Information Roadmap

Version 1  Release 11
Information Roadmap

Version 1  Release 11

This is a major revision of SA22-7500-11

This edition applies to Version 1 Release 11 of z/OS (5694-A01), and to all subsequent releases and modifications until otherwise indicated in new editions.

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About this document

z/OS® is the 'On Demand' mainframe operating system. It is an advanced-technology, enterprise-wide server operating system.

This document supports z/OS (5694-A01); it describes the information for the base elements and optional features included in z/OS.

How to use this document

For an explanation of how to obtain and use z/OS documents, see Chapter 1, “Ordering, accessing, and printing z/OS documentation,” on page 1, which describes the information available with z/OS.

For descriptions of the documents associated with z/OS elements and features, see Chapter 2, “z/OS document descriptions,” on page 11. The document descriptions can help you become familiar with the information included with z/OS and how it is organized.

For a list of the titles and order numbers of the z/OS documents, see Table 1 on page 55.
Summary of changes

Summary of changes for SA22-7500-12 z/OS Version 1 Release 11

This document contains information previously presented in z/OS Information Roadmap, SA22-7500-11, which supports z/OS Version 1 Release 10.

The following summarizes the changes to that information.

New information

A new book has been added to the Communications Server library:

A new book has been added to the Open Systems Adapter library:

Changed information

DFSMsdss Storage Administration Guide has been retitled to DFSMsdss Storage Administration.

DFSMshsm Storage Administration Guide has been retitled to DFSMshsm Storage Administration.

DFSMS Storage Administration Reference has been retitled to DFSMsdfp Storage Administration. Additionally, some information from this book has been moved:
- DFSMsdss section (Part 2) is moved into DFSMsdss Storage Administration.
- DFSMshsm section (Part 3) is moved into DFSMshsm Storage Administration.
- DFSMsdfp section (Part 1) remains in the current book, DFSMsdfp Storage Administration.

Deleted information

The following books have been removed from the library:
- C/C++ Legacy Class Libraries Reference, SC09-7652.
- z/OS Integrated Security Services LDAP Client Programming, SC24-5924
- z/OS Integrated Security Services LDAP Server Administration and Use, SC24-5923

Summary of changes for SA22-7500-11 z/OS Version 1 Release 10

This document contains information previously presented in z/OS Information Roadmap, SA22-7500-11, which supports z/OS Version 1 Release 9.

The following summarizes the changes to that information.

New information
A new book has been added to the MVS library to provide capacity provisioning information:
- z/OS MVS Capacity Provisioning User’s Guide, SC33-8299

A new book has been added to the IBM Tivoli Directory Server library to provide information on writing Lightweight Directory Access Protocol (LDAP) client applications:
- IBM Tivoli Directory Server Plug-in Reference for z/OS, SA76-0148

A new book has been added to the Infoprint Server library that describes the Infoprint Server Printer Inventory for Print Services Facility (PSF):
- z/OS Infoprint Server Printer Inventory for PSF, S510-7703

A new book has been added to the JES library to provide application programming information for both JES2 and JES3:
- z/OS JES Application Programming, SA23-2240

A new book has been added to the Language Environment library to provide migration information for Enterprise COBOL for z/OS:
- Enterprise COBOL for z/OS Migration Guide, GC23-8527

**Changed information**

In z/OS Communications Server: IP Configuration Guide, SC31-8775, we have reorganized information for two heavily used applications, FTP and Telnet. To enhance usability, we have restructured much of this information into tasks and supporting conceptual information.

z/OS Communications Server: IP Network and Application Design Guide, SC31-8885, is also being restructured to provide more task-oriented and descriptive information.

Some information from existing JES books has been moved to the new book, z/OS JES Application Programming:
- From z/OS JES2 Initialization and Tuning: "JES2 Spool Data Set Browse" in Appendix B and Appendix C, “The External Writer”.
- From z/OS JES3 Initialization and Tuning: Appendix A, “The External Writer”.
- From z/OS MVS Using the Subsystem Interface: Chapter 4, “JES Client/Server Print Interface”.

**Deleted information**

The following books have been removed from the library:

z/OS MVS™ Data Areas, Volumes 1–5. MVS data areas will not be produced as formal books, but will be posted to the Web instead so that more timely updates can be made.

**Summary of changes for SA22-7500-10 z/OS Version 1 Release 9**

This document contains information previously presented in z/OS Information Roadmap, SA22-7500-09, which supports z/OS Version 1 Release 8.

The following summarizes the changes to that information.
New information

A new book has been added to the Cryptographic Services library to provide information about writing PKCS 11 applications:
• **z/OS Cryptographic Services Writing PKCS 11 Applications, SA23-2231**

A new book has been added to support the new z/OS element, METAL C Runtime Library:
• **z/OS Metal C Programming Guide and Reference, SA23-2225**

Two new books have been added to support the new z/OS element, REXX Alternate Library:
• **IBM Compiler and Library for REXX on System z: User’s Guide, SA23-2234**
• **IBM Compiler and Library for REXX on System z: Diagnosis Guide, SA23-2235**

Deleted information

• **z/OS Communications Server: APPC Application Suite User’s Guide, SC31-8809**
• **z/OS Communications Server APPC Application Suite Administration, SC31-8835**
• **z/OS Communications Server: APPC Application Suite Programming, SC31-8834**
• **z/OS Security Server Firewall Technologies Guide and Reference, SC24-5922**
Chapter 1. Ordering, accessing, and printing z/OS documentation

The following topics explain how you can obtain z/OS information on the Internet, and in softcopy or hardcopy.

Access to online information

Accessing z/OS documents on the Internet

z/OS documentation is available on the Internet in BookManager® and PDF format at:

http://www.ibm.com/systems/z/os/zos/bkserv/

Library Center for z/OS

IBM is providing an alternative way to navigate our z/OS library on the Internet. The Library Center for z/OS provides a Windows Explorer-like view of the contents of the entire z/OS and Software Products DVD Collection. The Library Center uses the new IBM Library Server (formerly BookManager BookServer) with new advanced search functions to help you find exactly the z/OS information you need.

The Library Center offers:

- Easier navigation: When opened, the Library Center presents a left-hand navigation frame that lets you visually navigate the entire repository (over 2000 manuals). You can expand each shelf to see all the books in that shelf and expand each book to see all the topics.

- New advanced search features: A search scope pull-down on the Library Center lets you search the entire repository, a particular shelf, or a specific book. In addition, new advanced searches let you search by information type. For example, you can search only on messages or commands. This new function will be expanded over time to other information types, such as PARMLIB statements and macros.

- Available single frame navigation: A single frame mode makes the new Library Center more accessible to people using screen readers, such as the IBM Homepage Reader.

- Integration of BookManager with PDF: The Library Center provides even better integration between BookManager and PDF file formats than the z/OS Internet library. If a book is available in both, you can choose which one you want to open by clicking the appropriate symbol in the table of contents.

- A portal to other information: An IBM Redbooks bookshelf lets you perform a BookManager search and locate a corresponding Redbooks in PDF format. The search scope pull-down lets you launch searches in other repositories such as the WebSphere Application Server for z/OS or Google.

- Built-in handheld support: The Library Center also provides a handheld mode to support both connected and disconnected handhelds.

For more information about the z/OS Library Server and the Library Center, see Library Server: Getting Started.

Cross-book linking among z/OS books

z/OS books include softcopy links that let you jump directly from one softcopy book to another. While reading a z/OS book, you can place the cursor under the
highlighted title of a referenced z/OS book and click the mouse or press Enter to open that book. After searching and reading the related material, you can close the referenced book to return to the original book. For example, Chapter 2, “z/OS document descriptions,” on page 11 contains links to the softcopy books that it describes.

Cross-book linking works for z/OS books in both BookManager and PDF format. For PDFs, the links are indicated by blue highlighting around a document or topic reference, and the linking PDFs must be in the same directory. For BookManager, cross-book linking is supported by BookManager READ/MVS on z/OS. The linked books must be uploaded to z/OS and must be located on the same bookshelf.

Cross-book linking also works among z/OS PDFs and BookManager books (served by Library Server) on the z/OS Internet library. Links on the z/OS Internet library work across elements and bookshelves. If several versions of a target book exist on the Internet library, Library Server lets you select the version you want.

Cross-book linking for PDFs and book files on CD-ROMs or DVD also works among the books on the same disc or DVD.

PDFs link to each other by file name, and IBM® changes a book’s file name whenever the document is updated. Thus a link from an unchanged PDF may not connect to a new edition of a target book, because the new edition has a new file name. However, a link from an unchanged PDF will still connect to its original target book. Therefore, if you maintain your own PDF repository, IBM recommends that you keep multiple levels of PDFs together in the same directory, to minimize unresolved links. By contrast, BookManager documents link to each other by their base order numbers, which stay the same from release to release, so an unchanged BOOK file can link successfully to an updated target BOOK file, as long as they are on the same bookshelf.

Another fact about linking with PDFs: when you link from one PDF to another and press the Adobe Reader’s back navigation button, you return to the original spot in the first PDF. If you make the same link within a browser on the Internet, the browser’s back button takes you to the cover of the first PDF. With Library Server, however, the back button in a browser will take you back to the original spot in the first book.

Documents on the DVD collection

You can purchase the following DVD collection individually, or when you order z/OS you can purchase it by subscription.

- z/OS Version 1 Release 11 and Software Products DVD Collection,
  SK3T-4271

  Includes, on DVD rather than CD-ROM, libraries for a single release of z/OS plus libraries for multiple releases of related software products that run on z/OS. It also includes selected IBM @server zSeries® Redbooks®. The documents are provided in both BookManager and PDF formats when available. This comprehensive DVD collection is a combination of the z/OS Version 1 Release 11 Collection and the z/OS Software Products Collection with selected Redbooks from the IBM @server zSeries Redbooks Collection. This collection also includes the contents of the zFavorites for zSeries CD (see below for details). When you order the collection as a feature of z/OS, you receive a continuing subscription for a one-time price. The continuing subscription price includes automatic shipment of all updates made while the product version is orderable.
Documents on CD-ROM collections

When you order z/OS, you automatically receive the:

- **z/OS Version 1 Release 11 Collection**, SK3T-4269, containing unlicensed documents for z/OS in BookManager and PDF formats. This collection includes documents for only one release of the z/OS element and feature libraries. It is updated once for each release.

  The product libraries included in this collection contain the latest updates of the books available when the collection was produced. Some books and bookshelves have not been updated since the previous release of z/OS and are still valid for the current release of the product. Unchanged books and bookshelves list the version and release in which they were last updated.

- The **z/OS Collection** does not include documents for the software products that run on z/OS. **z/OS Software Products Collection**, which you may purchase, contains documents for the software products that run on z/OS.

  In addition, you can purchase the following collections individually, or when you order z/OS you can purchase them by subscriptions. Purchasing a subscription entitles you to automatic shipment of all updates to the collection as long as z/OS Version 1 is orderable. If you purchase an individual copy of a collection, you do not get updates to it. Individual copies are priced lower because you receive only one edition of the collection.

- **z/OS Software Products Collection**, SK3T-4270

  Includes libraries for multiple releases of related software products that run on z/OS. All documents are provided in BookManager format and in PDF format, when available. When you order the collection as a feature of z/OS, you receive a continuing subscription for a one-time price.

- **z/OS Security Server RACF® Collection**, SK3T-4272

  Includes z/OS Security Server and other software product documents that contain significant information about z/OS Security Server RACF in one package. The z/OS Security Server documents are provided in PDF and BookManager formats; the other documents are provided in BookManager format only. This collection also includes other materials of interest to the RACF Security Administrator. When you order the collection as a feature of z/OS, you receive a continuing subscription for a one-time price.

