.1
  before installation, 1–15
Shutting down VAX EDCS
  before installation, 1–14
Software
  error showing incorrect version, 2–3
  required to install, 1–3
Software license
  registering, 1–15
Software Performance Report (SPR), D–1
Start EDCS II privileges, 3–1
Starting up EDCS II, 3–4
SYSGEN parameters
  setting, 1–7
SYSGEN utility
  changing parameters with, 1–10
  checking parameters with, 1–8
SYSLCK privilege, 1–4
SYSPRV privilege, 1–4
SYSTEM account, 1–4
System disk
  backing up, 1–15
System disk corruption, 1–5
System parameters
  error showing insufficient, 2–3
System parameter values
  how to calculate, 1–9
  how to change, 1–10
  how to check, 1–8
  required for installation, 1–7

T

Time
  required for installation, 1–4

U

UIC, 1–4, 1–18, 1–19
Upgrading to Version 2.1
  caution about compatibility, 1–1
User account quotas, 1–13
User interface, 1–1
Users

Users (Cont.)
concurrent, 1–6

V

VAXcluster
running EDCS II on, 3–4
VAX EDCS
shutting down before installation, 1–14
VAX EDCS database
special requirements, 1–16
VAX Rdb/VMS
version required, 1–3
VAX Rdb/VMS database
special requirements, 1–16
Verify Element utility
running after VAX EDCS conversion, 3–5
Verify Files utility
running after VAX EDCS conversion, 3–5
VMS
version required, 1–3
VMS HELP library
error showing in use, 2–3
VMSINSTAL
notification of requirements, 1–14
safety mode, 1–5
VMS Install utility (INSTALL), 1–9
VMSINSTAL procedure, 1–4

W

WORLD privilege, 1–4
WSMAX parameter, 1–7, 1–8