

**BookManager READ/MVS and  
BookManager BUILD/MVS  
General Information  
Release 3**

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BookManager READ/MVS and  
BookManager BUILD/MVS

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## **General Information**

Release 3





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**General Information**

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**Note!**

Before using this information and the product it supports, be sure to read the general information under "Notices" on page ix.

### **First Edition (September 1994)**

This revision replaces and makes obsolete previous versions of this book.

This edition applies to Release 3 Modification 0 of the IBM BookManager READ/MVS licensed program, Program Number 5695-046, to Release 3 Modification 0 of the IBM BookManager BUILD/MVS licensed program, Program Number 5695-045, and to all subsequent releases and modifications until otherwise indicated in new editions. Make sure you are using the correct edition for the level of the product.

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## Programming Interface Information

This publication is intended to help customers evaluate the IBM\* BookManager\* READ/MVS and IBM BookManager BUILD/MVS licensed programs. It contains high-level overview information. This publication documents no programming interfaces for use by customers in writing programs that request or receive the services of BookManager READ/MVS or BookManager BUILD/MVS.

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MVS/ESA	System/370
MVS/SP	System/390
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BookMaster	MVS/XA

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Windows	Microsoft Corporation



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## About This Book

This book introduces the IBM BookManager READ/MVS and IBM BookManager BUILD/MVS licensed programs, which allow you to create and use online books. This book explains what online books are, what they look like, how they resemble printed books, and how they are more useful than printed books for you and your company. It also describes how you can create online books and bookshelves, and lists the requirements for installing and using both BookManager READ/MVS and BookManager BUILD/MVS.

---

## Who Should Read This Book

Executives, managers of technical publications departments, and others who are responsible for evaluating the BookManager products should read this book for an overview of BookManager's capabilities and requirements. This book also provides information required for planning to install and use the BookManager products.

This book assumes that you have a general knowledge of the IBM Multiple Virtual Storage (MVS) operating system. You should also be familiar with one of the following generalized markup languages:

- IBM Document Composition Facility (DCF) Generalized Markup Language (GML) Starter Set
- IBM Host Publishing Systems BookMaster\*

---

## How to Use This Book

This book will help you become familiar with the BookManager products and how they can be used. Refer to this book when you plan for and order the BookManager products.

This book includes the following topics:

- “Introducing IBM BookManager Products and Online Books” describes the BookManager products and online books and their similarities to printed books.
- “Advantages of the BookManager Products for Your Organization” summarizes the advantages of BookManager products for anyone using books and documents, for anyone creating or distributing information, and for your company or organization.
- “How BookManager Fits Easily into Your Organization” suggests how the BookManager products might be used in an organization.
- “Finding the Information You Want, When You Want It” shows how BookManager READ/MVS helps you locate and use information in online books.
- “BookManager READ/MVS: Your Path to Online Books” reviews the panels, functions, and features that are included with BookManager READ/MVS.
- “The Index Utility: Creating Comprehensive Search Indexes” describes how you can use the Index Utility to create comprehensive search indexes.

- “BookManager BUILD/MVS: Preparing Your Own Online Books” describes how source files are used to create online books, how pictures and hypertext links can be included, and how BookManager BUILD/MVS creates your online books.
- “Planning for BookManager READ/MVS and BUILD/MVS” provides suggestions for planning and requirements for the installation of BookManager MVS products.

This book also contains a glossary of terms and abbreviations, a bibliography, and an index.

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## What's New in BookManager MVS Release 3

- Software prerequisites are updated to more current levels. You now have a choice of two run-time libraries, C/370\* for MVS/ESA or MVS/XA and LE/370 for MVS/ESA. See “Planning for BookManager READ/MVS and BUILD/MVS” on page 31 for additional information.
- A new hypertext link, called application launch, allows BookManager READ users to start or launch applications from within a softcopy book. See *IBM BookManager BUILD/MVS: Preparing Online Books* for information on this new link. This link is not available on all BookManager READ platforms.
- Automatic reflow of text when resizing the book windows is available in selected BookManager READ platforms, such as BookManager READ for Windows. See *IBM BookManager BUILD/MVS: Preparing Online Books* for additional information.
- High-resolution graphics are supported in addition to the previously supported low-resolution graphics on selected BookManager READ platforms. A new graphic format, OS/2 metafile (MET or METBIN) is processed by BookManager BUILD for inclusion into built books. See *IBM BookManager BUILD/MVS: Preparing Online Books* for additional information.

BookManager licensed programs are now available for these operating system environments.

- IBM VM/ESA (BookManager READ and BUILD)
- IBM OS/2 (BookManager READ and BUILD)
- IBM AIX (BookManager READ)
- IBM DOS (BookManager READ)
- Microsoft\*\* Windows\*\* (BookManager READ)

---

## Where to Find More Information

This book contains information on using BookManager READ and BookManager BUILD in the MVS environment. The following books complete the BookManager MVS library.

BookManager READ/MVS:

- *IBM BookManager READ/MVS: Getting Started and Command Summary*, SC38-2033
- *IBM BookManager READ/MVS: Displaying Online Books*, SC38-2034

- *IBM BookManager READ/MVS: Installation Planning and Customization*, SC38-2035
- *IBM BookManager READ/MVS: Licensed Program Specifications* (hard copy only), GC38-2038.

BookManager BUILD/MVS:

- *IBM BookManager BUILD/MVS: Preparing Online Books*, SC38-2036
- *IBM BookManager BUILD/MVS: Installation Planning and Customization*, SC38-2037

See “Bibliography” on page 55 for a list of books about using BookManager in other environments and for other reference materials that will help you use BookManager READ and BookManager BUILD.



---

## 1.0 Introducing IBM BookManager Products and Online Books

The IBM BookManager programs are a family of products that let you create and use online books at your terminal or workstation. They consist of licensed programs for the following operating systems:

- IBM MVS/Enterprise Systems Architecture (MVS/ESA)
- IBM MVS/Extended Architecture (MVS/XA)
- IBM Virtual Machine/Enterprise Systems Architecture (VM/ESA)
- IBM Operating System/2\* (OS/2\*)
- IBM AIX
- Microsoft Windows
- IBM Disk Operating System (DOS).

BookManager READ is available for Multiple Virtual Storage (MVS), Virtual Machine (VM), OS/2, AIX, Windows and DOS environments. BookManager BUILD is available for MVS, VM, and OS/2.

Each program in the BookManager family has unique characteristics that take advantage of its operating environment and suit the work habits of users in that environment.

BookManager READ/MVS and BookManager BUILD/MVS are individually licensed programs for the MVS operating system.

---

### 1.1 What Is BookManager READ/MVS?

BookManager READ/MVS is a program that helps you use any online book that you have access to. Using the BookManager READ/MVS panels, windows, and function keys, you can manage, display, and search online books quickly and easily.

---

### 1.2 What Is BookManager BUILD/MVS?

BookManager BUILD/MVS is a program that lets you create your own online books from files marked up with Generalized Markup Language (GML) Starter Set, or IBM Host Publishing Systems BookMaster\* tags.

**Note:** You can also create books from SGML source documents. However, the SGML source documents must be translated into GML source documents before processing by BookManager BUILD. The SGML Translator product is required for the translation from SGML to GML.

Instead of preparing the files for a printer, BookManager BUILD/MVS takes the files and produces a single file that contains the text and artwork for an online book.

Books built with BookManager BUILD in the MVS, VM, or OS/2 environments can be read with any of the BookManager READ products:

- BookManager READ/MVS
- BookManager READ/VM
- BookManager READ/DOS
- BookManager READ/2
- BookManager READ/6000
- BookManager READ for Windows.

---

### 1.3 Which BookManager Products Are for You?

If your system is strictly an MVS host system, you can use BookManager READ/MVS to manage, display, and search online books and BookManager BUILD/MVS to build online books.

In addition, you can use programmable workstations connected to your MVS host computer. If your workstations use OS/2, you can install IBM BookManager READ/2 and download online books from MVS to read at your workstation. If your workstations use DOS or Windows, you can install IBM BookManager READ/DOS or BookManager READ for Windows and download online books from MVS to read at your workstation.

This book focuses on BookManager READ/MVS and BookManager BUILD/MVS. If you are interested in the other BookManager products, ask your IBM representative for information about them.

---

### 1.4 What Are BookManager Online Books?

BookManager online books are books, reports, memos, or documents prepared by BookManager BUILD/MVS, BookManager BUILD/VM or BookManager BUILD/2 and stored in your computer. You can view and search them at your terminal with BookManager READ products in MVS, VM, AIX, OS/2, DOS, and Windows environments. You can share them with other users. Online books and documents have many of the qualities of printed books, but they offer you more flexibility. For example, you can search for information directly—simply by asking for what you want to find, rather than searching the index, the table of contents, or page by page.

BookManager online books are organized into bookshelves. A single copy of a book can be part of as many bookshelves as you need.

With BookManager, you can reorganize the bookshelf initially allocated to you to fit your work style. You can set up a bookshelf of books on any subject or to support any task. You can also create separate bookshelves that are relevant to the tasks you perform regularly. For example, you may want to create:

- A bookshelf containing manuals that support your primary responsibility
- A bookshelf containing all of the IBM manuals that pertain to your work
- Another bookshelf containing company documents and information.

Because they contain fewer books, separate bookshelves can save you time when you perform bookshelf searches or look for a particular title.

## 1.4.1 What Are the Similarities Between Online and Printed Books?

Books prepared and viewed with the BookManager products can contain all of the parts you normally expect in a printed book, including:

- Title page
- Preface
- Table of contents
- Chapters
- Tables, charts, and examples
- Appendixes
- Glossary
- Bibliography
- Index.

Online books can also be very simple. They may contain topics—topics are equivalent to chapters or sections in a printed book—with headings and text, or they may contain just plain text, like many of the reports and articles that cross your desk every day.

And just like printed books, online books allow you to:

- Open to a specific place
- Find the information you need by using the table of contents or the index
- Turn directly to any topic
- Move forward and backward
- Make copies of parts of the book
- Save your place and return to it
- Consult a book while performing another task.

You can also display artwork in the form of graphics or images if you have a terminal that supports graphics.

## 1.4.2 What Are the Differences Between Online and Printed Books?

Although there are many similarities between online and printed books, you can do things with online books that you can't do with printed ones. For example, BookManager provides a hypertext linking capability that offers an easy way to move to related information in the same book and among many books. The links allow you to select words in the text and move immediately to another part of a book or to another book on the same bookshelf. Color and highlighting provide visual aids for locating links.

With online books, you can also:

- Search for any word or phrase
- Search for all the words spelled similarly to the one you want
- Search for all the synonyms for the word you want
- Search through all the books on a bookshelf at one time
- View additional information for words in the text (for example, a word's definition in the glossary)
- Change the appearance of a book on your screen using color and highlighting.

---

## 1.5 What Are Some of the Features of BookManager MVS?

The following are some of the features available with BookManager READ/MVS and BookManager BUILD/MVS.

### 1.5.1 Bookshelves

All related books, or the books you use most often, can be organized onto online bookshelves. For example, all the books related to a company's personnel and administrative procedures might be grouped on a bookshelf named POLICY. You can display a bookshelf list that contains all available bookshelves or all bookshelves with similar names. From the bookshelf list, you can select a bookshelf and display all the books on it.

### 1.5.2 Hypertext Links

Hypertext links allow you to move easily from place to place within and between books. The links connect related information, such as a topic and a reference to it, or a word in the text and its glossary definition. Some links are created automatically whenever certain tags are in the markup, and authors can provide additional links by using special tags provided by BookMaster Release 4 or later.

Another type of hypertext link, called application launch, can start or launch applications from within a book. This capability is limited to selected BookManager READ products (such as READ for Windows).

To use links, you select a cross-reference and move to the referenced item, or you select a word or phrase in the text and see additional information. Color and highlighting help you locate the links.

### 1.5.3 Index Utility

The Index Utility lets you create a comprehensive search index that is based on all the books on the bookshelf. Using a bookshelf search index, BookManager READ can search the books on a bookshelf more rapidly, provide better ranking of search matches, and display spelling variations and synonyms of words in a search request.

### 1.5.4 Concurrent Tasks

The IBM Interactive System Productivity Facility (ISPF) split-screen command allows you to divide the screen horizontally in two. With this feature, you can use BookManager READ/MVS concurrently with another application, or you can view two different books at the same time by invoking two different BookManager READ sessions.

### 1.5.5 Notes

BookManager READ/MVS provides several ways to create and view notes in an online book, allowing you to personalize your online book in ways similar to how you might personalize a printed book. For example, you can add comments to an online book as you read it, just as you might write notes in the margins of a printed book. Or, if you are reviewing someone else's document, you can attach comments to specific lines in the text, and then forward the review to the author.