- **IBM @server zSeries Redbooks Collection**, SK3T-7876

  Includes IBM Redbooks that apply to the zSeries platform and to host networking. The documents are arranged into subject bookshelves such as “Application Development zSeries Redbooks” and “Networking zSeries Redbooks.” When you order the collection as a feature of z/OS, you receive a continuing subscription for a one-time price.

zFavorites for zSeries CD

To find the most popular z/OS and zSeries information on the Web, order a copy of:

- **zFavorites for zSeries**, GK3T-4331

  A mini-CD full of Internet links, the zFavorites for zSeries CD connects you to the most popular z/OS and zSeries Web sites, including the LookAt and wizards sites for interactive help and configuration dialogs. zFavorites also points to helpful information sites by categories such as products, product documentation, software and solutions, support and more. A copy of the zFavorites CD is
Viewing and printing z/OS softcopy documents

There are a number of ways that you can view and print z/OS information, depending on your needs and what facilities are available to you. IBM provides the z/OS Collection and the z/OS and z/OS Software Products DVD Collection, which contain BookManager and PDF formats of the z/OS documents. Both softcopy formats (as well as additional documents and information) are also available from the z/OS Internet library at:

http://www.ibm.com/systems/z/os/zos/bkserv/

A BookManager softcopy document is the same file, regardless of the BookManager product or the operating system that you are using. The z/OS product includes both BookManager READ and Library Server (formerly BookManager BookServer) as base elements.

You can view and print PDF files using the Adobe Reader available free on the Internet at: http://www.adobe.com/prodindex/acrobat/.

The method that you use to access and print documents or sections of documents will depend on whether your company has established its own softcopy repository of IBM information, or whether you are accessing the information on the Internet or from CD-ROM.

Viewing softcopy information

Here are some common methods that you can use to view z/OS softcopy information.

- If your company has established a softcopy repository on z/OS:
  - BookManager READ/MVS allows users on the z/OS system to access and read documents.
  - Library Server (BookManager BookServer) allows users to access and read documents over an Internet or intranet connection using an HTML browser.

- If you are accessing the information from IBM’s z/OS Internet library:
  - Almost all of the z/OS documents are provided as BookManager documents, and they can be accessed and searched from your browser using the functions provided by Library Server (BookManager BookServer.)
  - The z/OS documents are also provided in PDF format. Although the primary purpose for providing these files is for printing, they can also be viewed online.
  - Some documents are provided as HTML files, and they can be accessed and searched using your browser functions.

- If you are accessing the information from CD-ROM (such as the z/OS Collection):
  - The BookManager softcopy can be viewed online using any supported IBM BookManager reader, such as the IBM Softcopy Reader, which can be installed from the tools disc of the z/OS Collection. IBM readers allow you to read any BookManager document.
The PDF files can be viewed online using the Adobe Reader. If you need information on installing and using an Adobe Reader, see the Adobe Web site at http://www.adobe.com.

- The documents can also be accessed in repositories on other operating systems by using the BookManager READ products or Adobe Readers for those systems.

Printing softcopy information

You can print hardcopy when you need it from the softcopy files provided for the z/OS documentation, whether you are accessing those files from a CD-ROM, the z/OS Internet library, or a local repository or Web site.

- If you are viewing a softcopy file and you want hardcopy of a topic or two, you can print from the BOOK or PDF file you are viewing.
- For a complete hardcopy document that looks like a traditional manual you would order from IBM, print the PDF file for the document.

Printing a PDF file

In the workstation environment, you use an Adobe Reader to view and print PDF files. For large or graphically complex documents that need to be printed on an AFP printer, you might want to have the host handle the transforms, instead of doing it on the workstation before sending the file.

To print PDFs from a host repository you can use z/OS and the optional Infoprint Server feature to expand your options for printing PDF files.

Using an Adobe Reader

Install an Adobe Reader on your computer. The z/OS Collection contains a recent level of an Adobe Reader (at no extra charge), which you can install using the tools disc. You can also go to the Adobe Web site at www.adobe.com for other readers or more information.

- Open the PDF you want to print. The PDF can be on a CD-ROM, on the z/OS Internet library, or any where you can view it with an Adobe Reader
- Select the Reader’s Print option
- Select the desired printer and specify other print options as appropriate.
- Click OK.

If you decide to print a subset of a document from a PDF file, the pages (as understood by Adobe Reader) are totally sequential. The Reader views the front cover as page 1. There are no Roman numeral page numbers for the front matter, no section numbering. When you specify the pages to print, enter the page numbers from the Reader’s point of view. Check the page box at the bottom of the screen and not as they appear on the individual pages of the document.

Using a LAN- or host-attached AFP printer

It’s not feasible to print large or graphically complex PDF files on the typical desktop or LAN-attached printer. z/OS Infoprint Server with Infoprint Transforms to AFP for z/OS (5655-N60) allows you to print high-quality hardcopy of PDF files on high-speed LAN-attached or host-attached AFP printers managed by PSF for z/OS.

Workstation users on a LAN connected to z/OS can print PDFs from a CD-ROM, the Web, or the LAN. Host users can print PDFs from an MVS or HFS data set, such as a host repository of softcopy files, or PDFs uploaded from a CD-ROM. For details, see the documentation for Infoprint Server and Infoprint Transforms on the z/OS Collection or on the z/OS Internet library at:
Printing from a BOOK file

How to print topics from a BOOK file depends on how you are viewing that file:

- From your workstation, with IBM Softcopy Reader (for example, to read a BOOK file from a CD-ROM).
- From the z/OS Internet library, which uses Library Server (IBM BookManager BookServer) to display BookManager files.
- From a z/OS host, with BookManager READ.

Because the printout is from the BOOK file itself, the output looks like the BOOK file, with numbered sections and subsections instead of page numbers. You should only use the BOOK file to print a topic or two, and not the whole document.

Using IBM Softcopy Reader

To print the topic you are currently viewing:

- Click the Print icon or go to File --> Print to open a Print window.
- Click the Current® button. This opens your workstation Print window.
- Complete the print options in your workstation Print window, then click OK to print the current topic.

To print selected topics:

- Select the desired topics in the “table of contents” frame.
- Hold down the Shift key to select a list of topics, or hold down the Ctrl key to select specific topics.
- Click the Print icon or go to File --> Print to open a Print window.
- Click the Selected button. This opens your workstation Print window.
- Complete the print options in your workstation Print window, then click OK to print the selected topics.

Using the z/OS Internet library

Printing from the z/OS Internet library gives you a very high-quality output. To print the topic you are currently viewing:

- Click your browser Print icon. Follow the usual steps for printing from your browser.

To print select topics:

- Click the Library Server (BookManager BookServer) Print icon (not your browser Print icon) to a Print Preview window.
- Highlight the desired topics from the selection box. Hold down the Shift key to select a list of topics or hold down the Ctrl key to select specific topics.
- Click the Selected topics button. You then see a formatted preview of the topics.
- Use your browser's print facility to produce a hardcopy document of the information shown.

To print a whole document: the Library Server on the z/OS Internet library displays an icon for the corresponding PDF file, if available, next to each BOOK file on a bookshelf. If you find a document you want to print in its entirety under Library Server, you can click the corresponding PDF file and print it as described in “Printing a PDF file” on page 5.
Using BookManager READ
If your company has established a softcopy repository on z/OS, you can use the Print option of BookManager READ to get hardcopy of a topic or two. However, BookManager READ by itself (without other programs such as DCF and BookMaster®, which are not part of z/OS) provides a lower quality print than printing from Library Server. It is essentially a screen print.

Sometimes, though, BookManager READ may be the only available option. In that case, here’s how to proceed.
- Open the document.
- Set your print options by selecting the Options pull-down menu.
- Select option 5 (Set print options) and specify the desired options.
- Use the PRINT command to print one or more topics in the document. (BookManager READ/MVS invokes the ISPF panels you normally use to print at your site.)
- Enter the command in one of the following ways:
  - PRINT PRINT topic1
  - PRINT topic1 TO topic2
  - PRINT topic1 FOR number-of-topics.

To print the current topic, enter the PRINT command without operands. To print all of a topic (such as 1.0), including its subtopics: enter the next topic number (such as 2.0), then prev. Make note of the last topic number (for example, 1.6.4), then enter the PRINT command with the complete range (PRINT 1.0 TO 1.6.4).

Using OHELP to access softcopy documents for online help
Using the OHELP facility of z/OS UNIX® System Services, your installation can make z/OS BookManager softcopy documents available to TSO/E users for topic-level online help information. The users must be defined to z/OS UNIX System Services, and you must define the documents in the OHELP bookshelf to the OHELP facility. Once defined, users can invoke OHELP to search a specified document or the entire OHELP bookshelf for a string, such as a command name or message identifier or some text. OHELP lists the matches within the document or the bookshelf for that string. You can then select a matched topic and view it in the softcopy document.

See z/OS Migration for information on installing books and bookshelves, and z/OS UNIX System Services Command Reference for information on using OHELP.

Hardcopy documents
When you order z/OS, you receive the following hardcopy documents:
- z/OS Hot Topics Newsletter, GA22-7501
- z/OS Program Directory, G110-0670

For other books, PDF files provide the best form of hardcopy. See Viewing and printing z/OS softcopy documents on page 4 for information on printing the books provided in PDF format on the z/OS Internet library or the z/OS Collection. A few books are also orderable in hardcopy; you can order them as described in Ordering hardcopy documents or softcopy collections on page 8. Table 1 on page 55 indicates whether a document is available in hardcopy. You can also order hardcopy documents by using the IBM Publications Center on the World Wide Web, located at:
Ordering Information

http://www.ibm.com/shop/publications/order

Ordering hardcopy documents or softcopy collections

The document you are reading, z/OS Information Roadmap (SA22-7500), provides descriptions of the z/OS documents and softcopy collections. It is helpful if you are planning to order hardcopy documents or softcopy collections.

In the U.S. and other countries

For a fee, you can order hardcopy documents or softcopy collections by one of the following methods:

- Access the IBM Publications Center on the World Wide Web, located at:
  http://www.ibm.com/shop/publications/order
  Select a country and then “Search for publications”

  The IBM Publications Center accepts orders by credit card and, in many countries, by customer number. See the Publications Center Web site for details.

- Contact your IBM representative or call your local IBM office and ask for the documentation department.

In the U.S. only

For a fee, you can order hardcopy documents or softcopy collections by using a toll-free “800” telephone number or by sending an order form to IBM by fax or direct mail as follows:

Phone:
  1-800-879-2755 (for individual copies)
  1-800-426-2255 and mention priority code LE001 (for softcopy collection features)

Fax: 1-800-445-9269

Direct mail:
  IBM Corporation
  PO Box 29570
  Raleigh, NC 27626-0570

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http://www.ibm.com/shop/publications/order

You can charge the documents or collections to a credit card or customer number.

You can subscribe to hardcopy documents or softcopy collections through the Publication Notification System (PNS) at the IBM Publications Center. PNS notifies you by e-mail when an update is made to a publication in your PNS profile. You will then need to place an order to receive the item. You will be billed when the publication is shipped. You continue to receive notifications about publication updates until you delete the publication from your PNS profile.

In Canada only

For a fee, you can order hardcopy documents or softcopy collections by using a toll-free “800” telephone number or by sending an order form to IBM by fax, Internet, e-mail, or direct mail as follows:

Phone: 1-800-426-4968

FAX: 1-403-267-4455
Ordering Information

Internet:

E-Mail:
   pubs.ca.ibm.com

Direct mail:
   IBM Canada Ltd.
   Publications Services
   144 4th Avenue S.W.
   Calgary, Alberta
   Canada T2P 3N5
Chapter 2. z/OS document descriptions

This section contains descriptions of the z/OS publications, organized by element, starting with the system-level z/OS documents.

z/OS system-level documents

This section describes documentation that applies to z/OS as a whole, not to a specific element in z/OS.

**z/OS Hot Topics Newsletter**

Contains articles about the delivery, installation, management, use, and documentation of z/OS elements and features.

**z/OS Information Roadmap** (the document you are now reading)

Describes the information associated with z/OS including z/OS system-level documents and documents for the participating elements and features.

**z/OS Introduction and Release Guide**

Describes the contents and benefits of z/OS as well as the planned packaging and delivery of the product. This document includes descriptions of the new functions in each release.

**z/OS Licensed Program Specifications**

Provides the warranty for z/OS. It is provided in PDF format only.

**z/OS Migration**

Provides information on how to migrate to z/OS Version 1 Release 11 from previous releases of z/OS.

