VAX COBOL GENERATOR Installation Guide

Order Number: AA–GR32C–TE

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This document contains instructions for installing the VAX COBOL GENERATOR on the VMS operating system. It also explains how to read the online release notes before or after installing the product. This document applies to the VAX COBOL GENERATOR Version 1.3 and higher maintenance updates.

Revision/Update Information:	This revised manual supersedes the *VAX COBOL GENERATOR Installation Guide Version 1.1*.
Operating System and Version:	VMS Version 5.0 or higher. Future maintenance releases may require higher versions.
Software Version:	VAX COBOL GENERATOR Version 1.3

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Preface

This document describes how to install the VAX COBOL GENERATOR on the VMS operating system. It is intended for system managers. This document applies to the VAX COBOL GENERATOR Version 1.3 and all maintenance updates in that version. A major version number is represented by the digits to the left of the decimal point, and the maintenance update version number is indicated by the digits to the right of the decimal point.

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

At the back of this document are two Reader's Comments forms. If you have any comments about this document, fill out a form and mail it; your comments will be considered for the next revision of the installation guide.

For more information about installing the VAX COBOL GENERATOR on VMS systems, refer to your processor-specific installation/operations guide.

The installation procedure is described step by step and is, for the most part, self-explanatory. The system prompts you to answer questions and to change volumes, and waits for you to tell it to continue.

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

Preparing to Install the VAX COBOL GENERATOR

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

Distribution media must be mounted in numerical order. The installation procedure prompts you to mount the volumes. For more information on how to mount distribution media, refer to your processor-specific installation/operations guide.

This guide also details several options to the installation procedure.

Prerequisite Software

The VAX COBOL GENERATOR Version 1.3 requires VMS Version 5.0 or higher.

To compile the generated code, you need to install VAX COBOL Version 4.2 or higher.

To use VAX Rdb/VMS with the Generator, you need to install VAX Rdb/VMS Version 3.0 or higher.

To use the VAX Common Data Dictionary (CDD) with the Generator, you need to install VAX CDD. If you intend to use the dependency recording feature of VAX CDD/Plus, you need to install a version of VAX CDD/Plus higher than Version 4.0.

If you intend to use DECterm windows with your workstation, you need to install DECwindows Version 1.0 or higher.

Note that you must always install CDDSHR.EXE using the VMS Install Utility (see the Installing the VAX COBOL GENERATOR as a Shared Image section).

Accessing the Online Release Notes

The VAX COBOL GENERATOR provides online release notes. The prompt to display or print the release notes before installation appears in step 5 of the installation procedure when you invoke VMSINSTAL with the OPTIONS N parameter.

To obtain the release notes after the installation, type or print the file SYS$HELP:GEN013.RELEASE_NOTES. Online help also directs you to the release notes file. After the installation, type the following:

```
$ HELP GEN RELEASE_NOTES RETURN
```

Installation Procedure Requirements

The installation should take approximately 5 to 30 minutes, depending on the type of media and your system configuration. Before installing the VAX COBOL GENERATOR, you must have the following resources and privileges:

- SETPRV privileges, or CMKRNL, WORLD, and SYSPRV privileges
- A minimum of 5500 blocks of free disk space during installation; 4600 blocks are used after installation
- A minimum of 500 bytes of physical memory
- A minimum of 350 free global pages plus the size (in number of disk blocks) of the file SYS$LIBRARY:DCLTABLES.EXE at installation; for most efficient operation, you will need a total of 500 free global pages plus the size of SYS$LIBRARY:DCLTABLES.EXE after installation
- A minimum of 5 free global sections at installation; 5 global sections are used after installation

NOTE

You must ensure that your system has the necessary global page and global section SYSGEN quotas for the installation. Failure to do so could cause the DCL tables to be corrupted in some situations.

