Asian DEC DATATRIEVE Installation Guide and Release Notes

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This manual describes the installation procedure for Asian DEC DATATRIEVE Version 6.1.

All references to DEC DATATRIEVE refer to Asian DEC DATATRIEVE and all references to OpenVMS refer to Asian OpenVMS, unless otherwise specified.

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	OpenVMS AXP Version 1.5
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Preface

This manual describes how to install the DEC DATATRIEVE Version 6.1 software. This manual also describes how to use the DEC DATATRIEVE User Environment Test Packages (UETPs) and how to install the DEC DATATRIEVE computer- based training (CBT). This manual covers both DEC DATATRIEVE for OpenVMS AXP operating systems and DEC DATATRIEVE for OpenVMS VAX operating systems, which are referred to by their abbreviated name DEC DATATRIEVE.

Intended Audience

This manual is intended for persons responsible for installing and maintaining DEC DATATRIEVE software. To install the software, you should be familiar with VMSINSTAL, the command procedure used to install software products in the OpenVMS environment. For information on VMSINSTAL, see the OpenVMS documentation.

Operating System Information

Information about the versions of the operating system and related software that is compatible with this version of DEC DATATRIEVE is included in the DEC DATATRIEVE media kit, in either this manual or the DEC DATATRIEVE Before You Install Letter.

For information on the compatibility of other software products with this version of DEC DATATRIEVE, refer to Software Product Description (SPD). You can use the SPD to verify which versions of your operating system are compatible with this version of DEC DATATRIEVE.

Related Documents

For further information on the topics covered in this manual, you can refer to the following documentation:

- *DEC DATATRIEVE Release Notes*

  Describes corrections to software, restrictions, workarounds, and known problems for DEC DATATRIEVE Version 6.1.

- *DEC DATATRIEVE New Features Guide*
  Describes the new features of DEC DATATRIEVE Version 6.1.
- *VAX DATATRIEVE User's Guide*
  Describes how to use DEC DATATRIEVE interactively.
- *VAX DATATRIEVE Guide to Interfaces*
  Includes information on using DEC DATATRIEVE to manipulate data with forms, relational databases, and database management systems.
- *VAX DATATRIEVE Reference Manual*
  Contains reference information for DEC DATATRIEVE.
- *VAX DATATRIEVE Guide to Programming and Customizing*
  Explains how to use the DEC DATATRIEVE Call Interface. The manual also describes how to create user-defined keywords and user-defined functions to customize DEC DATATRIEVE and how to customize DEC DATATRIEVE help and message texts.

Conventions

In this manual, every use of OpenVMS VAX indicates the OpenVMS VAX operating system, every use of OpenVMS AXP indicates the OpenVMS AXP operating system, and every use of OpenVMS indicates both the OpenVMS VAX operating system and the OpenVMS AXP operating system.

The following conventions are also used in this manual:

[ ] (brackets)	Square brackets in the installation procedure enclose the default response value to a query.
... (horizontal ellipsis)	A horizontal ellipsis in an example means that information not directly related to the example has been omitted.
. .(vertical .ellipsis)	A vertical ellipsis in an example means that information not directly related to the example has been omitted.
Color	Use of second color in examples shows user input. For online version of this manual, user input is shown in bold.

References to Products

The DEC DATATRIEVE documentation to which this manual belongs often refers to products by their abbreviated names. Many of these names are in the process of changing to reflect their operating system platform, and thus may not be exactly correct.

- DEC DATATRIEVE refers to both DEC DATATRIEVE for OpenVMS AXP and DEC DATATRIEVE for OpenVMS VAX software.
- DEC Rdb refers to both DEC Rdb for OpenVMS AXP and DEC Rdb for OpenVMS VAX software.
- DEC DBMS refers to both DEC DBMS for OpenVMS AXP and DEC DBMS for OpenVMS VAX software.
- DEC FORTRAN refers to both DEC FORTRAN for OpenVMS AXP and DEC FORTRAN for OpenVMS VAX software.
- DEC C refers to both DEC C for OpenVMS AXP and DEC C for OpenVMS VAX software.
- DEC TPU refers to both DEC TPU for OpenVMS AXP and DEC TPU for OpenVMS VAX software.

This manual uses the term relational database or relational source to refer to all three of these products:

- VAX Rdb/ELN
- DEC Rdb
- VIDA

1 Preinstallation Considerations

This chapter includes important installation considerations that you must be aware of before you install DEC DATATRIEVE Version 6.1. Read this chapter carefully before you proceed to Chapter 2.

To prepare your system for installing DEC DATATRIEVE, you must perform the following tasks:

- Verify that your system has enough memory and available disk space to install and use DEC DATATRIEVE.
- Register the Product Authorization Key (PAK) that is shipped with this version of DEC DATATRIEVE.
- Verify that your system has the correct versions of the optional and required software you will be using with DEC DATATRIEVE.
- Check your system and the installing account to ensure that parameters and quotas are sufficient for installing and using DEC DATATRIEVE.

This chapter tells you what actions to take to prepare your system for installing DEC DATATRIEVE.

1.1 Prerequisite Hardware

Installing DEC DATATRIEVE requires a certain amount of free disk storage space during the installation. Once DEC DATATRIEVE is installed, less storage space is required.

The following table summarizes the storage requirements for OpenVMS VAX operating systems.

Kit	Blocks During Installation	Blocks After Installation
DEC DATATRIEVE Version 6.1	37,000	25,000

DEC DATATRIEVE runs on all VAX processors except the VAX- 11/725 processor.

The following table summarizes the storage requirements for OpenVMS AXP operating systems:

Kit	Blocks During Installation	Blocks After Installation
DEC DATATRIEVE Version 6.1	74,000	43,000

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

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

1.2 OpenVMS Licensing Management Facility (LMF)

This version of DEC DATATRIEVE supports the License Management Facility provided by OpenVMS. See the OpenVMS documentation for more information.

You should register the information contained in the Product Authorization Key (PAK) that is shipped with DEC DATATRIEVE before you begin the installation. You can register by using the License command procedure using the following command:

```
$ @SYS$UPDATE:VMSLICENSE
```

You can also use the LICENSE REGISTER command to register the information contained in the PAK. Both methods are described in the OpenVMS documentation.

DEC DATATRIEVE asks you early in the installation procedure whether or not you have registered and loaded an authorization key. You can install this version of DEC DATATRIEVE without the authorization key information, but you cannot run DEC DATATRIEVE or the Installation Verification Procedure (IVP).

1.3 Prerequisite Software

You must have the correct versions of the optional and required software products you will be using with DEC DATATRIEVE. Install those products in the order specified in Section 1.3.3.

1.3.1 Required Software Products

This version of DEC DATATRIEVE is a complete kit. You do not need any previous versions of DEC DATATRIEVE to install it.

On OpenVMS VAX operating systems, DEC DATATRIEVE Version 6.1 requires Version 5.5-2 or higher of the operating system. If you have a version lower than 5.5-2, you must install the OpenVMS VAX Version 5.5-2 operating system before you can install DEC DATATRIEVE. To check which version of the operating system is currently installed on your system, use the SHOW SYSTEM command at the DCL prompt.

On OpenVMS AXP operating systems, DEC DATATRIEVE Version 6.1 requires Version 1.5 of the operating system.

On OpenVMS VAX operating systems, you must have Version 5.0 or higher of CDD/Repository before you can install DEC DATATRIEVE.

On OpenVMS AXP operating systems, you must have Version 5.3 or higher of CDD/Repository before you can install DEC DATATRIEVE.

To check which version of CDD/Repository is currently installed on the system, use the following command:

```
$ DICTIONARY OPERATOR
```

The CDO banner gives the version of CDD/Repository currently installed on your system. For example:

```
Welcome to CDO V2.0
The CDD/Repository V5.0 User Interface
Type HELP for help
CDO>
```

1.3.2 Optional Software Products

The following optional products can be used along with DEC DATATRIEVE:

- DEC DBMS
- DEC Rdb/Asian Rdb
- VAX Rdb/ELN
- VAX TDMS
- DEC FMS/Asian FMS
- DECforms/Asian DECforms

- VIDA
- LSE
- CDA converter library
- DECwindows Motif

Note: if any Asian version of FMS, DECforms or Rdb is present on the system, then DEC DATATRIEVE will be linked with the Asian version instead of the English version.

On OpenVMS AXP operating systems VAX Rdb/ELN, VAX TDMS, and VIDA are not available.

Refer to the DEC DATATRIEVE Before You Install Letter to determine which versions of these optional software products are compatible with DEC DATATRIEVE Version 6.1.

If an optional product is on the system but is not the version required by DEC DATATRIEVE, the installation procedure will not install the User Environment Test Package (UETP) for that product. (Note that not all optional software products have a UETP.)

If you want to ready domains that reside on a remote node of a PDP–11 system, you must have Version 3.2 or higher of the DEC DATATRIEVE software installed on the remote node that you want to access.

1.3.3 Order of Product Installation

When you install required and optional software products with DEC DATATRIEVE, you should install these products in the following order:

- Optional LSE

  If you plan to use LSE with DEC DATATRIEVE, you should install LSE before installing other required or optional software products. However, if you choose to install LSE at a later date, the DEC DATATRIEVE installation procedure provides you with the option of performing a modified DEC DATATRIEVE installation to provide DEC DATATRIEVE support for LSE at that time.

- Optional DEC Rdb

  If you plan to use DEC Rdb with DEC DATATRIEVE, you should follow the order-of-installation instructions provided with CDD/Repository to insure the proper operation of CDD/Repository with DEC Rdb.

- CDD/Repository
- Optional forms products (VAX TDMS, FMS, DECforms)
- Optional database products (DEC DBMS, VAX Rdb/ELN,VIDA)

  Install DEC DBMS, VAX Rdb/ELN, and VIDA before installing DEC DATATRIEVE to make sure the installation includes sample databases and User Environment Test Packages. You do not have to install these optional database products before DEC DATATRIEVE to use the products with DEC DATATRIEVE.
- Optional CDA converter library
- Optional DECwindows Motif
- DEC DATATRIEVE

Note

DECforms, the CDA converter library, and DECwindows Motif can also be installed after DEC DATATRIEVE.

1.4 VAXcluster Consideration (VAX Only)

This installation procedure lets you install DEC DATATRIEVE only on a system-rooted device. Whether you are installing DEC DATATRIEVE on a VAXcluster or in a nonclustered environment, the installation procedure places the files that it generates in SYS$COMMON, not in SYS$SPECIFIC. The installation defines the logical name DTR$LIBRARY as SYS$COMMON:[DTR].

1.5 VMScluster Consideration

If you are using a dual-architecture (VAX and AXP systems) heterogeneous cluster, before executing these commands, make sure the appropriate logical names have been set to define the scope of the SYSMAN DO commands. For more information, see *OpenVMS System Manager's Manual*.

1.6 Preparing Your System and the Installing Account

This section tells you which characteristics of your system and installing account need to be checked before you install DEC DATATRIEVE. These characteristics include process quotas, access control privileges to CDD$TOP, and system parameters. Instructions are given for checking and modifying the relevant characteristics of your system and installing account.

1.6.1 Required Parameters

You must check that the value of your process quotas and system parameters are sufficient for installing DEC DATATRIEVE. You can check these values in the CDD/Repository documentation.

1.6.1.1 Global Pages (or pagelets) and Global Sections (GBLPAGES and GBLSECTIONS Parameters)

If you plan to install various DEC DATATRIEVE images as SHARED, you need sufficient global pages (on OpenVMS VAX systems) or pagelets (on OpenVMS AXP systems), and global sections. The installation procedure asks you about four images: DDMFxx, DTR32xx, DTRSHRxx, and DTRMSGS. (The xx at the end of the file name refers to the optional suffix that you can specify in the installation procedure. See Section 2.5.4 for more information.) You do not have to install all of these images; you need sufficient global pages and global sections only for those you do wish to install.

DEC DATATRIEVE automatically installs the DTRHELP image as SHARED. You need sufficient global pages and global sections for this image.

The following table indicates the requirements for the GBLPAGES and GBLSECTIONS parameters for the image files that are part of this version of DEC DATATRIEVE on OpenVMS VAX operating systems.

File	Global Sections	Global Pages
DDMFxx	2	143
DTR32xx	1	165
DTRSHRxx	6	1078

File	Global Sections	Global Pages
DTRMSGS	1	112
ADTRMSGS	1	112
DTRHELP	1	40
Total:	12	1650

The following table indicates the requirements for the GBLPAGES and GBLSECTIONS parameters for the image files that are part of this version of DEC DATATRIEVE on OpenVMS AXP operating systems.

File	Global Sections	Pagelets
DDMFxx	1	832
DTR32xx	1	887
DTRSHRxx	5	3553
DTRMSGS	1	112
ADTRMSGS	1	112
DTRHELP	1	49
Total:	10	5545

To find how many free global pages and global sections are available on your system, issue the following commands:

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

1.6.2 CDD/Repository Considerations

Before you install DEC DATATRIEVE, you should perform the following tasks:

- Check the contents of the dictionary directory CDD$TOP.DTR$LIB for user definitions and subdirecto- ries. Back these up if they exist.
- Make sure the installation account has all access privileges to CDD$TOP.

