BASEstar for VMS Installation Guide

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This manual describes installation prerequisites, installation procedures, and post-installation tasks for BASEstar for VMS.

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Preface

This manual provides instructions for installing BASEstar software.

Intended Audience

This manual is intended for system managers who install and maintain BASEstar software. Readers of this manual must have a thorough understanding of VMS operations to install a BASEstar system. To obtain a complete understanding of BASEstar configuration management before installation, refer to the *BASEstar for VMS Configuration and Tuning Guide*.

Document Structure

This document provides information needed to install BASEstar software:

- Chapter 1, Introduction provides a description of the BASEstar installation, software distribution kits, required hardware and software, preliminary installation steps, and VAXcluster installation overview.
- Chapter 2, Installation describes step-by-step installation of BASEstar software on a single node or on a VAXcluster system. This section also includes instructions for the optional installation of BASEstar library, utility, and device connection management software.
- Chapter 3, Post Installation describes post-installation tasks.
- Appendix A, Sample BASEstar Installations presents sample installations of BASEstar software.
- Appendix B, File Created During Installation lists all BASEstar files created during installation with their directory locations.

Conventions

The following conventions are used in this manual.

Convention	Meaning
Return	A symbol with a one- to six-character label or abbreviation indicates you press a key on the terminal (for example, Return).
Ctrl/X	The symbol Ctrl/X indicates that you hold down the key marked Ctrl, at the same time pressing the key marked X.

Convention	Meaning
$ `CREATE POINT [point_name]`	User entries are shown in two ways: uppercase letters indicate exact input, lowercase letters indicate user-supplied input.
[logical_name]	Brackets indicate that the enclosed item is optional. (Brackets are not, however, optional in the syntax of a directory name in a file specification.)
New term	Italic lettering designates a new term, or a term or phrase used in a manner specific to the subject being discussed. All new terms are defined in the BASEstar master glossary, which is included in the *BASEstar for VMS Introduction*.

Associated Documents

For further information on installing and configuring BASEstar software, refer to the following documents:

- *BASEstar for VMS Release Notes*
- *BASEstar for VMS Configuration and Tuning Guide*
- *BASEstar for VMS Command Line Interface User's Guide*
- *Introduction to VMS System Management*
- *VMS Backup Utility Manual*
- *VMS License Management Utility Manual*
- *Guide to Setting Up a VMS System*

New and Changed Features

The *BASEstar for VMS Introduction* describes several new BASEstar features including:

- *VAXcluster installation*

  The main BASEstar installation procedure enables installation of BASEstar application integration software on all targeted systems from one node in a VAXcluster system for those nodes sharing a system disk. Optionally installed software such as BASEstar device connection management, library management, and utilities must be installed on each target system.

- *BASEstar external data support installation*

  During the main BASEstar installation procedure, you have the option to install BASEstar external data support. This option enables users to export BASEstar data to a destination such as a database, data file, application, or other computer system. BASEstar users create *external maps* used to format data which is then transferred to the target system using a BASEstar *database server*. BASEstar software includes a database server to export data to an Rdb/VMS database. Instructions for installing the Rdb/VMS database server are in the *BASEstar for VMS Rdb/VMS Database Server Guide*.

- *File size selection during installation*

  During the main BASEstar installation procedure and the device connection management installation procedure the user is prompted to select disk space allocation for several BASEstar data files. These choices affect the total peak and net disk space utilization required for BASEstar installation.

- *BASEstar library installation*

  BASEstar library software is installed on one node in a BASEstar system to provide centralized management of many different types of manufacturing files. BASEstar library features are only accessible through the menu interface; therefore, you must install the BASEstar menu system during the main installation procedure. BASEstar library functions involving device communication (such as uploading and downloading library files) require installation of BASEstar device connection management software and appropriate device access software.

- *Single distribution tape*

  BASEstar software is distributed on a single magnetic tape or TK50 cartridge. BASEstar application integration capabilities including data management, menu system, and external data support are installed as part of the main installation procedure. Optional software including device connection management, library management, utilities, and Rdb/VMS database server software are installed from separate savesets included on the distribution media.

Chapter 1
Introduction

This chapter is an overview of BASEstar software installation procedures and installation options. It also describes installation preparation, preliminary steps, and provides an overview of VAXcluster installation.

1.1 Overview

The BASEstar installation procedures allow you to customize each BASEstar system by installing only those system components intended for the target system. You can install BASEstar software on a single node or on a *VAXcluster* system, which is a group of VAX systems sharing the same system disk.

The main BASEstar installation procedure is mandatory for all BASEstar systems and installs basic application integration features, such as: messaging, application synchronization and control, and distributed name processing. The main installation procedure has options, including the ability to install BASEstar data management capabilities, the BASEstar menu interface, and BASEstar external data support used to export real-time manufacturing data collected by BASEstar software to a database, an application, or another computer system.

In addition to the main installation options, there are optional installation savesets available with BASEstar software that provide device connection management, library management, and BASEstar utilities. Continue with the instructions in the following sections to understand installation options in the main installation procedures and to learn about optional BASEstar savesets that you can install.

Whether you install BASEstar software on a new system or upgrade an existing BASEstar system to the latest software revision, the VMSINSTAL utility performs the software installation procedures. VMSINSTAL prompts you to choose installation options, set directory specifications, and choose the VAXcluster configuration option. This chapter contains a checklist you can follow to ensure the correct BASEstar software is installed on each system.

1.1.1 Main Installation Options

Since the processing requirements for each node within your manufacturing system are distinct, the first step in installing BASEstar software is to determine which BASEstar components should be installed on each system. Basic application integration software is installed on all systems. However, during the main BASEstar installation procedure you are prompted to indicate which of the following additional BASEstar software components you wish to install:

- Data management
- External data support
- Menu interface

These components are optional in order to save disk space on systems not requiring these features. Consult the manufacturing system designer or user group to understand which, if any, of this optional software must be installed.

1.1.2 Optional Installation Procedures

In addition to the main installation, you can also install any of four optional BASEstar components. This software is installed from separate savesets to reduce the amount of system space required for the BASEstar installation if these capabilities are not needed. Optional installation procedures are included for the following BASEstar software components:

- Device connection management
- Library management
- Utilities
- Rdb/VMS database server

1.1.2.1 Device Connection Management

BASEstar device connection management software is installed after the main BASEstar installation procedure is complete. In order to communicate with plant equipment, BASEstar *device access software (DAS)* must also be installed for the industrial control devices used at each BASEstar site. Consult the manufacturing system designer or user group to understand which, if any, of this additional software must be installed.

NOTE: Before installing BASEstar device connection management software, delete all BASEstar for VMS, V2.0 device access software from the system.

The BASEstar device connection management installation procedure offers the option to install menu screens. These screens cannot be installed unless the BASEstar menu system was installed during the main installation procedure. The device connection management installation procedure also includes installation of BASEstar device access software for RS-232 devices and for

DECnet and TCP/IP networks. Refer to the *BASEstar Device Access Software Guide for RS-232 Devices* and *BASEstar Device Access Software Guide for DECnet and TCP/IP Networks* for information on how to configure and use these DAS modules.

1.1.2.2 Library Management

BASEstar library software manages many different types of manufacturing files, including: ladder logic programs, executive files, graphics, and text files. Install BASEstar library software on each network node that you want to use to communicate with BASEstar devices. BASEstar library management functions are only accessible through the BASEstar menu interface; therefore, you must install the BASEstar menu system during the main BASEstar installation procedure.

1.1.2.3 Utilities

The BASEstar utility saveset offers three BASEstar functions.

1. The BCC$BASEGEN.COM utility for tuning BASEstar systems.

   Run this procedure on a loaded BASEstar system to analyze its current VMS resource utilization and obtain suggested values for BASEstar parameters, SYSGEN parameters, and VMS process quota settings.

2. BASEstar text services for translating the BASEstar message files.

   These services are designed to support international use of BASEstar software by providing the text message files needed when conversion of the user interface to a non-English language is required.

3. Software for reconciling VMS version mismatches.

   The utility saveset contains software for reconciling VMS versions if a version mismatch error occurs during BASEstar installation. If a mismatch occurs, it is reconciled automatically by installing BASEstar utility software.

1.1.2.4 Rdb/VMS Database Server

BASEstar software includes an Rdb/VMS database server to export BASEstar data to an Rdb/VMS database. Instructions for installing and using the BASEstar Rdb/VMS database server are in the *BASEstar for VMS Rdb/VMS Database Server Guide*.

1.1.3 Installation Checklist

This section provides a checklist for interviewing BASEstar system users to understand which BASEstar software components need to be installed on each BASEstar system. Answer all of these questions for every node in your network of BASEstar systems.

Option	√	Do users need to...	Then install...
1.	_____	Share data on this system?	*Data Management* during the main installation procedure.
2.	_____	Export data from this system?	*External Data Support* during the main installation procedure.
3.	_____	Access the BASEstar menu interface?	*Menu System* during the main installation procedure.
4.	_____	Control or monitor plant equipment or collect plant data using this system?	*Device Connection Management* from the DCM030 saveset.
5.	_____	Store and manage a library of files on this system?	*Library Management* from the BCCLIB030 saveset on one node in a VAXcluster system.
6.	_____	Access to BASEstar utilities?	*Utilities* from the BCCUTL030 saveset.
7.	_____	Export data to an Rdb/VMS database?	*Rdb/VMS Database Server* from the BRI030 saveset.

Once you have planned the software to install on each BASEstar system, continue with the instructions in the following section to check hardware, software, and disk space prerequisites before installing BASEstar software.

1.2 Installation Preparation

This section provides information needed to prepare for a BASEstar installation.

1.2.1 Distribution Kit

BASEstar software is available in two forms: a 1600-bpi 9-track tape or a TK50 tape cartridge for use with development or runtime licenses. Each medium contains the following installable savesets:

- BCC030—BASEstar application integration software
- DCM030—BASEstar device connection management software
- BCCLIB030—BASEstar library management software
- BCCUTL030—BASEstar utilities software
- BRI030—BASEstar Rdb/VMS database server software

BASEstar technical documentation is available as three separate kits containing the following manuals:

System Management Kit:

- *BASEstar for VMS Release Notes*
- *BASEstar for VMS Installation Guide*
- *BASEstar for VMS Configuration and Tuning Guide*

General User Kit:

- *BASEstar for VMS Introduction*
- *BASEstar for VMS Menu Interface User's Guide*
- *BASEstar for VMS Command Line Interface User's Guide*

Programming Kit:

- *BASEstar for VMS Introduction to Callable Services*
- *BASEstar for VMS Guide to Writing a Database Server*
- *BASEstar for VMS Rdb/VMS Database Server Guide*
- *BASEstar for VMS Guide to Writing Device Access Software*
- *BASEstar for VMS Device Access Software Guide for RS-232 Devices*
- *BASEstar for VMS Device Access Software Guide for DECnet and TCP/IP Networks*
- *BASEstar for VMS Application Programming Interface Reference Guide*

NOTE: Check the bill of materials enclosed with the kit to ensure the kit is complete.

1.2.2 Hardware Requirements

The minimum hardware configuration required for BASEstar software to run efficiently follows:

- VAX Processor— A single VAX or MicroVAX processor supports BASEstar software. The single VAX processor can be networked with other VAX or MicroVAX systems or a VAXcluster system using DECnet software. Any or all systems in the distributed network can run BASEstar software.

  NOTE: Installation of BASEstar library software increases the minimum processor requirements for BASEstar system configuration to MicroVAX II system with 13 Mb of memory.

- ANSI-compatible video display terminal such as the VT100, VT200, or VT300 series.
- Nine-track magnetic tape drive or TK50 as appropriate for distribution media.
- Minimum of 8 Mb of memory.
- RD54 or equivalent disk drive (Additional RD53 required for storing library files if the BASEstar library is used).

1.2.3 Software Requirements

The following software must be installed on your system before installing BASEstar software.

- VMS V5.3 or higher.
- DECnet software, as provided with the VMS operating system.
- VAX FMS V2.3 or higher is required for the BASEstar menu system only. If you do not install the menu system, you do not need VAX FMS.

1.2.4 Disk Space Requirements

The actual amount of disk space required depends on your BASEstar system configuration. The disk space requirements for the BASEstar software components follow:

BASEstar Component	Peak Utilization in Blocks (During Installation)	Net Utilization in Blocks
BASEstar software with all main options	31,500	24,300
Device connection management	13,000	12,700
Library	16,190	15,920
Utility	2,800	200
Rdb/VMS Database Server	1,150	800

1.3 Preliminary Installation Steps

Before installing BASEstar software, review the following checklist. If you need more information on how to perform some of the functions on the checklist, refer to the *Introduction to VMS System Management*.

Step	√	Before installing BASEstar software...
1.	_____	Ensure VMS V5.3 or higher is installed on the system.
2.	_____	Ensure DECnet software is configured on your system.
3.	_____	Verify FMS V2.3 or higher is installed on your system if you intend to install the menu interface.
4.	_____	Install the BASEstar product license.
5.	_____	Decide which BASEstar software components to install on each system.

