

**BookManager BUILD/MVS
Installation Planning and Customization
Release 2**

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BookManager BUILD/MVS

SC38-2037-0

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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 v.

First Edition (December 1990)

This edition applies to Release 2 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. Consult the latest *IBM System/370, 30xx, 4300, and 9370 Processors Bibliography*, GC20-0001, for current information on this product. Make sure you are using the correct edition for the level of the product.

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Programming Interfaces

This publication is intended to help the MVS system programmer plan to install and customize the IBM BookManager BUILD/MVS licensed program for use in an MVS environment.

However, this publication also documents general-use programming interface information and associated guidance information.

General-use programming interfaces allow the customer to write programs that request or receive the services of BookManager BUILD/MVS. General-use programming interface information is explicitly identified where it occurs, either as an introductory statement to a chapter or section that is entirely general-use programming interface information or is marked as follows:

```
_____ General-Use Programming Interface _____  
  
Description of general-use programming interface information...  
  
_____ End of General-Use Programming Interface _____
```

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DisplayWrite	Proprinter
GDDM	PS/2
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MVS/ESA	RT PC
MVS/SP	Systems Application Architecture

MVS/XA	System/370
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About This Book

This book helps you plan to install the IBM* BookManager* BUILD/MVS licensed program for use in an MVS environment, and customize BookManager BUILD/MVS for your site. BookManager BUILD/MVS lets you create online books from files marked up with IBM Generalized Markup Language (GML) Starter Set, IBM Publishing Systems BookMaster*, or CALS SGML, the Standard Generalized Markup Language for the Computer-aided Acquisition and Logistics Support initiative.

To display and search online books at your terminal or programmable workstation, you need IBM BookManager READ/VM, IBM BookManager READ/DOS, or IBM BookManager READ/2. The Index utility, which is provided with BookManager BUILD, lets you group books together on a bookshelf and create a search index for rapid searching of the books on a bookshelf.

Who Should Read This Book

This book is for system programmers responsible for installing and administering BookManager BUILD/MVS. It assumes a working knowledge of either the IBM MVS/Extended Architecture (MVS/XA*) operating system or the IBM MVS/Enterprise Systems Architecture (MVS/ESA*) operating system.

How to Use This Book

This book is meant to be used in conjunction with the *IBM BookManager BUILD/MVS Program Directory*. You should understand the system prerequisites and fully read the installation procedures in the *BookManager BUILD/MVS Program Directory* before starting to install BookManager BUILD. This book presents these major topics:

- “BookManager BUILD/MVS Prerequisites” lists the hardware and software products you must have before you can use BookManager BUILD, and those you may want to use to acquire additional function.
- “Preparing to Install the Software” helps you plan to install BookManager BUILD on your system, set up defaults for how BookManager BUILD should work at your site, and verify that you installed the product correctly.
- “Customizing BookManager BUILD/MVS” shows you how to add to the installation defaults or provide exceptions to them.
- “EOYBUILD Member” is the JCL that MVS system programmers will use to set many of the installation defaults.

The book also includes a glossary of terms and abbreviations, a bibliography, and an index.

What's New in BookManager

BookManager BUILD is now available for the MVS/XA and MVS/ESA environments. BookManager licensed programs are also available for these operating systems:

- IBM Virtual Machine/System Product (VM/SP) and IBM Virtual Machine/Extended Architecture* System Product (VM/XA* SP)

- IBM Operating System/2* (OS/2*)
- IBM Disk Operating System (DOS).

Where to Find More Information

To learn how to use BookManager BUILD/MVS to produce online books, refer to *IBM BookManager BUILD/MVS: Preparing Online Books*, SC38-2036.

To learn about publications for using BookManager in other environments, and other reference materials that might help you use BookManager, see “Bibliography” on page 39.

BookManager BUILD/MVS Prerequisites

The hardware and software prerequisites for the IBM* BookManager* BUILD/MVS licensed program are listed as *required* or *optional*. *Required* means that it is fundamental to the operation of BookManager BUILD and is needed for all sites. *Optional* means that it is needed only if you require the specified function.

Required Hardware

These hardware devices are required to install and use BookManager BUILD:

- An IBM System/370* processor or equivalent that supports your MVS operating system
- One of these tape drives to install the distribution tapes:
 - A 9-track reel device, such as an IBM 3420 Magnetic Tape Unit
 - An 18-track cartridge device, such as an IBM 3480 Magnetic Tape Subsystem
- An IBM 3380 Direct Access Storage device (DASD) or equivalent that supports your MVS operating system. The equivalent of 95 cylinders of disk space is recommended to hold the product libraries from the distribution tapes.

Each BookManager BUILD user requires access to data sets and a region size of 6 megabytes. (Large books can require more storage.)

Note: The Index utility requires a region size of 6 megabytes but may require more storage as you increase the number of books you are indexing.

Optional Hardware

These hardware devices are needed for BookManager BUILD to provide the specified optional functions:

- To create image data sets from printed pictures, BookManager BUILD requires a scanner device supported by the IBM Graphical Data Display Manager (GDDM*), such as an IBM 3117 Scanner or IBM 3118 Scanner.
- To scan images and then upload the image data sets to the MVS host system, BookManager BUILD requires a scanner device, such as an IBM 3119 Scanner, with an IBM Personal System/2* (PS/2*).
- To edit images or create certain vector graphics, BookManager BUILD requires a display device that GDDM supports as a graphics device, such as an IBM 3279 Color Display Station Model S3G.

Required Software

These software products are required to install and use BookManager BUILD/MVS:

- One of these operating systems:
 - IBM MVS/Extended Architecture (MVS/XA*) System Product Version 2 (MVS/SP* Version 2) (Program Number 5740-XC6 or 5665-291)

- IBM MVS/Enterprise Systems Architecture (MVS/ESA*) System Product Version 3 (MVS/SP Version 3) (Program Number 5685-001 or 5685-002)
 - IBM MVS/Enterprise Systems Architecture (MVS/ESA) System Product Version 4 (MVS/SP Version 4) (Program Number 5695-047 or 5695-0484)
 - IBM System Modification Program/Extended (SMP/E) for MVS, Release 5.1 (Program Number 5668-949)
 - IBM Document Composition Facility (DCF) Release 3.2 or later (Program Number 5748-XX9)
 - IBM Interactive System Productivity Facility (ISPF) Version 3 for MVS, Release 2 or later (Program Number 5685-054)
 - IBM Interactive System Productivity Facility/Program Development Facility (ISPF/PDF) Version 3 for MVS, Release 2 or later (Program Number 5665-402)
 - IBM TSO Extensions (TSO/E) Version 2 (Program Number 5685-025)
 - IBM C/370 Library Release 2 (Program Number 5688-039).
- Note:** The IBM C/370 Library Release 2 is also included with the IBM C/370 Compiler Release 2 (Program Number 5688-040).

Optional Software

These software products are needed for BookManager BUILD/MVS to provide the specified optional functions:

IBM Publishing Systems BookMaster*

Release 3 (Program Number 5688-015)

To build books using source files marked up with BookMaster tags, you need IBM Publishing Systems BookMaster. BookMaster is required when source files for IBM product books are used as input.

IBM Publishing Systems ProcessMaster* with the CALS Application Feature, MVS Edition

Release 3 (Program Number 5685-055)

To include graphics in computer graphics metafile (CGM) format or images in CCITT G4 format, you need IBM Publishing Systems ProcessMaster with the Computer-aided Acquisition and Logistics Support (CALS) Application Feature, MVS Edition.

To include source files marked up with CALS Standard Generalized Markup Language (SGML) tags, you need the CALS SGML macro library (MACLIB), which is part of the CALS Application Feature. This also requires the IBM SGML Translator for the Document Composition Facility (DCF).

IBM SGML Translator for the Document Composition Facility (DCF)

Release 2 (Program Number 5684-025)

To include source files marked up with CALS SGML tags, you need the IBM SGML Translator for the Document Composition Facility (DCF). This also requires the CALS SGML MACLIB, which is part of the CALS Application Feature of ProcessMaster.

IBM Publishing Systems PostScript Interpreter for Advanced Function Printing

Release 2 (Program Number 5688-104)

To include graphics in encapsulated PostScript** format, you need IBM Publishing Systems PostScript Interpreter for Advanced Function Printing.

