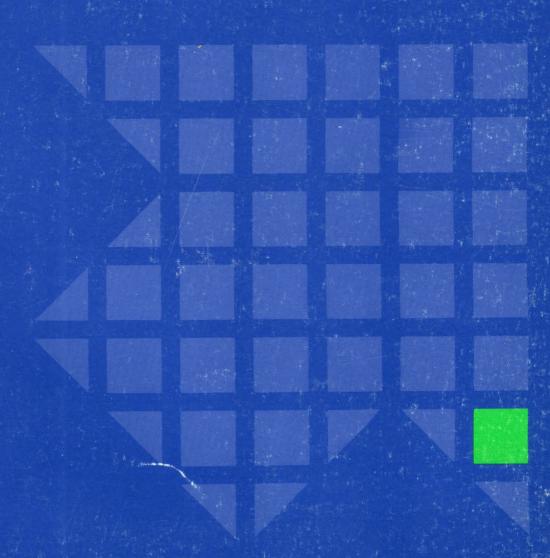


Virtual Machine/Extended Architecture System Product

**Using Online Documentation** 

VM/XA SP Release 2.1



GC23-0522-1



Virtual Machine/Extended Architecture System Product

# **Using Online Documentation**

VM/XA SP Release 2.1

#### Second Edition (December 1989)

This is a major revision of, and obsoletes, GC23-0522-0.

This book describes the online documentation features of VM/XA SP2.1, an IBM licensed program (Program Number 5664-308). Changes are made periodically to the information herein; before using this publication in conjunction with the operation of IBM systems, consult the latest IBM System/370, 30xx, 4300, and 9370 Processors Bibliography, GC20-0001, to find out which editions are applicable and current.

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VM/XA

Virtual Machine/Extended Architecture

BookManager

BookMaster

DrawMaster

**GDDM** 

ProcessMaster

## **About This Book**

This book describes the online documentation provided with the Virtual Machine/Extended Architecture System Product Release 2.1 (VM/XA SP2.1) product. This documentation is of two types:

- Base documentation that is provided with the product when it is shipped
- Program update information that becomes available from time to time during the life of the product.

The online feature of VM/XA SP2.1 contains both the nonlicensed books from the base library and any program update information manuals that are available.

**Note:** During the life of this product, new program update information may become available. Periodic updates to the feature tapes will be made containing the added information.

Throughout this book, **online** means information made available in machine-readable form that can be searched and viewed at a display terminal. For the definitions of the terms used in this guide see "Terms Used in This Book."

The SP2.1 online library is available in two forms:

- Source files containing text and art that can be formatted for either printing or display
- BOOK files formatted to be displayed using the BookManager Read program product.

This booklet covers both forms. It is **not** designed to make you an expert in using online information, or in using the other products that are associated with using online information. Instead, this book should serve as a quick guide to more detailed sources of information. A bibliography at the end of this book provides a list of the manuals associated with each of the products that may be used with online documentation.

**Note:** This manual is available in two forms: as a printed book, and as one of the online books on tape. Because of this, the online version of the book may contain additional information that could not be included in the printed version, and should be considered the more current one.

## **Who Should Use This Manual**

This manual is intended to be used by those people who are responsible for receiving and installing the online information from IBM.

### **Terms Used in This Book**

A number of IBM products are mentioned in this guide. In addition, there may be some unfamiliar terms used. These products and terms are defined below.

Term

**Definition** 

**ADMGDF** 

A file used by GDDM to store a graphics picture in GDDM's graphics data format (GDF).

**ADMIMG** A file used by GDDM to store an image picture in

GDDM's standard image format.

**BookManager** A family of program products (BookManager BUILD

and BookManager READ) that lets you create and

display online books.

BookManager BUILD A program product that creates online books from

SCRIPT source files.

**BookManager READ** A program product that allows you to search, read, and

annotate online books.

**BookMaster** A generalized markup language that is more extensive

than the GML Starter Set.

control word In SCRIPT, an instruction that causes a certain format-

ting result.

**DrawMaster** A program product that creates and edits graphics data.

**DCF** Document Composition Facility. An IBM licensed

program for formatting documents for printing. It works

with BookMaster.

**GDDM** Graphical Data Display Manager. An IBM licensed

program for displaying graphical information on termi-

nals.

**GML** Generalized Markup Language (GML). A language used

to identify the elements of a source document without

respect to specific formatting.

**GRAFFILE** A file created by a graphics editor like DrawMaster that

contains the information needed to display one picture.

Online Available interactively at a computer display device.