## 1.5.6 Portability of Online Books

Books built with BookManager BUILD/MVS, BookManager BUILD/VM, or BookManager BUILD/2 can be read with any BookManager READ product. Bookshelves built with BookManager READ/MVS, BookManager READ/VM, or the Index Utility can be copied to a programmable workstation that has BookManager READ/2 with OS/2 or BookManager READ/DOS with DOS.

## 1.5.7 Security of Data

You can make your data secure, classifying books so that not everyone can open all of them. Users' access to books and bookshelves can be managed using the security of the IBM Resource Access Control Facility (RACF) or any equivalent security product, and only those who have access to particular books and bookshelves can use them.

## 1.5.8 Formats for Graphics and Images

Graphics formats supported by BookManager BUILD/MVS are ADMGDF, computer graphics metafile (CGM), OS/2 metafile (MET or METBIN) and PostScript\*\*.

Image formats supported by BookManager BUILD/MVS are ADMIMG, PSEG3820, PSEG38PP, PSEG4250, and Comité Consultatif International Télégraphique et Téléphonique (CCITT) G4.

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## 1.6 How Does BookManager Improve on Printed Books?

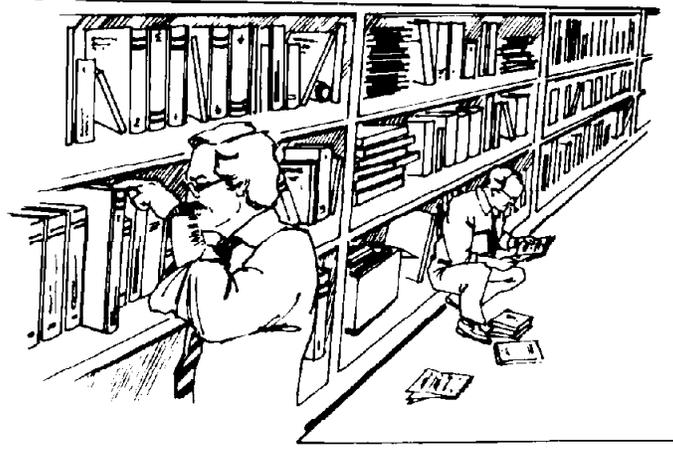


Figure 1. How Does BookManager Improve on Printed Books?

Printed books and documents are a part of our lives. They offer logical ways to organize and use information. However, it takes time to find information in printed books, and it takes space to store them.

To use a printed book, you must have a copy of it. You may have your own copy, you may borrow a copy from someone else, or you may reproduce a copy. You can't always get a copy when you need it, however, and when you do have a copy, you can't always find what you want.

By using BookManager READ/MVS and BookManager BUILD/MVS, you can avoid the limitations of printed documents. Online books allow you to:

- Display information without physically storing it in your office
- Find information when you want it
- Get information to others quickly.

With BookManager READ/MVS, you can search quickly and easily through a book or a bookshelf to find the exact information you need. You can use the Index Utility that is provided with BookManager READ/MVS to speed up your searches even more.

The Index Utility allows you to create a single search index that includes all of the books on a bookshelf. BookManager READ/MVS uses this index to perform faster bookshelf searches and to better rank the search matches. (See "The Index Utility: Creating Comprehensive Search Indexes" on page 23.)

---

## 1.7 Can You Still Have Printed Information?

Although online books have many advantages over printed ones, there are times when you will need a printed copy of part of a book. BookManager READ/MVS lets you print topics from an online book. For most printing, you can use any printer attached to your computer. See "Optional Hardware and Software for

BookManager READ/MVS” on page 40 for information about the printers you can use.

---

## 1.8 Where Do Online Books Originate?

Your organization can use BookManager BUILD/MVS, BookManager BUILD/VM, or BookManager BUILD/2 to create online books for users of BookManager READ/MVS. Users can also use BookManager READ/MVS to read online books acquired from other sources. For example, users can use BookManager READ/MVS to read the online books provided with the IBM BookManager family of products and certain other IBM products.

Online books can be built using the same SCRIPT files you have created for printed documents. You can use files marked up with BookMaster, CALS SGML, or GML Starter Set tags. You can also create new SCRIPT files for online books just as you would for new printed books. Instead of directing these files for output at a printer, use BookManager BUILD to format them for viewing at a terminal.

---

## 1.9 How Do You Organize Online Books?

BookManager READ/MVS lets you group your books onto bookshelves that can be used just like bookshelves of printed books. Books can be grouped by subject or by frequency of use. For example, you might want all your company glossaries, standards manuals, and style guides on one bookshelf to use when writing or editing reports. Or, you can group books by audience, creating bookshelves for individual users, work groups, or entire companies.

Users working with bookshelves can:

- Review an up-to-the-minute list of available bookshelves and books
- Sort the bookshelves or books
- Regroup the books to suit their particular needs
- Create a common bookshelf for sharing books with other users
- Remove unwanted bookshelves or books
- Add new bookshelves or books
- Review the description of a bookshelf or book
- Replace a book with another version or list both versions
- Add a book on one bookshelf to another bookshelf
- Search the bookshelf or book for words or phrases.

When you perform a bookshelf or book search, BookManager READ/MVS lists the books or topics that contain search matches and ranks these matches by their importance, based on the locations and frequencies of the matches. Color and highlighting help you locate the search matches in the text.

You can customize the criteria for each bookshelf or book search to maximize your results. In addition to searching for a word, phrase, series of words, or string of characters, you can also search for:

- Synonyms of search words
- Similar spellings of search words
- Partial words or phrases
- Matches in capitalization
- Matches that share the same root word.

---

## 1.10 What About IBM Manuals?

The soft-copy manuals for the BookManager products are included with their products. IBM offers many other product manuals in soft-copy form. Most of these soft-copy product manuals can be found in collection kits. Collection kits are multiple, related soft-copy libraries usually distributed on CD-ROM. Refer to IBM Announcement Letters or ask your IBM marketing representative for complete and current information about IBM soft-copy manuals, collection kits, and how to order them.

If you have product manuals in soft-copy form, you can use BookManager READ to display them instead of using printed copies. If you have the IBM source files, which include BookMaster tags, you can use BookMaster and BookManager BUILD to build your own online versions of the books.

---

## 1.11 What Languages Are Supported?

You can build, search, display, and print books in these languages:

Belgian Dutch	French	Swedish
Belgian French	German	Swiss French
Brazilian Portuguese	Italian	Swiss German
Canadian French	Norwegian	Swiss Italian
Danish	Portuguese	U.K. English
Dutch	Spanish	U.S. English

The required linguistic dictionaries for these languages are provided on the BookManager product distribution tape.

---

## 2.0 Advantages of the BookManager Products for Your Organization

The BookManager products offer your company or organization many advantages, especially if you handle large amounts of information.

---

### 2.1 Advantages for Anyone Using Books and Documents

As a user of books, documents, and technical manuals, imagine:

- Having less paper in your office and more space on your desk
- Having less printed information to handle, mail, and distribute
- Having all the books and documents you need, when you need them, in a familiar form
- Using your computer to search a single book or a group of books for information
- Getting additional information on unfamiliar words in a book
- Splitting the screen in two and viewing an online book while working on another task
- Adding technical or editorial comments to a document you are reviewing
- Sharing books in an online departmental bookshelf
- Grouping books on bookshelves according to how you plan to use them
- Knowing that your IBM manuals match the level of the program or hardware you are using
- Tailoring IBM manuals for the users at your site.

---

### 2.2 Advantages for Anyone Creating Information

As a writer of reports, documents, and books, imagine:

- Creating online books from the same text that you use to create printed books
- Having your own copies of books while sharing them with others
- Splitting the screen and consulting two online books at the same time
- Adding notes of interest to a group of users.

---

### 2.3 Advantages for Anyone Distributing Information

As a member of an industrial or government organization that distributes technical documentation such as proposals, reports, technical specifications, and books, imagine sending and receiving documentation online:

- With no need to handle, mail, or distribute printed copy
- At your convenience, night or day
- When time is critical
- In an acceptable format for differing computer environments, such as OS/2 and DOS.

---

## 2.4 Advantages for Your Company or Organization

As a member of a business that runs on information, imagine:

- Eliminating the need for costly storage rooms for manuals
- Accessing up-to-date information online
- Limiting the content of online information to suit a task
- Exchanging online information resources with other users.

As a user of IBM manuals, imagine:

- Ordering, storing, and distributing fewer printed manuals
- Printing just the parts of manuals you need, when you need them
- Tailoring manuals to match the way you use IBM's programs
- Having immediate access to information.

As a manager of computer systems, imagine:

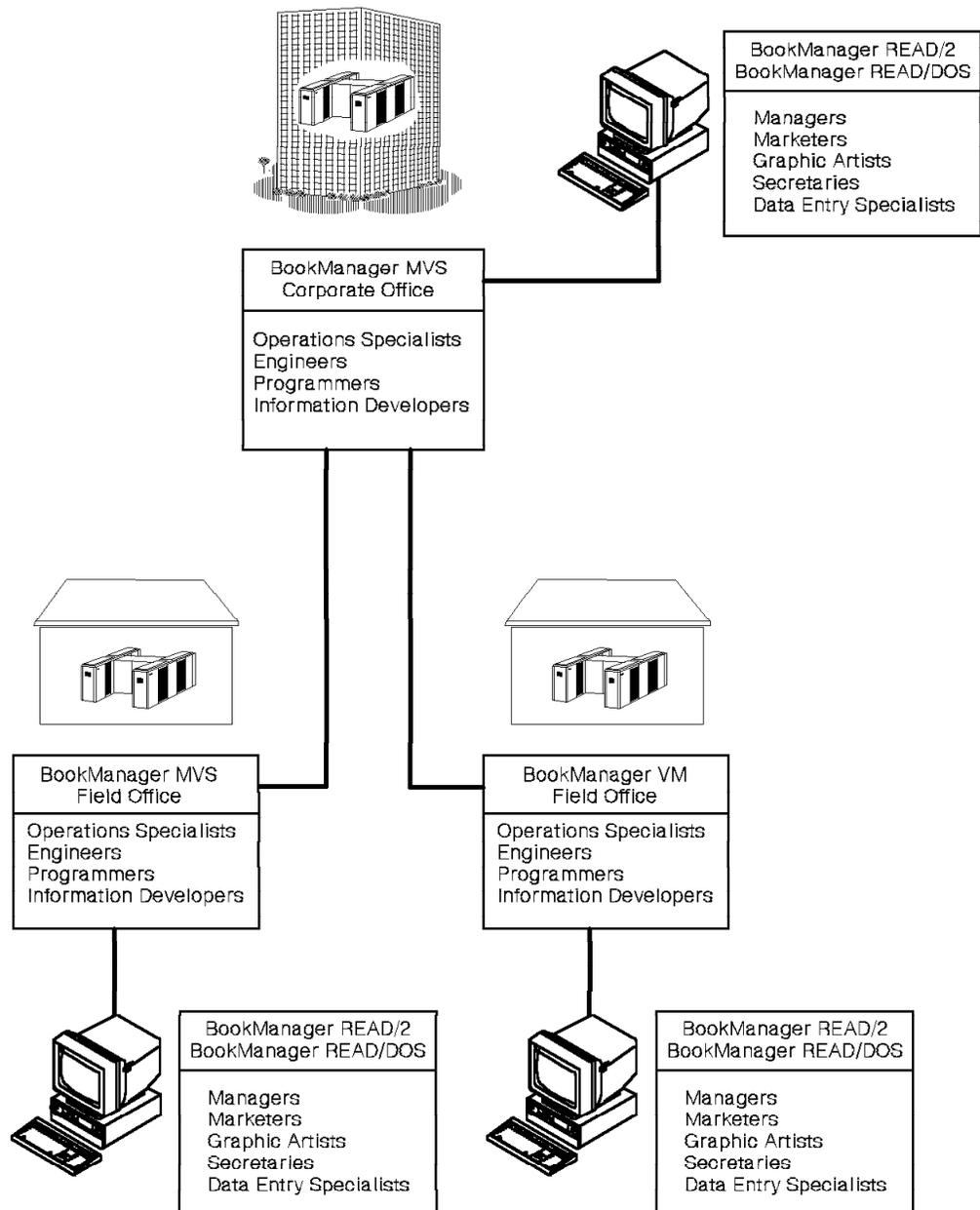
- Updating books just like program code
- Sharing bookshelves
- Collecting the company's online books in a central bookshelf
- Classifying books so that not everyone can open all of them
- Having viewable books that are automatically compressed to save space.

## 3.0 How BookManager Fits Easily into Your Organization

The imaginary organization described here suggests how BookManager makes it easy for different groups of users to use, share, and protect information.

