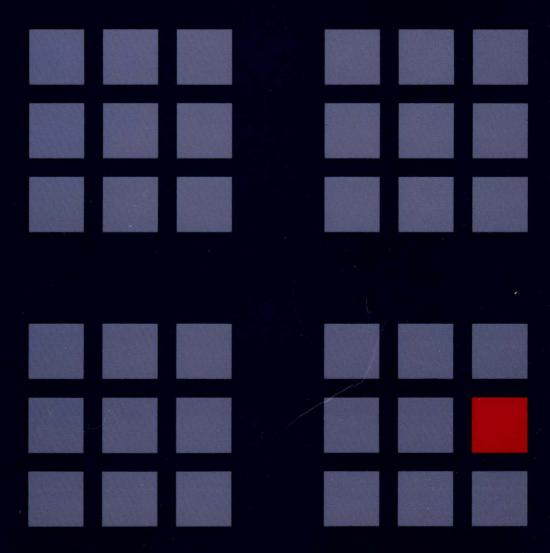
Virtual Machine/System Product High Performance Option

# **Library Guide and Master Index**

Release 6



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Virtual Machine/System Product High Performance Option GC23-0187-4

# **Library Guide and Master Index**

Release 6

The term "VM/SP High Performance Option" applies to the VM/SP High Performance Option Licensed Program when used in conjunction with the VM/System Product Licensed Program.

#### Fifth Edition (June 1989)

This is a major revision of GC23-0187-3.

This edition applies to Release 6 of IBM Virtual Machine/System Product High Performance Option (program number 5664-173). To order previous editions of the VM/SP HPO Library Guide, Glossary, and Master Index, use the following temporary order numbers:

Release 5

GT00-2749-00

Release 4.2

GT00-1914-00

Changes are made periodically to the information herein; before using this publication to operate IBM systems, consult the latest *IBM System/370*, 30xx, and 4300 and 9370 Processors Bibliography, GC20-0001, for the editions that are applicable and current.

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### **Preface**

## **Purpose of This Book**

This manual explains the organization of the VM/SP HPO library and provides a master index to the contents of the library.

### **Who Should Read This Book**

The audience for this manual consists of anyone who uses manuals in the VM/SP HPO library.

### **What This Book Contains**

This book describes how the library is organized and which manual to read first. It explains the tasks, cover design, and the relationships between the tasks and the colors of the covers. It also describes the changes to the library for Release 6, discusses the publications that are shipped with the product tape, and tells how to order additional copies of publications. It contains abstracts of the manuals in the VM/SP HPO library.

The "Master Index" is a guide to the VM/SP HPO library. It directs you to the publications that contain the specific information you are seeking. The entries are extracted from the indexes of the VM/SP HPO publications listed at the beginning of the chapter.

The "Master Index Table" lists the abbreviations and order numbers for each of the VM/SP HPO publications. This table is repeated on a foldout sheet at the end of the manual.

## **How To Use This Book**

When using this publication, you should:

- Refer to Chapter 1 to learn about the organization of the VM/SP HPO library, the related VM/SP library, and the contents of the individual manuals in the library. Use Chapter 1 to determine whether a manual is really the correct one for your needs.
- Refer to Chapter 2 for a specific item of VM/SP HPO information; this section points you to the publication(s) containing information about a particular subject. Use this chapter to determine the appropriate manual, by topic.

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# **Chapter 1. The VM/SP HPO Library**

In this chapter you can learn about the organization of the entire library as well as the contents of the individual manuals. This information will help you determine the proper VM/SP HPO manual for your needs. This chapter also discusses the publications that you receive with the product tape and how to order additional copies.

#### What Manual Should I Read First?

Each VM/SP HPO manual focuses on one task (like installation). In it are smaller subtasks (like installing hardware or installing an optional program). We suggest that you read the VM/SP HPO Release 6 Guide first. It provides current users with a synopsis of the functional enhancements offered by Release 6. It describes functional enhancements, defines the related user interfaces, and gives examples of their use. Once you have read this manual, you can more easily decide what other manuals you will want to use. Remember, any manual you choose depends on the task you want to do.

#### **How Do I Use an Individual Manual?**

The first time you use a manual, start with its Preface. This will introduce you to the manual's:

- Purpose
- Audience
- Main subject.

Next, look at the Bibliography. This gives you a list of:

- Fundamental IBM publications
- VM/SP HPO and VM/SP publications
- Additional publications related to the material in that particular manual.

If you want to locate a subtask in a manual:

- Look at the Table of Contents in the front. In it you will see what each chapter and appendix contains.
- Look at the *Index* in the back. Its pages contain detailed references to the manual's contents.

If you want to know what has changed in a manual:

- Look at the Summary of Changes immediately preceding the Bibliography. It describes the support that was added since the previous release.
- Look at the revision bars to the left of the text. They highlight the lines that have been added or changed since the previous release. Revision bars appear to the left of the changed text, and provide a quick way to find the new or changed information. Look to the left of this sentence to see a revision bar.

If you want to comment about the manual or suggest improvements to it, fill out the postpaid reader's comment form included at the back. Users in countries other than the United States can submit their comments free by giving them to their IBM representative.

## What Are the Tasks that the VM Library Supports?

The VM/SP HPO library is organized according to nine major tasks that VM computer users do. The tasks are:

**Evaluation** Examining and judging the applicability of this release

to your installation.

Planning Making fundamental decisions about the options of

this release. Planning is an iterative task—many of the decisions are made before installation, continually evaluated after installation, and revised as appropriate.

Installation Making this release ready to do useful work.

Administration Managing your data processing resources. The

resources may be data files, data bases, programs,

users, and so on.

Customization Enhancing, extending, and otherwise altering this

release to meet an installation's special requirements.

Operation Getting this release running, monitoring it to keep it

operating, and shutting it down when no longer

needed.

Application Programming Designing, coding, compiling, executing, debugging,

and maintaining application programs to perform certain functions according to your installation's needs.

End Use Using the commands and macros provided by VM and

finding information throughout the library.

Diagnosis Identifying, describing, reporting, and correcting

problems.

#### **Binders Are Available**

Binders, made to coordinate with the manuals, are available. Binders and labels of manual titles that suggest a library organization can be ordered separately.

### **What Does the Cover Design Mean?**

The cover design of each manual is a graphic that is printed in a color that identifies the major task associated with the particular manual.

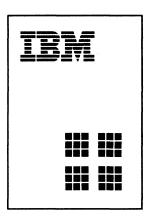


Figure 1. Cover Design

The graphic design on the covers and binder inserts represents the system image of VM. The individual squares represent multiple virtual machines within a real machine of a VM system. These squares form a plus sign, indicating that VM/SP HPO adds additional functions to VM/SP.

A portion of the cover design is printed in different colors on the covers of the manuals. The color represents the major task associated with the publication. The colors and tasks are as follows:

Blue	Evaluation
Green	Planning
Red	Installation
Purple	Diagnosis
Orange	Customization
Yellow	Operation
Cranberry	End Use
Turquoise	Administration

Pink **Application Programming** 

The library chart that follows shows you the task-oriented design of the VM/SP and VM/SP HPO libraries and related books.

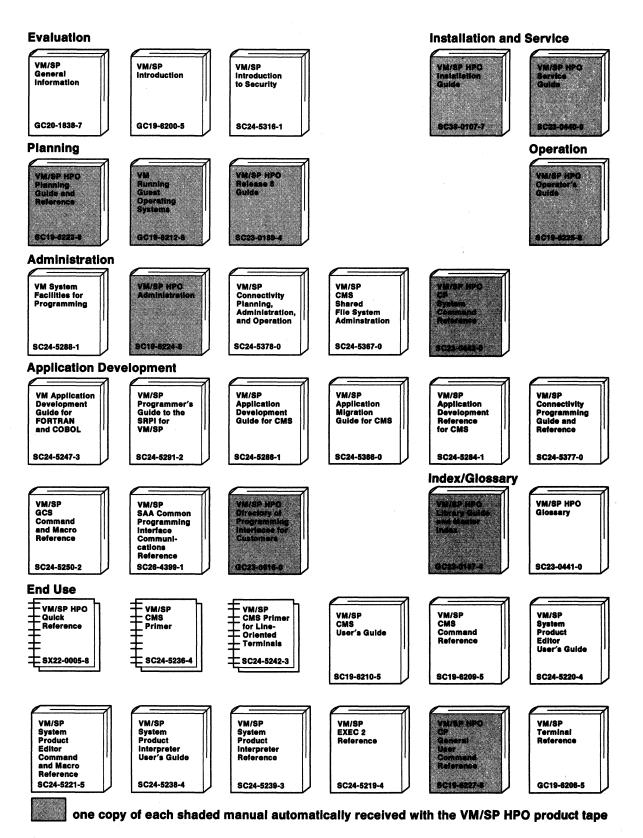


Figure 2 (Part 1 of 2). The VM/SP and VM/SP HPO libraries and related books

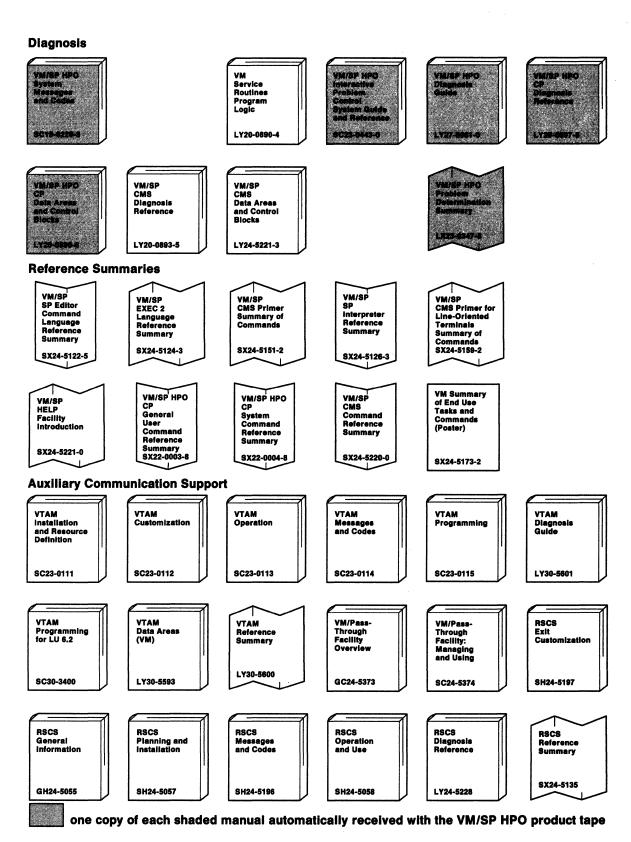


Figure 2 (Part 2 of 2). The VM/SP and VM/SP HPO libraries and related books

## **Manual Organization**

#### **Titles**

The first part of the title of a manual identifies the licensed program that is the subject of the manual; the subsequent parts more specifically identify the subject. For example, the first part of the title *Virtual Machine/System Product High Performance Option Planning Guide and Reference* identifies the product as a Virtual Machine/System Product High Performance Option, and the second part identifies the task that the manual describes, namely, planning for a system.

Certain words in the title indicate the level or kind of information that the manual contains. *Introduction* and *general information* indicate general and conceptual material, especially for licensed program manuals. These introductory manuals contain basic information on their subjects and develop the vocabulary used by more detailed manuals.

A guide generally contains procedural information or step-by-step instructions on how to do something; for example, the Virtual Machine/System Product High Performance Option Installation Guide.

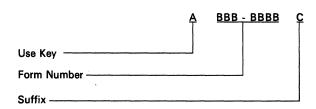
A reference manual is a source of information usually arranged alphabetically, such as the Virtual Machine/System Product High Performance Option CP General User Command Reference.

A logic manual is a kind of reference manual that describes the internal structure of a product, for example, Virtual Machine Service Routines Program Logic.

A messages manual is a kind of reference manual that lists and explains the communications that the system makes to the user and suggests appropriate responses or actions. Virtual Machine/System Product High Performance Option System Messages and Codes is an example of a title for a messages manual.

## Order Numbers, File Numbers, and Subject Codes

Each VM/SP HPO manual is identified by a unique order number. To order a particular manual, you should use this number. It consists of three parts: the use key, the form number, and the suffix.



The use key (A) is a letter that indicates the availability of the manual.

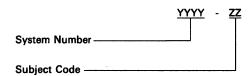
G, for general, means that the manual is available without charge to users of IBM systems.

S means that the manual is for sale.

L means that the manual is available only to licensed users of a particular licensed program.

The form number (B) uniquely identifies the manual. The suffix (C) helps to identify the revision version of the manual. The first edition of a manual has a suffix of 0.

File numbers appear on the back covers of the VM/SP HPO system manuals. These numbers are designed to aid filing in customer libraries and to provide an easy reference into the system bibliography. The file number consists of two parts: the system number and the subject code.



The system number for the VM/SP HPO library is S370.

The following list includes subject codes used in the VM/SP HPO library.

- 20 General Information: Evaluation, Flyers
- 34 System Planning, Installation, Generation, Administration, Performance, Resource Definition, SMF
- Control Program (e.g. Supervisor, JCL, IPL, Job Management, Data Areas, 36 Checkpoint/Restart)
- 37 Diagnosis, Problem Determination, Auditing, Service Aids
- 39 Time Sharing, Interactive System
- 40 Operations (e.g. Messages, Codes, Application Development)
- 50 DB/DC (CICS, IMS, ACF, GIS, DL/I,...)

For a complete list of subject codes, refer to the IBM System/370, 30xx, 4300, and 9370 Processor Bibliography, GC20-0001.

#### Ordering Release 6 Publications

Certain manuals (entitled manuals) in the VM/SP HPO Release 6 library will be shipped with the product tape. Automatic updates (new releases, technical newsletters and revisions between releases) will be sent automatically. These manuals are shaded on the two-page library organization chart beginning on page 4.

The manuals in the *Diagnosis* category of the library diagram whose order numbers begin with an L use-key are only available to licensed users. You can specify individual use-key L manuals to be shipped with the product by ordering their individual feature codes. These will be charged for, however.

The set which you will receive automatically does not include all the books that are available. You can order the other manuals in the Release 6 VM/SP HPO library, or multiple copies of any manual, through your IBM marketing representative. Use the order number, without the suffix, of the book(s) you need. This will ensure that you get the most current version.

You can also *subscribe* to these other manuals, or to multiple copies of any manual, by using the System Library Subscription Service (SLSS). See "System Library Subscription Service (SLSS)" on page 29 for more information about SLSS.

## What Are Some of the Changes in the Release 6 Library?

The structure of the VM Library is changed for VM/SP Release 6 and VM/SP HPO Release 6. The information is reorganized so that each book relates more closely to a specific task. Some publications have been eliminated, and the information is provided in new or reorganized publications. In addition, information is added for the new support in Release 6.

## What Publications Have Split?

The following publications split into two books:

- VM/SP HPO CP Command Reference is now:
  - VM/SP HPO CP General User Command Reference
  - VM/SP HPO CP System Command Reference.
- VM/SP HPO Library Guide, Glossary, and Master Index is now:
  - VM/SP HPO Library Guide and Master Index
  - VM/SP HPO Glossary.
- VM/SP HPO Installation Guide is now:
  - VM/SP HPO Installation Guide
  - VM/SP HPO Service Guide.

### **What Publications Are Renamed?**

The titles of the following books have changed:

- VM/SP HPO CP for System Programming is now VM/SP HPO Administration
- VM/SP HPO CP Command Reference is now VM/SP HPO CP General User Command Reference
- VM/SP HPO System Logic and Problem Determination Guide—CP is now VM/SP HPO CP Diagnosis Reference
- VM/SP HPO Data Areas and Control Block Logic—CP is now VM/SP HPO CP Data Areas and Control Blocks
- VM/SP HPO Service Routines Program Logic is now VM Service Routines Program Logic.

### What Publications Are New?

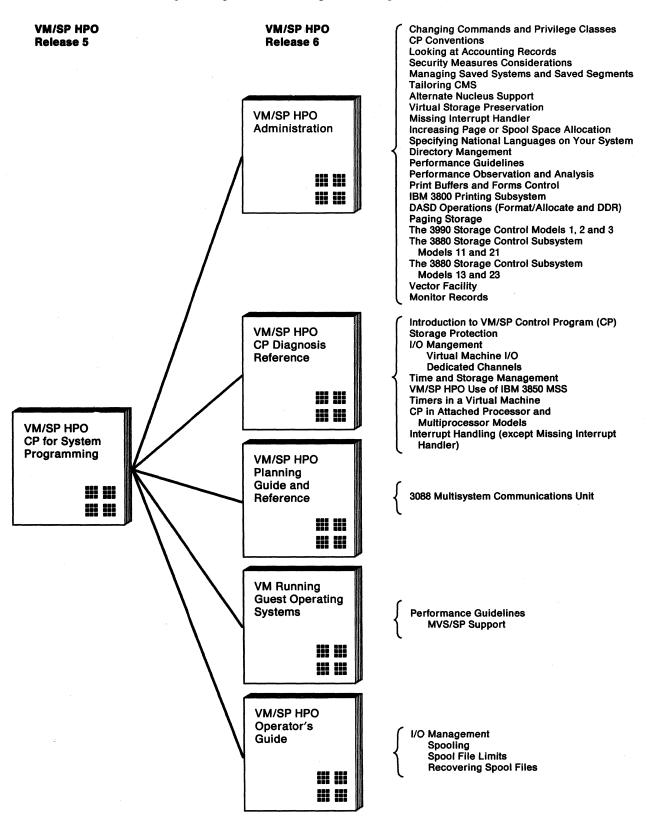
Some new titles that you will notice in this release are:

- VM/SP HPO CP System Command Reference
- VM/SP HPO Diagnosis Guide
- VM/SP HPO Interactive Problem Control System Guide and Reference
- VM/SP HPO Glossary
- VM/SP HPO Service Guide
- VM/SP HPO Directory of Programming Interfaces for Customers.

