Compaq BASIC for OpenVMS VAX Systems

Installation Guide

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This guide describes how to install Compaq BASIC on a VAX processor running the OpenVMS VAX operating system.

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Preface

This guide describes how to install Compaq BASIC for OpenVMS VAX Systems on VAX processors that are running the OpenVMS operating system.

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

Compaq BASIC for OpenVMS VAX Systems is the new name for VAX BASIC. Compaq BASIC for OpenVMS Alpha Systems is the new name for DEC BASIC.

Intended Audience

This guide is intended for system managers who install Compaq BASIC.

Document Structure

This guide contains the following chapters and appendixes:

- Chapter 1 describes the preparations necessary for installing Compaq BASIC.
- Chapter 2 describes how to install Compaq BASIC.
- Chapter 3 describes postinstallation tasks.
- Appendix A shows a sample Compaq BASIC installation.
- Appendix B lists the files installed on your system during the Compaq BASIC installation.
- Appendix C describes how to recover from failures and errors that may occur during installation and product use.

Comments About Compaq BASIC Documentation

If you have suggestions for improving the documentation or if you find errors, please send your comments to us:

Internet address:

`basic_docs@compaq.com`

Associated Documentation

In addition to this guide, the Compaq BASIC documentation set includes the following:

- The *Compaq BASIC for OpenVMS Alpha and VAX Systems User Manual*
- The *Compaq BASIC for OpenVMS Alpha and VAX Systems Reference Manual*
- A letter titled *Read Before Installing or Using Compaq BASIC Version 3.9 for OpenVMS VAX Systems*
- The Compaq BASIC online release notes, which provide more information about Compaq BASIC. The release notes are located in (*n* is the minor point release):

  `SYS$HELP:BASIC03`*n*`.RELEASE_NOTES`

Conventions

Table 1 describes the conventions used in this guide.

Table 1 Conventions Used in this Guide

Convention	Description
$	A dollar sign represents the OpenVMS DCL prompt.
Ctrl/*x*	The key combination Ctrl/*x* indicates that you must press the key labeled Ctrl while you simultaneously press another key, for example, Ctrl/Y or Ctrl/Z.
UPPERCASE	Uppercase letters indicate the name of a command, routine, or file, a file protection code, or the abbreviation for a system privilege.

(continued on next page)

Table 1 (Cont.) Conventions Used in this Guide

Convention	Description
italic text	Italic text represents parameters, arguments, and information that can vary in system messages (for example, Internal error *number*), as well as book titles.

1
Preparing for Compaq BASIC Installation

Your distribution kit includes a letter titled *Read Before Installing or Using Compaq BASIC Version 3.9 for OpenVMS VAX Systems*. This letter discusses important information that might not be included in this guide. You should read this letter now. You should also review the Compaq BASIC Release Notes before continuing with the installation. For information on accessing the Release Notes, see Chapter 2.

1.1 Registering Your Software License

Before you install and run Compaq BASIC Version 3.9 on a newly licensed node or an Open VMScluster environment, you must first register a License Product Authorization Key (License PAK) using the License Management Facility (LMF). The License PAK may be shipped along with the kit if you ordered the license and media together; otherwise, it is shipped separately to a location based on your license order. If you are installing Compaq BASIC as an update on a node or cluster already licensed for this software, you have already completed the License PAK registration requirements.

If you are installing prerequisite or optional software along with Compaq BASIC, review the PAK status and install the PAKs for any prerequisite or optional software before you install Compaq BASIC.

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

To register a license under the OpenVMS operating system, first log in to a priviliged account. You then have a choice of two ways to perform the registration:

- Invoke the SYS$UPDATE:VMSLICENSE.COM procedure. When it prompts you for information, respond with data from your License PAK.
- At the DCL prompt, enter the LICENSE REGISTER command with the appropriate qualifiers that correspond to License PAK information.

If you plan to use Compaq BASIC on more than one node in an Open VMScluster environment, you will need to perform a license load on the other nodes after you complete this installation. See Section 3.2 for more information.