**ProcessMaster** An IBM licensed program that allows easy access to a

wide variety of other IBM programs, such as BookMaster

and DCF.

**PSEG** An object containing composed text and images, prepared

before formatting and included in a document by

SCRIPT.

**SCRIPT** A file type used by DCF to contain textual information

including GML and BookMaster tags.

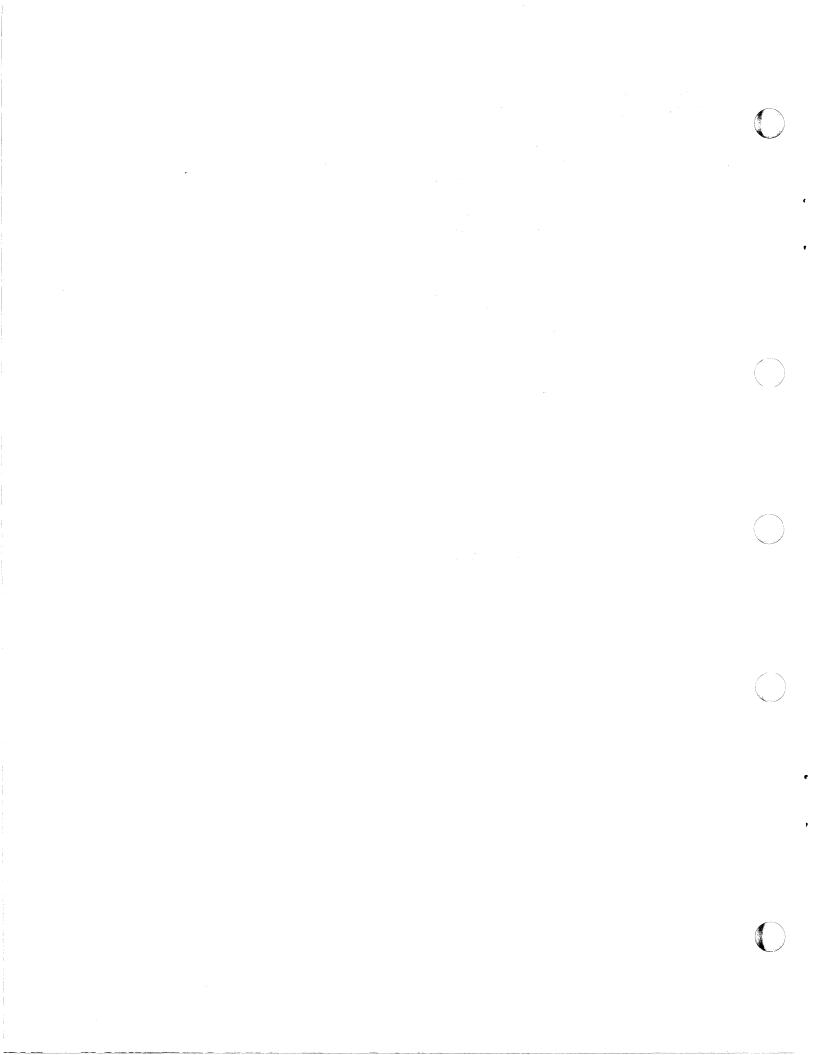
tag In GML markup, a name for a type of document or docu-

ment element. For example, :p might be the tag used to

identify a paragraph.

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## VM/XA SP Books Shipped

Table 1 and Table 2 on page 2 list the manuals shipped as part of the online features that are from the Virtual Machine/Extended Architecture\* System Product (VM/XA\* SP) Release 2.1 library. These tables show the form number for each manual, the master file name, and the tape file number. Table 2 on page 2 lists the program update information manuals, that update one or more books in the base library.

How the names are formed that are under "Master File Name" is explained in more detail in "How Books Are Organized" on page 4.

Note: In the following table, titles marked with an asterisk contain minor editorial changes

Book	Form Number	Master File Name	Tape File
Using Online Documentation*	GC23-0522	LABZMST	1
Application Development Guide for FORTRAN and COBOL*	SC23-0369	LAA0MST	2
CMS Application Program Conversion Guide*	SC23-0403	LAAIMST	3
CMS Application Program Development Guide*	SC23-0355	LAA2MST	4
CMS Application Program Development Reference*	SC23-0402	LAA3MST	5
CMS Command Reference	SC23-0354	LAA4MST	6
CMS User's Guide	SC23-0356	LAA5MST	7
Conversion Notebook	SC23-0357	LAA6MST	8
CP Command Reference	SC23-0358	LAA7MST	9
CP Programming Services	SC23-0370	LAA8MST	10
Directory of Programming Interfaces for Customers	GC23-0434	LAAAMST	11
Dump Viewing Facility Operation Guide and Reference	SC23-0433	LAABMST	12
EXEC 2 Reference	SC23-0361	LAACMST	13
GCS Command Reference	SC23-0433	LAAEMST	14
General Information	GC23-0362	LAADMST	15
Installation and Service*	SC23-0364	LAAFMST	16
Library Guide, Glossary, and Master Index	GC23-0367	LAAGMST	17
Planning and Administration*	GC23-0378	LAAHMST	18
Real System Operation	SC23-0371	LAAKMST	19
System Messages and Codes Reference	SC23-0376	LAALMST	20
System Product Editor Command and Macro Reference	SC23-0372	LAANMST	21