The next two sections explain these procedures.

1.6.2.1 Effect of Installation Procedure on Existing DTR$LIB Directory

The directory CDD$TOP.DTR$LIB is reserved for use by Digital. The installation procedure builds, or rebuilds, this directory each time you install DEC DATATRIEVE. The directory should contain only directories that contain definitions for the plots and sample domains, records, and tables that are shipped with the product. Users should not create any dictionary objects or directories that have DTR$LIB as part of their path names.

When the installation procedure rebuilds DTR$LIB, it deletes the existing DTR$LIB hierarchy. Therefore, you should check that DEC DATATRIEVE users have not placed their own definitions either in DTR$LIB or in any part of its substructure. Extract user definitions you want to save and redefine them in another directory.

1.6.2.2 Required Privileges to CDD$TOP

Because the installation procedure builds or rebuilds DTR$LIB, the installation account must have all access control privileges to CDD$TOP. You can check these privileges with the following command sequence:

```
$ RUN SYS$SYSTEM:DMU
DMU> SHOW PROTECTION CDD$TOP
```

The resulting privileges list should include the following:

CONTROL	GLOBAL_DELETE
DTR_EXTEND	HISTORY
DTR_MODIFY	LOCAL_DELETE
DTR_READ	PASS_THRU
DTR_WRITE	SEE
EXTEND	UPDATE
FORWARD	

After checking the privileges list, type EXIT and press the RETURN key to return to DCL command level.

If any of the required privileges are not available or if they are denied or banished, you must change the access control list (ACL) entry to provide all privileges for the duration of the installation. One way you can do this is to enter the following sequence of commands:

```
$ RUN SYS$SYSTEM:DMU
DMU> SET PROTECTION/GRANT=ALL/UIC=[1,4]-
DMU> /POSITION=1 CDD$TOP
DMU> EXIT
```

If you are using an account other than [1,4] for the installation, replace [1,4] with the UIC of that account.

After the installation procedure is complete, you can remove the ACL entry with the following command sequence:

```
$ RUN SYS$SYSTEM:DMU
DMU> DELETE/PROTECTION/POSITION=1 CDD$TOP
DMU> EXIT
```

For your convenience during future installations of DEC DATATRIEVE, you might want to create command files containing these two sequences of commands.

1.6.3 Effect of Installation Procedure on the Logical DTR$LIBRARY

The installation defines the logical DTR$LIBRARY as SYS$COMMON:[DTR]. If the installation fails, DTR$LIBRARY may be left deassigned, and you must redefine it. To redefine the logical, use the DEFINE command, as follows:

```
$ DEFINE/SYSTEM/EXEC DTR$LIBRARY SYS$COMMON:[DTR]
```

1.6.4 More than One Installation of this Version of DEC DATATRIEVE

You can install this version of DEC DATATRIEVE a number of times to produce different sets of images and files. Note, however, that you cannot install multiple versions of the product, such as both Version 6.0 and Version 6.1. For example, the installation procedure could be run first to install DEC DATATRIEVE Version 6.1 with VAX TDMS. You can install DEC DATATRIEVE Version 6.1 a second time to support FMS. (Note that DECforms is supported by default whenever available on the system.) The resulting images and file names are differentiated by a suffix added to the default names. The installation procedure prompts you to choose this suffix.

The suffix you specify will be given to the following files created during installation. The two letters xx at the end of a file name stand for the 1- to 26-character suffix you specify:

- SYS$SHARE:DTRSHRxx.EXE

- SYS$SYSTEM:DTR32xx.EXE
- SYS$SYSTEM:DDMFxx.COM
- SYS$SYSTEM:DDMFxx.EXE
- DTR$LIBRARY:DTRBLDxx.COM
- DTR$LIBRARY:DTRLIBxx.OLB
- DTR$LIBRARY:DTRFNDxx.MAR
- DTR$LIBRARY:DTRFNDxx.OBJ
- DTR$LIBRARY:DTRFUNxx.OLB
- SYS$STARTUP:DTRSTUPxx.COM
- VUE$LIBRARY:VUE$DTRxx.COM

Note that the installation procedure does not append the xx suffix to all images and files.

2 DEC DATATRIEVE Installation Procedure

Before you install DEC DATATRIEVE Version 6.1, make sure that your system meets all requirements listed in Chapter 1.

Your Version 6.1 installation kit consists of one magnetic tape or TK50. This medium makes obsolete the distribution media for any lower version of DEC DATATRIEVE.

DEC DATATRIEVE is also available on CDROM. If you are installing DEC DATATRIEVE from CDROM, follow the directions in the documentation packaged with the CDROM kit.

The installation procedure is described in the sections that follow. Note that as the procedure progresses, the installation command procedure sends questions to your screen to guide you through the installation process. The sections that follow explain these questions in detail.

On OpenVMS VAX operating systems, after you answer questions from the installation procedure, installation of DEC DATATRIEVE takes approximately 20 to 40 minutes.

On OpenVMS AXP operating systems, after you answer questions from the installation procedure, installation of DEC DATATRIEVE takes approximately 10 to 20 minutes.

2.1 Starting the Installation Procedure

To start the installation, invoke the VMSINSTAL command procedure from a privileged account. VMSINSTAL is in the SYS$UPDATE directory. Use the following format to invoke VMSINSTAL.

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

save-set-name

The name of the DEC DATATRIEVE save set you want to install:

On OpenVMS VAX operating systems, enter DTR061 to install DEC DATATRIEVE Version 6.1.

On OpenVMS AXP operating systems, enter DTRAXP061 to install DEC DATATRIEVE Version 6.1.

device-name

The name of the device on which you plan to mount the media. For example, MTA0: is the device name for a tape drive. It is not necessary to use the console drive for this installation. However, if you do use the console drive, you should replace any media you have removed once the installation is complete. If you are installing DEC DATATRIEVE from a CD, you must specify a device-name and a directory name. The directory name should be the same as the save set name.

OPTIONS N

An optional parameter that indicates you want to review the release notes questions (see Section 2.3 for more information).

The following example and the rest of this chapter show how to install DEC DATATRIEVE Version 6.1 for OpenVMS VAX from CDROM DKA400. This example uses the OPTIONS N release note parameter.

```
$ @SYS$UPDATE:VMSINSTAL DTR061 DKA400:[DTR061] OPTIONS N
```

If you do not supply any parameter, VMSINSTAL prompts you for the information later in the installation procedure.

Note that you can specify the AUTOANSWERBACK option when you invoke VMSINSTAL. This option creates the file SYS$UPDATE:DTR061.ANS, which contains the installation questions and your responses. This file can then be used in subsequent installations. (The OpenVMS documentation on software installation contains more information about VMSINSTAL.)

The AUTOANSWERBACK option is not recommended for DEC DATATRIEVE installations. Questions asked during the DEC DATATRIEVE installation are based on the system environment. The system environment at the time of the original installation determines which questions the installation procedure will ask. When you proceed with a subsequent installation, the questions change according to changes in the system environment. Thus, if you specify AUTOANSWERBACK during the original installation, you probably will not receive the appropriate questions during the subsequent installation.

The installation procedure prompts you for input at various times. Whenever you are prompted for input, you can type a question mark (?) symbol for help.

Most installation prompts include a default response in brackets. To enter the default bracketed response, you can either explicitly enter that response or press the RETURN key.

Before the installation procedure begins, VMSINSTAL checks if you are logged in to the system account. If not, you receive this warning message:

```
%VMSINSTAL-W-NOTSYSTEM, You are not logged in to the
system account.
```

In addition, before the installation procedure begins, VMSINSTAL checks for active processes on the system. If your DECnet network is running, you receive this warning message:

```
%VMSINSTAL-W-DECNET, Your DECnet network is up and running.
```

If there are still users on the system, you receive this warning message with a list of process names:

```
%VMSINSTAL-W-ACTIVE, The following processes are still active:

                          .
                          .
                          .
```

```
The list of the process names is followed by this
question:

* Do you want to continue anyway? [NO]

If you want to stop the installation process to allow all
users to exit the system, enter N or press the RETURN key.

At the start of the VMSINSTAL procedure, you need to
answer the following question:

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

After you have performed the necessary backup, enter Y or press the RETURN key. If you reply with N, the installation stops.

2.2 Mounting the Distribution Medium

You should now mount the first distribution volume on the device you have specified when you invoked VMSINSTAL.

VMSINSTAL displays the following message:

```
Please mount the first volume of the set on DKA400:

* Are you ready?

Type Y after you mount the distribution medium.
```

The installation procedure then checks if the following necessary conditions for the installation have been fulfilled:

- The target of the installation is SYS$COMMON on the system-rooted device.
- A compatible version of OpenVMS is installed.
- At least 37,000 blocks are available on the system disk (74,000 blocks are required if you install DEC DATATRIEVE on OpenVMS AXP systems).
- A compatible version of CDD/Repository is installed on the system.
- The installation procedure has ACL access rights to CDD$TOP.

If any of these conditions has not been fulfilled, the installation procedure displays a message describing the problem. After satisfying the requirement, you can rerun the installation procedure by invoking the command procedure VMSINSTAL again.

Note

Systems that do not have DECnet cannot support the DEC DATATRIEVE remote server. On such systems, the installation procedure next displays a message noting that it cannot define a DECnet object for the remote server. If you later install DECnet, you will then need to define a DECnet object for the remote server. See Section 3.5 for more information.

This ends the initial series of questions generated by VMSINSTAL. If you have successfully completed this portion of the installation, a message similar to the following is displayed:

```
The following products will be processed:
  DTR Version 6.1
    Beginning installation of DTR Version 6.1 at 8:15
VMSINSTAL-I-RESTORE, Restoring product saveset A...
```

The installation continues with questions about release notes.

2.3 Answering Questions About Release Notes

If you have specified the qualifier OPTIONS N at the beginning of the installation, the procedure offers these options regarding DEC DATATRIEVE Version 6.1 online release notes:

```
Release Notes Options:

1.  Display release notes
2.  Print release notes
3.  Both 1 and 2
4.  Do not display, print or copy release notes

* Select option [2]:
```

Enter the number corresponding to the option you choose. If you enter option 2 or 3, the procedure prompts you for the printer queue name. It then prints a message showing that the job has been queued for printing.

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

Job DTROXX (queue YOURSYS_DQS$PRINT, entry 1248) started on
YOURSYS_DQS$PRINT
```

The procedure now asks if you want to continue the installation.

```
*Do you want to continue the installation [N]?
```

If you want to continue, enter Y.

If you have selected one of the print options, you must wait until the release notes finish printing before you enter N or press the RETURN key. If you have not selected a print option and wish to exit, enter N or press the RETURN key.

2.4 Answering Questions About the Licensing Management Facility (LMF)

DEC DATATRIEVE Version 6.1 supports the License Management facility provided by OpenVMS. The installation procedure asks whether you have registered and loaded a Product Authorization Key (PAK) as required.

```
        Product:       DTR-UI-HANYU or DTR-USER-UI-HANYU
        Producer:      DEC
        Version:       Version 6.1
        Release Date:  30-APR-1993
* Does this product have an authorization key registered
and loaded?
```

Note: the product field will be "DTR-UI-HANYU or DTR-USER-UI-HANYU" for installation on OpenVMS/Hanyu, "DTR-UI-HANZI or DTR-USER-UI-HANZI" for installation on OpenVMS/Hanzi, and "DTR-UI-HANGUL or DTR-USER-UI-HANGUL" for installation on OpenVMS /Hangul.

If you answer Y or YES, the procedure continues. If you answer N or NO, you receive the following message:

```
You have not registered the LMF authorization key as required.
The DEC DATATRIEVE installation will continue.  However, you
cannot run the product until you register the license
authorization key.
```

When the DEC DATATRIEVE installation is completed, please register the authorization key using the following command:

```
$ @SYS$UPDATE:VMSLICENSE
```

The IVP cannot be run until the authorization key is registered. However, the IVP command file will be put in the same directory as the UETPs. Once you register the authorization key, you may run the IVP by entering DEC DATATRIEVE and issuing the following command:

```
@SYS$COMMON:[SYSTEST.DTR]DTR$IVP.COM
```

The installation continues with a series of DEC DATATRIEVE questions.

2.5 Answering Questions During the DEC DATATRIEVE Installation

The installation procedure asks you a number of questions concerning default installation, forms management products, multiple DEC DATATRIEVE installations, and DEC DATATRIEVE files. The following sections give examples of these questions.

2.5.1 Installing DEC DATATRIEVE with the Default Answers

The installation procedure now asks if you want to install DEC DATATRIEVE using default answers for all questions.

Note

While this question may simplify the installation procedure, it may not be appropriate for your situation. For example, if your system supports more than one installation of this version of DEC DATATRIEVE, you should not select the default installation option. Read the

summary of the default responses that follows the question before you choose this option.

