Bookreader for OpenVMS

Installation Guide

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This guide describes how to install Bookreader on an OpenVMS system.

Operating System:	OpenVMS Version 5.4 or higher
Software Version:	Bookreader Version 4.1

Digital Equipment Corporation
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Preface

Bookreader lets you read online documentation in a Motif environment.

Purpose of This Guide

This guide describes how to install and maintain Bookreader on the OpenVMS operating system. You should review the entire guide before you start the installation.

Who Should Use This Guide

This guide is for OpenVMS system managers or others responsible for installing system software. To install the Bookreader software, you must have access to a privileged account such as the SYSTEM account, and you must be familiar with the OpenVMS installation procedure, VMSINSTAL.COM.

For More Information

Refer to the following documents for more information about Bookreader:

- Online Help—choose items from the Bookreader Help menu
- Online documentation that ships on the ConOLD discs:
  - *Using Bookreader*
  - *Managing Bookreader Libraries and Books*
  - *Adding Bookreader to Your Environment*

For more information about the VMSINSTAL command procedure, see one of the following manuals:

- *VMS System Manager's Manual*, in the OpenVMS base documentation set
- *Guide to Setting Up a VMS System*, in the OpenVMS system management kit

Conventions

The following conventions are used in this guide:

Return	In procedures, key names are shown enclosed to indicate that you press a key on the keyboard.
Ctrl/x	A sequence such as Ctrl/x indicates that you must hold down the key labeled Ctrl while you press another key or a pointing device button.
( )	In format descriptions, parentheses indicate that, if you choose more than one option, you must enclose the choices in parentheses.
[ ]	In format descriptions, brackets indicate that whatever is enclosed is optional; you can select none, one, or all of the choices.
italic text	Italic text represents information that can vary in system messages (for example, Internal error *number*).
UPPERCASE TEXT	Uppercase letters indicate that you must enter a command. Uppercase letters also indicate the name of a routine, the name of a file, the name of a file protection code, or the abbreviation of a system privilege.
Bookreader	The term Bookreader refers to the Bookreader™ software.
VMS systems	Refers to OpenVMS VAX systems unless otherwise specified.

1
Preparing for Installation

This chapter describes tasks that you must complete before installing Bookreader. Installing Bookreader is similar to installing other OpenVMS layered products. You must do the following:

- Take an inventory of the software distribution kit.
- Make sure that your system has the prerequisite hardware and enough disk space to install and run Bookreader.
- Make sure that your system has the required OpenVMS operating system components and the prerequisite software.
- If you are installing on a VAXcluster, decide how best to install Bookreader, depending on your configuration.
- Check your global pages and global sections OpenVMS system parameters.
- Back up your system disk.
- Advise your users when the installation will take place and how long it will take. The full installation takes approximately 10 minutes on a VAXstation 3100 system. Your time may vary depending on your system configuration.

Once you have prepared your system, you can then perform the installation procedure as described in Chapter 2, and any necessary post-installation procedures as described in Chapter 3.

1.1 Checking the Distribution Kit

Each Bookreader distribution kit contains:

- The distribution medium for the Bookreader software
- The *Bookreader for OpenVMS Installation Guide*

If your kit is damaged or parts of it are missing, contact your Digital representative.

1.2 Prerequisite Hardware

Bookreader runs on all hardware configurations supported by OpenVMS DECwindows Motif V1.0 or higher.

1.3 Prerequisite Software

To install and run Bookreader, you must have the following:

- A valid OpenVMS operating system configuration running OpenVMS Version 5.4 or higher and OpenVMS DECwindows Motif Version 1.0 or higher.

1.4 Required Operating System Components

Bookreader requires the following OpenVMS Version 5.4 components:

- VMS required files (BASE)
- Network support (NETWORK)

If your system does not meet these requirements, the installation will fail. You must install the required software using VMSTAILOR before performing the Bookreader installation.