Refer to the following pages to find out how these publications fit into the structure of the library and to the "Abstracts of Manuals" on page 32 for descriptions of their contents.

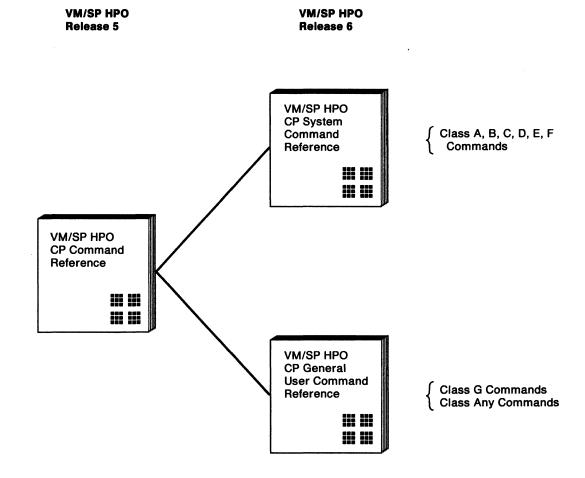
## **CP for System Programming Is Renamed and Reorganized**

You can now find the information that was in the VM/SP HPO CP for System Programming in the following Release 6 publications:



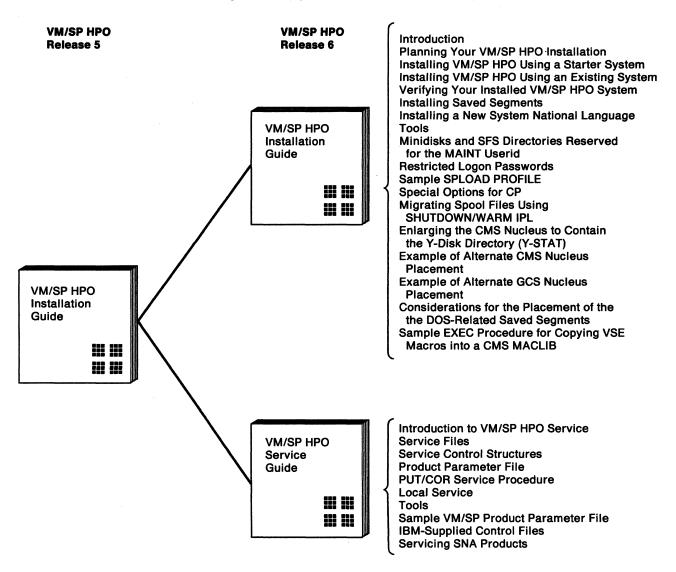
# **CP Command Reference is Split**

You can now find the information that was in the VM/SP HPO CP Command Reference in the following Release 6 publications:



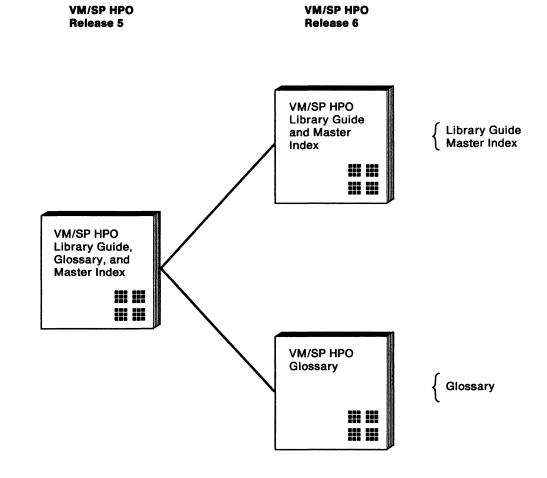
## **Installation Guide is Split**

You can now find the information that was in the VM/SP HPO Installation Guide in the following Release 6 publications:



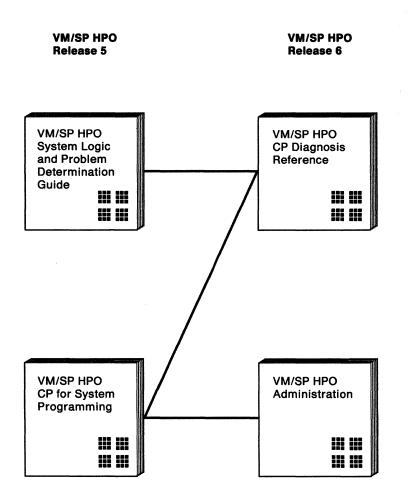
## Library Guide, Glossary, and Master Index is Split

You can now find the information that was in the VM/SP HPO Library Guide, Glossary, and Master Index in the following Release 6 publications:



## System Logic and Problem Determination Guide Is Renamed

The VM/SP HPO System Logic and Problem Determination Guide is renamed for Release 6 as the VM/SP HPO CP Diagnosis Reference and has incorporated some material from VM/SP HPO CP for System Programming.



Introduction to the VM/SP HPO **Control Program CP Commands and Messages** System Initialization Timer Management Storage Management Free Storage Management I/O Management Interrupt Handling Communication Facilities **Spool Management Error Management** System Failure Recovery The Attached Processor and **Multiprocessor Environments CP Annotated Flow Diagrams CP Module Entry Point Directory** Entry Points for CP Commands **Function Codes for DIAGNOSE** Instruction **Access Verification Routines Extended Control-Program Support** VM/SP HPO Use of the IBM 3850 Mass Storage System MVS/System Extensions/Product Support

Note: See the CP for System Programming manual reorganization diagram for list of contents

## **Operator's Guide is Reorganized**

Programming

The VM/SP HPO Operator's Guide has incorporated additional information from VM/SP HPO CP for System Programming for Release 6.

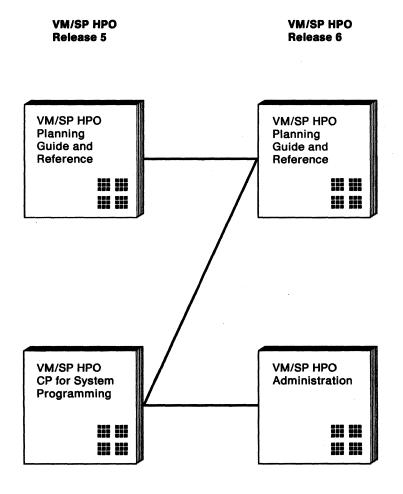
**VM/SP HPO VM/SP HPO** Release 5 Release 6 VM/SP HPO VM/SP HPO Introduction to Operational Control Operator's Operator's Starting VM/SP HPO Operation Guide Guide **CP and CMS Commands** The Programmable Operator Facility **Operator Spooling Functions** VM/SP HPO VM/SP HPO **CP for System** Administration Note:

See the CP for System Programming Manual reorganization diagram

for list of contents

## **Planning Guide and Reference is Reorganized**

The VM/SP HPO Planning Guide and Reference has incorporated additional information from VM/SP HPO CP for System Programming for Release 6.



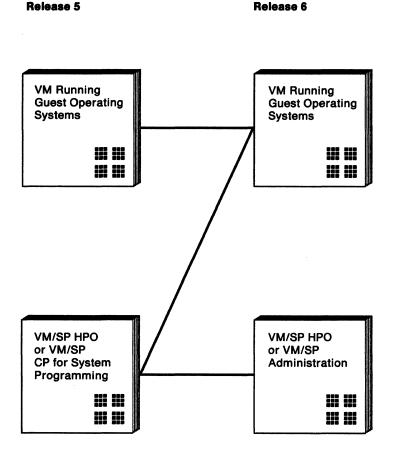
Introduction to Planning and VM/SP HPO Planning Device Configurations for VM/SP HPO **Estimating CP Storage Requirements** Planning for Other VM/SP HPO Areas Extending VM/SP HPO Planning for I/O Planning for Hardware Devices **Creating Your Directory** Preparing the Real I/O Configuration File (DMKRIO) Preparing the CP System Control File (DMKSYS) Preparing the System Name Table File (DMKSNT) Additional System Definition Files Configuration Aid VM/SP HPO Restrictions Worksheet to Aid in Coding the **NAMESYS Macro** Sample SNTMAP Output

Note: See the CP for System Programming manual reorganization diagram for list of contents

# **Running Guest Operating Systems is Reorganized**

VM/SP HPO and VM/SP

VM Running Guest Operating Systems has incorporated additional information from VM/SP HPO CP for System Programming for Release 6.



VM/SP HPO and VM/SP

Introduction to Running VSE/SP Version 2 or 3 Under VM Defining a Single VSE/SP Virtual Machine Operating a VSE/SP Virtual Machine VSE/SP Virtual Machines Sharing DASD Introduction to Running MVS/SP Under VM/SP HPO Defining a Basic MVS/SP Virtual Machine

Enhancing MVS/SP Performance Under VM/SP HPO

More About Operating an MVS/SP Virtual Machine

MVS Virtual Machines Sharing DASD Introduction to Running VM Under VM Defining the First and Second-Level VM Systems

Operating VM Under VM

See the CP for System Programming manual reorganization diagram for list of contents

## **What Publications Will I Receive with the Product Tape?**

For VM/SP HPO Release 6, you will receive the following publications with the product tape:

VM/SP HPO Release 6 Guide

VM/SP HPO Licensed Program Specifications

VM/SP HPO Directory of Programming Interfaces for Customers

VM/SP HPO Library Guide and Master Index

VM/SP HPO Administration

VM/SP HPO Planning Guide and Reference

VM/SP HPO Operator's Guide

VM/SP HPO Installation Guide

VM/SP HPO CP General User Command Reference

VM/SP HPO CP System Command Reference

VM/SP HPO System Messages and Codes

VM/SP HPO Service Guide

VM Running Guest Operating Systems

VM/SP HPO Interactive Problem Control System Guide and Reference

VM/SP HPO CP Diagnosis Reference

VM/SP HPO CP Data Areas and Control Blocks

VM/SP HPO Diagnosis Guide

VM/SP HPO Problem Determination Summary.

You will not receive the binders or labels. You must order them separately.

## **Ordering Additional Copies of Manuals**

You may use SLSS (see "System Library Subscription Service (SLSS)" on page 29) to order additional copies of VM/SP HPO manuals individually by using the individual order numbers. Or, you may use bill of form numbers (BOFs) to order entire sets of manuals. Three BOFs exist so you can easily order:

- The VM/SP HPO library as a set
- The combined VM/SP HPO and VM/SP libraries as a set
- The VM/SP library as a set.

Note: For Release 6, the VM/SP HPO BOFs do not include binders. You must order them separately.

### Ordering the VM/SP HPO Library as a Set

To order the VM/SP HPO library as a set, use bill of form number SBOF-2020. You receive labels and 16 publications:

- VM/SP HPO Directory of Programming Interfaces for Customers
- VM/SP HPO Licensed Programming Specifications
- VM/SP HPO Library Guide and Master Index
- VM/SP HPO Glossary
- VM/SP HPO Release 6 Guide
- VM/SP HPO Planning Guide and Reference
- VM Running Guest Operating Systems
- VM/SP HPO CP General User Command Reference
- VM/SP HPO CP System Command Reference
- VM/SP HPO Installation Guide
- VM/SP HPO Service Guide
- VM/SP HPO Administration
- VM/SP HPO Interactive Problem Control System Guide and Reference
- VM/SP HPO Operator's Guide
- VM/SP HPO System Messages and Codes
- VM/SP HPO Quick Reference.

Binders do not come with SBOF-2020. You must order them separately. The order number for one binder is SX33-0399. Order six binders for the unlicensed publications. If you order the licensed publications, you will need two additional binders. In addition, you may want to order an extra binder to hold manuals that IBM issues between releases.

Figure 3 on page 20 shows the arrangement of the VM/SP HPO manuals in binders with labels.

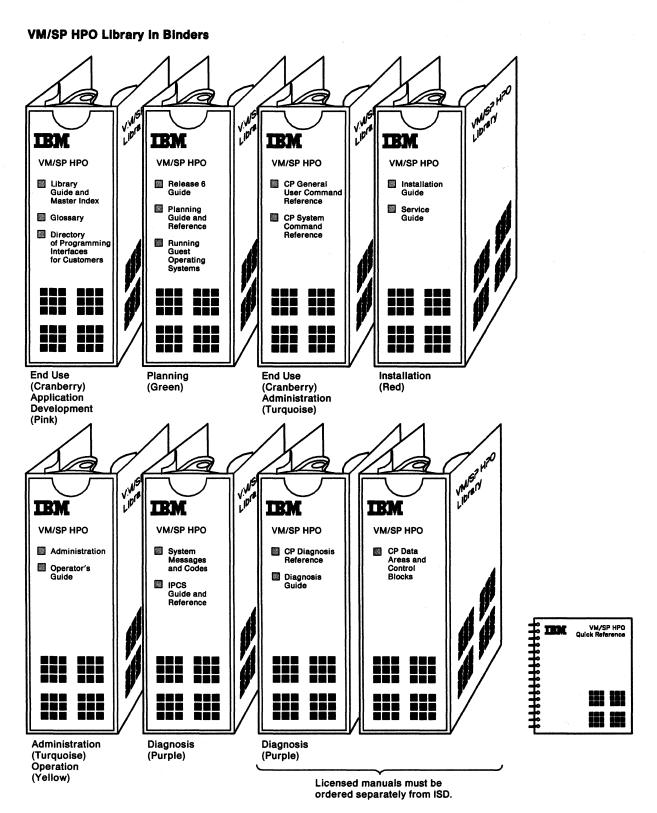


Figure 3. Ordering and Organizing the VM/SP HPO Library

### Ordering the Combined VM/SP HPO and VM/SP Libraries as a Set

To order the combined VM/SP HPO and VM/SP libraries as a set, use bill of form number SBOF-2021. You receive the labels and 40 publications:

- VM/SP HPO Licensed Programming Specifications
- VM/SP General Information
- VM/SP Introduction
- VM/SP Introduction to Security
- VM/SP HPO Operator's Guide
- VM/SP HPO Release 6 Guide
- VM/SP HPO Planning Guide and Reference
- Virtual Machine Running Guest Operating Systems
- VM/SP HPO Installation Guide
- VM/SP HPO Service Guide
- VM/SP CMS Shared File System Administration
- VM/SP HPO Administration
- VM/SP HPO CP System Command Reference
- Virtual Machine System Facilities for Programming
- VM/SP Connectivity Planning, Administration, and Operation
- VM/SP Application Development Reference for CMS
- VM/SP HPO Directory of Programming Interfaces for Customers
- VM/SP Application Development Guide for CMS
- VM/SP Application Migration Guide for CMS
- VM/SP Connectivity Programming Guide and Reference
- VM/SP SAA CPI Communications Reference
- VM/SP Application Development Guide for FORTRAN and COBOL
- VM/SP Programmer's Guide to the SRPI for VM/SP
- VM/SP Group Control System Macro Reference
- VM/SP HPO Library Guide and Master Index
- VM/SP HPO Glossary
- VM/SP Terminal Reference
- VM/SP CMS Command Reference
- VM/SP CMS User's Guide
- VM/SP HPO CP General User Command Reference
- VM/SP System Product Interpreter User's Guide
- VM/SP System Product Interpreter Reference
- VM/SP EXEC 2 Reference
- VM/SP System Product Editor User's Guide
- VM/SP System Product Editor Command and Macro Reference
- VM/SP HPO System Messages and Codes
- VM/SP HPO IPCS Guide and Reference
- VM/SP HPO Quick Reference
- VM/SP CMS Primer
- VM/SP CMS Primer for Line-Oriented Terminals

Binders do not come with SBOF-2021. You must order them separately. The order number for one binder is SX33-0399. Order 15 binders for the unlicensed publications. If you order the licensed publications, you will need three additional binders. In addition, you may want to order an extra binder to hold manuals that IBM issues between releases.

Figure 4 on page 22 shows the arrangement of the VM/SP HPO and VM/SP manuals in binders with labels.

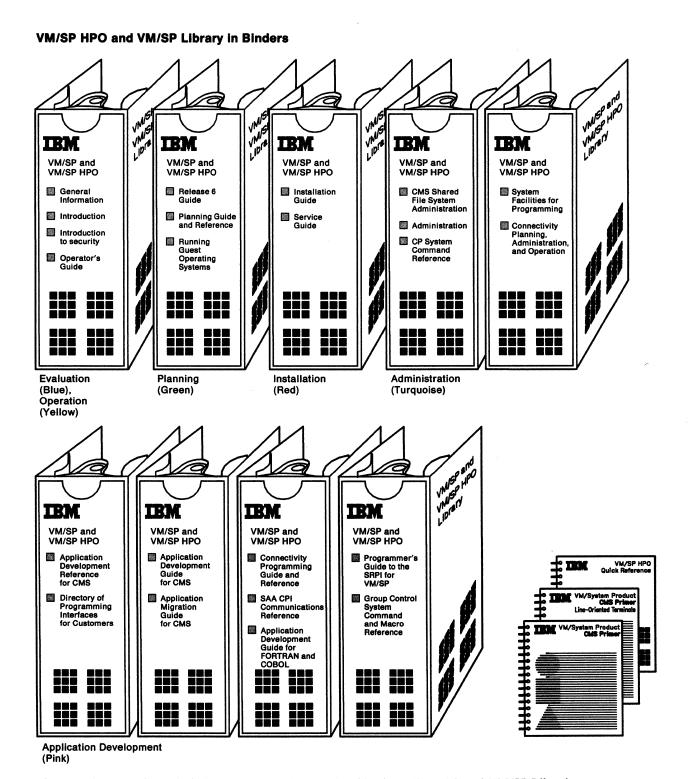


Figure 4 (Part 1 of 2). Ordering and Organizing the Combined VM/SP HPO and VM/SP Libraries

#### VM/SP HPO and VM/SP Library in Binders IBM IBM IBM IBM IBM VM/SP and VM/SP and VM/SP and VM/SP and VM/SP and VM/SP HPO VM/SP HPO VM/SP HPO VM/SP HPO VM/SP HPO CMS Command Library Guide CMS User's System Product System Product Editor User's Guide and Master Index Guide Interpreter User's Guide CP General Use Command Terminal System Product System Product Interpreter Reference Editor Command and Macro Reference Reference Glossary EXEC 2 Reference End Use (Cranberry) IBM IBM IBM IBM VM/SP and VM/SP and VM/SP and VM/SP and VM/SP HPO VM/SP HPO VM/SP HPO VM/SP HPO System Messages and Codes CP Diagnosis Reference CMS Diagnosis Reference Diagnosis Guide Service Routines Program Logic CP Data Areas and Control Blocks CMS Data IPCS Guide Areas and Control Blocks and Reference Diagnosis Diagnosis (Purple) (Purple)

Figure 4 (Part 2 of 2). Ordering and Organizing the Combined VM/SP HPO and VM/SP Libraries

Licensed manuals must be ordered separately from ISD.