### 3.1 Imagine Working for This Organization

Imagine you have an organization that looks something like the one shown in this figure.



EOX01F01

Figure 2. Typical Organization

---

## 3.2 Using Online Books Throughout Your Organization

This imaginary organization has a variety of computer users. They need differing information to do their jobs, and much of this information must be shared.

### 3.2.1 Online Books at the Corporate Office and the Field Offices

In the corporate office and the field offices of this organization, operations specialists, engineers, and system programmers manage and support the computer system. It is vital that they have up-to-date information they can find quickly and easily. They are using BookManager READ to access that information in their set of online bookshelves containing IBM system and application manuals.

Application programmers and information specialists who develop new programs, write guides for users, and build books have BookMaster, BookManager BUILD, BookManager READ, and the other publishing tools for creating online books. Application programmers need access to information in various programming manuals. Their set of online bookshelves contains the manuals they need when creating their programs. The writers' set of online bookshelves contains the manuals they need when creating their books and drawings. Because both the programmers and writers are also using IBM RACF to control their ability to share information, their specifications and drafts of books are secure on their bookshelves.

Notice that the corporate office and one of the field offices of this organization have MVS computer systems, while the other field office runs on VM. Books built with BookManager BUILD/MVS at the corporate office can be read at the field office with BookManager READ/VM. Similarly, this field office might build books using BookManager BUILD/VM and send them to the corporate office, where they can be read with BookManager READ/MVS.

### 3.2.2 Online Books at Workstations Throughout the Organization

At the corporate office as well as the field offices, books and bookshelves built with BookManager BUILD/MVS or BookManager BUILD/VM are downloaded to programmable workstations that have BookManager READ/2 with OS/2, BookManager READ/DOS with DOS, or BookManager READ for Windows with Windows.

At these workstations, managers, marketers, graphic artists, secretaries, and data entry specialists—and many others who share the organization's business data—use a variety of online bookshelves containing such books as IBM application manuals, company manuals, and reports. For example, secretaries may need to see company procedures, managers might be looking for forecasts and financial data, and marketers might be looking for details about the services or products the company provides.

---

## 4.0 Finding the Information You Want, When You Want It

One of the most valuable features of BookManager READ/MVS is its ability to find the information you want quickly, whether it be in one book or in many books.

Suppose you need to fill out an evaluation form for an employee, but first you would like to read about how to evaluate employees. You have on your computer a bookshelf called *Business Management*, which contains a dozen books concerning business management. This is how you could use BookManager READ/MVS to find information about employee evaluation in these books:

1. Start BookManager READ and open the Business Management bookshelf.
2. Ask to search the bookshelf.
3. Enter the phrase you want to find — *employee evaluation*.

BookManager READ uses its fuzzy search option, which means it searches for words that have the same root as the words in the search request. In a fuzzy search, every sentence that contains the root words *employee* and *evaluate* is found in every book on the bookshelf.

When the search ends, BookManager provides a list of books containing matches to the search criteria.

```

List All Books with Matches

6 of 6 books searched
Fuzzy matches for:  employee evaluation
                    Search Matches 1 to 3 of 6
GC23-0023-04  Managing a Business
GC34-0098-01  Personnel Management
GC34-0101-04  Employee Handbook

Command ==>
F1=Help   F7=Bkwd   F8=Fwd   F10=Explain   F12=Cancel
SCROLL ==> PAGE
```

Figure 3. Example of a Search

The list is ranked, with the book containing the best information matching the search request at the top of the list. You can open any of the books to see the topics that contain search matches.

Because this was a fuzzy search, you may find such matches as:

- ...the evaluation of any employee...
- ...the employees are evaluated...

The words that match the search request can be highlighted to make them easy to spot on the screen. If you want to look at another book on the list of books containing search matches, you can return to the list and select the book.

Assume you select the book *Managing a Business* from the list of books containing search matches. You then select a topic in that book concerning employee evaluation. That topic cross-references a topic about employee evaluations in your company's employee handbook. This is how you could use the hypertext link feature of BookManager READ/MVS to move to the topic in the employee handbook:



---

## 5.0 BookManager READ/MVS: Your Path to Online Books

With BookManager READ/MVS, you can easily display, search, and manage your online bookshelves and books. This topic introduces you to tasks you can perform.

---

### 5.1 Starting BookManager READ/MVS Is Easy

You can start BookManager READ/MVS by selecting the BookManager READ option on the ISPF IBM Products panel, if your site has installed BookManager READ on this panel.

You can also start BookManager READ by typing the following command after the TSO/E READY mode message and pressing ENTER:

```
bookmgr
```

---

### 5.2 Getting Around in BookManager READ/MVS

BookManager READ/MVS provides easy-to-use panels to help you access the information you need. You use panels to display, search, and manage your bookshelves and books. From any panel, you can get help, exit BookManager READ, or issue BookManager READ, Time Sharing Option (TSO), or ISPF commands.

BookManager READ provides three primary types of panels:

- You display a *bookshelf list* to work with the bookshelves that are available to you.
- You display a *bookshelf* to work with some or all of the books on a bookshelf.
- You display a *book* to look at the contents of a single book.

## 5.2.1 Working with a List of Bookshelves

The Bookshelf List panel shows the names and descriptions of the bookshelves you can access. A sample bookshelf list panel appears in Figure 5.

```
Books View Options Help
-----
                          Bookshelf List                               Shelves 1 to 6 of 6

Shelf Name  Description
- BOOKMGR   BookManager Product Line books
- DISPLAY   GDDM/370 Manuals
- MVS       The MVS Publication Library
- NLP       Natural Language Processing books
- PUBLISH   IBM Publishing Product manuals
- VMXA     The VM/XA SP2 Publication Library

Command ==> _____ SCROLL ==> PAGE
F1=Help     F3=Exit     F5=Refresh  F6=Describe  F7=Bkwd    F8=Fwd
F10=Actions F11=Retrieve F12=Cancel
```

Figure 5. Sample Bookshelf List Panel

From a bookshelf list you can:

- View a description of a bookshelf
- Add, update, copy, or discard bookshelves
- Send bookshelves to another user
- Sort the bookshelves by name or description
- List specific bookshelves
- Select a default bookshelf list
- Select a default bookshelf
- Search a bookshelf for specific words or phrases
- Open a bookshelf to display the books on it
- Open a book
- Set display, search, print, edit, and copy options for books.

## 5.2.2 Working with Bookshelves

The Bookshelf panel displays the name, title, and date built for every book on the bookshelf. A sample bookshelf panel appears in Figure 6.

```
Books View Search Group Options Help
-----
                          MVSPUBS Bookshelf

                          Books 1 to 6 of 6
Book Name  Book Title                                     Date
- EOX01MST  BookManager READ/MVS and BUILD General Inform 90/01/18
- EOX02MST  BookManager READ/MVS: Getting Started and Com 90/09/22
- EOX03MST  BookManager READ/MVS: Displaying Online Books 90/10/18
- EOX04MST  BookManager READ/MVS: Installation Planning a 90/08/19
- EOY03MST  BookManager BUILD/MVS: Preparing Online Books 90/09/15
- EOY04MST  BookManager BUILD/MVS: Installation Planning 90/10/08

Command ==> _____ SCROLL ==> PAGE
F1=Help   F3=Exit   F4=Search   F5=Refresh   F6=Describe   F7=Bkwd
F8=Fwd    F10=Actions F11=Retrieve F12=Cancel
```

Figure 6. Sample Bookshelf Panel

From a bookshelf you can:

- View a description of a book
- Open a book
- Create a new bookshelf
- Update a bookshelf by adding or deleting books
- Select a default bookshelf
- Search the bookshelf for specific words or phrases
- Select books to view that contain search matches
- Sort the books by name, date, title, or document number
- Open a different bookshelf
- Set display, search, print, edit, and copy options for books.

## 5.2.3 Working with Books

Figure 7 shows a book opened to its table of contents.

```
Books GoTo Search Notes Services Options Help
-----
CONTENTS Table of Contents          (C) Copyright IBM Corp. 1989, 1991
                                         Topic lines 1 to 16 of 258

COVER          Cover Page
EDITION        Edition Notice
CONTENTS       Table of Contents
FIGURES        Figures
TABLES         Tables
NOTICES        Notices
INTERFACES     Programming Interfaces
TRADEMARKS     Trademarks and Service Marks
PREFACE        About This Book
WHO            Who Should Read This Book
HOW            How to Use This Book
WHAT           What's New in BookManager
WHERE          Where to Find More Information
1.0            Getting Started
1.1            What Online Books Are
1.1.1         How Online Books Are Similar to Printed Books

Command =====> SCROLL =====> PAGE
F1=Help  F3=Exit  F4=Unlink  F5=Notes  F6=Review  F7=Bkwd
F8=Fwd   F10=Actions F11=Retrieve F12=Cancel
```

Figure 7. Example of an Online Book

## 5.2.4 Using Panels

Each BookManager READ panel contains several areas:

- An action bar
- A scroll field
- A command line
- A status line
- A function key area.

You can select any action bar item by placing the cursor on the item and pressing ENTER. Additional choices for action bar items are displayed in pull-downs. The following figure shows the **Books** pull-down in a book.

```
Books GoTo Search Notes Services Options Help
-----
- 1. Open a book...
  2. Open a bookshelf...
  3. List books...
  4. List bookshelves...
  5. Describe...
  6. Send...
  7. Close book...
  8. Exit BookManager...
```

Figure 8. Pull-Down

Occasionally BookManager READ/MVS needs you to provide additional information or confirm a choice you made. Windows with additional choices are displayed for you to continue your dialog with BookManager READ/MVS. The following figure shows the **Send Bookshelf** window.

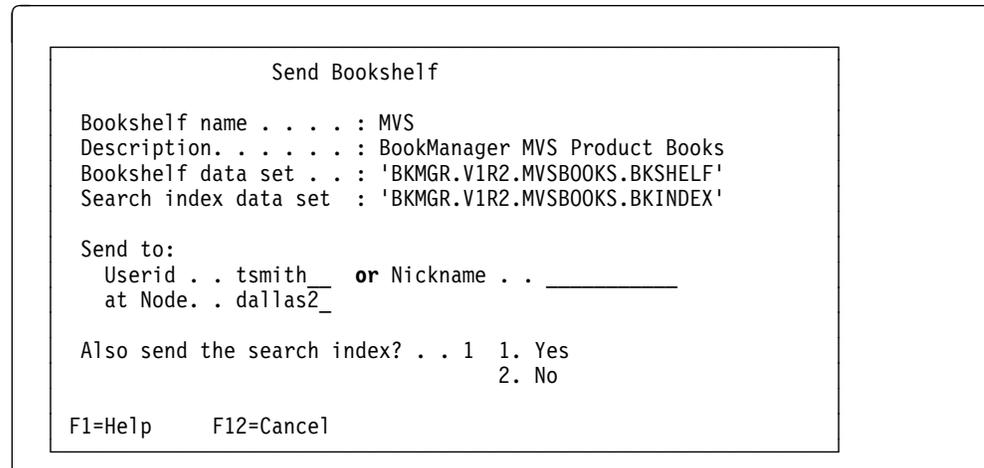


Figure 9. Window

---

## 5.3 How BookManager Helps You Use Online Books

You can open an online book by starting BookManager READ/MVS and going directly to a book or by selecting the book from a bookshelf or a list of books with search matches. The table of contents in an online book resembles the table of contents in a printed book. However, notice in the following figure that BookManager READ/MVS uses topic identifiers instead of page numbers to indicate locations of topics in a book.

```

Books GoTo Search Notes Services Options Help
-----
CONTENTS Table of Contents          (C) Copyright IBM Corp. 1989, 1991
                                       Topic lines 1 to 16 of 258

COVER          Cover Page
EDITION        Edition Notice
CONTENTS       Table of Contents
FIGURES        Figures
TABLES         Tables
NOTICES        Notices
INTERFACES     Programming Interfaces
TRADEMARKS     Trademarks and Service Marks
PREFACE        About This Book
WHO            Who Should Read This Book
HOW            How to Use This Book
WHAT           What's New in BookManager
WHERE          Where to Find More Information
1.0            Getting Started
1.1            What Online Books Are
1.1.1          How Online Books Are Similar to Printed Books
1.1.2          How Online Books Are More Useful Than Printed Books

Command ===== SCROLL ===== PAGE
F1=Help   F3=Exit   F4=Unlink  F5=Notes  F6=Review  F7=Bkwd
F8=Fwd    F10=Actions F11=Retrieve F12=Cancel

```

Figure 10. Online Book with Topic Identifiers

### 5.3.1 Move Through a Book

You can move through an online book by:

- Scrolling through the panels
- Scrolling through the topics
- Selecting a topic from the table of contents
- Requesting a topic by name
- Selecting a figure from the figure list
- Selecting a table from the table list
- Selecting a subject reference from the index
- Selecting **GoTo** from the action bar.
- Selecting a link or cross-reference.