IBM Graphical Data Display Manager for MVS (GDDM/MVS)

Version 2 Release 2 or later (Program Number 5665-356)

To include pictures in your online books, you need IBM Graphical Data Display Manager for MVS (GDDM/MVS). Without GDDM/MVS, online books can consist of text only.

Other Products to Use with BookManager BUILD/MVS

These products can also be used with BookManager BUILD:

IBM BookManager READ/VM

Release 2 (Program Number 5684-062)

To display books that were created with BookManager BUILD on a VM host system, you need the IBM BookManager READ/VM licensed program.

IBM BookManager READ/DOS

Version 1.2 (Program Number 5601-453)

To display books that were created with BookManager BUILD on an IBM Personal Computer (except the PCjr* and RT PC*), an IBM Personal Computer XT* (except the XT/370), an IBM Personal Computer AT* (except the AT/370), or an IBM Personal System/2 (PS/2) running the IBM Disk Operating System (DOS), you need the IBM BookManager READ/DOS licensed program and the IBM Disk Operating System (DOS) Version 3.3 (Program Number 6280-060) or later.

IBM BookManager READ/2

Version 1.2 (Program Number 5601-454)

To display books that were created with BookManager BUILD on an IBM Personal System/2 (PS/2) or an IBM Personal Computer AT running the IBM Operating System/2* (OS/2*) system, you need the IBM BookManager READ/2 licensed program and the IBM Operating System/2 (OS/2) Version 1.2 or later, Standard Edition (Program Number 6024-926 for 3.5-inch diskettes, Program Number 6024-930 for 5.25-inch diskettes), or Extended Edition (Program Number 15F7-143 for 3.5-inch diskettes, Program Number 15F7-144 for 5.25-inch diskettes).

Note: Books built with BookManager BUILD Release 2 must be read with Release 2 of BookManager READ for any operating environment.

IBM Graphical Display and Query Facility (GDQF)

Release 5 (Program Number 5668-905)

To convert graphics in Computer-Augmented Design and Manufacturing (CADAM**) and Computer-Graphics Aided Three-Dimensional Interactive Application (CATIA**) formats to ADMGDF format, you need IBM Graphical Display and Query Facility (GDQF).

IBM Interleaf Publisher Data Export Program

(Program Number 06F2-458)

To convert to generalized markup language (GML) source files that were created using the IBM Interleaf** Publisher (Program Number 25F5-911 or 25F5-912) on an IBM Personal System/2 (PS/2), you need the IBM Interleaf Publisher Data Export Program.

IBM Interleaf Publishing Series RT Data Export Program

(Program Number 06F2-451)

To convert to GML source files that were created using the IBM Interleaf Publishing Series RT* Edition (Program Number 06F2-450) on an IBM RT System workstation, you need the IBM Interleaf Publishing Series RT Data Export Program.

IBM DisplayGraphics

Version 1.1 (Program Number 75X3-228 for 3.5-inch diskettes, Program Number 75X3-229 for 5.25-inch diskettes)

To convert graphics created on an IBM PS/2 running DOS to ADMGDF format and send them to the MVS host to include them in books, you need IBM DisplayGraphics.

IBM Publishing Systems ProcessMaster with the TextTagger Feature

Release 3 (Program Number 5685-055)

To insert GML Starter Set tags, BookMaster tags, or CALS SGML tags in the following types of files, you need IBM Publishing Systems ProcessMaster with the TextTagger Feature:

- Unformatted ASCII or EBCDIC files
- Printer files for any of these printers:
 - IBM Proprinter*, all models
 - Epson** FX, RX, MX, and LQ printers
 - Diablo** 620 or 630 printers
- LIST1403 files
- Revisable-Form Text Document Content Architecture (RFT DCA) files
- WordPerfect** Release 5.0 or later
- Processed Document Architecture (PDA) files produced by Calera** products.

Note: ASCII and RFT DCA files come from a variety of sources, including:

- Word processing programs, including IBM DisplayWrite*
- Optical character recognition (OCR) products, such as IBM TextReader*.

IBM GDDM Image View Utility (GDDM-IVU)

(Program Number 5668-723)

To scan images from paper into soft-copy format and prepare or edit them online, you need GDDM-IVU. This requires a scanning device, such as an IBM 3119 Scanner.

Preparing to Install the Software

This chapter is an overview of the BookManager BUILD installation and verification procedures for the MVS operating systems. It also provides information on setting installation defaults.

BookManager BUILD Distribution Tapes

There are two distribution tapes for BookManager BUILD/MVS, and both are in SMP/E RELFILE format. One tape contains the base product and synonym dictionaries. The other tape contains the product's interface in one of the languages supported by BookManager (U.S. English, for example), and also includes the BookManager BUILD/MVS online books and the source files for these books.

Product Libraries on the Base Tape

Table 1 alphabetically lists the libraries that are on the base tape. The volume serial number (VOLSER) is BKP110.

<i>Table 1. Product Libraries on the Base Tape</i>	
Distribution Library Name	Description
AEOYCLIB	The REXX libraries
AEOYIPRF	Default BUILD options data set
AEOYLEXS	The synonym dictionaries
AEOYLOAD	The BookManager load libraries
AEOYMC20	A macro library for BookManager BUILD
AEOYMC32	A macro library for the GML Starter Set markup language
AEOYPROC	The PROCLIB
AEOYSAMP	Sample jobs to do SMP/E install and postinstall conversions

Product Libraries on the U.S. English Tape

Table 2 on page 6 alphabetically lists the libraries that are on the U.S. English tape. The VOLSER is BKP117.

<i>Table 2. Product Libraries on the U.S. English Tape</i>	
Distribution Library Name	Description
AEOYAENU	An ADMGDF artwork file
AEOYBENU	Background messages
AEOYGENU	ISPF dialog tag language files
AEOYIENU	A PSEG3820 artwork file
AEOYLENU	License agreement
AEOYMENU	ISPF messages (ISPMLIB)
AEOYOENU	BookManager BUILD/MVS online books
AEOYPENU	ISPF panels (ISPLIB)
AEOYSENU	The bookshelf for BookManager BUILD/MVS online books
AEOYTENU	ISPF tables (ISPTLIB)
AEOYXENU	The bookshelf search index for BookManager BUILD/MVS online books
AEOY1ENU	The source files for <i>BookManager BUILD/MVS: Preparing Online Books</i>
AEOY2ENU	The source files for <i>BookManager BUILD/MVS: Installation Planning and Customization</i>

Installation Steps

BookManager BUILD is installed using SMP/E. The base tape contains all the SMP/E jobs necessary to install BookManager BUILD in the EOY.SEOYSAMP data set.

You can use SMP/E either in an interactive or a batch mode to install BookManager BUILD. If you use the interactive approach, you will use ISPF menus to enter information. The *IBM System Modification Program/Extended: Terminal User's Guide*, SC28-1109, describes the dialog process.

If you install BookManager BUILD using the batch mode, you may first submit a sample job to unload all the SMP/E jobs from the base tape. Refer to the *IBM System Modification Program/Extended: User's Guide*, SC28-1302 for more details on the batch process.

Note: Refer to the *BookManager BUILD/MVS Program Directory* for specific installation instructions.

To install BookManager BUILD:

1. Allocate the BookManager BUILD target and distribution libraries.
2. Define the BookManager BUILD target and distribution libraries to SMP/E using DDDEFs.
3. Perform the RECEIVE step, which unloads data from the BookManager BUILD distribution tapes to SMP/E TLIBs.
4. Perform an APPLY CHECK, which verifies that you are ready to perform the APPLY step.

5. Perform the APPLY step, which loads the target libraries.
6. Perform the POST-APPLY LINK-EDIT step, which resolves external references.
7. Copy online books and synonym dictionaries from partitioned data sets into sequential data sets.
8. Set installation defaults and test the product.
9. Perform an ACCEPT CHECK, which verifies that you are ready to perform the ACCEPT step.
10. Perform the ACCEPT step, which copies the product data sets to the distribution libraries.

Setting Installation Defaults

Before you can use BookManager BUILD, you must set the BUILD defaults for your site by customizing the PROCLIB called EOY.SEOYPROC and the EOYPARM member of the BookManager BUILD data set called EOY.SEOYCLIB. The high-level qualifier in the PROCLIB and EOYPARM must be modified to match the high-level qualifier you name during the APPLY step of the installation process. Both the PROCLIB and EOYPARM provide comments to assist in the modification.