The installation procedure prompts you with the following question:

```
*Do you want to use default answers for all questions [Yes]?
```

If you type Y, the DEC DATATRIEVE installation procedure automatically does the following:

- Performs a complete installation of DEC DATATRIEVE; it will not allow a partial installation to provide DEC DATATRIEVE support for LSE.
- Checks your system for a forms management product (FMS or VAX TDMS). If DEC DATATRIEVE does not find either of them, the automatic installation procedure provides support only for DECforms, if this is available on the system.

  If either FMS or VAX TDMS already exists on the system, DEC DATATRIEVE in addition to DECforms support:

  — Supplies FMS support, if only FMS is on the system

  — Supplies VAX TDMS support, if only VAX TDMS is on the system

  — Supplies VAX TDMS support, if both FMS and VAX TDMS are found on the system
- Does not prompt you for the unique 1- to 26-character suffix that identifies the DTR32xx.EXE image of this installation. Note that if you have already installed this version of DEC DATATRIEVE and have not supplied a suffix during that installation, you will need a suffix to differentiate the image of the previous installation from the image currently being installed. In such a case, the default installation procedure is not appropriate.
- Does not prompt you for the default image to be used with the DATATRIEVE DCL command and DCL help. The default image will be DTR32.
- Checks if the DEC DATATRIEVE remote server has been defined by a previous installation of DEC DATATRIEVE. The DEC DATATRIEVE remote server is called the Distributed Data Manipulation Facility (DDMF).

When the installation procedure checks for a previously defined DDMF:

- If there is no remote server or if the remote server is obsolete, the DDMF files from this installation become the remote server for DEC DATATRIEVE.
- If there is a current remote server already on the system, the default installation procedure uses that as the remote server for this installation of DEC DATATRIEVE.

- Copies the NEWUSER.COM file in DTR$LIBRARY.
- Checks the status of the DCL help for DEC DATATRIEVE. If DCL help is unavailable or out-of-date, DEC DATATRIEVE automatically updates DCL help.
- Installs DTRSHR.EXE, DTRMSGS.EXE, DTR32.EXE, and DDMF.EXE (if applicable) as SHARED.
- Installs DTRHELP as SHARED.
- Supplies the plot definitions for the current version.
- Does not supply the optional text and message files, sample programs, and callable programming aids that can be tailored at the installed site.
- Purges files replaced by this installation.

If you type N, the installation procedure continues with the questions about LSE.

2.5.2 Installing with LSE Support

To use LSE with DEC DATATRIEVE , LSE must already be installed and licensed on your system. If LSE is not already installed on your system, you see the following message on your screen:

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

The LSE Editor is not installed on your
system.  To have LSE support, you must:

    1.  Install the LSE Editor
    2.  Install or reinstall this product

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

* Do you want to continue the installation [No]?
```

If you enter Y or YES, the installation continues; however, you will not be able to use LSE with DEC DATATRIEVE. If you enter the default value by entering N, NO, or by pressing the RETURN key, the installation aborts, giving you the opportunity to install LSE on your system. Once LSE is installed, you can begin the DEC DATATRIEVE installation procedure from the beginning. If LSE is already installed on your system, you will be prompted with the following:

```
LSE is installed on your system.

You now have the following options:

1.  Do a complete DEC DATATRIEVE installation including
    DEC DATATRIEVE support for LSE.

2.  Do only DEC DATATRIEVE support for LSE without
    installing DEC DATATRIEVE.

3.  Do a DEC DATATRIEVE installation without including
    DEC DATATRIEVE support for LSE.

*  Select option [1]:
```

If you want to install a new version of DEC DATATRIEVE (including LSE support), select option 1. If you want only to provide DEC DATATRIEVE support for LSE (without installing a new version of DEC DATATRIEVE), select option 2. If you want to install a new version of DEC DATATRIEVE without LSE support, select option 3. If you select option 2, this installation will terminate after DEC DATATRIEVE support for LSE is provided.

2.5.3 Installing with Support for Forms Products

Each installation of DEC DATATRIEVE on a system can support two forms management products:

- DECforms
- FMS (Forms Management System) or VAX TDMS (Terminal Data Management System)

DECforms software is dynamically loaded at runtime and no specific operations are required at installation time. This means that DECforms, whenever installed on the system, is always available, while FMS and VAX TDMS are optional and mutually exclusive. You select DEC FMS or VAX TDMS at installation time.

A series of questions determines which product DEC DATATRIEVE will support for the image currently being installed.

The installation procedure checks which forms management products are on the system. If no forms products are found (or only lower versions of VAX TDMS or FMS not supported by DEC DATATRIEVE are found), the installation procedure displays the following message:

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

Neither FMS nor VAX TDMS product has been found
on this system. If desired, the installation may be
aborted at this point to install either FMS or
VAX TDMS. If the installation continues, DEC DATATRIEVE
will be built with DECforms support only.
The DECforms support will be automatically available,
provided that DECforms is installed and licensed by
the time DEC DATATRIEVE is invoked.

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

* Do you wish to continue with the installation [YES]?
```

If you type Y or press the RETURN key, the installation continues with the series of questions about more than one installation of this version of DEC DATATRIEVE. (See Section 2.5.4 for more information.)

If you type N, the installation aborts, giving you an opportunity to install a forms product on your system.

If one or more forms products are found, you receive a listing of the products on your system, followed by a message and question similar to the following:

```
    DEC DATATRIEVE can be built to support any one
    of these products, or, if desired, DEC DATATRIEVE
    can be built without support of any of these Forms
    Management products.

* Do you want DEC DATATRIEVE to support one of these
products [YES]?
```

If you do not want forms support, enter N. The installa- tion procedure resumes with questions on suffixes and more than one installation of this version of DEC DATATRIEVE.

If you do want forms support, enter Y or press the RETURN key. Then, for each forms product on the system, you are asked if you want DEC DATATRIEVE to support this forms product. Remember each installation of DEC DATATRIEVE can support only one forms product in addition to DECforms. After you enter Y to specify support for one forms product, you do not receive questions about the other forms products.

For example, if you have both VAX TDMS and FMS on the system, you receive the following question first:

```
* Do you wish to have VAX TDMS Forms Management support [YES]?
```

If you type Y or press the RETURN key, the DEC DATATRIEVE image being installed will support VAX TDMS. Then the installation procedure moves on to a series of questions on suffixes and more than one installation of this version of DEC DATATRIEVE.

If you type N, you receive a question about support for FMS.

If you type N after each question in the series, you receive the following message:

```
    There are neither FMS nor VAX TDMS Forms
    Management products on this system. If desired, the
    installation may be aborted at this point to install
    either FMS or VAX TDMS. If the installation
    continues, the questions pertaining to the selection of
    a Forms Management product will be asked again.

* Do you wish to continue with the installation [YES]?
```

If you type Y or press the RETURN key, you have another opportunity to answer questions about forms. If you type N, the installation procedure aborts.

2.5.4 Specifying Suffixes for More than One Installation of This Version of DEC DATATRIEVE

The installation procedure asks whether you intend to complete more than one installation of this version of DEC DATATRIEVE on your system, as follows:

```
  It is possible to do more than one installation of
  DEC DATATRIEVE.  More than one installation of a
  single version may be desirable for a number of reasons
  including:

      o  Use of multiple forms management products (such as
                        FMS and VAX TDMS; DECforms is available in
                        every image, if present on the system)

      o  Use of multiple foreign language translations of
                        DEC DATATRIEVE (such as French or German)

* Do you plan to install this version more than once [NO]?
```

If you type N or press the RETURN key, the installation procedure continues with questions about retaining DEC DATATRIEVE files. (See Section 3.4 for more information.) At a later date, you can decide to install DEC DATATRIEVE using file names other than the defaults by typing Y in response to the previous question.

If you type Y, the installation procedure displays messages requesting that you specify a suffix for the image you are installing and the default image for the DCL command DATATRIEVE.

The following message and question about the suffix are displayed:

```
    To differentiate the files and images produced by this
    installation from those produced by some other
    DEC DATATRIEVE installation, it is necessary to append a
    suffix to some of the file and image names. For each
    installation of this version of DEC DATATRIEVE, this suffix
    should be unique. This suffix can be 1 to 26 characters.

* What is the suffix you intend to use for this
installation [none]?
```

Only one set of DEC DATATRIEVE images and files can use the default file names that have no suffix. (See Section 1.6.4 for a list of these images and files.) If you install this version of DEC DATATRIEVE a second or subsequent time, you should identify the subsequent image and file names by a unique suffix. This step allows you later to identify which version of DEC DATATRIEVE you want to run.

For example, on the first run through the installation procedure, you could respond to the question about the suffix by pressing the RETURN key. The result is that each of the DEC DATATRIEVE file names includes no suffix. To run the image produced by this procedure, type:

```
$ DATATRIEVE
```

During the second or subsequent installation of this version of DEC DATATRIEVE, for example, you might use VAX TDMS as the forms product supported by this image. You could identify the files and images by responding with VAX TDMS for the suffix. To run the image produced by this procedure, type the following line:

```
$ DATATRIEVE/VARIANT=XX
```

For the remainder of this manual, the two letters xx at the end of a file name stand for the 1- to 26-character suffix you specify.

If you specify the same suffix for a later installation, the later image supersedes the previous image installed with the same suffix. If you choose to purge files during the installation, those earlier images will be deleted. See Section 2.5.9 for more information.

The following message and question are displayed:

```
    The DATATRIEVE DCL command allows you to choose which DTR32
    image to execute by means of the /VARIANT qualifier.  You
    may now choose an image to be executed by default, when the
    /VARIANT qualifier is not specified on the DATATRIEVE
    command. This default image will be the image referenced
    by DCL HELP.

DTR32, DTR32xx

* Which of the above images should be the default [DTR32xx]:
```

The installation procedure checks which DEC DATATRIEVE images are on the system. All existing image names, plus the name of the image you are currently installing, are listed. The current image name is provided as the default response to the question.

Only one DEC DATATRIEVE image can be chosen as the default for the DCL command DATATRIEVE. You must use the /VARIANT qualifier to invoke any other DEC DATATRIEVE image using the DCL command DATATRIEVE.

For example, on the first run through the installation procedure, you could respond to both the question about the suffix and the question about the DCL default by pressing the RETURN key. The result is that the image name is DTR32 and that image is the default when you invoke DEC DATATRIEVE using the DCL command DATATRIEVE as follows:

```
$DATATRIEVE
```

During the second or subsequent installation of this version of DEC DATATRIEVE, you might choose VAX TDMS as the suffix. You might then choose DTR32 as the default image name with the DCL command DATATRIEVE. You can use the DCL command DATATRIEVE to invoke the DTR32TDMS image as follows:

```
$DATATRIEVE/VARIANT=TDMS
```

If, however, you choose DTR32TDMS as the default with the DATATRIEVE DCL command, you must use the VARIANT qualifier to invoke the DTR32 image as follows:

```
$DATATRIEVE/VARIANT
```

2.5.5 Defining the DEC DATATRIEVE Remote Server

The installation procedure checks if the DEC DATATRIEVE remote server has been defined by previous installations of DEC DATATRIEVE. The remote server for DEC DATATRIEVE is called the Distributed Data Manipulation Facility (DDMF). Although there can be several shareable images of DEC DATATRIEVE installed on the same system, there can be only one remote server for each system.

Note

You do not receive the question discussed in this section if you are installing DEC DATATRIEVE on a OpenVMS system without DECnet. If you later install DECnet, you then need to define a DECnet object for the remote server. See Section 3.5 for more information on defining a DECnet object.

If no remote server has been defined previously or if a previously-defined remote server is obsolete, the DDMF files from this installation become the remote server for DEC DATATRIEVE on the system. You do not receive a question about the remote server, and the installation procedure continues with questions about the file for new users. See Section 2.5.6 for more information.

However, if an up-to-date remote server has already been defined (by a previous installation of this DEC DATATRIEVE release, for example), the installation procedure asks if the remote server established by the current installation should be the remote server for the system. The DECnet object number for DDMF is defined as 30 by the installation procedure. You receive the following question:

```
* Do you want DDMFxx.EXE to be used for distributed access [NO]?
```

Type Y if you want the remote server (DDMF) established by the current installation to be the remote server for your system. You might want to type Y if this image will contain options that users on remote systems need to access frequently, for example, user-defined functions that PDP–11 users need to access. In such cases, it is more efficient to make the remote server file for this image the remote server for your system.

Type N or press the RETURN key if these considerations do not apply to this installation of DEC DATATRIEVE.

2.5.6 Creating a DCL Command File for New Users

The installation procedure now copies the new user file, NEWUSER.COM, to DTR$LIBRARY. NEWUSER.COM helps new users get started with DEC DATATRIEVE by providing the necessary files to perform the examples in the DEC DATATRIEVE documentation set. Users can invoke the NEWUSER command file by entering:

```
$ @DTR$LIBRARY:NEWUSER
```

This procedure copies the DEC DATATRIEVE data files from DTR$LIBRARY to your directory and creates the DEC DATATRIEVE objects in your CDD/Repository dictionary.