You can also move through an online book by selecting a list of topics you want to view. You can select a list of topics you have already viewed, or you can view all topics with:

- Revisions
- Bookmarks
- Notes
- Search matches.

You can also select a hypertext link or perform a search to move to more information (see “Link to Related Information” on page 21).

### 5.3.2 Link to Related Information

Hypertext links let you move from a word, phrase, or reference to related information in the same book or another book on the same bookshelf. When you place the cursor on a word and press ENTER, BookManager READ/MVS displays related information such as:

- Other places in the text, as defined by the book's author
- Index entries
- Glossary terms
- Message or code numbers
- Programming language elements such as the syntax, defaults, and parameters for a command.

You can then choose which one of these you want to see. For example, you might select a glossary term to move to the word's definition.

You can also move to cross-references such as:

- Figure references and figures
- Table references and tables
- Topic references and topics.

Color and highlighting are used to help you find the hypertext links in the text.

### 5.3.3 View Graphics and Images

BookManager allows authors to include graphics and images in online books. These pictures can be moved or sized, allowing you to zoom in to make a portion of a picture larger or zoom out to reduce its size.

Character graphics are displayed within the text of an online book. Vector graphics and raster images are indicated by the phrase *PICTURE identifier*, where *identifier* is the number assigned to the picture. If your display device supports graphics, you can view vector graphics and raster images by placing the cursor anywhere on this phrase and pressing ENTER. You can also print these graphics and images if your print device supports artwork. For more information about graphics and images, see "Vector (Line) Graphics" on page 27 and "Raster (Dot) Images" on page 28.

### 5.3.4 Save Your Place with Bookmarks

BookManager READ/MVS allows you to place many temporary bookmarks in an online book. You can also place a closing bookmark to save your place as you are closing an online book. If there is a closing bookmark in a book, the next time you open the book, it opens to that bookmark.

While in a book, you use the **Bookmark List** window when you want to return to a bookmark. This window displays the topic name and topic identifier of each location in the book that has a bookmark, including the closing bookmark. You select the place you want to view, and BookManager READ/MVS displays it.

### 5.3.5 Write, Send, and Share Notes

You can attach comments, questions, or instructions either to a topic by creating a topic note, or to a line by creating a line note. BookManager READ/MVS marks each topic containing a note with a note indicator in the status line of the topic.

Notes can be:

- Listed
- Reviewed
- Edited
- Discarded
- Sent to other users
- Received from other users
- Merged with other notes
- Printed with the related text.

### 5.3.6 Copy and Print Topics

While looking at a book, you may decide that you need a soft copy or a printed copy of one or more topics. You can:

- Copy or print a topic or topics with or without associated notes
- Copy or print only those topics that have notes
- Copy or print only the notes in a topic or topics.

When you copy or print topics using BookMaster GML or GML Starter Set options, graphics and images that are part of the topic are included in the output.

### 5.3.7 Edit a Book's Source Files

If you have write access to source files, you can edit an online book's source from within BookManager READ/MVS. When you edit a topic, you are changing only the source files, not the files that BookManager READ displays. To alter the way BookManager READ displays the book, you rebuild the edited book with BookManager BUILD.

---

## 6.0 The Index Utility: Creating Comprehensive Search Indexes

The Index Utility creates a search index based on the information in all of the books on a bookshelf. Because BookManager READ/MVS searches this index to identify books containing search matches, instead of opening and searching each book on the bookshelf, the search is much more rapid. You can search an indexed bookshelf in about the same amount of time that it takes to search a single book. The Index Utility also improves BookManager READ/MVS's ability to rank the search matches.

Using the search index created by the Index Utility, you can:

- Search a bookshelf more quickly
- Search books that are on the bookshelf but not available for you to view.

You can search a bookshelf without the Index Utility, but in this case BookManager READ/MVS opens each book to search for the requested information. When a bookshelf with no index is searched, the search can take more time, and the results do not include books that are not available for you to view.

---

### 6.1 How Many Search Indexes Should You Build?

You can create a single search index to search all of your bookshelves, or you can create several search indexes. For example, you might decide to create a separate search index for each bookshelf.

Having all of the bookshelves in one search index does not affect the time it takes to search one particular bookshelf. BookManager READ/MVS searches only the books on that bookshelf and ignores all other books in the index.

If you decide to create several search indexes, you can include the same book in more than one bookshelf search index. For example, you might index a user's guide containing equipment specifications on a bookshelf created for user's guides, as well as on a bookshelf consisting of equipment specifications for several products.

---

### 6.2 How Do You Manage a Search Index?

It takes much less time to update a search index than to create one. The Index Utility processes only the new additions to the bookshelf.

If you use BookManager READ/MVS to remove books from a bookshelf, the corresponding search index does not need to be updated. The Index Utility searches only the books on the bookshelf and ignores all other books in the index. Neither does the search index need to be updated when you use BookManager READ/MVS to add books to a bookshelf. However, because BookManager READ/MVS has to search unindexed books individually, response time is slower. If you frequently add new and revised books to a bookshelf that has a search index, you may want to update the index on a regular basis.



---

## 7.0 BookManager BUILD/MVS: Preparing Your Own Online Books

Preparing online books is similar to preparing printed books. After you create the files that contain the text and artwork, you build the book instead of printing it.

---

### 7.1 Create Online Books from Source Files

Source files contain the text of the book and the markup tags that provide for formatting. To create source files, you can use the same text editor you always use with these tags or control words:

- BookMaster tags
- GML Starter Set tags

**Note:** You can also create books from SGML source documents. However, the SGML source documents must be translated into GML source documents before processing by BookManager BUILD. The SGML Translator product is required for the translation from SGML to GML.

BookManager BUILD/MVS takes the source files you use to prepare a printed copy and formats them for viewing. Because you are viewing books on a display device instead of in print, some things are formatted differently. The type of terminal you use affects how books appear on the screen. Also, some of the GML tags and SCRIPT/Virtual Storage (VS) control words work differently on a display device than they do on paper. For information on specific differences, see *IBM BookManager BUILD/MVS: Preparing Online Books*.

The next two figures show how a document looks before and after it is built into a book. The first figure shows the text of a document in a SCRIPT file with BookMaster tags. The second figure shows the online book as it appears after being built with BookManager BUILD/MVS.

```
EDIT ---- BOOKMGR.V1R3.OUR(STANDS) - 01.02 ----- COLUMNS 001 072

:h2.Simms Company Standards
:p.Simms Company has developed standards for safety, compensation,
a host of office procedures, and for all the products the company
manufactures and sells. This document contains summaries of all these
standards. Each summary gives highlights for general reading.
:h3.Safety Standards

COMMAND ==>                                SCROLL ==> PAGE
```

Figure 11. Sample Source Document

```
Books  GoTo  Search  Notes  Services  Options  Helps
-----
2.1 Simms Company Standards          (c) Copyright IBM Corp. 1989, 1991
                                     Topic lines 25 to 28 of 255
Simms Company has developed standards for safety, compensation, a host
of office procedures, and for all the products the company manufactures
and sells. This document contains summaries of all these standards.
Each summary gives highlights for general reading.

Subtopics
2.1.1 Safety Standards
2.1.2 Compensation Standards
2.1.3 Office Procedures
2.1.4 Product Standards

Command ==>                                SCROLL ==> PAGE
F1=Help   F3=Exit   F4=Unlink   F5=Notes   F6=Review   F7=Bkwd
F8=Fwd    F10=Actions F11=Retrieve F12=Cancel
```

Figure 12. Sample Built Book

---

## 7.2 Include Graphics and Images in Your Online Books

With BookManager BUILD/MVS, you can include different kinds of artwork in your online books:

- Vector Graphics
- Raster Images.

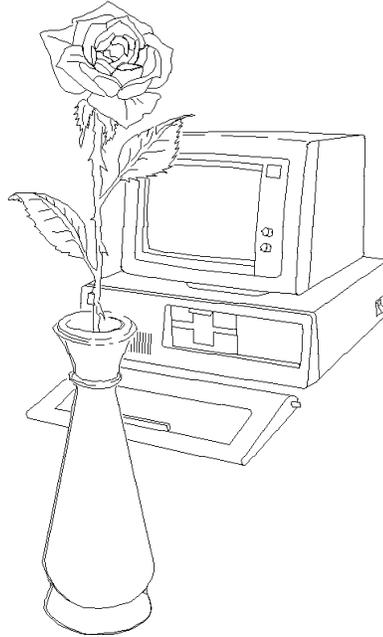
To include vector graphics or raster images in an online book, you must have the IBM Graphical Data Display Manager (GDDM\*) installed on the system where you are building the book.

## 7.2.1 Vector (Line) Graphics

Vector graphics are line drawings that you can create with tools such as:

- Computer-Augmented Design and Manufacturing (CADAM\*\*)
- Computer-Graphics Aided Three-Dimensional Interactive Application (CATIA\*\*).

The following is an example of a vector graphic.



EOX01F02

*Figure 13. Sample Vector Graphic*

BookManager BUILD/MVS can use any graphic that is in one of these formats:

- ADMGDF
- CGM
- MET or METBIN (OS/2 metafile)
- Encapsulated PostScript (EPS).

Any graphic created on a programmable workstation can be uploaded to the host and used in BookManager BUILD as long as the graphic can be converted to one of these formats.

## 7.2.2 Raster (Dot) Images

Raster images are illustrations that are created with an image editor or captured from illustrations on paper using a scanner and software such as the IBM Graphical Data Display Manager Image View Utility (GDDM-IVU).

The following is an example of a raster image.

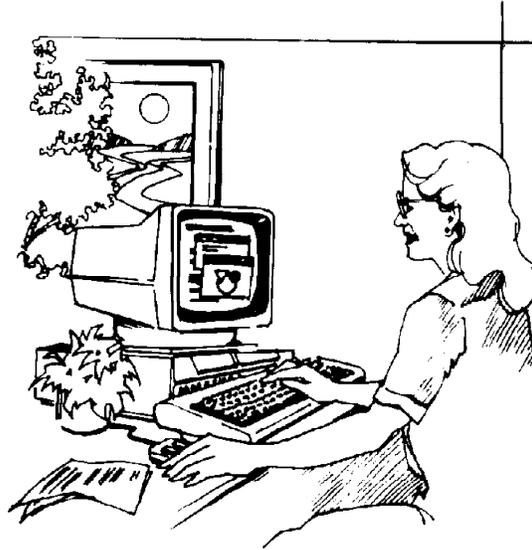


Figure 14. Sample Raster Image

BookManager BUILD/MVS can use any image that is one of these formats:

- ADMIMG
- Page segment (PSEG)
- CCITT G4.

Any image created on a programmable workstation can be uploaded to the host and used in BookManager BUILD as long as the image can be converted to one of these formats.

---

## 7.3 Create Links in and among Books

BookManager BUILD/MVS can create hypertext links. Hypertext links allow you to move from one place in a book to another or from one book to another on the same bookshelf. Links also allow you to launch or start other applications from within a book (available in selected BookManager READ platforms).

BookManager READ/MVS can use links between words in the text and their glossary definitions, message and code explanations, and programming language elements such as the syntax, defaults, and parameters of a command.

If you write printed books, you are probably familiar with cross-references to tables, figures, headings, lists, and footnotes. When you include cross-references in your online books, BookManager BUILD/MVS automatically turns them into hypertext links.

To make online information more accessible, a book's author may create additional links to associate material in one book or in a group of books. Such links can help the reader move through a book or among several books, viewing a stream of related topics. For example, the author might link all discussions on a particular subject, have all application-specific terms in a product library link to a master glossary, or have all book citations link to the start of the cited book.

A book's author may also want to create a link to start an application from within a book. One possible scenario for this link is to start a product demonstration without ever leaving the book that describes the product.

---

## 7.4 Build a Book

When you build a book, BookManager BUILD/MVS creates a data set that contains the viewable version of your document. This data set can contain both text and artwork. After the book is built, you can use the Index Utility to put it on a bookshelf and create a search index for the bookshelf, and you can use BookManager READ to display it.

### 7.4.1 BookManager BUILD Panels

BookManager BUILD panels allow you to process your input data set containing text and markup, include artwork from other data sets, and produce a data set that is a displayable book.