To determine the number of available global pages on your system, invoke the VMS Install Utility (INSTALL) by typing the following command:

```
$  INSTALL :==$INSTALL/COMMAND_MODE [RETURN]
$  INSTALL [RETURN]
```

Then type the following command:

```
INSTALL>  LIST/GLOBAL/SUMMARY [RETURN]

        Summary of Local Memory Global Sections

?? Global Sections Used,  ???/???? Global Pages Used/Unused

INSTALL>  EXIT [RETURN]
```

When you issue this command, the system displays a summary of the number of global sections used, the number of global pages used, and the number of global pages unused. To exit from the VMS Install Utility, type the EXIT command.

The VAX COBOL GENERATOR requires approximately 350 global pages. If fewer than 350 pages are available, you can delete an existing known image with the VMS Install Utility, or you can increase the GBLPAGES system parameter with the VMS System Generation Utility (SYSGEN) by editing the file SYS$SYSTEM:MODPARAMS.DAT and then invoking the AUTOGEN command procedure, SYS$UPDATE:AUTOGEN.COM. For more information on the AUTOGEN command procedure, refer to your processor-specific installation/operations guide.

You can determine the number of available global sections by invoking SYSGEN as follows:

```
$  RUN SYS$SYSTEM:SYSGEN [RETURN]
SYSGEN>  USE CURRENT [RETURN]
SYSGEN>  SHOW GBLSECTIONS [RETURN]

SYSGEN>  EXIT [RETURN]
```

The last number displayed is the maximum number of global sections. Compare this number to the number of global sections in use displayed by the VMS Install Utility. The VAX COBOL GENERATOR requires 5 global sections. Therefore, if the number of global sections used plus 5 exceeds the current number of global sections, you must increase the number of available global sections before you can install the VAX COBOL GENERATOR. To increase the number, you must

increase the GBLSECTIONS system parameter with SYSGEN by editing the file SYS$SYSTEM:MODPARAMS.DAT and then invoking the SYS$UPDATE:AUTOGEN.COM procedure. For more information on the AUTOGEN.COM procedure, refer to your processor-specific installation/
operations guide.

If the number of global sections used plus 5 is less than the maximum number of global sections, you can exit from SYSGEN and continue.

User Account Quotas and Privileges

To use the VAX COBOL GENERATOR, each account must have TMPMBX and NETMBX privileges and the following minimum requirements:

- AST limit (ASTLM) 24 (minimum)
- Buffered I/O quota (BIOLM) 18 (minimum)
- Buffered I/O byte count quota (BYTLM) 4046 (minimum); a minumum of 18,000 is required if you are using a VT330 or VT340 terminal or running the terminal emulator
- Direct I/O quota (DIOLM) 18 (minimum)
- Enqueue quota (ENQLM) 500 (minimum)
- Paging file quota (PGFLQUOTA) 15,000 pages (minimum)
- Working set size (WSDEF) 300 pages (minimum)

Use the VMS Authorize Utility (AUTHORIZE) to compare the current values of these quotas with the requirements for the VAX COBOL GENERATOR. For example, the account used in the following example is the SYSTEM account:

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

To change the values of these quotas, use the VMS Authorize Utility's MODIFY command. For more information, see the VMS Authorize Utility Manual.

VMS License Management Facility

The VMS License Management Facility (LMF) is available with Version 5.0 of the VMS operating system. If you are installing the VAX COBOL GENERATOR on a VMS Version 5.0 system, you must register your VAX COBOL GENERATOR software license.

The license registration information you need is contained in the Product Authorization Key (PAK) that is shipped with VAX COBOL GENERATOR. The PAK is a paper certificate that contains information about the license you have to run a particular piece of software.

During the installation, you are asked if you have registered the VAX COBOL GENERATOR license and loaded the appropriate authorization key. You must register and load your license for VAX COBOL GENERATOR before you start the installation in order to run the Installation Verification Procedure (IVP) and use the software.