2.5.7 Installing Shared Images

DEC DATATRIEVE runs most efficiently when all its executable images are installed as shareable images. The installation procedure lets you choose not to do so, however. The installation procedure prompts you with the following question. Note that the file SYS$STARTUP:DTRSTUPxx.COM is built according to your responses.

```
* Do you want DTRSHRxx.EXE and DTRMSGS.EXE to be installed
SHARED [YES]?
```

For best performance, the images DTRSHRxx.EXE and DTRMSGS.EXE should be installed as SHARED. Type Y or press the RETURN key if you want these images to be installed as SHARED.

The second question about shareable images refers to DTR32xx.EXE. For best performance, this should also be installed as SHARED.

```
* Do you want DTR32xx.EXE to be installed SHARED [YES]?
```

Type Y or press the RETURN key if you want this image to be installed SHARED.

For best performance in environments where you anticipate extensive use of the distributed features of DEC DATATRIEVE, the image DDMFxx.EXE should also be installed as SHARED. If the DDMF from this installation is to be the remote server, you receive the following question:

```
* Do you want DDMFxx.EXE to be installed SHARED [YES]?
```

Type Y or press the RETURN key if you want this image to be installed as SHARED.

Note

You do not receive the question about DDMFxx.EXE if you are installing DEC DATATRIEVE on a system that does not have DECnet. If you later install DECnet, see Section 3.5 for instructions on running the DDMFxx.EXE image as SHARED.

2.5.8 Installing Plot Definitions and Optional Material

The installation procedure continues with a question about plot definitions for DEC DATATRIEVE graphics. DEC DATATRIEVE contains graphics features you can use with a VT125, VT240, VT330, or VT340 terminal or on a workstation. To use these features, you must request plot definitions during installation.

Note

If this is your first installation of DEC DATATRIEVE since Version 3.4, you must answer Y to the following question. The plot definitions were modified with Version 4.0. Plot definitions provided with DEC DATATRIEVE installations prior to Version 4.0 are not compatible with DEC DATATRIEVE Version 6.1.

The following question is displayed:

```
* Do you wish to have the plot definitions [YES]?
```

Type Y or press the RETURN key if you want the installation procedure to include plot definitions. The plot definitions are installed in a CDD/Repository DMU dictionary, in CDD$TOP.DTR$LIB.PLOTS. They replace the plot definitions of lower versions.

The next question pertains to components of DEC DATATRIEVE that can be tailored at the installation site. This optional material includes Data Access Blocks files (used with Callable DEC DATATRIEVE), the DEC DATATRIEVE message file (necessary for customizing DEC DATATRIEVE messages), sample programs and the files necessary for creating and maintaining user-defined functions.

The following message and question are displayed:

```
    Some optional material is available with this kit including
    the components of DEC DATATRIEVE that can be tailored at
    the installed site.

* Do you want the optional material [NO]?
```

Type Y if you want this material. The installation procedure loads these files in DTR$LIBRARY. If you do not want this material, type N or press the RETURN key.

After you respond to this question, the installation procedure continues with a question about purging files replaced by the installation procedure.

2.5.9 Purging Files

The installation procedure continues with the following question:

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

If you wish, you can have all files that were created by this installation procedure purged in the various directories where they were created. No files are purged except those created in this installation. Type Y or press the RETURN key to purge the files.

2.5.10 Running the IVP

The last question regarding the installation concerns the IVP. You can choose whether to run the IVP after the installation or not. The following message is displayed:

```
    The DEC DATATRIEVE IVP will be put in the
    SYS$COMMON:[SYSTEST.DTR] directory. You may run the IVP
    immediately after the completion of the installation procedure
    answering YES to the next question or later issuing the
    following command:

    @SYS$COMMON:[SYSTEST.DTR]DTR$IVP.COM DTRxx.EXE

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

Note

The PAK must be registered before either the IVP or any of the UETPs can be run. If you answered no to the following question, the message about IVP will not be displayed and the IVP will not be run at this time:

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

2.6 Finishing the Installation

If you did not request the default installation, the following message is displayed:

```
All questions regarding the installation have now been asked.

The installation of DEC DATATRIEVE will now continue for
20 minutes to 40 minutes.
```

If the DTRFNDxx.MAR file provided by this installation is newer than an existing one, the installation procedure will display the following message:

```
An existing DTRFNDxx.MAR has been found
on the system, but its version does not
match the current level for this installation.
The existing DTRFNDxx.MAR and DTRFUNxx.OLB
have been respectively renamed to
DTR$LIBRARY:DTRFNDxx.OLD and
DTR$LIBRARY:DTRFUNxx.OLD.
```

See Section 3.6 for more information on maintaining user-defined functions.

During installation, you should receive the following message:

```
During the installation, a file called
DTRSTUPxx.COM has been added to SYS$STARTUP:
The site-dependent startup file, SYS$MANAGER:SYSTARTUP.COM,
should have the following line added:

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

Be sure to update SYS$MANAGER:SYSTARTUP.COM after installation.

On OpenVMS VAX systems Version 5.4 or earlier, the file SYSTARTUP.COM is called SYSTARTUP_V5.COM.

The installation procedure next displays information about User Environment Test Packages (UETPs). The installation provides up to five UETPs, depending on the optional products already on the system (VAX TDMS, FMS, DEC DBMS, DEC Rdb) and your responses to the questions about forms products and plots. Besides a general test of DEC DATATRIEVE, there are also UETPs for plots, forms, DEC Rdb, and DEC DBMS.

The installation displays a message showing how to invoke each UETP it provides:

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

DEC DATATRIEVE User Environment Test Packages (UETPs)
have been provided and can be run after the installation is
complete.  They are invoked from DEC DATATRIEVE as follows:

DTR> @sys$common:[systest.dtr]DTR         ! The general test
DTR> @sys$common:[systest.dtr]plots       ! The plots test
DTR> @sys$common:[systest.dtr]dbms        ! The DEC DBMS test
DTR> @sys$common:[systest.dtr]rdb         ! The DEC Rdb test
DTR> @sys$common:[systest.dtr]forms       ! The Forms test

Before invoking these files from a user's account you must
execute the procedure :

            @DTR$LIBRARY:NEWUSER.COM

This procedure loads the DEC DATATRIEVE definitions into the
user's dictionary and the data files in the user's directory.
This procedure must be executed by each user needing
the DEC DATATRIEVE examples.

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

The file type for the UETP files in the directory SYS$COMMON:[SYSTEST.DTR] is .DTR.

Chapter 4 discusses the test packages.

The installation procedure now runs the general IVP test and, if you have chosen to run the IVP after the installation, it displays the following message:

```
Executing IVP for:  DEC DATATRIEVE Version 6.1

Running the general IVP test...
    Test completed successfully

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

    DEC DATATRIEVE Version 6.1

    IVP COMPLETED SUCCESSFULLY

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

    IVP completed for:  DEC DATATRIEVE Version 6.1
```

When the installation procedure is finished, control returns to the command procedure VMSINSTAL.

3 Postinstallation Considerations

This chapter discusses some important postinstallation considerations concerning DECnet, relational databases, DEC DBMS databases and user-defined functions.

3.1 Updating SYS$MANAGER:SYSTARTUP.COM

During installation, a file called DTRSTUPxx.COM was added to SYS$STARTUP. Note that xx represents the 1- to 26- character suffix you specify during installation. After installation, you must update the site-dependent startup file SYS$MANAGER:SYSTARTUP.COM by adding the following line:

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

3.2 VAXcluster Considerations (VAX Only)

If you are installing DEC DATATRIEVE on a VAXcluster, the shareable image created by this installation of DEC DATATRIEVE is available only from the node where the installation is done. Therefore, after the installation is complete, you should repeat the following steps on each of the other nodes in the VAXcluster where DEC DATATRIEVE will be used:

1. Issue the LICENSE LOAD command to activate the OpenVMS license.
2. Execute the DEC DATATRIEVE startup command file as follows:

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

3. Install the new version of DCLTABLES.EXE that has been updated to include the DCL command DATATRIEVE. Install the file as follows:

   ```
   $ INSTALL
   INSTALL> REPLACE SYS$SHARE:DCLTABLES
   ```

The second step is not necessary if you plan to reboot the entire VAXcluster after the installation is complete.

3.3 Updating Process Command Tables

The DEC DATATRIEVE Version 6.1 installation creates a new version of DCLTABLES.EXE including the DCL command DATATRIEVE. To use the DCL command DATATRIEVE, users must log out of their processes and log back in to update their process command tables.

3.4 Online DEC DATATRIEVE Object Library

The installation keeps the library online in case it is necessary to relink a DEC DATATRIEVE image.

You may have to relink DEC DATATRIEVE if you:

- Add a user-defined function.
- Customize the text file DTRTEXT.MAR.
- Install or patch a new version of CDD/Repository. (Check the CDD/Repository documentation to see if relinking is necessary.)
- Install a new version of the OpenVMS Run-Time Library.
- Install a new version of FMS.

You may enter the following command to relink DEC DATATRIEVE:

```
$ @DTR$LIBRARY:DTRBLDxx
```

3.5 DECnet Considerations

This section describes what you need to do to run the DEC DATATRIEVE remote server if DECnet is installed after DEC DATATRIEVE on a OpenVMS system. It also describes how to create a default DECnet account for remote users of DEC DATATRIEVE on your system.

3.5.1 Defining a DECnet Object

DECnet is normally installed on a OpenVMS system. Unless you install DEC DATATRIEVE on a OpenVMS system without DECnet, the installation procedure automatically defines a DECnet object for the DEC DATATRIEVE remote server.

However, if you install DEC DATATRIEVE on a OpenVMS system that does not have DECnet, the installation procedure cannot use the DECnet Network Control Program (NCP) utility to define a DECnet object.

This section describes how to use NCP to define a DECnet object for the remote server if DECnet is installed on your system after DEC DATATRIEVE is installed.

The remote server for DEC DATATRIEVE is called the Distributed Data Manipulation Facility (DDMF). The installation procedure creates two files, DDMFxx.EXE and DDMFxx.COM, in SYS$SYSTEM. To define a DECnet object for DDMFxx.EXE and assign it an object number of 30, type the following commands:

```
$ NCP == "$NCP"
$ NCP DEFINE OBJECT DDMF NUMBER 30
$ NCP SET OBJECT DDMF NUMBER 30
$ NCP DEFINE OBJECT DDMF FILE DDMFxx.COM
$ NCP SET OBJECT DDMF FILE DDMFxx.COM
```

For best performance in environments where you anticipate extensive use of the distributed features of DEC DATATRIEVE, you should run the remote server as SHARED. To run the image DDMFxx.EXE as a SHARED image, edit the file SYS$STARTUP:DTRSTUPxx.COM. This file begins with the following lines:

```
!+
$!   DEC DATATRIEVE Start-up File
$!-
```

Check the file for the following line and add it if it is not already there:

```
$ DTR$INSTALL := $SYS$SYSTEM:INSTALL/COMMAND_MODE
```

You will see a dollar sign and the word exit at the end of the file. Enter the following text on the line above $ exit:

```
ADD/OPEN/SHARED SYS$SYSTEM:DDMFxx.EXE
```

3.5.2 Creating a Default DECnet Account for Distributed Access

The installation procedure defines a DECnet object called DDMF and assigns it the number 30. After the installation, you may want to create a default DECnet account, such as DTR$DECNET, for this DECnet object. Remote users can then omit the user name and password from the node specification when accessing domains on your node.

Note

This section applies to systems on which DECnet has been installed before DEC DATATRIEVE. If DEC DATATRIEVE is installed on a OpenVMS system that does not have DECnet, you cannot define a default DECnet account. If DECnet

is installed afterwards, you must define a DECnet object (see Section 3.5.1) before you can create a default DECnet account.

If you wish to set up such a default DECnet account for distributed access, follow these steps:

1. Add an entry to the user authorization file (UAF) on your system for DTR$DECNET. Specify the same file limits and quotas as you would for any other DEC DATATRIEVE user.
2. Invoke NCP to associate DDMF (known object 30) with the default DECnet account DTR$DECNET. Use the DEFINE OBJECT command in NCP to modify the object parameters for DDMF in the permanent database on your system.