The following is an example of a BookManager BUILD panel. This is the **BUILD Options** panel, which is used to specify optional processing for building your book.

```
----- BUILD Options -----
Markup language . . . . . : BookMaster
Output data set for book. . : 'JOHNSON.FINMST.BOOK'

SCRIPT command name . . . . . SCRIPTVVS

TOPIC (type tag to use for lowest topic level). . . . . :H4_

TRACE level (type 1-6). . . . . 1

MSGNO tags create topics (type x to select) . . . . . _

Picture types (type 1-9 to specify search order):
ADMGDF . 2      ADMIMG . . _      CCITTG4. . _      CGM . . . . _
EPS. . . _      PSEG3820 . I      PSEG38PP . _      PSEG4250. . _
METAFILE _

To see picture defaults, press F5. To add picture data sets,
position the cursor on the picture type field and press F4.

Press ENTER to continue.

COMMAND ==>
F1=Help      F2=Split      F3=Exit      F4=Add      F5=Defaults  F6=Submit
F9=Swap      F12=Cancel
```

Figure 15. BUILD Options Panel

## 7.4.2 BUILD Options

When BookManager BUILD/MVS is installed, default BUILD options are chosen for your site. When you build a book, you can override some of these defaults and customize the build process to your needs. BookManager BUILD/MVS has options that allow you to:

- Specify the markup language used in the source data set
- Specify the format of graphic and image artwork data sets included in the book
- Replace an existing book with an updated version of the same book
- Identify the command name your site uses to invoke SCRIPT
- Specify the lowest heading level to appear as topics in the online book
- Trace the progress of the BUILD process
- Include or change some SCRIPT command options
- Create your own BUILD options data set that customizes the build process each time you build a book.

---

## 8.0 Planning for BookManager READ/MVS and BUILD/MVS

This topic helps you choose the appropriate BookManager MVS hardware and software for your organization and plan for the installation of the BookManager products.

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### 8.1 How to Choose the BookManager MVS Products for Your Organization

Here are some initial questions you can answer to help you choose the most suitable BookManager MVS product for your organization:

- Is your organization a management information systems (MIS) center, a programming group, or a technical group requiring immediate access to IBM system and application manuals?

With BookManager READ, you can manage, locate, and display online information at any time without leaving your terminal. The powerful search capability significantly reduces the time required to locate information.

- Is your organization a professional or administrative group that creates and distributes multiple copies of management instructions, financial manuals, employee benefits brochures, contracts, reports, proposals, specifications, and other similar publications?

With BookMaster and BookManager BUILD, you can create and store single documents on the host and have them accessible to all users who need them. With BookManager READ, you can access these documents at any time, without leaving your terminal. Cost savings may be significant, especially for documents that you revise frequently and distribute widely.

- Is your organization a publishing group or an information development group?

With BookManager BUILD and BookManager READ, you have the tools to create your written products online, distribute them to your readers online, and allow your readers to access them, even in other environments.

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### 8.2 How to Order BookManager

To order BookManager, contact your IBM marketing representative and ask for each program by name and program number or part number.

BookManager for MVS is available as two licensed programs:

BookManager Products for MVS	
BookManager READ/MVS	Release 3 (Program Number 5695-046)
BookManager BUILD/MVS	Release 3 (Program Number 5695-045)

The licensed program package for BookManager READ/MVS contains the following:

- Distribution tapes containing the software product
- Viewable, softcopy books of the manuals

The licensed program package for BookManager BUILD/MVS contains the following:

- Distribution tapes containing the software product
- Viewable, softcopy books of the manuals

The BookManager READ/MVS and BookManager BUILD/MVS packages contain everything you need to install and use the products. Additional copies of the BookManager READ and BUILD Release 2 printed manuals are available separately. BookManager READ and BUILD Release 3 printed manuals are not available. Contact your IBM marketing representative with the titles and order numbers.

Books built using either BookManager BUILD/MVS, BookManager BUILD/VM, or BookManager BUILD/2 can be read using any BookManager READ product. If you use the VM/ESA operating system, you can use BookManager VM to read and build books. If you use either the OS/2, DOS, AIX, or Windows operating system, BookManager provides products that let you read your online books on a programmable workstation.

Following are the order numbers for the other BookManager products:

<b>Other BookManager Products</b>	
BookManager READ/VM	Release 3 (Program Number 5684-062)
BookManager BUILD/VM	Release 3 (Program Number 5684-026)
BookManager READ/2	Version 1.2.1 (Part Number 17H7375)
BookManager READ/DOS	Version 1.2 (Part Number 17H7383)
BookManager BUILD/2	Version 1.2.1 (Part Number 53G4085)
BookManager READ for Windows	Version 2.0 (Part Number 10H7605)
BookManager READ/6000	Version 1.2 (Program Number 5765-086)

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### 8.3 How to Choose Your Online Books for BookManager

Taking the following steps will help you set up and manage your collection of online books:

1. Decide what books, both IBM's and your own, to make available online. Survey your computer users and your computer center staff to determine what books they want. Consider books and documents that are:
  - Used frequently
  - Needed by many users
  - Modified frequently
  - Hard to find.
2. Contact your IBM marketing representative, and order the IBM soft-copy manuals that you want.
3. Prepare the soft-copy versions of your own books and documents.

Anyone in your company who knows BookMaster, or GML Starter Set can create soft-copy books. In fact, you may want to encourage your users to think

of creative ways to make use of online books and information. You may want certain people in your company to become experts at creating and building online books. They will be able to help others get started and answer any questions that may arise.

4. Work with your computer center staff to organize the bookshelves and books.

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## 8.4 How Much Storage Is Required?

When planning for the installation of the BookManager products, make sure that your MVS system has enough storage for the following:

- BookManager READ/MVS program software
- BookManager BUILD/MVS program software
- The online books you want to make available
- Any other IBM products to be used with BookManager READ/MVS and BookManager BUILD/MVS.

Your system must also have the virtual storage for the licensed programs that BookManager READ and BookManager BUILD require or that you choose to use with them.

The following list summarizes the recommended storage for BookManager READ/MVS and BookManager BUILD/MVS. The total number of cylinders for each of the three listed configurations includes a 10% buffer.

- For BookManager READ/MVS, the equivalent of 105 cylinders of the IBM 3380 Direct Access Storage Device is recommended to hold the target and distribution libraries (including the linguistic dictionaries) that come on your BookManager distribution tapes. This figure includes approximately 21 cylinders for the unloaded BookManager READ/MVS dictionaries and online manuals.

**Note:** Approximately two-thirds of the recommended cylinder space is used for national language dictionaries, which may not be required at your site.

- For BookManager BUILD/MVS, the equivalent of 95 cylinders of the IBM 3380 Direct Access Storage Device is recommended to hold the target and distribution libraries (including the linguistic dictionaries) that come on the BookManager distribution tapes. This figure includes approximately 21 cylinders for the unloaded BookManager BUILD/MVS dictionaries and online manuals.

**Note:** Approximately two-thirds of the recommended cylinder space is used for national language dictionaries, some of which may not be required at your site.

- For BookManager READ/MVS and BookManager BUILD/MVS, the equivalent of 118 cylinders of the IBM 3380 Direct Access Storage Device is recommended to hold the target and distribution libraries (including the linguistic dictionaries) that come on the BookManager distribution tapes.

BookManager BUILD/MVS and BookManager READ/MVS use the same linguistic dictionaries. Therefore, if you install both BookManager BUILD/MVS and BookManager READ/MVS on your system, you need only allocate enough space for one set of linguistic dictionaries. If you are installing both products, use the instructions in the Program Directory for BookManager READ/MVS when unloading the linguistic dictionaries.

## 8.5 What Hardware and Software Are Required?

BookManager READ/MVS and BookManager BUILD/MVS are separate products that can be ordered, installed, and used separately. Their functions complement each other. In some cases, hardware or software that is required for READ/MVS may be optional for BUILD/MVS. In other cases, hardware or software that is required for BUILD/MVS may be optional for READ/MVS. The summaries in this topic will help you make cost-effective decisions when it comes to selecting hardware and software.

### 8.5.1 Summary of Required Hardware and Software

The following table summarizes and compares the hardware requirements of BookManager READ/MVS and BookManager BUILD/MVS. When ordering, use the more detailed information that is supplied in “Required Hardware and Software for BookManager READ/MVS” on page 36 and “Required Hardware and Software for BookManager BUILD/MVS” on page 38, and see the manuals for the listed products for specific information.

<b>Use these hardware products</b>	<b>With BookManager MVS</b>	
	<b>READ</b>	<b>BUILD</b>
IBM 327x Display Station or equivalent supported as an alphanumeric device by ISPF	<b>Required</b>	<b>Required</b>
IBM System/370* or System/390* processor or equivalent that supports either IBM MVS/ESA or MVS/XA operating systems	<b>Required</b>	<b>Required</b>
One of the following tape drives for installing: <ul style="list-style-type: none"><li>• A 9-track reel device such as the IBM 3400 Magnetic Tape Unit</li><li>• An 18-track cartridge device such as the IBM 3490 Magnetic Tape Subsystem</li></ul>	<b>Required</b>	<b>Required</b>
Any direct access storage device that supports your MVS operating system	<b>Required</b>	<b>Required</b>

The following table summarizes and compares the software requirements of BookManager READ/MVS and BookManager BUILD/MVS. When ordering, use the more detailed information that is supplied in “Required Hardware and Software for BookManager READ/MVS” on page 36 and “Required Hardware and Software for BookManager BUILD/MVS” on page 38, and see the manuals for the listed products for specific information.

<i>Table 2. Summary of Required Software</i>		
<b>Use these software products</b>	<b>With BookManager MVS</b>	
	<b>READ</b>	<b>BUILD</b>
An IBM MVS/ESA or MVS/XA operating system supported by your processor.	<b>Required</b>	<b>Required</b>
IBM System Modification Program/Extended (SMP/E) for MVS, Release 7 at service level 17.20 (PTF UR40251) (Program Number 5668-949)	<b>Required</b>	<b>Required</b>
IBM Interactive System Productivity Facility (ISPF), Version 3 Release 5 for MVS (Program Number 5685-054)	<b>Required</b>	<b>Required</b>
IBM Interactive System Productivity Facility/Program Development Facility (ISPF/PDF), Version 3 Release 5 for MVS (Program Number 5665-402):	<b>Required</b>	<b>Required</b>
IBM TSO Extensions (TSO/E), Version 2 Release 1 (Program Number 5685-025)	<b>Required</b>	<b>Required</b>
One of the following run-time libraries: For MVS/ESA or MVS/XA, IBM C/370 Library Version 2.1 (Program Number 5688-039) For MVS/ESA, IBM Language Environment/370 (LE/370) Release 2 with PTF UN52909 applied (Program Number 5688-198)	<b>Required</b>	<b>Required</b>
IBM Document Composition Facility (DCF), Release 4 (Program Number 5748-XX9)	<b>Optional</b>	<b>Required</b>

## 8.5.2 Required Hardware and Software for BookManager READ/MVS

The following table lists the hardware that is required for running BookManager READ/MVS.

<b>Hardware requirement</b>	<b>Ordering information</b>
Processor that supports your MVS operating system	IBM System/370 or System/390 processor or equivalent
Display device supported as an alphanumeric device by IBM ISPF	IBM 327x Display Station or equivalent
Tape drive to install the distribution tape	Either of the following: <ul style="list-style-type: none"><li>• A 9-track reel drive, such as the IBM 3400 Magnetic Tape Unit</li><li>• An 18-track cartridge device, such as the IBM 3490 Magnetic Tape Subsystem</li></ul>
Any direct access storage device that supports the MVS operating system	IBM 3380 Direct Access Storage Device or equivalent

The following table lists the software that is required for running BookManager READ/MVS.

<i>Table 4. Required Software for BookManager READ/MVS</i>	
<b>Software requirement</b>	<b>Ordering information</b>
MVS operating system	One of the following: IBM MVS/Enterprise Systems Architecture (MVS/ESA) System Product Version 4.2 or 4.3 (MVS/SP Version 4) (Program Number 5695-047 or 5695-0484) IBM MVS/Extended Architecture (MVS/XA) System Product Version 2 (MVS/SP Version 2) (Program Number 5740-XC6 or 5665-291)
Installation program	IBM System Modification Program Extended (SMP/E) for MVS, Release 7 at service level 17.20 (PTF UR40251) (Program Number 5668-949)
Productivity software	IBM Interactive System Productivity Facility (ISPF), Version 3 Release 5 (Program Number 5685-054)
Application development software	IBM Interactive System Productivity Facility/Program Development Facility (ISPF/PDF), Version 3 Release 5 (Program Number 5665-402)
Interactive time sharing for remote terminals	IBM TSO Extensions (TSO/E), Version 2.1 (Program Number 5685-025)
Run-time library	One of the following run-time libraries: For MVS/ESA or MVS/XA, IBM C/370 Library Version 2.1 (Program Number 5688-039) For MVS/ESA, IBM LE/370 Release 2 with PTF UN52909 applied (Program Number 5688-198)

### 8.5.3 Required Hardware and Software for BookManager BUILD/MVS

The following table lists the hardware that is required for running BookManager BUILD/MVS.