#### **Ordering the VM/SP Library**

You can order the VM/SP library as a set using SBOF-3254 (this includes binders, labels, and manuals) or order the binders, labels, and VM/SP manuals separately. For this ordering information, refer to VM/SP Release 6 Library Guide and Master Index, GC19-6207.

## Ordering Individual VM/SP or VM/SP HPO Publications

You can order individual VM/SP or VM/SP HPO publications. The order numbers (for the latest release) and pseudonumbers (for previous but still current releases) appear in Table 1 and Table 2 on page 27.

### Ordering Publications for VM/SP HPO Releases 4.2, 5, and 6

Table 1 lists the VM/SP HPO publications and order numbers.

Table 1 (Page 1 of 2). Pseudonumbers and O	rder Numbers for VM	/SP HPO Manuals	
VM/SP HPO Publication	Release 4.2 Pseudonumber	Release 5 Pseudonumber	Release 6 Order Number
Labels for VM/SP HPO Library	ST00-1909	ST00-3304-00	SX23-0289
Labels for Combined VM/SP HPO and VM/SP Libraries	ST00-1908	ST00-3305-00	SX23-0282
Announcement Brochure	GT00-1895	GC19-6221	NA
What's In VM/SP HPO Release 5?	NA	GC23-0384	NA
Release Guide	ST00-1903	ST00-2750-00	SC23-0189-4
Directory of Programming Interfaces For Customers	NA	NA	GC23-0516
Library Guide, Glossary, and Master Index	GT00-1914	GT00-2749-00	NA
Library Guide and Master Index	NA	NA	GC23-0187-4
Glossary	NA	NA	SC23-0441-0
Licensed Program Specifications	GT00-1902	GT00-2751-00	GC20-1844-9
Planning Guide and Reference	ST00-1896	ST00-2752-00	SC19-6223-9
Installation and Service Guide	ST00-1904	ST00-2719-00	NA
Installation Guide	NA	NA	SC38-0107-7
Service Guide	NA	NA	SC23-0440-0
System Definition Files	SC23-0186	NA	NA
Service Routines Program Logic	LT00-1913	LY20-0898	NA
System Programmer's Guide	ST00-1897	NA	NA
CP for System Programming	NA	ST00-2753-00	NA
Administration	NA	NA	SC19-6224-8
Problem Determination Reference Information	LT00-1910	LT00-2375-00	NA
Problem Determination Summary	NA	NA	LX23-0347-5

VM/SP HPO Publication	Release 4.2 Pseudonumber	Release 5 Pseudonumber	Release 6 Order Number
Operator's Guide	ST00-1898	ST00-2754-00	SC19-6225-8
System Messages and Codes	ST00-1899	ST00-2755-00	SC19-6226-8
System Messages Cross-Reference	SQ23-0190	NA	NA
CP Command Reference	ST00-1900	ST00-2756-00	NA
CP General User Command Reference	NA	NA	SC19-6227-8
CP System Command Reference	NA	NA	SC23-0442-0
Interactive Problem Control System Guide and Reference	NA	NA	SC23-0443-0
Virtual Machine Running Guest Operating Systems	GT00-1894	GT00-3300-00	GC19-6212-6
OLTSEP and Error Recording Guide	ST00-1901	NA	NA
Data Areas and Control Block Logic - CP	LT00-1911	LT00-2757-00	NA
CP Data Areas and Control Blocks	NA	NA	LY20-0896-8
System Logic and Problem Determination Guide - CP	LT00-1912	LT00-2758-00	NA
CP Diagnosis Reference	NA	NA	LY20-0897-8
Diagnosis Guide	NA	NA	LY27-8061-0
Command Summary (General Users)	ST00-1905	ST00-3302-00	NA
CP General User Command Reference Summary	NA	NA	SX22-0003-8
Command Summary (Other than General Users)	ST00-1906	ST00-3303-00	NA
CP System Command Reference Summary	NA	NA	SX22-0004-8
Quick Reference	ST00-1907	ST00-3301-00	SX22-0005-8

#### Notes:

- 1. VM Service Routines Logic contains both VM/SP and VM/SP HPO information.
- 2. System Programmer's Guide was split into four publications for Release 5. Order VM/SP HPO CP for System Programming, VM/SP CMS for System Programming, Virtual Machine System Facilities for Programming, and Virtual Machine Diagnosis Guide (in Table 2 on page 27).
- 3. VM/SP HPO Library Guide, Glossary, and Master Index split into two publications for Release 6. Order the VM/SP HPO Library Guide and Master Index and the VM/SP HPO Glossary.
- 4. VM/SP HPO Installation and Service Guide split into two publications for Release 6. Order the VM/SP HPO Installation Guide and the VM/SP HPO Service Guide.

- 5. VM/SP HPO CP for System Programming was renamed and reorganized for Release 6. Most of the material is now found in VM/SP HPO Administration. Other material is now in VM/SP HPO CP Diagnosis Reference, VM/SP HPO Planning Guide and Reference, VM Running Guest Operating Systems, and VM/SP HPO Operator's Guide.
- 6. VM/SP HPO CP Command Reference split into two publications for Release 6. Order the VM/SP HPO CP General User Command Reference and the VM/SP HPO System Command Reference.
- 7. VM/SP HPO Interactive Problem Control System Guide and Reference previously was named VM/SP Interactive Problem Control System Guide and Reference.
- 8. VM/SP HPO Data Areas and Control Block Logic—CP is now named VM/SP HPO CP Data Areas and Control Block Logic.
- 9. VM/SP HPO System Logic and Problem Determination Guide is now named VM/SP HPO CP Diagnosis Reference.
- 10. VM/SP HPO Diagnosis Guide previously was named VM Diagnosis Guide.
- 11. VM/SP HPO General User Command Summary previously was named VM/SP HPO Command Summary (General User).
- 12. VM/SP HPO System Command Summary previously was named VM/SP HPO Command Summary (Other Than General User).

### Ordering Publications for VM/SP Releases 4, 5, and 6

VM/SP HPO Release 4.2 operates in conjunction with VM/SP Release 4. VM/SP HPO Release 5 operates in conjunction with VM/SP Release 5. VM/SP HPO Release 6 operates in conjunction with VM/SP Release 6. Table 2 lists pseudonumbers and order numbers for applicable VM/SP Release 4, 5, and 6 publications.

VM/SP Publication	Release 4 Pseudonumber	Release 5 Pseudonumber	Release 6 Order Number
Introduction	GT00-1575	GT00-1977	GT00-6200-05
General Information	GT00-1587	GT00-1976	GC20-1838-07
Introduction to Security	NA	ST24-5316	SC24-5316-01
Terminal Reference	GT00-1581	GT00-1979	GC19-6206-05
CMS Command Reference	ST00-1583	ST00-1981	SC19-6209-05
CMS User's Guide	ST00-1584	ST00-1980	SC19-6210-05
System Product Editor User's Guide	ST00-1589	ST00-1985	SC24-5220-04
System Product Editor Command and Macro Reference	ST00-1590	ST00-1986	SC24-5221-05
System Product Interpreter User's Guide	ST00-1593	ST00-1987	SC24-5238-04
System Product Interpreter Reference	SQ24-5239	ST00-1988	SC24-5239-03
EXEC 2 Reference	ST00-1368	ST00-1984	SC24-5219-04
Application Development Guide For FORTRAN and COBOL	SQ24-5247	ST00-2086	SC24-5247-03
CMS Macros and Functions Reference	NA	ST24-5284	NA
CMS Application Development Reference for CMS	NA	NA	SC24-5284-01
Programmer's Guide to the Server-Requester Programming Interface for VM/SP	NA	ST24-5291	ST24-5291-02
CMS for System Programming	NA	ST24-5286	NA
Application Development Guide for CMS	NA	NA	ST24-5286-01
TSAF Reference	NA	ST24-5287	NA
Connectivity Planning, Administration, and Operation	NA	NA	SC24-5378-0
Connectivity Programming Guide and Reference	NA	NA	SC24-5377-0
Group Control System Command and Macro Reference	ST24-5250	SQ24-5250	SC24-5250-02
Virtual Machine System Facilities for Programming	NA	ST24-5288	SC24-5288-01
SAA Common Programming Interface Communications Reference	NA	NA	SC26-4399-00

VM/SP Publication	Release 4 Pseudonumber	Release 5 Pseudonumber	Release 6 Order Number
Distributed Data Processing Guide	ST24-5241	SQ24-5241	NA
System Logic and Problem Determination Guide Volume 2 (CMS)	LT00-1819	LT00-2007	NA
CMS Diagnosis Reference	NA	NA	LY20-0893-00
VM Application Migration Guide for CMS	NA	NA	SC24-5366-0
Data Areas and Control Block Logic – CMS	LQ64-5221	LT00-2009	NA
CMS Data Areas and Control Blocks	NA	NA	LY24-5221-00
Virtual Machine Diagnosis Guide	NA	LT00-2010	NA
VM/SP Diagnosis Guide	NA	NA	LY24-5241-1
Group Control System Diagnosis Reference	LT64-5239	LT00-2012	NA
CMS Primer	ST00-1591	ST00-1992	SC24-5236-04
CMS Primer for Line-Oriented Terminals	SQ24-5242	ST00-1993	SC24-5242-03
CMS Shared File System Administration	NA	NA	SC24-5367-0
HELP Facility Introduction	NA	NA	SX224-5221-0

## **Library-Related Services**

### **System Bibliography**

The IBM System/370, 30xx, 4300, and 9370 Processors Bibliography, GC20-0001, lists by subject code and provides abstracts (by order number) of all the publications available which pertain to VM/SP HPO. These abstracts are brief descriptions of the purpose, scope, and intended audience of each publication.

### **System Library Subscription Service (SLSS)**

The System Library Subscription Service (SLSS) is an automatic updating service for technical documentation. If IBM releases a new or revised document which matches your SLSS subscription, you automatically receive the latest version or edition of the publication, and any applicable Technical Newsletters.

You can enter a subscription in two different ways: by creating an *interest profile*, or by listing the *order numbers* of the manuals you want. Both methods use the SLSS order form, G120-1816.

Order by interest profile when you need all the documents relating to your installation. Profiles are composed of specific information about your processor, program, communications needs and your special subjects of interest about your system.

You should subscribe by order number when you need multiple copies, when the publication is not part of the set automatically shipped with the software, or when it is not available through the profile service. For example, when you order VM/SP HPO Release 6, an initial library is shipped with it, and you will automatically receive updates to these books without an SLSS subscription. Use SLSS when you want updating service for multiple copies of these books, or for any additional or optional books you want to order. You will be billed for any use-key S manuals which you receive from SLSS.

You can update your subscription at any time using the SLSS order form. For more information on SLSS see *Entering an SLSS Subscription*, G320-1561, or contact your IBM marketing representative.

#### **Technical Newsletters (TNLs)**

TNLs are issued to update and correct existing books. They consist of a cover letter listing the changes, and either pages to add to the existing manual or pages to substitute for the original pages.

A book is revised when the current stock to which TNLs have been issued is exhausted or when major changes are made in its content.

TNLs and major revisions are automatically sent to users who subscribe to the base document using the System Library Subscription Service.

#### **Between-Release Publications for PTFs**

From time to time, IBM provides new VM/SP HPO support that is announced between releases. Such support is available as program temporary fixes (PTFs) on a Program Update Tape (PUT) and is documented by a separate publication.

These publications, called stand-alone guides, describe the new support, hardware device, new or changed commands and messages, system generation considerations, and new and changed modules. The publication contains only new information, so you should use it along with the regular library.

The distribution of stand-alone guides differs slightly from the distribution of entitled manuals. All new licensees receive stand-alone guides automatically. Existing licensees receive a letter describing the support and a post card asking them if they would like to receive the stand-alone guide.

We suggest that you order a binder, SX33-0399, to hold the publications.

The booklets listed in Table 3 on page 31 have been issued for PTFs on Release 4, 4.2, and 5. Because the information is included in the Release 6 manuals, these booklets are no longer necessary.

Title	Order Number	VM/SP R4	VM/SP HPO R4.2	VM/SP R5	VM/SP HPO R5	VM/SP R6
DASD DUMP/Restore Streaming Support Improvements	GC24-5359	х		Х		
SPOOL Enhancement Accommodation	GC24-5361			Х		
Enhancements to the IBM Enhanced Connectivity Facilities for VM/System Product	GC24-5295			x		-
IBM 3380 Direct Access Storage Models AJ4/BJ4 and AK4/BK4	GC24-5371	х	х	x	x	
IBM 3990 Storage Control Models 1 and 2 and IBM Direct Access Storage Direct Channel Attach Model CJ2	GC24-5372	x	х	x	х	
Terminal Usability Enhancements	GC24-5309			х	х	
VM/VTAM and NetView™ Enhancements	GC24-5310			х		
DIAGNOSE Code X'64' Enhancement	GC24-5311	Х	X	X	X	
DIAGNOSE Code X'E4' Enhancement	GC24-5376			X	X	
Support for the IBM 3990 Storage Control Model 3	GC23-0430				X	
Support for Mixed Directory	GC23-0436		X		X	
Productivity Aids National Language Support Enhancement	GC24-5400			X		
National Language Support File Naming Conventions Enhancements	GC24-5418			х	х	х
Enhancements to the LINERD and LINEWRT Macros	GC24-5313					X
Alternate-VSAM	GC24-5399					X
Support for U.S. DOD C2 Security	SC24-5384			X	X	
Security and Integrity Enhancements	GC24-5312					Х
Support for VM/Directory Maintenance Licensed Program Release 4	GC23-0459		х		X	
Free Storage Changes	LY27-8062					Х
Paging Storage and Vector Facility Changes	GC23-0463		Х		X	

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# **Online HELP Facility**

Online HELP information, intended for both new and experienced users, contains information about commands, instructions, and messages. Online HELP provides menus of commands and tasks on which information is available, as well as several ways to display this information. HELP information is available for:

- Commands
  - APPC/VM VTAM Support (AVS), CMS, all CP, IPCS and RSCS
- Subcommands
  - EDIT, XEDIT, Servor-Requestor Programming Interface (SRPI), IPCSSCAN and IPCSPRT
- Macros
  - CMS assembler language
- Options
  - For the QUERY and SET commands of both CMS and CP
- Routines
  - From the VMLIB callable services library (CSL)
- Messages
  - CMS, CP, RSCS, TSAF, AVS, GCS, IPCS
- Statements
  - EXEC and EXEC2, REXX

New users can read the VM/SP HELP Facility Introduction and the HELP chapter in the VM/SP CMS Primer for information on how to use online HELP.

# **Abstracts of Manuals**

The following *abstracts* present a description of each manual and, consequently, a better idea about which manual is best suited for your task. The VM/SP HPO manuals are listed first, followed by the VM/SP manuals.

### **VM/SP HPO Publications**

#### Release 6 Guide, SC23-0189

This manual provides *current* users of VM/SP HPO Release 5 with a synopsis of the functional enhancements offered by the new release. It describes new functional enhancements, defines the related user interfaces, and gives examples of their use. It includes details for migrating from VM/SP HPO Release 5 to VM/SP HPO Release 6 and identifies new and changed modules.

#### Library Guide and Master Index, GC23-0187

This manual describes the documentation available for VM/SP HPO and includes a compilation of all the index entries for the library. The master index section is particularly helpful if you are not familiar with the VM/SP HPO library as it directs you to the correct manual for a particular topic.

#### Glossary, GC23-0441

This manual defines terms used throughout the VM/SP HPO manuals.

#### Planning Guide and Reference, SC19-6223

This manual contains planning and installation information for installing a VM/SP HPO system.

This publication includes information about planning for system generation and defining your VM/SP HPO operating system. Appendixes provide:

- Information about various configurations
- Restrictions on VM/SP HPO
- A worksheet for coding the NAMESYS macro
- Sample SNTMAP output.

The intended audience is system programmers and anyone responsible for the planning, installation, and updating of a VM/SP HPO system. The reader is expected to have a general understanding of data processing and teleprocessing techniques.

#### Installation Guide, SC38-0107

This manual is for system programmers and anyone responsible for installing VM/SP HPO. It contains step-by-step procedures for using the Starter System or an existing VM/SP HPO system to install VM/SP HPO. In addition, there are procedures for verifying an installed system, installing saved segments, and installing a new system national language.

### Service Guide, SC23-0440

This book is for system programmers and anyone responsible for servicing VM/SP HPO. It contains step-by-step procedures for program update (preventative) service, corrective service, and local service. It also contains descriptions of the various service tools and service files, including the product parameter file.