Within the PROCLIB, set installation defaults for:

- The BookManager high-level qualifier
- The markup language used to format books (GML Starter Set, BookMaster, or CALS SGML)
- The macro libraries and profiles for markup languages
- The SCRIPT user exits for your site
- Names of the optional graphic and image conversion program libraries (the PostScript Interpreter and the ProcessMaster CALS Application Feature)
- The GDDM symbol libraries
- Names of the optional public graphic and image libraries (ADMGDF, ADMIMG, CGM, CCITG4, EPS, and PSEGnnnn)
- The location of the REXX EXECs
- The name of the BUILD options data set for your site
- The name of the SGMLDCF options data set for your site.

Within the EOYPARM member, set installation defaults for:

- The background PROCLIB
- The BookManager high-level qualifier
- The high-level qualifier for the synonym dictionary associated with the default language
- The default language for synonyms in a bookshelf search index.

Customizing the PROCLIB

The PROCLIB is divided into two members: EOYBUILD and EOYINDEX. The changes that you make are used as the defaults for your site. To make sure that you know how to respond, take a few minutes to read the following topics before you modify the PROCLIB.

Updating the EOYBUILD Member

The following sections are defaults that you can modify within the EOYBUILD member of the PROCLIB. (The EOYBUILD member can be found in the appendix.)

Specifying the BookManager High-Level Qualifier

The default high-level qualifier for the BookManager data sets is EOY. If you want to change the default value, specify the high-level qualifier for the BookManager BUILD data sets in place of 'EOY'.

```
/* Specify the high-level qualifier (HLQ) where
/* BookManager BUILD/MVS was installed.
/*
//EOYBUILD PROC HLQ='EOY',
```

Specifying the Default Markup Language

BookManager BUILD uses the GML Starter Set (SSGML), BookMaster (BOOKMGML), or CALS SGML (CALSSGML) markup languages to create online books. The default markup language is the GML Starter Set. If you want to change the default value, specify your default markup language in place of 'SSGML'.

```
/* Specify the default markup language for your site.
/*
//      MARKUP='SSGML',
```

Specifying Macro Libraries for Markup Languages

Specify the name of the macro library for your default markup language. If you have other markup languages installed and want to make them available to users, specify the names of their macro libraries also.

```
/* DCF Macro Libraries:
/*
//SSGML DD DSN=EOY.SEOYMC32,DISP=SHR
//BOOKMGML DD DSN=EDF.R30.EDFLIB,DISP=SHR
//CALSSGML DD DSN=EHZ.CALS.EHZMLBC,DISP=SHR
```

Specifying Profiles for Markup Languages

Specify the name of the profile for your default markup language. If you have other markup languages installed and want to make them available to users, specify the names of their profiles also.

```
/* DCF Profiles:
/*
//SSPROF DD DSN=EOY.SEOYMC32(DSMPROF3),DISP=SHR
//BMPROF DD DSN=EDF.R30.EDFLIB(EDFPRF30),DISP=SHR
//CALSPROF DD DSN=EHZ.CALS.EHZMLBC(EHZPROF),DISP=SHR
```

Specifying the SCRIPT User Exits

Specify the names of the SCRIPT user exits for your site. For more details on SCRIPT user exits, see “EDJPRF20 SCRIPT Exits” on page 24.

```
/* SCRIPT User Exits:
/*
/* EOYUE01 DD DSN=SITE.EOYUE01.TEXT,DISP=SHR
/* EOYUE02 DD DSN=SITE.EOYUE02.TEXT,DISP=SHR
/* EOYUE03 DD DSN=SITE.EOYUE03.TEXT,DISP=SHR
```

Including Graphics and Images

To include vector graphics and raster images in your books, you must use GDDM with BookManager BUILD.

```
/* Specify the GDDM symbol libraries.
/*
//ADMSYMBL DD DSN=SYS1.GDDM.GDDMSYM,DISP=SHR
```

On the lines where you see **Site Library**, specify the names of your public graphic and image libraries in place of the **SYS1.SITE** sample name.

Note: The libraries must be partitioned data sets.

```
/* Public Graphic and Image Libraries:
/*
/*
//ADMGDF DD DDNAME=UGDF
//UGDF DD DSN=SYS1.SITE.ADMGDF,DISP=SHR <== Site Library
/*
/*
//ADMIMG DD DDNAME=UIMG
//UIMG DD DSN=SYS1.SITE.ADMIMG,DISP=SHR <== Site Library
/*
/*
//CCITTG4 DD DDNAME=UCCITT
//UCCITT DD DSN=SYS1.SITE.CCITTG4,DISP=SHR <== Site Library
/*
/*
//EOYCGM DD DDNAME=UCGM
//UCGM DD DSN=SYS1.SITE.CGM,DISP=SHR <== Site Library
/*
/*
//EPS DD DDNAME=UEPS
//UEPS DD DSN=SYS1.SITE.EPS,DISP=SHR <== Site Library
/*
/*
//PSEG3820 DD DDNAME=U3820
//U3820 DD DSN=SYS1.SITE.PSEG3820,DISP=SHR <== Site Library
/*
/*
//PSEG38PP DD DDNAME=U38PP
//U38PP DD DSN=SYS1.SITE.PSEG38PP,DISP=SHR <== Site Library
/*
/*
```

```
//PSEG4250 DD DDNAME=U4250
//U4250 DD DSN=SYS1.SITE.PSEG4250,DISP=SHR <== Site Library
```

Specifying the Location of the REXX EXECs

Specify the location of the BUILD processes and, if you use CALS SGML, the CALS conversion routines.

```
/** Specify the location of the REXX EXECs.
/**
/**
/** - the location of the BUILD processes
/**
//SYSEXEC DD DSN=&HLQ..SEOYCLIB,DISP=SHR
/**
/**
/** - the CALS conversion routines
/**
// DD DSN=EHM.EHMSGML.SEHMEXC1,DISP=SHR
// DD DSN=EHZ.CALS.EHZEXC1,DISP=SHR
```

Specifying the BUILD Options Data Set

You can specify a set of default BUILD options for online books at your site. Specify the name of the BUILD options data set to be used at your site. The data set can be partitioned or sequential. See “Using BUILD Options Data Sets” on page 15 for more information.

```
/** BUILD Options Data Set (site default):
/**
//BLDOPTND DD DSN=&HLQ..SEOYIPRF(IBMBOOKS),DISP=SHR
```

Specifying the SGMLDCF Options Data set

If CALS SGML is your markup language, you can specify a set of default SGMLDCF options for online books at your site. Specify the name of the SGMLDCF options data set to be used at your site. See “Using SGML Translator Options” on page 21 for more information on the SGMLDCF options data set.

```
/** SGMLDCF options data set (site default):
/**
//SGMLOPTN DD DSN=EHZ.CALS.EHZOPT1(EHZCALST),DISP=SHR
```

Updating the EOYINDEX Member

To update the EOYINDEX member, specify the high-level qualifier for the BookManager BUILD data sets in place of 'EOY' if you change the default value for the high-level qualifier in the EOYBUILD member. See “Specifying the BookManager High-Level Qualifier” on page 8 for details.

Figure 1 on page 11 is the EOYINDEX member of the PROCLIB.

```

/* Specify the high-level qualifier (HLQ) where
/* BookManager BUILD/MVS was installed.
/*
//EOYINDEX PROC HLQ='EOY'
/*
/*
// EXEC PGM=IKJEFT01,DYNAMNBR=30,REGION=4096K
/*
/*
//SYSEXEC DD DSN=&HLQ..SEOYCLIB,DISP=SHR
/*
/*
//MSGFILE DD DSN=&HLQ..SEOYBENU(EOYMSG),DISP=SHR
/*
/*
//SYSTSPRT DD SYSOUT=*
//SYSPRINT DD SYSOUT=*
/*

```

Figure 1. EOYINDEX Member

Updating the EOYPARM Member

To update the EOYPARM member:

1. Specify the high-level qualifier for the BookManager BUILD data sets in place of 'EOY' in the **EOYBLDHLQ =** field if you change the default value for the high-level qualifier in the EOYBUILD member of the PROCLIB. See "Specifying the BookManager High-Level Qualifier" on page 8 for details.
2. Specify the high-level qualifier for the synonym dictionary to be used with a bookshelf search index in the **EOYLEXHLQ =** field. The default high-level qualifier for the synonym dictionary is 'EOY'.
3. Specify the default language for the synonym dictionary. Table 3 on page 12 lists the abbreviations for the languages. In the EOYPARM member, U.S. English ('ENGL') is the default value.