Step	√	Before installing BASEstar software...
6.	_____	Develop your global name server configuration (if you have two or more BASEstar systems in a network that share information).
7.	_____	Verify SYSGEN parameters before installing BASEstar library software.
8.	_____	Stop interactive processes and disable user logins.
9.	_____	Stop batch queues.
10.	_____	Stop the BASEstar system (if performing an upgrade).
11.	_____	Close the library database (upgrades only).
12.	_____	Back up the system disk.
13.	_____	Verify logical names for an upgrade.

Perform these tasks before installing BASEstar software:

1. **Ensure VMS V5.3 or higher is installed on the system.**

   Verify V5.3 or higher of VMS is installed on each system planned for installation of BASEstar software.

2. **Ensure DECnet software is configured on your system.**

   DECnet software must be configured in order to install BASEstar software. Refer to the *BASEstar for VMS Configuration and Tuning Guide* for instructions on the minimum DECnet configuration required.

3. **Verify FMS V2.3 or higher is installed on your system if you intend to install the menu interface.**

   If you plan to use the BASEstar menu interface, ensure V2.3 or higher of FMS is installed on each system planned for installation of BASEstar menu software.

4. **Install the BASEstar product license.**

   Before you can install BASEstar software, you must register the information from your product authorization key (PAK) in the VMS license database. You can do so using the VMSLICENSE.COM procedure found in the SYS$UPDATE directory. This command procedure prompts you to enter your product license information. When you register a license with the VMSLICENSE.COM procedure, you can confirm an option to activate the license database information automatically. If you register a license with the LICENSE REGISTER command, you must also activate it with a LICENSE LOAD command. For complete instructions on how to register and load license information, refer to the *VMS License Management Utility Manual*.

5. **Decide which BASEstar software components to install on each system.**

   Review the installation checklist with software developers and process engineers to create a list indicating which BASEstar software components must be installed on each VAX system in your hardware configuration.

6. **Define your global name server configuration.**

In order to make BASEstar objects accessible within a distributed system, at least one BASEstar system must be defined as a global name server. Other nodes are designated as name dispatchers. Before installing BASEstar software, determine your global name server configuration so you can enter definitions properly during installation. For information on defining global name servers, refer to the *BASEstar for VMS Configuration and Tuning Guide*.

7. **Verify minimum SYSGEN parameters for BASEstar library installation.**

   Before installing BASEstar library software, ensure that your system meets the minimum required SYSGEN parameter settings referenced in Table 1–1.

Table 1–1: Library Preinstallation Minimum SYSGEN Parameters

MODPARAMS.DAT Entries	Minimum Value
CTLPAGES	60
GBLPAGFIL	4096

For example, follow these steps to steps to adjust the SYSGEN parameter GBLPAGFIL.

a. Begin by running the VMS System Generation utility to view the current setting for the GBLPAGFIL parameter on your system as follows:

```
$ SET DEF SYS$SYSTEM
$ RUN SYSTEM
SYSGEN>USE ACTIVE
SYSGEN>SHOW GBLPAGFIL
GBLPAGES 1024
SYSGEN>EXIT
$
```

b. Edit the MODPARAMS.DAT file to increase the size of the global page file. If the GBLPAGFIL parameter is already set, change the current value to the desired value. If the parameter is not specified, you can add a line to the MODPARAMS.DAT file to specify your desired minimum amount as follows:

```
MIN_GBLPAGFIL=4096
```

In this way, a larger global page file can be allocated if needed, however, your system will maintain a minimum global page file size equal to your desired value.

c. Run the AUTOGEN command procedure to update the new value. If you want a feedback report, enter the following command:

```
$ @SYS$UPDATE:AUTOGEN SAVPARAMS SETPARAMS FEEDBACK
```

If you do not require feedback, enter the following command:

```
$ @SYS$UPDATE:AUTOGEN GETDATA SETPARAMS NOFEEDBACK
```

d. Once you have run the AUTOGEN procedure, you must shut down the system and reboot in order for the new parameter value to take effect.

8. **Disable log ins.**

   Ensure that all BASEstar users have logged off and no other users can log on to the system during the installation. To disable users from logging in, enter:

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

   Re-enable logins after the installation is complete. Refer to the *Introduction to VMS System Management* for more information on logins.

9. **Stop batch processes.**

   Do not run any processes during the BASEstar installation. Users must log off of the system during the installation. To stop the batch queues, enter:

   ```
   $ STOP/QUEUE/NEXT queue_name
   ```

10. **Stop the BASEstar system.**

    If performing an upgrade of existing BASEstar software, ensure the current version of the system is not running. Stopping the BASEstar system also stops device connection management and all user-written BASEstar applications. To stop the BASEstar system, enter:

    ```
    $ BSTAR STOP SYSTEM
    ```

11. **Close the library database (upgrades only).**

    Before backing up the system disk or reinstalling BASEstar library software, you must close the library database using the following command:

    ```
    $ @SYS$MANAGER:BCCLIB$CLOSE
    ```

    This command procedure ensures that all information in the library global sections has been copied to the disk-based library database files. It then closes the database files and removes the library global sections from memory.

12. **Back up the system disk.**

    Back up the system disk before installing the BASEstar software. This backup is a protection in the event of disk corruption or accidental changes or deletions during installation. The procedure for backing up the system is described in the *VMS Backup Utility Manual*.

13. **Verify logical names (upgrades only).**

    Logical names reflect where previous versions of BASEstar software were installed. Define these logical names so the installation procedure can locate the files that need to be upgraded.

    If upgrading your BASEstar system, ensure the logical names BCC$SYSTEM and BCC$SYSDATA are defined by entering the following commands:

    ```
    $  SHOW LOGICAL BCC$SYSTEM
    $  SHOW LOGICAL BCC$SYSDATA
    ```

If the logical names are not already defined, define them by executing the SYS$STARTUP:BCC$STARTUP.COM command procedure.

If upgrading BASEstar device connection management, ensure the logical name ILAN$SYSTEM is defined in the system startup file by entering the following command:

```
$  SHOW LOGICAL ILAN$SYSTEM
```

If the logical name is not already defined, define it by executing the SYS$STARTUP:ILAN$STARTUP.COM command procedure.

1.4 VAXcluster Installation

The BASEstar installation procedure for VAXcluster systems allows installation of BASEstar software on all systems from one node in a VAXcluster for those nodes sharing a system disk. The installation procedure prompts you to indicate if this is a single node or a VAXcluster installation. If you choose cluster installation, the installation procedure prompts you to provide information about each node in the cluster and installs appropriate BASEstar software as specified for the configuration. Step-by-step instructions for VAXcluster installation are provided in Chapter 2.

Chapter 2
Installation

This chapter describes the step-by-step installation of BASEstar software. It also contains a list of error messages that may appear during installation and provides a description of recovery procedures for each error.

BASEstar software components are installed using a combination of four installation procedures:

1. Single node installation *or* VAXcluster installation procedure
2. Device connection management installation procedure
3. Library installation procedure
4. Utility installation procedure

Begin by reading the instructions for installing BASEstar software on either a single node or on a VAXcluster system, whichever applies to your installation. Proceed by following the instructions for the installation of BASEstar device connection management, library management, and utility software, all of which are optional installations. Refer to Appendix A for sample installation procedures. All installation procedures are designed for new and upgrade installations.

NOTE: It is strongly recommended that system managers read the *BASEstar for VMS Release Notes* before performing an upgrade installation.)

Be prepared to provide the following information during the installation.

Step	√	Information to prepare before installation...
1.	_____	BCC$SPECIFIC directory location
2.	_____	Global name server or name dispatcher selection
3.	_____	Local name file, point file, and group file estimated sizes for your BASEstar system
4.	_____	BCC$COMMON directory location (VAXcluster installation only)
5.	_____	Names of the global name server nodes and size of global name file

During the installation procedure, you are asked to give responses to questions. Type **Y** for yes or **N** for no to respond to a question and press Return or just press Return to select the default response. You can type a question mark and press Return after any prompt to receive on-line help.

NOTE: DECnet software must be running during the installation. Do not shut down the network for installation. Even if you do not have a DECnet license and your system is not networked, DECnet must be configured and running to install BASEstar software.

2.1 Installing BASEstar Software

This section describes how to install BASEstar software. If you are installing BASEstar software on a single node, follow the installation procedure in Section 2.1.1. To install BASEstar software on a VAXcluster system, follow the installation procedure in Section 2.1.2.

2.1.1 BASEstar Single Node Installation

BASEstar software installation consists of the following steps:

1. Log in to the system manager's account.

2. Set the default directory to SYS$UPDATE:

   ```
   $ SET DEFAULT SYS$UPDATE
   ```

3. Invoke VMSINSTAL.

   ```
   $ @VMSINSTAL BCC030 ddcu:
   ```

   where **BCC030** is the BASEstar product name and version and **ddcu:** is the name of the disk or tape drive containing the software kit.

4. When you invoke VMSINSTAL, the system displays the following:

   ```
   VAX/VMS Software Product Installation Procedure V5.3-1

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

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

5. VMSINSTAL asks if you are satisfied with the backup of your system disk:

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

   Enter Y or N and press Return.

   The procedure displays the following:

   ```
   The following products will be processed:
     BCC V3.0

         Beginning installation of BCC V3.0 at hh:mm

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

6. The procedure prompts to ensure you have the corrct BASEstar license installed on the system. Press Return if the license is already installed. If not, halt the installation and install the BASEstar license.

```
BASEstar Kernel Version 3.0 Installation Procedure
--------------------------------------------------

BASEstar requires one of the following licenses to be registered
and loaded on all nodes on which BASEstar will run:

          Product             Producer    Release Date
          ---------------     --------    ------------
     [1]  BASESTAR              DEC       6-Mar-1991
     [2]  BASESTAR-RT           DEC       6-Mar-1991
     [3]  BASESTAR-LTD          DEC       6-Mar-1991
     [4]  BASESTAR-RT-LTD       DEC       6-Mar-1991

* Which of the above licenses will be used? [1]:

        Product:      BASESTAR
        Producer:     DEC
        Release Date: 6-MAR-1991

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

7. The procedure prompts you to indicate if this is a single node or VAXcluster installation. This section provides the description of the single node installation only.

```
This installation allows for either a cluster installation or
a single node installation. The cluster installation option can
only be chosen for nodes that share a cluster common system
disk.

* Do you want to install BASEstar on just one node [YES]?
```

Press Return for a single node installation.

```
%BCC-I-SYSCONFIG, Processing node nodename . . .
```

8. The procedure installs BASEstar software and asks if you want to install additional capabilities. You can optionally install data management software, external data support, and the menu interface now, or in an update installation. For example, if this is a new installation, the following text displays:

```
This is a new BASEstar installation. The BASEstar CORE must be
installed, but the Data Management and Menu System subsystems
are optional.

* Do you want to install BASEstar Data Management [YES]?
```

Enter Y or N and press Return. VMSINSTAL asks if you want to install External Data Support:

```
* Do you want to install BASEstar External Data Support [YES]?
```

Enter Y or N and press Return. VMSINSTAL asks if you want to install the Menu System:

```
* Do you want to install BASEstar Menu System [YES]?
```

Enter Y or N and press Return.

9. VMSINSTAL asks for a directory location for the BASEstar command and data files:

```
   A location must be chosen for the BCC$SPECIFIC directory.
   By default, BASEstar data and command files are installed in
   SYS$SPECIFIC:[BCC$SPECIFIC]. This specification may be
   overridden if desired.

* Enter the BASEstar specific directory specification
[SYS$SPECIFIC:[BCC$SPECIFIC]]:
```

If you do not specify a directory name, the BASEstar files are installed into the [BCC$SPECIFIC] directory under the system specific root directory. If you enter a different directory, be sure it resides on a permanently mounted disk. (Since these files are data and command files, the system disk may not be an appropriate location.) If installing on a VAXcluster node and you do not use the system disk, specify a unique directory name within the VAXcluster system. Verify the directory name specified:

```
* Is directory [directory_name_you_typed] correct [YES]?
```

10. Specify whether the system is to be configured as a global name server or message dispatcher. To perform global name operations, at least one BASEstar system in the network must be a global name server. VMSINSTAL asks:

```
* Do you want this system to be configured as a Global Name
 Server [YES]?
```

If you enter Y, the system is a global name server. If you enter N, the system is a name dispatcher.

11. Select a target size for the following data files:

```
BCC$POINT_FILE
==============

INITIAL ALLOCATION              EXTEND ALLOCATION          FILE SIZE

[1]    500 POINTS                    500 POINTS                840
[2]  2,000 POINTS                  1,000 POINTS              2,223
[3] 10,000 POINTS                  5,000 POINTS             10,675
[4] 30,000 POINTS                 10,000 POINTS             27,219

* Enter BCC$POINT_FILE size [1]:
```

```
BCC$GROUP_FILE
==============

INITIAL ALLOCATION              EXTEND ALLOCATION          FILE SIZE

[1]   500 GROUPS                    500 GROUPS                819
[2] 2,000 GROUPS                  1,000 GROUPS              2,223

* Enter BCC$GROUP_FILE size [1]:

BCC$LOCAL_NAME_FILE
===================

INITIAL ALLOCATION              EXTEND ALLOCATION          FILE SIZE

[1]    500 NAMES                    500 NAMES                342
[2]  2,000 NAMES                  1,000 NAMES                867
[3] 10,000 NAMES                  5,000 NAMES              4,023
[4] 30,000 NAMES                 10,000 NAMES             10,179

* Enter BCC$LOCAL_NAME_FILE size [1]:
```

12. Choose a location for the BCC$COMMON directory. By default, the BASEstar executable files are installed in SYS$COMMON: [BCC$COMMON]. This specification may be overridden if desired.