To register a license under VMS Version 5.0, first log in to the system manager's account, SYSTEM. You then have a choice of two ways to perform the registration:

- Invoke the SYS$UPDATE:VMSLICENSE.COM procedure. When it prompts you for information, respond with data from your Product Authorization Key.
- Issue the DCL command LICENSE REGISTER with the appropriate qualifiers that correspond to information on the PAK.

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

Using VMSINSTAL

After you log in to a privileged account to install the VAX COBOL GENERATOR, invoke VMSINSTAL, the command procedure that installs this product. An example of this procedure is shown in steps 1 and 2 of the Installing the VAX COBOL GENERATOR section.

The VMSINSTAL command procedure has the following form:

```
$ @SYS$UPDATE:VMSINSTAL GEN013 ddcu: [OPTIONS N]
```

ddcu:

Represents a device name where the distribution volumes will be mounted for the VAX COBOL GENERATOR installation media, where *dd* is the device code, *c* is the controller code, and *u* is the unit number. It is not necessary to use the console drive to install VAX COBOL GENERATOR. If you do use the console drive, you should replace any media you removed from the drive. CSA1: is the device name used in examples in this document.

OPTIONS N

Is an optional parameter you should provide if you want to be prompted to display or print the release notes. If you do not include the OPTIONS N parameter, VMSINSTAL does not prompt you to display or print the release notes. VMSINSTAL permits the use of several other options. For more information on the other options, see your processor-specific installation/operations guide.

If you do not supply the first two parameters, VMSINSTAL prompts you for the product and device names. If you wish to be prompted for the product and device names and to display or print the release notes, type the following:

```
$  @SYS$UPDATE:VMSINSTAL RETURN
```

When you invoke VMSINSTAL, it checks the following:

- Whether you logged in to a privileged account. DIGITAL recommends that you install software from the system manager's account with your default device and directory set to SYS$UPDATE.
- Whether you have adequate quotas for installation. VMSINSTAL checks for the following quota values:
  - ASTLM = 24
  - BIOLM = 18
  - BYTLM = 4046 or 18000
  - DIOLM = 18
  - ENQLM = 30
  - FILLM = 20

  VMSINSTAL then checks whether the following conditions exist:
  - Whether DECnet is up and running
  - Whether any users are logged in to the system

  If VMSINSTAL detects either of these conditions, you will be asked whether you want to continue the installation. If you want to continue, type YES. If you want to stop the installation, press RETURN.

The VAX COBOL GENERATOR Version 1.3 requires a Product Authorization Key (PAK). You must register the information contained in the PAK that is shipped with VAX COBOL GENERATOR by using either the VMS License command procedure (VMSLICENSE) or the LICENSE REGISTER and LICENSE LOAD commands as described in the previous section, VMS License Management Facility, and in the *VMS License Management Utility Manual*.

Installing the VAX COBOL GENERATOR

This section contains excerpts from the installation procedure and explains each step. Note that defaults appear in brackets throughout the installation procedure.

To abort the installation procedure at any time, press CTRL/Y. When you press CTRL/Y, the installation procedure deletes all files it has created up to that point and then returns you to the DCL level. If you want to retry the installation procedure after pressing CTRL/Y, you must proceed from step 2.

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

```
RETURN
Username:  SYSTEM   RETURN
Password:           RETURN
$  SET DEFAULT SYS$UPDATE  RETURN
```

Step 2: Invoke VMSINSTAL.

```
$  @VMSINSTAL GEN013 CSA1: OPTIONS N  RETURN

      VAX/VMS Software Product Installation Procedure VX.X


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]?
RETURN
```

If you are satisfied with the backup of your system disk, press RETURN. Otherwise, type NO and press RETURN to discontinue the installation.