1.5 VAXcluster Considerations

You can install Bookreader on a VAXcluster.

In a common-environment VAXcluster, you can install Bookreader on the VAXcluster boot node. This allows more than one VAX processor to share the same Bookreader software.

In a multiple-system VAXcluster, you can install Bookreader on each system disk in the cluster.

You must make sure that each node where you plan to install or run Bookreader meets the minimum system parameter value requirements. See Section 1.6.3 for a list of required system parameter values.

1.6 Preparing Your System

This section tells you which characteristics of your system you need to check before you install Bookreader. These characteristics include:

- Account privileges
- Disk space requirements

- System parameters

You must adjust those characteristics that do not match the minimum values required for installing and running Bookreader.

1.6.1 Checking Privileges of the Installing Account

The account you use to install Bookreader must have the user privilege SETPRV. As one of the first actions, the VMSINSTAL command procedure grants all privileges (except BYPASS) to the process that invokes it. This command succeeds only if the account has SETPRV.

On most systems, the SYSTEM account has SETPRV and is used to install software. The procedures described in this installation guide refer to the SYSTEM account, but they are the same for any account with SETPRV.

1.6.2 System Disk Space Requirements

Your system must have at least 5000 free disk blocks to accommodate the installation.

Use the DCL command SHOW DEVICE to determine the number of free blocks that are available on the system disk, as follows:

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

If the disk does not have enough free blocks, delete unnecessary files to provide the space required.

1.6.3 System Parameter Values

Table 1–1 lists the minimum system parameter values required for Bookreader installation and use.

On a VAXcluster, you must adjust not only the system parameters of nodes on which you install Bookreader, but also the nodes on which you intend to run Bookreader.

Table 1–1 Required Minimum System Parameter Values

System Parameter	Minimum Value
GBLPAGES	1055 unused global pages
GBLSECTIONS	1 unused global section

1.6.3.1 Calculating GBLPAGES and GBLSECTIONS Parameter Values

The values for GBLPAGES and GBLSECTIONS in Table 1–1 indicate that you must have at least 1055 unused global pages and 1 unused global section available for the installation.

To calculate the number of unused global pages and global sections on your system, perform these steps:

1. Use the DCL F$GETSYI lexical function to determine the number of free global pages and global sections:

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

2. If the number of unused global pages or global sections is less than the number specified in Table 1–1, you must increase the value using the AUTOGEN command procedure, as shown in Section 1.6.3.2.

1.6.3.2 Changing Parameter Values with AUTOGEN

Use the AUTOGEN command procedure to change system parameters. To change system parameters with AUTOGEN:

1. Edit the following file:

```
SYS$SYSTEM:MODPARAMS.DAT
```

   For example, to increase the setting for the GBLPAGES system parameter by 1055, add this line to the file:

```
ADD_GBLPAGES = 1055
```

2. Run the AUTOGEN procedure to recalculate your system parameters and reboot the system. Enter the following command at the DCL prompt:

```
$ @SYS$UPDATE:AUTOGEN GETDATA REBOOT
```

   When you specify REBOOT, AUTOGEN performs an automatic system shutdown and reboot. Any users logged on to the system are immediately disconnected during the shutdown. The automatic reboot puts the new parameter values into effect.

   AUTOGEN automatically adjusts some of the SYSGEN parameters based on the consumption of resources since the last reboot. If you do not want to take advantage of this automatic adjustment, include the NOFEEDBACK parameter on the AUTOGEN command line as well. For example:

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

For more information about using AUTOGEN, see the instructions on modifying system parameters in the *Guide to Setting Up a VMS System*.

1.7 Backing Up Your System Disk

At the beginning of the installation, VMSINSTAL asks if you have backed up your system disk. Digital recommends that you do a system disk backup before installing any software. If a system failure occurs at a critical point during the installation, some of the files could be corrupted. Therefore, you should back up your system disk before attempting any software installation.