```
   A location must be chosen for the BCC$COMMON directory.
   By default, BASEstar executable files are installed in
   SYS$COMMON:[BCC$COMMON]. This specification may be
   overridden if desired.

* Enter the BASEstar common directory specification
    [SYS$COMMON:[BCC$COMMON]]:
* Is directory SYS$COMMON:[BCC$COMMON] correct [YES]?

  The node names of all BASEstar Global Name Server systems with
  which this node will work must now be entered. These names are
  required for both global name server systems and for name
  dispatcher systems.
```

13. Enter the node names of all the BASEstar global name server systems with which this node will work. These names are required for both global name server systems and name dispatcher systems.

```
* Enter a Global Name Server node name, <CR> to end list: nodename
* Enter a Global Name Server node name, <CR> to end list: <CR>
```

The value of the BASEstar parameter BCC$QUORUM is established from the list of global name servers entered; the following is displayed:

```
%BCC-I-QUORUMSET, Global server quorum will be set to n.

If the above quorum value is not consistent with other Global
Name Server systems in the same BASEstar cluster, the value
of BCC$QUORUM should be changed after the installation is
finished and before BASEstar is started on this node for the
first time.
```

14. Choose a target size for the global name file on the global name server systems:

```
BCC$GLOBAL_NAME_FILE
====================

INITIAL ALLOCATION              EXTEND ALLOCATION          FILE SIZE

[1]    500 NAMES                     500 NAMES                 342
[2]  2,000 NAMES                   1,000 NAMES                 867
[3] 10,000 NAMES                   5,000 NAMES               4,023
[4] 30,000 NAMES                  10,000 NAMES              10,179

* Enter BCC$GLOBAL_NAME_FILE size [1]:
```

15. After all prompts have displayed, the following appears:

```
    The installation procedure has no further questions to ask and
    can continue from this point without user assistance.  The
    installation time will vary depending on the number of nodes
    selected for installation and the type of processor on which
    the installation is being done.

    This installation creates an identifier name BCC$USER, which
    is used to control access to the BCC$SYSDATA directory and the
    data files contained in that directory. After the installation
    is finished, the VMS Authorize Utility must be used to grant
    this identifier to all accounts that will use BASEstar.
```

The installation procedure restores the savesets, creates system directories, and displays the following:

```
$VMSINSTAL-I-RESTORE, Restoring product save set B  . . .
$VMSINSTAL-I-RESTORE, Restoring product save set C  . . .
$VMSINSTAL-I-RESTORE, Restoring product save set D  . . .
$VMSINSTAL-I-RESTORE, Restoring product save set E  . . .
%BCC-I-INSTALLNODE, Installing BASEstar on node nodename . . .

%VMSINSTAL-I-SYSDIR, This product creates system disk directory
    VMI$ROOT:[BCC$COMMON].
%VMSINSTAL-I-SYSDIR, This product creates system disk directory
    SYS$SYSDEVICE:[SYS0.BCC$SPECIFIC].

%BCC-I-STARTCORE, BASEstar CORE installation beginning on nodename.

   This installation places a file name BCC$STARTUP.COM in the
   directory SYS$SPECIFIC:[SYS$STARTUP] in each system root on
   which this installation is being performed. The SYSTARTUP_V5.COM
   file should be edited to invoke this startup file when the
   system boots.

%BCC-I-STARTDMGT, BASEstar Data Management installation
     beginning on nodename

%BCC-I-STARTDMGT, BASEstar External Data Support installation
     beginning on nodename

%BCC-I-STARTMENU, BASEstar Menu System installation
     beginning on nodename.

   The following UAF parameters should be checked on all accounts
   that will use BASEstar:
```

```
      ASTLM           BIOLM          BYTLM
      DIOLM           ENQLM          FILLM
      PGFLQUO         PRCLM          TQELM
      WSDEF           WSEXTENT       WSQUO

   Refer to the installation guide for recommended minimum values
   for these parameters.

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

The BASEstar system disk directories are established, the startup command procedure is created, and the installation verification procedure (IVP) is run.

```
BASEstar Kernel V3.0 Installation Verification Procedure

%BCCIVP-I-CORESTART, CORE verification starting on node nodename.

%BCCIVP-I-PASS, CORE data files check passed
%BCCIVP-I-PASS, CORE command files check passed
%BCCIVP-I-PASS, CORE executable files check passed
%BCCIVP-I-PASS, CORE support files check passed
%BCCIVP-I-PASS, CORE system files check passed
%BCCIVP-I-PASS, CORE parameter check passed

%BCCIVP-I-DMGTSTART, DMGT verification starting on node nodename

%BCCIVP-I-PASS, DMGT file check passed

%BCCIVP-I-EXTMAPSTART, External Data Server verification starting
     on node nodename

%BCCIVP-I-PASS, External Data Server file check passed

%BCCIVP-I-MENUSTART, MENU verification starting on node nodename

%BCCIVP-I-PASS, Menu System file check passed
%BCCIVP-I-PASS, Menu System command check passed
%BCCIVP-I-PASS, Menu System menu check passed

BASEstar V3.0 IVP completed successfully
```

16. When the IVP completes, the following message is displayed:

```
     Installation of BCC V3.0 completed at hh:mm
     VMSINSTAL procedure done at hh:mm
```

The BASEstar single node installation is complete. Continue with instructions in this section to install additional BASEstar software.

2.1.2 BASEstar VAXcluster Installation

This section describes how to perform an installation for multiple nodes. The BASEstar VAXcluster installation consists of the following steps:

1. Log in to the system manager's account.

2. Set the default directory to SYS$UPDATE:

```
$ SET DEFAULT SYS$UPDATE Return
```

3. Invoke VMSINSTAL:

```
$ @VMSINSTAL BCC030 ddcu:
```

where **BCC030** is the BASEstar product name and **ddcu:** indicates the disk or tape drive containing the software kit.

4. When you invoke VMSINSTAL, the system displays the following:

```
VAX/VMS Software Product Installation Procedure V5.3-1

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

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

5. VMSINSTAL asks if you are satisfied with the backup of your system disk:

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

Enter Y or N and press Return.

The procedure displays the following:

```
The following products will be processed:
  BCC V3.0

       Beginning installation of BCC V3.0 at hh:mm

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

6. The procedure first prompts to ensure you have the correct BASEstar license installed on the system. Press Return if the license is already installed. If not, halt the installation and install the BASEstar license.

```
     BASEstar Kernel Version 3.0 Installation Procedure
     ------------------------------------------------

    BASEstar requires one of the following licenses to be registered
    and loaded on all nodes on which BASEstar will run:

             Product            Producer    Release Date
             ---------------    --------    ------------
        [1]  BASESTAR             DEC       6-Mar-1991
        [2]  BASESTAR-RT          DEC       6-Mar-1991
        [3]  BASESTAR-LTD         DEC       6-Mar-1991
        [4]  BASESTAR-RT-LTD      DEC       6-Mar-1991

* Which of the above licenses will be used? [1]:

        Product:      BASESTAR
        Producer:     DEC
        Release Date: 6-MAR-1991

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

7. The procedure asks if you want to install on a single node.

```
This installation allows for either a cluster installation or a
single node installation. The cluster installation option can
only be chosen for nodes that share a cluster common system
disk.

* Do you want to install BASEstar on just one node [YES]? N
```

   Enter N and press Return to perform a VAXcluster installation.

8. You are prompted to enter each VAXcluster node name. Press Return after each node name.

```
* Enter a node name, <CR> to end list: nodename1
%BCC-I-SYSINFO, Verifying node information...
* Enter a node name, <CR> to end list: nodename2
%BCC-I-SYSINFO, Verifying node information...
* Enter a node name, <CR> to end list:

%BCC-I-SYSCONFIG, Processing node nodename1...
```

   NOTE: The following installation questions are asked for each node specified as part of the VAXcluster. After all questions are answered, the installation verification procedure displays messages indicating software installed and checks passed for each node as well.

9. The procedure installs BASEstar software and asks if you want to install additional capabilities. You can optionally install data management software, external data support, and the menu interface now or in an update installation. For example, if this is a new installation, the following text displays:

```
This is a new BASEstar installation. The BASEstar CORE must be
installed, but the Data Management and Menu System subsystems
are optional.

* Do you want to install BASEstar Data Management [YES]?
```

   Enter Y or N and press Return. VMSINSTAL asks if you want to install External Data Support:

```
* Do you want to install BASEstar External Data Support [YES]?
```

   Enter Y or N and press Return. VMSINSTAL asks if you want to install the Menu System:

```
* Do you want to install BASEstar Menu System [YES]?
```

   Enter Y or N and press Return.

10. VMSINSTAL asks for a directory location for the BASEstar command and data files:

```
   A location must be chosen for the BCC$SPECIFIC directory.
   By default, BASEstar data and command files are installed in
   SYS$SPECIFIC:[BCC$SPECIFIC]. This specification may be
   overridden if desired.

* Enter the BASEstar specific directory specification
[SYS$SPECIFIC:[BCC$SPECIFIC]]:
```

If you do not specify a directory name, the BASEstar files are installed into the [BCC$SPECIFIC] directory under the system specific root directory. If you enter a different directory, be sure it resides on a permanently mounted disk. (Since these files are data and command files, the system disk may not be an appropriate location.) If installing on a VAXcluster node and you do not use the system disk, specify a unique directory name within the VAXcluster system. Verify the directory name specified:

```
* Is directory [directory_name_you_typed] correct [YES]?
```

11. Specify whether the system is to be configured as a global name server or a message dispatcher. To perform global name operations, at least one BASEstar system in the network must be a global name server. VMSINSTAL asks:

```
* Do you want this system to be configured as a Global Name
 Server [YES]?
```

If you enter Y, the system is a global name server. If you enter N, the system is a name dispatcher.

12. Select a target size for the following data files:

```
BCC$POINT_FILE
==============

INITIAL ALLOCATION              EXTEND ALLOCATION          FILE SIZE

[1]    500 POINTS                    500 POINTS                840
[2]  2,000 POINTS                  1,000 POINTS              2,223
[3] 10,000 POINTS                  5,000 POINTS             10,675
[4] 30,000 POINTS                 10,000 POINTS             27,219

* Enter BCC$POINT_FILE size [1]:

BCC$GROUP_FILE
==============

INITIAL ALLOCATION              EXTEND ALLOCATION          FILE SIZE

[1]   500 GROUPS                    500 GROUPS                819
[2] 2,000 GROUPS                  1,000 GROUPS              2,223

* Enter BCC$GROUP_FILE size [1]:

BCC$LOCAL_NAME_FILE
===================

INITIAL ALLOCATION              EXTEND ALLOCATION          FILE SIZE
```

```
[1]    500 NAMES                    500 NAMES                    342
[2]  2,000 NAMES                  1,000 NAMES                    867
[3] 10,000 NAMES                  5,000 NAMES                  4,023
[4] 30,000 NAMES                 10,000 NAMES                 10,179

* Enter BCC$LOCAL_NAME_FILE size [1]:
```

13. Choose a location for the BCC$COMMON directory. By default, the BASEstar executable files are installed in SYS$COMMON: [BCC$COMMON]. This specification may be overridden if desired.

```
    A location must be chosen for the BCC$COMMON directory.
    By default, BASEstar executable files are installed in
    SYS$COMMON:[BCC$COMMON]. This specification may be
    overridden if desired.

* Enter the BASEstar common directory specification [SYS$COMMON:
 [BCC$COMMON]]:
* Is directory SYS$COMMON:[BCC$COMMON] correct [YES]?

  The node names of all BASEstar Global Name Server systems with
  which this node will work must now be entered. These names are
  required for both global name server systems and for name
  dispatcher systems.
```

14. Enter the node names of all the BASEstar global name server systems with which this node will work. These names are required for both global name server systems and name dispatcher systems.

```
* Enter a Global Name Server node name, <CR> to end list:
```

The value of the BASEstar parameter BCC$QUORUM is established from the list of global name servers entered; the following is displayed:

```
    %BCC-I-QUORUMSET, Global server quorum will be set to n.