Step 3: Insert the first installation kit volume.

```
Please mount the first volume of the set on CSA1:.
* Are you ready?  YES RETURN
The following products will be processed:

  VAX COBOL GENERATOR V1.3


    Beginning installation of VAX COBOL GENERATOR V1.3 at hh:mm

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

To indicate that you want to continue the installation, mount volume 1, type YES, and then press RETURN.

Step 4: Insert the subsequent installation kit volumes.

```
%BACKUP-I-READYREAD, mount volume 2 on _CSA1: for reading

Enter "YES" when ready:  YES RETURN
```

VMSINSTAL prompts you to insert the next volume and waits for you to type YES after inserting it. If you type NO, VMSINSTAL displays the prompt again. This prompt is displayed only if your installation kit contains more than one volume.

Step 5: Select a release notes option.

This step applies only if you specified OPTIONS N in step 2.

```
Release Notes Options:

    1. Display release notes
    2. Print release notes
    3. Both 1 and 2
    4. Copy release notes to SYS$HELP
    5. Do not display, print or copy release notes

* Select option [3]:  RETURN
```

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

If you select option 2, VMSINSTAL prompts you for a queue name. Either type a queue name or press RETURN to send the file to the default output print device.

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

If you select option 3, VMSINSTAL displays the release notes on line immediately. You can terminate the display at any time by pressing CTRL/C. VMSINSTAL then prompts you for a queue name. Either type a queue name or press RETURN to send the file to the default output print device. The VAX COBOL GENERATOR release notes are then copied to SYS$HELP:GEN013.RELEASE_NOTES.

If you select option 4, VMSINSTAL copies the release notes to SYS$HELP immediately.

If you select option 5, VMSINSTAL does not display, print, or copy the release notes; you usually select this option when you want to terminate the installation.

NOTE

This version of the release notes file installed by VMSINSTAL is labeled with the current product name and version number. Take care not to delete release notes for previous versions of the VAX COBOL GENERATOR.

Next, VMSINSTAL displays the following prompt:

```
* Do you want to continue the installation [N]?:  Y RETURN
%VMSINSTAL-I-RELMOVED, The product release notes have been successfully
    moved to SYS$HELP.
```

If you want to continue the installation, type YES and press RETURN. If you type NO or press RETURN, VMSINSTAL discontinues the installation. In either case, VMSINSTAL moves the release notes to SYS$HELP.

Step 6: Respond to license registration queries.

The VAX COBOL GENERATOR supports the VMS License Management Facility (LMF). The installation procedure displays license information about your product and then asks if you have registered and loaded your authorization key for VAX COBOL GENERATOR. The following is an example of such information:

```
Product:       COBOL-GENERATOR
Producer:      DEC
Version:       1.3
Release Date:  27-JAN-1989

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

If you have not registered and loaded your authorization key, you must answer NO to this question. You have to register and load your product authorization key to successfully complete the installation. If you have not done so, you should stop the installation, register and load your product authorization key, and then restart the installation.

Step 7: Select installation options.

The Installation Verification Procedure (IVP) runs tests to check whether the installation procedure was successful. VMSINTAL provides the following prompt:

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

Press RETURN to run the IVP after the installation. If you do not want to run the IVP, type NO in response to the prompt.

Step 8: Select purge option.

```
This installation will add the following files:

SYS$SYSTEM:GEN.EXE
SYS$SYSTEM:GEN$TRANSLATE.COM
SYS$HELP:GENHELP.HLB
SYS$HELP:GEN013.RELEASE_NOTES
SYS$TEST:GEN$IVP.COM
SYS$TEST:GEN$IVP.JOU
SYS$TEST:GEN$IVP.GEN
SYS$LIBRARY:GEN$STROKE_FONT.FNT
SYS$EXAMPLES:GEN$EXAMPLE.GEN
SYS$EXAMPLES:GEN$ARTICLE1.LN03
SYS$EXAMPLES:GEN$ARTICLE1.LINE
SYS$EXAMPLES:GEN$ARTICLE2.LN03
SYS$EXAMPLES:GEN$ARTICLE2.LINE
SYS$EXAMPLES:GEN$DESIGN.GEN
SYS$EXAMPLES:GEN$DESIGN.SLS
SYS$EXAMPLES:GEN$MISSING.GEN

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

RETURN

The directories SYS$EXAMPLES, SYS$HELP, SYS$LIBRARY, SYS$MANAGER, and SYS$SYSTEM may contain previous versions of VAX COBOL GENERATOR 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 to purge the files or type NO to keep them.

Step 9: Read informational messages.

The VAX COBOL GENERATOR installation procedure produces a number of informational messages that report on the progress of the installation. No more questions are required to complete the installation.