Material in this book previously was found in VM/SP HPO Installation and Service Guide, SC38-0107.

#### **Administration, SC19-6224**

This is a reference book for the system administrator and others who carry out and extend the functions of IBM's Virtual Machine/System Product High Performance Option (VM/SP HPO). It assumes some experience with programming concepts and techniques. This reference consists of three parts and an appendix:

Part 1: Tailoring Your VM/SP HPO System describes some functions of VM/SP HPO and provides guidance to the system administrator in tailoring those functions.

Part 2: Performance describes options available in VM/SP HPO to analyze and improve the performance of virtual machines and operating systems.

Part 3: Hardware Considerations provides information about various types of printers, DASD, Paging Storage, storage control subsystems, and Vector Facilities

An appendix, "VM/SP HPO Monitor Tape Format and Content" describes the format and contents of data records for classes and codes of MONITOR CALL.

This book contains information previously found in the Release 5 book CP for System Programming, SC19-6224.

#### **CP General User Command Reference, SC19-6227**

This publication is a reference manual for class G and class Any users who are running systems such as OS, OS/VS, DOS, DOS/VS, and VSE systems, CMS, and networking systems in a virtual machine under VM/SP HPO. Control Program (CP) commands available to privilege classes G and Any are listed alphabetically. Each command description contains general usage notes, the command line format, descriptions of all allowable operands, default values for operands, and messages generated by the command.

Material in this book previously was found in the VM/SP HPO CP Command Reference, SC19-6227.

# **CP System Command Reference, SC23-0442**

This publication is a reference manual for class A, B, C, D, E, and F users who are running systems such as OS, OS/VS, DOS, DOS/VS, and VSE systems, CMS, and networking systems in a virtual machine under VM/SP HPO. Control Program (CP) commands available to privilege classes A, B, C, D, E, and F are listed alphabetically. Each command description contains general usage notes, the command line format, descriptions of all allowable operands, default values for operands, and messages generated by the command.

Material in this book previously was found in the VM/SP HPO CP Command Reference, SC19-6227.

# **Directory of Programming Interfaces for Customers, GC24-5417**

This manual lists all the programming interfaces that are available in VM/SP HPO for programmers to use in writing programs. These interfaces are documented in the rest of the VM/SP HPO library. It describes each interface by name, book and chapter location in the library. This publication also specifies which interfaces IBM prefers programmers to use, and which should be used with caution.

#### Interactive Problem Control System Guide and Reference, SC23-0443

This manual contains an overview of IPCS functions, data flow, and files. It describes preliminary and repetitive IPCS operations, and gives insight into using IPCS in different programming environments. It is also a reference manual that contains a detailed description of all the IPCS commands and subcommands.

This book contains information previously found in the Release 5 book VM Diagnosis Guide, LY24-5241.

#### Operator's Guide, SC19-6225

This manual is for those responsible for the operation and administration of a VM/SP HPO system. This book describes the recovery features and how to initialize and terminate the system. It briefly introduces the various commands, CP and CMS, that an operator may find useful. It also includes some information about hardware considerations and spooling and Batch commands.

#### System Messages and Codes, SC19-6226

This manual contains messages and codes, as well as restrictions, that the user may encounter when using CMS, CP, IPCS, GCS, AVS, and TSAF. Conditions that generate these messages and codes are explained, the resulting action is described, and appropriate responses are suggested.

#### **Running Guest Operating Systems, GC19-6212**

This manual is for people who are interested in running their operating system (VSE, MVS, and VM) under the VM host system. The book presents the basic processes so that the working system can be set up quickly. Experienced persons can improve the efficiency of their installation, running a guest system under VM, with the included recommendations. The book assumes the audience is knowledgeable about their own system but new to VM.

Some of the material in this book previously was found in VM/SP HPO CP for System Programming, SC19-6224.

# Diagnosis Guide, LY27-8061

This book is a guide to identifying and collecting information, and reporting and solving problems in the VM/SP HPO licensed program.

Material in this book previously was found in VM Diagnosis Guide, LY24-5241.

# **CP Diagnosis Reference, LY20-0897**

This book provides general information needed to analyze problems that occur when running VM/SP HPO.

This book previously was named VM/SP HPO System Logic and Problem Determination Guide—CP, LY20-0897.

#### **CP Data Areas and Control Blocks, LY20-0896**

This book describes the CP data areas and control blocks used for communication between components and modules of VM/SP HPO. The data areas and control blocks are arranged in alphabetical order by their DSECT name. A descriptive statement is followed by a graphic representation of the arrangement of the fields. Also included is a cross reference containing all the labels defined in the data area as well as any general equates that the copy file may contain.

This book previously was named VM/SP HPO Data Areas and Control Block Logic—CP, LY20-0896.

# **Abstracts of Reference Summaries**

#### **CP General User Command Reference Summary, SX22-0003**

This reference card provides the syntax for all class G commands.

This information previously was found in the VM/SP HPO CP Command Summary (General User), SX22-0003.

#### **CP System Command Reference Summary, SX22-0004**

This reference card provides the syntax for all non-class G commands.

This information previously was found in the VM/SP HPO CP Command Summary (Other Than General User), SX22-0004.

#### **Quick Reference, SX22-0005**

The first section of this spiral-bound book provides a summary of system reference information about communicating with the system and interpreting responses, and working with two of its components, CP and CMS. The second section consists of syntax diagrams and brief descriptions of VM/SP HPO commands and service aids.

# **Problem Determination Summary, LX23-0347**

This publication summarizes techniques for finding the cause of a problem, shows the CP trace table, and the PSA (prefix storage area).

### **VM/SP Publications**

#### VM Application Migration Guide for CMS, SC24-5366

The VM/SP Application Migration Guide for CMS provides application program migration information for application programmers and system programmers who are migrating programs to VM/SP HPO Release 6. It summarizes some of the new and changed features of CMS, including Shared File System compatibility and exploitation, Callable Services Library features, the CMS formalized programming interface, Extended Architecture support in CMS, and CMS functional changes for calling and handling programs, handling interrupts, managing storage and saved segments, and using OS/MVS simulation.

#### Application Development Guide for FORTRAN and COBOL, SC24-5247

The Application Development Guide for FORTRAN AND COBOL tells FORTRAN and COBOL application programmers how to compile, link, load, run, test, and debug programs using CMS. It also contains information on using the Interactive System Productivity Facility (ISPF) for dialog management and the Structured Query Language/Data System (SQL/DS) for data base management.

#### **Application Development Guide for CMS, SC24-5286**

The VM/SP Application Development Guide for CMS provides application programmers and system programmers with information about CMS. This information includes details on the CMS programming interface and CMS architecture, using CMS native services (to handle interrupts, obtain free storage, perform I/O, and process abends), and managing CMS programs (using CMS services to build, load, execute, and update programs and program packages). It also includes information on developing OS/MVS and VSE programs under CMS, and using Access Method Services and VSAM under CMS and CMS/DOS. Much of the information in this book was formerly found in CMS for System Programming, ST24-5286.

# **Application Development Reference for CMS, SC24-5284**

All of the information contained in the Release 5 CMS Macros and Functions Reference is now in this manual. New CMS macros are also incorporated. In addition to detailed reference information about CMS assembler language macro instructions and CMS functions, a callable services library (CSL) is described. The routines in this library can be called from assembler, COBOL, VS Fortran, PL/I, VS Pascal, and REXX languages. Many of these routines facilitate the use of the CMS Shared File System.

The manual is intended for application programmers, system programmers, and IBM system support personnel.

# CMS Command Reference, SC19-6209

This publication provides users of the Conversational Monitor System (CMS) component of VM/SP with detailed reference information about command syntax and usage for: CMS commands, EDIT subcommands, HELP format words, DEBUG commands, EXEC control statements, special variables, and built-in functions.

#### CMS Primer, SC24-5236

This manual teaches you, as a new user, how to do your work using VM/SP and a video display terminal. The primer presents only a subset of all the functions and commands available with VM/SP. The material is presented in an interesting manner with suggested exercises included in the text.

## CMS Primer for Line-Oriented Terminals, SC24-5242

This manual is an interactive tutorial for VM/SP users of line-oriented (line mode) video display terminals. The manual, which is similar in scope and content to the VM/SP CMS Primer, is designed to quickly give the reader a working knowledge of VM/SP. Topics include logging on, editing, managing, and printing files, using the Document Composition Facility (SCRIPT/VS) to format files, and writing EXECs.

#### CMS Shared File System Administration, SC24-5367

This book helps system administrators and programmers administrate file sharing in CMS. It includes information about managing users and storage, protecting and securing data, creating and managing file pools and file pool catalogs, monitoring performance, accounting and tracing the system.

#### CMS User's Guide, SC19-6210

This manual contains general information on the Conversational Monitor System (CMS) component of VM/SP. It provides information and examples regarding the CMS Shared File System, the CMS batch facility, the HELP facility, and windowing support. Also included are examples on using the System Product Editor to create and edit CMS files, and to create and use EXECs which can be executed by the System Product Interpreter.

# Connectivity Planning, Administration, and Operation, SC24-5378

This manual provides an overview of the products and the VM/SP components related to connectivity and an overview of the programming interface, Advanced Program-to-Program/Virtual Machine (APPC/VM) and the Common Programming Interface (CPI) for Communications of System Application Architecture (SAA). This manual contains all of the reference material needed to use the Transparent Services Access Facility (TSAF) and APPC/VM VTAM Support (AVS). It includes information for the system programmer and system operator to run the TSAF virtual machine, to run the AVS virtual machine, to use the CP System Services, and to use the service tools that are provided with TSAF and AVS. This book contains information formerly found in the TSAF Reference, SC24-5287.

# Connectivity Programming Guide and Reference, SC24-5377

This book is intended for someone writing an application program to communicate with another application program using APPC protocol. The communication can occur within a single TSAF collection, across multiple TSAF collections, or between a TSAF collection and an SNA network.

This book introduces the two kinds of APPC/VM communications programming interfaces:

- 1. Systems Application Architecture<sup>™</sup> (SAA) Common Programming Interface (CPI) Communications, intended for programs written in high-level languages (such as COBOL) and procedures languages (REXX).
- 2. The APPC/VM macro interface, for programs written in assembler language.

This book provides complete details on the APPC/VM assembler interface; readers are referred to the SAA Common Programming Interface Communications Reference, SC26-4399, for details on CPI Communications.

#### **EXEC 2 Reference, SC24-5219**

This is a reference manual that defines the EXEC 2 language. It contains all the formats, syntax rules, and descriptions of the arguments for EXEC 2 statements. An EXEC 2 primer for new users is included. It summarizes the language and its capabilities. A detailed discussion of the different types of EXEC 2 statements is followed by examples. It lists the error messages and return codes issued by the EXEC 2 interpreter.

#### **General Information, GC20-1838**

This manual introduces and describes the features and facilities of VM/SP and provides customer management and technical staffs with information needed to evaluate the applicability of VM/SP to their installations. It contains information needed for a basic understanding of the environments and functions that are supported by VM/SP.

#### **Group Control System Command and Macro Reference, SC24-5250**

This manual provides detailed reference material that describes the functions and use of all macros supported in the Group Control System. Each macro description contains information on general usage, format, all available parameters, messages, and return codes. The manual is intended for personnel who are developing application programs to run on the Group Control System.

# **HELP Facility Introduction, SX24-5221**

This reference card shows the menu structure of the online HELP facility, the format of HELP panels and the syntax of the command formats in HELP. It also shows how to get HELP for system messages, and lists the filetypes reserved by the system for use by the HELP facility.

# Programmer's Guide to the Server-Requester Programming Interface for VM/SP, SC24-5291

This manual provides an application programmer with information on how to write and install IBM Enhanced Connectivity Facilities servers in a VM/SP system. For the work station (for example, IBM Personal Computer or Personal System/2) user, the manual also gives information on how to start IBM Enhanced Connectivity Facilities communications in VM/SP.

### Introduction, GC19-6200

This manual is an extension of the VM/SP General Information manual. It describes, at an introductory level, what VM/SP is and what it can do for you. It is intended for anyone who wants basic information about VM/SP facilities and capabilities. This manual is useful for those who plan a VM/SP installation, use licensed programs with VM/SP, or migrate to VM/SP from another operating system. This manual is suggested as a prerequisite before reading the more detailed reference manuals in the VM/SP library.

#### Introduction to Security, SC24-5316-01

This book is intended to introduce VM/SP system and application programmers to the topic of security. It acquaints the reader with the security challenges that might confront his or her organization, and the security tools and facilities provided by VM/SP to meet those challenges. It includes information on maintaining physical security and system integrity, controlling access to the VM/SP system, protecting data, and performing a risk analysis.

#### SAA Common Programming Interface Communications Reference, SC26-4399

This book describes SAA Common Programming Interface (CPI) Communications in detail, including scenarios and individual routines. It is intended for someone writing an application program that is to communicate with another application program using APPC protocol. The communications can occur within a single TSAF collection, across multiple TSAF collections, or between a TSAF collection and an SNA network.

#### VM System Facilities for Programming, SC24-5288

This manual provides a system programmer with detailed information on facilities available in VM/SP and VM/SP HPO. Included are the DIAGNOSE instruction, the Inter-User Communications Vehicle (IUCV) for CP and CMS, CP System Services, the Virtual Machine Communication Facility (VMCF), the programmable operator facility, and information on getting national languages on your system. Information on DASD Operations (including the Format/Allocate and DASD Dump Restore (DDR) programs), the CMS Batch Facility, the Collection Resource Management System Service, and the Identify System Service are now also contained in this book.

This information was extracted from the Release 5 books *CP for System Programming*, SC24-5285, *CMS for System Programming*, SC24-5286, and the *Transparent Services Access Facility (TSAF) Reference*, SC24-5287, respectively.

# System Messages Cross Reference, SC24-5264

This manual contains cross-reference information for the messages in the manual, VM/SP Messages and Codes, SC19-6204. The cross-reference information relates messages to the commands that caused them to be issued, lists messages alphanumerically by message identifier, relates messages to the module that issued them, and lists the messages in alphanumeric order by message text. The manual consists of five appendices, one for each of the VM/SP components: Conversational Monitor System (CMS), Control Program (CP), Interactive Problem Control System (IPCS), Group Control System (GCS), and Transparent Services Access Facility (TSAF).

#### System Product Editor Command and Macro Reference, SC24-5221

This publication is a reference manual that contains all the command formats, syntax rules, and operand and option descriptions for the XEDIT subcommands and macros. It tells how to enter XEDIT commands, subcommands and macros. It contains the format description and operand and option list for the XEDIT command, which is used to invoke the editor. It lists EDIT subcommands and their XEDIT counterparts, and describes the relationship between XEDIT and the CMS Session Services. You should be familiar with the information in the System Product Editor User's Guide, SC24-5220, before attempting to use this manual.

#### System Product Editor User's Guide, SC24-5220

This manual is intended for the individual who has limited data processing experience. It is designed to give the user a working knowledge of the System Product Editor (called by the XEDIT command). XEDIT provides a wide range of functions for text processing and programming development. Both a full screen and a line mode editor, it can be used on display and typewriter terminals.

# System Product Interpreter Reference, SC24-5239

This manual provides reference information about System Product Interpreter statements and their use. It is suitable for experienced programmers, particularly those who have used another high-level language (e.g., PL/I, Algol, or Pascal). It includes error messages and describes syntax, instructions, functions, debugging aids, and parsing.

#### System Product Interpreter User's Guide, SC24-5238

This manual is a step-by-step guide to using the System Product Interpreter, the powerful interpretive command and macro language. It is intended for a user with some knowledge of terminals, editors, and VM/SP, but the user need not have any previous programming experience.

The novice should read the System Product Interpreter chapter in the VM/SP CMS Primer, SC24-5236, for prerequisite knowledge.

#### **Terminal Reference, GC19-6206**

This manual is intended for those users who plan to use terminals with VM/SP in their operations. It discusses the characteristics of terminals in general and the physical characteristics of some terminals and consoles supported by VM/SP. It discusses how to use terminals to access and control VM/SP, and contains an example of a typical session from logon to logoff.

# **Abstract of Reference Posters**

#### **Summary of End Use Tasks and Commands, SX24-5173**

The VM Summary of End Use Tasks and Commands, SX24-5173, is a poster listing the nine major tasks and the associated commands most frequently used by end users. This poster contains excerpts of command information found in various CP, CMS, and XEDIT books. The Summary poster is helpful for general users who need a reminder list of the commands used to perform routine daily tasks.

# VM CP Trace Table (Poster), SC24-5225

This table shows the format (type of event, module, and hex value) of the entries in the CP internal trace table. This table records events that occur in the real machine (such as interrupts, communications, and instructions).

# Chapter 2. The VM/SP HPO Master Index

This index is a compilation of the indexes of all of the manuals in the VM/SP HPO library. Each entry in this index is followed by one or more codes that identifies the manual(s) in which the entry appears. The codes are defined in the following table. For easy reference, this table is also provided as a foldout at the back of the book.