**z/OS Planning for Installation**

Helps you write an installation plan by providing the following information:

- Basics of z/OS
- Help for deciding on the software installation method
- Driving system software and hardware requirements
- Target system software and hardware requirements
- Minimum levels of stand-alone products that run with z/OS

An installation plan skeleton is included in the document. For the interactive edition of this document, see the z/OS Installation Planning Wizard at: [http://www.ibm.com/systems/z/os/zos/wizards/](http://www.ibm.com/systems/z/os/zos/wizards/)

**z/OS Planning for Multilevel Security and the Common Criteria**

Describes how to set up a secure system across z/OS elements to ensure compliance to Common Criteria Certification.

**z/OS Planning for Sub-Capacity Pricing**
SA22-7999
Describes how to plan for and set up your system for subcapacity pricing for IBM products.

**System z Platform Test Report for z/OS and Linux Virtual Servers**
SA22-7997
The zSeries Platform Test Report documents the efforts of a team of IBM z/Architecture testers and system programmers simulating a customer production environment. This quarterly report describes cross-product and integrated testing in a Parallel Sysplex and includes testing of elements and features of z/OS that are not necessarily sysplex oriented. z/OS and sysplex customers should find this experience-driven information extremely useful.

**z/OS Program Directory**
GI10-0670
Contains information concerning the material and procedures associated with the installation of z/OS Version 1 Release 11. The z/OS Program Directory is not an orderable publication.

**z/OS Summary of Message and Interface Changes**
SA22-7505
Describes the changes to messages and interfaces for individual elements of z/OS. This document is provided in softcopy only on the message bookshelf of the z/OS Version 1 Release 11 Collection.

**z/OS Using the Sub-Capacity Reporting Tool**
SG24–6522
Describes the Sub-Capacity Reporting Tool. This document is provided in softcopy only on the Internet at:

**z/OS DOC APAR and PTF ++HOLD Documentation**
GA22-7820
Contains the latest information updates from z/OS Documentation APARs and PTF cover letters. Updated weekly, this online document lists documentation changes before they are incorporated into z/OS publications. This document is available on the web, at:
http://publibz.boulder.ibm.com/cgi-bin/bookmgr_OS390/Shelves/ZDOCAPAR

**ServerPac: Using the Installation Dialog**
SA22-7815
Explains how to use the CustomPac installation dialog to install a ServerPac order. This document is shipped only with ServerPac orders; it is not shipped with any of IBM's CustomPac offerings, such as SystemPac®, FunctionPac, ProductPac®, RefreshPac, or Selective Follow-on Services (SFS).

**IBM Health Checker for z/OS and Sysplex: User’s Guide**
SA22-7994
Contains information needed to install and use IBM Health Checker for z/OS.

**z/OS Problem Management**
G325-2564
Contains information for problem determination and solution.

z/OS Network Job Entry (NJE) Formats and Protocols
SA22-7539
Network Job Entry Formats and Protocols explains the Network Job Entry (NJE) formats and protocols used by program products that support networking.

BDT
This section describes documents for BDT (Bulk Data Transfer), and the BDT File-to-File and BDT SNA NJE features.

z/OS BDT Commands
SA22-7512
Describes all BDT commands.

z/OS BDT Diagnosis Reference
GA22-7514
Explains how to request and read a BDT formatted dump, explains how to find and read BDT information in an MVS SVC dump, and shows the layouts of BDT data areas.

z/OS BDT Installation
GA22-7511
Explains how to define BDT to MVS and ACF/VTAM, allocate BDT and TQI data sets, write BDT initialization statements, write BDT and TQI start procedures, and write BDT user exit routines.

z/OS BDT Messages and Codes
SA22-7513
Explains all BDT messages and completion codes.

BDT File-to-File
z/OS BDT File-to-File Transaction Guide
SA22-7515
Explains how to create and submit transactions to copy data sets.

BookManager
This section describes documents for BookManager BUILD and BookManager READ.

IBM BookManager BUILD/MVS: Installation Planning and Customization
SC38-2037
Describes how to install online documents and bookshelves on the host system. It also explains how to customize BookManager BUILD.

IBM BookManager READ/MVS and BUILD/MVS: General Information
GC38-2032
Introduces IBM BookManager BUILD/MVS and IBM BookManager READ/MVS, which lets users create and use online documents. This document describes online documents and their similarities to printed documents. It also explains how to create online documents and
bookshelves, and lists the requirements for installing and using both IBM BookManager READ/MVS and IBM BookManager BUILD/MVS.

**IBM BookManager READ/MVS: Displaying Online Books**  
SC38-2034  
Shows how to use the BookManager READ panels to perform the most commonly used functions, such as starting and ending a READ session, searching documents and bookshelves, and printing softcopy information.

**IBM BookManager READ/MVS: Getting Started**  
SC38-2033  
Helps users get started using the READ/MVS panels to display information online. It shows the actions available on the panels and describes how to perform the most common actions.

**IBM BookManager READ/MVS: Installation Planning and Customization**  
SC38-2035  
Helps users plan the installation of IBM BookManager READ for use in a z/OS environment. It also explains how to customize BookManager READ, which lets you organize, display, and search online documents.

**Common Information Model**

**z/OS Common Information Model User's Guide**  
SC33-7998  
The **z/OS Common Information Model User's Guide** describes the overall CIM data model and how to use it, and also describes the z/OS specific supplements and differences, as well as installation, configuration and security instructions for z/OS systems.

**Communications Server**

This section describes documents for the Communications Server.

For help in configuring z/OS Communications Server IP, see the IBM **Configuration Assistant for z/OS** at:  

**z/OS Communications Server: New Function Summary**  
GC31-8771  
Describes new IP and SNA function. Helps you plan for IP and SNA, whether you are migrating from a previous version or installing z/OS for the first time. It summarizes what is new in the release and identifies the suggested and required modifications needed to use the enhanced functions.

**z/OS Communications Server: CMIP Services and Topology Agent Guide**  
SC31-8828  
Describes the SNA LU 6.2 programming interface for host application programs. It applies to programs that use LU 6.2 sessions.

**z/OS Communications Server: CSM Guide**  
SC31-8808  
Describes how to use the communications storage manager.

**z/OS Communications Server: IP and SNA Codes**
Communications Server

SC31-8791
Describes the codes associated with SNA and IP.

z/OS Communications Server: IP Sockets Application Programming Interface Guide and Reference
SC31-8788
Describes the syntax and options of the socket calls for the C, REXX, Assembler, PL/1, COBOL, PASCAL languages. It also documents how to use the VMCF and XTI interfaces.

z/OS Communications Server: IP CICS Sockets Guide
SC31-8807
Describes how to set up, write application programs for, and diagnose problems with the socket interface for CICS® using IP.

z/OS Communications Server: IP Configuration Guide
SC31-8775
Contains concepts and guidance, explaining an overall approach to IP configuration.

z/OS Communications Server: IP Configuration Reference
SC31-8776
Describes parameters and options, syntax of statements used during configuration.

z/OS Communications Server: IP Diagnosis Guide
GC31-8782
Provides information about diagnosing problems occurring in IP networks. It can help you determine if a specific problem is an IP problem and also tells you how to report it to the IBM Software Support Center.

z/OS Communications Server: IP IMS Sockets Guide
SC31-8830
Describes how to write application programs that use the IMS™ IP application development services provided by IP.

z/OS Communications Server: IP Messages Volume 1 (EZA)
SC31-8783
Describes the messages beginning with the prefix EZA that occur in IP. This document can also help with problem determination in an IP implementation.

z/OS Communications Server: IP Messages Volume 2 (EZB, EZD)
SC31-8784
Describes the messages beginning with the prefix EZB and EZD that occur in IP. This document can also help with problem determination in an IP implementation.

z/OS Communications Server: IP Messages Volume 3 (EZY)
SC31-8785
Describes the messages beginning with the prefixes: EZY that occur in IP. This document can also help with problem determination in an IP implementation.

z/OS Communications Server: IP Messages Volume 4 (EZZ, SNM)
Describes the messages beginning with the prefixes: EZZ and SNM that occur in IP. This document can also help with problem determination in an IP implementation.

**z/OS Communications Server: IPv6 Network and Application Design Guide**

Describes concepts of z/OS Communications Server’s support of IPv6, coexistence with IPv4, and migration issues. It is intended for programmers and system administrators who are familiar with TCP/IP, MVS, UNIX System Services, and TSO/E.

**z/OS Communications Server: IP Network Print Facility**

Describes how to customize and use a print feature for IP. This feature takes print request from a SNA or JES and uses IP to route them to remote printers.

**z/OS Communications Server: IP Programmer’s Guide and Reference**

Describes the syntax and use of high-level application functions that enable you to write your own applications in an IP environment. The functions include authenticating access, use of distributed databases, distributed processing, network management, and device sharing (SNMP, X Windows®, RPC, and NCS).

**z/OS Communications Server: IP System Administrator’s Commands**

Describes common IP commands used during system administration and configuration.

**z/OS Communications Server: IP User’s Guide and Commands**

Describes the end user functions and commands supported by IP, such as Telnet, FTP, and SMTP.

**z/OS Communications Server: Quick Reference**

Contains essential information about SNA and IP operator commands.

**z/OS Communications Server: SNA Customization**

Provides information that enables you to customize SNA by modifying tables and creating installation-wide exit routines.

**z/OS Communications Server: SNA Data Areas Volume 1**

Describes SNA data areas and can be used to read a SNA dump. It is intended for IBM programming service representatives and customer personnel who are diagnosing problems with SNA. This volume includes request response units, GDS variable session keys, control vectors and CSM data areas.

**z/OS Communications Server: SNA Data Areas Volume 2**

Describes SNA data areas and can be used to read a SNA dump. It is
intended for IBM programming service representatives and customer personnel who are diagnosing problems with SNA.

**z/OS Communications Server: SNA Diagnosis Vol 1, Techniques and Procedures**
GC31-6850
Helps you identify a SNA problem, classify it, and collect information about it before you call the IBM Support Center. The information collected includes traces, dumps, and other problem documentation.

**z/OS Communications Server: SNA Diagnosis Vol 2, FFST Dumps and the VIT**
GC31-6851
Helps you identify a SNA problem, classify it, and collect information about it before you call the IBM Support Center. The information collected includes using FFST™ dumps and interpreting VIT records.

**z/OS Communications Server: SNA Messages**
SC31-8790
Describes messages, beginning with the prefixes ELM, IKT, IST, ISU, IUT, IVT and USS, and other information associated with SNA messages.

**z/OS Communications Server: SNA Network Implementation Guide**
SC31-8777
Presents the major concepts involved in implementing a SNA network.

**z/OS Communications Server: SNA Operation**
SC31-8779
Serves as a reference for programmers and operators who need detailed information about specific operator commands. The information includes:
- SNA commands and start options
- Logon manager commands
- DISPLAY output examples
- VSCS commands.

**z/OS Communications Server: SNA Programmer's LU 6.2 Guide**
SC31-8811
Describes the SNA LU 6.2 programming interface for host application programs. It applies to programs that use LU 6.2 sessions.

**z/OS Communications Server: SNA Programmer's LU 6.2 Reference**
SC31-8810
Provides reference material for the SNA LU 6.2 programming interface for host application programs.

**z/OS Communications Server: SNA Programming**
SC31-8829
Describes how to use SNA macro instructions to send data to and receive data from a terminal or another application.

**z/OS Communications Server: SNA Resource Definition Reference**
SC31-8778
Describes each SNA definition statement, start option, and macro instruction. It also describes NCP definition statements that affect SNA.

**z/OS Communications Server: SNA Resource Definition Samples**
SC31-8836
Contains the VTAM® definition statements to help system programmers...
Communications Server

define resources in a VTAM network. Use this document in conjunction with
the VTAM Network Implementation Guide and the Resource Definition
Reference.

Cryptographic Services

This section describes documents for Cryptographic Services, including ICSF, Open
Cryptographic Services Facility, System Secure Sockets Layer (SSL) base, and
PKI.

**z/OS Cryptographic Services ICSF Administrator’s Guide**
SA22-7521
Explains how to administer ICSF. It describes managing cryptographic keys,
entering keys into the Cryptographic Key Data Set (CKDS) and using the
key generator utility program (KGUP).