    If the above quorum value is not consistent with other Global
    Name Server systems in the same BASEstar cluster, the value
    of BCC$QUORUM should be changed after the installation is
    finished and before BASEstar is started on this node for the
    first time.
```

15. Choose a target size for the global name file on the global name server systems:

```
BCC$GLOBAL_NAME_FILE
====================

INITIAL ALLOCATION              EXTEND ALLOCATION          FILE SIZE

[1]    500 NAMES                    500 NAMES                    342
[2]  2,000 NAMES                  1,000 NAMES                    867
[3] 10,000 NAMES                  5,000 NAMES                  4,023
[4] 30,000 NAMES                 10,000 NAMES                 10,179

* Enter BCC$GLOBAL_NAME_FILE size [1]:
```

16. After all prompts have displayed, the following displays:

```
The installation procedure has no further questions to ask and
can continue from this point without user assistance.  The
installation time will vary depending on the number of nodes
selected for installation and the type of processor on which
the installation is being done.

This installation creates an identifier name BCC$USER, which
is used to control access to the BCC$SYSDATA directory and the
data files contained in that directory. After the installation
is finished, the VMS Authorize Utility must be used to grant
this identifier to all accounts that will use BASEstar.
```

The installation procedure restores the savesets, creates system directories, and displays the following information for each node on which you are installing BASEstar software:

```
$VMSINSTAL-I-RESTORE, Restoring product save set B  . . .
$VMSINSTAL-I-RESTORE, Restoring product save set C  . . .
$VMSINSTAL-I-RESTORE, Restoring product save set D  . . .
$VMSINSTAL-I-RESTORE, Restoring product save set E  . . .
%BCC-I-INSTALLNODE, Installing BASEstar on node nodename . . .

%VMSINSTAL-I-SYSDIR, This product creates system disk directory
    VMI$ROOT:[BCC$COMMON].
%VMSINSTAL-I-SYSDIR, This product creates system disk directory
    SYS$SYSDEVICE:[SYS0.BCC$SPECIFIC].

%BCC-I-STARTCORE, BASEstar CORE installation beginning on nodename.

   This installation places a file name BCC$STARTUP.COM in the
   directory SYS$SPECIFIC:[SYS$STARTUP] in each system root on
   which this installation is being performed. The SYSTARTUP_V5.COM
   file should be edited to invoke this startup file when the
   system boots.

%BCC-I-STARTDMGT, BASEstar Data Management installation
     beginning on nodename

%BCC-I-STARTDMGT, BASEstar External Data Support installation
     beginning on nodename

%BCC-I-STARTMENU, BASEstar Menu System installation
     beginning on nodename.

   The following UAF parameters should be checked on all accounts
   that will use BASEstar:

       ASTLM           BIOLM          BYTLM
       DIOLM           ENQLM          FILLM
       PGFLQUO         PRCLM          TQELM
       WSDEF           WSEXTENT       WSQUO

   Refer to the installation guide for recommended minimum values
   for these parameters.

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

The BASEstar system disk directories are established, the startup command procedure is created, and the installation verification procedure (IVP) is run. When the IVP completes, the following displays:

```
Installation of BCC V3.0 completed at hh:mm
VMSINSTAL procedure done at hh:mm
```

The BASEstar VAXcluster installation is complete. Continue with instructions in this section to install additional BASEstar software.

2.2 BASEstar Device Connection Management Installation Procedure

This section describes how to install BASEstar device connection management software. If your main BASEstar installation did not include installing the menu interface, the device connection management installation cannot install or update the device connection management menus.

NOTE: Delete all BASEstar for VMS, V2.0 device access software from your system before installing BASEstar device connection management software.

The BASEstar device connection management installation consists of the following steps:

1. Log in to the system manager's account.

2. Set the default directory to SYS$UPDATE:

   ```
   $ SET DEFAULT SYS$UPDATE
   ```

3. Invoke VMSINSTAL:

   ```
   $ @VMSINSTAL DCM030 ddcu:
   ```

   where **DCM030** is the device connection management product name and version and **ddcu:** is the disk or tape drive containing the software kit. When you invoke VMSINSTAL, the system displays the following:

   ```
   VAX/VMS Software Product Installation Procedure V5.3

   It is dd-mm-19yy at hh:mm.

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

4. VMSINSTAL verifies you are logged into the system manager's account, you have adequate account quotas for installing layered products, DECnet software is not running on the system, and all other users are logged off the system. If these conditions are not met, VMSINSTAL tells you which conditions were not met and prompts as follows:

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

DECnet must be running to install the device connection management software. To continue, enter Y and press Return.

5. The installation procedure prompts you to verify that you are satisfied with your system disk backup:

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

If you have not backed up your system, enter N and refer to Section 1.3. If satisfied with your back up, press Return to continue.

The installation continues with the following:

```
        The following products will be processed:

        DCM V3.0

        Beginning installation of DCM V3.0 at hh:mm
%VMSINSTAL-I-RESTORE, restoring product saveset A...
```

6. You are prompted to indicate if you want to run the installation verification procedure after installation.

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

If you want to run the installation verification procedure (IVP), enter Y. If you have not yet installed BASEstar software on all the systems, enter N and press Return.

7. The installation procedure prompts:

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

If the installation is an upgrade, delete the previous versions of the files created by the installation by entering Y. Site-specific files or VMS installed images are not purged. The files not purged include:

- SYS$STARTUP:ILAN$STARTUP.COM
- BCC$SYSDATA:ILAN$SYSTEM.STARTUP.COM
- SYS$COMMON:[SYSMSG]:ILAN$MSG.EXE
- SYS$COMMON:[SYSLIB]:ILAN$SHR.EXE
- SYS$COMMON:[SYSLIB]:ILAN$SERVER_SHR.EXE
- SYS$COMMON:[SYSLIB]:ILAN$CLI_SHR.EXE

8. VMSINSTAL then installs sample device access software and displays the following:

```
As part of this installation, Device Access Software for simple
terminal devices, bar code readers (RS-232 devices) and Network
devices are provided along with BASEstar Device Connect Management.

The configuration template file, ILAN_CFG_TT_SUPPORT.COM,
is used to define the paths, types, and devices for terminal
devices and the pseudo device. Edit this file, as necessary,
to reflect your specific site configuration.

During installation it will be placed in the directory BCC$SYSDATA:.

The configuration template file for Network support,
DCM_NET_CONFIG.TEMPLATE, is used to define Network DAS compatible
paths, types, and devices.  Edit this file, as necessary,
to reflect your specific site configuration.

During installation it will be placed in the directory BCC$SYSDATA:.
```

9. Select a file size for the physical point data file. Enter the correct choice from the menu and press Return.

```
During a new installatin, you must choose a target size for
the PHYSICAL POINT data file:

ILAN$PHYPOINT_FILE
==================

Initial Allocation         Extend Allocation       File Size

[1]    500 Phypoints           500 Phypoints       1,251 Blocks
[2]  2,000 Phypoints         1,000 Phypoints       3,333 Blocks
[3] 10,000 Phypoints         5,000 Phypoints      15,744 Blocks
[4] 20,000 Phypoints        10,000 Phypoints      32,604 Blocks

* Enter ILAN$PHYPOINT_FILE size [1]:
```

10. Once all prompts have displayed, the following displays:

```
The installation  procedure  has no  further questions to ask and
can continue from this point  without  user  assistance.  The rest
of the installation will take approximately 25 minutes depending on
system load and configuration.


Now checking the BASEstar Parameter file for DCM parameters.

The BASEstar DCM Parameters have been successfully installed

 The installation procedure is continuing...

The BASEstar DCM Menus have been successfully installed

        The installation procedure is continuing...

%VMSINSTAL-I-SYSDIR, This product creates system disk directory
VMI$ROOT:[BCC$COMMON.EXAMPLES.ILAN$EXAMPLES].

%VMSINSTAL-I-SYSDIR, This product creates system disk directory
SYS$COMMON:[BCC$COMMON.RS232_EXAMPLE].

%VMSINSTAL-I-SYSDIR, This product creates system disk directory
SYS$COMMON:[BCC$COMMON.NCT_EXAMPLE]
```

```
ILAN$STARTUP.COM, the startup command procedure, is used to set up
the environment for device connection management. During installation
it will be placed in the [SYS$STARTUP] directory of the system root
on which this installation is being performed. SYS$MANAGER:
SYSTARTUP_V5.COM, your system startup procedure, should be modified
to invoke this procedure when the system boots. However, it will not
be necessary to reboot the system after the installation, since this
procedure is invoked as part of the installation.

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

11. When the IVP runs, the following displays:

```
BASEstar DCM V3.0 Installation Verification Procedure (IVP) starting

%ILANIVP-I-PASS, file check passed
%ILANIVP-I-PASS, installed image check passed
%ILANIVP-I-PASS, parameter check passed

BASEstar DCM V3.0 IVP completed successfully.
 Installation of DCM V3.0 completed at hh:mm

 VMSINSTAL procedure done at hh:mm
```

The BASEstar device connection management installation is complete. Continue with instructions in this chapter for installing additional BASEstar software.

2.3 BASEstar Library Installation Procedure

This section describes how to install BASEstar library software. The BASEstar library management system is designed to provide centralized management of a variety of library files. Therefore, it should be installed on only one node within your network of BASEstar systems.

NOTE: Since the library is a menu-based system, it cannot be installed if your BASEstar installation did not include the menu system.

The BASEstar library installation consists of the following steps:

1. Log in to the system manager's account.

2. Set the default directory to SYS$UPDATE.

   ```
   $ SET DEFAULT SYS$UPDATE
   ```

3. Invoke VMSINSTAL with the following command and kit name:

   ```
   $ @vmsinstal bcclib030 ddcu:
   ```

   where **BCCLIB030** is the BASEstar library kit name and version number and **ddcu:** is the disk or tape drive containing the software kit.

```
        VAX/VMS Software Product Installation Procedure V5.3

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

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

The following products will be processed:

  BCCLIB V3.0

        Beginning installation of BCCLIB V3.0 at hh:mm

%VMSINSTAL-I-RESTORE, Restoring product save set A ...
%VMSINSTAL-I-RELMOVED, The product's release notes have been
 successfully move.
```

The procedure prompts you to choose whether you want to run the installation verification procedure after installation. If this is an upgrade installation you are prompted to choose whether to purge files replaced by installation.

```
      BASEstar Library System V3.0 Installation Procedure
        ------------------------------------------------

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

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

4. The procedure prompts you to choose a directory to install library software. Enter the library directory specification and press Return or press Return to specify the [SYS$SPECIFIC:[BCC$SPECIFIC.LIBRARY]]: directory.

```
    This is a new Library installation.

    A location must be chosen for the directory which will contain
    the directory structure and the actual files referenced by
    the BASEstar Library's file repository system on this node.
    The default directory is SYS$SPECIFIC:[BCCLIB$SPECIFIC]
    and may be overridden if desired. The device on which this
    directory resides must always be mounted and available.

* Enter the library file repository directory specification
   [SYS$SPECIFIC:[BCCLIB$SPECIFIC]]:
```

5. Verify the directory name was correctly entered by pressing Return. If you enter *N* and press Return the installation procedure prompts again for the library directory specification.

```
* Is directory <whatever they typed> correct [YES]?

%VMSINSTAL-I-SYSDIR, This product creates system disk
   directory SYS$SPECIFIC:[BCCLIB$SPECIFIC].
```

6. Enter the directory specification for the library database file and press Return or press Return to specify the [SYS$SPECIFIC:[BCCLIB$SPECIFIC]] directory.

```
    A location must be chosen for the library database file.
    This is the file which maintains all of the relationships
    and attributes for the libraries, groups, directories, and
    files. The default directory for this file is
    SYS$SPECIFIC:[BCCLIB$SPECIFIC] and may be overridden if
    desired. The device on which this directory resides must
    always be mounted and available.

* Enter the library database file location directory specification
 [SYS$SPECIFIC:[BCCLIB$SPECIFIC]]:
```

7. Verify the directory name was correctly entered by pressing Return. If you enter *N* and press Return, the installation procedure prompts again for the library directory specification.

```
* Is directory <whatever they typed> correct [YES]?
```

At this point, the installation procedure continues without further input as follows:

```
    The installation procedure  has  no further questions to
    ask and can continue from this point without user assistance.
    The installation time will vary depending on the type of
    processor on which the installation is being done.

    This installation places a file named BCCLIB$STARTUP.COM
    in the directory SYS$SPECIFIC:[SYS$STARTUP]. The command
    file SYS$STARTUP_V5.COM file should be edited to invoke this
    startup file when the system boots.