Book Code	Book Title	Order Number
ADGCMS	Application Development Guide for CMS	SC24-5286
ADMIN	Administration	SC19-6224
ADRCMS	Application Development Reference for CMS	SC24-5284
APGDE	Application Development Guide for CMS	SC24-5247
CMSMIG	Application Migration Guide for CMS	SC24-5366
CMSLOT	CMS Primer for Line-Oriented Terminals	SC24-5242
CMSREF	CMS Command Reference	SC19-6209
CMSUG	CMS User's Guide	SC19-6210
CONGREF	Connectivity Programming Guide and Reference	SC24-5377
CONPAO	Connectivity Planning, Administration, and Operation	SC24-5378
DIAG	Diagnosis Guide	LY27-8061
EXEC2	EXEC2 Reference	SC24-5219
GCSREF	Group Control System Command and Macro Reference	SC24-5250
GENCMD	CP General User Command Reference	SC19-6227
GIM	General Information	GC20-1838
INST	Installation Guide	SC38-0107
INTRO	Introduction	GC19-6200
IPCSREF	Interactive Problem Control System Guide and Reference	SC23-0443
OPGDE	Operator's Guide	SC19-6225
PLNGDE	Planning Guide and Reference	SC19-6223
PRIMER	CMS Primer	SC24-5236
REL6GDE	Release 6 Guide	SC23-0189
RGOS	Virtual Machine Running Guest Operating Systems	GC19-6212
SAACOM	SAA Common Programming Interface Communications Reference	SC26-4399
SECUR	Introduction to Security	SC24-5316
SERV	Service Guide	SC23-0440
SFPROG	VM System Facilities for Programming	SC24-5288
SFSAD	CMS Shared File System Administration	SC24-5367
SPIREF	System Product Interpreter Reference	SC24-5239
SPIUG	System Product Interpreter User's Guide	SC24-5238
SRPI	Programmer's Guide to the Server-Requested Programming Interface for VM/SP	SC24-5291
SYSCMD	CP System Command Reference	SC23-0442
SYSMSG	System Messages and Codes	SC19-6226
TERMREF	Terminal Reference	SC19-6206
XEDIT	System Product Editor Command and Macro Reference	SC24-5221
XEDITUG	System Product Editor User's Guide	SC24-5220

#### **How to Use This Master Index**

To aid you in finding items in this index, the entries have been grouped together under first-level entries such as control program (CP). Some of the entries in such a major grouping may be listed in the individual manuals under their abbreviation, for example, CP.

- 1. Think of a subject or topic you want to look up. For example, suppose you want to find out about how to manage page migration, therefore, your topic is "page migration."
- 2. Look up your topic in the index, which is arranged alphabetically. (After Z are several numerical entries, such as 3 for 3851 and 9 for 9TRACK option.) You might not find your topic, though, in the first place you look. If that happens, think of another way to word your topic and look again. Let's say you looked under P for "page migration." You would find this entry:

```
page migration ADMIN
activity, displaying ADMIN
demand ADMIN
description PLNGDE
detecting and correcting problems
related to ADMIN
managing ADMIN
operation ADMIN
paging hierarchy PLNGDE
selecting the next virtual machine
for page migration ADMIN
setting options and parameters ADMIN
```

3. The abbreviation to the right of the topic tells you what book to look in. Each abbreviation corresponds to a specific reference manual, as designated on the foldout page at the back of this book.

For our sample topic, the abbreviations and books are:

Abbreviation Book

ADMIN VM/SP HPO Administration

PLNGDE VM/SP HPO Planning Guide and Reference

4. You can look in VM/SP HPO Administration to find out how to manage page migration or in VM/SP HPO Planning Guide and Reference for more information about page migration. Then use the table of contents or the index in the book to find the specific chapter or page for your topic.

A option of LISTIO command CMSREF A prefix subcommand of XEDIT command APGDE, PRIMER, XEDIT, XEDITUG example of XEDIT practice exercise using XEDITUG

A-disk CMSUG

accessed after IPLing CMS CMSREF considerations for SFSAD defining defaults for users SFSAD for administration machines SFSAD for file pool server machines SFSAD for server, replacing SFSAD in a remote file pool SFSAD moving contents to an SFS directory SFSAD requirements for, during storage group backups SFSAD usage of, during FILEPOOL RESTORE SFSAD

ABBREV function SPIUG description SPIREF using to select a default SPIREF abbreviations DIAG, GCSREF, IPCSREF looking for one in a string SPIREF message SYSMSG of command names CMSREF of commands CMSLOT, PRIMER of information SPIUG of subcommand name XEDIT of subcommand operand XEDIT of synonym defined XEDIT testing with ABBREV function SPIREF use of **GENCMD** 

#### ABEND

See abend (abnormal termination) ABEND macro DIAG, GCSREF completion code parameter GCSREF description GCSREF dump parameter GCSREF step parameter GCSREF system parameter GCSREF user parameter GCSREF ABEND operand of STAT command IPCSREF abend (abnormal termination) ADGCMS, APGDE, DIAG, SAACOM AVS CONPAO causing ADRCMS

codes SYSMSG see also AVS (APPC/VM VTAM support) abend codes, CMS (conversational monitor system) abend codes, CP (control program) abend codes, GCS (group control system) abend codes, TSAF (transparent services access facility) abend codes conditions ALLOCATE (APPC) CONGREF CONFIRM (APPC) CONGREF CONFIRMED (APPC) CONGREF DEALLOCATE (APPC) CONGREF RECEIVE\_AND\_WAIT (APPC) CONGREF REQUEST\_TO\_SEND (APPC) CONGREF responding to AVS abends CONPAO responding to TSAF abends CONPAO SEND DATA (APPC) CONGREF SEND\_ERROR (APPC) CONGREF dumps, system OPGDE, SYSCMD effect on DLBL definitions CMSREF FILEDEF definitions CMSREF virtual screen definitions CMSREF window definitions CMSREF exit routines, clearing or setting ADRCMS abend exit routine search order ADGCMS abend processing ADGCMS **AVS DIAG** checklist for reporting CMS DIAG checklist for reporting CP DIAG checklist for reporting GCS DIAG CMS, determining reason for DIAG code ADMIN creating abend exit routines ADGCMS debugging DIAG deleting abend exit routines ADGCMS dump, CP See CP abend dump forcing an abend ADGCMS GCS DIAG macros defining abend exit routines **ADGCMS** 

for CMSBATCH command CMSREF

in PVM SECUR

messages DIAG	abstracts of VM/SP manuals
overview of ADGCMS	Administration INTRO
processing DIAG	Application Development Guide for CMS
program check DIAG	INTRO
clearing file definitions ADGCMS	Application Development Guide for
keeping SVC handlers across ADRCMS	FORTRAN and COBOL INTRO
saving nucleus extensions across ADRCMS	Application Development Reference for CMS
saving saved segments across ADRCMS	INTRO
saving subcommands across ADRCMS	CMS Command Reference INTRO
saving subpools across ADRCMS	CMS Primer INTRO
programmable operator facility SFPROG	CMS Primer for Line-Oriented Terminals
resetting abend exit routines ADGCMS	INTRO
save area DIAG	CMS Shared File System Administration
spooling considerations GENCMD	INTRO
TSAF DIAG, CONPAO	CMS User's Guide INTRO
types of DIAG	Connectivity Planning, Administration, and
work area DIAG	Operation INTRO
778 DIAG	Connectivity Programming Guide and
80A DIAG	Reference INTRO
804 <b>DIAG</b>	CP General User Command Reference INTRO
878 <b>DIAG</b>	CP System Command Reference INTRO
ABENDaaaaaa FAILURE code (keyword	Distributed Data Processing Guide INTRO
definition) IPCSREF	EXEC 2 Reference INTRO
abending a program ADRCMS	General Information INTRO
ABNEXIT macro	Group Control System Command and Macro
CLR option ADRCMS	Reference INTRO
creating abend exit routines ADGCMS	Installation Guide INTRO
deleting abend exit routines ADGCMS	IPCS Guide and Reference INTRO
ERROR = operand ADRCMS	Operator's Guide INTRO
EXIT = operand ADRCMS	Planning Guide and Reference INTRO
RESET option ADRCMS	Programmer's Guide to the Server-Requester
resetting abend exit routines ADGCMS	Programming Interface for VM/SP INTRO
SET option ADRCMS	Release 6 Guide INTRO
UWORD = operand ADRCMS	RSCS Networking Version 2 General
abnormal change in flow of control SPIREF	Information INTRO
abnormal end (abend)	RSCS Planning and Installation INTRO
See abend (abnormal termination)	Running Guest Operating Systems INTRO
abnormal termination	Service Guide INTRO
See abend (abnormal termination)	System Facilities for Programming INTRO
ABS function SPIREF	System Messages and Codes INTRO
absolute address	System Messages Cross-Reference INTRO
definition ADMIN, SYSMSG	System Product Editor Command and
absolute column number XEDITUG	Macro Reference INTRO
specifying column-target as XEDIT	System Product Editor User's Guide INTRO
absolute line number as target XEDIT,	System Product Interpreter Reference INTRO
XEDITUG	System Product Interpreter User's Guide
example of XEDITUG	INTRO
absolute value	Terminal Reference INTRO
finding using ABS function SPIREF	abuttal SPIUG

used with exponentiation SPIREF

ACB macro (VSAM) GCSREF	privileges
bufnd parameter GCSREF	granting ADRCMS
bufni parameter GCSREF	revoking ADRCMS
bufsp parameter GCSREF	READ ONLY SECUR
ddname parameter GCSREF	READ/WRITE SECUR
description GCSREF	security
exlst parameter GCSREF	in APPC/VM communications CMSMIG
macrf parameter GCSREF	information CONPAO, SFSAD
marea parameter GCSREF	token CONPAO
mlen parameter GCSREF	verification routines ADMIN
passwd parameter GCSREF	ACCESS command APGDE, CMSMIG,
strno parameter GCSREF	CMSREF, CMSUG, GCSREF
ACCEPT	accessing
IUCV function CONGREF, SFPROG	directories INTRO
completion CONGREF	minidisks INTRO
condition codes and return codes	OS/MVS data sets ADGCMS
CONGREF	batch job statement INTRO
parameter descriptions CONGREF	cuu operand GCSREF
parameter list CONGREF, SFPROG	description GCSREF
program exceptions CONGREF	ERASE option CMSREF
return codes CONGREF	examples CMSREF, INTRO
state changes CONGREF	ext operand GCSREF
trace table entry format SFPROG	first command after IPL CMSREF
using SFPROG	fn ft fm operand GCSREF
logical device support facility function	format of ADGCMS
SFPROG	mode operand GCSREF
Accept_Conversation (CMACCP) routine	modules included in resident directory
CONGREF	ADGCMS
call description SAACOM	NODISK option CMSREF
example flow using <b>SAACOM</b>	NOPROF option CMSREF
accepting a connection CONGREF	NOSAVE option CMSREF
access	read-only access CMSREF
checking, global SECUR	response when you access VSAM disks
control	ADGCMS
to SQL/DS data base SECUR	SAVEONLY option CMSREF
to SQL/DS virtual machine SECUR	shared file CMSREF
using DMPP SECUR	usage with DEFINE command CMSREF
using RACF SECUR	used with OS/MVS disks ADGCMS
using SFS SECUR	access method service (AMS)
control groups PLNGDE	See AMS (access method services)
defining PLNGDE	Access Method (ACF/VTAM) for VM/SP
modes GENCMD	INTRO
defining for minidisks PLNGDE	accessability
password GENCMD	of TSAF collection resources CMSMIG
required for file pool minidisks SFSAD	of resources CONPAO
MULTIPLE SECUR	
passwords SECUR	

accessing	facility SFSAD
access method services ADGCMS	brief overview of SFSAD
another user's directory CMSLOT, PRIMER, SFSAD	customizing records created by SFSAD DMSWRACC Write Accounting Record
	<del>_</del>
diagnostic information saved for protected	routine SFSAD
application facility users SFPROG	exit routine for SFSAD
diagnostic IPL and re-IPL information	in dedicated maintenance mode SFSAD
SFPROG	records generated by SFSAD
directories CMSLOT, CMSUG, PRIMER	start-up parameters related to SFSAD
directories of VSE libraries ADGCMS	starting SFSAD
DOS disks ADGCMS	stopping SFSAD
file modes	information, displaying GENCMD
as read-only extensions CMSUG	number
in CMS batch virtual machine CMSUG	defining in directory <b>PLNGDE</b>
master file directories for minidisks CMSUG	records SFPROG
minidisks CMSUG	comparison of types ADMIN
minidisks with a saved file directory	created by user ADMIN
CMSREF	for AUTOLOG, LOGON, and LINK
OS/MVS disks ADGCMS	journaling ADMIN
other user's SFS directories, read-only	for the Vector Facility ADMIN
restrictions CMSMIG	format for dedicated devices and
REXX variables from a program	temporary disk space ADMIN
DMSCCE (Calling a REXX EXEC)	format for virtual machines ADMIN
ADRCMS	generating SFPROG
DMSCDR (Drop a REXX Variable)	SYSACNT macro CONPAO
ADRCMS	when to punch ADMIN
DMSCGR (Get a REXX Variable)	records, AVS
ADRCMS	AGWACI ASSEMBLE CONPAO
DMSCGS (Get Special REXX Values)	conversation CONPAO
ADRCMS	generating CONPAO
DMSCGX (Get the Next REXX Variable)	initialization CONPAO
ADRCMS	termination CONPAO
DMSCSR (Set a REXX Variable) ADRCMS	records, TSAF
VSE system residence volume ADGCMS	generating CONPAO
ACCOUNT directory control statement PLNGDE	initialization CONPAO
MVS guest RGOS	link CONPAO
operands PLNGDE	session CONPAO
acctnum1 PLNGDE	termination CONPAO
distcode PLNGDE	user options ADMIN
VSE RGOS	VM SNA support SFPROG
account number TERMREF	<del>-</del>
	ACCT encound
replacing directory entry SFPROG	ACCT operand of OPTION directory control statement
ACCOUNT start-up parameter SFSAD	•
accounting	SFSAD
ACCTOFF routine ADMIN	accuracy in calculations, changing SPIUG
ACCTON routine ADMIN	ACF/SSP (Advanced Communications
activating the TOD-clock interface SFPROG	Function/System Support Programs)
data	INTRO
closing spool files SYSCMD	ACF/VTAM (Advanced Communications
creating records SYSCMD	Function for VTAM)
processing SYSCMD	See VTAM (Virtual Telecommunications
resetting accumulated data SYSCMD	Access Method)
exit SFSAD	

ACIGROUP directory control statement ADMIN, PLNGDE operands PLNGDE groupname PLNGDE ACK option of NOTE command CMSREF acknowledgement CMSLOT, PRIMER ACNT command ADMIN described SYSCMD operands ALL SYSCMD CLOSE SYSCMD userid SYSCMD response SYSCMD summary OPGDE, SYSCMD syntax diagram, class A SYSCMD ACNT operand of SET command GENCMD acoustic coupler TERMREF **ACTION** option of EXTRACT XEDIT of QUERY XEDIT action routines SFPROG See also programmable operator facility call interface SFPROG DMSPOL SFPROG DMSPOR SFPROG **GET SFPROG** LGLOPR SFPROG **QUERY SFPROG** SET SFPROG STOP SFPROG TOFB SFPROG TOVM SFPROG **DMSPOS SFPROG** error message and response handling **SFPROG EXEC SFPROG** handling console I/O SFPROG interface SFPROG parameter interface SFPROG supplied SFPROG writing SFPROG ACTION, VSE linkage editor control statement activating the TOD-clock accounting interface **SFPROG** activation operands

active disk table (ADT) ADGCMS, DIAG active file table (AFT) DIAG active loops SPIREF ACTIVE operand of NETWORK command SYSCMD of QUERY command SYSCMD active task DIAG active wait, definition ADMIN, SYSMSG display page migration ADMIN ADAPTER operand of RDEVICE macro PLNGDE ADCON-free module, installing as nucleus extension CMSREF ADD RGOS ADD command of DMS/CMS APGDE ADD function of MACLIB command APGDE of TXTLIB command APGDE ADD LINK command (TSAF) CONPAO ADD option of MACLIB command CMSREF of NOTE command CMSREF ADD subcommand of XEDIT command APGDE, XEDIT example of XEDIT ADDENTRY macro ADGCMS, ADRCMS, APGDE, CMSMIG, SRPI assembly message (MNOTE) ADRCMS Communications Module termination notification list ADRCMS entry-name placed on Communications Module termination notification list ADRCMS ADDENTRY subcommand SRPI adding a console function ADMIN a member to a MACLIB ADGCMS BRIEF section to HELP files CMSUG data from another file PRIMER dedicated channels **GENCMD** dedicated devices **GENCMD** DESCRIPT section to HELP files CMSUG DETAIL section to HELP files CMSUG ERRORS section to HELP files CMSUG FORMAT section to HELP files CMSUG HELP components CMSUG

of CPTRAP command SYSCMD

Refer to the foldout page at the back of this book for a chart of abbreviations and their corresponding manuals.