**z/OS Cryptographic Services ICSF Writing PKCS #11 Applications**
SA23-2231
Describes the support for PKCS #11 provided by the z/OS Integrated
Cryptographic Service Facility (ICSF). This document is primarily intended
for application programmers who want to write PKCS #11 applications for
z/OS.

**z/OS Cryptographic Services ICSF Application Programmer’s Guide**
SA22-7522
Describes the callable services provided by ICSF. It is helpful to application
programmers using the security application programming interface (API) to
access cryptographic functions.

**z/OS Cryptographic Services ICSF Messages**
SA22-7523
Explains the ICSF messages and the routing and descriptor codes for those
messages.

**z/OS Cryptographic Services ICSF Overview**
SA22-7519
Introduces ICSF and provides information about the capabilities and
benefits of using cryptographic services in a z/OS environment.

**z/OS Cryptographic Services ICSF System Programmer’s Guide**
SA22-7520
Explains how to initialize and customize ICSF. It also contains information
and problem diagnosis information.

**z/OS ICSF TKE PCIX Workstation User’s Guide**
SA23-2211
Explains installing, implementing and administering Version 5.0 of the IBM
Trusted Key Entry product. It is intended for anyone who manages
cryptographic keys, usually a security administrator. It includes information
to support the following tasks for the solution: Planning Installing
Administering Customizing Using
• Planning
• Installing
• Administering
• Customizing
Cryptographic Services

- Using

**z/OS Open Cryptographic Services Facility Application Programming**
*SC24-5899*
Provides an overview of the Open Cryptographic Services Facility (OCSF). It explains how to integrate OCSF into applications and contains a sample OCSF application. It also defines the interfaces that application developers employ to access security services provided by the OCSF framework and service provider modules. It also describes specific information about the individual service providers.

**z/OS Open Cryptographic Services Facility Service Provider Module Developer’s Guide and Reference**
*SC24-5900*
Describes the features common to all OCSF service provider modules. It defines the interfaces for certificate, trust and data library service providers. Service provider developers must conform to these interfaces for the individual service provider modules to be accessible through the OCSF framework.

**z/OS Cryptographic Services System SSL Programming**
*SC24-5901*
Contains guidance and reference information that an application programmer needs to use the System Secure Sockets Layer (SSL) callable services programming interfaces. SSL is a communications layer that provides data privacy and integrity as well as server and client authentication based on public-key certificates. The callable services programming interfaces provide protected communications over a TCP/IP socket communication path.

**z/OS Cryptographic Services PKI Services Guide and Reference**
*SA22-7693*
Provides detailed procedures for planning, setting up, and using PKI Services. It also includes messages, log information, and coding samples.

### DCE Base Services

This section describes documents for DCE including DCE Base Services, DCE User Data Privacy (CDMF), and DCE User Data Privacy (DES and CDMF).

**z/OS DCE Administration Guide**
*SC24-5904*
Helps system and network administrators understand DCE, and administer it from the batch, TSO/E, and shell environments.

**z/OS DCE Application Development Guide: Core Components**
*SC24-5905*
Assists programmers in developing applications using application facilities, threads, remote procedure call, distributed time service, and security service.

**z/OS DCE Application Development Guide: Directory Services**
*SC24-5906*
Describes the DCE directory service and assists programmers in developing applications for the cell directory service and the global directory service.
DCE

/z/OS DCE Application Development Guide: Introduction and Style
SC24-5907
Assists in designing, writing, compiling, linking, and running distributed applications in the DCE environment.

/z/OS DCE Application Development Reference
SC24-5908
Explains the DCE Application Program Interfaces that you can use to write distributed applications on DCE.

/z/OS DCE Command Reference
SC24-5909
Provides reference information for the commands that system and network administrators use to work with DCE.

/z/OS DCE Configuring and Getting Started
SC24-5910
Helps system and network administrators configure DCE.

/z/OS DCE Introduction
GC24-5911
Introduces DCE. Whether you are a system manager, technical planner, system programmer, or application programmer, it will help you understand DCE, and evaluate the uses and benefits of including DCE as part of your information processing environment.

/z/OS DCE Messages and Codes
SC24-5912
Provides detailed explanations and recovery actions for the messages, status codes, and exception codes issued by DCE.

/z/OS DCE Planning
GC24-5913
Helps you plan for the organization and installation of DCE. It discusses the benefits of distributed computing in general, and describes how to develop plans for a distributed system in a z/OS environment.

/z/OS DCE User's Guide
SC24-5914
Describes how to use DCE to work with your user account, use the directory service, work with namespaces, and change access to objects that you own.

DFSMS

This section describes documents for DFSMSdfp™, DFSMSdss™, DFSMShsm™, and DFSMSrmm™, and DFSMStvs.

/z/OS DFSMS Access Method Services for Catalogs
SC26-7394
Describes IDCAMS commands for using integrated catalog facility catalogs.
DFSMS

**z/OS DFSMS Advanced Copy Services**
SC35-0428
Provides an introduction and instructions for implementing and using the remote copy disaster recovery and workload migration tool.

**z/OS DFSMSdfp Checkpoint/Rerstart**
SC26-7401
Contains information on establishing checkpoints during a program and restarting a job.

**z/OS DFSMS DFM Guide and Reference**
SC26-7395
Contains information about accessing and creating MVS data sets from remote systems.

**z/OS DFSMS Implementing System-Managed Storage**
SC26-7407
Describes tasks for migrating to system-managed storage and optimizing use of the storage management subsystem.

**z/OS DFSMS Installation Exits**
SC26-7396
Contains instructions on exit routines and modules that extend or replace IBM-supplied functions.

**z/OS DFSMS Introduction**
SC26-7397
Provides an overview of DFSMS.

**z/OS DFSMS Macro Instructions for Data Sets**
SC26-7408
Contains access method macro instructions for processing user data sets.

**z/OS DFSMS Managing Catalogs**
SC26-7409
Describes techniques for managing integrated catalog facility catalogs.

**z/OS DFSMSdfp Storage Administration**
SC26-7402
This book merges information previously contained in the Storage Administration References for DFSMSdfp, dss, and hsm. Contains instructions for initializing and maintaining the storage management subsystem and for performing storage management tasks using ISMF panels.

Describes DFSMSdss tasks for copying, dumping, and restoring data sets and DASD volumes, and diagnosis information, including keyword search strings and other diagnostic tools.

Describes DFSMShsm tasks for managing storage, including examples of storage administrator commands and results of DFSMShsm processing. Also contains information about disaster prevention and the recovery of DFSMShsm data based on real experiences.

**z/OS DFSMS Software Support for IBM System Storage TS1130 and TS1120 Tape Drives (3592)**
DFSMS

SC26-7514
This book describes the installation, migration, and operation of the IBM TotalStorage Enterprise Tape System 3592 software support.

/z/OS DFSMS Using Data Sets
SC26-7410
Describes techniques for processing, protecting, and maintaining user data sets.

/z/OS DFSMS Using the Interactive Storage Management Facility
SC26-7411
Describes commands and techniques for using ISMF to analyze and manage data resources.

/z/OS DFSMS Using Magnetic Tapes
SC26-7412
Describes techniques for using magnetic tape volumes.

/z/OS DFSMS Using the Volume Mount Analyzer
SC26-7413
Contains instructions for analyzing tape mounts with the Volume Mount Analyzer.

DFSMSdfp

/z/OS DFSMSdfp Advanced Services
SC26-7400
Provides techniques for extending DFSMS/MVS™ data management capabilities and other system data operations.

/z/OS DFSMSdfp Diagnosis
GY27-7618
Contains information for diagnosing DFSMSdfp-related errors, and guidance for using DFSMSdfp diagnostic tools and aids to gather failure-related information.

/z/OS DFSMS OAM Application Programmer’s Reference
SC35-0425
Contains information about the OAM application interface used to manipulate objects.

/z/OS DFSMS OAM Planning, Installation, and Storage Administration Guide for Object Support
SC35-0426
Contains OAM planning, installation, customizing, and storage management information for optical libraries.

/z/OS DFSMS OAM Planning, Installation, and Storage Administration Guide for Tape Libraries
SC35-0427
Contains OAM planning, installation, customizing, and storage management information for tape libraries.

/z/OS DFSMSdtp Utilities
Contains instructions for using DFSMSdfp utility programs for data, program, and device management.

**DFSMSdss**

`z/OS DFSMSdss Storage Administration`

SC35-0423

Describes DFSMSdss tasks for copying, dumping, and restoring data sets and DASD volumes, and diagnosis information, including keyword search strings and other diagnostic tools.

**DFSMSshm**

`z/OS DFSMSshm Diagnosis`

GC52-1083

Provides diagnosis information for DFSMSshm, including instructions for building keyword search strings and other diagnostic tools. Contains information about the DFSMSshm control blocks and data areas used during diagnostic and maintenance procedures.

`z/OS DFSMSshm Implementation and Customization Guide`

SC35-0418

Provides guidance for creating and maintaining DFSMSshm-owned data sets, including migration and coexistence considerations.

`z/OS DFSMSshm Managing Your Own Data`

SC35-0420

Contains DFSMSshm user macros and user command syntax, conventions, and coding examples.

`z/OS DFSMSshm Storage Administration`

SC35-0421

Describes DFSMSshm tasks for managing storage, including examples of storage administrator commands and results of DFSMSshm processing. Also contains information about disaster prevention and the recovery of DFSMSshm data based on real experiences.

**DFSMSshm Storage Administration Reference**

SC35-0422

The information previously contained in this book has been consolidated into DFSMS Storage Administration Reference.

**DFSMSrmm**

`z/OS DFSMSrmm Application Programming Interface`

SC26-7403

Describes how to use the DFSMSrmm Application Programming Interface to obtain information about DFSMSrmm resources.

`z/OS DFSMSrmm Diagnosis Guide`

GY27-7619

Contains information for diagnosing DFSMSrmm-related errors, including how to use DFSMSrmm diagnostic tools.

`z/OS DFSMSrmm Managing and Using Removable Media`
DFSMS

SC26-7404
Provides instructions for using DFSMSrmm to manage removable media.

z/OS DFSMSrmm Implementation and Customization Guide

SC26-7405
Contains information about implementing and customizing the functions of DFSMSrmm.

z/OS DFSMSrmm Reporting

SC26-7406
This document provides information about creating reports in DFSMSrmm using DFSMSrmm reporting utilities, DFSORT™ and DFSORT’s ICETOOL, DFSMSrmm TSO subcommands, and REXX EXECs.

DFSMStvs

z/OS DFSMStvs Administration Guide

GC26-7483
Provides reference and guidance information for many of the major tasks that a user might need to perform when using DFSMS Transactional VSAM Services (DFSMStvs).

This document helps you:
- Understand certain functions such as VSAM RLS, and the manner in which DFSMStvs relates to these functions and builds upon them
- Learn about the migration tasks that you must complete
- Perform tasks such as customizing, administering, and operating DFSMStvs, as well as diagnosing problems related to DFSMStvs

z/OS DFSMStvs Planning and Operating Guide

SC26-7348
Provides system programmers, application programmers, and operators who are responsible for customizing, writing applications for, and operating DFSMStvs with information about:
- Using DFSMStvs to share VSAM data for concurrent batch updates
- Installing and operating DFSMStvs
- Designing and coding applications to use DFSMStvs
- Diagnosing and recovering from DFSMStvs problems

DFSORT

This section describes documents for DFSORT.

z/OS DFSORT Application Programming Guide

SC26-7523
This guide gives you the necessary information to use DFSORT to sort, merge, and copy data sets, including how to prepare DFSORT control statements, how to calculate storage requirements, and how to use the program exits. It also contains examples of DFSORT control statements and program exit routines.

z/OS DFSORT: Getting Started

SC26-7527
This document is intended to help you get started using DFSORT to sort, merge, and copy data sets. It also contains step-by-step procedures for writing applications.
DFSORT

This guide is intended to help you install and customize DFSORT. It is designed to be used with the DFSORT Program Directory, which contains the installation procedures.