For more information on backing up your system disk, see the section on the Backup Utility in the *Guide to Maintaining a VMS System*.

1.8 Determining and Reporting Problems

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

- Call Digital if your software contract or warranty agreement entitles you to telephone support.
- Submit a Software Performance Report (SPR).
- Fill out and submit a Reader's Comments form if the problem has to do with the Bookreader documentation. There are Reader's Comments forms at the back of each manual. Use the form from the manual in which you found the error. Include the section number and page number.

Review the Software Product Description (SPD) and Warranty Addendum for an explanation of your warranty. If you encounter a problem during the warranty period, report the problem as indicated above.

1.9 Pre-Installation Check List

Table 1–2 summarizes the tasks you must perform before installing Bookreader. Check to make sure that you have performed all these tasks before proceeding with the installation.

Table 1–2 Pre-Installation Check List

Task	For More Information
Check that you have the prerequisite hardware and software	See Section 1.2 and Section 1.3
Check that you have enough disk space	See Section 1.6.2
Check system parameters	See Section 1.6.3
Back up your system disk	See Section 1.7

2
Installing Bookreader

This chapter describes the procedure for installing Bookreader.

Before you begin installing Bookreader, make sure that your system meets the requirements outlined in Chapter 1.

The full installation takes approximately 10 minutes on a VAXstation 3100 system. Your time may vary depending on the configuration of your system.

2.1 Running the VMSINSTAL Command Procedure

Use the VMSINSTAL command procedure to install Bookreader. For more information about VMSINSTAL, refer to the books listed in the Preface.

If VMSINSTAL detects a problem during the installation procedure, it notifies you and asks if you want to continue. To stop the installation and correct the problem, enter NO or press RETURN. After you have made the correction, you can restart the installation.

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

Follow these steps to install Bookreader:

1. **Log in to the SYSTEM account.**

   Log in at the operator's console terminal under the system manager's account, SYSTEM.

2. **Notify the users.**

   Send a message requesting that all users log out. Use the DCL REPLY command to inform users of the schedule for the installation. Use the SET LOGINS command to prevent others from logging in:

   ```
   $ REPLY/USER "Installation starting in 5 minutes. Please log out."
   $ SET LOGINS/INTERACTIVE=0
   ```

3. **Invoke VMSINSTAL.**

Installing Bookreader
2.1 Running the VMSINSTAL Command Procedure

Enter the following command line to run VMSINSTAL.COM:

```
$ @SYS$UPDATE:VMSINSTAL BKR041 ddcu: OPTIONS N
```

where:

- *@SYS$UPDATE:VMSINSTAL* invokes VMSINSTAL
- *BKR041* is the save set name for the Bookreader software
- *ddcu:* is the device specification for the distribution medium, for example, MUA0:.
- *OPTIONS N* is an optional parameter indicating that you want to see the Release Notes question. If you do not include the OPTIONS N parameter, VMSINSTAL does not ask you about the Release Notes. Digital recommends that you review the Release Notes before proceeding with the installation.

After you invoke VMSINSTAL, you see the following message:

```
        VAX/VMS Software Product Installation Procedure V5.4

It is 06-Mar-1993 at 08:05

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

4. **Answer the backup question.**

   The installation procedure asks if you have backed up your system disk:

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

   If you have not backed up your system disk, you should not continue with the installation until you do so. If you need to back up the system disk, enter NO. VMSINSTAL exits and returns you to the DCL prompt. Back up your system disk, and then start VMSINSTAL again.

   If you have already backed up the system disk, press RETURN to continue.

5. **Mount the media.**

   You receive instructions to mount the distribution medium on the device you specified when you invoked VMSINSTAL (MUA0: in this example):

   ```
   Please mount the first volume of the set on MUA0:.
   * Are you ready?
   ```

   Mount the distribution medium and enter YES to indicate that you are ready to continue.

The following messages appear on your terminal:

```
%MOUNT-I-MOUNTED,  BKR mounted on _MUA0:

The following products will be processed:

  BKR V4.1

        Beginning installation of BKR V4.1 at 08:05

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

6. **Print and read the Release Notes.**

   If you specified OPTIONS N when you invoked VMSINSTAL, you are now asked to choose one of the four options for reviewing the Release Notes:

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

Additional Release Notes Options:

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

* Select option [2]:
```

   Review the Release Notes in case they contain any information about changes in the installation procedures. Selecting option 2 prints a copy of the Release Notes.

   You are prompted for a print queue:

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

   Press RETURN to print the Release Notes on SYS$PRINT, or type a different queue name and press RETURN. You receive a message similar to the following:

```
Job 810 (queue SYS$PRINT, entry 1295) started on SYS$PRINT
```

   If you selected options 1 or 3, the Release Notes are displayed.

7. **Decide whether or not to continue.**

   The installation procedure asks if you want to continue:

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

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

   Enter YES to continue. Otherwise, press RETURN. In either case, the Release Notes are moved to the SYS$HELP directory. The Release Notes are contained in the following file, which you may read or print later:

   SYS$HELP:BKR041.RELEASE_NOTES.

8. **Decide whether or not to purge files.**

   The installation procedure asks if you want to purge (delete) old versions of files replaced by this installation:

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

   Purging is recommended. Press RETURN to purge the old files. However, if you need to keep files from the previous version, enter NO.

9. **Install the Bookreader Library File.**

   The installation procedure asks how you want to install the Bookreader library file. This file contains a bookshelf with the Bookreader online documentation.

   If your system does not currently have a [DECW$BOOK]LIBRARY.DECW$BOOKSHELF file, the installation procedure installs one.

   If your system already has a [DECW$BOOK]LIBRARY.DECW$BOOKSHELF file, you see the following message:

   ```
   A Bookreader Library file already exists on your system
           ([DECW$BOOK]LIBRARY.DECW$BOOKSHELF)
   This installation provides a new LIBRARY.DECW$BOOKSHELF.
   Please enter one of the following:
           1. Replace the existing LIBRARY.DECW$BOOKSHELF, or
                   (saving a copy of the existing file)
           2. Merge the two LIBRARY.DECW$BOOKSHELF files

   * Select an option [1]:
   ```

   Select Option 1 to replace the old LIBRARY.DECW$BOOKSHELF with a new one. Use this option if you have not altered the default LIBRARY.DECW$BOOKSHELF file. You then see the following message:

   ```
   Your existing LIBRARY.DECW$BOOKSHELF will be saved as
   [DECW$BOOK]SAVED_LIBRARY.DECW$BOOKSHELF.

   You should edit the new version of
           [DECW$BOOK]LIBRARY.DECW$BOOKSHELF
   to incorporate into it any books described in
           [DECW$BOOK]SAVED_LIBRARY.DECW$BOOKSHELF
   ```

   Select Option 2 to add the new library file to your current LIBRARY.DECW$BOOKSHELF. Use this option if you have made edits to your default LIBRARY.DECW$BOOKSHELF file. You then see the following message:

```
The two versions of LIBRARY.DECW$BOOKSHELF will be merged
by appending your existing file to the new file supplied
by this installation.
```

If your system already has a LIBRARY.DECW$BOOKSHELF file, but it is not in the default [DECW$BOOK] directory, you see the following message:

```
Your system has a Bookreader library file LIBRARY.DECW$BOOKSHELF
in a location other than [DECW$BOOK].

This installation will place a new Bookreader library
file at [DECW$BOOK]LIBRARY.DECW$BOOKSHELF.

You should modify your current Bookreader library to
incorporate the contents of that file at the beginning
of your library.
```

10. **Check informational messages.**

    The installation procedure displays a series of messages as it performs the following installation tasks:

    - Restores files
    - Notifies you about post-installation procedures
    - Transfers files to their directories

```
  No further questions will be asked during this installation.