```
No further questions will be asked to complete the installation
```

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

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

If the installation procedure is successful, the new or modified files are 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 VAX COBOL GENERATOR HELP text and the GENERATE/COBOL command line definition.

Step 10: Observe the installation verification procedure.

If you chose to run the IVP in step 7, VMSINSTAL now calls the IVP to verify that the VAX COBOL GENERATOR was installed successfully.

Step 11: End the installation procedure.

```
   Installation of VAX COBOL GENERATOR VX.X completed at hh:mm

   VMSINSTAL procedure done at hh:mm

$  LOGOUT  RETURN
SYSTEM     logged out at dd-mmm-yyyy hh:mm:ss.ss
```

When the product installation procedure is complete, you can choose to install more products, or to log out (as shown here.) If you removed any media from the console drive before beginning the installation, you should replace it now.

Note that VMSINSTAL deletes or changes entries in the process symbol tables during the installation. Therefore, if you are going to continue using the system manager's account and you want to restore these symbols, you should log out and log in again.

After the Installation

If the VAX COBOL GENERATOR will be used on multiple nodes in a VAXcluster environment, you must load the software license (described in the Product Authorization Key (PAK)) on each node in the VAXcluster. Issue the LICENSE LOAD command to activate the license on each node in the VAXcluster on which the VAX COBOL GENERATOR is to be executed as described in the *VMS License Management Utility Manual*.

The VAX COBOL GENERATOR is now installed and can be invoked by all users with the GENERATE/COBOL command.

The installation procedure modifies the DCL command table so that the GENERATE/COBOL 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 GENERATE/COBOL command must log out of the system and log in again.

Before you can invoke the VAX COBOL GENERATOR for an interactive session, you must define your terminal type in your LOGIN.COM file. Depending on your terminal type, enter one of the following lines in your LOGIN.COM file:

```
$ DEFINE GEN$TERMINAL_TYPE VT240
$ DEFINE GEN$TERMINAL_TYPE VT241
$ DEFINE GEN$TERMINAL_TYPE VT330
$ DEFINE GEN$TERMINAL_TYPE VT340
$ DEFINE GEN$TERMINAL_TYPE VSII
$ DEFINE GEN$TERMINAL_TYPE DECTERM
$ DEFINE GEN$TERMINAL_TYPE DECTERM_COLOR
```

Use VSII if you are using the Generator on a VAXstation. Use DECTERM or DECTERM_COLOR if you are using the Generator on a VAXstation with the terminal emulator and DECwindows.

If the VAX COBOL GENERATOR will be used extensively on your system, you can reduce system overhead and memory requirements by installing it as a shared image using the VMS Install Utility. For more information, see the section Installing the VAX COBOL GENERATOR as a Shared Image.

Running the Installation Verification Procedure Separately

The Installation Verification Procedure (IVP) is usually run at installation. If you want to run the IVP separately to ensure the integrity of installed files if system problems occur, execute the following command procedure:

```
$  @SYS$TEST:GEN$IVP.COM RETURN

    This is the COBOL GENERATOR Installation Verification Procedure.
    The Generator session should run without errors and a COBOL
    program will be produced. If the VAX COBOL compiler is installed on
    the system, the program will be compiled and run.