Table 1 (Page 2 of 2). VM/XA SP2.1 Base Library Books Shipped on Tape			
Book	Form Number	Master File Name	Tape File
System Product Editor User's Guide	SC23-0373	LAAOMST	22
System Product Interpreter Reference	SC23-0374	LAAIMST	23
System Product Interpreter User's Guide	SC23-0375	LAAJMST	24
Virtual Machine Operation	SC23-0377	LAAMMST	25
Guide to Saved Segments	SC23-0457	LAAZMST	26
CMS Primer	SC23-0368	LABYMST	27
Release Guide	GC23-0510	LAB9MST	28

Table 2. Program Update Information Manuals Shipped on Tape			
Book Master File Name Tape File			
Serviceability Enhancements APAR VM37518 GC23-0503 LABCMST 29			

Table 3 lists the books not included in the online VM/XA SP2.1 library.

Table 3. VM/XA SP2 Books not Shipped as Online Information		
Book	Form Number	
CMS Data Areas and Control Blocks	LY27-8051	
CMS Diagnosis Reference	LY27-8052	
CP Data Areas and Control Blocks	LY27-8053	
CP Diagnosis Reference	LY27-8054	
Diagnosis Guide	LY27-8056	
Feature Summary	LY27-8058	
GCS Diagnosis Reference	LY27-8060	
Licensed Program Specifications	GC23-0366	
Quick Reference	SX23-0391	

#### Differences Between Online Books and Printed Manuals

Because of the differences between printed and online books, certain features of the printed manuals are not present in the online versions. These differences are summarized below:

- Library Guide, Glossary, and Master Index is printed in 2-column format, but is displayed online in one column. The foldout page at the end of the printed book is not reproduced in the online version.
- System Messages and Codes is printed in 2-column format, but is displayed in 1-column format.
- CP Programming Services appendixes A, B, and C must be printed using a lineprinter, for example a 3800 model 1. These appendixes cannot be displayed using BookManager\*.
- The reference card at the back of the CMS Primer is not included in the online information.

## **What is On the Distribution Tapes**

Online documentation for VM/XA SP2.1 is available in two forms:

- Source files
- BookManager displayable files.

Both features are available on tape. Displayable files are shipped to all customers. For information on ordering the source feature, see your IBM marketing representative.

Each tape contains all of the books listed in Table 1 on page 1, but in different formats. The source tape contains SCRIPT files, which contain text, GRAFFILEs (the online art files created by DrawMaster\*), PSEG3820 files (the printable versions of the GRAFFILEs), and ADMGDF files (the displayable versions of the GRAFFILEs).

The BookManager tape contains files with the filetype of BOOK. These are the displayable versions of the manuals.

Both tapes are created with the VMFPLC2 command.

## **Tape Arrangement**

Each feature tape is arranged in the following order:

- Tape file 1—The Memo to Users, which includes the files for Using Online Documentation, and a list of all the files contained on the tapes, VMXASP21 PARTLIST.
- Tape files 2 to 29—Book files. Each tape file contains all the files for a particular book. See Table 1 on page 1 and Table 2 on page 2 for their order.

## Removing the Files from the Tape

The files may be removed from the tapes with the CMS VMFPLC2 LOAD command. To load a specific book you should position the tape at the correct tape file and use VMFPLC2 LOAD \* \* n, where n is the filemode of the disk where the files are to be loaded.

### **Space Requirements**

Each source version of a book is made up of a different number of files. The displayable version of any book has only one file associated with it. The source SCRIPT and art files require approximately 200 cylinders of 3380 disk storage, in 4kb blocks, or the equivalent. The BOOK files require approximately 100 cylinders of 3380 disk storage.

For information on the names of the files that make up each book see the VMXASP21 PARTLIST file, which is in the first tape file on the feature tapes.