<b>Hardware requirement</b>	<b>Ordering information</b>
Processor that supports your MVS operating system	IBM System/370 or System/390 processor or equivalent
Display device supported by your operating system	IBM 327x Display Station
Tape drive to install the distribution tape	Either of the following: <ul style="list-style-type: none"><li>• A 9-track tape drive, such as the IBM 3420 Magnetic Tape Unit</li><li>• An 18-track cartridge device, such as the IBM 3490 Magnetic Tape Subsystem</li></ul>
Any direct access storage device that supports the IBM MVS operating system	IBM 3380 Direct Access Storage or equivalent

The following table lists the software that is required for running BookManager BUILD/MVS.

<i>Table 6. Required Software for BookManager BUILD/MVS</i>	
<b>Software Requirement</b>	<b>Ordering Information</b>
MVS operating system	One of the following: IBM MVS/Enterprise Systems Architecture (MVS/ESA) System Product Version 4.2 or 4.3 (MVS/SP Version 4) (Program Number 5695-047 or 5695-0484) IBM MVS/Extended Architecture (MVS/XA) System Product Version 2 (MVS/SP Version 2) (Program Number 5740-XC6 or 5665-291)
Installation program	IBM System Modification Program Extended (SMP/E) for MVS, Release 7 at service level 17.20 (PTF UR40251) (Program Number 5668-949)
Formatting facility for online books	IBM Document Composition Facility (DCF), Release 4 (Program Number 5748-XX9)
Productivity software	IBM Interactive System Productivity Facility (ISPF), Version 3 Release 5 (Program Number 5685-054)
Editor for source files of online books	IBM Interactive System Productivity Facility/Program Development Facility (ISPF/PDF) Version 3 Release 5 (Program Number 5665-402)
Interactive time sharing for remote terminals	IBM TSO Extensions (TSO/E), Version 2.1 (Program Number 5685-025)
Run-time library	One of the following run-time libraries: For MVS/ESA or MVS/XA, IBM C/370 Library Version 2.1 (Program Number 5688-039) For MVS/ESA, IBM LE/370 Release 2 with PTF UN52909 applied (Program Number 5688-198)

## 8.6 What Hardware and Software Are Optional?

You can use optional hardware and software with both BookManager MVS programs to achieve additional functions.

### 8.6.1 Optional Hardware and Software for BookManager READ/MVS

You may already have other optional hardware and software that will help you view, edit, and print online books with BookManager READ/MVS or print entire books with BookMaster. The following table lists some optional hardware and software that can help you get the most from BookManager READ/MVS.

<b>If you have this</b>	<b>You can do this</b>
Any printer supported by the MVS operating system	Print portions of text only (not graphics) from the viewable version of any online book
IBM Graphical Data Display Manager for MVS (GDDM/MVS), Version 3 (Program Number 5695-167) and a display device, such as an IBM 3279 Color Display Station Model S3G, that is supported as a graphic device by GDDM/MVS	View graphics in online books
Both of the following: <ul style="list-style-type: none"><li>• IBM Document Composition Facility (DCF), Release 4 (Program Number 5748-XX9)</li><li>• Any printer that is supported by DCF</li></ul>	Use DCF to print text from the viewable version of any online book or to print pictures that were generated with GDDM
IBM Host Publishing Systems BookMaster, Release 4 (PTF level UN62033) (Program Number 5688-015)	Print topics and pictures using BookMaster tags and symbols
IBM Publishing Systems ProcessMaster MVS Edition, Release 1.1 (Program Number 5685-055)	Store and manage SCRIPT source files
IBM Standard Generalized Markup Language (SGML) Translator Release 3 (Program Number 5684-025)	Translate SGML documents into DCF markup text

## 8.6.2 Optional Hardware and Software for BookManager BUILD/MVS

You may already have other hardware and software that can help you create source files for BookManager BUILD/MVS. The following table lists some optional hardware and software that can help you get the most from BookManager BUILD/MVS.

*Table 8. Optional Hardware and Software for BookManager BUILD/MVS*

<b>If you have this</b>	<b>You can do this</b>
A display device that GDDM/MVS supports as a graphics device; for example, the IBM 3279 Color Display Station Model S3G	Edit images or create certain vector graphics
IBM Graphical Data Display Manager for MVS (GDDM/MVS), Version 3 (Program Number 5695-167)	Both of the following: <ul style="list-style-type: none"> <li>• Create graphics in ADMGDF format and include them in your online books</li> <li>• Create ADMIMG or PSEG images and include them in your online books</li> </ul>
IBM PostScript Interpreter for Advanced Function Printing, Release 3 (Program Number 5688-104)	Include graphics in encapsulated PostScript format in your online books
IBM Host Publishing Systems BookMaster, Release 4 (PTF level UN62033) (Program Number 5688-015)	Build books using source files marked up with BookMaster tags
IBM Publishing Systems ProcessMaster MVS Edition, Release 1.1 (Program Number 5685-055)	Store and manage SCRIPT source files
IBM Standard Generalized Markup Language (SGML) Translator Release 3 (Program Number 5684-025)	Translate SGML documents into DCF markup text

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## 8.7 What Other Products Can You Use?

You can use other products that may offer useful services when used with the BookManager MVS programs.

### 8.7.1 Other Products You Can Use with BookManager READ/MVS

The following table lists other products that offer benefits when used with BookManager READ/MVS.

<i>Table 9. Other Products You Can Use with BookManager READ/MVS</i>	
<b>If you have this</b>	<b>You can do this</b>
IBM BookManager BUILD/MVS, Release 3 (Program Number 5695-045)	Create your own online books on the MVS operating system
IBM BookManager BUILD/VM, Release 3 (Program Number 5684-026)	Create your own online books in an IBM VM/SP operating environment and provide these books to users of BookManager READ/MVS
IBM BookManager BUILD/2, Version 1.2 (Program Number 53G4085)	Create your own online books in an OS/2 operating environment and provide these books to users of BookManager READ/MVS

## 8.7.2 Other Products You Can Use with BookManager BUILD/MVS

The following table lists other hardware and software that offer benefits when used with BookManager BUILD/MVS.

*Table 10. Other Products You Can Use with BookManager BUILD/MVS*

If you have this	You can do this
IBM Publishing Systems ProcessMaster Release 1.1 (Program Number 5685-055)	Store and manage SCRIPT source files
Both of the following: <ul style="list-style-type: none"> <li>• IBM Graphical Data Display Manager Image View Utility (GDDM-IVU), Version 2, Release 2 (Program Number 5668-723)</li> <li>• A scanner; for example, the IBM 3118 Scanner</li> </ul>	Scan images from paper into soft-copy format and prepare or edit them online
Both of the following: <ul style="list-style-type: none"> <li>• IBM Graphical Display and Query Facility (GDQF), Version 2.2 (Program Number 5668-905)</li> <li>• A terminal supported as a graphics device</li> </ul>	Convert graphics in CADAM or CATIA formats to ADMGDF format
One or more of the following: <ul style="list-style-type: none"> <li>• IBM BookManager READ/MVS, Release 3 (Program Number 5695-046)</li> <li>• IBM BookManager READ/VM, Release 3 (Program Number 5684-062)</li> <li>• IBM BookManager READ/DOS, Version 1.2 (Program Number 5601-453)</li> <li>• IBM BookManager READ/2, Version 1.2.1 (Program Number 5601-454)</li> <li>• IBM BookManager READ/6000, Version 1.2 (Program Number 5765-086)</li> <li>• IBM BookManager READ for Windows Version 2 (Program Number 5621-262)</li> </ul>	Read online books in an MVS, VM, DOS, OS/2, AIX, or Windows environment



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## Glossary of Terms and Abbreviations

This glossary defines all new terms and abbreviations used in this manual. If you do not find the term you are looking for, refer to the index or to the *IBM Dictionary of Computing*, SC20-1699.

This glossary includes terms and definitions from:

- The *American National Dictionary for Information Processing Systems*, copyright 1982 by the Computer and Business Equipment Manufacturers Association (CBEMA). Copies may be purchased from the American National Standards Institute, 1430 Broadway, New York, New York 10018. Definitions are identified by the symbol (A) after the definition.
- The *Information Technology Vocabulary*, developed by Subcommittee 1, Joint Technical Committee 1, of the International Organization for Standardization and the International Electrotechnical Committee (ISO/IEC JTC1/SC1). Definitions of published sections of the vocabularies are identified by the symbol (I) after the definition; definitions from draft international standards, draft proposals, and working papers in development by the ISO/IEC JTC1/SC1 vocabulary subcommittee are identified by the symbol (T) after the definition, indicating final agreement has not yet been reached among participating members.
- The *Military Specification MIL-STD-1840A: Automated Interchange of Technical Information*. Definitions are identified by the symbol (M) after the definition.

### A

**action.** A defined task that BookManager READ performs. A user can request an action to be performed by selecting the action name from an action bar or in a pull-down or window, pressing a function key, or entering a command.

**action bar.** The area at the top of a panel containing keywords that give a user access to actions available on that panel. For example, when a user selects Help on the action bar, the Help pull-down is displayed. See also *pull-down* and *window*.

**action bar pull-down.** See *pull-down*.

**ADMGDF.** A standard format used by GDDM to store a graphic picture.

**ADMIMG.** A standard format used by GDDM to store an image picture.

**advanced function printer.** A printer that supports IBM's advanced function printing family of software products. Examples include the IBM 3800 Printing Subsystem Model 3, IBM 3812, 3820, and 3827 Page Printers, and IBM 4250 Printer.

**alphanumeric display device.** Synonym for *character display device*.

**artwork.** Nontext material such as images or graphics. See also *picture*. Contrast with *character graphics*.

**author.** The originator of an item such as a document, a data set, or an application.

### B

**backward.** A scrolling action that moves information that is above the currently visible information downward into the viewing area. Contrast with *forward*.

**best search match.** A book or book part containing information that most closely matches the words specified in a search request. See *search ranking*. See also *best topic*.

**best topic.** A topic containing the best search matches in a book. See *search ranking*. See also *best search match*.

**book.** (1) A publication or other written material; a document. (2) A soft-copy document, created by BookManager BUILD, that can be viewed and searched at a display device with BookManager READ.

**book description.** In BookManager READ, a window that provides information about a book without the user needing to open the book. It is similar in format and content to a library catalog card, and provides information such as title, author, publication date, and document number of a book.

**book list.** (1) A list of books on a bookshelf. (2) A list of books that the Index utility uses to create a bookshelf and a bookshelf search index.

**BookManager.** A family of IBM licensed programs that lets users create and display online books.

**BookManager BUILD/MVS.** An IBM licensed program that lets users create online books on an MVS host system from source files (called data sets) formatted using DCF.

**BookManager BUILD/VM.** An IBM licensed program that lets users create online books on a VM host system from source files formatted using DCF.

**BookManager READ/DOS.** An IBM licensed program that lets users display, search, organize, and annotate online books built on a VM or MVS host system using a programmable workstation running the DOS operating system.

**BookManager READ/MVS.** An IBM licensed program that lets users on an MVS host system display, search, organize, and annotate online books built with BookManager BUILD/MVS or BookManager BUILD/VM.

**BookManager READ/VM.** An IBM licensed program that lets users on a VM host system display, search, organize, and annotate online books built with BookManager BUILD/VM or BookManager BUILD/MVS.

**BookManager READ/2.** An IBM licensed program that lets users display, search, and annotate online books built on a VM or MVS host system using a programmable workstation running the OS/2 operating system.

**bookmark.** An indicator that temporarily holds a user's place in a book until the book is closed.

**BookMaster.** An IBM licensed program consisting of a generalized markup language that is more extensive than the GML Starter Set. Its full name is IBM Host Publishing Systems BookMaster.

**bookshelf.** (1) A logical grouping of online books that allows users to organize their online books according to how they intend to use them. (2) A data set containing the definition of a bookshelf.

**bookshelf description.** In BookManager READ, a window that provides the description of a bookshelf, which includes data set name, date last updated, number of books, synonym language, number of unindexed books, and search index name.

**bookshelf list.** A list of bookshelves with similar data set names or a list of all of the bookshelves that a user can access.

**bookshelf search index.** (1) A comprehensive index, created with the Index utility, based on the information in all the books on a bookshelf. A bookshelf search index allows for a rapid search of all the books on a bookshelf. (2) A data set containing the search index for a bookshelf. It has a data set name of the bookshelf or the book list, or a name the user specifies.

**build a book.** To use BookManager BUILD to create an online book from source files formatted using DCF. Source files can include files containing only text or files containing text and generalized markup language tags.