Figure 2 is the EOYPARM member of the BookManager BUILD data set EOY.SEOYCLIB.

```

/*----- BOOKMANAGER'S INSTALLATION DEFAULTS -----*/

EOYPROCLIB = "'EOY.SEOYPROC(EOYBUILD)'" /* BACKGROUND PROCLIB */

EOYBLDHLQ = 'EOY' /* BOOKMANAGER HIGH-LEVEL QUALIFIER */

EOYLEXHLQ = 'EOY' /* LEXIS HIGH-LEVEL QUALIFIER */

EOYLEXLANG = 'ENGL' /* DEFAULT LANGUAGE */

```

Figure 2. EOYPARM Member

The Index utility creates a bookshelf and associates a linguistic dictionary with each bookshelf search index to be used for synonym searching. Each bookshelf search

index can have a different default language. BookManager associates each language it supports with a linguistic dictionary of root words from which users can obtain synonyms in that language. Table 3 lists the languages BookManager supports, the abbreviations for the languages, and the data set names of the linguistic dictionaries associated with each language.

<i>Table 3. Synonym Languages and Dictionary Data Set Names</i>		
Language Name	Abbreviation	Dictionary Data Set Name
Belgian Dutch	BDUT	EOY.EIJDUTC.LEXIS
Belgian French	BFRE	EOY.EIJFREN.LEXIS
Brazilian Portuguese	BPOR	EOY.EIJPORT.LEXIS
Canadian French	CFRE	EOY.EIJCFRE.LEXIS
Danish	DANI	EOY.EIJDANI.LEXIS
Dutch	DUTC	EOY.EIJDUTC.LEXIS
French	FREN	EOY.EIJFREN.LEXIS
German	GERM	EOY.EIJGERM.LEXIS
Italian	ITAL	EOY.EIJITAL.LEXIS
Norwegian	NORW	EOY.EIJNORW.LEXIS
Portuguese	PORT	EOY.EIJPORT.LEXIS
Spanish	SPAN	EOY.EIJSPAN.LEXIS
Swedish	SWED	EOY.EIJSWED.LEXIS
Swiss French	SFRE	EOY.EIJFREN.LEXIS
Swiss German	SGER	EOY.EIJGERM.LEXIS
Swiss Italian	SITA	EOY.EIJITAL.LEXIS
U.K. English	UKEN	EOY.EIJUKEN.LEXIS
U.S. English	ENGL	EOY.EIJENGL.LEXIS

Verifying the Installation

To verify that BookManager BUILD has been installed properly, perform these steps:

1. Log on to a user ID that has all required ISPF libraries allocated and access to the BookManager BUILD data sets.
2. At the TSO/E READY mode message, type **build** and press ENTER.
3. At the BookManager BUILD logo panel, press ENTER.
4. On the BookManager BUILD/MVS Main Panel, type **'eoy.seoysamp(eoysamp)'** in the **Data set name** field under **Other partitioned or sequential data set** and press **F6** to submit the job. Figure 3 on page 13 shows a sample panel. The Output Information window will appear when you press F6.

```

----- BookManager BUILD/MVS Main Panel -----
Type the name of the data set from which to build a book:

ISPF library:
PROJECT. . . _____
GROUP. . . . _____
TYPE . . . . _____
MEMBER . . . _____ (Blank or pattern for member selection list)

Other partitioned or sequential data set:
Data set name. . . . 'eoy.seoysamp(eoysamp)' _____

Markup language (type x to select one):
GML Starter Set X      BookMaster _    CALS SGML _

BUILD options data set. . _____

                                                    Press ENTER to continue.

COMMAND ==>
F1=Help   F2=Split   F3=Exit   F6=Submit   F9=Swap   F12=Cancel

```

Figure 3. BookManager BUILD/MVS Main Panel

Note: The **X** will appear next to the markup language that is the default for your site.

5. Press ENTER to confirm the **Output data set for book** in the Output Information window. Figure 4 shows a sample window.

```

----- BookManager BUILD/MVS Main Panel -----
Type the name of the data set from which to build a book:

ISPF library:
PROJECT. . . _____
GROUP. . . . _____
TYPE . . . . _____
MEMBER . . . _____ (Blank or pattern for member selection list)

Other partitioned or sequential data set:
Data set name. . . . 'eoy.seoysamp(eoysamp)' _____
Output Information _____

Press ENTER to accept or type a new data set name:
Output data set for book. . 'userid.EOYSAMP.BOOK' _____

COMMAND ==>
F1=Help   F2=Split   F9=Swap   F12=Cancel

COMMAND ==>
F1=Help   F2=Split   F3=Exit   F6=Submit   F9=Swap   F12=Cancel

```

Figure 4. Output Information Window

Note: The first time you submit the job, the Job Statement Information panel will appear for you to modify.

6. Type over the variables shown on the Job Statement Information panel and press **F6** to submit the job. Figure 5 on page 14 shows a sample panel. If you need instructions on how to fill in this panel, refer to *BookManager BUILD/MVS: Preparing Online Books*.

```
----- Job Statement Information -----  
  
Type job statement information for building the book:  
  
//useridA JOB (ACCOUNT),'NAME',CLASS=A,_____  
//  MSGCLASS=X,NOTIFY=userid,MSGLEVEL=(1,1)_____  
//*_____  
//*_____
```

Press F6 to submit the job.

COMMAND ==>
F1=Help F2=Split F3=Exit F6=Submit F9=Swap F12=Cancel

Figure 5. Job Statement Information Panel

7. Examine the condition code and messages in the batch output. If all condition codes are zeros and no error messages are displayed, you have successfully completed the BookManager BUILD installation verification procedure.

Customizing BookManager BUILD/MVS

The customizing functions of BookManager BUILD allow both the site and an individual user to modify how BookManager BUILD works. When you modify the PROCLIB and the EOYPARM member, you will set some default options. You can further customize BookManager BUILD by adding to or giving exceptions to these defaults in any of these ways:

- You can create a *BUILD options data set* for your site to specify BookManager BUILD options and SCRIPT command options automatically each time a user creates an online book.
- If your site has its own SCRIPT *macro library* and *profile*, you can change the operation of BookManager BUILD.
- If CALS SGML is your markup language, you can set options for the SGML Translator by using an *SGMLDCF options data set*.
- You can use *user exits* provided for the BUILD process and SCRIPT.

The following topics describe how you can customize the way BookManager BUILD operates when it is building books. To learn how to change the information in an online book, refer to *BookManager BUILD/MVS: Preparing Online Books*.

Using BUILD Options Data Sets

You can override the defaults for building books at your site by creating a BUILD options data set to provide BUILD options and SCRIPT command options for individual books or for a number of books. For example, you can specify the lowest heading level to be treated as a topic or specify the markup language used in a book.

Users can override the site defaults by creating their own BUILD options data set and by specifying options on the BUILD Options panel. This allows users to take advantage of common defaults established for the site and to set other defaults for their own needs.

Because a BUILD options data set can contain both BUILD options and SCRIPT command options, it helps to understand the following before you start:

- The order in which BookManager BUILD processes BUILD options.
- The SCRIPT command options that BookManager BUILD sets for building a book.
- The SCRIPT command options that are defaults for building a book in your markup language.
- Which BUILD options you can specify in the BUILD options data set for your site.
- Which SCRIPT command options you can specify in the BUILD options data set for your site.

The following topics cover this information.

How BookManager BUILD Processes BUILD Options

At installation, you will set default values for some BUILD options. BUILD options data sets can be used to change or add to these values. When a user builds a book, BookManager BUILD reads information in the following order to determine which BUILD options to use:

- First, it reads the data set containing the default BUILD options for your site.
- Next, it reads the options specified in a user's BUILD options data set when that data set is specified on the BookManager BUILD/MVS Main Panel.
- Last, it uses the options specified by a user on the BUILD Options panel.

For a given option, the last value read is the one that BookManager uses. This order lets the user fine-tune the BUILD process as necessary.

As an example, suppose that the installation default specifies that topics be created only for :H1 through :H3 headings, and that the company standard for pictures is ADMGDF. At this point, the BUILD options data set has specified site defaults for TOPIC and PICTURE, but the other defaults are still active.