  This installation will add the following files:

        [SYSEXE]DECW$BOOKREADER.EXE
        [SYSHLP]BKR041.RELEASE_NOTES
        [SYSHLP]DECW$BOOKREADER.DECW$BOOK
        [DECW$DEFAULTS.SYSTEM]DECW$BOOKREADER.UID
        [DECW$DEFAULTS.SYSTEM]LWK_REG_BOOKREADER.UID
        [DECW$DEFAULTS.SYSTEM]DECW$BOOKREADER.DAT
        [DECW$DEFAULTS.SYSTEM]DECW$BOOKREADER_PROLOG.PS
        [DECW$BOOK]BOOKREADER_USING.DECW$BOOK
        [DECW$BOOK]BOOKREADER_MANAGING.DECW$BOOK
        [DECW$BOOK]BOOKREADER_ADDING.DECW$BOOK
        [DECW$BOOK]BOOKREADER_RELEASE_NOTES.DECW$BOOK
        [DECW$BOOK]LIBRARY.DECW$BOOKSHELF

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

11. **End the installation procedure.**

    The installation procedure ends automatically with the following messages:

```
        Installation of BKR V4.1 completed at 08:15

        VMSINSTAL procedure done at 08:15
```

12. **Make the system available to users.**

    After the installation completes successfully, you should reset system logins to your system default (64 in this example). Then send a message to all users stating that the system is again available. Use the following DCL commands:

```
$ SET LOGINS/INTERACTIVE=64
$ REPLY/USER "Installation complete. System is ready for use."
```

3
Post-Installation Procedures

This chapter describes tasks that you must complete after Bookreader is installed.

3.1 Additional VAXcluster Tasks

To complete the installation of Bookreader on any type of VAXcluster, you must first install Bookreader on each system disk that is shared. Then you must perform the following procedure to replace the DCL tables.

```
$ RUN SYS$SYSTEM:SYSMAN
SYSMAN> SET ENVIRONMENT/CLUSTER/USER=SYSTEM
Remote Password: supply SYSTEM password here
SYSMAN> DO INSTALL REPLACE SYS$LIBRARY:DCLTABLES.EXE
SYSMAN> EXIT
```

3.2 Editing the LIBRARY.DECW$BOOKSHELF File

The installation procedure installs a new LIBRARY.DECW$BOOKSHELF into your [DECW$BOOK] directory. This file contains a bookshelf with the Bookreader online documentation. If your system already had an existing LIBRARY.DECW$BOOKSHELF file, one of the following actions was taken:

- The new library file was merged with your old library file.
- The new library file replaced your old library file, renaming the old library file to SAVED_LIBRARY.DECW$BOOKSHELF.
- The installation found a LIBRARY.DECW$BOOKSHELF file in a location other than [DECW$BOOK] and installed a new LIBRARY.DECW$BOOKSHELF file at [DECW$BOOK].

After the installation, you may need to edit the LIBRARY.DECW$BOOKSHELF file to obtain the proper listing of libraries and bookshelves in your Bookreader Library window. Use a text editor to make any changes.

3.3 Running Bookreader

Users may start Bookreader by selecting the Bookreader menu option in the Session Manager's Application menu.

Users may also enter a command at the DCL prompt to use Bookreader. The following command invokes the Bookreader Motif interface:

```
$ BOOKREADER
```

For a full list of the Bookreader DCL commands, enter the following DCL command:

```
$ HELP BOOKREADER
```

A

Sample Bookreader Installation

This appendix shows a typical installation of Bookreader on an OpenVMS Version 5.4 system.