For complete information about using the LMF, see the *OpenVMS License Management Utility Manual*.

1.2 Required Hardware

For a complete list of required hardware and supported processors, see the Compaq BASIC Version 3.9 Software Product Description (SPD).

1.3 Required Operating System Components, and Software

Compaq BASIC Version 3.9 for OpenVMS Alpha systems requires OpenVMS for VAX Systems Version 5.5-2 to 7.2-1.

The following optional software can be used with Compaq BASIC:

- Oracle CDD/Repository
- Language-Sensitive Editor
- Source Code Analyzer

1.4 Installation Procedure Requirements

This section describes the requirements for installing Compaq BASIC (process account quotas, system parameters, disk space, and so on).

1.4.1 VMSINSTAL Checks

VMSINSTAL checks:

- If the user is logged into a privileged account
- If any other processes are running on the system
- If the minimum account quotas are met

1.4.2 Account Privileges

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

- CMKRNL
- WORLD

- SYSPRV

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

Privileges required for product use are defined in Section 3.3.1.

1.4.3 Disk Space

Compaq BASIC requirements for free disk storage space are different during installation and after installation. Table 1–1 summarizes the storage requirements.

Table 1–1 Disk Space Requirements

Kit	Blocks During Installation	Blocks After Installation
Compaq BASIC Version 3.9, with no options	2850	1350
Compaq BASIC HELP file option	+0	+500
Compaq BASIC sample graphics examples	+400	+400
Compaq BASIC system definitions option	+8300	+6500
Compaq BASIC Motif bindings and examples	+1600	+1600
Compaq BASIC with all options	13000	11000

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

```
$ SHOW DEVICE device_name
```

1.4.4 Backing Up Your System Disk

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

Use the backup procedures that are established at your site. For details on performing a system disk backup, see the section on the Backup Utility in the *OpenVMS System Manager's Manual*.

2
Installing Compaq BASIC

After you register and load your License PAK, the installation takes approximately 15 to 45 minutes, depending on your system configuration and the kit components chosen.

If you encounter any failures during installation, see Appendix C.

2.1 Installation Procedure

Mount the media.

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

When the system prompts you with a question during the installation procedure, the default answer is often listed in brackets ([ ]).

To install Compaq BASIC, perform the following steps:

1. **Log in to a privileged account and set your default device and directory to SYS$UPDATE:**

```
Username: SYSTEM
Password:

$ SET DEFAULT SYS$UPDATE
```

2. **Invoke VMSINSTAL:**

```
$ @VMSINSTAL saveset-name device-name option-list
```

VMSINSTAL is in the SYS$UPDATE directory. The parameters that you specify when you invoke the VMSINSTAL command procedure are as follows:

saveset-name

The installation name for the component. For Compaq BASIC, enter the following installation name (*n* is the minor point release number):

```
BASIC03n
```

device-name

The name of the device on which you have mounted the media containing the Compaq BASIC save set. For example, MKA400: is the device name used in examples in this guide.

To specify the device name on the @VMSINSTAL command line, enter:

```
MKA400:
```

option-list

The word OPTIONS followed by one or more of the following option designators—A, G, L, N, R:

- Auto_answer option (A)

  Initially creates a file that contains your answers to VMSINSTAL questions and prompts. You can then use the option (and the answer file) to save time during a reinstallation (typically after upgrading your system).

- Get save-set option (G)

  Lets you store product save sets temporarily on a magnetic tape or in a disk directory.

- File log option (L)

  Logs all activity to the terminal during installation.

- Display or print the release notes (N)

  Indicates that you want to see the installation question on release notes. If you do not include the N option, VMSINSTAL does not ask you about the release notes. You should review the release notes before proceeding with the installation in case they contain additional information about the installation.

  If you are restarting the installation and have already reviewed the release notes, you do not need to specify the N option. (Even if you omit the N option when you invoke VMSINSTAL, the Compaq BASIC release notes are copied automatically to the SYS$HELP directory.)