**z/OS DFSORT Messages, Codes and Diagnosis Guide**

This document is intended to help you interpret informational and error messages issued by DFSORT. It contains explanations of and possible responses to these messages. It also contains the return codes and diagnostic messages issued by DFSORT. It shows you how to describe DFSORT program failures with a set of keywords used by the support center.

**z/OS DFSORT Tuning Guide**

This guide provides you with information about tuning DFSORT. It offers suggestions for reducing the use of system resources and achieving better turnaround time for applications that use DFSORT.

## Distributed File Service

This section describes documents for Distributed File Service (DFS™).

**z/OS Distributed File Service Customization**

Summarizes migration and configuration information of the Distributed File Service.

**z/OS Distributed File Service DFS Administration**

Provides guidance and reference information for system and network administrators to use with the DCE DFS support of the Distributed File Service.

**z/OS Distributed File Service Messages and Codes**

Contains Distributed File Service messages and codes.

**z/OS Distributed File Service SMB Administration**

Provides guidance and reference information for system and network administrators to use when they work with the Server Message Block (SMB) support of Distributed File Service. SMB is a protocol for remote file/print access used by Windows.

**z/OS Distributed File Service zSeries File System Administration**

Provides guidance and reference information for system and network administrators to use when they work with the zSeries File System Administration support of Distributed File Service.
EREP

This section describes documents for EREP.

**EREP Reference**
*GC35-0152*
Provides supplementary material to the User's Guide, including an overview of EREP parameters, control statements, and records; a listing of EREP messages and codes; examples of all types of output reports; and product dependent information about all supported IBM devices.

**EREP User's Guide**
*GC35-0151*
Contains detailed instructions and sample procedures for setting up and running EREP in VM, VSE, and MVS environments.

FFST

This section describes the document for First Failure Support Technology™ (FFST).

**FFST/MVS FFST/VM Operations Guide**
*SC31-8604*
Describes commands for controlling FFST operation and how to use FFST output to identify and analyze software events.

GDDM

This section describes documents for GDDM® (including PCLK and OS/2® Link) and GDDM-REXX.

**GDDM Base Application Programming Guide**
*SC33-0867*
Contains guidance information for writing programs that request or receive the services of GDDM.

**GDDM Base Application Programming Reference**
*SC33-0868*
Contains complete descriptions of all the GDDM program calls and their parameters.

**GDDM Diagnosis**
*SC33-0870*
Contains problem determination procedures and information needed to diagnose problems encountered in the use of GDDM.

**GDDM General Information**
*GC33-0866*
Introduces the IBM GDDM series of licensed programs. It also describes new functions, ways in which GDDM is used, software and hardware requirements and the GDDM library.

**GDDM-GKS Programming Guide and Reference**
*SC33-0334*
Describes how to write and run application programs that use GDDM-GKS, the GDDM Graphical Kernel System licensed program.
GDDM Image View Utility
SC33-0479
Describes how to use GDDM-IVU interactively and how to use its application programming interface to add image-handling capabilities to data processing systems.

GDDM Messages
SC33-0869
Provides the information that helps users respond to messages issued by GDDM.

GDDM/MVS Program Directory
GC33-1801
Provides information about installation, including planning, testing, and servicing GDDM information.

GDDM System Customization and Administration
SC33-0871
Describes:
- How to set up and maintain device support for GDDM users
- The effects of GDDM’s external defaults and how to customize them
- Code-page, font, and symbol-set support, and how to customize them
- Factors that affect GDDM performance and how to tune them
- How to replace modules

GDDM User’s Guide
SC33-0875
Describes how to display data and how to manipulate, print, plot, and save displayed data. It also describes installing and using GDDM-PCLK and GDDM-OS/2 Link.

GDDM Using the Image Symbol Editor
SC33-0920
Describes how to use the GDDM Image Symbol Editor to create and edit symbols.

GDDM-PGF
This section describes documents for GDDM-PGF.

GDDM-PGF Application Programming Guide
SC33-0913
Provides guidance information for users of the Interactive Chart Utility (ICU), the ICU application programming interface, and the Presentation Graphics routines.

GDDM-PGF Interactive Chart Utility
SC33-0328
Describes how to use the ICU to create and display business graphics.

GDDM-PGF OPS User’s Guide
SC33-1776
Describes how to use the Online Presentation System (OPS) to create and display dynamic presentations online, to create high quality foils and pictures, and to view online conventional line-mode print files.
GDDM-PGF

GDDM-PGF Programming Reference
SC33-0333
Provides reference information for users of the application-programming interfaces of GDDM-PGF.

GDDM-PGF Vector Symbol Editor
SC33-0330
Describes how to use the Vector Symbol Editor to produce symbols and logos for use in charts and other business graphics.

Hardware Configuration Definition

This section describes documents for Hardware Configuration Definition (HCD).

z/OS and z/VM HCD Messages
SC33-7986
Describes the messages issued by HCD.

z/OS HCD Planning
GA22-7525
Explains the concepts, actions, and general planning considerations needed to define and maintain an I/O configuration using HCD.

z/OS HCD Reference Summary
SX33-9032
Provides a short overview of HCD tasks, navigation options, and information about online help. It also describes the relations among the configuration objects and lists the actions and action codes for each object.

z/OS HCD Scenarios
SC33-7987
Contains about 20 scenarios of common hardware configuration tasks.

z/OS HCD User’s Guide
SC33-7988
Explains how to use HCD to define, activate, modify or view hardware configurations, and query supported hardware. HCD also permits you to maintain and compare IODFs, obtain graphical and textual reports of configurations, and migrate existing configuration data.

Hardware Configuration Manager

This section describes the document for Hardware Configuration Manager (HCM).

z/OS and z/VM HCM User’s Guide
SC33-7989
Explains how to install and use HCM to create, manage and maintain hardware configuration information.

High Level Assembler

This section describes documents for High Level Assembler and the High Level Assembler Toolkit feature.

HLASM General Information
High Level Assembler

GC26-4943
Provides an overview of High Level Assembler.

**HLASM Installation and Customization Guide**
SC26-3494
Contains installation, customization, diagnosis, and maintenance information for High Level Assembler.

**HLASM Language Reference**
SC26-4940
Contains language reference information to help users code High Level Assembler language programs.

**HLASM Programmer’s Guide**
SC26-4941
Contains High Level Assembler product usage information.

High Level Assembler Toolkit

**HLASM Toolkit Feature Debug Reference Summary**
GC26-8712
Provides a reference summary to help users debug assembler language applications.

**HLASM Toolkit Feature Installation and Customization Guide**
GC26-8711
Contains information for installing and maintaining the High Level Assembler Toolkit Feature.

**HLASM Toolkit Feature Interactive Debug Facility User’s Guide**
GC26-8709
Contains both reference and guidance information for using the High Level Assembler Toolkit Feature Interactive Debug Facility.

**HLASM Toolkit Feature User’s Guide**
GC26-8710
Contains information for using all components of the High Level Assembler Toolkit Feature (other than the Interactive Debug Facility).

IBM Encryption Facility

This section describes documents for the z/OS related feature, Encryption Facility.

**Encryption Facility for z/OS: Planning and Customizing**
SA23-2229
This document explains how to plan for the Encryption Facility product, including Encryption Services, Encryption Facility for z/OS Client, Encryption Facility for OpenPGP, and DFSMSdss Encryption. It also provides detailed information for the Encryption Services CSDFILEN and CSDFILDE batch programs.

**Encryption Facility for z/OS: Using Encryption Facility for OpenPGP**
SA23-2230
This document explains how to use Encryption Facility for OpenPGP, which is part of the product feature, IBM® Encryption Services included in IBM
Encryption Facility

Encryption Facility for z/OS. It is intended for anyone who plans, installs, customizes, administers, and uses Encryption Facility for OpenPGP.

IBM Encryption Facility for z/OS: User's Guide
SA23-1349
This document explains how to plan for the Encryption Facility product, including Encryption Services, Encryption Facility for z/OS Client, Encryption Facility for OpenPGP, and DFSMSdss Encryption. It also provides detailed information for the Encryption Services CSDFILEN and CSDFILDE batch programs.

IBM High Performance Computing Libraries for z/OS
This section describes documents for the z/OS element, IBM High Performance Computing Libraries for z/OS.

SA23-2229
This document provides an overview of the Cell Broadband Engine (Cell/B.E.) solution, which integrates specialized hardware and software to accelerate processing power. This solution is targeted for specific types of workloads: computationally intense, interactive, and highly graphical.

IBM High Performance Computing Libraries for z/OS....
SA23-2230
This document explains how to use .....
IBM Tivoli Directory Server

Directory Access Protocol (LDAP) and runs as a stand-alone daemon. It is based on a client/server model that provides client access to an LDAP server. The LDAP server provides an easy way to maintain directory information in a central location for storage, updating, retrieval, and exchange. It is intended to assist LDAP administrators. LDAP administrators should be experienced and have previous knowledge of directory services. It is also intended for anyone that will be implementing the directory service.

IBM Tivoli Directory Server Plug-in Reference for z/OS, SA76-0148

This document describes writing Lightweight Directory Access Protocol (LDAP) client applications, which are part of IBM Tivoli Directory Server for z/OS. It is intended for application programmers who have previous knowledge of directory services.

IBM z/OS Management Facility

This section describes documents supporting IBM z/OS Management Facility.

IBM z/OS Management Facility User’s Guide, SA38-0652

IBM z/OS Management Facility User’s Guide provides the information you need to install, configure, and use IBM z/OS Management Facility. This document is for administrators, system programmers, and end users working on a z/OS system and using IBM z/OS Management Facility. This document assumes that readers are familiar with the z/OS system and with the information for z/OS and its accompanying products.

IBM z/OS Management Facility License Information, GC52-1263

IBM z/OS Management Facility License Information contains the licensing information for IBM z/OS Management Facility.

Program Directory for IBM z/OS Management Facility, GI11-2886

Program Directory for IBM z/OS Management Facility is intended for the system programmer responsible for program installation and maintenance. It contains information concerning the material and procedures associated with the installation of the IBM z/OS Management Facility. The program directory should be read before installing the program.

ICKDSF

This section describes the document for ICKDSF.


Includes information about how to perform service functions, error detection, and media maintenance for IBM DASD. It also includes a summary of ICKDSF commands that support error detection and media maintenance on IBM DASD.
Infoprint Server

This section describes documents for Infoprint Server and Infoprint Server Transforms. Major components of Infoprint Server are IP PrintWay, NetSpool, Print Interface, and Infoprint Central.

Infoprint Transforms to AFP for z/OS
G550-0443
This book describes Infoprint Transforms to AFP V2.1 for z/OS (5655-N60).
Infoprint Server

It describes the transforms and how to customize them, submit transform jobs, and diagnose errors. Also, it describes how to migrate from Infoprint Server Transforms V1.1.

Infoprint Transforms from AFP for z/OS
G550-0444

This book describes V2.1 of these products:
- Infoprint Transform for AFP to HP PCL for z/OS (5655-P19)
- Infoprint Transform for AFP to Adobe PDF for z/OS (5655-P20)
- Infoprint Transform for AFP to Adobe PostScript for z/OS (5655-P21)

It describes the transforms and how to customize them, submit transform jobs, and diagnose errors. Also, it describes how to migrate from Infoprint Server Transforms V1.1.

Integrated Security Services

This section describes documents for the Integrated Security Services, including Enterprise Identity Mapping, Network Authentication Service, and Open Cryptographic Services Facility.

Integrated Security Services Enterprise Identity Mapping (EIM) Guide and Reference
SA22-7875

This document contains information about using Enterprise Identity Mapping (EIM). EIM is an architecture that serves as a security technology to make it easier to manage users in a cross-platform environment.

z/OS Integrated Security Services Network Authentication Service Administration
SC24-5926

Provides an introduction to the z/OS implementation of Kerberos Version 5 from MIT, as well as configuration and administration information, including the few administration commands needed. It also includes status codes and messages.

z/OS Integrated Security Services Network Authentication Service Programming
SC24-5927

Contains all of the application programming interfaces (APIs): Kerberos, GSS-API, and GSS-API with Kerberos mechanism, for the z/OS implementation of Kerberos Version 5 from MIT.

z/OS Integrated Security Services Open Cryptographic Enhanced Plug-ins Application Programming
SC24-5925

Describes the OCEP service provider modules and how they are intended to be used with the framework provided by the Open Cryptographic Services Facility (OCSF). It also describes how these service provider modules enable daemon applications to use RACF to provide security functions relating to digital certificates.