lines	setting ADGCMS, CMSMIG
continuously XEDIT, XEDITUG	valid combinations with residency mode
of indented text XEDIT, XEDITUG	CMSMIG
using A (prefix subcommand) XEDIT,	when to specify ADGCMS
XEDITUG	bimodal addressing ADGCMS, CMSMIG
using ADD XEDIT	comparison between System/370 and
using I (prefix subcommand) XEDIT	370-XA ADGCMS, CMSMIG
using SI XEDIT, XEDITUG	conventions for 31-bit programs ADGCMS,
to a file PRIMER	CMSMIG
national language information for an	exception
application ADMIN, SFPROG	ACCEPT CONGREF
new print buffer images ADMIN	CONNECT CONGREF
NOTES section to HELP files CMSUG	DCLBFR CONGREF
OPTIONS section to HELP files CMSUG	DESCRIBE CONGREF
PARMS section to HELP files CMSUG	RECEIVE CONGREF
RELATED section to HELP files CMSUG	SENDCNF CONGREF
subcommands XEDITUG	SENDCNFD CONGREF
text to a line	SENDDATA CONGREF
from edit mode CMSLOT	SENDERR CONGREF
from input mode CMSLOT	SENDREQ CONGREF
text to end of line XEDIT, XEDITUG	SETCMASK CONGREF
in typewriter mode XEDITUG	SETMASK CONGREF
addition SPIUG	SEVER CONGREF
definition SPIREF	TESTCMPL CONGREF
operator SPIREF, SPIUG	free storage management ADGCMS
address	mode
AVS modules, displaying IPCSREF	determining current setting ADRCMS
entry in a names file CMSLOT	switching ADRCMS
function SPIREF	switching inline ADRCMS
instruction SPIREF	remote bisync terminals and printers
lists CONGREF	PLNGDE
of AVS blocks, displaying IPCSREF	residency mode (RMODE)
rules, preferred MVS guests RGOS	definition of ADGCMS, CMSMIG
settings saved during subroutine calls	setting ADGCMS, CMSMIG
SPIREF	when to specify ADGCMS
space INTRO	sample storage layout ADGCMS, CMSMIG
stop DIAG	virtual 3880 Storage Control ADMIN
translation INTRO	ADDRESS = operand
definition ADMIN, SYSMSG	AMODESW CALL ADRCMS
virtual, for unit record devices CMSUG ADDRESS instruction SPIUG	ADDRQRY function ADMIN, SFPROG
ADDRESS instruction SPIUG ADDRESS operand	addr, variable
of RCHANNEL macro PLNGDE	described GENCMD, SYSCMD ADDR = operand
of RCTLUNIT macro PLNGDE	CMSSTOR OBTAIN ADRCMS
of RDEVICE macro PLNGDE	CMSSTOR OBTAIN ADREMS  CMSSTOR RELEASE ADRCMS
addressability, parameter CONGREF	adjacent subcommands separated by line end
addresses, four-digit device CMSMIG	characters <b>XEDIT</b>
addressing	ADMIN start-up parameter SFSAD
addressing mode (AMODE)	specified for VMSYS and VMSYSU SFSAD
definition of ADGCMS, CMSMIG	specified for viving 13 and viving 130 SPSAD
manipulating CMSMIG	
manipulating with AMODESW macro	
mampaiaing with AMODESW matte	

**ADGCMS** 

administration authority CMSUG Advanced Communications Function/System **DELETE ADMINISTRATOR command** Support Programs (ACF/SSP) INTRO **SFSAD** advanced function calls deleting SFSAD description SAACOM description of SFSAD examples SAACOM ENROLL ADMIN command SFSAD list SAACOM for VMSYS and VMSYSU SFSAD advanced function printing GENCMD GRANT ADMIN operator command SFSAD conversion status GENCMD Advanced Program-to-Program Communication granting SFSAD permanently SFSAD (APPC) GIM via ADMIN start-up parameter SFSAD See APPC/VM (Advanced Programinternal recording of SFSAD to-Program Communication/VM) REVOKE ADMIN operator command advancing the line pointer using a target XEDIT when ESECURITY is in effect SFSAD using DOWN XEDIT administration commands SFSAD using NEXT XEDIT administration machine SFSAD advantages of the AP/MP environment See also administration authority See Diagnosis Reference defining SFSAD facilitating an AP/MP environment MAXCONN setting for SFSAD See Diagnosis Reference work minidisk for SFSAD AEB block DIAG ADRP (Auto-Deactivation of Restricted SIEAEQ DIAG Passwords) ADMIN, INST, VMCSCHDX DIAG defining non-restricted user logon automatic reset OPGDE passwords INST definition ADMIN, SYSMSG implied ADMIN function INST in AP or MP mode ADMIN restricted password list INST RPWLIST DATA file INST set for specified user SYSCMD ADSTOP command ADMIN, CMSUG, setting DIAG, GENCMD for AP/MP installations GENCMD debugging aid INTRO relation to the logon process GENCMD described GENCMD usage with attached processor OPGDE how to set address stops DIAG AFFINITY operand for system generation INTRO operands hexloc GENCMD of QUERY command SYSCMD OFF GENCMD of SET command ADMIN, GENCMD, **OPGDE, SYSCMD** preparing to use GENCMD responses GENCMD AFT (active file table) **DIAG** segment protection ADMIN agents SFSAD turning off **GENCMD** calculating number of SFSAD usage notes GENCMD AGWSP CNTRL ADT (active disk table) ADGCMS, DIAG contents SERV advanced application, COBOL INTRO function SERV Advanced Communications Function for the AGW ACTIVATE GATEWAY command Virtual Telecommunications Access (AVS) CONPAO Method (ACF/VTAM) GIM AGW CNOS command (AVS) CONPAO See VTAM (Virtual Telecommunications

Refer to the foldout page at the back of this book for a chart of abbreviations and their corresponding manuals.

Access Method)

AGW DEACTIVE CONV command (AVS)	erased SFSAD
CONPAO	erasing ADRCMS
AGW DEACTIVE GATEWAY command	locking CMSUG
(AVS) CONPAO	maximums related to SFSAD
AGW QUERY command (AVS) CONPAO	moving/relocating CMSREF
AGW QUIESCE command (AVS) CONPAO	querying CMSLOT, PRIMER
AGW SET ETRACE command DIAG	using ALIALIST CMSUG
AGW SET ETRACE command (AVS)	using QUERY ALIAS CMSUG
CONPAO	revoked SFSAD
AGW SET ITRACE command DIAG	when moving to another file pool SFSAD
AGW SET ITRACE command (AVS)	when transferring ownership SFSAD
CONPAO	ALIGN option of ASSEMBLE command
AGW START command (AVS) CONPAO	CMSREF
AGW STOP command (AVS) CONPAO	alignment of boundaries in assembler program
AGWACI ASSEMBLE file CONPAO, INST	statements CMSREF
AGWPROF GCS CONPAO	ALIGN2 option of LKED command CMSREF
AGWTUN ASSEMBLE file CONPAO, INST	ALL XEDITUG
aid	operand
PL/I debugging INTRO	of CONVERT COMMANDS command
program development, COBOL INTRO	CMSREF
ALARM VSCREEN command CMSUG	of ACNT command SYSCMD
description CMSREF	of CACHE command SYSCMD
format CMSREF	of CHANGE command GENCMD,
messages CMSREF	SYSCMD
operands	of DISABLE command SYSCMD
vname CMSREF	of DRAIN command SYSCMD
responses CMSREF	of ENABLE command SYSCMD
alarm, sounding CMSREF, XEDIT, XEDITUG	of FDISPLAY subcommand IPCSREF
algebraic precedence SPIREF	of FLUSH command SYSCMD
algorithms	of FREE command SYSCMD
•	of HOLD command SYSCMD
prototyping APGDE	of MESSAGE command SYSCMD
cryptographic SECUR	
ALIALIST command CMSLOT, PRIMER	of MONITOR command SYSCMD
description CMSUG	of MSGNOH command SYSCMD
PF keys CMSUG	of PURGE command GENCMD,
ALIAS parameter	SYSCMD
DMSOPDIR (SFS Open Directory)	of QUERY command GENCMD,
ADRCMS	SYSCMD
aliases CMSREF	of QUERY command. SYSCMD
creating ADRCMS, CMSLOT, PRIMER	of QUERY VIRTUAL command
as an administrator SFSAD	GENCMD
description CMSUG	of SCREEN command GENCMD
for files ADGCMS	of SELECT subcommand IPCSREF
on a locked file/directory ADRCMS	of SET command SYSCMD
to another user's file CMSUG	of SPTAPE command SYSCMD
to your own file CMSUG	of START command SYSCMD
definition CMSLOT, CMSREF, PRIMER	of STAT command IPCSREF
deleting CMSREF	of TACTIVE subcommand IPCSREF
displaying specified alias information via	of TLOADL subcommand IPCSREF
LISTFILE CMSREF	of TRACE command GENCMD
effect of restore on SFSAD	of TSAB subcommand IPCSREF
entry point IPCSREF	of TRANSFER command GENCMD,
	SYSCMD
	of WARNING command SYSCMD

option allocation of DETAIL HELP CMSUG of main storage SECUR of processor time INTRO of GENMOD command CMSREF of LISTIO command CMSREF rates, overflow ADMIN, SYSMSG of LOCATE subcommand IPCSREF ALLOCD value on APPCVM CONNECT CONGREF parameter DMSPOPWU (Pop Default Workunitid) ALOCBLOK chaining automatic reordering of ADMIN ADRCMS DMSREVOK (SFS Revoke Authority) structure ADMIN ALOGIC option of ASSEMBLE command **ADRCMS** of SELECT subcommand IPCSREF **CMSREF** macro XEDIT alphabetical order sorting CMSLOT, XEDIT example of XEDIT alphabetics ALL NOTEBOOK file CMSLOT, PRIMER checking with DATATYPE SPIREF ALLOC option of LISTFILE command used as symbols SPIREF **CMSREF** ALPHANUM command of DMS/CMS APGDE ALLOCATE control statement ADMIN, alphanumeric checking with DATATYPE **SPIREF SFPROG** example of operation SFPROG ALT option Allocate (CMALLC) routine CONGREF in SET XEDIT call description SAACOM of EXTRACT XEDIT example flow using SAACOM ALT (alternative function) key TERMREF ALLOCATE, APPC verb ALTCH operand abend conditions CONGREF of RCTLUNIT macro PLNGDE mapped with APPC/VM CONGREF ALTCONS operand parameters CONGREF of RIOGEN macro PLNGDE state changes CONGREF ALTCU operand allocating of RDEVICE macro PLNGDE DASD space ALTER macro XEDIT for CP use ADMIN example of XEDIT on CP-owned volumes PLNGDE, SFPROG ALTER subcommand of XEDIT command APGDE, XEDITUG Expanded Storage SYSPAG macro PLNGDE in typewriter mode XEDITUG ALTER TABLE command of SQL APGDE SYSXSTOR macro PLNGDE extents on OS disks ADGCMS alteration count CMSLOT, PRIMER, XEDIT, free storage ADRCMS **XEDITUG** GCS volume INST altering paging space INST a character XEDIT, XEDITUG **Paging Storage** in typewriter mode XEDITUG SYSPAG macro PLNGDE characteristics of spool files CMSUG SYSXSTOR macro PLNGDE contents of real storage SYSCMD real storage RGOS contents of storage DIAG space for VSAM files (CMS/DOS) ADGCMS existing HELP files CMSUG space for VSAM files (OS) ADGCMS external attributes of files system volumes INST closed spool SYSCMD VSAM extents on OS disks and minidisks input SYSCMD **ADGCMS** output SYSCMD reader SYSCMD

Refer to the foldout page at the back of this book for a chart of abbreviations and their corresponding manuals.

AMODESW SET ADRCMS flow within a repetitive DO loop SPIREF logical editing symbols GENCMD AMODE = operand ADRCMS REXX variables SPIREF SAVE = operand ADRCMS spool file attributes GENCMD description of CMSMIG spooled device attributes GENCMD direct branch linkage ADGCMS storage contents DIAG examples ADGCMS general formats ADGCMS, ADRCMS, system files, XEDIT facilities OPGDE virtual machine environment GENCMD **CMSMIG** virtual printer file attributes GENCMD overview of function ADGCMS virtual punch file attributes GENCMD AMODE = operandvirtual reader file attributes GENCMD AMODESW CALL ADRCMS AMODESW RETURN ADRCMS virtual storage GENCMD alternate AMODESW SET ADRCMS class override file ADMIN NUCEXT SET ADRCMS SUBCOM SET ADRCMS CMS nucleus placement INST console AMS (access method services) at system generation OPGDE allocating VSAM space automatic logon OPGDE for OS VSAM users CMSREF defining in RIOGEN macro PLNGDE in CMS/DOS CMSREF disconnecting OPGDE control statements, executing ADGCMS multiple **OPGDE** DEFINE CLUSTER statement ADGCMS specifying OPGDE **DEFINE** control statement ADGCMS valid terminal designations OPGDE **DEFINE USERCATALOG ADGCMS** VM/SP HPO, selecting OPGDE defining a master catalog ADGCMS CP nucleus support OPGDE defining OS input/output files ADGCMS GCS nucleus placement INST DELETE control statement ADGCMS nucleus OPGDE determine free space extents for CMSREF nucleus support ADMIN executing in CMS, examples ADGCMS path support PLAN functions alternate CPU recovery (ACR), when not to **EXPORT ADGCMS** use RGOS IMPORT ADGCMS alternate userid, DIAGNOSE code X'D4' REPRO ADGCMS **SFPROG** in CMS ADGCMS alternative function (ALT) key TERMREF in CMS/DOS ADGCMS alternatives for read-only restrictions on access installing CMSAMS saved segment INST **CMSMIG** invoking in CMS CMSREF ALTID parameter of CONNECT CONGREF LISTING file created by CMSREF Alt = XEDIT, XEDITUGrestrictions on using for OS and VSE users ALT = n, meaning of **PRIMER ADGCMS AMODE** return codes ADGCMS See addressing terminal sessions ADGCMS AMODE pseudo-op ADGCMS, CMSMIG using tape input/output ADGCMS AMODESW macro AMSERV command CMSUG advantages of ADGCMS creating tape files ADGCMS AMODESW CALL ADRCMS description CMSREF ADDRESS = operand ADRCMS files, examples ADGCMS AMODE = operand ADRCMS filetype ADGCMS REGS = operand ADRCMS format of ADGCMS AMODESW QRY ADRCMS functions under CMS ADGCMS AMODESW RETURN ADRCMS LISTING file CMSREF AMODE = operand ADRCMS output listings ADGCMS REG = operand ADRCMS

PRINT option CMSREF responses TAPIN option CMSREF common IPCSREF TAPOUT option CMSREF print IPCSREF using to read tapes ADGCMS tape IPCSREF analyst function type SYSCMD usage notes IPCSREF analyzing APAR number and accepting the security risk SECUR definition SERV performance for MVS guest RGOS used in AUX file entry for patch SERV system performance ADMIN used in service file types SERV anchor blocks, storage DIAG APAR operand of PRB command IPCSREF AND operand APAR output field of STAT command IPCSREF APAR (authorized program analysis report) of SET command SYSCMD AND operator SPIREF, SPIUG **IPCSREF, SECUR** AND parameter of SELECT subcommand completing CUSTOMER PROFILE file **IPCSREF INST** AND symbol used in string target XEDIT, definition ADMIN, IPCSREF, SERV, **XEDITUG** SYSMSG ANDing character strings together SPIREF submission IPCSREF AND, logical SPIREF used in Service Control File (SNA service) annotating your console sheet GENCMD ANSBUF parameter of SENDDATA CONGREF APARED operand of STAT command ANSLEN parameter of SENDDATA CONGREF **IPCSREF** ANSLIST parameter of SENDDATA CONGREF APL TERMREF answer data from the local CP SFPROG character conversion XEDIT Any user control of translation tables GENCMD described GENCMD, OPGDE, SYSCMD keys, allowing the use of **XEDIT** ANY3800 operand publications TERMREF of START command SYSCMD APL operand AP (attached processor) installation of EXTRACT XEDIT DMKSYS considerations INST of QUERY XEDIT product parameter file considerations INST of SET XEDIT AP (attached processor) mode DIAG, IPCSREF of TERMINAL command GENCMD affinity ADMIN of TRANSFER XEDIT definition ADMIN, SYSMSG APLOAD EXEC SERV generating a false APL2 INTRO for the preferred machine assist guest APP tag, product parameter file SERV **RGOS** APPC (Advanced Program-to-Program restrictions, general Communications)/VM VSE/SP guest RGOS See APPC/VM (Advanced Program-totrace table DIAG Program Communications/VM) AP-generated VM/SP HPO systems APPCPASS directory control statement using for MVS guest RGOS CONPAO, PLNGDE, SFSAD APAR command DIAG operands customer profile sample IPCSREF luname PLNGDE description IPCSREF password PLNGDE example APAR form IPCSREF userid PLNGDE example session IPCSREF APPC/VM format IPCSREF See APPC/VM (Advanced Programmessages IPCSREF to-Program Communications/VM)

Refer to the foldout page at the back of this book for a chart of abbreviations and their corresponding manuals.