Next, a user's BUILD options data set specifies creating topics only for :H1 and :H2 headings and using the MSGNO option. At this point, the user has overridden the default for TOPIC and added MSGNO. The other options are as they were before BookManager BUILD read the user's BUILD options data set.

Finally, a user decides to enter an option on the BUILD Options panel, perhaps to add an option or change something already specified in a BUILD options data set.

The point is that BookManager BUILD lets the user decide how a book will be built.

SCRIPT Command Options Set by BookManager BUILD

Some documents require that you specify certain SCRIPT command options for proper results. You can do this by including the SCRIPT options in your BUILD options data set. However, when you prepare this data set, keep in mind that BookManager BUILD ignores certain options and changes others to suit the needs of online books rather than printed books.

The following list describes the options that BookManager BUILD ignores or changes if you specify them. Refer to *BookManager BUILD/MVS: Preparing Online Books* for more details.

BIND	<i>Ignored.</i> BookManager BUILD causes SCRIPT to use the option BIND (0 0).
CTF	<i>Ignored.</i> CTF creates condensed text format files for the IBM Storage and Information Retrieval System (STAIRS), which BookManager BUILD does not support.
DEVICE	<i>Ignored.</i> BookManager BUILD causes SCRIPT to use the option DEVICE (2741).
FILE	<i>Ignored.</i> BookManager BUILD causes SCRIPT to use the FILE option to name its work data set.

- INDEX** *Changed.* If you use the INDEX option, BookManager BUILD creates an index containing topic identifiers instead of page numbers.
- LIB(*libname*)**
Changed. BookManager BUILD causes SCRIPT to use the BookManager macro library (EOY.SEOYMC20) as the first library in the library search order.
- If you use the LIB option, SCRIPT uses EOY.SEOYMC20 and the library or libraries you specify. See “Using Your Site SCRIPT Macro Library and Profile” on page 21 for more information.
- If you omit the LIB option, SCRIPT uses EOY.SEOYMC20 and the library required by the markup language for the book. See “SCRIPT Command Options Set for Your Markup Language” on page 18 for more details.
- NOPROF** *Changed.* BookManager BUILD causes SCRIPT to use the BookManager profile (EDJPRF20).
- If you specify NOPROF, EDJPRF20 does not imbed any user profile.
- If you omit the NOPROF and PROFILE options, EDJPRF20 imbeds the profile required by the markup language for your book.
- See “Using Your Site SCRIPT Macro Library and Profile” on page 21 for more details.
- PAGE** *Ignored.* The PAGE option would allow you to format only certain pages in the book. BookManager BUILD requires that the entire book be formatted.
- PRINT** *Ignored.* BookManager BUILD requires the FILE option, which conflicts with PRINT.
- PROFILE(*name*)**
Changed. BookManager BUILD causes SCRIPT to use the BookManager profile (EDJPRF20).
- If you use the PROFILE option, EDJPRF20 imbeds the profile you specify.
- If you omit the PROFILE and NOPROF options, EDJPRF20 imbeds the profile required by the markup language for your book.
- See “Using Your Site SCRIPT Macro Library and Profile” on page 21 for more details.
- SYSVAR(*variable value*)**
Variables D, H, S, and X are changed. Most other SCRIPT system variables work for a BookManager online book just as they do for printed ones.
- BookManager BUILD causes SCRIPT to use the following values for system variables D, H, S, and X for the GML Starter Set and BookMaster, and G for BookMaster. No variable values are set for CALS SGML.
- D** SYSVAR (D NO). Duplexing does not apply to an online book.

- G** SYSVAR (G YES). Only BookMaster uses this variable, which requests that artwork be included in the book.
- H** SYSVAR (H NO). SCRIPT assigns topic identifiers to headings.
- S** SYSVAR (S 1). An online book has a single full-width column.
- X** SYSVAR (X NO). No cross-reference listing is produced at the end of the book.

TERM *Ignored by BookManager BUILD. BookManager BUILD requires the FILE option, which conflicts with TERM.*

SCRIPT Command Options Set for Your Markup Language

By default, BookManager BUILD specifies certain SCRIPT command options for all online books, and always specifies use of the EOY.SEOYMC20 macro library, which is part of BookManager BUILD. In addition, depending on which markup language is the default at your site, BookManager BUILD specifies other options. Here are the default SCRIPT command options for each markup language when a user builds an online book:

GML Starter Set SCRIPT options for BookManager BUILD:

```

BIND(0 0)
CONTINUE
DDUT
DEVICE(2741)
FILE
LIB('EOY.SEOYMC20' 'EOY.SEOYMC32')
PROFILE('EOY.SEOYMC20(EDJPRF20)')
SYSVAR(D NO H NO S 1 X NO)
TWOPASS

```

BookMaster SCRIPT options for BookManager BUILD:

```

BIND(0 0)
CONTINUE
DDUT
DEVICE(2741)
FILE
LIB('EOY.SEOYMC20' 'EDF.R30.EDFLIB')
PROFILE('EOY.SEOYMC20(EDJPRF20)')
SYSVAR(D NO G YES H NO S 1 X NO)
TWOPASS

```

CALS SGML SCRIPT options for BookManager BUILD:

```

BIND(0 0)
CONTINUE
DDUT
DEVICE(2741)
FILE
LIB('EOY.SEOYMC20' 'EHZ.CALS.EHZMLBC')
PROFILE('EOY.SEOYMC20(EDJPRF20)')
TWOPASS

```

BookManager BUILD Options

The BUILD options data set for your site can include any of the BUILD options shown in Table 4. You can use these options in any order and mix them with SCRIPT options. The values for some options must be enclosed in parentheses. For a detailed description of BUILD options, refer to *BookManager BUILD/MVS: Preparing Online Books*.

Option	Description
BOOKMGML	Specifies BookMaster as the markup language.
CALSSGML	Specifies CALS SGML as the markup language.
SSGML	Specifies the GML Starter Set as the markup language.
MSGNO	Requests that BookMaster :MSGNO tags create topics.
PICTURE <i>(format)</i>	Specifies the formats of a book's graphic and image artwork. For graphics, you can specify ADMGDF, CGM, and EPS. For images, you can specify ADMIMG, CCITTG4, PSEG3820, PSEG38PP, and PSEG4250. (You can also specify PSEG* to include all three types of PSEG data sets, but the search is not as fast.)
SCRIPTNAME <i>name</i>	Tells BookManager BUILD the name your site uses to invoke the SCRIPT formatter.
TOPIC <i>level</i>	Specifies the lowest heading level or CALS SGML tag you want SCRIPT to format as a topic. Headings that are not treated as topics do not receive topic numbers.
TRACE <i>n</i>	Specifies the lowest heading level for which you want BookManager BUILD to display status messages.
DEBUG	Use only for debugging purposes. This option saves the temporary data sets created while a book is being built. These files are named differently for each book so that they are not overwritten even when you submit several jobs in a sequence. Therefore, it is not advisable to use the debug option except for problems you cannot solve from reading messages and reviewing the output of your job.

SCRIPT Options

If you use the GML Starter Set or the BookMaster markup language, you can specify a few SCRIPT command options in the BUILD options data set. You can use the options in any order and mix them with BUILD options. The values for some options must be enclosed in parentheses. Only the options described in this topic can be entered as part of the BUILD options data set for your site. Refer to the following before using SCRIPT options in a BUILD options data set:

- “SCRIPT Command Options Set by BookManager BUILD” on page 16
- “SCRIPT Command Options Set for Your Markup Language” on page 18
- “Using Your Site SCRIPT Macro Library and Profile” on page 21.

Table 5 on page 20 shows the SCRIPT options you can specify. They are listed alphabetically.

Table 5. SCRIPT Options	
Option	Description
INDEX	Requests that an index be formatted from the index tags in your markup.
LIB(<i>libname</i>)	Specifies the SCRIPT macro library or libraries to be used in addition to those specified by BookManager BUILD.
MESSAGE(ID TRACE)	Requests special handling for messages. You can use one or both of these values: ID Includes the message identifier along with the message. TRACE Provides additional information about an error by tracing from the point of error through all the imbedded files back to the primary input file.
NOPROF	Requests that no SCRIPT profile be used to format your book.
PROFILE(<i>name</i>)	Specifies the data set name of the SCRIPT profile to be used to format your book.
SYSVAR(<i>variable value</i>)	Specifies the system variables that control the processing of your source data set.