You can use the following sample session as a model for your own system. Note that for security reasons, you should use a different password than the one provided. Also note that the UIC used in the sample session is used to illustrate the command; you should use a UIC that is appropriate for your system.

```
$ auth == "$authorize"
$ set default sys$system
$ auth
UAF>ADD DTR$DECNET/OWNER="DEC DATATRIEVE"
user record successfully added
UAF>MODIFY DTR$DECNET/PASSWORD=ANY_PASSWORD
user record(S) updated
UAF>MODIFY DTR$DECNET/DEVICE=SYS$SYSDEVICE/DIRECTORY=[DTR$DECNET]
user record(S) updated
UAF>MODIFY DTR$DECNET/UIC=[376,376]
user record(S) updated
UAF>MODIFY DTR$DECNET/FILLM=60/ENQLM=2000
user record(S) updated
UAF>MODIFY DTR$DECNET/WSDEFAULT=350/WSQUOTA=350
user record(S) updated
UAF>MODIFY DTR$DECNET/PRCLM=0
user record(S) updated
UAF>MODIFY DTR$DECNET/FLAGS=(DISCTLY, DEFCLI, LOCKPWD, CAPTIVE)
user record(S) updated
UAF>MODIFY DTR$DECNET/NOBATCH
user record(S) updated
UAF>SHOW DTR$DECNET
```

```
Username: DTR$DECNET             Owner:  DEC DATATRIEVE
Account:                         UIC:    [376,376] ([376,376])
CLI:      DCL                    Tables: DCLTABLES
Default:  SYS$SYSDEVICE:[DTR$DECNET]
LGICMD:   LOGIN
Login Flags: Disctly Defcli Lockpwd Captive
Primary days:   Mon Tue Wed Thu Fri
Secondary days:                      Sat Sun
Primary   000000000011111111112222  Secondary 000000000011111111112222
Day Hours 012345678901234567890123  Day Hours 012345678901234567890123
Network:  ##### Full access ######            ##### Full access ######
Batch:    -----  No access  ------            -----  No access  ------
Local:    ##### Full access ######            ##### Full access ######
Dialup:   ##### Full access ######            ##### Full access ######
Remote:   ##### Full access ######            ##### Full access ######
Expiration:            (none)    Pwdminimum:  6   Login Fails:  0
Pwdlifetime:        180 00:00    Pwdchange:      (pre-expired)
Last Login: (none) (interactive),       (none) (non-interactive)
Maxjobs:         0  Fillm:        60  Bytlm:        25000
Maxacctjobs:     0  Shrfillm:      0  Pbytlm:           0
Maxdetach:       0  BIOlm:        18  JTquota:       1024
Prclm:           0  DIOlm:        18  WSdef:          350
Prio:            4  ASTlm:        24  WSquo:          350
Queprio:         0  TQElm:        10  WSextent:      1000
CPU:        (none)  Enqlm:      2000  Pgflquo:      40000
Authorized Privileges:
  TMPMBX NETMBX
Default Privileges:
  TMPMBX NETMBX
```

```
UAF> EXIT
SYSUAF.DAT modified
$ CREATE/DIR/OWN = [376,376] SYS$SYSDEVICE:[DTR$DECNET]
$ ncp == "$ncp"
$ ncp
NCP> LIST OBJECT DDMF

Object Permanent Summary as of  01-OCT-1990 15:31:09

Object = DDMF

Number                    = 30
File id                   = DDMF.COM

NCP> DEFINE OBJECT DDMF USER DTR$DECNET PASSWORD ANY_PASSWORD
NCP> LIST OBJECT DDMF

Object Permanent Summary as of  01-OCT-1990 15:31:09

Object = DDMF

Number                    = 30
File id                   = DDMF.COM
User id                   = DTR$DECNET
Password                  = ANY_PASSWORD
```

```
NCP>SET KNOWN OBJECTS ALL
NCP>EXIT
$
```

For more information on NCP and DECnet, see *DECnet for OpenVMS Guide to Networking* and *DECnet for OpenVMS Networking Manual*.

As always, when working in a remote, or networking environment, follow the security guidelines described in the Guide to VMS System Security.

3.6 Maintaining User-Defined Functions

If this is your first installation of DEC DATATRIEVE since Version 4.1, and if your site maintains site-specific or user-defined functions, you should complete the following steps to re-enable user-defined functions.

After an initial installation of DEC DATATRIEVE Version 4.2 or higher, DEC DATATRIEVE will always use the DTRFNDxx.MAR and DTRFUNxx.OLB files that are on the system. You will no longer have to re-create and relink DEC DATATRIEVE as described in this section.

1 Transfer the user-defined function definitions from DTRFNDxx.OLD (renamed during installation) to DTRFNDxx.MAR. To do this, edit DTRFNDxx.MAR and add the appropriate definitions. (Merely renaming the old file does not enable user-defined functions in the file. They must be transferred to DTRFNDxx.MAR.)

2 Assemble DTRFNDxx.MAR with the MACRO command:

```
$ MACRO DTR$LIBRARY:DTRFNDxx.MAR
```

This command creates the object file DTRFNDxx.OBJ.

3 Replace the object module in the function library with the newly created object file:

```
$ LIBRARY/REPLACE DTR$LIBRARY:DTRFUNxx DTRFNDxx
```

4 Skip to the next step if the user-defined functions for your site consist only of calls to OpenVMS Run-Time Library routines. However, if your site has user-defined functions that call their own routines, there is an additional step before relinking DEC DATATRIEVE. The object files for those functions routines must be inserted into the new version of the function library.

There are two ways to do this:

- If the object files (.OBJ files) for the routines are still available, insert them directly into the function library:

```
$ LIBRARY/INSERT -
_$    DTR$LIBRARY:DTRFUNxx.OLB filename.OBJ
```

- If the object files for the routines are not available, extract the modules from the old function library before inserting them into the new:

```
$ LIBRARY/EXTRACT=module-name/OUTPUT=filename.OBJ -
_$    DTR$LIBRARY:DTRFUNxx.OLD
$ LIBRARY/INSERT -
_$    DTR$LIBRARY:DTRFUNxx.OLB filename.OBJ
```

5 Relink DEC DATATRIEVE:

```
$ @DTR$LIBRARY:DTRBLDxx
```

Note

If your site maintains no user-defined functions, you may choose to delete the .OLD files.

3.7 Deleting Unused Files for DEC DATATRIEVE DECwindows Support

If the DEC DATATRIEVE DECwindows interface is not required at your site, you can delete the following files after the DEC DATATRIEVE installation has successfully completed:

- SYS$COMMON:[SYSEXE]DTRHELP.EXE
- SYS$COMMON:[SYSHLP]DTRDECW$HELP.HLB
- SYS$COMMON:[SYSLIB]VAX_DATATRIEVE.UID
- SYS$COMMON:[DTR]REMOTE_DECTERM.COM

If you delete any of the DEC DATATRIEVE DECwindows files, ensure that you delete all of the listed files.

After the DEC DATATRIEVE DECwindows interface files are deleted, remove all references to these files from each of your SYS$STARTUP:DTRSTUPxx.COM files.

3.8 Getting Help and Reporting Problems

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

- If you have a Software Product Services Support Agreement, contact your Digital Customer Support Center (CSC), either by telephone or using the electronic means provided with your support agreement (such as DSNlink). The CSC provides telephone support for high-level advisory and remedial assistance. When you initially contact the CSC, please indicate the following:
  - — The name (e.g. OpenVMS AXP) and the version number of the operating system you are using.
  - — The product name (DEC DATATRIEVE) and the version number of DEC DATATRIEVE you are using.
  - — The hardware system you are using, such as a model number.
  - — A very brief description of the problem (one sentence if possible).
  - — How critical the problem is.

  When you submit information electronically or are speaking on the phone to the appropriate DEC DATATRIEVE support specialist, you can provide more detailed information. This includes the specific commands used to compile and link the program, the error messages displayed, and relevant detailed information (possibly including source program listings). Please attempt to narrow the cause of the problem to a specific module or lines of code.

  CSC personnel may ask for additional information, such as listings of any command files, INCLUDE files, relevant data files, and so forth. If the program is longer than 50 lines, submit a copy of it electronically or provide machine-readable media (floppy diskette or magnetic tape).
- If you have a Self-Maintenance Software Agreement, you can submit a Software Performance Report (SPR).
- If you do not have any type of software services support agreement and you have purchased DEC DATATRIEVE within one year, you can submit an SPR if you think the problem is caused by a software error.

When you submit an SPR, please take the following steps:

1. Describe as accurately as possible the circumstances and state of the system when the problem occurs. In the description, please provide:
   - — The version number of DEC DATATRIEVE being used.
   - — The name and version number of the operating system being used.
   - — A concise description of the problem with specific examples. Include any error messages displayed, the commands used to compile and link the program, and so on.
2. Reduce the problem to as small a size as possible.
3. Provide a listing of the program.
4. When you submit an SPR, remember to include listings of any command files, INCLUDE files, relevant data files, and so forth.
5. When you submit an SPR, if the program is longer than 50 lines, submit a copy of it on machine-readable media (floppy diskette or magnetic tape). If necessary, also submit a copy of the program library used to build the application.
6. Report only one problem per SPR. This will facilitate a faster response.
7. Mail the SPR package to Digital.

Many problem reports do not contain enough information to duplicate or identify the problem. Concise, complete information helps Digital give you accurate and timely service to software problems.

If the problem is related to DEC DATATRIEVE documentation:

- Depending on the severity of the problem, you can choose to report the problem to the CSC, if you have a Software Product Services Support agreement.
- You can fill out and mail a Reader's Comments form (located at the back of each manual). If appropriate, include the section and page number. Instead of using the Reader's Comments form, you can send your comments about DEC DATATRIEVE documentation to the following Internet address:

  ```
  datatrieve_docs@datatrieve.enet.dec.com
  ```

To obtain information about purchasing a Digital Software Product Services Support Agreement or other support services, please contact your local Digital sales representative.

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

4 Asian DEC Datatrieve V6.1 Release Notes

This chapter describes the Asian DEC Datatrieve V6.1 features. The features apply to Hanzi, Hanyu and Hangul character sets, unless otherwise specified.

For new features of the English version of DEC Datatrieve, refer to the product release note which is put in SYS$HELP during product installation time.

4.1 Asian DEC Datatrieve V6.1 Features

4.1.1 Single kit for Hanzi, Hanyu and Hangul

With the corresponding country PAK, users can invoke Asian DEC Datatrieve to perform Hanzi, Hanyu or Hangul data processing.

To invoke Asian DEC Datatrieve for a particular character set, users can:

— specify the character set in the command level, i.e.

```
$DATA/CHARCTER_SET={HANYU | HANZI | HANGUL | MCS}
```

— define the logical name DTR$CHAR_SET to the character set before invoking Asian DEC Datatrieve

Example:

To invoke Hanzi character set support:

```
$DEFINE DTR$CHAR_SET HANZI
$DATATRIEVE
```

or

To invoke Hanyu character set support:

```
$DEFINE DTR$CHAR_SET HANYU
$DATATRIEVE
```

— define SYS$LANGUAGE to the character set before invoking Asian DEC Datatrieve

Example:

To invoke Hangul character set support:

```
$DEFINE SYS$LANGUAGE KOREAN
$DATATRIEVE
```

or

To invoke MCS character set support:

```
$DEFINE SYS$LANAGUAGE ENGLISH
$DATATRIEVE
```

Any one of the three methods can start Asian DEC Datatrieve with a particular character set support.

4.1.2 Command Line Mode

Asian DEC DAtatrieve allows users to enter Asian language characters in command line mode. With this capability, users can enter English and Asian language characters in the following:

— character string data

— data field query header for report generation

— comment line for programmer documentation

4.1.3 Guide Mode

Asian DEC Datatrieve provides the novice users with a tutorial mode called Guide mode in which detailed instructions are given to guide users how to enter legitimate Datatrieve command.

Asian DEC Datatrieve provides Asian language instructions as well as English ones.

4.1.4 Application Design Tool

Asian DEC Datatrieve provides Asian language and English instructions to guide users creating database record definitions. Users can choose their preferred language.

Users can select the target language for their use by setting the HANZIGEN, HANYUGEN or HANGULGEN output device setting.

For example:

```
$RUN HSY$SYSTEM:HANZIGEN
HANZIGEN> SET OUTPUT/HANZI
HANZIGEN> EXIT
$DATATRIEVE
```

4.1.5 Asian language data processing

Asian DEC Datatrieve provides the following Asian language processing:

— allow users to enter, store, retrieve and modify fields with Asian language characters

— Asian data searching using EQUAL, STARTING and CONTAINING

— FN$UPCASE, FN$STR_LOC, FN$CREATE_LOG, FN$TRANS_LOC and FN$DELETE_LOG function calls

4.1.6 Report Generation

Asian DEC Datatrieve provides commands for users to generate nicely formatted report with Asian characters in the following:

- report main header
- field header
- field data

4.1.7 Asian language editor

Asian DEC Datatrieve allows users to integrate with Asian language editors, such as HEDT and HTPU, in command line mode to edit data definitions or procedure definitions.

4.1.8 Bilingual User Interface

Asian DEC Datatrieve provides Asian language as well as English error messages. Your Asian OpenVMS system determines the language of UI files to be installed, i.e. Asian OpenVMS/Hanyu system will have Hanyu version of Datatrieve help and error messages being installed.

4.1.9 Integation with other layered products

Asian DEC Datatrieve allows users to integrate with Asian OpenVMS layered products for application development and production environment. They include:

- Asian DECforms for OpenVMS VAX and AXP
- Asian DEC Rdb for OpenVMS VAX and AXP

- Asian FMS for OpenVMS VAX,
- HANGUL FMS for OpenVMS AXP

4.1.10 LMF Checking

Asian DEC Datatrieve is LMF compliant. You must register and load the Hanzi, Hanyu or Hangul UI PAK in order to start Asian DEC Datatrieve in your system.