ISPF

This section describes documents for ISPF.

z/OS ISPF Dialog Developer's Guide and Reference
ISPF

SC34-4821
Describes how to use the ISPF Dialog Manager component. Explains how to create ISPF panels using Dialog Tag Language (DTL), control ISPF sessions, use ISPF facilities and services, and define ISPF panel messages and file tailoring skeletons.

z/OS ISPF Dialog Tag Language Guide and Reference
SC34-4824
Explains how to use the Dialog Tag Language (DTL) to design and create ISPF dialogs containing elements such as application panels, help panels, variables, fields, messages, command tables and key lists. It also includes an alphabetical reference guide to DTL tags.

z/OS ISPF Edit and Edit Macros
SC34-4820
Explains how to use the ISPF editor and how to use, write and test edit macros. Includes an alphabetical reference guide to edit line, primary, and macro commands available for ISPF.

z/OS ISPF Messages and Codes
SC34-4815
Provides information for ISPF users about error messages and codes issued by ISPF, PDF, and SCLM.

z/OS ISPF Planning and Customizing
GC34-4814
Provides planning information and procedures.

z/OS ISPF Reference Summary
SC34-4816
Provides a quick reference for application developers and library administrators to ISPF services and variables, edit macro commands, SCLM services and macros, and DTL tags.

z/OS ISPF Services Guide
SC34-4819
Describes how to use ISPF Dialog Management services and PDF Services to develop dialogs, including information about each service such as syntax, return codes, and examples.

z/OS ISPF Software Configuration and Library Manager Guide and Reference
SC34-4817
Describes how to set up and maintain an SCLM project environment, and how programmers can use SCLM functions to control development projects.

z/OS ISPF User’s Guide Vol I
SC34-4822
Describes the ISPF user interface and introduces ISPF concepts and functions including commands, libraries, and data sets.

z/OS ISPF User’s Guide Vol II
SC34-4823
Provides detailed reference and usage information about using ISPF options 0 to 10 and the SuperC and Search-For data set utilities.
This section describes documents that are shared between JES2 and JES3.

**z/OS JES3 Commands**
SA22-7540
This document describes the application programming of JES2 and JES3. This document provides the information that you need to:
- Use the Spool Data Set Browse.
- Use the Server/Client Print Interface.
- Use the Internal Reader.
- Use the IBM-supplied External Writer.

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**JES2**

This section describes documents for JES2.

**z/OS JES2 Commands**
SA22-7526
Provides the system console operator and system programmer with the information required to control JES2. The document presents task-oriented material required to use JES2 commands to perform various tasks and a reference section that presents all JES2 commands in alphabetic order.

**z/OS JES2 Diagnosis**
GA22-7531
Describes the use of JES2 diagnostic aids and tools and how to interpret the output of those aids and tools. The document helps the system programmer to identify a problem, collect information about the problem, report the problem to IBM, and fix the problem.

**z/OS JES2 Initialization and Tuning Guide**
SA22-7532
Describes the general functions of JES2 and provides information about JES2 initialization, JES2 processing, network job entry (NJE), remote job entry (RJE), and factors affecting performance.

Its companion document, **z/OS JES2 Initialization and Tuning Reference** describes the JES2 initialization statements in detail.

**z/OS JES2 Initialization and Tuning Reference**
SA22-7533
Describes the JES2 initialization statements and their parameters and provides summary or overview charts of the statements.

**z/OS JES2 Installation Exits**
SA22-7534
Provides system programming information about the use of IBM-defined and installation-defined JES2 exit routines. It describes how to establish JES2 exit routines to tailor JES2 without source code modification.

**z/OS JES2 Introduction**
SA22-7535
Provides a high-level overview of JES2, its functions, and its relationship to
other MVS components. It also provides an overview of JES2 initialization, operation, and customization and diagnostic techniques.

**z/OS JES2 Macros**
**SA22-7536**
Provides information about the use and syntax of JES2 executable macro instructions.

**z/OS JES2 Messages**
**SA22-7537**
Describes JES2 messages and suggests appropriate operator, system programmer, and application programmer responses.

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**JES3**

This section describes documents for JES3.

**z/OS JES3 Commands**
**SA22-7540**
Describes the commands used to operate JES3 and provides system operators and system programmers with the information required to control JES3. This document contains task-oriented material required to use JES3 commands to perform various tasks and a reference section in which all JES3 commands are presented in alphabetic order.

**z/OS JES3 Customization**
**SA22-7542**
Provides information on customizing JES3 through the use of dynamic support programs (DSPs) and installation exits. The document explains how to write a DSP and an installation exit routine and describes the JES3 macros available.

**z/OS JES3 Diagnosis**
**GA22-7547**
Provides information on tools for diagnosing JES3 and user-written extensions of JES3.

**z/OS JES3 Diagnosis Reference**
**GA22-7548**
Contains interactive problem control system (IPCS) information pertinent to JES3, control block chaining, module tables, and mapping macro tables.

**z/OS JES3 Initialization and Tuning Guide**
**SA22-7549**
Provides guidance information required to install, initialize, customize, and tune JES3.

**z/OS JES3 Initialization and Tuning Reference**
**SA22-7550**
Provides reference information required to install, initialize, customize, and tune JES3.

**z/OS JES3 Introduction**
**SA22-7551**
Provides overview information about JES3 including the various processor and device combinations under which JES3 operates. This document also
describes JES3 features of interest to an operator, an application programmer, and a system programmer.

**z/OS JES3 Messages**

SA22-7552

Describes JES3 messages and suggests appropriate operator, system programmer, and application programmer responses.

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### Language Environment

This section describes documents for Language Environment®.

**z/OS Language Environment Concepts Guide**

SA22-7567

Introduces Language Environment architecture, a system of constructs and interfaces that provides a common run-time environment and run-time services for all Language Environment-conforming programming language products (those products that adhere to Language Environment’s common interface).

**z/OS Language Environment Customization**

SA22-7564

Explains how to customize and maintain Language Environment for z/OS.

**z/OS Language Environment Debugging Guide**

GA22-7560

Explains how to debug applications that run with Language Environment, get details on run-time messages, and diagnose problems with Language Environment. Provides assistance with detecting and locating programming errors that occur during run time under Language Environment. It can help you establish a debugging process to analyze data and narrow the scope and location of where an error might have occurred. You can read about how to prepare a routine for debugging, how to classify errors, and how to use the debugging facilities Language Environment provides. Also included are chapters on debugging HLL-specific routines and routines that run under CICS.

**z/OS Language Environment Programming Guide**

SA22-7561

Describes how to:

- Prelink, link, and run (under MVS, TSO/E, or z/OS UNIX System Services) single-language applications written in IBM C, C++, COBOL, PL/I, Fortran, and assembler.
- Effectively use Language Environment callable services and run-time options.
- Understand and use Language Environment initialization and termination, program management, storage management, condition handling, NLS, Date/Time, and locale support.

**z/OS Language Environment Programming Guide for 64-bit Virtual Addressing Mode**

SA22-7559

Describes how to:

- Prelink, link, and run single-language applications using 64-bit virtual addressing mode and written in IBM C, C++, and assembler.
Language Environment

- Effectively use Language Environment callable services and run-time options for 64-bit addressing.
- Understand and use Language Environment initialization and termination, program management, storage management, condition handling, NLS, Date/Time, and locale support.

**z/OS Language Environment Programming Reference**
SA22-7562
Provides application programmers with a detailed description of each Language Environment run-time option and callable service, as well as information on how to use them. It also provides programming examples that illustrate how each callable service can be used in routines written in Language Environment-conforming high-level languages (HLLs) and assembler language.

**z/OS Language Environment Run-Time Messages**
SA22-7566
Contains run-time messages and return codes for Language Environment and supported high-level languages, including C/C++, Fortran, PL/I, VisualAge® PL/I, and COBOL.

**z/OS Language Environment Run-Time Application Migration Guide**
GA22-7565
Provides an overview of the steps required to migrate applications for use with Language Environment. This document is designed to help you create a broad migration strategy. This document will help you identify which modules can be migrated first, and which will require relinking or recompiling. It also explains how to use Language Environment run-time options to achieve behavior that is compatible with your old modules.

The following run-time migration guides for specific languages are also provided in softcopy on the z/OS Collection.

- **Enterprise COBOL for z/OS Migration Guide** (GC23-8527)
- **z/OS XL C/C++ Compiler and Run-Time Migration Guide for the Application Programmer** (GC09-4913)
- **Enterprise COBOL for z/OS Programming Guide** (GC27-1409)
- **COBOL for OS/390 & VM Compiler and Run-Time Migration Guide** (GC26-4764)
- **Enterprise PL/I for z/OS Migration Guide** (GC27-1458)
- **VisualAge PL/I for OS/390 Compiler and Run-Time Migration Guide** (SC26-9474)
- **PL/I for MVS & VM Compiler and Run-Time Migration Guide** (SC26-3118)
- **Language Environment for MVS & VM Fortran Run-Time Migration Guide** (SC26-8499)

**z/OS Language Environment Writing Interlanguage Communication Applications**
SA22-7563
Describes how to create and run applications that contain interlanguage communication with Language Environment.

**z/OS Language Environment Vendor Interfaces**
SA22-7568
Documents the set of low-level interfaces, or compiler-writer interfaces
(CWIs), that can be used between the common run-time component and C, C++, COBOL, Fortran, PL/I, VisualAge PL/I, and other member run-time components of Language Environment.

**Library Server**

This section describes documents for Library Server, previously known as BookManager BookServer.

*z/OS IBM BookManager BookServer for World Wide Web: Getting Started*

Describes the features of the BookManager BookServer product for Web servers. It provides information for both administrators and users. With IBM BookManager BookServer, administrators can create a library of BookManager electronic documents and make it available on the Internet. Users can read and search for information in these electronic documents using any Web browser such as Netscape.

*Library Server: Getting Started*

Describes the z/OS Library Server and how to use and configure the z/OS LibraryCenter.

**Managed System Infrastructure for Setup**

This section describes the documents that support Managed System Infrastructure for Setup (msys for Setup).

*z/OS Managed System Infrastructure for Setup Installation*

Provides instructions for setting up an environment for msys for Setup and for installing and maintaining msys for Setup. It describes the system environments and the hardware and software requirements for using msys for Setup.

*z/OS Managed System Infrastructure for Setup Messages*

Contains the messages that are issued by the msys for Setup host and workstation components.

*z/OS Managed System Infrastructure for Setup User’s Guide*

Provides an overview of the objectives and structure of msys for Setup. It describes how to set up products on a z/OS system using the msys for Setup workplace interface.

**Metal C Runtime Library**

This section describes the document that supports Metal C Runtime Library.

*z/OS Metal C Programming Guide and Reference*

Provides instructions for users of the z/OS or z/OS.e C/C++ compiler who are using the Metal C compiler option. It contains an introduction, descriptions of C functions and header files, an appendix on stack
requirements, It also contains advanced guidelines and information for developing C and C++ programs to run on the z/OS or z/OS.e operating systems.