APPC/VM synchronous event (type X'0C')	APPEND option
entry <b>DIAG</b>	of COPYFILE command CMSREF
APPC/VM VTAM	of FILELIST command CMSREF
See AVS (APPC/VM VTAM support)	of LISTFILE command CMSREF
APPC/VM VTAM Support (AVS)	of LISTIO command CMSREF
See AVS (APPC/VM VTAM support)	appending
APPC/VM (Advanced Program-to-Program	data to existing files ADGCMS
Communications/VM)	text XEDIT
CONPAO, GIM, INTRO, SAACOM, SFSAD	text to line XEDITUG
ADGCMS, INTRO, SECUR	in typewriter mode <b>XEDITUG</b>
See also LU 6.2, AVS (APPC/VM VTAM	APPL definition statement CONPAO
Support)	APPLDATA call class, as used by SFS SFSAD
access security CMSMIG	APPLDATA class monitor records ADMIN
communications	APPLDATA operand
between collection and network CONPAO	of MONITOR command SYSCMD
in single VM system CONPAO	application
overview CONGREF	advanced, COBOL INTRO
summary CONPAO	checking new programs INTRO
within a collection CONPAO	considerations when enrolling users SFSAD
communicating with programs in SNA	debugging <b>DIAG</b>
network CMSMIG	debugging applications INTRO
connectivity INTRO	developing under CMS INTRO
conversations in CONGREF	errors, recovering from SFSAD
CPI Communications CMSMIG	facility for debugging INTRO
data CONGREF	IBM Enhanced Connectivity Facilities
definition ADMIN, SYSMSG	INTRO
description of CONPAO, INTRO	nonpaging ADMIN, SYSMSG
differences from IUCV CONGREF	profile pools of ISPF APGDE
error conditions CONGREF	program development IPCSREF
error/sever codes CONGREF	program products INTRO
functions CONGREF	running under CMS INTRO
CONNECT CONGREF	steps in developing INTRO
not supported CONGREF	Application System (AS) GIM, INTRO
RECEIVE CONGREF	applications
SENDCNF CONGREF	Application System (AS) GIM
SENDCNFD CONGREF	DisplayWrite/370 GIM
SENDDATA CONGREF	IBM Professional Office System (PROFS)
SENDERR CONGREF	GIM
SENDREQ CONGREF	in full-screen CMS CMSUG
SEVER CONGREF	Program Development GIM
high-level language interface to CMSMIG	SolutionPac GIM
interrupts CONGREF	Structured Query Language/Data System
migration CMSMIG	(SQL/DS) GIM
paths CONGREF, SFSAD	The Information Facility (TIF) GIM
performance CONGREF	VMCF SFPROG
return codes CONGREF	applid, variable
REXX language interface to CMSMIG	described GENCMD, SYSCMD
security types CMSMIG	APPLmon directory option PLNGDE
transparent access CMSMIG	APPLMON option of the OPTION control
using CMSIUCV support CMSMIG	statement SFSAD
services CONPAO	APPLMSG macro
states CONGREF	APPLID = operand ADRCMS
type 6.2 logical unit SAACOM	BUFFA = operand ADRCMS
verbs SAACOM	building parameter list ADRCMS
	COMP = operand ADRCMS

creating a header for messages ADRCMS apply exceptions SERV CSECT = operand ADRCMS apply list display format of message ADRCMS corrective service SERV displaying and retrieving messages ADGCMS example SERV DISP = operand ADRCMS function SERV execute format ADRCMS PUT service SERV FMTA = operand ADRCMS Apply List (SNA service) FMT = operand ADRCMS contents SERV generating code to fill parameter list definition SERV **ADRCMS** example SERV generating storage area for parameter list applying service **ADRCMS** exception processing SERV HEADER = operand ADRCMS PUT/COR procedure SERV invoking message facility ADRCMS AP/MP (attached processor/multiprocessor) LETA = operand ADRCMS mode ADMIN, SYSMSG LET = operand ADRCMS ARBCHAR option LINEA = operand ADRCMS of EXTRACT XEDIT LINE = operand ADRCMS of QUERY XEDIT of SET XEDIT list format ADRCMS MAXSUBS = operand ADRCMS of TRANSFER XEDIT message format ADRCMS arbitrary character XEDITUG message line number ADRCMS defining **XEDIT** message number ADRCMS extended XEDIT message repository ADRCMS used in targets XEDIT message severity ADRCMS used with CHANGE XEDIT MF = operand ADRCMS architected limits SFSAD NUMA = operand ADRCMS architecture abend processing ADGCMS NUM = operand ADRCMS processing ADRCMS addressing reserving program storage ADRCMS addressing mode (AMODE) ADGCMS, retrieving messages from message **CMSMIG** repository ADRCMS addressing mode (AMODE), setting specifying buffer address ADRCMS ADGCMS, CMSMIG specifying call type ADRCMS bimodal addressing ADGCMS, CMSMIG specifying macro format ADRCMS comparison between System/370 and specifying message text ADRCMS 370-XA ADGCMS, CMSMIG standard format ADRCMS residency mode (RMODE) ADGCMS, substitutions ADRCMS **CMSMIG** SUB = operand ADRCMS assembler instructions TEXTA = operand ADRCMS AMODE pseudo-op ADGCMS, CMSMIG TEXT = operand ADRCMS comparison between System/370 and TYPCALL = operand ADRCMS 370-XA ADGCMS, CMSMIG RMODE pseudo-op ADGCMS, CMSMIG local updates to VM/SP HPO INTRO assembler language I/O instructions ADGCMS apply exception log (\$VMFAPP \$ERRLOG) CMS I/O support example SERV DIAGNOSE X'A4' ADGCMS general description SERV DIAGNOSE X'A8' ADGCMS message codes SERV overview ADGCMS preferred interface I/O macros ADGCMS

Refer to the foldout page at the back of this book for a chart of abbreviations and their corresponding manuals.

comparison between System/370 and	arguments EXEC2
370-XA ADGCMS	checking with ARG function SPIREF
console I/O ADGCMS	of a CALL instruction SPIUG
displaying messages at your terminal	of a function SPIUG
ADGCMS	of a subroutine SPIUG
full screen I/O ADGCMS	of EXECs SPIREF
reading lines from a terminal ADGCMS	of functions SPIREF
retrieving messages from a buffer ADGCMS	of subroutines SPIREF
writing lines from a terminal ADGCMS	parsing SPIUG
conventions for 31-bit programs ADGCMS,	passed to EXEC procedure
CMSMIG	assigning them to special variables
creating subpools ADGCMS	CMSREF
disk file I/O ADGCMS	passing to EXECs SPIREF
free storage management ADGCMS	passing to functions SPIREF
interrupt handling ADGCMS, CMSMIG	retrieving with ARG function SPIREF
I/O considerations CMSMIG	retrieving with ARG instruction SPIREF
PSWs, comparison between System/370 and	retrieving with the PARSE ARG instruction
370-XA ADGCMS, CMSMIG	SPIREF
residency mode (RMODE), setting	script &2 EXEC2
ADGCMS, CMSMIG	ARIOBLOK subcommand of IPCSSCAN
· · · · · · · · · · · · · · · · · · ·	command
sample storage layout ADGCMS, CMSMIG	<del> </del>
saved segments ADGCMS	description IPCSREF
Systems Application CMSMIG	example output IPCSREF
tape I/O ADGCMS	format IPCSREF
unit record I/O ADGCMS	functional category IPCSREF
rchitecture, 370-XA	messages IPCSREF
See 370-XA architecture	operand IPCSREF
rchiving a file pool SFSAD	responses IPCSREF
rea operand	usage note IPCSREF
of SCREEN command GENCMD	arithmetic
rea, variable	checking data SPIUG
described GENCMD, SYSCMD	combination rules SPIREF
reas	comparisons SPIREF
of display screen TERMREF	description SPIUG
SYSPAG, automatic reordering of	errors SPIREF
ADMIN	NUMERIC settings SPIREF
REGS subcommand of IPCSSCAN	operators SPIREF
command	overflow SPIREF
description IPCSREF	precision SPIREF
example output IPCSREF	underflow SPIREF
format IPCSREF	array
functional summary IPCSREF	description of SPIUG
messages IPCSREF	initialization of SPIREF
responses IPCSREF	setting up SPIREF
usage note IPCSREF	using compound symbols SPIUG
ARG function SPIREF, SPIUG	with more than one dimension SPIUG
ARG instruction SPIREF, SPIUG	AS vaddr operand
description of SPIUG	of ATTACH command SYSCMD
example of SPIUG	of NETWORK command SYSCMD
using literal patterns SPIUG	AS vaddr2 operand of GIVE command
ARG option of PARSE instruction SPIREF	SYSCMD
rg, variable	AS volid operand of ATTACH command
described GENCMD, SYSCMD	SYSCMD
GUULLUUG GELICITEEL D'EDCITEE	

ASA carriage control characters ADRCMS listed ADRCMS specified using PRINTL macro ADRCMS ascending order sorting CMSLOT, XEDIT **ASCII TERMREF** translate tables TERMREF for 2741 APL TERMREF for 3270 APL TERMREF for 3270 text feature TERMREF ASCIITBL operand of TERMINAL command GENCMD ASI interrupting under VM RGOS unsupported devices RGOS ASIPROC RGOS ASMGEND EXEC INTRO **ASMGEND EXEC** building system assembler SERV format SERV function SERV responses SERV usage notes SERV ASM3705 file type usage in CMS/DOS **CMSUG ASM3705 MODULE** files created by INST format INST function INST options INST usage notes INST **ASSEMBLE** assembler input ddname CMSREF command ALIGN option CMSREF ALOGIC option CMSREF **BUFSIZE** option **CMSREF** DECK option CMSREF definition INTRO description CMSREF DISK option CMSREF ESD option CMSREF example of use INTRO FLAG option CMSREF LIBMAC option CMSREF LINECOUN option CMSREF LIST option CMSREF listing control options for CMSREF MCALL option CMSREF

NOALIGN option CMSREF NOALOGIC option CMSREF NODECK option CMSREF NOESD option CMSREF NOLIBMAC option CMSREF **NOLIST option CMSREF** NOMCALL option CMSREF NOMLOGIC option CMSREF NONUM option CMSREF NOOBJECT option CMSREF NOPRINT option CMSREF NORENT option CMSREF NORLD option CMSREF NOSTMT option CMSREF NOTERM option CMSREF NOTEST option CMSREF NOXREF option CMSREF NOYFLAG option CMSREF NUMBER option CMSREF **OBJECT option CMSREF** output files produced ADGCMS PRINT option CMSREF RENT option CMSREF RLD option CMSREF STMT option CMSREF SYSPARM option CMSREF TERMINAL option CMSREF TEST option CMSREF usage in CMS CMSUG WORKSIZE option CMSREF XREF option CMSREF YFLAG option CMSREF filetype used as input to assembler CMSREF assembler building system assembler INST, SERV conditional assembly statements, listing **CMSREF** overriding CMS file defaults CMSREF using under CMS CMSREF ASSEMBLER H INTRO assembler instructions AMODE pseudo-op ADGCMS, CMSMIG **BAL** instruction conversion considerations ADGCMS, **CMSMIG** using AMODESW as a replacement ADGCMS, CMSMIG

MLOGIC option CMSREF

BALR instruction	FSWRITE macro CMSMIG
conversion considerations ADGCMS,	GETSID macro CMSMIG
CMSMIG	HNDEXT macro CMSMIG
using AMODESW as a replacement	HNDINT macro CMSMIG
ADGCMS, CMSMIG	HNDIO macro CMSMIG
BASSM instruction CMSMIG	HNDIUCV macro CMSMIG
BSM instruction CMSMIG	HNDSVC macro CMSMIG
comparison between System/370 and 370-XA ADGCMS, CMSMIG	interfaces that do not support 31-bit addressing <b>CMSMIG</b>
conversion considerations CMSMIG	I/O support CMSMIG
LA instruction, conversion considerations	new and changed macros CMSMIG
RMODE pseudo-op ADGCMS, CMSMIG	NUCEXT macro CMSMIG
SSM instruction, comparison to ENABLE	PARSECMD macro CMSMIG
macro CMSMIG	preferred interface macros CMSMIG
assembler language INTRO	PUNCHC macro CMSMIG
functions SPIUG	RDCARD macro CMSMIG
interface to APPC/VM CMSMIG	RDTAPE macro CMSMIG
	SCAN macro CMSMIG
macros supported by VSE ADGCMS, ADRCMS	SEGMENT macro
programming interface	comparison to DIAGNOSE X'64' CMSMIG
See CMS (conversational monitor system),	
programming interface	general formats CMSMIG
programs EXEC2	SUBCOM macro
SVC 202 calls EXEC2	general formats CMSMIG
tokenized plist EXEC2	SUBPOOL macro CMSMIG
untokenized plist EXEC2	System/370 compatibility considerations
subroutine APGDE	ENABLE macro CMSMIG
assembler macros, CMS	using for I/O CMSMIG
AMODESW macro	WRTAPE macro CMSMIG
description of CMSMIG	370-XA toleration considerations
general formats CMSMIG	ENABLE macro CMSMIG
APPLMSG macro CMSMIG	assembler programming interface
CMSCALL macro	See CMS (conversational monitor system)
call charts CMSMIG	programming interface
comparison to SVC 202 CMSMIG	assembler programs
description of CMSMIG	programs in CMS/DOS ADGCMS
CMSIUCV macro CMSMIG	VSAM programs in CMS ADGCMS
CMSRET macro CMSMIG	assembler server example (IBMABASE)
CMSSTOR macro	SRPI
comparison to DMSFREE and	ASSEMBLER XF INTRO
DMSFRET CMSMIG	assemble, defined INTRO
general formats CMSMIG	assembling programs ADGCMS
compatibility interface macros CMSMIG	See also program management
CONSOLE macro CMSMIG	file definitions ADGCMS
DMSFREE macro CMSMIG	identifying macro libraries prior to
comparison to CMSSTOR CMSMIG	assembly ADGCMS
DMSFRES macro CMSMIG	ASSGN command
DMSFRET macro CMSMIG	assigning programmer logical unit
comparison to CMSSTOR CMSMIG	ADGCMS
ENABLE macro	DEN option CMSREF
comparison to SSM instruction	description ADGCMS, CMSREF
CMSMIG	IGN option CMSREF
description of CMSMIG	LOWCASE option CMSREF
ESPEAD magra CMSMIC	DDINTED ontion CMCDEE

FSSTATE macro CMSMIG

PUNCH option CMSREF with FILELIST command CMSLOT READER option CMSREF with SORT command CMSLOT SYSxxx option CMSREF with TYPE command CMSLOT TAPn option CMSREF asymmetric multiprocessor TERMINAL option CMSREF DASD sharing with MVS guest RGOS TRTCH option CMSREF asynchronous communication **UA option CMSREF** compared with synchronous CONGREF **UPCASE option CMSREF** asynchronous MSS mount processing using to assign logical units ADGCMS See Diagnosis Reference 7TRACK option CMSREF VM/SP HPO processing of MSS 9TRACK option CMSREF cylinder faults See Diagnosis Reference assigning a name to a line XEDIT, XEDITUG asynchronous requests arguments EXEC2 checking for completion ADRCMS AT command of VS FORTRAN data to variables SPIREF disk devices ADGCMS interactive debug APGDE entering before program execution AT subcommand **ADGCMS** of TESTCOB command APGDE file mode letters CMSUG of TESTFORT command APGDE group names to users ADMIN atomic requests ADGCMS logical operator SFPROG ATSLINKS FILE CONPAO LGLOPR action routine SFPROG using ADD LINK to manipulate CONPAO LGLOPR command SFPROG using DELETE LINK to manipulate more than 8 privilege classes PLNGDE CONPAO physical devices ADGCMS ATSLOAD EXEC SERV to a virtual device ADGCMS ATSSP CNTRL unique resource IDs CONPAO contents SERV unique userids CONPAO function SERV assignment ATTACH command ADMIN, CONPAO, description of SPIREF, SPIUG INTRO, RGOS examples of SPIUG described SYSCMD logical unit, listing CMSREF operands of compound variables SPIREF AS vaddr SYSCMD assignment indicator (=) SPIREF AS volid SYSCMD assignment statements CHANNEL SYSCMD description of EXEC2 Laddr SYSCMD example EXEC2 PROC SYSCMD assignments raddr SYSCMD See assignment statements R/O SYSCMD **ASSIST** operand TO SYSTEM SYSCMD of SET command ADMIN, GENCMD TO userid SYSCMD assist, virtual machine TO \* SYSCMD See virtual machine, assist VOLID SYSCMD associative storage SPIREF 3330V SYSCMD responses SYSCMD asterisk (\*) in FILELIST display CMSLOT summary OPGDE, SYSCMD in RDRLIST display CMSLOT syntax diagram, class B SYSCMD with CHANGE command CMSLOT usage notes SYSCMD

Refer to the foldout page at the back of this book for a chart of abbreviations and their corresponding manuals.

ATTACH macro GCSREF	attention handling
de parameter GCSREF	terminal control of <b>GENCMD</b>
description GCSREF	attention interrupts TERMREF
dpmod parameter GCSREF	causing CMSREF, CMSUG
ecb parameter GCSREF	virtual machine CMSUG
ep parameter GCSREF	pending at virtual console GENCMD
eploc parameter GCSREF	signaling GENCMD
etxr parameter GCSREF	simulating <b>GENCMD</b>
execute format GCSREF	ATTENTION signaling <b>TERMREF</b>
jstcb parameter GCSREF	ATTN command CMSUG, GENCMD,
list format GCSREF	TERMREF
mf parameter GCSREF	described <b>GENCMD</b>
param parameter GCSREF	usage notes GENCMD
sf parameter GCSREF	ATTN function
shspl parameter GCSREF	stacking an input line ADRCMS
shspv parameter GCSREF	usage ADRCMS
sm parameter GCSREF	ATTN key TERMREF
szero parameter GCSREF	device key used to obtain function INST
vl parameter GCSREF	symbol used in procedures INST
ATTACH operand	ATTN operand
of QUERY command SYSCMD	of IPL command GENCMD
ATTACH resid operand	of TERMINAL command GENCMD
of NETWORK command SYSCMD	ATTR statement in ISPF panels APGDE
ATTACH (OS macro) APGDE	attributes
attached processor (AP)	changing spool file GENCMD
affinity ADMIN	modifying for 3800 printer GENCMD
application	modifying virtual device GENCMD
use of SET ASSIST GENCMD	LRECL INTRO
displaying load GENCMD	audible alarm TERMREF
environment, advantages of	AUDIT ddname SFSAD
See Diagnosis Reference	AUDIT operator command
attached processor (AP) mode DIAG,	instructions for using SFSAD
IPCSREF	reference information for SFSAD
examine real storage SFPROG	audit
trace table <b>DIAG</b>	complete SFSAD
attached processor (AP) system	output file SFSAD
AFFINITY command usage OPGDE	partial SFSAD
clock synchronization OPGDE	security SECUR
finding value of its prefix storage	trails SECUR
area (PSA) SYSCMD	AUDIT start-up parameter SFSAD
initialization OPGDE	auditing security SFSAD
locked shared pages	AUDIT operator command SFSAD
restriction OPGDE	brief overview of SFSAD
restarting <b>OPGDE</b>	changing output file for SFSAD
specifying one processor OPGDE	defining output file for SFSAD
system identification PLNGDE	FILEPOOL FORMAT AUDIT
SYSID macro PLNGDE	command SFSAD
attaching	formatted output SFSAD
and detaching volumes	formatting the output of SFSAD
user and system OPGDE	start-up parameters related to SFSAD
dedicated channels GENCMD	starting and stopping SFSAD
more than 410 devices to a virtual machine	AUDITPOINT field in FILEPOOL FORMAT
ADMIN	AUDIT output SFSAD

AUTH parameter DMSOPDIR (SFS Open Directory) **ADRCMS** AUTHCALL macro GCSREF description GCSREF ep parameter GCSREF eploc parameter GCSREF uword parameter GCSREF AUTHLIST command CMSLOT, PRIMER AUTHLIST display, PF keys CMSUG AUTHNAME macro GCSREF clr parameter GCSREF description GCSREF ep parameter GCSREF error parameter GCSREF execute format GCSREF list address format GCSREF list format GCSREF mf parameter GCSREF name parameter GCSREF set parameter GCSREF uword parameter GCSREF authority administrator CMSUG determining who has authority CMSLOT, PRIMER granting CMSLOT, CMSUG, PRIMER to a group of users CMSUG querying using AUTHLIST command CMSUG using QUERY AUTHORITY command **CMSUG** read on a directory CMSUG on a file CMSUG read authority on a directory CMSLOT, **PRIMER** read authority on a file CMSLOT, PRIMER revoking CMSLOT, CMSUG, PRIMER from a group of users CMSUG on a directory CMSUG on a file CMSUG write authority on a directory CMSLOT, PRIMER

write authority on a file CMSLOT, **PRIMER** AUTHORITY CHECKING DONE BY field in FILEPOOL FORMAT AUDIT output **SFSAD** AUTHORITY REQUIRED field in FILEPOOL FORMAT AUDIT output **SFSAD** authorization checking in RACF SECUR connect to gateways CONPAO connect to resources CONPAO connect to \*IDENT CONGREF default, to access private resources **CONPAO** gateway example, explicitly CONPAO manage gateways CONPAO revoke a resource CONGREF to manage resources global/local CONPAO private CONPAO to use system INTRO TSAF collection example, explicitly **CONPAO** Vector Facility ADMIN authorizations SFSAD effect of DELETE PUBLIC on SFSAD effect of DELETE USER on SFSAD effect of ENROLL PUBLIC on SFSAD effect of restore on SFSAD implicit SFSAD in a remote-use environment SFSAD using external security managers SFSAD when moving to another file pool SFSAD when transferring ownership SFSAD AUTHORIZE command INTRO AUTHORIZE function of VMCF SFPROG authorized program analysis report (APAR) See APAR (authorized program analysis report) AUTHREQ control statement for FILEPOOL FORMAT AUDIT SFSAD AUTHUSER macro GCSREF

description GCSREF

end parameter GCSREF name parameter GCSREF start parameter GCSREF

Refer to the foldout page at the back of this book for a chart of abbreviations and their corresponding manuals.