%VMSINSTAL-I-MOVEFILES, Files will now be moved to their
     target directories...
      Expansion Bytes <250000>

BASEstar Library V3.0 Installation Verification Procedure

BASEstar Library V3.0 IVP completed successfully
        Installation of BCCLIB V3.0 completed at HH:MM

        VMSINSTAL procedure done at hh:mm
```

The BASEstar library installation is complete. Continue with instructions in this chapter for installing additional BASEstar software.

2.4 BASEstar Utilities Installation Procedure

This section describes how to install BASEstar utilities, including:

- The BCC$BASEGEN command procedure which provides suggested settings for BASEstar and SYSGEN parameters, as well as VMS process quotas. Refer to the *BASEstar for VMS Configuration and Tuning Guide* for information on how to use this utility.
- Text message files if conversion to a non-English language is necessary. These services can also be used to copy the appropriate files into new BASEstar directories.

- VMS version number mismatch software resolves problems with an incorrect version of VMS software installed on a system.

The BASEstar utilities installation consists of the following steps:

1. Log in to the system manager's account.

2. Set the default directory to SYS$UPDATE:

```
$ SET DEFAULT SYS$UPDATE Return
```

3. Invoke VMSINSTAL:

```
$ @VMSINSTAL BCCUTL ddcu:
```

   where **BCCUTL** is the utilities product name and **ddcu:** is the name of the tape or disk drive containing the software kit.

4. When you invoke VMSINSTAL, the system displays the following:

```
     VAX/VMS Software Product Installation Procedure V5.3-1

It is dd-mm-yyyy at hh:mm.
Enter a question mark (?) at any time for help.
```

5. VMSINSTAL asks if you are satisfied with the backup of your system disk:

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

   Enter Y or N and press Return.

   The procedure displays the following:

```
The following products will be processed:
  BCCUTL V3.0

       Beginning installation of BCCUTL V3.0 at hh:mm

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

       Installing BASEstar CORE Utilities Kit

This kit provides the following optional BASEstar files:

BCC$SYSTEM directory:

 BCC$GET_TEXT_FILE.EXE
 BCC$PUT_TEXT_FILE.EXE
 BCC$BASEGEN.COM

SYS$TEST directory:

 BCC$UTL_IVP.COM

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

BASEstar Utility V3.0 Installation Verification Procedure

%BCCUTL-I-PASS, Utility file check passed
```

```
Installation of BCCUTL V3.0 completed at hh:mm
VMSINSTAL procedure done at hh:mm
```

The BASEstar utilities installation is complete. Log out and proceed to Chapter 3 to begin post-installation tasks.

2.5 Installation Messages

This section describes the installation message formats and the messages you may receive during the BASEstar installation.

2.5.1 Message Format

BASEstar installation messages display in the following format:

```
%FACILITY-L-IDENT, TEXT
```

where:

FACILITY — The facility or component name. The facility references are *%IVP* and *%VMSINSTALL*.

L — The severity indicator codes including:

- S for success. The procedure generating the condition value completed successfully.
- I for informational. The procedure generating the condition value successfully completed, but has some further explanatory information.
- W for warning. A procedure returns data or completes an operation but the results might be incomplete or not what the user expected.
- E for error. An error has occurred. The operation was attempted but could not be completed. Any returned information should be regarded as invalid.
- F for severe error. A severe error occurred and the attempted operation was not complete. Any information returned is invalid and further processing will be incorrect.

IDENT — An abbreviation of the message text. The message descriptions are alphabetized according to this abbreviation.

TEXT — The explanation of the message.

2.5.2 Message Listing

The installation messages are in alphabetical order by the IDENT abbreviation.

BADBCC, The installed version of BASEstar is obsolete.

Explanation: Error. An old version of BASEstar software is installed.

User Action: Install BASEstar for VMS, V3.0.

BADBCCVER, This kit only updates version V3.0 of BASEstar.

Explanation: Error. The distribution kit being installed can only be used to update V3.0 of BASEstar for VMS from V2.0 systems.

User Action: If you do not already BASEstar for VMS, V2.0 on your system, contact your Digital sales representative.

BADDCM, The installed version of BASEstar DCM is obsolete.

Explanation: Error. The installed version of BASEstar device connection management software is earlier than V2.0.

User Action: You can only upgrade V2.0 BASEstar systems to V3.0. Contact your Digital sales representative for assistance if you do not own BASEstar for VMS, V2.0.

BADID, Invalid DECnet ID, please try again.

Explanation: Error. You entered an incorrect DECnet ID.

User Action: Enter the correct DECnet ID.

BADVMS, You must be running at least V5.3 of VMS

Explanation: Error. The user is not running VMS V5.3 or later.

User Action: Install VMS V5.3 or later.

BCCRUNNING, BASEstar cannot be running during an installation.

Explanation: Error. BASEstar software cannot be running during an installation.

User Action: Stop BASEstar software on the node.

COMMON, Cluster installations require different roots.

Explanation: Error. An attempt was made to specify the same root directory for both BCC$COMMON and BCC$SPECIFIC on a VAXcluster installation.

User Action: Install BASEstar software using directory locations not in the same system root.

FAIL, Not all processes were started correctly.

Explanation: Error. IVP failed because it could not start the system.

User Action: Verify that BASEstar software is installed correctly. Check the log file, make any corrections, and restart the installation.

FAIL, Not all processes were stopped correctly.

Explanation: Error. IVP failed because it could not stop the device connection management system correctly.

User Action: Start BASEstar software and verify that processes are running correctly (not in local event flag (LEF) state). Also, check that SYSGEN parameters are set correctly.

ILANFAIL, The installation of BASEstar device connection management V3.0 has failed.

Explanation: Error. This message informs you that VMSINSTAL has failed for BASEstar device connection management V3.0. This message displays with other error messages.

User Action: Take the appropriate action for the error condition indicated.

INSFBLOCKS, Insufficient system disk free blocks for installation.

Explanation: Error. There are not enough free blocks on the system disk for this installation.

User Action: Free some blocks and restart the installation.

MISSING, A required device connection management data file is missing.

Explanation: Informational. The installation procedure cannot find a required data file.

User Action: Try to locate the missing data file.

NEEDBCC, BASEstar is not installed on this system.

Explanation: Informational. BASEstar for VMS, V3.0 software is not installed.

User Action: Install BASEstar for VMS V3.0.

NEEDBCC030, Please install BASEstar V3.0 or a later version.

Explanation: Informational. BASEstar for VMS, V3.0 is not installed.

User Action: Install BASEstar for VMS, V3.0 or later.

NEEDDCM030, Please install Product BASEstar DCM V3.0 or later.

Explanation: Informational. BASEstar device connection management software V3.0 is not installed.

User Action: Install V3.0 of BASEstar device connection management software.

NEEDDIR, Unable to locate directory for new ILAN files.

Explanation: Error. The BASEstar directories could not be found.

User Action: Ensure that BASEstar software is installed.

NEEDLICENSE, A BASEstar license is required for installation.

Explanation: Error. The BASEstar license was not installed.

User Action: Install the correct BASEstar license before attempting to install BASEstar software.

NETBLOCKS, BASEstar requires ''nn'' blocks after installation.

Explanation: Error. Not enough free space exists on the disk. The number of disk blocks required by this installation is represented by ''nn''.

User Action: Purge disk files or install the system on another disk that has adequate disk space.

NETBLOCKS, Device Connect Management requires 9000 blocks after installation.

Explanation: Error. Not enough free space exists on the disk.

User Action: Purge disk files or install the system on another disk that has adequate disk space.

NOALTROOT, BASEstar cannot be installed in an alternate system root.

Explanation: Error. The installation command line indicated an alternate system root using the OPTIONS command.

User Action: Restart the installation without this option.

NODECNET, DECnet nodename cannot be translated.

Explanation: Error. The nodename specified cannot be found in the DECnet database.

User Action: Define the nodename and restart the installation.

NODIR, The logical name BCC$SYSTEM or BCC$SYSDATA is not defined on the installed system.

Explanation: Error. The logical name for the BASEstar directories is not defined.

User Action: Check for the location of the directories to see if they exist. If they do, define the logical and restart the installation. If not, de-install BASEstar software and restart the installation.

NOSHR, Shareable image file BCC$SHR.EXE was not found in SYS$LIBRARY.

Explanation: Error. The shareable image file BCC$SHR.EXE could not be found in the appropriate directory.

User Action: Locate the shareable image file, correct the situation, and restart the installation procedure. If the file cannot be found, contact your Digital sales representative.

NOVAXFMS, VAX FMS V2.3 or higher is not installed on this system.

Explanation: Warning. The BASEstar menu system is selected for installation, but FMS V2.3 or higher is not present on the system.

User Action: The BASEstar menu system is not usable until FMS V2.3 or higher is installed. Install VAX FMS V2.3 or higher.

OLDFMS, The installed version of VAX FMS is obsolete.

Explanation: Warning. An old version of VAX FMS is present on the system. The BASEstar menu system requires a minimum of VAX FMS version V2.3 or higher.

User Action: Install VAX FMS V2.3 or higher.

REINIT, All DCM data files will be replaced.

Explanation: Warning. One or more of the data files is missing; device connection management will create (or recreate) all data files.

User Action: None.

WHERESBASESTAR, The logical name BCC$SYSTEM is not defined.

Explanation: Error. The BASEstar startup procedure did not create the BCC$SYSTEM logical.

User Action: Invoke the BASEstar startup command file, located in SYS$MANAGER. Exit the BASEstar system and restart the device connection management installation.

Chapter 3
Post Installation

This chapter describes BASEstar post-installation tasks. When you have completed the installation procedures, log in to the system manager's account and perform the following:

1. **Back up the system disk.**

   Back up the system disk after installing BASEstar software. The procedure for backing up the system disk is described in the *VMS Backup Utility Manual*.

2. **Verify minimum run-time SYSGEN parameters.**

   Table 3–1 describes the SYSGEN parameters recommended for the minimum run-time BASEstar configuration.

Table 3–1: BASEstar Minimum SYSGEN Parameters

MODPARAMS.DAT Entries	Minimum Value
GBLSECTIONS	250
GBLPAGFIL	4096
GBLPAGES	18000
CTLPAGES	60
LOCKIDTBL	2048
RESHASHTBL	512
MAXPROCESSCNT	35
BALSETCNT	33
VIRTUALPAGECNT	25000

Table 3–2 describes the minimum run-time SYSGEN parameters recommended when the BASEstar library system is installed.

Table 3–2: Library Minimum SYSGEN Parameters

MODPARAMS.DAT Entries	Minimum Value
GBLPAGES	45000
GBLSECTIONS	400
PROCSECTCNT	100
GBLPAGFIL	4096

Table 3–2 (Cont.): Library Minimum SYSGEN Parameters

MODPARAMS.DAT Entries	Minimum Value
CTLPAGES	60
LOCKIDTBL	2048
RESHASHTBL	512
MAXPROCESSCNT	35
BALSETCNT	33
VIRTUALPAGECNT	25000
WSMAX	15000

Since these values represent minimum BASEstar runtime SYSGEN parameter settings, you may need to adjust their values as required for systems larger than the minimum BASEstar hardware configuration or for systems running software in addition to BASEstar applications. For example, if you are using BASEstar library software and need to use large libraries, use the following steps to adjust the SYSGEN parameter GBLPAGES.

a. Begin by running the VMS System Generation utility to view the current setting for the GBLPAGES parameter on your system as follows:

```
$ SET DEF SYS$SYSTEM
$ RUN SYSTEM
SYSGEN>USE ACTIVE
SYSGEN>SHOW GBLPAGES
GBLPAGES 18000
SYSGEN>EXIT
$
```

b. Edit the MODPARAMS.DAT file to increase the global pages available. If the GBLPAGES parameter is already set, change the current value to the desired value. If the parameter is not specified, you can add a line to the MODPARAMS.DAT file to specify your desired minimum amount as follows:

```
MIN_GBLPAGES=45000
```

In this way, more global pages can be dynamically allocated if needed, however, your system will maintain a minimum number of global pages equal to your desired value.

c. Run the AUTOGEN command procedure to update the new value. If you want a feedback report, enter the following command:

```
$ @SYS$UPDATE:AUTOGEN SAVPARAMS SETPARAMS FEEDBACK
```

If you do not require feedback, enter the following command:

```
$ @SYS$UPDATE:AUTOGEN GETDATA SETPARAMS NOFEEDBACK
```

d. Once you have run the AUTOGEN procedure, you must shut down the system and reboot in order for the new parameter value to take effect.

3. **Edit the system startup procedure.**

   If you want BASEstar software to automatically start when the system boots, add the following line to the SYS$MANAGER:SYSTARTUP_V5.COM file:

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

   To automatically start BASEstar device connection management when the system boots, add the following line to the SYS$MANAGER:SYSTARTUP_V5.COM file:

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

   To automatically start BASEstar library software when the system boots, add the following line to the SYS$MANAGER:SYSTARTUP_V5.COM file:

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

   For a new installation, this procedure creates the library database files and associated global sections. During an upgrade installation, this command procedure locates the existing database files and creates the library database global sections.

4. **Select BASEstar users.**

   Decide which VMS users require access to BASEstar software and grant them the BCC$USER identifier using the VMS AUTHORIZE utility.

   ```
   UAF> GRANT/IDENTIFIER BCC$USER username
   ```

   where **username** is the name of the user account.

5. **Start BASEstar software.**

   BASEstar software can be started from the SYSTEM account once it has been granted the BCC$USER identifier. It can also be started from any account having the privileges listed in Table 3–3. These privileges must be in the account's authorized privilege list and are added using the VMS Authorize utility:

Table 3–3: VMS Privileges Required to Start BASEstar Software

ALTPRI	DETACH	LOG_IO
NETMBX	PHY_IO	PSWAPM
SHARE	SYSGBL	SYSLCK
SYSNAM	TMPMBX	

Though accounts used to start BASEstar require these privileges in their authorized privilege list, they do not require them in their default privilege list for security reasons. This list represents the minimum privileges needed by all BASEstar processes and applications. Some BASEstar processes may not need all privileges and can be started with only a subset. Whenever new applications need additional privileges not in this list, the additional

privileges can be added to the account's authorized list. The new privileges are available after restarting BASEstar software.

NOTE: The SYSTEM account must be granted the BCC$USER identifier regardless of whether it will be used to start BASEstar. Failure to grant the BCC$USER identifier to the SYSTEM account causes the BASEstar startup process to fail.

To start BASEstar software, enter the following command at the DCL prompt:

```
$ BSTAR START SYSTEM
```

Appendix A

Sample BASEstar Installations

This appendix contains sample installation procedures for BASEstar software. The dialogs are examples of the following types of BASEstar installations:

- Single node
- VAXcluster system
- Upgrade
- Device connection management
- Library
- Utility

A.1 Single Node

This section displays a sample BASEstar single node installation.