- Alternate root option (R)

Lets you install the product to a system root other than that of the running system.

For detailed information on these software installation options, see the OpenVMS operating system documentation. If you specify more than one option, separate each option with a comma, such as:

```
OPTIONS A,N
```

The following example invokes VMSINSTAL to install Compaq BASIC and shows the system response. This example uses the OPTIONS N release note option.

```
$ @VMSINSTAL BASIC03n MKA400: OPTIONS N

      OpenVMS VAX Software Product Installation Procedure V7.2

It is dd-mmm-yyyy at hh:mm.

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

If you do not supply the product name, or the device name, VMSINSTAL prompts you for this information later in the installation procedure.

When you invoke VMSINSTAL, it checks whether you are logged in to a privileged account. It is recommended that you install software from the system manager's account with your default device and directory set to SYS$UPDATE.

VMSINSTAL then checks to determine whether any users are logged in to the system. If users are logged in, VMSINSTAL asks whether you want to continue the installation:

```
* Do you want to continue anyway [NO]?
```

If you want to continue, enter Y. If you want to stop the installation, press Return.

3. **Confirm system backup.**

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

If you are satisfied with the backup of your system disk, press Return. Otherwise, enter N to discontinue the installation. After you back up your system disk, you can restart the installation.

If you omitted the device name on the VMSINSTAL command line, the following prompt appears:

```
* Where will the distribution volumes be mounted:
```

If this prompt appears, enter the location of the distribution media that contains the Compaq BASIC kit (save sets). For example, if the media is contained on a tape located on unit MKA400:, enter MKA400: in reply to this question.

If you omitted the product name on the VMSINSTAL command line, the following prompt appears:

```
Products:
```

Enter the kit name, BASIC03*n*.

If you did not choose an installation option at the options prompt on the VMSINSTAL command line, the following prompt appears and you can enter one of the installation options:

```
Enter installation options you wish to use (none): N
```

Depending on the type of device and whether the device is already mounted, the following prompt may appear:

```
Please mount the first volume of the set on MKA400:.
* Are you ready? YES
%MOUNT-I-MOUNTED, MKA400:  mounted
```

If you have not already done so, you should now insert the distribution volume on the device you specified when you invoked VMSINSTAL. The device name appears in the line preceding the question. VMSINSTAL then asks if you are ready to continue with the installation.

If you respond Y to indicate that you are ready, VMSINSTAL displays a message that the media containing Compaq BASIC has been mounted on the specified device and that the installation has begun.

If you entered the wrong device name when you invoked VMSINSTAL and need to restart the installation, enter N in response to the ''Are you ready?'' question. To stop the installation for other reasons, press Ctrl/Y.

4. **Verify the product being installed**.

```
 The following products will be processed:

   BASIC V3.n

   Beginning installation of BASIC V3.n  at hh:mm

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

The product name and version are displayed. The first save set (A) is restored to a subdirectory of SYS$UPDATE:.

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

```
Release Notes Options:

 1.  Display release notes
 2.  Print release notes
 3.  Both 1 and 2
 4.  Copy release notes to SYS$HELP

* Select option [2]:
```

If you specified OPTIONS N when you invoked VMSINSTAL or at the options prompt, you are now asked to choose one of the options for reviewing the release notes. All options copy the release notes to SYS$HELP.

If you select option 1, VMSINSTAL displays the release notes immediately on the console terminal. You can terminate the display at any time by pressing Ctrl/C.

If you select option 2, VMSINSTAL prompts you for the name of the print queue that you want to use. Either supply the name of the print queue that you want to use or press Return to send the file to the default output print device. For example:

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

If you select option 3, VMSINSTAL displays the release notes immediately on the console terminal and then prompts you for a queue name for the printed version.

If you select option 4, the installation procedure will only copy the release notes to the SYS$HELP directory.