MVS

This section describes documents for MVS (Base Control Program).

z/OS Capacity Provisioning
SC33-8299
Describes capacity planning on z/OS.

z/OS MVS Device Validation Support
SA22-7586
Describes the requirements for I/O devices that are not supported.

z/OS MVS Diagnosis: Reference
GA22-7588
Provides system reference material needed for diagnosing system problems. It describes the problem data that is available in dumps and traces and also explains how to request and format that data.

z/OS MVS Diagnosis: Tools and Service Aids
GA22-7589
Describes how to use IBM tools (such as dumps and traces) and service aid programs (LIST and SPZAP) to diagnose and fix problems in system and application programs.

z/OS MVS Dump Output Messages
SA22-7590
Provides a single dump message reference for the interactive problem control system (IPCS), the MVS components that provide IPCS formatters, and TSO/E.

z/OS MVS Initialization and Tuning Guide
SA22-7591
Contains information about tasks related to MVS initialization, with a major focus on the use of SYS1.PARMLIB to manage system resources. Its companion document, z/OS MVS Initialization and Tuning Reference, describes the members of SYS1.PARMLIB in detail.

z/OS MVS Initialization and Tuning Reference
SA22-7592
Describes the function, use, and format of each member of SYS1.PARMLIB. It contains reference information related to many MVS components and to other products.

z/OS MVS Installation Exits
SA22-7593
Describes the installation exits available for modifying the MVS element of z/OS.

z/OS MVS IPCS Commands
SA22-7594
Provides reference information about the IPCS commands, subcommands,
and dialog commands. The document describes how to use IPCS and gives examples of subcommand syntax and output generated by the subcommands.

**z/OS MVS IPCS Customization**
SA22-7595

Provides IPCS programming requirements and explains how to customize access to IPCS and the IPCS dialog. The programmer can use this document when writing IPCS exit routines, using IPCS-shipped CLISTs, and setting IPCS defaults.

**z/OS MVS IPCS User’s Guide**
SA22-7596

Explains how to access IPCS, presents the IPCS full-screen dialog, and provides information about the IPCS subcommands.

**z/OS MVS JCL Reference**
SA22-7597

Describes how to code JCL, JES2, and JES3 control statements needed to perform the job control tasks presented in **z/OS MVS JCL User’s Guide**.

**z/OS MVS JCL User’s Guide**
SA22-7598

Describes the job control tasks needed to submit jobs into the operating system, control the system’s processing of jobs, and request the resources needed to run jobs. Its companion document, **z/OS MVS JCL Reference**, provides JCL coding information.

**z/OS MVS Planning: APPC/MVS Management**
SA22-7599

Presents an overall picture of APPC/MVS as it relates to the rest of MVS, Systems Application Architecture®, and APPC, to help integrate APPC/MVS into existing configurations.

**z/OS MVS Planning: Global Resource Serialization**
SA22-7600

Describes how to plan, install, operate, and tune a global resource serialization complex.

**z/OS MVS Planning: Operations**
SA22-7601

Provides the information that a system programmer needs to understand how to plan MVS operations. Its primary focus is on how to plan an MVS console configuration.

**z/OS MVS Planning: Workload Management**
SA22-7602

Describes workload management concepts and interfaces. It includes the steps required for using workload management and the benefits of using it.

**z/OS MVS Product Management**
SA22-7603

Explains two usage pricing methods: S/390® Usage Pricing and Measured Usage License Charges. Also explains S/390 dynamic enablement externals for a product administrator. The document describes the data
MVS

analysis utility covering both data collecting and reporting. It also describes how to change the enablement policy and provides information about the enablement report.

*z/OS MVS Program Management: Advanced Facilities*
SA22-7644
Describes the programming interfaces provided by the program management component of z/OS. It describes the Binder Application Programming Interface, macros, user exits, and buffer formats.

*z/OS MVS Program Management: User’s Guide and Reference*
SA22-7643
Describes the end user interfaces provided by the program management component of z/OS. It contains an overview of the components, describes how to create executable programs from source modules, use the program management binder (starting, defining input, editing data, options, control statements), the linkage editor, and the batch loader.

*z/OS MVS Programming: Assembler Services Guide*
SA22-7605
Describes how to use MVS services for unauthorized assembler language programs. This document also contains guidelines and suggested coding practices for coding in 31-bit addressing mode and for modifying programs that use 24-bit addressing mode to use 31-bit addressing mode. If you are relatively new to assembler language programming for MVS, this document is a good place to start.

Its companion documents, *z/OS MVS Programming: Assembler Services Reference ABE-HSP* and *z/OS MVS Programming: Assembler Services Reference IAR-XCT* describe coding the macros that invoke these MVS services.

*z/OS MVS Programming: Assembler Services Reference, Volumes 1–2*
SA22-7606
*z/OS MVS Programming: Assembler Services Reference ABE-HSP*
SA22-7607
*z/OS MVS Programming: Assembler Services Reference IAR-XCT*
These volumes describe how to code the macros and callable services that invoke the services of MVS. These macros and callable services are available to all assembler language programs.

*z/OS MVS Programming: Authorized Assembler Services Guide*
SA22-7608
Describes how to use MVS services for authorized assembler language programs. Its companion documents, *z/OS MVS Programming: Authorized Assembler Services Reference, Volumes 1–4*, describe coding the macros that invoke these services.

*z/OS MVS Programming: Authorized Assembler Services Reference, Volumes 1–4*
SA22-7609
*z/OS MVS Programming: Authorized Assembler Services Reference ALE-DYN*
SA22-7610
*z/OS MVS Programming: Authorized Assembler Services Reference EDT-IXG*
Describe how to code the macros and callable services that are available only to authorized assembler language programs.

**z/OS MVS Programming: Callable Services for High-Level Languages**

**SA22-7613**

Describes the callable services available to the programmer coding in a high-level language such as COBOL, FORTRAN, C, Pascal, and PL/1. These services are also available to assembler language programmers.

**z/OS MVS Programming: Extended Addressability Guide**

**SA22-7614**

Describes how to use cross memory services and extended addressability techniques, such as data spaces and hiperspaces to extend the virtual storage available to programs.

**z/OS MVS Programming: JES Common Coupling Services**

**SA22-7615**

Provides MVS and JES system programmers with both guidance and reference information on how to use the JES common coupling services assembler macros and installation exits to affect JES communication processing in a sysplex environment.

**z/OS MVS Programming: Product Registration**

**SA22-7604**

Provides guidance and reference information for the registration callable services, which are used to register an element or prepare an optional feature for dynamic enablement.

**z/OS MVS Programming: Resource Recovery**

**SA22-7616**

Describes how to use recoverable resource management services (RRMS) in a resource manager that provides access to protected resources. Resource recovery services (RRS), a system component, is the sync-point manager. While this document is primarily for experienced programmers, it also describes managing RRS at an installation, including information about using system logger with RRS and running RRS.

**z/OS MVS Programming: Sysplex Services Guide**

**SA22-7617**

Describes how to use the sysplex services available to assembler language programs that participate in a sysplex, communicate with other members of a sysplex, benefit from automatic restarts, and share data using the coupling facility.

**z/OS MVS Programming: Sysplex Services Reference**

**SA22-7618**

Describes how to code sysplex services for assembler language programs that participate in a sysplex, communicate with other members of a sysplex, benefit from automatic restarts, and share data using the coupling facility.
MVS

z/OS MVS Programming: Workload Management Services
SA22-7619
Describes the services intended for use by subsystem work managers and performance monitoring products.

z/OS MVS Programming: Writing Servers for APPC/MVS
SA22-7620
Provides the information that an application developer needs to write servers for use in an APPC/MVS environment.

z/OS MVS Programming: Writing Transaction Programs for APPC/MVS
SA22-7621
Provides the information that an application programmer needs to write APPC transaction programs for use on MVS.

z/OS MVS Programming: Writing Transaction Schedulers for APPC/MVS
SA22-7622
Provides the information that an application programmer or system programmer needs to write transaction schedulers other than the one provided by APPC/MVS.

z/OS MVS Setting Up a Sysplex
SA22-7625
Provides the information that a system programmer needs to plan, install, and tune MVS systems in a sysplex. It includes information about the policies available for managing a sysplex as well as information about the coupling facility.

z/OS Support for Unicode: Using Unicode Services
SA22-7649
This manual provides information for setting up and using the z/OS Support for the Unicode product. The manual also includes a complete list of the IBM-supplied conversion tables.

z/OS MVS System Codes
SA22-7626
Describes system completion and wait state codes.

z/OS MVS System Commands
SA22-7627
Describes the system commands available to control an MVS system.

z/OS MVS System Management Facilities (SMF)
SA22-7630
Provides information for system programmers who implement policies and procedures to account for data processing costs. This task includes deciding how to apportion data processing costs to data processing users and using SMF record data to obtain the required information about the use of system resources.

z/OS MVS System Messages, Volumes 1–10
SA22-7631

z/OS MVS System Messages, Vol 1 (ABA-AOM)
SA22-7632
z/OS MVS System Messages, Vol 2 (ARC-ASA)
Describe the messages issued by MVS and other z/OS elements, and suggests appropriate operator, system programmer, and application programmer responses.

**z/OS MVS Using the Functional Subsystem Interface**

**SA22-7641**

Describes the functional subsystem interface (FSI) and shows how a functional subsystem (FSS) and a job entry subsystem (JES) communicate using the FSI.

**z/OS MVS Using the Subsystem Interface**

**SA22-7642**

Provides information needed both to write a subsystem and to invoke subsystem services. This document describes the subsystem interface (SSI) and provides detailed, uniform descriptions of the subsystem interface function codes and examples that help users understand them.

---

**Network File System**

This section describes documents for Network File System.

**z/OS Network File System Guide and Reference**

**SC26-7417**

This book is a combination of three earlier z/OS NFS books. It describes techniques for:

- accessing and creating MVS data sets from a client environment using the NFS protocol
- customizing and operating the z/OS Network File System server
- diagnosing and tuning NFS on z/OS.

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**Open Systems Adapter Support Facility**

This section describes documents for the Open Systems Adapter Support Facility.

**System z10, System z9 and zSeries OSA-Express Customer's Guide and Reference**

**SA22-7935**

Describes how to define and use the Open Systems Adapter-Express feature and the Open Systems Adapter Support Facility (OSA/SF) for
OSA/SF

zSeries processors. An OSA-Express is an integrated zSeries hardware feature that combines the functions of an I/O channel with the functions of a network port to provide direct connectivity between eServer applications and their clients on the attached network.

**z900: OSA-2 Planning Guide**
GA22-7477
Describes how to install and use the Open Systems Adapter-2 feature and the Open Systems Adapter Support Facility (OSA/SF).

**OSA-ICC User's Guide**
SA22-7990
Describes how to use the Open Systems Adapter Integrated Controller.

Parallel Sysplex

This section describes documents for Parallel Sysplex®. For help setting up a Parallel Sysplex, see [z/OS Parallel Sysplex Customization Wizard](http://www.ibm.com/systems/z/os/zos/wizards/) at:

**z/OS Parallel Sysplex Application Migration**
SA22-7662
Contains planning considerations for the parallel processing of applications that run on Customer Information Control System (CICS)/ESA and Information Management System (IMS)/ESA.

**z/OS Parallel Sysplex Overview**
SA22-7661
Provides an overview of the sysplex and coupling facility data sharing. It describes basic concepts and the value of the sysplex to your business.

Resource Measurement Facility (RMF)

This section describes documents for Resource Measurement Facility.

**z/OS RMF Messages and Codes**
SC33-7993
Explains messages.

**z/OS RMF NewsFLASH**
SC33-7995
Provides most current information about RMF™ and RMF-related tools.

**z/OS RMF Performance Management Guide**
SC33-7992
Describes how to optimize performance management.

**z/OS RMF Programmer’s Guide**
SC33-7994
Describes Resource Measurement Facility programming interfaces.

**z/OS RMF Reference Summary**
SX33-9033
Describes all Resource Measurement Facility commands and options.

**z/OS RMF Report Analysis**
Resource Measurement Facility

SC33-7991
Describes the content of all Resource Measurement Facility reports.

z/OS RMF User’s Guide
SC33-7990
Describes all relevant tasks belonging to performance management.

REXX Alternate Library
This section describes the documents for REXX Alternate Library.