## C

**CADAM.** Computer-Augmented Design and Manufacturing. CADAM is a trademark of CADAM Incorporated.

**cartridge.** A storage device that consists of magnetic tape, on supply and take-up reels, in a protective housing.

**CATIA.** Computer-Graphics Aided Three-Dimensional Interactive Application. CATIA is a trademark of Dassault Systèmes.

**CCITT.** Comité Consultatif International Télégraphique et Téléphonique. The International Telegraph and Telephone Consultative Committee.

**CCITT G4.** A format recommended by CCITT for standard representation of raster images. It is the format for images in CALS documents.

**CGM.** Computer graphics metafile.

**character display device.** (1) A display device that gives a representation of data only in the form of characters. (1) (A) (2) Synonymous with *alphanumeric display device*. Contrast with *graphics device*.

**character graphics.** Graphics that are composed of characters in a monospaced font. Character graphics appear inline with the text of an online book. See *graphic*. Contrast with *artwork* and *picture*.

**CHARGE.** A ProcessMaster program for drawing simple diagrams using character graphics. Its full name is IBM Publishing Systems ProcessMaster character graphics editor.

**choice.** An item that a user can select. A choice can appear in a selection list, on an action bar, in a pull-down, or in a window.

**command.** A request to execute a particular program or function. The user types a command on the command line and then presses the ENTER key.

**command line.** On a display screen, a line on which commands can be entered.

**Computer-Augmented Design and Manufacturing (CADAM).** An interactive graphics program used for two-dimensional design and drafting.

**Computer-Graphics Aided Three-Dimensional Interactive Application (CATIA).** An interactive graphics program used for three-dimensional design and drafting.

**computer graphics metafile (CGM).** (1) A file for the storage and transfer of picture description information. (2) Standard for the description, storage, and communication of graphical information in a device-independent manner. (M)

**contents.** See *table of contents*.

**control word.** An instruction within a document that identifies its parts or indicates how to format the document.

**convert.** (1) To change the representation of data from one form to another, without changing the information the data convey. (2) See also *copy*.

**copy.** (1) To create and store a duplicate of information from an online book in a data set. (2) To create and store a duplicate of a bookshelf by giving it a different data set name.

**cursor.** A visual cue that shows where the next operation will occur on a display screen.

**customize.** To change system or document characteristics to meet user or site requirements.

**cylinder.** A term used to describe specific space on disk devices.

**C/370 Compiler.** The IBM Systems Application Architecture\* C language compiler for the IBM System/370. IBM C/370 is a general-purpose, high-function programming language.

## D

**DASD.** Direct access storage device.

**Data Export Program.** See *Interleaf Publisher Data Export Program* or *Interleaf Publishing Series RT Data Export Program*.

**data set.** A unit of information that can be stored and retrieved. See *partitioned data set* and *sequential data set*.

**data set name.** A unique name that identifies each data set. It consists of one or more parts separated by periods, and has a maximum length of 44 characters, including the periods. See *qualified name* and *qualifier*.

**date built.** The date an online book was built or a bookshelf was created.

**DCF.** Document Composition Facility.

**default.** A value used by the system when no other value is specified. This value can be set by the system beforehand and can be overridden by a user, or chosen

by the system after the user has declined the opportunity to enter or select one.

**deselect.** To unmark a selected item in a list by removing the slash (/) next to the item. Contrast with *mark* and *select*.

**dialog.** The interaction between a user and a computer.

**direct access storage device (DASD).** A device in which access time is effectively independent of the location of the data.

**Disk Operating System (DOS).** An IBM licensed program that interacts with the processor in the system unit and the fixed-disk or diskette drives of the workstation to control the flow of data.

**display device.** A device that presents information on a screen. See also *screen*.

**distribution tape.** A magnetic tape that contains, for example, the BookManager BUILD/MVS program. This tape is shipped to the customer for program installation.

**document.** In word processing, a collection of information that pertains to a particular subject or related subjects.

**Document Composition Facility (DCF).** A text-processing program; its main component is the text formatter called SCRIPT/VS. The composed DCF output can be directed to a variety of output devices, including advanced function printers and PostScript printers. See also *SCRIPT/VS*.

**DOS.** Disk Operating System.

**download.** To send information from a computer to an attached workstation. Contrast with *upload*.

## E

**edit.** (1) To alter or refine information, especially text and illustrations, for publication or display. (2) To use the ISPF/PDF editor to make changes to a topic's source file while looking at an online book.

**editor.** A person or program that edits.

**emphasize matches.** To display the location of search matches in a different color or intensity from normal text.

**emulation.** The use of a data processing system to imitate another data processing system, so that the imitating system accepts the same data, executes the same programs, and achieves the same results as the imitated system. Emulation is usually achieved by

means of hardware or firmware. (T) See 3270 *emulation*.

**encapsulated PostScript (EPS).** Any file produced by text or graphics applications that support the PostScript page description language. Encapsulated PostScript can be included in a BookMaster document by means of the :ARTWORK tag. PostScript is a trademark of Adobe Systems Incorporated. See also *PostScript* and *PostScript Interpreter for Advanced Function Printing*.

**enter.** To submit all selected choices and entry-field information to the computer for processing; for example, to type information on a keyboard and press the ENTER key.

**EPS.** A format for encapsulated PostScript files. See also *encapsulated PostScript*.

**exact matching, any case.** A type of search request where text that matches the request must be the same as the word or phrase entered, except for case. Contrast with *exact matching, including case* and *fuzzy matching*.

**exact matching, including case.** A type of search request where text that matches the request must be the same as the word or phrase entered, including case. Contrast with *exact matching, any case* and *fuzzy matching*.

**exit.** (1) To end the current BookManager READ session. (2) To close the currently displayed book, bookshelf, or bookshelf list.

**extended color.** The ability of a device to display text in more than four basic colors.

## F

**field.** A group of character positions used to enter or display specific information.

**format.** In text processing, the predetermined arrangement or layout of text in printed or displayed form or on a data medium. (T)

**forward.** A scrolling action that moves information that is below the currently visible information upward into the viewing area. Contrast with *backward*.

**fully qualified name.** The complete MVS data set name. A fully qualified name is usually enclosed in quotes. See *qualified name*.

**function key.** A key that can be used to represent a command or series of commands. Keyboards can have 12 or 24 function keys (sometimes called program function keys).

**fuzzy matching.** A type of search request where text that matches the request can be different forms of the same root word. For example, a fuzzy search for the word *computer* would match the words *computing* and *computers*. Contrast with *exact matching, any case* and *exact matching, including case*.

## G

**GDDM.** Graphical Data Display Manager.

**GDDM-IVU.** Graphical Data Display Manager Image View Utility.

**GDQF.** Graphical Display and Query Facility.

**generalized markup language (GML).** A language that can be used to identify the parts of a source document without respect to a particular processing system.

**Generalized Markup Language (GML) Starter Set.** A generalized markup language application provided as part of DCF.

**GML.** Generalized markup language.

**GML Starter Set.** See *Generalized Markup Language Starter Set*.

**GoTo.** An action bar choice that allows a user to go to a particular topic or book part, display a list of saved or revised topics or a list of topics previously seen, retrace a topic path, or return to a topic after selecting a hypertext link.

**graphic.** Pertaining to pictorial material or the output of graphics software, in contrast to text. Character graphics appear with the text of an online book. Complex (vector) graphics are displayed by selecting the picture indicator or entering the PICTURE command. See *character graphics* and *vector graphics*. See also *artwork* and *picture*. Contrast with *image* and *text*.

**Graphical Data Display Manager (GDDM).** An IBM licensed program that lets users display graphic, image, and text information on a display device.

**Graphical Data Display Manager Image View Utility (GDDM-IVU).** An IBM licensed program that lets users create and edit image data.

**Graphical Display and Query Facility (GDQF).** An IBM licensed program that lets users edit and manipulate graphic data.

**graphics device.** A display device that gives a representation of data in the form of graphic symbols. Contrast with *character display device*.

## H

**hard copy.** Printed copies of books, manuals, or other information. Contrast with *soft copy*.

**heading.** Words indicating the beginning of a new topic or section.

**Help.** An action bar choice that allows a user to get help on using BookManager READ, such as getting help on function keys.

**highlighting.** Highlighting is associated with document markup. Highlighting in online books is expressed using underscoring, blinking, and reverse video. Highlighting in print is expressed using italics, underscoring, uppercase, bold type, color, and type style.

**hypertext link.** A way to link information within a book or between books for easy navigation. The link is a pointer from a location in an online book to another location in the same book or in another book on the same bookshelf. When selected, it lets a user move to the new location containing related information. BookManager associates terms with related information such as the glossary, a message or code, an index entry, or a language element reference. Cross-references indicated by markup are automatically linked to the referenced location. Authors can also provide links in online books to point the user to additional information.

## I

**image.** In GDDM, a picture made up of points that are either black or white. Images are displayed by selecting the picture indicator or entering the PICTURE command. See *raster*. Contrast with *graphic* and *text*.

**index.** An alphabetical list of the subjects in a book and the topics in which they are found.

**Index utility.** A utility of BookManager BUILD/MVS, BookManager BUILD/VM, BookManager READ/MVS, and BookManager READ/VM that creates a bookshelf and a search index of all the information in the books on a bookshelf.

**installation.** In system development, preparing and placing a functional unit in position for use. (T)

**interactive.** (1) Pertaining to the exchange of information between a user and a computer. (2) Pertaining to a program or system that alternately accepts input and then responds. An interactive system is conversational, that is, a continuous dialog that exists between the user and the system.

**Interactive System Productivity Facility (ISPF).** An IBM licensed program that serves as a dialog manager for interactive applications in several host computer environments.

**Interactive System Productivity Facility/Program Development Facility (ISPF/PDF).** A dialog application that provides application development services. It is used to create and maintain interactive applications and other types of data, and includes library control facilities accessible from 3270 display terminals.

**ISPF.** Interactive System Productivity Facility.

**ISPF/PDF.** See *Interactive System Productivity Facility/Program Development Facility*.

**ISPF/PDF editor.** The text editor provided as part of ISPF/PDF.

## J

**JES.** Job entry subsystem.

**JES2.** An MVS subsystem that receives jobs into the system, converts them to internal format, selects them for execution, processes their output, and purges them from the system. In an installation with more than one processor, each JES2 processor independently controls its job input, scheduling, and output processing. See also *JES3*.

**JES3.** An MVS subsystem that receives jobs into the system, converts them to internal format, selects them for execution, processes their output, and purges them from the system. In complexes that have several loosely-coupled processing units, the JES3 program manages processors so that the global processor exercises centralized control over the local processors and distributes jobs to them via a common job queue. See also *JES2*.

**job entry subsystem (JES).** A system facility for spooling, job queuing, and managing input and output. See also *JES2* and *JES3*.

## L

**language element reference.** The section of a document that describes the data elements of programming languages, such as statements, macros, or commands. This section begins with an :LERS tag. A user can link to a language element reference from a location in the same or another book.

**line note.** A margin note created by a user and associated with a specific line of text. Contrast with *topic note*.

**linguistic dictionary.** A tool used to compile a list of words, word roots, and variant forms of words. This list, which is stored in an online book, provides a user with the most meaningful and complete list of matches that meet a fuzzy match search request. A linguistic dictionary also lets a user find synonyms for selected search request words. For example, a search for the word *formats* would match the words *format*, *formatting*, *formatted*, and, if selected, its synonym *layout*.

**link.** See *hypertext link*.

**links or references.** Cross-references or links created by a book's author. Users can use color or highlighting to make the location of links and references stand out from normal text.

## M

### **management information system (MIS).**

Management performed with the aid of automatic data processing. (I) (A)

**margin.** A generally unprinted area that lies between the text area of a page or screen and the edge of the page or screen. Margins may contain small illustrations, notes, and page numbers. A rectangular page or screen therefore has four margins. (T)

**margin note.** See *note*.

**mark.** To select an item in a list by placing a slash (/) next to the item. See also *select*. Contrast with *deselect*.

**mark up.** To insert markup into a source document.

**markup.** Information added to a document to enable a person or system to process it. Markup information can describe the document's characteristics, or it can specify the actual processing to be performed; for example, in SCRIPT/VS, markup consists of GML tags, attribute labels and values, and control words.

**markup language.** A language used to define information to be added to the content of a document as an aid to processing it. (T) See also *BookMaster* and *Standard Generalized Markup Language*.