Next, VMSINSTAL displays the following message:

```
%VMSINSTAL-I-RELMOVED, Product's release notes have been moved to SYS$HELP.

       Compaq BASIC V3.n Installation beginning at hh:mm:ss.cc

  Copyright 2000 Compaq Computer Corporation
```

The release notes are copied to the following file in the SYS$HELP directory:

```
BASIC03n.RELEASE_NOTES
```

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

```
$ HELP BASIC RELEASE_NOTES
```

6. **Select installation options.**

   The installation procedure lets you select the components of the kit that you want to install. The choices are as follows:

```
   There are three possible installation options.  They are described
   as follows:

   1) Perform a complete installation of Compaq BASIC.

   2) Install OpenVMS VAX system definitions text library only
      (10-45 minutes).

   3) Obtain a copy of the Compaq BASIC message text for modification.

 * Which option do you want to use [1]:
```

   If you specifiy choice 1, which is the default, the installation continues.

   Select the components you want to install by answering Y or N to the questions. If you want a more detailed description of any component, enter a question mark (?). After the explanation is displayed, you will be prompted again for a response.

   If you enter Y, the installation procedure installs the component.

7. **Install BASIC HELP files**.

```
   * Do you want to install the BASIC HELP files [YES]?
```

   The HELP files describe how to invoke Compaq BASIC from the DCL command line and the BASIC language features. The HELP files require 500 blocks of disk space. It is recommended that you install these files.

8. **Install OpenVMS VAX system definitions.**

```
   * Do you want to install the OpenVMS VAX system definitions
   (10-45 min.) [NO]?
```

   This option generates a text library (SYS$LIBRARY:BASIC$STARLET.TLB) that contains OpenVMS VAX system definitions. Depending on your processor and system load, creating this library requires approximately 10 to 45 minutes. The OpenVMS VAX system definitions require 6500 blocks of disk space.

9. **Install Compaq BASIC graphics support examples.**

```
   * Do you want to install the sample graphic programs [NO]?
```

   Answering YES to this options puts the Compaq BASIC sample graphic programs into the SYS$COMMON:[SYSHLP.EXAMPLES.BASIC] directory. These programs require 400 blocks of disk space, and illustrate how to use Compaq BASIC graphics.

10. **Install Motif definitions.**

```
* Do you want to install the Motif definitions [YES]?
```

Answering YES to this option puts the Compaq BASIC version of the Motif definitions, DECW$MOTIF.BAS, into the SYS$LIBRARY directory. These definitions require 1600 blocks of disk space and contain the Constant, Record, and External declarations needed to do Motif programming. Examples are also put into the DECW$EXAMPLES area provided it exists. Note that if the DECW$EXAMPLES area does not exist, the default for this question is NO, and the examples are not provided.

11. **Purge files.**

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

The directories SYS$HELP, SYS$LIBRARY, SYS$MESSAGE, SYS$SYSTEM, SYS$TEST, and SYS$EXAMPLES may contain previous versions of Compaq BASIC files. These files are replaced during the installation with new files, but the old files are not automatically purged. Purging is recommended. In response to the purging prompt, press Return or enter Y to purge the files, or enter N to keep them.