To enable Hanzi, Hanyu and Hangul data processing in the same system, the following PAK are required:

- for Hanzi, DTR-UI-HANZI, or DTR-USER-UI-HANZI
- for Hanyu, DTR-UI-HANYU, or DTR-USER-UI-HANYU
- for Hangul, DTR-UI-HANGUL, or DTR-USER-UI-HANGUL

4.2 Change in Application Programming Interface

To allow for Hanzi, Hanyu and Hangul character supports in one single Asian DEC Datatrieve image, the DTR$INIT API has an additional parameter.

```
DTR$INIT( DAB             : REF $DCL_BLOCK (DAB),
          STACK_PAGES_REF,
          MSG_DESC        : REF BLOCK [,BYTE],
          AUX_DESC        : REF BLOCK [,BYTE],
          OPTIONS_REF,
          CSET_DESC       : REF BLOCK [,BYTE])
```

The 6th parameter, CSET_DESC, allows users to specify one of the following local character sets to be used in the subsequent DATATRIEVE session:

- MCS
- HANZI
- HANYU
- HANGUL

```
New Argument:
CSET_DESC
    data type: character string
    access   : read-only
    mechanism: by descriptor

New return status:

DTR$_ERRVMSSETUP: Asian OpenVMS is not set up properly.
```

4.3 Software Limitations

- Asian DEC Datatrieve does not check if the input and display device supports the desired character set. You should ensure that the correct device is used to input and display the target character set.
- Query_name in local characters is NOT supported. Although users may still successfully create query_name in some local characters, its usage is not recommended.
- If users receive the message %FORM-E-NOLAYOUT when poping out a DECforms form, they can issue the following command to reset the terminal before invoking Datatrieve,

```
$ set terminal /inquire
$ datatrieve
```

5 User Environment Test Packages

Five User Environment Test Packages (UETPs), which show examples and test product interfaces, are provided with DEC DATATRIEVE. You can run the UETPs after you install DEC DATATRIEVE. The following UETPs are provided with DEC DATATRIEVE:

- DEC DATATRIEVE
- DEC DATATRIEVE graphics capability
- DEC DATATRIEVE and DEC DBMS interface
- DEC DATATRIEVE and DEC Rdb interface
- DEC DATATRIEVE and FMS or VAX TDMS interface

VAX DATATRIEVE User's Guide includes the data definitions and procedures used in the UETPs.

Note

- **You must run the NEWUSER.COM file before running any UETP.**
- **You must run the DEC DATATRIEVE UETP before running any other UETP. The DEC DATATRIEVE UETP creates data definitions used by the other UETPs.**

5.1 Invoking DEC DATATRIEVE

To run the UETPs, you must first invoke DEC DATATRIEVE in one of the following ways:

- Use the DCL command DATATRIEVE, as follows:

  ```
  $ DATATRIEVE
  ```

  The DCL command DATATRIEVE is useful if you are working in a DECwindows environment. You should not run the UETPs using the DEC DATATRIEVE DECwindows interface, as you may get unexpected results. By using the DATATRIEVE command to invoke DEC DATATRIEVE, you can specify the /INTERFACE=CHARACTER_

CELL qualifier to invoke DEC DATATRIEVE without the DECwindows interface.

If you have installed more than one DEC DATATRIEVE image, you can specify the /VARIANT=image-suffix qualifier to run the image of DEC DATATRIEVE you want to test.

To invoke DEC DATATRIEVE using these qualifiers, enter the following command:

```
$ DATATRIEVE/INTERFACE=CHARACTER_CELL/VARIANT=xx
```

The characters xx represent the 1- to 26-character suffix added at installation to identify a particular image of DEC DATATRIEVE Version 6.1.

- Use the DCL command RUN as follows:

  ```
  $ RUN SYS$SYSTEM:DTR32xx.EXE
  ```

  The xx represents the 1- to 26-character optional suffix added to an image of DEC DATATRIEVE at installation.

- Use a symbol you have defined to represent the RUN command. For example:

  ```
  $ DTR32
  ```

At the DTR> prompt, enter the command to execute the UETP you want to run. The UETPs and the commands to invoke them are described in the following sections.

5.2 DEC DATATRIEVE UETP

To run the DEC DATATRIEVE UETP, invoke DEC DATATRIEVE as described in Section 4.1 and type the following command:

```
DTR> @SYS$COMMON:[SYSTEST.DTR]DTR
```

The DEC DATATRIEVE UETP is approximately 20 pages long, so the entire UETP is not repeated here.

You respond to prompts during the DEC DATATRIEVE UETP. The parts of the UETP that require a response are included here along with suggested responses. The responses you enter are printed in colored ink.

Note

The DEC DATATRIEVE UETP suggests at one point that you use LP: to print a report directly to a line printer. The

LP: option may not work unless LP is defined as the system printer.

```
!
! TEST STORE
!
! PLEASE SUPPLY THE FOLLOWING VALUES:
!    MANUFACTURER:       HINKLEY
!    MODEL:              BERMUDA 40
!    RIG:                YAWL
!  * LENGTH-OVER-ALL:    140
!    LENGTH-OVER-ALL:    40
!    DISPLACEMENT:       2000
!    BEAM:               12
!  * PRICE:              82000 AND XX/100
!    PRICE:              $82,000
!    CONFIRM:            N
!
! Values marked with "*" will generate an error and be reprompted
!
STORE YACHTS :VERIFY
Enter MANUFACTURER: HINKLEY
Enter MODEL: BERMUDA 40
Enter RIG: YAWL
Enter LENGTH_OVER_ALL: 140
Validation error for field LENGTH_OVER_ALL.
Re-enter LENGTH-OVER-ALL: 40
Enter DISPLACEMENT: 20000
Enter BEAM: 12
Enter PRICE: 82000 AND XX/100
Non-digit in string "82000 AND XX/100", ignoring character(S).
Re-enter PRICE: $82,000

                             LENGTH
                             OVER
MANUFACTURER   MODEL     RIG   ALL   WEIGHT BEAM  PRICE

 HINKLEY     BERMUDA 40 YAWL   40    20,000  12  $82,000
DISPLAY: IF RECORD IS OK, CONFIRM WITH Y
Enter CONFIRM: N

!
! Invoke report (suggest  TT:  as output file)
!
:LOA-REPORT
Enter FILE: TT
```

At this point, a report is displayed on the screen. When the report finishes, the UETP continues:

```
!
! Invoke report (suggest  LP:  as output file)
!
:LOA-REPORT
Enter FILE: LP:
```

At this point, the procedure sends a report to the line printer and the UETP continues:

```
READY YACHTS MODIFY
!
! RESPOND WITH 47 (or any two digit value)
!
MODIFY BEAM
Enter BEAM: 47
PRINT TYPE,BEAM
MANUFACTURER   MODEL    BEAM

METALMAST   GALAXY      47
!
! RESPOND WITH 48 (or any two digit value)
!
MODIFY ALL BEAM
Enter BEAM: 48
!
PRINT ALL BEAM

BEAM

 48
 48
 48
 48
 48

!
! Respond each time with 0 (please)
!
FOR CURRENT PRINT TYPE THEN MODIFY BEAM

MANUFACTURER   MODEL
```

```
 METALMAST   GALAXY
Enter BEAM: 0
 O'DAY       32
Enter BEAM: 0
 RYDER       S. CROSS
Enter BEAM: 0
 TA CHIAO    FANTASIA
Enter BEAM: 0
 WRIGHT      SEAWIND II
Enter BEAM: 0
!
SET ABORT
READY YACHTS READ
PRINT ALL

                              LENGTH
                              OVER
MANUFACTURER   MODEL     RIG    ALL   DISPLACEMENT BEAM  PRICE

METALMAST   GALAXY     SLOOP   32         9,500     00
O'DAY       32         SLOOP   32        11,000     00  $29,500
RYDER       S. CROSS   SLOOP   31        13,600     00  $32,500
TA CHIAO    FANTASIA   SLOOP   35        23,200     00
WRIGHT      SEAWIND II SLOOP   32        14,900     00  $34,480
```

The installation is successful if you receive the following message at the end of the UETP:

```
!
! The DEC DATATRIEVE User Environment Test
! Package has completed successfully.
!
```

5.3 DEC DATATRIEVE Graphics UETP

You must run the DEC DATATRIEVE graphics UETP on a VT125, VT240, VT330, or VT340 terminal, or a workstation. To run the UETP, invoke DEC DATATRIEVE as described in Section 4.1 and type the following command:

```
DTR> @SYS$COMMON:[SYSTEST.DTR]PLOTS
```

The DEC DATATRIEVE graphics UETP does not require any input from you. There are pauses between plots. The DEC DATATRIEVE graphics UETP displays the results of using the following plot statements:

- PLOT WOMBAT - A picture of a wombat
- PLOT DATE_Y - A scattergraph with dates along the horizontal axis
- PLOT SHADE - The previous scattergraph with shading

- PLOT DATE_Y - A scattergraph with dates along the horizontal axis
- PLOT CONNECT - The previous scattergraph with the points connected
- PLOT DATE_LOGY - A scattergraph with dates along the horizontal axis and a logarithmic scale for the vertical axis
- PLOT LR - The previous scattergraph with a linear regression line
- PLOT STACKED_BAR - A bar chart with stacked bars and a legend
- PLOT MULTI_BAR - A bar chart with multiple bars and a legend
- PLOT X_Y - A scattergraph
- PLOT TITLE - The previous scattergraph with a title
- PLOT LIMITS_Y - The previous X_Y scattergraph with maximum and minimum limits imposed on the Y axis
- PLOT LIMITS_X - The previous X_Y scattergraph with maximum and minimum limits imposed on the X axis
- PLOT REFERENCE_Y - The previous X_Y scattergraph with a solid reference line on the Y axis
- PLOT REFERENCE_X - The previous X_Y scattergraph with a solid reference line on the X axis
- PLOT LR - The previous scattergraph with a linear regression line
- PLOT X_LOGY - A scattergraph with a logarithmic scale for the vertical axis
- PLOT HISTO - A histogram
- PLOT PIE - A pie chart (with default title heading)
- PLOT TITLE (pie) - The previous pie chart with a multiline title
- PLOT BAR - A bar chart using builder and price
- PLOT SORT_BAR - The previous bar chart with the bars sorted by descending height
- PLOT BAR - A bar chart using type and price

When the DEC DATATRIEVE graphics UETP finishes, you see this message:

```
 !
 ! End of User Environment Test Package for DEC DATATRIEVE
 ! graphics
 !
 EXIT
```

5.4 DEC DATATRIEVE and DEC DBMS UETP

To run the DEC DATATRIEVE and DEC DBMS UETP, invoke DEC DATATRIEVE as described in Section 4.1 and type the following command:

```
DTR> @SYS$COMMON:[SYSTEST.DTR]DBMS
```

The DEC DATATRIEVE and DEC DBMS UETP is long, so the entire UETP is not repeated here.

You respond to prompts during the DEC DATATRIEVE and DEC DBMS UETP. The parts of the UETP that require answers are included here with the suggested responses printed in colored ink.

```
SELECT
PRINT

Part                                        Unit    Unit
Number  ------Part Description------ St    Price   Cost  Sp

TI-6789-01    RK HOUSING             G     $300   $190  FS
!
! Respond with 123 (or any three digit value)
!
MODIFY PART_PRICE
Enter PART_PRICE: 123
PRINT PART_ID, PART_PRICE

   Part            Unit
   Number          Price

TI-6789-01         $123
!
! Respond with 321 (or any three digit value)
!
MODIFY ALL PART_PRICE
Enter PART_PRICE: 321
PRINT ALL PART_PRICE

       Unit
       Price
```

```
        $321
        $321
        $321
        $321
        $321
!
! Respond each time with 0 (Please)
!
FOR CURRENT
  PRINT PART_ID THEN MODIFY PART_PRICE

  Part
  Number

TI-6789-01
Enter PART_PRICE: 0
BR-8901-23
Enter PART_PRICE: 0
TE-2345-67
Enter PART_PRICE: 0
TE-2178-90
Enter PART_PRICE: 0
TI-1334-56
Enter PART_PRICE: 0
PRINT ALL

Part                                          Unit      Unit
Number  ------Part Description------ St    Price     Cost  Sp

TI-6789-01    RK HOUSING             G        $0     $190  FS

BR-8901-23    LA36                   G        $0     $750  FS

TE-2345-67    RP05                   G        $0   $1,900  FS

TE-2178-90    RK06                   G        $0   $1,100  FS

TI-1334-56    RP HOUSING             G        $0     $300  FS
```

If the DEC DATATRIEVE and DEC DBMS UETP runs successfully, you see the following message:

```
 !
 ! End of DEC DATATRIEVE/DEC DBMS User Environment Test Package
 !
```

5.5 DEC DATATRIEVE and DEC Rdb UETP

To run the DEC DATATRIEVE and DEC Rdb UETP, invoke DEC DATATRIEVE as described in Section 4.1 and type the following command:

```
DTR> @SYS$COMMON:[SYSTEST.DTR]Rdb
```

The DEC DATATRIEVE and DEC Rdb UETP is 12 pages long, so the entire UETP is not repeated here.