```
$ SET DEFAULT SYS$UPDATE

$ @VMSINSTAL BCC030 ddcu:

     VAX/VMS Software Product Installation Procedure V5.3-1

     It is dd-mm-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:
  BCC V3.0

       Beginning installation of BCC V3.0 at hh:mm

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

     BASEstar Kernel Version 3.0 Installation Procedure
     ------------------------------------------------

    BASEstar requires one of the following licenses to be registered
    and loaded on all nodes on which BASEstar will run:
```

```
             Product            Producer    Release Date
             ---------------    --------    ------------
        [1]  BASESTAR             DEC       6-Mar-1991
        [2]  BASESTAR-RT          DEC       6-Mar-1991
        [3]  BASESTAR-LTD         DEC       6-Mar-1991
        [4]  BASESTAR-RT-LTD      DEC       6-Mar-1991

* Which of the above licenses will be used? [1]:

        Product:      BASESTAR
        Producer:     DEC
        Release Date: 6-MAR-1991

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

     This installation allows for either a cluster installation or a
     single node installation. The cluster installation option can
     only be chosen for nodes that share a cluster common system
     disk.

* Do you want to install BASEstar on just one node [YES]?

%BCC-I-SYSCONFIG, Processing node nodename . . .

     This is a new BASEstar installation. The BASEstar CORE must be
     installed, but the Data Management and Menu System subsystems
     are optional.

* Do you want to install BASEstar Data Management [YES]?

* Do you want to install BASEstar External Data Support [YES]?

* Do you want to install BASEstar Menu System [YES]?

   A location must be chosen for the BCC$SPECIFIC directory.
   By default, BASEstar data and command files are installed in
   SYS$SPECIFIC:[BCC$SPECIFIC]. This specification may be
   overridden if desired.

* Enter the BASEstar specific directory specification
[SYS$SPECIFIC:[BCC$SPECIFIC]]:

* Is directory [directory_name_you_typed] correct [YES]?

* Do you want this system to be configured as a Global Name Server [YES]?

BCC$POINT_FILE
==============

INITIAL ALLOCATION              EXTEND ALLOCATION          FILE SIZE

[1]    500 POINTS                    500 POINTS               840
[2]  2,000 POINTS                  1,000 POINTS             2,223
[3] 10,000 POINTS                  5,000 POINTS            10,675
[4] 30,000 POINTS                 10,000 POINTS            27,219

* Enter BCC$POINT_FILE size [1]:

BCC$GROUP_FILE
==============

INITIAL ALLOCATION              EXTEND ALLOCATION          FILE SIZE

[1]   500 GROUPS                    500 GROUPS               819
[2] 2,000 GROUPS                  1,000 GROUPS             2,223

* Enter BCC$GROUP_FILE size [1]:
```

```
BCC$LOCAL_NAME_FILE
===================

INITIAL ALLOCATION              EXTEND ALLOCATION          FILE SIZE

[1]    500 NAMES                    500 NAMES                 342
[2]  2,000 NAMES                  1,000 NAMES                 867
[3] 10,000 NAMES                  5,000 NAMES               4,023
[4] 30,000 NAMES                 10,000 NAMES              10,179

* Enter BCC$LOCAL_NAME_FILE size [1]:

   A location must be chosen for the BCC$COMMON directory.
   By default, BASEstar executable files are installed in
   SYS$COMMON:[BCC$COMMON]. This specification may be
   overridden if desired.

* Enter the BASEstar common directory specification
    [SYS$COMMON:[BCC$COMMON]]:
* Is directory SYS$COMMON:[BCC$COMMON] correct [YES]?

  The node names of all BASEstar Global Name Server systems with
  which this node will work must now be entered. These names are
  required for both global name server systems and for name
  dispatcher systems.

* Enter a Global Name Server node name, <CR> to end list: nodename
* Enter a Global Name Server node name, <CR> to end list: <CR>

     %BCC-I-QUORUMSET, Global server quorum will be set to n.

     If the above quorum value is not consistent with other Global
     Name Server systems in the same BASEstar cluster, the value
     of BCC$QUORUM should be changed after the installation is
     finished and before BASEstar is started on this node for the
     first time.

BCC$GLOBAL_NAME_FILE
====================

INITIAL ALLOCATION              EXTEND ALLOCATION          FILE SIZE

[1]    500 NAMES                    500 NAMES                 342
[2]  2,000 NAMES                  1,000 NAMES                 867
[3] 10,000 NAMES                  5,000 NAMES               4,023
[4] 30,000 NAMES                 10,000 NAMES              10,179

* Enter BCC$GLOBAL_NAME_FILE size [1]:

     The installation procedure has no further questions to ask and
     can continue from this point without user assistance.  The
     installation time will vary depending on the number of nodes
     selected for installation and the type of processor on which
     the installation is being done.

     This installation creates an identifier name BCC$USER, which
     is used to control access to the BCC$SYSDATA directory and the
     data files contained in that directory. After the installation
     is finished, the VMS Authorize Utility must be used to grant
     this identifier to all accounts that will use BASEstar.
```

```
$VMSINSTAL-I-RESTORE, Restoring product save set B  . . .
$VMSINSTAL-I-RESTORE, Restoring product save set C  . . .
$VMSINSTAL-I-RESTORE, Restoring product save set D  . . .
$VMSINSTAL-I-RESTORE, Restoring product save set E  . . .
%BCC-I-INSTALLNODE, Installing BASEstar on node nodename . . .

%VMSINSTAL-I-SYSDIR, This product creates system disk directory
    VMI$ROOT:[BCC$COMMON].
%VMSINSTAL-I-SYSDIR, This product creates system disk directory
    SYS$SYSDEVICE:[SYS0.BCC$SPECIFIC].

%BCC-I-STARTCORE, BASEstar CORE installation beginning on nodename.

   This installation places a file name BCC$STARTUP.COM in the
   directory SYS$SPECIFIC:[SYS$STARTUP] in each system root on
   which this installation is being performed. The SYSTARTUP_V5.COM
   file should be edited to invoke this startup file when the system
   boots.

%BCC-I-STARTDMGT, BASEstar Data Management installation
     beginning on nodename

%BCC-I-STARTDMGT, BASEstar External Data Support installation
     beginning on nodename

%BCC-I-STARTMENU, BASEstar Menu System installation
     beginning on nodename.

   The following UAF parameters should be checked on all accounts
   that will use BASEstar:

       ASTLM           BIOLM          BYTLM
       DIOLM           ENQLM          FILLM
       PGFLQUO         PRCLM          TQELM
       WSDEF           WSEXTENT       WSQUO

   Refer to the installation guide for recommended minimum values
   for these parameters.

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

BASEstar Kernel V3.0 Installation Verification Procedure

%BCCIVP-I-CORESTART, CORE verification starting on node nodename.

%BCCIVP-I-PASS, CORE data files check passed
%BCCIVP-I-PASS, CORE command files check passed
%BCCIVP-I-PASS, CORE executable files check passed
%BCCIVP-I-PASS, CORE support files check passed
%BCCIVP-I-PASS, CORE system files check passed
%BCCIVP-I-PASS, CORE parameter check passed

%BCCIVP-I-DMGTSTART, DMGT verification starting on node nodename

%BCCIVP-I-PASS, DMGT file check passed

%BCCIVP-I-EXTMAPSTART, External Data Server verification starting
     on node nodename

%BCCIVP-I-PASS, External Data Server file check passed

%BCCIVP-I-MENUSTART, MENU verification starting on node nodename
```

```
%BCCIVP-I-PASS, Menu System file check passed
%BCCIVP-I-PASS, Menu System command check passed
%BCCIVP-I-PASS, Menu System menu check passed

BASEstar V3.0 IVP completed successfully

     Installation of BCC V3.0 completed at hh:mm
     VMSINSTAL procedure done at hh:mm
```

A.2 VAXcluster System

This section displays a sample BASEstar VAXcluster installation.

```
$ SET DEFAULT SYS$UPDATE Return

     $ @VMSINSTAL BCC030 ddcu:

     VAX/VMS Software Product Installation Procedure V5.3-1

     It is dd-mm-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:
  BCC V3.0

       Beginning installation of BCC V3.0 at hh:mm

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

     BASEstar Kernel Version 3.0 Installation Procedure
     ------------------------------------------------


    BASEstar requires one of the following licenses to be registered
    and loaded on all nodes on which BASEstar will run:

             Product            Producer    Release Date
             ---------------    --------    ------------
        [1]  BASESTAR             DEC       6-Mar-1991
        [2]  BASESTAR-RT          DEC       6-Mar-1991
        [3]  BASESTAR-LTD         DEC       6-Mar-1991
        [4]  BASESTAR-RT-LTD      DEC       6-Mar-1991

* Which of the above licenses will be used? [1]:

        Product:      BASESTAR
        Producer:     DEC
        Release Date: 6-MAR-1991

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

     This installation allows for either a cluster installation or a
     single node installation. The cluster installation option can
     only be chosen for nodes that share a cluster common system
     disk.

* Do you want to install BASEstar on just one node [YES]? No
```

```
* Enter a node name, <CR> to end list: nodename1
%BCC-I-SYSINFO, Verifying node information...
* Enter a node name, <CR> to end list: nodename2
%BCC-I-SYSINFO, Verifying node information...
* Enter a node name, <CR> to end list:

%BCC-I-SYSCONFIG, Processing node nodename1...

     This is a new BASEstar installation. The BASEstar CORE must be
     installed, but the Data Management and Menu System subsystems
     are optional.

* Do you want to install BASEstar Data Management [YES]?

* Do you want to install BASEstar External Data Support [YES]?

* Do you want to install BASEstar Menu System [YES]?

   A location must be chosen for the BCC$SPECIFIC directory.
   By default, BASEstar data and command files are installed in
   SYS$SPECIFIC:[BCC$SPECIFIC]. This specification may be
   overridden if desired.

* Enter the BASEstar specific directory specification
[SYS$SPECIFIC:[BCC$SPECIFIC]]:

* Is directory [directory_name_you_typed] correct [YES]?

* Do you want this system to be configured as a Global Name
     Server [YES]?

BCC$POINT_FILE
==============

INITIAL ALLOCATION              EXTEND ALLOCATION          FILE SIZE

[1]    500 POINTS                    500 POINTS                840
[2]  2,000 POINTS                  1,000 POINTS              2,223
[3] 10,000 POINTS                  5,000 POINTS             10,675
[4] 30,000 POINTS                 10,000 POINTS             27,219

* Enter BCC$POINT_FILE size [1]:

BCC$GROUP_FILE
==============

INITIAL ALLOCATION              EXTEND ALLOCATION          FILE SIZE

[1]   500 GROUPS                    500 GROUPS                819
[2] 2,000 GROUPS                  1,000 GROUPS              2,223

* Enter BCC$GROUP_FILE size [1]:

BCC$LOCAL_NAME_FILE
===================

INITIAL ALLOCATION              EXTEND ALLOCATION          FILE SIZE

[1]    500 NAMES                    500 NAMES                 342
[2]  2,000 NAMES                  1,000 NAMES                 867
[3] 10,000 NAMES                  5,000 NAMES               4,023
[4] 30,000 NAMES                 10,000 NAMES              10,179

* Enter BCC$LOCAL_NAME_FILE size [1]:
```

```
    A location must be chosen for the BCC$COMMON directory.
    By default, BASEstar executable files are installed in
    SYS$COMMON:[BCC$COMMON]. This specification may be
    overridden if desired.