    Generating a source file . . .

    Compiling the generated source . . .

    Linking . . .

    Running the image . . .

VAX COBOL GENERATOR V1.3 has been successfully installed.

        Installation of GEN V1.3 completed at 08:19
```

If the IVP fails for any reason, the following messages are displayed:

```
The VAX COBOL GENERATOR V1.3 Installation Verification Procedure failed.

%VMSINSTAL-E-IVPFAIL, The IVP for VAX COBOL GENERATOR V1.3 has failed.
```

Error Conditions

If the installation procedure fails for any reason, a message like the following is displayed:

```
%VMSINSTAL-E-INSFAIL, The installation of VAX COBOL GENERATOR V1.3 has failed.
```

An error during the installation can occur if one or more of the following conditions exist:

- Operating system version is incorrect
- Quotas necessary for successful installation are insufficient (see the Installation Procedure Requirements section)

- Process quotas required by VMSINSTAL are incorrect (see the Using VMSINSTAL section)
- The VMS HELP library is currently in use
- The product was registered incorrectly or not registered

For descriptions of the error messages generated by these conditions, see the *VMS System Messages and Recovery Procedures Reference Volume*, your processor-specific installation/operations guide, or the *VMS License Management Utility Manual*.

If you are notified that any of these conditions exist, you should take the appropriate action as described in the message. You may need to change a system parameter or increase an authorized quota value.

If the installation fails, you must restart the installation procedure from step 2. If the installation fails due to an IVP failure, contact a DIGITAL field service representative.

Installing the VAX COBOL GENERATOR as a Shared Image

If the VAX COBOL GENERATOR will be used extensively on your system, you can reduce the system overhead and memory requirements by installing it as a shared image. To perform the installation on a system that is currently running, use the VMS Install Utility while you are logged in to a privileged account. If errors occur, consult the *VMS System Messages and Recovery Procedures Reference Volume*.

First, determine the number of available global pages and global sections on your system. See the Installation Procedure Requirements section for information on how to do this.

Then, invoke the VMS Install Utility and install the VAX COBOL GENERATOR as a shared image, as follows:

```
$  RUN SYS$SYSTEM:INSTALL RETURN

INSTALL>  ADD SYS$SYSTEM:GEN.EXE/OPEN/SHARED  RETURN
INSTALL>  EXIT RETURN
```

Then, update the system startup file to install the VAX COBOL GENERATOR.

To ensure that the VAX COBOL GENERATOR is installed as a shared image each time the system is bootstrapped, include the following lines in SYS$MANAGER:SYSTARTUP_V5.COM (the site-specific startup file):

```
$ INSTALL :==$INSTALL/COMMAND_MODE
$ INSTALL
ADD SYS$SYSTEM:GEN.EXE/OPEN/SHARED
EXIT
```

Maintenance Updates

DIGITAL may periodically issue maintenance updates of the VAX COBOL GENERATOR. Each update consists of an installation kit. You should install this kit as described in this document or in any documentation that may accompany the maintenance update.

Each time a maintenance update is released, the version number changes. For example, if the current version is 1.0, the version number of the first maintenance update will be 1.1. In addition, the maintenance update includes new release notes. The release notes describe the changes that have been made to the VAX COBOL GENERATOR since the previous release.

The update release notes are provided on line. You should read the release notes when you first install the VAX COBOL GENERATOR; they are also accessible at any time after the product is installed. For information on reading the release notes at the time that you install the VAX COBOL GENERATOR, follow the installation procedure through step 5. To locate the release notes after the VAX COBOL GENERATOR is installed, display or print the file SYS$HELP:GEN013.RELEASE_NOTES, or type the following:

```
$  HELP GEN RELEASE_NOTES RETURN
```

Determining and Reporting Problems

If an error occurs while you are using the VAX COBOL GENERATOR and you believe that the error is caused by a problem with the VAX COBOL GENERATOR, take one of the following actions:

- If you purchased the VAX COBOL GENERATOR within the past 90 days and you think the problem is caused by a software error, submit a Software Performance Report (SPR).
- If you have a Basic or DECsupport Software Agreement, call your Customer Support Center. With these services, you receive telephone support that provides high-level advisory and remedial assistance. For more information, contact your local DIGITAL representative.
- If you have a Self-Maintenance Software Agreement, submit a Software Performance Report (SPR).

If you find an error in the VAX COBOL GENERATOR documentation, you should fill out and submit a Reader's Comments form from the back of the document in which the error was found. Include the section and page number where the error was found.

Sample Installation

This section contains a sample installation of the VAX COBOL GENERATOR. Note that this is only a sample. Sometimes the installation procedure is modified in maintenance updates of this product. Because this installation guide is not usually revised for maintenance updates, be sure to read the *Read Before Installing or Using the VAX COBOL GENERATOR* letter before you install this product. This letter notes any significant changes in the installation that vary from this sample.

```
$ @SYS$UPDATE:VMSINSTAL GEN013 CSA1: OPTIONS N RETURN

        VAX/VMS Software Product Installation Procedure V5.0

It is 19-SEP-1988 at 15:26.
Enter a question mark (?) at any time for help.

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

Please mount the first volume of the set on CSA1:
* Are you ready? YES RETURN

The following products will be processed:
  GEN V1.3

  Beginning installation of GEN V1.3 at 08:10

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

    Release Notes Options:
```

```
        1.  Display release notes
        2.  Print release notes
        3.  Both 1 and 2
        4.  Copy release notes to SYS$HELP
        5.  Do not display, print or copy release notes

* Select option [3] 2 RETURN

* Queue name [SYS$PRINT] RETURN
Job GEN013 (queue SYS$PRINT, entry 1456) started on SYS$LPA0

* Do you want to continue the installation? YES RETURN
%VMSINSTAL-I-RELMOVED , The product's release notes have been successfully
           moved to SYS$HELP.


        Product:      COBOL-GENERATOR
        Producer:     DEC
        Version:      1.3
        Release Date: 27-JAN-1989

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

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

 This installation procedure creates a new version of some or all
 of the following files:

SYS$SYSTEM:GEN.EXE
SYS$SYSTEM:GEN$TRANSLATE.COM
SYS$HELP:GENHELP.HLB
SYS$HELP:GEN013.RELEASE_NOTES
SYS$TEST:GEN$IVP.COM
SYS$TEST:GEN$IVP.JOU
SYS$TEST:GEN$IVP.GEN
SYS$LIBRARY:GEN$STROKE_FONT.FNT
SYS$EXAMPLES:GEN$EXAMPLE.GEN
SYS$EXAMPLES:GEN$ARTICLE1.LN03
SYS$EXAMPLES:GEN$ARTICLE1.LINE
SYS$EXAMPLES:GEN$ARTICLE2.LN03
SYS$EXAMPLES:GEN$ARTICLE2.LINE
SYS$EXAMPLES:GEN$DESIGN.GEN
SYS$EXAMPLES:GEN$DESIGN.SLS
SYS$EXAMPLES:GEN$MISSING.GEN


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

  No further questions will be asked to complete the installation.

%VMSINSTAL-I-RESTORE, Restoring product saveset B  . . .
%VMSINSTAL-I-MOVEFILES, Files will now be moved to their target directories . . .


        This is the COBOL GENERATOR Installation Verification Procedure.
        The Generator session should run without errors and a COBOL
        program will be produced. If the VAX COBOL compiler is installed on
        the system, the program will be compiled and run.
```

```
        Generating a source file . . .

        Compiling the generated source . . .

        Linking . . .

        Running the image . . .

VAX COBOL GENERATOR V1.3 has been successfully installed.

        Installation of GEN V1.3 completed at 08:19
```