Creating a BUILD Options Data Set

By creating a BUILD options data set for your site, you establish a common set of options for all users and provide a standard way to build books. To create a BUILD options data set:

1. Edit a sequential data set or a PDS member.
2. Insert a line in the data set to create a record for one of the books to be built. The record can be up to 255 characters long.
 - a. Begin the record with the book name (up to 8 characters).
 - b. Follow the book name with BUILD options.
3. Put a record in the file for each book that needs to have its own BUILD options.
4. Create a default record to handle all books that do not have their own records. Give that record the book name DEFAULT. If the same options are used for most books, you may find that the default record is the only one you need.

Here is a sample BUILD options data set for two books with the book names *TIPS* and *TSOUG*. The last line in the example is the default record, to be used for books that do not have their own records in the BUILD options data set.

Sample BUILD Options Data Set	
TIPS	MSGNO
TSOUG	PICTURE(ADMIMG CCITTG4)
DEFAULT	TOPIC :H2

These records would give BookManager BUILD the following information:

- If building the book *TIPS*, create topics for the MSGNO tags.
- If building the book *TSOUG*, look for artwork members in data sets with the low-level qualifier ADMIMG or CCITTG4.

- For any other book, create topics through heading level 2.

Using Your Site SCRIPT Macro Library and Profile

BookManager BUILD has its own macro library, EOY.SEOYMC20, which is first in the library search order, followed by a macro library suitable for the markup language of the book.

Similarly, BookManager BUILD has its own SCRIPT profile (member name EDJPRF20), which imbeds a profile suitable for the markup language of a book.

For each markup language, Table 6 shows the name of the macro library and profile used along with those of BookManager BUILD. You can change these names for your site if you want to. Each profile name shown is a PDS member of the corresponding macro library.

<i>Table 6. Default Macro Libraries and Profiles</i>		
Markup Language	Macro Library Data Set	Profile Member Name
GML Starter Set	EOY.SEOYMC32	DSMPROF3
BookMaster	EDF.R30.EDFLIB	EDFPRF30
CALS SGML	EHZ.CALS.EHZMLBC	EHZPROF

By using the SCRIPT LIB or PROFILE options, you can tell BookManager BUILD to use your site's SCRIPT macro library or profile. If you do this, make sure your macro library or profile meets the SCRIPT control word restrictions of BookManager BUILD, explained in *BookManager BUILD/MVS: Preparing Online Books*.

If you want to use your site's SCRIPT macro library or profile instead of those Table 6 shows for your markup language, you can. In the following example BUILD options data set, a macro library named SITELIB.MACLIB and a SCRIPT profile named SITEPROF will be used for building the book instead of the profile and macro library in Table 6.

```
bookname lib('sitelib.maclib') profile(siteprof)
```

If you want to use both your own profile and the one Table 6 shows for your markup language, you can. Before using the PROFILE option, use the .IM control word in your profile to imbed the profile shown in Table 6. The following markup example imbeds the profile for BookMaster:

```
.im edfprf30
```

Using SGML Translator Options

If CALS SGML is the markup language for your site, documents are translated to DCF syntax by the SGML Translator before they are built into books. The SGML Translator uses options with its SGMLDCF command to translate online books. You can control these options by creating an SGMLDCF options data set for your site and naming it in the EOYBUILD member of the PROCLIB. See "Specifying the SGMLDCF Options Data set" on page 10 for more details. Users can control these options by creating their own SGMLDCF options data set and specifying it in the SGMLDCF field of the BUILD Options panel.

Here is the default SGMLDCF options data set. For more information on how to use CALS options, refer to *IBM SGML Translator DCF Edition: Validating and Translating an SGML Document*, SC34-5074.

SGMLDCF Options Data Set

```
* SGMLDCF 2.1 CALS APPLICATION OPTIONS
*
LOADMOD('SYS1.EHZ.CALS.EHZLMD1(EHMXC121)')
SEARCH('SYS1.EHZ.CALS.EHZDTD1' 'SYS1.EHZ.CALS.EHZENT1')
TABLE('SYS1.EHZ.CALS.EHZTBL2(EHZCTBL)')
APPLMSGSGS('SYS1.EHM.EHMSGML.SEHMSG1' 'SYS1.EHZ.CALS.EHZMSG2')
APPLEXEC('SYS1.EHZ.CALS.EHZEXC1' 'SYS1.EHM.EHMSGML.SEHMEXC1')
APPLEXEC('SYS1.EHM.EHMSS.SEHMEXC2')
```

BookManager BUILD User Exits

General-Use Programming Interfaces

You can further customize the way BookManager BUILD works if you know how to write programs or SCRIPT macros. These customizing techniques are called user exits. They are implemented as REXX EXECs invoked by the BUILD process or as members of SCRIPT source data sets imbedded by member EDJPRF20 during SCRIPT processing.

BUILD Process Exits

Each user exit can be implemented as a REXX EXEC at the user level or the system level. The user level is checked first. At the user level, BookManager BUILD looks for '&syspref.EOYUE0n.EXEC', and invokes it if it exists. At the system level, the REXX EXEC must be a member of the SYSPROC concatenation.

The following topics describe the BUILD process user exits.

EOYUE01 Initialization Exit

EOYUE01, the initialization exit, receives control from the BUILD process as soon as BookManager BUILD is invoked. BookManager BUILD invokes EOYUE01 as follows:

EXEC EOYUE01 (DOCUMENT *document* USER *userid* DATE *date* TIME *time*)

DOCUMENT *document*

The name of the book being built.

USER *userid*

The user ID of the virtual machine building the book.

DATE *date*

The date when the book was built, in the format *yyyymmdd* (4-digit year, followed by month, followed by day)—for example, 19900702 for July 2, 1990.

TIME *time*

The time when the book was built, in the format *hh:mm:ss* (hours:minutes:seconds)—for example, 10:30:00.

BookManager BUILD accepts the following return codes from EOYUE01:

Return Code	Meaning
0	Continue
100	Exit
Note: All other return codes are treated as return code 0.	

EOYUE02 Before-SCRIPT Exit

EOYUE02, the before-SCRIPT exit, receives control from the BUILD process just before SCRIPT is invoked on the source data set. BookManager BUILD invokes EOYUE02 as follows:

EXEC EOYUE02 (DOCUMENT *document* USER *userid* DATE *date* TIME *time*)

DOCUMENT *document*

The name of the book being built.

USER *userid*

The user ID of the virtual machine building the book.

DATE *date*

The date when the book was built (it matches the date given by the EOYUE01 exit), in the format *yyyymmdd* (4-digit year, followed by month, followed by day)—for example, 19900702 for July 2, 1990.

TIME *time*

The time when the book was built (it matches the time given by the EOYUE01 exit), in the format *hh:mm:ss* (hours:minutes:seconds)—for example, 10:30:00.

BookManager BUILD accepts the following return codes from EOYUE02:

Return Code	Meaning
0	Continue
100	Exit
Note: All other return codes are treated as return code 0.	

EOYUE03 After-SCRIPT Exit

EOYUE03, the after-SCRIPT exit, receives control from the BUILD process just after SCRIPT finishes processing the source data set, and just before the EOYBLDP MODULE post-processor is invoked on the SCRIPT output. BookManager BUILD invokes EOYUE03 as follows:

EXEC EOYUE03 (DOCUMENT *document* USER *userid* DATE *date* TIME *time* SCRIPTRC *return-code*)

DOCUMENT *document*

The name of the book being built.

USER *userid*

The user ID of the virtual machine building the book.

DATE *date*

The date when the book was built (it matches the date given by the EOYUE01 exit), in the format *yyyymmdd* (4-digit year, followed by month, followed by day)—for example, 19900702 for July 2, 1990.

TIME *time*

The time when the book was built (it matches the time given by the EOYUE01 exit), in the format *hh:mm:ss* (hours:minutes:seconds)—for example, 10:30:00.

SCRIPTRC *return-code*

The return code received from SCRIPT when it completes its processing.

BookManager BUILD accepts the following return codes from EOYUE03:

Return Code	Meaning
0	Continue
100	Exit
Note: All other return codes are treated as return code 0.	