You respond to prompts during the DEC DATATRIEVE and DEC Rdb UETP. The parts of the UETP that require answers are included here with the suggested responses printed in colored ink.

```
!
! Test Store
!
! Please supply the following values:
!
!       WAGE_CLASS :     4
!       JOB_TITLE:       ANYTHING
!       MINIMUM_SALARY:  12000
!       MAXIMUM_SALARY:  123000
!

STORE JOBS USING
        BEGIN
        JOB_CODE = "XXXX"
        WAGE_CLASS = *.WAGE_CLASS
        JOB_TITLE = *.JOB_TITLE
        MINIMUM_SALARY = *.MINIMUM_SALARY
        MAXIMUM_SALARY = *.MAXIMUM_SALARY
        END
Enter WAGE_CLASS: 4
Enter JOB_TITLE: ANYTHING
Enter MINIMUM_SALARY: 12000
Enter MAXIMUM_SALARY: 123000
!
STORE JOBS USING
        BEGIN
        JOB_CODE = "YYYY"
        WAGE_CLASS = 2
        JOB_TITLE = "FILE CLERK"
        MINIMUM_SALARY = 8000
        MAXIMUM_SALARY = 20000
        END
!

PRINT JOBS WITH JOB_CODE = "XXXX", "YYYY"
```

```
JOB  WAGE          JOB            MINIMUM     MAXIMUM
CODE CLASS        TITLE           SALARY      SALARY

XXXX   4   ANYTHING              $12,000.00 $123,000.00
YYYY   2   FILE CLERK               $8000.00  $20,000.00
!
! Test Erase
!
FOR JOBS WITH JOB_CODE = "XXXX"  ERASE
PRINT JOBS WITH JOB_CODE = "XXXX"
!
FIND JOBS WITH JOB_CODE = "YYYY"
[1 record found]
PRINT ALL

JOB  WAGE          JOB            MINIMUM     MAXIMUM
CODE CLASS        TITLE           SALARY      SALARY

YYYY   2   FILE CLERK             $8,000.00  $20,000.00

SELECT LAST
ERASE
PRINT JOBS WITH JOB_CODE = "YYYY"
!
! Test Update
!
FIND EMPLOYEES WITH EMPLOYEE_ID = "00168"
[1 record found]
SELECT
!

PRINT EMPLOYEE_ID, LAST_NAME, STREET, TOWN, STATE


EMPLOYEE      LAST
   ID         NAME             STREET          TOWN       STATE

 00168     Nash       87 West Rd.         Meadows          NH
!
! Change this employee's address
!
! Please supply the following value:
!
! STREET:  8 FLINT POND
!
MODIFY STREET
Enter STREET: 8 FLINT POND
PRINT EMPLOYEE_ID, LAST_NAME, STREET, TOWN, STATE

EMPLOYEE      LAST
   ID         NAME             STREET          TOWN       STATE

 00168    Nash      8 FLINT POND   Meadows          NH
```

```
!
! Don't really want to do this; rollback this change
!
ROLLBACK
ROLLBACK executed; collection CURRENT automatically released.
!
PRINT EMPLOYEE_ID, LAST_NAME, STREET, TOWN, STATE OF
  EMPLOYEES WITH EMPLOYEE_ID = "00168"

EMPLOYEE      LAST
   ID         NAME            STREET           TOWN        STATE

 00168    Nash        87 West Rd.         Meadows           NH

!
FIND ALL EMPLOYEES WITH STATE = "MA"
[8 records found]
PRINT ALL STATE

STATE

 MA
 MA
 MA
 MA
 MA
 MA
 MA
 MA
!
! Respond with VT (or another two-character state abbreviation)
!
MODIFY ALL STATE
Enter STATE: VT
PRINT ALL STATE

STATE

 VT
 VT
 VT
 VT
 VT
 VT
 VT
 VT

!
! Move them back to MA
!
FOR CURRENT
  MODIFY USING STATE = "MA"
PRINT ALL STATE

 STATE
```

```
MA
MA
MA
MA
MA
MA
MA
MA
```

If the DEC DATATRIEVE and DEC Rdb UETP runs successfully, you see the following message:

```
!
! End of DEC DATATRIEVE/Rdb User Environment Test Package
!

ROLLBACK
ROLLBACK executed; collection CURRENT automatically released.
FINISH ALL
DTR>
```

5.6 DEC DATATRIEVE and Forms UETP

You need a VT52-, VT100-, VT200-, or VT300-family terminal or a workstation to run the DEC DATATRIEVE and forms UETP.

If DEC DATATRIEVE has been installed with support for VAX TDMS or FMS, you can run the forms UETP to test the forms interface.

To run the forms UETP, set your OpenVMS default to a directory that contains YACHT.DAT and OWNER.DAT. Be sure that you have WRITE access (W) to these files. You can copy YACHT.DAT and OWNER.DAT from the directory DTR$LIBRARY if you do not have them in your directory. Then invoke DEC DATATRIEVE as described in Section 4.1 and type the following command:

```
DTR> @SYS$COMMON:[SYSTEST.DTR]FORMS
```

When DEC DATATRIEVE uses a form to print records, the screen clears before the first record is printed. The DEC DATATRIEVE and forms UETP ask you to enter a character and press RETURN before each statement, causing the forms product to erase the screen.

The following is a summary of the DEC DATATRIEVE and forms UETP:

1 The UETP sends instructions to your screen and waits for you to enter a character and press RETURN. After you respond, the UETP defines three domains that use the forms product: YACHTS, SAILBOATS,

and FAMILIES. The definitions use forms libraries that are located in DTR$LIBRARY.

2 The UETP readies YACHTS and prints a few records without using the forms product. Then the UETP sends more instructions to your screen and waits for you to enter a character and press RETURN. After you respond, the UETP prints a record using the forms product. Press RETURN after the forms product displays the record.

3 The UETP sends instructions to your screen and waits for you to enter a character and press RETURN. After you respond, the UETP prints several records using the forms product. Press RETURN after the forms product displays each record.

4 The UETP tests the STORE statement. The UETP sends instructions to your screen and waits for you to enter a character and press RETURN. After you respond, the forms product puts a form on the screen for you to fill in. To move the cursor from one field to another, use the TAB and BACK SPACE keys. The TAB key moves the cursor to the next field; the BACK SPACE key moves the cursor back to the previous field. Help is also available for some fields if you have trouble entering an acceptable value. Position the cursor on that field and press the HELP key. After you fill in the form, press RETURN.

5 The UETP tests the MODIFY statement controlling the DISPLAY_ FORM statement. The UETP sends instructions to your screen and waits for you to enter a character and press RETURN. After you respond, the forms product displays the first record for you to modify. Use the TAB and BACK SPACE keys to move from one field to another. Modify only the BEAM field in each record. Any other modifications are not written to the data file. After you modify each record, press RETURN.

6 The UETP tests the PRINT statement again, using the SAILBOATS view domain. The UETP waits for you to enter a character and press RETURN before each PRINT statement. After the forms product displays the SAILBOAT records, the UETP sends the following message to your screen:

```
!
! End of DEC DATATRIEVE/Forms User Environment Test Package
!
```

6 DEC DATATRIEVE CBT Installation (VAX Only)

This chapter describes the installation procedure for the DEC DATATRIEVE computer-based training (CBT).

1 Before Starting

Before starting the DEC DATATRIEVE CBT installation, please completely review this chapter. Be sure to gather information to answer the prompts before starting the installation.

If you already have a previous version of the DEC DATATRIEVE CBT installed, the CBT can remain. This new kit will add to or overwrite the existing CBTs as appropriate.

2 Pre-installation of the DEC DATATRIEVE CBT

Perform the following steps before running the VMSINSTAL procedure:

— Copy the new kit from the tape containing the savesets, DTC010.A and DTC010.B.

— Set your process privileges to ALL.

```
SET PROC/PRIV=ALL
```

— Check to see if the DEC DATATRIEVE CBT has been previously installed:

```
SHOW LOGICAL EASY$MANAGER
```

If the logical exists, the DEC DATATRIEVE CBT has been installed before. Invoke shutdown command for each node in the cluster:

```
@SYS$MANAGER:EASY$SHUTDOWN.COM
```

Next, invoke the startup command for the node on which you are installing:

```
@SYS$MANAGER:EASY$STARTUP.COM
```

If you find that the DEC DATATRIEVE CBT has been previously installed, go on to Step 3, SITE WITH A PREVIOUS EASYAUTHOR INSTALLATION, and do the actual installation.

— Find a UIC (if EasyAuthor CBTs not previously installed on system).

  Find an available UIC to become the owner of the files to be installed. A new account name (EASYMGR) is created during install. This account has the DISUSER flag set.

— Find a disk to use (if this is the first time you install on the system).

  The installation will require approximately 12,000 blocks.

3 Installation of the DEC DATATRIEVE CBT

Perform the install by running VMSINSTAL. The following is a log file of the installation. Notations (<<-) are included to show where entry is required. These notations will not appear on the screen during the install.

```
       FIRST TIME INSTALLATION

$ @sys$update:vmsinstal <<--
 Software Product Installation Procedure V5.4-2
It is 20-DEC-1991 at 22:15.
Enter a question mark (?) at any time for help.
%VMSINSTAL-W-NOTSYSTEM, You are not logged in to the SYSTEM account.
%VMSINSTAL-W-ACTIVE, The following processes are still active:
Resourcemoniter
* Do you want to continue anyway [NO]? YES <<--
* Are you satisfied with the backup of your system disk [YES]? <<--
* Where will the distribution volumes be mounted: SYS$LOGIN: <<--
Enter the products to be processed from the first distribution volume
set.
* Products: DTC010 <<--
* Enter installation options you wish to use (none): <<--
The following products will be processed:
 DTC010
Beginning installation of DTC V1.0 at 22:16
```

```
%VMSINSTAL-I-RESTORE, Restoring product save set A ...
* Enter UIC value for EASYMGR account in [g,m] format: [666,666] <<--
Location for EASYMGR lesson directory:
* >> [SYS$COMMON:[EASYMGR]]: EASYAUTHOR_KITS:[easymgr] <<--
%DTC-I-CREATE, Creating the EASYMGR account
%DTC-I-DISUSER, This account is initially DISABLED. (DISUSER)
%VMSINSTAL-I-ACCOUNT, This installation creates an ACCOUNT named
EASYMGR.
%UAF-I-ADDMSG, user record successfully added
%UAF-I-RDBADDMSGU, identifier EASYMGR value: [000666,000666]
added to rights data base
%DTC-I-CREATEDIR, Creating EasyAuthor directories.
%DTC-I-LOADEXE, Loading executables
%DTC-I-INSTLOK, EASY has been successfully installed.

  +-----------------------------------------------------+
  |          POST INSTALL INSTRUCTIONS !                |
  |                                                     |
  |  Add the EASY symbol definition to                  |
  |  SYS$SYLOGIN.COM or user's LOGIN.COM as follows:    |
  |         EASY :== $EASY$PROGRAM:SOLORTP.EXE          |
  |         LOADDRAW :== $EASY$PROGRAM:SOLORTP.EXE      |
  |                                                     |
  |  IMMEDIATELY AFTER INSTALL RUN THE FOLLOWING        |
  |               COMMAND FILE:                         |
  |                                                     |
  |         @EASY$PROGRAM:SETUP.COM                     |
  +-----------------------------------------------------+

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

   Installation of DTC V1.0 completed at 22:46

Enter the products to be processed from the next distribution
volume set.
* Products: <<--
  VMSINSTAL procedure done at 22:46
$ @easy$program:setup.com <<--
$ logout <<--
```

SITE WITH A PREVIOUS EASYAUTHOR INSTALLATION

```
$ @sys$update:vmsinstal
  Software Product Installation Procedure V5.3-1
It is 20-DEC-1991 at 14:50.
Enter a question mark (?) at any time for help.
%VMSINSTAL-W-NOTSYSTEM, You are not logged in to the SYSTEM account.
%VMSINSTAL-W-ACTIVE, The following processes are still active:
Resourcemonitor
EASY_DEV
* Do you want to continue anyway [NO]? y <<--
* Are you satisfied with the backup of your system disk [YES]? <<--
* Where will the distribution volumes be mounted: sys$login <<--
```

```
Enter the products to be processed from the first distribution
volume set.
* Products: DTC010 <<--
* Enter installation options you wish to use (none): <<--
The following products will be processed:
 DTC V1.0
Beginning installation of DTC V1.0 at 14:50

 %VMSINSTAL-I-RESTORE, Restoring product save set A ...
 *****%KELLY-I-INSTLOK, EASY has been successfully installed.

 +-----------------------------------------------------+
 |          POST INSTALL INSTRUCTIONS !                |
 |                                                     |
 |  Add the EASY symbol definition to                  |
 |  SYS$SYLOGIN.COM or user's LOGIN.COM as follows:    |
 |         EASY :== $EASY$PROGRAM:SOLORTP.EXE          |
 |         LOADDRAW :== $EASY$PROGRAM:LOADDRAW.EXE     |
 |                                                     |
 |  IMMEDIATELY AFTER INSTALL RUN THE FOLLOWING        |
 |                COMMAND FILE:                        |
 |                                                     |
 |         @EASY$PROGRAM:SETUP.COM                     |
 |                                                     |
 |                                                     |
 +-----------------------------------------------------+

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

  Installation of DTC V1.0 completed at 14:53

Enter the products to be processed from the next distribution volume
set.
* Products:  <<--
VMSINSTAL procedure done at 14:53
```

4 Post-install of the DEC DATATRIEVE CBT

Run the following command file:

```
@EASY$PROGRAM:SETUP.COM
```

Before any of the system's users can access this CBT, the EASY and LOADDRAW symbols must be added to SYS$MANAGER:SYLOGIN.COM or user's LOGIN.COM as follows:

```
EASY :== $EASY$PROGRAM:SOLORTP.EXE
LOADDRAW :== $EASY$PROGRAM:LOADDRAW.EXE
```

Upon completion of the above steps, the DEC DATATRIEVE CBT is installed on a single node. To test the installation, run it from a user account by typing:

```
EASY
```

Edit the main course menu file to remove duplicate lines (if the course has been previously installed). The file is EASY$PROGRAM:EASY.CAT.