**match.** A word or phrase that is identical or similar to a search word or phrase.

**member.** One of the files in a partitioned data set. See also *partitioned data set*.

**message.** Information presented to a user that is generated by a computer.

**message area.** The area on a panel or in a window in which BookManager displays messages to a user.

**MIS.** Management information system.

**Multiple Virtual Storage.** See *MVS*.

**Multiple Virtual Storage/Enterprise Systems Architecture.** See *MVS/ESA*.

**Multiple Virtual Storage/Extended Architecture.** See *MVS/XA*.

**MVS.** Multiple Virtual Storage, consisting of MVS/System Product and the MVS/370 Data Facility Product operating on a System/370 processor. MVS is an operating system for S/370 processors, and it supports multiple address spaces. See also *MVS/DFP*, *MVS/ESA*, *MVS/SP*, and *MVS/XA*.

**MVS/DFP.** Multiple Virtual Storage/Data Facility Product. A version of this IBM licensed program is required to have an operational MVS system.

**MVS/ESA.** Multiple Virtual Storage/Enterprise Systems Architecture, which offers all the capabilities of MVS/XA and in addition enhanced data-handling capabilities, increased addressability, faster data access, enhanced services for application development, and improved reliability and serviceability.

**MVS/SP.** Multiple Virtual Storage/System Product.

**MVS/XA.** Multiple Virtual Storage/Extended Architecture, consisting of MVS/System Product Version 2 and the MVS/XA Data Facility Product. MVS/XA is an operating system for S/370 processors.

## N

**note.** Additional information or comments that a user attaches to a topic or a line of text in a book. See *line note* and *topic note*, and *personal note* and *public note*.

## O

**online.** Connected to, served by, or available through a system or computer.

**online book.** A soft-copy document, created by BookManager BUILD, that can be viewed and searched at a display device with BookManager READ.

**online information.** Information stored in a computer system that can be displayed, used, and modified in an interactive manner without any need to obtain hard copy.

**operating system.** An organized collection of programs that controls the overall operation of a computer.

**Operating System/2 (OS/2).** An advanced IBM operating system for the IBM Personal System/2.

**option.** A specification in a statement that may be used to influence the execution of the statement.

**OS/2.** Operating System/2.

## P

**page segment (PSEG).** A data-stream object containing images and possibly text; the object can be included when a document is formatted for viewing or printing. As an addressable point on a page or electronic overlay, it assumes the environment of an object in which it is included.

**panel.** An arrangement of information that fits on a screen and allows a user to interact with a program. If some of the information is not visible, a user can scroll through the information.

**partitioned data set (PDS).** A data set in direct access storage that is divided into partitions, called members, each of which can contain a program, part of a program, text, or data. Synonymous with *program library*. See also *member*.

**PDF.** Program Development Facility

**personal note.** A private note created by a user. See *public note*.

**picture.** A visual representation of graphics or images on a display device. See also *artwork*. Contrast with *character graphics*.

**picture identifier.** Either the number or name of a picture (graphic or image artwork) in a book.

**PostScript.** A programming language that creates graphics for device-independent printing. PostScript is a trademark of Adobe Systems Incorporated. See *encapsulated PostScript*.

**PostScript Interpreter for Advanced Function Printing.** An IBM licensed program that lets users create and print PostScript documents on IBM advanced function printing (AFP) devices. PostScript is a trademark of Adobe Systems Incorporated. See *encapsulated PostScript*.

**Primary Option Menu.** The ISPF/PDF menu from which BookManager can be selected.

**ProcessMaster.** An IBM licensed program that provides a set of menus to help a user create, manage,

and process document source files. Its full name is IBM Publishing Systems ProcessMaster.

**print.** To produce legible characters or other marks on paper or other media.

**processor.** (1) In a computer, a functional unit that interprets and executes instructions. A processor consists of at least an instruction control unit and an arithmetic and logic unit. (T) (2) The functional unit that interprets and executes instructions.

**Program Development Facility.** See *Interactive System Productivity Facility/Program Development Facility*.

**program library.** (1) An organized collection of computer programs, or parts of computer programs, and possibly information pertaining to their use. A program library is often called according to the characteristic of its elements; for example, a procedure library, a source program library. (T) (2) Synonym for *partitioned data set*.

**programmable workstation.** A workstation that has some degree of processing capability and that allows a user to change its functions.

**prompt.** A symbol or action that requests a user entry or selection.

**PSEG.** (1) Page segment. (2) The IBM advanced function printer data format for raster images.

**PS/2.** Personal System/2.

**public note.** A topic or line note, usually created by the book's owner, that can be shared with others. See *personal note*.

**pull-down.** An extension of an action bar that appears when a user selects a choice on the action bar. A pull-down displays a list of choices. See also *action bar* and *window*.

## Q

**qualified name.** The lower levels of a data set name. The actual data set name is prefixed by one or more qualifiers. Usually the qualifiers are the user's TSO PROFILE prefix or the user's TSO user ID. See also *data set name* and *qualifier*.

**qualifier.** The 1 to 8 characters of a data set name between two periods, or at the front or end of a data set name. See also *data set name* and *qualified name*.

## R

**RACF.** Resource Access Control Facility.

**ranking.** See *search ranking*.

**raster.** The closely spaced, parallel lines produced on a display device. An image is formed by modulating the intensity of the individual pixels. A binary representation of the pixels can be used to digitally represent an image. (M) See *image*. Contrast with *character graphics* and *vector graphics*.

**Resource Access Control Facility (RACF).** An IBM licensed program that provides for access control by identifying and verifying users to the system, authorizing access to protected resources, logging the detected unauthorized attempts to enter the system, and logging the detected accesses to protected data sets.

**revisions.** Changes an author has made to a book. They may be marked with revision codes. Users can move through a book looking at only those topics that have been changed or added to the book.

## S

**save.** (1) To hold a user's place in an online book. (2) To copy data to permanent storage so that it is not destroyed.

**scan.** Using a scanner device to convert a paper picture to computer image form.

**scanner.** A device that produces a computer image from a picture on a piece of paper.

**screen.** The physical surface of a display device upon which information is shown to a user. See also *panel* and *window*.

**SCRIPT.** See *SCRIPT/VS*.

**SCRIPT/VS.** The formatting component of the Document Composition Facility. It provides capabilities for text formatting and document management, macro processing and symbol substitution, and GML tag recognition and processing. See also *Document Composition Facility*.

**scroll.** To move a display image vertically or horizontally to view data that is not otherwise visible in a display screen or in a window.

**search index.** See *bookshelf search index*.

**search ranking.** The method BookManager READ uses to organize search matches. For a single book search, the topics with the best matching information

are ranked highest. For a bookshelf search, the books with the best matching information are ranked highest.

**search request.** The words and phrases you want BookManager READ to find in a book or bookshelf. A single search request can include any combination of words and phrases as long as the complete request does not exceed 44 characters.

**search words and phrases.** The words and phrases to be located in a book or bookshelf during a search.

**select.** (1) To make a choice by using the cursor movement keys or tab key to position the cursor on the choice and pressing the ENTER key. (2) To make a choice by typing the number associated with that choice and pressing ENTER. (3) To make a choice by marking a book, bookshelf, or listed item with a slash (/) before choosing the action you want to perform.

**send.** To distribute a book, bookshelf, or note member to another user.

**sequential data set.** A data set in which records are organized on the basis of their successive physical positions.

**session.** The period of time that begins when a user starts a program and ends when a user ends the program.

**SGML.** Standard Generalized Markup Language.

**SGML Translator.** An IBM licensed program that processes SGML documents so that they can be formatted by DCF.

**SMP/E.** System Modification Program/Extended.

**soft copy.** One or more data sets that can be electronically distributed, manipulated, and printed by a user. Contrast with *hard copy*.

**sort.** To arrange a set of items to be used in a specified sequence, such as alphabetic or numeric.

**source file.** In BookManager BUILD, an input file that contains either text and markup or artwork. Source files are used to create online books or to print documents.

**Split.** An action that divides the screen into two logical ISPF sessions. See also *split screen* and *Swap*.

**split screen.** The facility for dividing a display into two or more independent areas. (T) See also *Split*.

**SSGML.** See *Generalized Markup Language Starter Set*.

**Standard Generalized Markup Language (SGML).** (1) A set of rules that allow the formal specification of a

markup language independent of any individual processing system. (2) An international standard for representing the elements and structure of electronically stored information so that a person or computer program can understand and use those elements and that structure.

**status line.** The area near the top of a panel that contains information about what is being displayed. For example, it can show the number of books in a list or how far into a book the user is (the position in the book).

**subtopic.** A topic that is subordinate to a higher level topic. For example, 2.1 and 2.2 are subtopics of topic 2.0.

**subtopic list.** A list of the topic subheadings that follow the topic being displayed. It is similar to a printed partial table of contents. Contrast with *table of contents*.

**Swap.** An action that toggles between displays of two logical ISPF sessions. See also *Split*.

**synonym.** (1) A word that has essentially the same meaning as another word so that the words can be used interchangeably. For example, *job* is a synonym of *work*. (2) A shorter version of a command allowed by a program.

**syntax.** The rules governing the structure of commands and their parameters.

**System Modification Program/Extended (SMP/E).** An IBM licensed program that provides enhanced system enabling and change management capability, improved product usability, and improved product reliability, availability, and serviceability (RAS) in the MVS/370, MVS/XA, and VS1 system environments.

## T

**table.** Information presented in rows and columns and defined by the author as a table.

**table of contents.** A list of topics in the order in which they appear in a book.

**tag.** In markup, a name for a document type or document element that is entered in the source document to identify it. For example, :P is the GML Starter Set tag for a paragraph.

**temporary bookmark.** See *bookmark*.

**terminal.** A device, usually equipped with a keyboard and display, capable of sending and receiving information.

**terminal emulator.** A program that allows a device such as a microcomputer or personal computer to enter and receive data from a computer system as if it were a particular type of attached terminal. See also *download*.

**text.** A graphic representation of information on an output medium. Text can consist of alphanumeric characters and symbols arranged in paragraphs, tables, columns, or other shapes. Contrast with *graphic* and *image*.

**text editor.** A program used to create, modify, and print or display text data sets.

**time sharing option (TSO).** An option on the operating system; for System/370, the option provides interactive time sharing from remote terminals. See also *TSO command language*.

**Time Sharing Option Extensions (TSO/E).** An IBM licensed program that runs under the MVS operating system, allowing users to interactively share computer time and resources and improving productivity and usability.

**topic.** A heading and its subsequent text up to the next heading or subheading; BookManager's basic unit of information.

**topic identifier.** Either the number or name of a topic (section) in a book. See *topic name* and *topic number*.

**topic name.** Within an online book, the unique identifier of a particular topic, such as INDEX or BIBLIOGRAPHY. It lets users go directly to a particular place in a book. See also *topic number*.

**topic note.** A margin note created by a user and associated with a specific topic in a book. Contrast with *line note*.

**topic number.** Within an online book, the unique identifier of a particular topic, such as 1.0 or 2.1.2. It lets users go directly to a particular place in a book. See also *topic name*.

**translator.** A computer program that can translate. (T)

**TSO.** Time sharing option.

**TSO command language.** The set of commands, subcommands, and operands recognized under the time sharing option. See also *time sharing option*.

**TSO/E.** Time Sharing Option Extensions.

## U

**upload.** To transfer data from a device such as a workstation or microcomputer to a host computer. Contrast with *download*.

**user.** A person who requires the services of a computing system.

## V

**vector graphics.** (1) Computer graphics in which display images are generated from display commands and coordinate data. (l) (A) (2) A method of representing a computer graphic as a pattern of lines. See *graphic*. Contrast with *character graphics* and *raster*.

**virtual machine.** A functional simulation of a computer and its associated devices.

**Virtual Machine/Extended Architecture System Product (VM/XA SP).** An IBM licensed program that supports System/370 and 370-XA mode virtual machines. It offers, in the XA environment, an interactive environment capable of supporting large numbers of users.

**Virtual Machine/System Product (VM/SP).** An IBM licensed program that manages the resources of a single computer so that multiple computing systems appear to exist. Each virtual machine is the functional equivalent of a real machine.

**virtual storage.** The addressable space available to a virtual machine to execute programs and manipulate data.

**VM/SP.** Virtual Machine/System Product.

**VM/XA SP.** Virtual Machine/Extended Architecture System Product.

## W

**window.** A part of a display screen with visible boundaries in which information is displayed. A window can be smaller than or equal in size to the display screen. Windows can overlap and give the appearance of one window being on top of another. See also *action bar* and *pull-down*.

**workstation.** One or more programmable or nonprogrammable devices that allow a user to do work on a computer. See also *programmable workstation*.

## Z

**zoom in on a picture.** To make a portion of a picture larger.

**zoom out on a picture.** To reduce a graphic or image so that the user can see more of it.

## Numerics

**3270 emulation.** The use of a program that allows a device or system, such as a personal computer or a System/38, to operate in conjunction with a host system as if it were a 3270-series display station or control unit. See *emulation*.

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