12. **Respond to license registration queries.**

Compaq BASIC supports the OpenVMS License Management Facility (LMF). The installation procedure displays license information about Compaq BASIC. It asks whether you have registered and loaded your Product Authorization Key (PAK) for each product. The following is an example of the information and the queries presented by the installation procedure:

```
Product:      BASIC
Producer:     DEC
Version:      3.n
Release Date: dd-mmm-yyyy

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

If you have not registered and loaded your PAK, you must answer NO to this question. You have to register and load a PAK to successfully complete the installation (see Section 1.1). If you have not done so, you should stop the installation, register and load your PAK, and then restart the installation.

13. **Read informational messages.**

At this point, the installation procedure displays a number of informational messages that report on the progress of the installation. There are no further questions. If the installation procedure has been successful up to this point, VMSINSTAL moves the new or modified files to their target directories, updates help files, and updates DCL tables, if necessary.

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

The SYS$HELP:HELPLIB.HLB and SYS$LIBRARY:DCLTABLES.EXE files are updated to include the new versions of the Compaq BASIC help text and the BASIC command-line definition.

Also, if you answered Y in response to the prompt that requests a file purge, previous versions of the Compaq BASIC files are now purged.

14. **Observe the IVP.**

    VMSINSTAL now places the IVP files into the directory SYS$TEST and invokes the IVP to verify that Compaq BASIC was installed successfully. You can also run the IVP independently, after Compaq BASIC is installed, to verify that the software is available on your system. You might need to run the IVP after a system failure to make sure that users can access Compaq BASIC. You can do this by invoking the following command procedure:

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

    If Compaq BASIC was installed successfully, the IVP displays the following:

    ```
    %VMSINSTAL-I-IVPSUCCESS, Compaq BASIC V3.n Installation test PASSED
    The Compaq BASIC V3.n IVP has succeeded!
    ```

15. **End the installation procedure.**

    The end of the installation is indicated by the following message:

    ```
    Installation of BASIC V3.n completed at hh:mm

    VMSINSTAL procedure done at hh:mm
    ```

    Depending on whether you specified parameters on the VMSINSTAL command line, the `* Products:` prompt or the DCL prompt `($)` may appear. If the `* Products:` prompt appears, you can return to the DCL prompt `($)` by pressing Ctrl/Z.

    VMSINSTAL deletes or changes entries in the process symbol tables during the installation. Therefore, if you are going to continue using the installation account (such as SYSTEM) and you want to restore these symbols, you should log out and log in again.

3
After Installing Compaq BASIC

After Compaq BASIC is installed, it can be invoked by all users with the BASIC command.

The installation procedure modifies the DCL command table so that the BASIC command is recognized and processed. However, the previous command table is still in effect for those users who are currently logged in. All logged-in users who want to use the BASIC command must log out and log in again, or use the following DCL command:

```
$ SET COMMAND /TABLES=SYS$LIBRARY:DCLTABLES
```

You can perform the following tasks after Compaq BASIC is installed:

- Running the Installation Verification Procedure (IVP) separately
- Making the product usable in an Open VMScluster environment

3.1 Running the Installation Verification Procedure Separately

You usually run the Installation Verification Procedure (IVP) during installation. If you have system problems and want to run the IVP separately to ensure the integrity of installed files, use the following command:

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

3.2 Making Compaq BASIC Usable in an Open VMScluster Environment

If you want to run Compaq BASIC on multiple nodes of an Open VMScluster environment, first check to see that you have the appropriate software license (see Section 1.1). Then, perform the following steps after you install Compaq BASIC:

1. Enter the LICENSE LOAD command to activate the license on each node on which Compaq BASIC is to be executed.

2. Use the OpenVMS System Management (SYSMAN) utility to execute a set of commands on all cluster nodes, whether or not the nodes are licensed to use Compaq BASIC; failure to do so may cause unexpected errors for users.

Note

If you are using a dual-architecture (VAX and Alpha 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 the OpenVMS system management documentation.

While logged in as SYSTEM, or as another user name that has the SETPRV privilege or the CMKRNL and SYSPRV privileges, use SYSMAN to update the version of DCLTABLES.EXE available, as follows:

```
$ RUN SYS$SYSTEM:SYSMAN
SYSMAN> SET ENVIRONMENT/CLUSTER
%SYSMAN-I-ENV, current command environment:
        Clusterwide on local cluster
        Username SYSTEM       will be used on nonlocal nodes
SYSMAN> DO INSTALL REPLACE SYS$LIBRARY:DCLTABLES.EXE
%SYSMAN-I-OUTPUT, command execution on node NODE1
%SYSMAN-I-OUTPUT, command execution on node NODE2
```

SYSMAN will cause each DO command to be executed on all nodes of the local cluster.

3. If Compaq BASIC is installed as a known image, then do the following:

```
SYSMAN> DO INSTALL REPLACE SYS$SYSTEM:BASIC.EXE
%SYSMAN-I-OUTPUT, command execution on node NODE1
%SYSMAN-I-OUTPUT, command execution on node NODE2
```

4. If the Compaq BASIC messages file is installed as known image, then do the following:

```
SYSMAN> DO INSTALL REPLACE SYS$MESSAGE:BASIC$MSG.EXE
%SYSMAN-I-OUTPUT, command execution on node NODE1
%SYSMAN-I-OUTPUT, command execution on node NODE2
```

5. Exit from SYSMAN:

```
SYSMAN> EXIT
$
```

3.3 Setting User Account Requirements

To work with Compaq BASIC, user accounts on your system must have certain privileges.

3.3.1 User Account Privileges

To use Compaq BASIC, each account must have at least the TMPMBX and NETMBX privileges. Use the OpenVMS Authorize utility to determine whether users have the privileges they require.

A
Sample Installation

This appendix provides a sample listing for the Compaq BASIC full development kit.

A.1 Full Development Kit

Example A–1 is a sample installation for the Compaq BASIC full development kit.

This installation was performed on an OpenVMS VAX Version V7.2 system that had no previous version of Compaq BASIC installed. Depending on which layered products you have on your system, you might see additional messages and questions when you perform your installation.

This installation assumes that DECnet has been shut down and that OPTIONS N is specified to print the release notes.

Example A–1 Sample Compaq BASIC Installation

```
$ @sys$update:vmsinstal BASIC039 DKA100:[BASIC] options n

        OpenVMS VAX Software Product Installation Procedure V7.2

It is dd-mmm-yyyy at hh:mm.
Enter a question mark (?) at any time for help.
* Are you satisfied with the backup of your system disk [YES]?

The following products will be processed:
  BASIC V3.9

        Beginning installation of BASIC V3.9 at hh:mm
```

(continued on next page)

Example A–1 (Cont.) Sample Compaq BASIC Installation

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

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

    Additional Release Notes Options:

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

* Select option [2]: 4
* Do you want to continue the installation [NO]? y
%VMSINSTAL-I-RELMOVED, Product's release notes have been moved to SYS$HELP.


          Compaq BASIC V3.9 Installation Procedure


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%VMSINSTAL-I-RELNOTMOV, A PostScript version of the release notes has been moved
 to SYS$HELP.


   There are three possible installation options. They are described
   as follows:

   1) Perform a complete installation of Compaq BASIC.

   2) Install OpenVMS VAX system definitions text library only (10-45 minutes).

   3) Obtain a copy of the Compaq BASIC message text for modification.

* Which option do you want to use [1]:

* Do you want to install the Compaq BASIC HELP files [YES]?
* Do you want to install the OpenVMS VAX system definitions (10-45 min.) [NO]? y
* Do you want to install the sample graphics programs [NO]? y
* Do you want to install the Motif definitions [YES]?
```

(continued on next page)

Example A–1 (Cont.) Sample Compaq BASIC Installation

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

        Product:      BASIC
        Producer:     DEC
        Version:      3.9
        Release Date: dd-mmm-yyyy

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

   No further questions will be asked.  The Installation will take
   10 - 45 more minutes depending upon options chosen, configuration,
   and system activity.

%VMSINSTAL-I-RESTORE, Restoring product save set B ...
%VMSINSTAL-I-SYSDIR, This product creates system disk directory  VMI$ROOT:[SYSTE
ST.BASIC].

    ******************************************************************
    If you have Digital GKS for OpenVMS VAX V2.0 or later on your system,
    Compaq BASIC for OpenVMS VAX systems allows you to use graphics language
    statements. The procedure:

        SYS$SYSROOT:[SYSTEST.BASIC]BASIC$GRAPHICS_IVP.COM

    will verify that VAX BASIC graphics capabilities work on your system.
    You must execute this procedure on a terminal with graphics capabilities.
    ******************************************************************

%VMSINSTAL-I-INSHELP, Installing Compaq BASIC Help files
%VMSINSTAL-I-INSSAMPLE, Installing sample programs and PICTURE libraries
%VMSINSTAL-I-RESTORE, Restoring product save set D ...
%VMSINSTAL-I-SYSDIR, This product creates system disk directory  VMI$ROOT:[SYSHL
P.EXAMPLES.BASIC].