EOYUE04 Termination Exit

EOYUE04, the termination exit, receives control from the BUILD process just after BookManager BUILD compresses the online book data set and just before it ends. BookManager BUILD invokes EOYUE04 as follows:

EXEC EOYUE04 (DOCUMENT *document* USER *userid* DATE *date* TIME *time*)

DOCUMENT *document*

The name of the book being built.

USER *userid*

The user ID of the virtual machine building the book.

DATE *date*

The date when the book was built (it matches the date given by the EOYUE01 exit), in the format *yyyymmdd* (4-digit year, followed by month, followed by day)—for example, 19900702 for July 2, 1990.

TIME *time*

The time when the book was built (it matches the time given by the EOYUE01 exit), in the format *hh:mm:ss* (hours:minutes:seconds)—for example, 10:30:00.

BookManager BUILD ignores any return codes from EOYUE04.

EDJPRF20 SCRIPT Exits

Each EDJPRF20 SCRIPT user exit can be implemented at the user level or the system level. The user level is checked first. At the user level, BookManager BUILD looks for '&syspref.EOYUE0n.TEXT', and imbeds it if it exists. At the system level, BookManager BUILD checks to see if a data definition name (ddname) exists for EOYUE0n, and imbeds it if it exists.

Each EDJPRF20 SCRIPT user exit is invoked on both SCRIPT passes. You can control what processing is performed on each pass by testing the SCRIPT &\$PASS system symbol.

EOYUE01 Initialization Exit

EOYUE01, the initialization exit, receives control from the EDJPRF20 SCRIPT profile as soon as SCRIPT begins processing.

BookManager BUILD passes the name of the SCRIPT source data set to the user exit. The user exit finds this name in the &*1 SCRIPT symbol.

EOYUE02 Post-Profile Exit

EOYUE02, the post-profile exit, receives control from the EDJPRF20 SCRIPT profile just after the user profile has been processed.

The user profile is the data set name that is specified on the SCRIPT Command Options panel. For example, if you specify SCRIPT.PROFILE(MYPROF) as the **Profile data set**, the user profile '&syspref.SCRIPT.PROFILE(MYPROF)' is invoked from EDJPRF20 SCRIPT. After '&syspref.SCRIPT.PROFILE(MYPROF)' completes, EOYUE02 is invoked. If you do not specify a **Profile data set**, EOYUE02 is invoked after the default profile is called.

BookManager BUILD passes the name of the SCRIPT source data set to the user exit. The user exit finds this name in the &*1 SCRIPT symbol.

EOYUE03 Termination Exit

EOYUE03, the termination exit, receives control from the EDJPRF20 SCRIPT profile just before the SCRIPT source data set name is processed.

BookManager BUILD passes the name of the SCRIPT source data set to the user exit. The user exit finds this name in the &*1 SCRIPT symbol.

_____ End of General-Use Programming Interfaces _____

Appendix. EOYBUILD Member

The following is the EOYBUILD member of the PROCLIB.

```
/**
/** Specify the high-level qualifier (HLQ) where
/** BookManager BUILD/MVS was installed.
/**
/**EOYBUILD PROC HLQ='EOY',
/**
/**
/** Specify the default markup language for your site.
/**
/**   MARKUP='SSGML',
/**
/**
/** Invoke the TSO TMP program and call the BUILD EXEC.
/**
/**BUILDMVS EXEC PGM=IKJEFT01,DYNAMNBR=100,REGION=6M
/**
/**-----
/**
/** Specify the load libraries.
/**
/**   - the BookManager load library,
/**
/**STEPLIB DD DSN=&HLQ..SEOYLOAD,DISP=SHR
/**
/**   - the PostScript Interpreter (if available)
/**
/**       DD DSN=EHY.PSINTERP.EHYLMD1,DISP=SHR
/**
/**   - the CALS conversion library (if available)
/**
/**       DD DSN=EHZ.CALS.EHZLMD1,DISP=SHR
/**
/**-----
/**
/** DCF Macro Libraries:
/**
/**SCRIPTLIB DD DSN=EOY.SEOYMC20,DISP=SHR
/**          DD DDNAME=&MARKUP
/**SSGML DD DSN=EOY.SEOYMC32,DISP=SHR
/**BOOKMGML DD DSN=EDF.R30.EDFLIB,DISP=SHR
/**CALSSGML DD DSN=EHZ.CALS.EHZMLBC,DISP=SHR
/**
/**-----
/**
/** DCF Profiles:
/**
/**USERPROF DD DUMMY
/**SSPROF DD DSN=EOY.SEOYMC32(DSMPROF3),DISP=SHR
/**BMPROF DD DSN=EDF.R30.EDFLIB(EDFPRF30),DISP=SHR
```

```

//CALSPROF DD DSN=EHZ.CALS.EHZMLBC(EHZPROF),DISP=SHR
//*
//*-----
//*
//* SCRIPT User Exits:
//*
//* EOYUE01 DD DSN=SITE.EOYUE01.TEXT,DISP=SHR
//* EOYUE02 DD DSN=SITE.EOYUE02.TEXT,DISP=SHR
//* EOYUE03 DD DSN=SITE.EOYUE03.TEXT,DISP=SHR
//*
//*-----
//*
//* Specify the GDDM symbol libraries.
//*
//ADMSYMBL DD DSN=SYS1.GDDM.GDDMSYM,DISP=SHR
//*
//*-----
//*
//* Public Graphic and Image Libraries:
//*
//*
//ADMGDF DD DDNAME=UGDF
//UGDF DD DSN=SYS1.SITE.ADMGDF <== Site Library
//*
//*
//ADMIMG DD DDNAME=UIMG
//UIMG DD DSN=SYS1.SITE.ADMIMG,DISP=SHR <== Site Library
//*
//*
//CCITTG4 DD DDNAME=UCCITT
//UCCITT DD DSN=SYS1.SITE.CCITTG4,DISP=SHR <== Site Library
//*
//*
//EOYCGM DD DDNAME=UCGM
//UCGM DD DSN=SYS1.SITE.CGM,DISP=SHR <== Site Library
//*
//*
//EPS DD DDNAME=UEPS
//UEPS DD DSN=SYS1.SITE.EPS,DISP=SHR <== Site Library
//*
//*
//PSEG3820 DD DDNAME=U3820
//U3820 DD DSN=SYS1.SITE.PSEG3820,DISP=SHR <== Site Library
//*
//*
//PSEG38PP DD DDNAME=U38PP
//U38PP DD DSN=SYS1.SITE.PSEG38PP,DISP=SHR <== Site Library
//*
//*
//PSEG4250 DD DDNAME=U4250
//U4250 DD DSN=SYS1.SITE.PSEG4250,DISP=SHR <== Site Library
//*
//*-----
//*
//* Specify the location of the REXX EXECs.
//*
//*
//* - the location of the BUILD processes

```

```

/**
/** SYSEXEC DD DSN=&HLQ..SEOYCLIB,DISP=SHR
/**
/**
/** - the CALS conversion routines
/**
/** DD DSN=EHM.EHMSGML.SEHMEXC1,DISP=SHR
/** DD DSN=EHZ.CALS.EHZEXC1,DISP=SHR
/**
/**-----
/**
/** BUILD options data set (site default):
/**
/**BLDOPTND DD DSN=&HLQ..SEOYIPRF(IBMBOOKS),DISP=SHR
/**
/**-----
/**
/** SGMIDCF options data set (site default):
/**
/**SGMLOPTN DD DSN=EHZ.CALS.EHZOPT1(EHZCALST),DISP=SHR
/**
/**-----
/**
/** The PostScript Interpreter 'PS.VM' file (if required):
/**
/**PSVM DD DSN=EHY.PSINTERP.MASTERPS.VM,DISP=SHR
/**
/**-----
/**
/** BookManager message file:
/**
/**MSGFILE DD DSN=&HLQ..SEOYBENU(EOYMSG),DISP=SHR
/**
/**-----
/**
/** CALS CGM->GDF conversion profile (if required):
/**
/**ATTRB DD DSN=EHZ.CALS.EHZTBL1(EHZCGMGD),DISP=SHR
/**
/**-----
/**
/** CALS Module Library (if necessary):
/**
/**ATTRB DD DSN=EHZ.CALS.EHZLMD1,DISP=SHR
/**
/**-----
/**
/** Sysout DDs:
/**
/**SYSTSPRT DD SYSOUT=*
/**SYSPRINT DD DUMMY
/**SYSERR DD SYSOUT=*
/**SYSMSG DD SYSOUT=*
/**SYSIN DD DUMMY
/**

```

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

access. (1) To obtain the possibility to use a computer resource. (T) (2) The manner in which files or data sets are referred to by the computer.