## **How Books Are Organized**

Each book has a similar physical layout. A book is made up of one master file, for example LAA1MST. Within this file are the BookMaster\* macro tags for imbedding all of the other files that make up the book, such as LAA1PRE and LAA1GLO. Most books have only one level of imbedding, but some may have additional levels.

### **Naming Conventions**

All of the books in the library follow a naming convention. All of the files associated with a particular book begin with the same 4-character code. The next four positions of the filename are used to identify the particular file. For example, all the files associated with *CMS User's Guide* begin with the characters LAA5. The master file for *CMS User's Guide* is LAA5MST.

#### **Common Filenames**

The last four characters in the names of certain types of files are common throughout the SP2.1 library. Table 4 lists these files and describes their function.

Table 4. Common VM/XA SP2 Filenames		
Filename	Purpose	
xxxxMST	The master file. Other files are imbedded here.	
xxxxSET	The setup file, containing control information.	
xxxxPRE	The preface	
xxxxBIB	The bibliography	
xxxxSOC	The summary of changes	
xxxxGLOS	The glossary	
xxxxLIB1	The first half of the VM/XA SP2.1 library diagram	
xxxxLIB2	The second half of the VM/XA SP2.1 library diagram	

Not all books contain all of these pieces of information, but those that do will follow this naming convention.

### **Filetypes**

The filetype for online files may be one of several kinds, based on the contents of the file. The filetypes are important because the various programs expect certain filetypes. For instance, BookManager expects the filetype BOOK for displayable files. Table 5 describes the various filetypes and their contents.

Table 5. Soft Copy Filetypes		
Filetype	Purpose	
SCRIPT	Text source files, containing SCRIPT control words and BookMaster tags	
GRAFFILE	DrawMaster art source files	
PSEG3820	The printable version of a GRAFFILE	
ADMGDF	The BookManager viewable version of a GRAFFILE	
ADMIMG	The displayable version of a scanned image	
воок	The BookManager viewable file	

## **Using Online Information**

Online information may be used in a number of ways. For instance, you may want to use portions of several books in the VM/XA SP2.1 library to produce a "runbook" of essential information for computer operators. You may also wish to add new information to match your own facilities. Copies of these books may be printed as the need arises. Finally, using the BookManager product, BOOK files may be displayed on terminals, allowing quick access to the information in the entire library.

#### **How to Tailor Books**

The information on the source feature tape may be tailored to meet your specific needs. Once you have changed the SCRIPT files, you may either reprint the manual using BookMaster, or rebuild a displayable version using BookManager. The GRAFFILE may be edited using DrawMaster, and new PSEG3820 or ADMGDF files may be created from it. The different filetypes require different editors. The table below lists the editors needed for each filetype.

Table 6. Source File Editors		
Filetype	Editor	
SCRIPT	Any text editor such as XEDIT or ISPF/PDF to add the SCRIPT and BookMaster tags. (See note.)	
GRAFFILE	DrawMaster or another graphics editor. The new file may be converted to a PSEG38xx or ADMGDF file using DrawMaster.	
воок	Cannot be edited	
ADMGDF	Cannot be edited	
ADMIMG	Cannot be edited	

Note: SP2.1 books contain two forms of art: DrawMaster-generated GRAFFILEs, and character graphics. Character graphics are contained within the SCRIPT files, but they cannot be edited using normal text editors. In order to display and edit these pieces of art successfully you will have to use the ProcessMaster\* character graphics editor. See *IBM Publishing Systems*ProcessMaster Character Graphics Editing, SC34-5036, for more information.

#### **How to Print Books**

The way you print manuals from the source SCRIPT files depends on the way your individual site has configured your system. In general, the command to format and print a book from SCRIPT files is:

**SCRIPT** file-id (options ...

The options that you use will depend upon what sort of printer the output is directed to. Remember that the VM/XA SP2.1 books have been written with BookMaster tags. This means that BookMaster must be installed for the books to format correctly. Although BookMaster can produce output for a number of different devices, the SP2.1 library has been created for printing on an all points addressable device, such as a 3820 page printer. Art created with page segments cannot be printed on non-all points addressable printers, such as the 3800 mod 1. Different page sizes for different printers may also determine how the books look. You should consult the BookMaster manual to determine which printers BookMaster supports.

## **How to Display Books**

The BOOK files from the BookManager feature tape may be viewed using the BookManager READ licensed program. To begin using BookManager READ you should issue the following command:

#### **BOOKMGR**

BookManager READ is meant to allow you to use online books in the same way that you have always used printed information. For more information on using BookManager READ see "BookManager READ" on page 10. Although BookManager READ can be used on any terminal that is supported by GDDM\*, different terminals have different display characteristics. You may not achieve identical results when viewing books on different devices.