    ******************************************************************
    A number of sample programs demonstrating BASIC graphics statements
    have been copied to [SYSHLP.EXAMPLES.BASIC].

    Read [SYSHLP.EXAMPLES.BASIC]BASIC_EXAMPLES.TXT for information on the
    sample programs provided.
    ******************************************************************

%VMSINSTAL-I-INSMOTIF, Installing Motif definitions and examples
%VMSINSTAL-I-RESTORE, Restoring product save set C ...

    ******************************************************************
    The Motif bindings for BASIC files, DECW$MOTIF.BAS and
    DECW$MOTIF_DEFS.BAS, have been copied to SYS$LIBRARY.

    The BASIC$HELLOMOTIF and BASIC$MOTIFBURGER example programs
    have been copied to DECW$EXAMPLES.
    ******************************************************************
```

(continued on next page)

Example A–1 (Cont.) Sample Compaq BASIC Installation

```
%VMSINSTAL-I-INSSTARLET, Installing Compaq BASIC system definitions
%VMSINSTAL-I-INSSTARLT1, Requires approximately 15 minutes
%VMSINSTAL-I-MOVEFILES, Files will now be moved to their target directories...

%VMSINSTAL-I-RUNIVP, Executing installation verification procedure


Executing the Compaq BASIC V3.9 Installation Verification Procedure


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%VMSINSTAL-I-IVPSUCCESS, Compaq BASIC V3.9 Installation test PASSED

The Compaq BASIC V3.9 IVP has succeeded!