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.

allocation. The process of requesting access to a data set.

allocate. (1) To create a data set. (2) To provide access to a resource, such as a data set, to perform a task.

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

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

ASCII. American National Standard Code for Information Interchange. The standard code, using a coded character set consisting of 7-bit coded characters (8-bits including parity check), used for information interchange among data processing systems, data communication systems, and associated equipment. The ASCII set consists of control characters and graphic characters. (A)

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

B

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.

BookManager. A family of IBM licensed programs that lets users create and display online books. See *BookManager BUILD/MVS*, *BookManager BUILD/VM*, *BookManager READ/DOS*, *BookManager READ/VM*, and *BookManager READ/2*.

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/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.

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 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 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.

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.

CALS initiative. Computer-aided Acquisition and Logistics Support initiative.

CALS Application Feature. One of a set of IBM products that addresses the technical documentation requirements of the U.S. Department of Defense CALS initiative. Its full name is IBM Publishing Systems ProcessMaster CALS Application Feature. See also *Computer-aided Acquisition and Logistics Support initiative*.

cartridge. A storage device that consists of magnetic tape, on supply and takeup 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. Any letter, number, ideogram, or other symbol used for the organization, control, or representation of data.

character display device. (1) A display device that gives a representation of data only in the form of characters. (I) (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*.

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.

Computer-aided Acquisition and Logistics Support (CALS) initiative. The U.S. Department of Defense initiative for the integration of all information about a weapons system into a single data base that can be shared by authorized users. The initial phases of CALS implementation focus on standardizing the format of text, graphic, and image data that occur in technical publications.

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) (3) A standard graphics format for CALS documents.

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

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

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*.

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.

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*.

DisplayGraphics. An IBM licensed program that serves as a full-function, interactive graphics editor for the DOS operating system. It helps users generate graphic charts, text charts, and pictorial drawings, and combine these for presentations and reports.

distribution library. An IBM-supplied partitioned data set on tape containing one or more components that the user restores to disk for subsequent inclusion in a new system.

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

EBCDIC. Extended binary-coded decimal interchange code. A coded character set consisting of 8-bit coded characters. (A)

edit. To alter or refine information, especially text and illustrations, for publication or display.

editor. A person or program that edits.

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.

ENTER. A key on a keyboard that, when pressed, causes information to be submitted to a computer for processing.

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

EXEC. A sequence of TSO commands and control statements in the REXX or CLIST language.

F

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

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*.

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*.

graphics editor. A program that creates or modifies a graphic picture data set.

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.

high-level qualifier. The characters before the first period in a fully qualified data set name. The high-level qualifier can be from 1 to 8 characters.

host system. (1) The data processing system to which a network is connected and with which the system can communicate. (2) The controlling or highest level system in a data communication configuration; for example, a System/370 is the host system for the programmable workstations connected to it.

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*.

image editor. A program that creates or modifies an image picture data set.

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

initialization. Preparation of a system, device, or program for operation.

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

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.

Interleaf Publisher. An IBM licensed program that provides a full-function, integrated professional publishing solution for the IBM PS/2 386-based machines running the DOS operating system. Interleaf is a trademark of Interleaf, Inc.

Interleaf Publisher Data Export Program. An IBM licensed program that is an aid to converting ASCII documents created by the IBM Interleaf Publisher into data sets that can be processed by IBM Publishing Systems BookMaster. Interleaf is a trademark of Interleaf, Inc.

Interleaf Publishing Series RT Data Export Program. An IBM licensed program that is an aid to converting ASCII documents created by the IBM Interleaf Publishing Series RT Edition into data sets that can be processed by IBM Publishing Systems BookMaster. Interleaf is a trademark of Interleaf, Inc.

Interleaf Publishing Series RT Edition. An IBM licensed program that provides a full-function, integrated professional publishing solution, including multiple-language capability, for the IBM RT System. Interleaf is a trademark of Interleaf, Inc.

invoke. To start a command, procedure, or program.

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

job. (1) A unit of work defined by a user that is to be accomplished by a computer. Loosely, the term job is sometimes used to refer to a representation of a job. This representation may include a set of computer programs, files, and control statements to the operating system. (l) (A) (2) A collection of related programs, identified by appropriate job control statements.

K

keyword. A name or symbol that identifies a parameter. See also *parameter*.

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.

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*. See *synonym dictionary*.

low-level qualifier. The last qualifier in a data set name, after the last period. For example, for the data set *johnson.finance.script(finmst)*, the low-level qualifier is *script*. (The member name, *finmst*, is enclosed in parentheses.)

M

MACLIB. A macro library; a library of macrodefinitions used during macroexpansion.

macro. An instruction in a source language that is to be replaced by a defined sequence of instructions in the same source language. In ISPF, a macro is a program that customizes the ISPF/PDF editor. In DCF, SCRIPT/VS replaces a macro in a source file with a macrodefinition containing control words, symbols, text, and GML markup.

macrogeneration. An operation in which an assembler produces a sequence of assembler language statements by processing a macrodefinition called by a macroinstruction. Macrogeneration takes place at preassembly time.

macrolibrary. A library of macrodefinitions used during macrogeneration.

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 or CALS SGML tags, attribute labels and values, and control words.

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

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/ESA* and *MVS/XA*.

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/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.

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. An online book usually has a low-level qualifier of BOOK.

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, IBM Personal Computer XT Model 286, and IBM Personal Computer AT. OS/2 Standard Edition is intended for environments that do not have extensive communications or data base requirements. OS/2 Extended Edition provides intersystem communications, improved connectivity, terminal emulation, and access to shared network resources.

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

options data set. A data set containing the BUILD or SCRIPT options to be executed when a book is built.

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 it is included in.

parameter. A variable used in conjunction with a command to affect its result.

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. See also *member*.

PDF. Program Development Facility

PDS. Partitioned data set.

Personal Computer AT. An IBM personal computer system designed for professional applications and office environments.

Personal System/2 (PS/2). A family of IBM personal computer systems ranging from a low-price, general-purpose computer system offering approximately two times the processor performance of 8088-based IBM Personal Computers up to high-performance systems that support advanced multitasking and multi-user applications and network services.

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

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*.

process. (1) In data processing, the course of events that occurs under the execution of all or part of a program. (T) (2) Any operation or combination of operations on data.

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.

profile. A set of characteristics that defines the way the system processes information.

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

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.

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

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*.

S

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.

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*.

search index. See *bookshelf search index*.

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

SGML. Standard Generalized Markup Language.

SGML Translator DCF Edition. 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*.

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.

subsystem. A secondary or subordinate system, usually capable of operating independently of, or asynchronously with, a controlling system. (T)

symbol. A name in a SCRIPT source file that is replaced during processing with a number, a character string, a control word, or another symbol.

synonym dictionary. A compilation of root words for a given language that allows users to search for information in that language. One use of a linguistic dictionary is as a synonym dictionary. See *linguistic dictionary* and *synonym dictionary language*.

synonym dictionary language. The language of the synonym dictionary to be used in a search. BookManager READ displays the synonyms of the words in the indexed books on a bookshelf when a search is performed. See *synonym dictionary*.

syntax. The rules governing the structure of commands and their parameters. In which the parts of an operating system are stored.

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

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.

tailor. A process that defines or modifies the characteristics of a system or a document. See also *customize*.

target library. The data sets that contain the executable code for a product.

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

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.

TextTagger Feature. A feature of IBM Publishing Systems ProcessMaster that produces data sets containing markup for BookMaster, GML Starter Set, or CALS SGML. TextTagger reads the input data sets, recognizes elements of the source files (such as paragraphs, headings, and lists), and produces output containing the appropriate tags associated with each element. Its full name is IBM Publishing Systems ProcessMaster TextTagger Feature.

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

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 heading. The title of a section in a book. The heading is displayed following the topic identifier at the top of the panel for that topic.

trace. The process of recording the sequence in which the statements in a program are executed and, optionally, the values of the program variables used in the statements.

TSO. 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.

user exit. A point in BookManager execution where a user routine, if it exists, will take control.

user ID. A shortened form of user identification.

user identification. A string of characters that uniquely identifies a user to a 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.

VM/SP. Virtual Machine/System Product.

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

W

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

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