## **How To Build Books**

If you are going to use BookManager BUILD to prepare displayable files for viewing, you must have access to the SCRIPT source files. You must have DCF for books using SCRIPT control words and starter set GML tags. If you are going to build IBM-supplied books, you will also need the BookMaster program product.

The basic command to build a book is:

BUILD file-id (options...

For more information on building books see "BookManager BUILD" on page 10.

## **Product Information**

The following lists of books will help you better understand the various products that can be used with online information. These manuals should be consulted for all technical questions regarding the individual products. These lists are not meant to be exhaustive. In all cases, the bibliographies provided with each product should be consulted for additional information.

## **Document Composition Facility**

- IBM Document Composition Facility: SCRIPT/VS Language Reference, SC34-5008
- IBM SCRIPT Mathematical Formula Formatter User's Guide, SH20-6453
- Text Programmer's Guide, SH35-0069
- General Information, GH20-9158
- Generalized Markup Language Starter Set User's Guide, SH20-9186
- GML Starter Set Reference, SH20-9187
- GML Starter Set Implementation Guide, SH35-0050
- GML Concepts and Design Guide, SH20-9165
- DCF Diagnosis Guide, SY35-0067
- DCF Messages, SH35-0048.

## **BookMaster**

- IBM Publishing Systems BookMaster General Information, GC34-5006
- IBM Publishing Systems BookMaster User's Guide, SC34-5009
- IBM Publishing Systems BookMaster Creating Named Styles, SC34-5008.

## **ProcessMaster**

- IBM Publishing Systems ProcessMaster General Information, GC34-5031
- IBM Publishing Systems ProcessMaster Editing, SC34-5035
- IBM Publishing Systems ProcessMaster Character Graphics Editing, SC34-5036
- IBM Publishing Systems ProcessMaster User's Guide, SC34-5033.

## **DrawMaster**

- IBM Publishing Systems DrawMaster General Information, GC34-5021
- IBM Publishing Systems DrawMaster Introduction, SC35-5023
- IBM Publishing Systems DrawMaster User's Guide and Reference, SC34-5022.

## **BookManager**

• BookManager General Information, GC23-0447.

### **BookManager BUILD**

- Installation and Customization, SC23-0451
- Preparing Online Books, SC23-0450.

### **BookManager READ**

- Getting Started and Command Summary, SC23-0448
- Displaying Online Books, SC23-0449
- Installation and Customization, SC23-0455.

## **Additional Information**

- GDDM, Version 2, Release 1 Base Programming Reference, SC33-0332
- GDDM, Version 2, Release 1 Guide for Users, SC33-0327
- APL2 Programming: System Services Reference, SH20-9218
- APL2 GRAPHPAK: User's Guide and Reference, SH20-9230.

Virtual Machine/Extended Architecture System Product Release 2.1 Reader's Comment Form

**Using Online Documentation** 

Order Number: GC23-0522-1

This manual is part of a library that serves as a reference source for systems analysts, programmers, and operators of IBM systems. You may use this form to communicate your comments about this publication, its organization, or subject matter, with the understanding that IBM may use or distribute whatever information you supply in any way it believes appropriate without incurring any obligation to you. Your comments will be sent to the author's department for whatever review and action, if any, are deemed appropriate.

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ion?		
publication?	***********	
<ul> <li>□ As an introduction</li> <li>□ As a user's guide</li> <li>□ As a reference manual</li> </ul>		As a textbook (student) As a textbook (instructor) For another purpose (explain)
		tion, presentation, or writing in this manual? Helpful ons, deletions, and clarifications; specific errors and
Comment:		
L (if any) for this publication:		
ive your name and address:		
rving you:		
	publication?  n  anual especially like or dislike about the orga eral usefulness of the book; possible add  Comment:  (if any) for this publication:  ive your name and address:	publication?  n  anual  especially like or dislike about the organizateral usefulness of the book; possible addition  Comment:  (if any) for this publication:  ive your name and address:

Thank you for your cooperation. Please give this form to your IBM branch office or IBM representative who will be happy to forward your comments directly to the address on the other side.

## **Reader's Comment Form**

GC23-0522-1

Fold and Tape

Please Do Not Staple

Fold and Tape

Affix the Necessary Postage Here

International Business Machines Corporation Department 52Q MS 511 Neighborhood Road Kingston, New York 12401

Please Do Not Staple

Fold and Tape

Fold and Tape

GC23-0522-1