        Installation of BASIC V3.9 completed at hh:mm


        VMSINSTAL procedure done at hh:mm

$
```

B

Files Installed on Your System

B.1 Installed Files

The Compaq BASIC installation procedure installs a number of files on your system and defines some logical names. The first list shows the files installed during installation. The second list shows the files modified by the installation.

Files Provided by the Installation

SYS$COMMON:[SYSEXE]BASIC.EXE;
SYS$COMMON:[SYSHLP.EXAMPLES.BASIC]BASIC$GRAPHICS.OLB;
SYS$COMMON:[SYSHLP.EXAMPLES.BASIC]BASIC$GRAPHICS.TLB;
SYS$COMMON:[SYSHLP.EXAMPLES.BASIC]BASIC_EXAMPLES.COM;
SYS$COMMON:[SYSHLP.EXAMPLES.BASIC]BASIC_EXAMPLES.TXT;
SYS$COMMON:[SYSHLP.EXAMPLES.BASIC]CLOCK.BAS;
SYS$COMMON:[SYSHLP.EXAMPLES.BASIC]
CREATE_SWAN_SWIM.BAS;
SYS$COMMON:[SYSHLP.EXAMPLES.BASIC]DRAW_HISTOGRAM.BAS;
SYS$COMMON:[SYSHLP.EXAMPLES.BASIC]ELLIPSE.BAS;
SYS$COMMON:[SYSHLP.EXAMPLES.BASIC]FONT_DEMO.BAS;
SYS$COMMON:[SYSHLP.EXAMPLES.BASIC]PARTY.BAS;
SYS$COMMON:[SYSHLP.EXAMPLES.BASIC]PIE_DRIVER.BAS;
SYS$COMMON:[SYSHLP.EXAMPLES.BASIC]PLOT_DRIVER.BAS;
SYS$COMMON:[SYSHLP.EXAMPLES.BASIC]ROTATED_SQUARES.BAS;
SYS$COMMON:[SYSHLP.EXAMPLES.BASIC]SINE.BAS;
SYS$COMMON:[SYSHLP.EXAMPLES.DECW]BASIC$HELLOMOTIF.BAS;
SYS$COMMON:[SYSHLP.EXAMPLES.DECW]BASIC$HELLOMOTIF.UIL;
SYS$COMMON:[SYSHLP.EXAMPLES.DECW]BASIC$MOTIFBURGER.BAS;
SYS$COMMON:[SYSHLP.EXAMPLES.DECW]BASIC$MOTIFBURGER.UIL;
SYS$COMMON:[SYSHLP.EXAMPLES.DECW]
BASIC$MOTIFBURGER_DEFS.BAS;
SYS$COMMON:[SYSHLP]BASIC039.RELEASE_NOTES;
SYS$COMMON:[SYSHLP]BASIC039_RELEASE_NOTES.PS;
SYS$COMMON:[SYSHLP]BASICHELP.HLB;
SYS$COMMON:[SYSLIB]BASIC$STARLET.TLB;

SYS$COMMON:[SYSLIB]DECW$MOTIF.BAS;
SYS$COMMON:[SYSLIB]DECW$MOTIF_DEFS.BAS;
SYS$COMMON:[SYSMSG]BASIC$MSG.EXE;
SYS$COMMON:[SYSTEST]BASIC$IVP.COM;
SYS$COMMON:[SYSTEST.BASIC]BASIC$GRAPHICS_IVP.BAS;
SYS$COMMON:[SYSTEST.BASIC]BASIC$GRAPHICS_IVP.COM;
SYS$COMMON:[SYSTEST.BASIC]BASIC$IVP.BAS;

Files Modified by the Installation

SYS$COMMON:[SYSHLP]HELPLIB.HLB;
SYS$COMMON:[SYSLIB]DCLTABLES.EXE;
SYS$COMMON:[SYSMGR]VMS$IMAGES_MASTER.DAT

C
Recovering from Errors

This appendix provides information to help you deal with failures or errors that might occur during product installation or product use.

C.1 Failures During Product Installation

If VMSINSTAL detects any problems during the installation, it notifies you and asks if you want to continue the installation. In some instances, you can enter Y to continue. To stop the installation process and correct the situation, enter N or press Return. Then, correct the problem and restart the installation.

If errors occur during the installation itself or when the Installation Verification Procedure (IVP) is running, VMSINSTAL displays failure messages. If the installation fails, you see the following message:

```
%VMSINSTAL-E-INSFAIL, The installation of Compaq BASIC Version 3.9 has failed!
```

If the IVP fails, you see these messages:

```
The Compaq BASIC Version 3.9 IVP has failed!

%VMSINSTAL-E-IVPFAIL, Compaq BASIC Version 3.9 Installation test FAILED.
```

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

- The operating system version is incorrect.
- A prerequisite software version is incorrect.
- Quotas necessary for successful installation are insufficient.
- System parameter values for successful installation are insufficient.
- The OpenVMS help library is currently in use.
- The product license has not been registered and loaded.

For descriptions of the error messages generated by these conditions, see the OpenVMS documentation on system messages, recovery procedures, and OpenVMS software installation. If you are notified that any of these conditions exist, you should take the appropriate action as described in the message.

For information on installation requirements, see Chapter 1.

C.2 Failures During Product Use

If you encounter a problem while using Compaq BASIC, and your software contract or warranty agreement entitles you to telephone support, call Compaq.

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 previously indicated or follow alternate instructions provided by Compaq for reporting SPD nonconformance problems.

When you submit a problem report, kindly take the following steps:

1. Describe as accurately as possible the circumstances and state of the system when the problem occurred. Include in the description the version number of the OpenVMS system and Compaq BASIC being used. Demonstrate the problem with specific examples.
2. Reduce the problem to as small a size as possible.
3. Remember to include listings of any command files, INCLUDE files, relevant data files, and so forth.
4. Provide a listing of the program.
5. If the program is longer than 50 lines, submit a copy of it electronically or on machine-readable media (floppy diskette or magnetic tape). If necessary, also submit a copy of the program library used to build the application.