* Enter the BASEstar common directory specification [SYS$COMMON:
   [BCC$COMMON]]:
* Is directory SYS$COMMON:[BCC$COMMON] correct [YES]?

  The node names of all BASEstar Global Name Server systems with
  which this node will work must now be entered. These names are
  required for both global name server systems and for name
  dispatcher systems.

* Enter a Global Name Server node name, <CR> to end list:

     %BCC-I-QUORUMSET, Global server quorum will be set to n.

     If the above quorum value is not consistent with other Global
     Name Server systems in the same BASEstar cluster, the value
     of BCC$QUORUM should be changed after the installation is
     finished and before BASEstar is started on this node for the
     first time.

BCC$GLOBAL_NAME_FILE
====================

INITIAL ALLOCATION              EXTEND ALLOCATION          FILE SIZE

[1]    500 NAMES                    500 NAMES                  342
[2]  2,000 NAMES                  1,000 NAMES                  867
[3] 10,000 NAMES                  5,000 NAMES                4,023
[4] 30,000 NAMES                 10,000 NAMES               10,179

* Enter BCC$GLOBAL_NAME_FILE size [1]:

     The installation procedure has no further questions to ask and
     can continue from this point without user assistance.  The
     installation time will vary depending on the number of nodes
     selected for installation and the type of processor on which
     the installation is being done.

     This installation creates an identifier name BCC$USER, which
     is used to control access to the BCC$SYSDATA directory and the
     data files contained in that directory. After the installation
     is finished, the VMS Authorize Utility must be used to grant
     this identifier to all accounts that will use BASEstar.

$VMSINSTAL-I-RESTORE, Restoring product save set B  . . .
$VMSINSTAL-I-RESTORE, Restoring product save set C  . . .
$VMSINSTAL-I-RESTORE, Restoring product save set D  . . .
$VMSINSTAL-I-RESTORE, Restoring product save set E  . . .
%BCC-I-INSTALLNODE, Installing BASEstar on node nodename . . .

%VMSINSTAL-I-SYSDIR, This product creates system disk directory
    VMI$ROOT:[BCC$COMMON].
%VMSINSTAL-I-SYSDIR, This product creates system disk directory
    SYS$SYSDEVICE:[SYS0.BCC$SPECIFIC].

%BCC-I-STARTCORE, BASEstar CORE installation beginning on nodename.
```

```
   This installation places a file name BCC$STARTUP.COM in the
   directory SYS$SPECIFIC:[SYS$STARTUP] in each system root on
   which this installation is being performed. The SYSTARTUP_V5.COM
   file should be edited to invoke this startup file when the system
   boots.

%BCC-I-STARTDMGT, BASEstar Data Management installation
     beginning on nodename

%BCC-I-STARTDMGT, BASEstar External Data Support installation
     beginning on nodename

%BCC-I-STARTMENU, BASEstar Menu System installation
     beginning on nodename.

   The following UAF parameters should be checked on all accounts
   that will use BASEstar:

       ASTLM           BIOLM          BYTLM
       DIOLM           ENQLM          FILLM
       PGFLQUO         PRCLM          TQELM
       WSDEF           WSEXTENT       WSQUO

   Refer to the installation guide for recommended minimum values
   for these parameters.

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

     Installation of BCC V3.0 completed at hh:mm
     VMSINSTAL procedure done at hh:mm
```

A.3 Upgrade

This section displays a sample BASEstar upgrade installation.

```
Username: SYSTEM
Password:
 Welcome to VAX/VMS V5.3

    Last interactive login on Wednesday, dd-MMM-yyyy hh:mm

node1>set def sys$update
node1>@vmsinstal bcc030 dua0:

 VAX/VMS Software Product Installation Procedure V5.3
  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:
  BCC V3.0
Beginning installation of BCC V3.0 at hh:mm

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

 BASEstar Kernel V3.0 Installation Procedure
 ------------------------------------------
```

```
    BASEstar requires one of the following licenses to be registered
    and loaded on all nodes on which BASEstar will run:

             Product            Producer    Release Date
             ---------------    --------    ------------
        [1]  BASESTAR             DEC       6-Mar-1991
        [2]  BASESTAR-RT          DEC       6-Mar-1991
        [3]  BASESTAR-LTD         DEC       6-Mar-1991
        [4]  BASESTAR-RT-LTD      DEC       6-Mar-1991

* Which of the above licenses will be used? [1]:

        Product:      BASESTAR
        Producer:     DEC
        Release Date: 6-MAR-1991

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

    This installation allows for either a cluster installation or a
    single node installation.  The cluster installation option can
    only  be  chosen  for  nodes that share a cluster common system
    disk.

* Do you want to install BASEstar on just one node  [YES]?

%BCC-I-SYSCONFIG, Processing node nodename...


* Do you want to update the BASEstar CORE [YES]? y

%BCC-I-DMGTUPDATE, BASEstar Data Management will be updated.

%BCC-I-DMGTUPDATE, BASEstar External Data Support will be updated.

%BCC-I-MENUUPDATE, BASEstar Menu System will be updated.

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

    The installation procedure  has  no further questions to ask and
    can  continue  from  this  point without user assistance.    The
    installation  time  will  vary  depending on the number of nodes
    selected  for  installation  and  the type of processor on which
    the installation is being done.

    This installation creates an identifier named  BCC$USER,  which
    is used to control access to the BCC$SYSDATA  directory and the
    data files contained in that directory.  After the installation
    is finished,  the VMS Authorize  Utility  must be used to grant
    this identifier to all accounts that will use BASEstar.

%BCC-I-IDENTEXISTS, The BCC$USER identifier already exists
%VMSINSTAL-I-RESTORE, Restoring product save set B ...
%VMSINSTAL-I-RESTORE, Restoring product save set C ...
%VMSINSTAL-I-RESTORE, Restoring product save set D ...
%VMSINSTAL-I-RESTORE, Restoring product save set E ...
%BCC-I-INSTALLNODE, Installing BASEstar on node nodename...

%BCC-I-STARTCORE, BASEstar CORE update beginning on NODENAME.
```

```
    This installation places a file named BCC$STARTUP.COM in the
    directory SYS$SPECIFIC:[SYS$STARTUP] in each system root on
    which this installation is being performed.  The SYSTARTUP_V5.COM
    file should be edited to invoke this startup file when the system
    boots.

%BCC-I-STARTDMGT, BASEstar Data Management update beginning on NODENAME.

%BCC-I-STARTDMGT, BASEstar External Data Support update beginning
   on NODENAME.

%BCC-I-STARTMENU, BASEstar Menu System update beginning on NODENAME.

    The following UAF parameters should be checked on all accounts
    that will use BASEstar:

        ASTLM           BIOLM           BYTLM
        DIOLM           ENQLM           FILLM
        PGFLQUO         PRCLM           TQELM
        WSDEF           WSEXTENT        WSQUO

    Refer to the installation guide for recommended minimum values
    for these parameters.

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

BASEstar Kernel V3.0 Installation Verification Procedure

%BCCIVP-I-CORESTART, CORE verification starting on node NODENAME.

%BCCIVP-I-PASS, CORE data files check passed
%BCCIVP-I-PASS, CORE command files check passed
%BCCIVP-I-PASS, CORE executable files check passed
%BCCIVP-I-PASS, CORE support files check passed
%BCCIVP-I-PASS, CORE system files check passed
%BCCIVP-I-PASS, CORE installed image check passed
%BCCIVP-I-PASS, CORE parameter check passed

%BCCIVP-I-DMGTSTART, DMGT verification starting on node NODENAME

%BCCIVP-I-PASS, DMGT file check passed

%BCCIVP-I-EXTMAPSTART, External Data Server verification starting
   on node NODENAME

%BCCIVP-I-PASS, External Data Server file check passed

%BCCIVP-I-MENUSTART, MENU verification starting on node NODENAME

%BCCIVP-I-PASS, Menu System file check passed
%BCCIVP-I-PASS, Menu System command check passed
%BCCIVP-I-PASS, Menu System menu check passed

BASEstar V3.0 IVP completed successfully
 Installation of BCC V3.0 completed at hh:mm

 VMSINSTAL procedure done at hh:mm
NODE1>lo
  SYSTEM       logged out at dd-MMM-yyyy hh:mm
```

A.4 Device Connection Management

This section displays a sample BASEstar device connection management installation.

```
$ SET DEFAULT SYS$UPDATE Return

$ @VMSINSTAL DCM030 ddcu:

     VAX/VMS Software Product Installation Procedure V5.3

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

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

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

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

        The following products will be processed:

        DCM V3.0

        Beginning installation of DCM V3.0 at hh:mm

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

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

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

As part of this installation, Device Access Software for simple
terminal devices, bar code readers (RS-232 devices) and Network
devices are provided along with BASEstar Device Connect Management.

The configuration template file, ILAN_CFG_TT_SUPPORT.COM,
is used to define the paths, types, and devices for terminal devices
and the pseudo device.  Edit this file, as necessary, to reflect your
specific site configuration.

During installation it will be placed in the directory BCC$SYSDATA: .

The configuration template file for Network support,
DCM_NET_CONFIG.TEMPLATE, is used to define Network DAS
compatible paths, types, and devices.  Edit this file,
as necessary, to reflect your specific site configuration.

During installation it will be placed in the directory BCC$SYSDATA: .

The installation procedure has no further questions to ask
and can continue from this point without user assistance.
The rest of the installation will take approximately 25
minutes depending on system load and configuration.

    You must choose a target size for the PHYSICAL POINT data file:
```

```
ILAN$PHYPOINT_FILE
==================

Initial Allocation         Extend Allocation       File Size

[1]    500 Phypoints           500 Phypoints       1,251 Blocks
[2]  2,000 Phypoints         1,000 Phypoints       3,333 Blocks
[3] 10,000 Phypoints         5,000 Phypoints      15,744 Blocks
[4] 20,000 Phypoints        10,000 Phypoints      32,604 Blocks

* Enter ILAN$PHYPOINT_FILE size [1]:

The installation  procedure  has no  further questions to ask and can
continue from this point without user assistance. The rest of the
installation will take approximately 25 minutes depending on system
load and configuration.

 Now checking the BASEstar Parameter file for DCM parameters.

 The BASEstar DCM Parameters have been successfully installed

 The installation procedure is continuing...

        The BASEstar DCM Menus have been successfully installed

        The installation procedure is continuing...

%VMSINSTAL-I-SYSDIR, This product creates system disk directory
VMI$ROOT:[SYSHLP.EXAMPLES.ILAN$EXAMPLES].

%VMSINSTAL-I-SYSDIR, This product creates system disk directory
SYS$COMMON:[BCC$COMMON.RS232.EXAMPLE]

%VMSINSTAL-I-SYSDIR, This product creates system disk directory
SYS$COMMON:[BCC$COMMON.NCT_EXAMPLE]

ILAN$STARTUP.COM, the startup command procedure, is used to set up
the environment for device connection management. During installation
it will be placed in the [SYS$STARTUP] directory of the system root
on which this installation is being performed. SYS$MANAGER:
SYSTARTUP_V5.COM, your system startup procedure, should be modified
to invoke this procedure when the system boots. However, it will not
be necessary to reboot the system after the installation, since this
procedure is invoked as part of the installation.

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

BASEstar DCM V3.0 Installation Verification Procedure (IVP) starting

%ILANIVP-I-PASS, file check passed
%ILANIVP-I-PASS, installed image check passed
%ILANIVP-I-PASS, parameter check passed

BASEstar DCM v3.0 IVP completed successfully
 Installation of DCM V3.0 completed at hh:mm

 VMSINSTAL procedure done at hh:mm
```

A.5 Library

This section displays a sample library installation.

```
NODE1>@sys$update:vmsinstal bcclib030 dua0:

 VAX/VMS Software Product Installation Procedure V5.3

It is dd-MMM-yyyy hh:mm

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

The following products will be processed:
  BCCLIB V3.0

 Beginning installation of BCCLIB V3.0 at hh:mm

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

 BASEstar Library System V3.0 Installation Procedure
 ---------------------------------------------------
* Do you want to run the IVP after the installation [YES]?

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


 This is a new Library installation.

 A location must be chosen for the directory which will contain
 the directory structure and the actual files referenced by
 the BASEstar Library's file repository system on this node.
 The default directory is SYS$SPECIFIC:[BCCLIB$SPECIFIC]
 and may be overridden if desired.  The device on which this
 directory resides must always be mounted and available.

* Enter the library file repository directory specification
   [SYS$SPECIFIC:[BCCLIB$SPECIFIC]]:

* Is directory SYS$SPECIFIC:[BCCLIB$SPECIFIC] correct [YES]?

%VMSINSTAL-I-SYSDIR, This product creates system disk directory
   SYS$SPECIFIC:[BCCLIB$SPECIFIC].