Table 1–2 summarizes the tasks you must perform before installing Bookreader. Check to make sure that you have completed all these tasks before proceeding with the installation.

```
        Welcome to node MYNODE

Username: SYSTEM  Return
Password:         Return


        Welcome to VAX/VMS Version 5.4 on node MYNODE

    Last interactive login on Monday,  06-JAN-1993 07:59
    Last non-interactive login on Monday, 06-JAN-1993 01:00

$ REPLY/USER "Installation starting in 5 minutes. Please log out." Return
$ SET LOGINS/INTERACTIVE=0 Return
$ @SYS$UPDATE:VMSINSTAL BKR041 MUA0: OPTIONS N Return

        VAX/VMS Software Product Installation Procedure V5.4

It is 06-Mar-1993 at 08:05.

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

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

Please mount the first volume of the set on MUA0:.
* Are you ready? YES Return

%MOUNT-I-MOUNTED, BKR mounted on _MUA0:

The following products will be processed:
  BKR V4.1

        Beginning installation of BKR V4.1 at 08:05

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

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

Additional Release Notes Options:
```

Sample Bookreader Installation

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

* Select option [2]: 2 Return

* Queue name [SYS$PRINT]: Return
Job 810 (queue SYS$PRINT, entry 1295) started on SYS$PRINT

* Do you want to continue the installation [NO]? YES Return

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

* Do you want to purge files replaced by this installation [YES]? Return
A Bookreader Library file already exists on your system
        ([DECW$BOOK]LIBRARY.DECW$BOOKSHELF)
This installation provides a new LIBRARY.DECW$BOOKSHELF.
Please enter one of the following:
        1. Replace the existing LIBRARY.DECW$BOOKSHELF, or
                (saving a copy of the existing file)
        2. Merge the two LIBRARY.DECW$BOOKSHELF files

* Select an option [1]: Return


  No further questions will be asked during this installation.

  This installation will add the following files:

        [SYSEXE]DECW$BOOKREADER.EXE
        [SYSHLP]BKR041.RELEASE_NOTES
        [SYSHLP]DECW$BOOKREADER.DECW$BOOK
        [DECW$DEFAULTS.SYSTEM]DECW$BOOKREADER.UID
        [DECW$DEFAULTS.SYSTEM]LWK_REG_BOOKREADER.UID
        [DECW$DEFAULTS.SYSTEM]DECW$BOOKREADER.DAT
        [DECW$DEFAULTS.SYSTEM]DECW$BOOKREADER_PROLOG.PS
        [DECW$BOOK]BOOKREADER_USING.DECW$BOOK
        [DECW$BOOK]BOOKREADER_MANAGING.DECW$BOOK
        [DECW$BOOK]BOOKREADER_ADDING.DECW$BOOK
        [DECW$BOOK]BOOKREADER_RELEASE_NOTES.DECW$BOOK
        [DECW$BOOK]LIBRARY.DECW$BOOKSHELF

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


        Installation of BKR V4.1 completed at 08:15

        VMSINSTAL procedure done at 08:15


$ SET LOGINS/INTERACTIVE=64
$ REPLY/USER "Installation complete. System is ready for use."
```

B
Bookreader Files

This appendix lists all the files that are transferred to your system during a Bookreader installation. The files are organized by directory. Note that references to SYS$COMMON are valid only if the kit was installed in the system common root (SYS$COMMON).

In SYS$COMMON:[SYSEXE]

```
DECW$BOOKREADER.EXE
```

In SYS$COMMON:[DECW$BOOK]

```
BOOKREADER_USING.DECW$BOOK
BOOKREADER_MANAGING.DECW$BOOK
BOOKREADER_ADDING.DECW$BOOK
BOOKREADER_RELEASE_NOTES.DECW$BOOK
LIBRARY.DECW$BOOKSHELF
```

In SYS$HELP:

```
BKR041.RELEASE_NOTES
DECW$BOOKREADER.DECW$BOOK
```

In DECW$SYSTEM_DEFAULTS:

```
DECW$BOOKREADER.UID
LWK_REG_BOOKREADER.UID
DECW$BOOKREADER.DAT
DECW$BOOKREADER_PROLOG.PS
```

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