5 Start-up in clustered systems

To enable the lessons on all nodes in the cluster, run the EASY$STARTUP command on EACH NODE as follows:

```
@SYS$MANAGER:EASY$STARTUP.COM
```

6 De-installation of the DEC DATATRIEVE CBT (if ever necessary)

A shutdown command file can be found in SYS$MANAGER. The name of the file is EASY$SHUTDOWN.COM. This command file removes all logicals, logical name tables, and shared images associated with this package.

To completely remove this package from the system:

- Examine the EASY$LESSONS logical. This logical will tell you where the CBT has been installed.
- Execute the command file (for all nodes if clustered),

```
@SYS$MANAGER:EASY$SHUTDOWN
```

- Remove the entire [EASYMGR] directory tree.
- Remove EASYMGR from the user authorization file.

```
RUN AUTHORIZE
REMOVE EASYMGR
EXIT
```

- Delete the command files,

```
SYS$MANAGER:EASY$STARTUP.COM
SYS$MANAGER:EASY$SHUTDOWN.COM
```

A Sample Installation Session (VAX Only)

This appendix lists the hardcopy terminal output from an installation of DEC DATATRIEVE Version 6.1 on an OpenVMS VAX system.

```
$ @SYS$UPDATE:VMSINSTAL
VAX/VMS Software Product Installation Procedure V5.5-2

It is 24-MAR-1993 at 16:38.

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

%VMSINSTAL-W-NOTSYSTEM, You are not logged in to the SYSTEM
account.
%VMSINSTAL-W-ACTIVE, The following processes are still active:
 MAIL
 LSEDIT
* Do you want to continue anyway [NO]? yes
* Are you satisfied with the backup of your system disk [YES]?
* Where will the distribution volumes be mounted: DISK:[DTR.KIT61]

Enter the products to be processed from the first distribution volume
set.
* Products: DTR061
* Enter installation options you wish to use (none):
The following products will be processed:

 DTR V6.1-0
   Beginning installation of DTR V6.1-0 at 16:39

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

      Product:      DTR-UI-HANYU or DTR-USER-UI-HANYU
      Producer:     DEC
      Version:      6.1
                Release Date: 30-APR-1993

* Does this product have an authorization key registered and loaded?
YES
* Do you want to use default answers for all questions [YES]? NO

      VAXLSE is installed on your system.

      You now have the following options:

1.   Do a complete DEC DATATRIEVE installation including
     DEC DATATRIEVE support for LSE.
```

```
2.   Do only DEC DATATRIEVE support for LSE without
     installing DEC DATATRIEVE.

3.   Do a DEC DATATRIEVE installation without including
     DEC DATATRIEVE support for LSE.

* Select option [1]: 3

The following Forms Management products have been found on
this system:

       TDMS (Terminal Data Management System)
       FMS  (Forms Management System)

DEC DATATRIEVE can be built to support any one of these
products, or, if desired, DEC DATATRIEVE can be built without
support of any of these Forms Management products

* Do you want DEC DATATRIEVE to support one of these products
[YES]? NO

It is possible to do more than one installation of DEC DATATRIEVE.
More than one installation of a single version may be desirable
for a number of reasons including:

   o Use of multiple forms management products (such as
   FMS and TDMS; DECforms is available in every image,
   if present on the system)

   o Use of multiple foreign language translations of DEC
   DATATRIEVE (such as French or German)

* Do you plan to install this version more than once [NO]?
* Do you want DTRSHR.EXE and DTRMSGS.EXE to be installed SHARED
[YES]?
* Do you want DTR32.EXE to be installed SHARED [YES]?
* Do you want DDMF.EXE to be installed SHARED [YES]?
* Do you wish to have the plot definitions [YES]?

   Some optional material is available with this kit including
   the components of DEC DATATRIEVE that can be tailored at
   the installed site.

* Do you want the optional material [NO]? YES
* Do you want to purge files replaced by this installation [YES]?

   The DEC DATATRIEVE IVP will be put in the SYS$COMMON:[SYSTEST.DTR]
   directory. You may run the IVP immediately after the completion of
   the installation procedure answering YES to the next question or
   later issuing the following command:

   @SYS$COMMON:[SYSTEST.DTR]DTR$IVP.COM DTR32.EXE

 * Do you want to run the IVP after the installation [YES]?
 * Proceed with this installation [YES]?

 All questions regarding the installation have now been asked.
```

```
   The installation of DEC DATATRIEVE will now continue for
   20 minutes to 40 minutes.

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

   During the installation, a file called

   DTRSTUP.COM has been added to SYS$STARTUP:

 The site-dependent start-up file, SYS$MANAGER:SYSTARTUP_V5.COM
 should have the following line added:

   $ @SYS$STARTUP:DTRSTUP.COM

 %VMSINSTAL-I-RESTORE, Restoring product save set C ...
 %DCL-I-SUPERSEDE, previous value of DTR$LIBRARY has been
 superseded

  ************************************************************
  DEC DATATRIEVE User Environment Test Packages (UETPs)
  have been provided and can be run after the installation is
  complete. They are invoked from DEC DATATRIEVE as follows:

  DTR> @sys$common:[systest.dtr]DTR     ! The general test"
  DTR> @sys$common:[systest.dtr]plots   ! The plots test
  DTR> @sys$common:[systest.dtr]dbms    ! The DEC DBMS test
  DTR> @sys$common:[systest.dtr]rdb     ! The DEC Rdb test

 Before invoking these files from a user's account you must
 execute the procedure :
                @DTR$LIBRARY:NEWUSER.COM
 This procedure loads the DEC DATATRIEVE definitions into the
 user's dictionary and the data files in the user's directory.
 This procedure must be executed by each user needing
 the DEC DATATRIEVE examples
 ************************************************************

   Restoring UETP-related DEC DBMS objects

UETP-related DEC DBMS objects Successfully Restored

Restoring UETP-related DEC Rdb objects

UETP-related DEC Rdb objects Successfully Restored

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

Executing IVP for:  DEC DATATRIEVE V6.1-0

   Test completed successfully
   ***************************

   IVP COMPLETED SUCCESSFULLY
   ***************************

IVP completed for:  DEC DATATRIEVE V6.1-0
```

```
  Installation of DTR V6.1-0 completed at 16:55

Enter the products to be processed from the next distribution
volume set.
* Products:
 VMSINSTAL procedure done at 17:00
$
```

B Sample Installation Session (AXP Only)

This appendix lists the hardcopy terminal output from an installation of DEC DATATRIEVE Version 6.1 on an OpenVMS AXP system.

```
$ @SYS$UPDATE:VMSINSTAL
 OpenVMS ALPHA Software Product Installation Procedure T1.5-FT3

It is 24-MAR-1993 at 15:01.

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

%VMSINSTAL-W-NOTSYSTEM, You are not logged in to the SYSTEM
account.
%VMSINSTAL-W-ACTIVE, The following processes are still active:
 DECW$MWM
 REGTEST
* Do you want to continue anyway [NO]? YES
* Are you satisfied with the backup of your system disk [YES]?
* Where will the distribution volumes be mounted: DKA100:[DTR]

Enter the products to be processed from the first distribution
volume set.
* Products: DTR061
* Enter installation options you wish to use (none):
The following products will be processed:

       DTR V6.1-0

            Beginning installation of DTR V6.1-0 at 15:01

%VMSINSTAL-I-RESTORE, Restoring product save set A ...
%VMSINSTAL-I-RELMOVED, Product's release notes have been moved to
 SYS$HELP.
          Product:      DTR-UI-HANYU or DTR-USER-UI-HANYU
          Producer:     DEC
          Version:      6.1
          Release Date: 30-APR-1993

* Does this product have an authorization key registered and loaded?
YES
* Do you want to use default answers for all questions [YES]? NO

       LSE is installed on your system.

 You now have the following options:

 1.   Do a complete DEC DATATRIEVE installation including
      DEC DATATRIEVE support for LSE.
```

```
 2.   Do only DEC DATATRIEVE support for LSE without
      installing DEC DATATRIEVE.

 3.   Do a DEC DATATRIEVE installation without including
      DEC DATATRIEVE support for LSE.

 * Select option [1]: 3

 FMS  (Forms Management System) has been found
 on this system. DEC DATATRIEVE can be built to support
 this product.

* Do you want support for this product in DEC DATATRIEVE
[YES]? NO

It is possible to do more than one installation of DEC DATATRIEVE.
More than one installation of a single version may be desirable
for a number of reasons including:

  o Use of multiple forms management products (such as
    FMS; DECforms is available in every image, if present
    on the system)

  o Use of multiple foreign language translations of
    DEC DATATRIEVE (such as French or German)

* Do you plan to install this version more than once [NO]?
* Do you want DTRSHR.EXE and DTRMSGS.EXE to be installed SHARED
[YES]?
* Do you want DTR32.EXE to be installed SHARED [YES]?
* Do you want DDMF.EXE to be installed SHARED [YES]?
* Do you wish to have the plot definitions [YES]?

Some optional material is available with this kit including
the components of DEC DATATRIEVE that can be tailored at
the installed site.

* Do you want the optional material [NO]? YES
* Do you want to purge files replaced by this installation
[YES]?

The DEC DATATRIEVE IVP will be put in the SYS$COMMON:[SYSTEST.DTR]
directory. You may run the IVP immediately after the completion of
the installation procedure answering YES to the next question or
later issuing the following command:

   @SYS$COMMON:[SYSTEST.DTR]DTR$IVP.COM DTR32.EXE

* Do you want to run the IVP after the installation [YES]?
* Proceed with this installation [YES]?

All questions regarding the installation have now been asked.

The installation of DEC DATATRIEVE will now continue for
10 minutes to 20 minutes.

%VMSINSTAL-I-RESTORE, Restoring product save set B ...
```

```
    During the installation, a file called

    DTRSTUP.COM has been added to SYS$STARTUP:

 The site-dependent start-up file, SYS$MANAGER:SYSTARTUP.COM
 should have the following line added:

   $ @SYS$STARTUP:DTRSTUP.COM

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

 ************************************************************
 DEC DATATRIEVE User Environment Test Packages (UETPs)
 have been provided and can be run after the installation is
 complete. They are invoked from DEC DATATRIEVE as follows:

 DTR> @sys$common:[systest.dtr]DTR     ! The general test"
 DTR> @sys$common:[systest.dtr]plots   ! The plots test
 DTR> @sys$common:[systest.dtr]dbms    ! The DEC DBMS test
 DTR> @sys$common:[systest.dtr]rdb     ! The DEC Rdb test

Before invoking these files from a user's account you must
execute the procedure :
                       @DTR$LIBRARY:NEWUSER.COM
This procedure loads the DEC DATATRIEVE definitions into the
user's dictionary and the data files in the user's directory.
This procedure must be executed by each user needing
the DEC DATATRIEVE examples
************************************************************

  Restoring UETP-related DEC DBMS objects

  UETP-related DEC DBMS objects Successfully Restored

    Restoring UETP-related DEC Rdb objects

  UETP-related DEC Rdb objects Successfully Restored

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

 Executing IVP for:  DEC DATATRIEVE V6.1-0

    Test completed successfully
    ***************************

    IVP COMPLETED SUCCESSFULLY
    **************************

IVP completed for:  DEC DATATRIEVE V6.1-0

Installation of DTR V6.1-0 completed at 15:08

 Adding history entry in VMI$ROOT:[SYSUPD]VMSINSTAL.HISTORY

 Creating installation data file: VMI$ROOT:[SYSUPD]DTR061.VMI_DATA
```

```
 Enter the products to be processed from the next distribution
 volume set.
 * Products:
  VMSINSTAL procedure done at 15:08
$
```