 A location must be chosen for the library database file.
 This is the file which maintains all of the relationships
 and attributes for the libraries, groups, directories and
 files.  The default directory for this file is
 SYS$SPECIFIC:[BCCLIB$SPECIFIC] and may be overridden if
 desired. The device on which the directory resides must
 always be mounted and available.

* Enter the library database file location directory specification
   [SYS$SPECIFIC:[BCCLIB$SPECIFIC]]:

* Is directory SYS$SPECIFIC:[BCCLIB$SPECIFIC] correct [YES]?
```

```
 The installation  procedure has no more questions to ask and
 can  continue  from  this  point  without  user  assistance.
 The  installation  time  will  vary depending on the type of
 processor on which the installation is being done.

BASEstar 3.0 for VMS
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 This installation places a file named  BCCLIB$STARTUP.COM
 in the directory  SYS$SPECIFIC:[SYS$STARTUP].  The command
 file  SYSTARTUP_V5.COM  should be edited to invoke this
 startup command file when the system boots.

%VMSINSTAL-I-MOVEFILES, Files will now be moved to their target
    directories...
       Expansion Bytes  <250000>

BASEstar Library V3.0 Installation Verification Procedure

BASEstar Library V3.0 IVP completed successfully
 Installation of BCCLIB V3.0 completed at hh:mm

 VMSINSTAL procedure done at hh:mm

NODE1>lo
```

A.6 Utility

This section displays a sample BASEstar utility installation.

```
$ set def sys$update

$ @vmsinstal bccutl030 duao:

 VAX/VMS Software Product Installation Procedure V5.3-1


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:
  BCCUTL V3.0

 Beginning installation of BCCUTL V3.0 at hh:mm

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

        Installing BASEstar CORE Utilities Kit

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


    This kit provides the following optional BASEstar files:

    BCC$SYSTEM directory:

        BCC$GET_TEXT_FILE.EXE
        BCC$PUT_TEXT_FILE.EXE
        BCC$BASEGEN.COM

    SYS$TEST directory:
```

```
        BCC$UTL_IVP.COM

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

BASEstar Utility V3.0 Installation Verification Procedure

%BCCUTL-I-PASS, Utility file check passed
 Installation of BCCUTL V3.0 completed at hh:mm

 VMSINSTAL procedure done at hh:mm
```

Appendix B

Files Created During Installation

This appendix lists BASEstar files created during the installation of the BASEstar software including its device connection management and library software. Note that the directory locations in which the files are placed reflects the default placement of files by each installation procedure.

B.1 Files Created by the BASEstar Installation Procedure

Table B–1 displays the files created during the BASEstar installation. These files are present only when BASEstar data management, menu interface, and external data support software is installed. Do not delete any of these files.

Table B–1: BASEstar Installation Files

Directory	Module	Filename
BCC$SYSDATA:	Core	BCC$BCC_MSG.DAT
		BCC$GLOBAL_NAME_FILE.DAT
		BCC$GROUP_FILE.DAT
		BCC$HISTORY_FILE.DAT
		BCC$ITEM_FILE.DAT
		BCC$LOCAL_NAME_FILE.DAT
		BCC$MEMBER_FILE.DAT
		BCC$MSG_SECTION.DAT
		BCC$NAME_SECTION.DAT
		BCC$NODE_FILE.DAT
		BCC$PARAMETER_FILE.DAT
		BCC$RPC_STORE_FILE.DAT
		BCC$SERVER_PORT_FILE.DAT
		BCC$SESSION_FILE.DAT
		BCC$SYSTEM_STARTUP.COM
		BCC$USER_FILE.DAT
		SITE_STARTUP.TEMPLATE

Table B–1 (Cont.): BASEstar Installation Files

Directory	Module	Filename
	Data Management	BCC$DMGT_DATA_SECTION.DAT
		BCC$DMGT_EXTDAT_SECTION.DAT
		BCC$DMGT_MSG.DAT
		BCC$DMGT_SECTION.DAT
		BCC$ELEMENT_FILE.DAT
		BCC$EXTMAP_FILE.DAT
		BCC$FIELD_FILE.DAT
		BCC$POINT_FILE.DAT
		BCC$RELATION_FILE.DAT
		BCC$STRUCTURE_FILE.DAT
	Menu	BCC$MENU_FILE.DAT
BCC$SYSTEM:	Core	BCC$CLI.EXE
		BCC$DISPATCHER.EXE
		BCC$GBLSERVER.EXE
		BCC$LOGGER.EXE
		BCC$MONITOR.EXE
		BCC$RPCR.EXE
		BCC$SERVER.EXE
	Data Management	BCC$DMGTSUP.EXE
		BCC$EVALUATOR.EXE
		BCC$EXTDATSRV.EXE
	Menu	BCC$CFG_COLORS.EXE
		BCC$CFG_EXTERNAL_MAP.EXE
		BCC$CFG_KEYS.EXE
		BCC$CFG_POINT.EXE
		BCC$CFG_STRUCTURE.EXE
		BCC$CFG_USER.EXE
		BCC$SHOW_EXTERNAL_MAP.EXE
		BCC$SHOW_POINT.EXE
		BCC$SHOW_STRUCTURE.EXE
		BCC$SHOW_SYSTEM.EXE

Table B–1 (Cont.): BASEstar Installation Files

Directory	Module	Filename
		BCC$SHOW_USER.EXE
		BCC$UI.EXE
SYS$COMMON:[SYSHLP]	Core	BCC$CLI_HELP.HLB
		BCC030.RELEASE_NOTES
	Menu	BCC$USER_HELP.HLB
SYS$COMMON:[SYSLIB]	Core	BCC$$SHR.EXE
		BCC$SHR.EXE
		BCCDEFS.BAS
		BCCDEFS.FOR
		BCCDEFS.H
		BCCDEFS_UPCASE.H
		BCCDEFS.MAR
		BCCDEFS.PAS
		BCCDEFS.PLI
		BCCDEFS.R32
		BCC_.ADA
SYS$COMMON:[SYSMSG]	Core	BCC$MSG.EXE
		BCC$MSG.MSG
SYS$SPECIFIC:[SYS$STARTUP]	Core	BCC$STARTUP.COM

B.2 Files Created by the BASEstar Device Connection Management Installation Procedure

Table B–2 displays the files created during the device connection management installation. Device connection management requires these files always be present on your system.

Table B–2: BASEstar Device Connection Management Installation Files

Directory	Module	Filename
BCC$SYSDATA:		ILAN$CONFIG_FILE.DAT
		ILAN$DEVICE_FILE.DAT
		ILAN$PHYPOINT_FILE.DAT
		ILAN$POLLING_FILE.DAT
		ILAN$SPT_SECTION.DAT
		ILAN$SYSTEM_STARTUP.COM
		ILAN$_SECTION.DAT
		ILAN_CFG_TT_SUPPORT.COM
BCC$SYSTEM:		ILAN$CLI.EXE
		ILAN$DEVSRV.EXE
	DCM Menu	ILAN$CFG_CONNECT.EXE
		ILAN$CFG_DEVICE.EXE
		ILAN$CFG_PHYPOINT.EXE
		ILAN$CFG_POLLSET.EXE
		ILAN$DELETE.EXE
		ILAN$DEV_CONTROL.EXE
		ILAN$DEV_DIRECTORY.EXE
		ILAN$DEV_READ_DATA.EXE
		ILAN$DEV_READ_IPOINT.EXE
		ILAN$DEV_STATUS.EXE
		ILAN$DEV_WRITE_DATA.EXE
		ILAN$DEV_WRITE_IPOINT.EXE
		ILAN$DOWNLOAD_FILE.EXE
		ILAN$SHOW_CONNECT.EXE
		ILAN$SHOW_DEVICE.EXE
		ILAN$SHOW_PHYPOINT.EXE
		ILAN$SHOW_POLLSET.EXE

Table B–2 (Cont.): BASEstar Device Connection Management Installation Files

Directory	Module	Filename
		ILAN$UPLOAD_FILE.EXE
BCC$SYSTEM:[.RS232_EXAMPLE]		(RS-232 DAS example files)
SYS$COMMON:[SYSHLP]		ILAN$DEVICE_HELP.HLB
		ILAN$DEVICE_SPECIFIC.HLB
		ILAN$HELP.HLB
SYS$COMMON:[SYSHLP.EXAMPLES.ILAN$EXAMPLES]		
		ILAN_READ_EXAMPLE.PLI
		ILAN_WRITE_EXAMPLE.PLI
SYS$COMMON:[SYSLIB]		BCC$DCM_EAI.EXE
		BCC$DCM_EUI.EXE
		ILAN$CLI_SHR.EXE
		ILAN$SERVER_SHR.EXE
		ILAN$SHR.EXE
		ILANDEFS.ADA
		ILANDEFS.BAS
		ILANDEFS.FOR
		ILANDEFS.H
		ILANDEFS_UPCASE.H
		ILANDEFS.MAR
		ILANDEFS.PAS
		ILANDEFS.PLI
		ILANDEFS.R32
		ILANSUPPORT.ADA
		ILANSUPPORT.BAS
		ILANSUPPORT.FOR
		ILANSUPPORT.H
		ILANSUPPORT_UPCASE.H
		ILANSUPPORT.MAR
		ILANSUPPORT.PAS
		ILANSUPPORT.PLI
		ILANSUPPORT.R32

Table B–2 (Cont.): BASEstar Device Connection Management Installation Files

Directory	Module	Filename
		ILAN_DEC.EXE
		ILAN_MIRROR.EXE
		ILAN_NULL.EXE
		ILAN_RS232.EXE
SYS$COMMON:[SYSMSG]		ILAN$MSG.EXE
		ILAN$MSG.MSG
SYS$COMMON:[SYSTEST]		ILAN$IVP.COM
SYS$SPECIFIC:[SYS$STARTUP]		ILAN$STARTUP.COM

B.3 Files Created by the BASEstar Library Installation Procedure

Table B–3 displays the files created during the library management software installation. Library management requires these files always be present on your system.

Table B–3: BASEstar Library Installation Files

Directory	Module	Filename
BCC$LIBRARY_LOCATION		BCC$LIBRARY.DAT
		SIT$KNL_SID.DAT
BCC$SYSTEM:	Library Menu	BCC$CFG_DIRECTORY.EXE
		BCC$CFG_FILE.EXE
		BCC$CFG_GENERATION.EXE
		BCC$CFG_GROUP.EXE
		BCC$CFG_LIBRARY.EXE
		BCC$COMPARE_DEVICE.EXE
		BCC$COMPARE_FILE.EXE
		BCC$COPY.EXE
		BCC$DELETE.EXE
		BCC$DIRECTORY.EXE
		BCC$DOWNLOAD.EXE
		BCC$EDIT.EXE
		BCC$EXPORT.EXE
		BCC$GROUP_DOWNLOAD.EXE
		BCC$GROUP_INSERT.EXE
		BCC$GROUP_REMOVE.EXE
		BCC$GROUP_UPLOAD.EXE
		BCC$IMPORT.EXE
		BCC$PURGE.EXE
		BCC$RENAME.EXE
		BCC$SET_DEF.EXE
		BCC$SHOW_HISTORY.EXE
		BCC$UPLOAD.EXE
BCC$SYSTEM:	Library Startup	MSITLIB_CLI_SI.EXE
		MSITLIB_CLI_SIOSP.EXE

Table B–3 (Cont.): BASEstar Library Installation Files

Directory	Module	Filename
SYS$COMMON:[SYSLIB]		SIT$ATTRIBUTED_SHR.EXE
		SIT$AUTHORIZATION_SHR.EXE
		SIT$DEVICEFILES_SHR.EXE
		SIT$DEVICE_SHR.EXE
		SIT$FILEIO_SHR.EXE
		SIT$INDEX_SHR.EXE
		SIT$INTERESTING_SHR.EXE
		SIT$LIFECYCLE_SHR.EXE
		SIT$LOGGING_SHR.EXE
		SIT$LOGICALFILE_SHR.EXE
		SIT$MSITLIBRARY_SHR.EXE
		SIT$OPTCOLS_SHR.EXE
		SIT$STDFILETYPES_SHR.EXE
		SIT$STREAMS_SHR.EXE
		SIT$TIME_SHR.EXE
		SIT$USERPROFILE_SHR.EXE
		SIT$VERSIONING_SHR.EXE
		SIT$KNLSS_SI.EXE
		SIT$KNL_SI.EXE
SYS$COMMON:[SYSMSG]		SIT$KNL_MSG.EXE
SYS$COMMON:[SYSTEST]:		BCCLIB$IVP.COM
SYS$COMMON:[SYSMGR]:		BCCLIB$REFMNT.COM
SYS$SPECIFIC:[SYS$STARTUP]:		BCCLIB$STARTUP.COM

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AA-PD1QB-TE

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Organization (structure of subject matter)	☐	☐	☐	☐
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Examples (useful)	☐	☐	☐	☐
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