IBM Compiler and Library for REXX on System z: User’s Guide and Reference
SH19-8160
Describes how to compile and run programs written in the Restructured EXtended eXecutor (REXX) language. It describes how to use the:
• IBM Compiler for REXX on zSeries (referred to as the Compiler)
• IBM Library for REXX on zSeries (referred to as the Library)

IBM Compiler and Library for REXX on System z: Diagnosis Guide
SH19-8179
Provides information to help system programmers and IBM service personnel to diagnose problems encountered when using the:
• IBM Compiler for REXX on zSeries (referred to as the Compiler)
• IBM Library for REXX on zSeries (referred to as the Library)

Run-Time Library Extensions
This section describes documents for the C/C++ Compiler feature. For related books of the z/OS C/C++ Compiler features, see XL C/C++ Compiler on page 52.

z/OS Common Debug Architecture User’s Guide
SC09-7653
Common Debug Architecture User’s Guide introduces the user to Common Debug Architecture (CDA). It first provides a high-level overview of CDA. The document then illustrates how to use the CDA libraries and utilities, through explanations and examples. Finally, it shows an example implementation, using the utilities that are shipped with CDA.

z/OS Common Debug Architecture Library Reference
SC09-7654
Common Debug Architecture Library Reference is the reference for the Common Debug Architecture (CDA) library, libddpi. It provides a brief overview of CDA, but the majority of the document is a detailed description of every API and type. CDA is written in the C programming language. CDA is based on ELF application binary interfaces (ABIs) and the DWARF format.

DWARF/ELF Extensions Library Reference
SC09-7655
DWARF/ELF Extensions Library Reference is intended for programmers who will be developing program-analysis applications and debugging applications for the IBM C/C++ compiler on the z/OS operating system. These applications will create or query information from ELF objects and DWARF debugging information on the z/OS operating system.
This section describes the document for SDSF.

**z/OS SDSF Operation and Customization**
SA22-7670
Describes ISFPARMS, security, operation of the SDSF server, and problem determination, including messages and codes.

For help in configuration that is required for sysplex support on device and browse panels, see the **z/OS SDSF Customization Wizard** at [http://www.ibm.com/systems/z/os/zos/wizards/](http://www.ibm.com/systems/z/os/zos/wizards/)

### Security Server

This section describes documents for the z/OS Security Server (RACF).

**z/OS Security Server RACROUTE Macro Reference**
SA22-7692
Describes the RACF system macros and explains how to code the interfaces.

**z/OS Security Server RACF Auditor’s Guide**
SA22-7684
Describes auditing considerations as well as how to use the SMF data unload facility, the RACF report writer, and the data security monitor.

**z/OS Security Server RACF Callable Services**
SA22-7691
Describes the RACF callable services and explains how to code the interfaces.

**z/OS Security Server RACF Command Language Reference**
SA22-7687
Contains the functions and syntax of all the RACF commands.

**z/OS Security Server RACF Data Areas**
GA22-7680
Contains descriptions of the data areas used by RACF.

**z/OS Security Server RACF Diagnosis Guide**
GA22-7689
Explains how to diagnose problems in RACF.

**z/OS Security Server RACF Macros and Interfaces**
SA22-7682
Describes each product macro and its syntax and explains how to code the interfaces.

**z/OS Security Server RACF Messages and Codes**
SA22-7686
Contains the RACF messages, routing and descriptor codes, RACF manager return codes, and RACF-related system completion codes.

**z/OS Security Server RACF Security Administrator’s Guide**
Security Server

SA22-7683
Explains RACF concepts and describes how to plan for and implement RACF.

z/OS Security Server RACF System Programmer's Guide
SA22-7681
Describes how to modify and maintain RACF.

z/OS Security Server RACF General User's Guide
SA22-7685
Explains how general users can perform basic security tasks with RACF, such as protecting data sets and general resources.

SMP/E

This section describes documents for SMP/E.

SMP/E Commands
SA22-7771
Contains detailed information about the syntax and processing of SMP/E commands and associated reports.

SMP/E Messages, Codes, and Diagnosis
GA22-7770
Explains how to handle and diagnose suspected SMP/E problems. Lists the messages issued by SMP/E, explains why they may be issued, and tells how to respond to them. It also lists the return codes that may be issued for each SMP/E command, explains what they mean and how to respond to them, and provides error recovery procedures for each command.

SMP/E Reference
SA22-7772
Contains detailed information about the syntax and processing of SMP/E MCS statements. Also describes the data sets required by SMP/E commands, explains the contents of the entries used by SMP/E to manage the system, and explains the output produced by SMP/E. It explains how to use the SMP/E user exit routines and service routines, provides information on how to tailor SMP/E processing, and documents the intended programming interfaces.

SMP/E User’s Guide
SA22-7773
Describes how to use SMP/E. It contains an overview of SMP/E and the data sets it uses, describes how to install software, and explains how to use SMP/E to manage the system.

TSO/E

This section describes documents for TSO/E.

z/OS TSO/E Administration
SA22-7780
Describes ways to define users to TSO/E through the ACCOUNT command and through the Information Center Facility services. It also provides detailed information about maintaining the Information Center Facility services.
z/OS TSO/E CLISTs
SA22-7781
Contains information about creating, structuring, and executing CLISTs.

z/OS TSO/E Command Reference
SA22-7782
Contains syntax information for non-authorized TSO/E commands and Session Manager tasks. Authorized commands are described in z/OS System Programming Command Reference.

z/OS TSO/E Customization
SA22-7783
Contains the information necessary to customize and maintain a TSO/E system.

z/OS TSO/E General Information
SA22-7784
Contains an overview of the TSO/E element of z/OS. It explains the purpose and benefits of TSO/E, the functions and tools available to end users and programmers, and introduces the customization, administration, and diagnosis aspects of TSO/E.

z/OS TSO/E Guide to SRPI
SA22-7785
Explains how to write a server to receive a service request, process the request, and return a reply to the requester. The document includes a sample server, along with information about installing, testing, and debugging servers for use with the TSO/E Enhanced Connectivity Facility.

z/OS TSO/E Messages
SA22-7786
Contains descriptions and the detecting module for TSO/E messages that are displayed on the screen, and MVSSERV messages that are written to a trace data set.

z/OS TSO/E Primer
SA22-7787
Explains simple concepts and leads new users through basic TSO/E tasks, such as logon, use of panels and data sets, and sending and receiving information. It shows them how to use the Information Center Facility, issue line mode TSO/E commands, and access ISPF/PDF.

z/OS TSO/E Programming Guide
SA22-7788
Explains how to write application programs that run under TSO/E, such as CLISTs, REXX execs, command processors, servers, and callable programs.

z/OS TSO/E Programming Services
SA22-7789
Describes TSO/E services including the parse service routine, I/O service routines, space management service, table look-up service, printer support CLISTs, and the TSO/E environment service. It also explains how to access the Information Center Facility names directory from an application program.
**UNIX System Services**

This section describes documents for
- z/OS UNIX System Services Shells, Utilities, and Debugger
- z/OS UNIX System Services Parallel Environment
- z/OS UNIX System Services Connection Manager
- z/OS UNIX System Services Process Manager

If you are installing and customizing z/OS UNIX System Services for the first time, see the z/OS UNIX Customization Wizard at:
http://www.ibm.com/systems/z/os/zos/wizards/

**z/OS UNIX System Services Command Reference**
SA22-7802
Provides information that is needed to use a z/OS system with the shell and utilities feature as well as TSO/E commands for using z/OS UNIX.

**z/OS UNIX System Services Connection Scaling Reference for iBaanERP Solutions**
SA22-7809
Provides information about the installation, programming interfaces, and problem determination tools available for the Connection Manager and Process Manager components of z/OS UNIX System Services.

**z/OS UNIX System Services File System Interface Reference**
SA22-7808
Provides details for coding to the z/OS UNIX System Services file system interface.
**z/OS UNIX System Services**

- **z/OS UNIX System Services Messages and Codes**
  - SA22-7807
  - Explains the messages, return, and reason codes that occur in the z/OS UNIX shells or debugger.

- **z/OS UNIX System Services Parallel Environment: MPI Programming and Subroutine Reference**
  - SA22-7812
  - Lists the subroutines a programmer can use when writing parallel applications, along with the associated parameters and syntax.

- **z/OS UNIX System Services Parallel Environment: Operation and Use**
  - SA22-7810
  - Provides information for end users and application developers on how to compile, run, and analyze parallel programs

- **z/OS UNIX System Services Planning**
  - GA22-7800
  - Contains information needed to plan for the use of UNIX System Services in a z/OS environment.

- **z/OS UNIX System Services Programming: Assembler Callable Services Reference**
  - SA22-7803
  - Describes z/OS UNIX callable services.

- **z/OS UNIX System Services Programming Tools**
  - SA22-7805
  - Describes advanced application programming tools, such as make and dbx.

- **z/OS UNIX System Services User’s Guide**
  - SA22-7801
  - Describes how to use the z/OS UNIX shells and file system.

- **z/OS Using REXX and z/OS UNIX System Services**
  - SA22-7806
  - Describes how to use the REXX programming language to access z/OS UNIX System Services.

**XL C/C++ Compiler**

This section describes documents for the XL C/C++ Compiler feature. For related books of the Run-Time Library Extensions element of z/OS, see “Run-Time Library Extensions” on page 47.

- **z/OS XL C/C++ Language Reference**
  - SC09-4815
  - Provides reference information for the C and C++ programming languages as implemented in the z/OS C/C++ compilers.

- **z/OS C Curses**
  - SA22-7820
  - Describes programming for the screen management orders known as curses.

- **z/OS XL C/C++ Compiler and Run-Time Migration Guide for the Application Programmer**
XL C/C++ Compiler

GC09-4913
Provides information for programmers who are migrating to the z/OS C/C++ compiler and the Language Environment run-time library. It discusses migration from the C/370®, AD/Cycle® C/370, C/C++ for MVS/ESA™, and previous z/OS C/C++ compilers; the C/370 libraries; and previous releases of Language Environment.

Standard C++ Library Reference
SC09-4949
This document provides a technical reference on the details of the Standard C++ Library.

z/OS XL C/C++ Messages
GC09-4819
Describes C/C++ messages and suggests appropriate operator, system programmer, and application programmer responses.

z/OS XL C/C++ Programming Guide
SC09-4765
Provides guidance on how to write C/C++ programs for the z/OS C/C++ compiler and the C/C++ run-time library component of z/OS Language Environment.

z/OS XL C/C++ Run-Time Library Reference
SA22-7821
Contains information for all z/OS C/C++ library functions (except for z/OS C Curses).

z/OS XL C/C++ User's Guide
SC09-4767
Describes the processes of compiling, IPA linking, binding, prelinking and linking, and running both z/OS C and z/OS C++ programs. This document includes information on compiler options, listings, z/OS C/C++ utilities, compiler messages, and program diagnosis.
XL C/C++ Compiler
Chapter 3. z/OS document order numbers

The following table contains the order numbers for z/OS documents for each release.

The **Title** column contains the full title of the document. The **Release** column contains the form number applicable to that release. For information about how to order hardcopy documents, see Chapter 1, "Ordering, accessing, and printing z/OS documentation," on page 1.

With the exception of those documents marked with an asterisk, all documents are available in PDF and BookManager format on the **z/OS Version 1 Release 11 Collection** and on the Internet. Generally, most documents are not orderable in hardcopy. An asterisk (\*) next to a title indicates that the document is shipped in hardcopy with z/OS. The document is also available in PDF and BookManager format on the **z/OS Version 1 Release 11 Collection** and on the Internet. The notation **HC** next to a title indicates that the document can be ordered for a fee in hardcopy. The document is also available in PDF and BookManager format on the **z/OS Version 1 Release 11 Collection** and on the Internet. The notation **Web** next to a title indicates that the document is available only on the Internet, in PDF and BookManager format. The document is not on the **z/OS Version 1 Release 11 Collection**, nor is it orderable in hardcopy.

Each time a document is refreshed, whether in softcopy only or both in hardcopy and softcopy, the suffix (dash) level of the document is increased. This increase means that sometimes you might not be able to order a hardcopy of the latest suffix level of a document (for example, if it was refreshed only in softcopy between z/OS releases). See the document abstract for information about how to obtain softcopy. To order hardcopy, you might need to select a lower suffix level in these cases.

If you are reading this document in PDF or BookManager form, in the same directory or bookshelf with the softcopy documents it refers to, you can open a referenced document in this section by placing the cursor under the highlighted title and pressing Enter.

**Table 1. z/OS titles, order numbers, and media**

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### Cryptographic Services

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Order Numbers by Release

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