AU10 operand	save function for editors CMSUG
of NETWORK command SYSCMD	save XEDIT, XEDITUG
of SET command SYSCMD	in typewriter mode XEDITUG
of START command SYSCMD	volume mount and demount, 3330V
AUTO option	OPGDE
of INCLUDE command CMSREF	causes OPGDE
of LOAD command CMSREF	automatic monitoring
auto-deactivation of restricted passwords	overriding SYSCMD
(ADRP) ADMIN, INST, SECUR	using spool files SYSCMD
defining non-restricted user logon	initial program load SYSCMD
passwords INST	loss of space SYSCMD
function INST	shutdown SYSCMD
restricted password list INST	suspension SYSCMD
RPWLIST DATA file INST	system failure SYSCMD
auto-logging a server SFSAD	automatically
AUTOCR initialization parameter for CMS	saving your file CMSLOT, PRIMER
SFSAD	started backups SFSAD
AUTODISK operand	starting a server SFSAD
of MONITOR command SYSCMD	AUTOPOLL operand
AUTOLOG command ADMIN, CONPAO,	of SET command GENCMD
RGOS	AUTOREAD command TERMREF
described SYSCMD	AUTOREAD operand of CMS SET
operands	command for display terminals
password SYSCMD	CMSUG
userid SYSCMD	AUTOSAVE PRIMER
variable data SYSCMD	option in QUERY CMSLOT
responses SYSCMD	option in SET CMSLOT
summary OPGDE, SYSCMD	command usage in CMS CMSUG
syntax diagram, class A or B SYSCMD	autosave file CMSLOT
usage notes SYSCMD	AUTOSAVE function APGDE
AUTOLOG journaling	AUTOSAVE option
accounting records ADMIN	example of use INTRO
AUTOLOG1, directory entry PLNGDE	of EXTRACT XEDIT
MVS virtual machine RGOS	of QUERY XEDIT
userid SFSAD	of SET XEDIT
VSE RGOS	of TRANSFER XEDIT
automated CMS initialization INTRO	AUX record, control file
automated procedures INTRO	format SERV
automated system initialization (ASI)	function SERV
interrupting under VM RGOS	parameters SERV
unsupported devices RGOS	auxiliary .
automatic	control file
carriage return option on IPL command	creating with VMFAPPLY EXEC SERV
GENCMD	entry format for patch update file SERV
generation of CMS abend dumps DIAG	entry format for source update file SERV
IPL CMSUG	function SERV
invocation of the programmable operator	storage ADMIN, SYSMSG
SFPROG	directories
line wrapping XEDIT, XEDITUG	adding ADGCMS
loading, suppressing GENCMD	creating CMSREF
reordering of SYSPAG areas ADMIN	building SERV
reordering of 5151 AO areas ADMIN	DMSLADAD entry point ADGCMS
	DIVISLADAD CHUY POINT ADGUMS

establishing linkage ADGCMS AGW STOP CONPAO GENDIRT command ADGCMS overview CONPAO generating ADGCMS prefix CONPAO saving resources ADGCMS communicating with collection CONPAO usage ADGCMS data on CONPAO defining files description of ADGCMS gateways CONPAO preferred ADGCMS gateways to VTAM CONPAO processing routine to receive control mode name table CONPAO during I/O operation to GCS CONPAO **ADGCMS** description of CONPAO AUXPROC option of FILEDEF command diagnosing problems CONPAO ADGCMS, CMSREF collecting error information CONPAO AUXxxxx file type usage in CMS CMSUG dumps CONPAO AVG function of SOL APGDE system trace data CONPAO AVLOAD EXEC SERV trapping entries (CPTRAP) CONPAO used to install V = R option INST viewing CPTRAP data CONPAO avoiding IUCV external interrupts SFPROG directory AVS virtual machine ACCT option CONPAO accounting file CONPAO AUTOLOG option CONPAO accounting records COMSRV option CONPAO conversation CONPAO **ECMODE** option **CONPAO** generating CONPAO gateway manager CONPAO **IUCV ALLOW CONPAO** initialization CONPAO termination CONPAO **IUCV \*IDENT GATEANY** types of CONPAO **GATEWAY CONPAO** AGWACI ASSEMBLE CONPAO MAXCONN option CONPAO AGWPROF GCS CONPAO modifying CONPAO AGWTUN ASSEMBLE CONPAO sample CONPAO external tracing CONPAO application starting CONPAO gateways changing See also gateways contention winner polarity CONPAO deactivating CONPAO session limit CONPAO defining CONPAO commands CONPAO defining maximum number of sessions AGW ACTIVATE GATEWAY for CONPAO **CONPAO** defining to VTAM CONPAO AGW CNOS CONPAO getting status on AVS CONPAO AGW DEACTIVE CONV CONPAO identifying to VTAM CONPAO AGW DEACTIVE GATEWAY installation CONPAO CONPAO installing CONPAO AGW QUERY CONPAO internal tracing CONPAO AGW QUIESCE CONPAO invoking CONPAO AGW SET ETRACE CONPAO **IUCV \*IDENT CONPAO** AGW SET ITRACE CONPAO performance CONPAO AGW START CONPAO AUTHEXIT parameter on APPL statement CONPAO

tuning parameters CONPAO

profile for CONPAO	defining gateways CONGREF
PROFILE GCS CONPAO	diagnosing dumps DIAG
querying (AGW QUERY) CONPAO	directories created for SFSAD
quiescing CONPAO	displaying dump information DIAG
session limits CONPAO	dump option of IPCSPRT command
setting	IPCSREF
storage for internal trace table	dumps DIAG
CONPAO	creating <b>DIAG</b>
up CONPAO	diagnosing DIAG
up profiles CONPAO	displaying information DIAG
starting CONPAO	processing DIAG
status on CONPAO	error messages SYSMSG
stopping	formatting and displaying trace records
conversations CONPAO	DIAG
disruptively CONPAO	gateways
non-disruptively CONPAO	See also gateways
tuning parameters CONPAO	authorization to connect to CONPAO
accounting CONPAO	authorization to manage CONPAO
pause parameters CONPAO	control statements for CONPAO
problem dumps CONPAO	defining maximum number of sessions
transformation control CONPAO	for CONPAO
AVS (APPC/VM VTAM Support)	defining to VTAM CONPAO
CMSMIG, GIM, SFSAD	description CONPAO
abends DIAG	identifying multiple gateways CONPAO
abend codes SYSMSG	identifying to collection CONPAO
action for SYSMSG	overview CONPAO
codes SYSMSG	revoking collection identification
problem determination SYSMSG	CONPAO
reason for SYSMSG	general description INST
user action SYSMSG	installation CONPAO
accounting file CONPAO	loading INST
accounting module INST	LOADLIB CONPAO
AGW SET ETRACE command DIAG	load map IPCSREF
AGW SET ITRACE command DIAG	message repositories CONPAO
AGWACI ASSEMBLE CONPAO	modifying AGWACI ASSEMBLE file
AGWCMR message repository CONPAO	INST
AGWCMR REPOS CONPAO	modifying AGWTUN ASSEMBLE file
AGWCMRB message repository CONPAO	INST
AGWCMRB REPOS CONPAO	module address, displaying IPCSREF
AGWPROF GCS CONPAO	module name, displaying IPCSREF
AGWTUN ASSEMBLE file CONPAO	overview of CONPAO
block addresses, displaying IPCSREF	performance tuning CONPAO
communicating with collection CONPAO	planning considerations INST
connectivity GIM	processing dumps DIAG
creating dumps DIAG	profile for CONPAO
debugging DIAG	QUERY CPTRAP command DIAG
	setting up CONPAO

support INTRO, PLNGDE System Network Architecture (SNA) GIM setting external tracing DIAG setting internal tracing DIAG tuning module INST tuning parameters CONPAO

using system trace data to diagnose problems DIAG virtual machine See AVS virtual machine AVSVM PLNGDE a..., variable described GENCMD, SYSCMD

В	control mindisk vernication during SFSAD
	creating SFSAD
B border command PRIMER	determining frequency of SFSAD
back tab key PRIMER	during shutdown SFSAD
backing up	FILESERV BACKUP command SFSAD
a file PRIMER	recovering from failures of SFSAD
a file pool SFSAD	required by dedicated maintenance mode
the control data SFSAD	commands SFSAD
the user data SFSAD	special considerations for DASD SFSAD
BACKSPAC command ADMIN, INTRO	special considerations for tape SFSAD
described SYSCMD	start-up parameters related to SFSAD
operands	started automatically SFSAD
EOF SYSCMD	temporary file used during SFSAD
file SYSCMD	using BACKUP operator command SFSAD
lprt SYSCMD	using FILESERV BACKUP SFSAD
pages SYSCMD	of user storage groups
raddr SYSCMD	comparison with control data backup SFSAD
1 SYSCMD	contents of SFSAD
responses SYSCMD	creating SFSAD
summary OPGDE, SYSCMD	FILEPOOL BACKUP command SFSAD
syntax diagram, class D SYSCMD	FILEPOOL CLEANUP command SFSAD
usage notes SYSCMD	FILEPOOL RESTORE command SFSAD
backspace character affected by SET IMAGE XEDIT	running concurrently SFSAD
backspace characters in typewriter mode XEDITUG	saving outdated copies of SFSAD
BACKSPACE command APGDE	to another file pool SFSAD
BACKSPACE key CMSLOT	user access during SFSAD
backup and recovery of MSS volumes	remote SFSAD
See Diagnosis Reference	started automatically SFSAD
BACKUP ddname SFSAD	using FILESERV BACKUP SFSAD
backup directories ADMIN	using the BACKUP operator command SFSAD
backup files	backup/restore procedure
defining or changing SFSAD	VM under VM RGOS
determining current setting of SFSAD	VSE RGOS
disk and tape considerations for SFSAD	BACKWARD command APGDE, XEDITUG
in another file pool SFSAD	backward
obsolete SFSAD	LOCATE CMSLOT, PRIMER
specifying during generation SFSAD	scrolling in XEDIT PRIMER
staging to tape SFSAD	search XEDIT, XEDITUG
BACKUP operator command SFSAD	BACKWARD subcommand of XEDIT command
backup procedure using DDR INST	APGDE, XEDIT
backup program, coding your own SFSAD	assigned to a PF key XEDIT
BACKUP start-up parameter SFSAD	BAL instruction ADGCMS
switching from SFSAD	conversion considerations ADGCMS, CMSMIG
switching to SFSAD	using AMODESW as a replacement CMSMIG
backups	BALR instruction ADGCMS
at shutdown SFSAD	conversion considerations ADGCMS, CMSMIG
concurrent SFSAD	using AMODESW as a replacement CMSMIG
of the control data	BALRSAVE DIAG
advantage of SFSAD	BAS instruction ADGCMS
at shutdown SFSAD	BASE control record, ZAP and ZAPTEXT service
BACKUP operator command SFSAD	programs format SEBV
comparison with user data backup SFSAD	format SERV function SERV
contents of SFSAD	
	parameter SERV

base file ADRCMS, CMSREF, INTRO	purging CMSUG, OPGDE
definition of CMSREF	reordering CMSUG, OPGDE
description CMSUG	restarting <b>OPGDE</b>
displaying specified base file information via	machine ADRCMS
LISTFILE CMSREF	processing in CMS CMSUG, INTRO
erasing CMSUG	processing, VM batch subsystem INTRO
base register GCSREF	virtual machine
base security SFSAD	starting <b>OPGDE</b>
base system (VM/SP) GIM	stopping OPGDE
BASEADD operand	BATLIMIT macro ADRCMS
of RDEVICE macro PLNGDE	BATLSECT DSECT
BASEDATE option of DATE function SPIREF	mapping ADRCMS
BASEFT option	bbcchh, variable
of EXTRACT XEDIT	described GENCMD, SYSCMD
of QUERY XEDIT	BBOX (boundary box) usage DIAG
BASIC PRIMER	BC mode
BASIC command	definition ADMIN, SYSMSG
to compile a program CMSLOT	BCD characters, converting to EBCDIC CMSREE
to create a program CMSLOT	BD code, exception log messages SERV
basic control mode	BDAM
definition ADMIN, SYSMSG	files, specifying in CMS CMSREF
basic conversation CONGREF, SAACOM	restrictions on ADGCMS
BASIC conversation type CONGREF	support of ADGCMS
BASICRUN command CMSLOT, PRIMER	BLD tag, product parameter file SERV
BASIC, IBM INTRO	BEGIN command CMSUG, DIAG, GENCMD,
BASR instruction ADGCMS	PRIMER, RGOS, TERMREF
BASSM instruction ADGCMS, CMSMIG	described GENCMD
batch facility	operand
controlling OPGDE	hexloc GENCMD
control cards CMSUG	responses GENCMD
controlling spool files CMSUG	usage notes GENCMD
description CMSUG	used after disconnecting <b>GENCMD</b>
housekeeping done after executing job CMSUG	begin conversation
how jobs are processed CMSUG	CMALLC (Allocate) SAACOM
ID card CMSUG	example flow SAACOM
invoking OPGDE	program start-up <b>SAACOM</b>
jobs for non-CMS users CMSUG	simple example SAACOM
userid OPGDE	BEGIN DECLARE SECTION statement in
using OPGDE	COBOL and SQL APGDE
using EXEC procedure to submit jobs CMSUG	beginning
/JOB CMSUG	to use XEDIT CMSLOT, PRIMER
/SET CMSUG	virtual machine execution CMSUG
/* CMSUG	your terminal session CMSUG
batch job statement	BEG3800 operand
ACCESS INTRO	of START command SYSCMD
LINK INTRO	BETWEEN predicate of SQL APGDE
batch	bimodal addressing
jobs	addressing mode (AMODE)
for CMS batch facility CMSUG	definition of ADGCMS, CMSMIG
for non-CMS users CMSUG	setting ADGCMS, CMSMIG

conventions for 31-bit programs ADGCMS,	block reads ADGCMS
CMSMIG	block size
definition of ADGCMS, CMSMIG	of control data backup files SFSAD
residency mode (RMODE)	of log minidisks SFSAD
definition of ADGCMS, CMSMIG	of storage group minidisks SFSAD
setting ADGCMS, CMSMIG	*BLOCKIO SFPROG
bimodal CMS program interface ADRCMS	BLOCKSIZE option of FILEDEF command
binary synchronous (BSC) lines CONPAO	APGDE
CLUSTER macro PLNGDE	blocksize, specifying with FILEDEF command
coding DMKRIO PLNGDE	CMSREF
bisynchronous drivers (BSC) IPCSREF	blocks, 4K
BIT operand	changing a user's allocation of SFSAD
of SET command SYSCMD	deleting a users allocation of SFSAD
BITAND function SPIREF	giving users allocations of SFSAD
BITOR function SPIREF	maximum number per file pool SFSAD
bits checked using DATATYPE SPIREF	maximum number per file space SFSAD
bits for licensed program identification SFPROG	
• •	block, FBA device SFPROG
BITXOR function SPIREF	BLP (bypass label processing), tapes CMSUG
blank characters	BLP operand of FILEDEF command CMSREF
in targets, significance of XEDITUG	BMX operand
removed by COMPRESS XEDIT	of DEFINE command GENCMD
to separate file lines during string target search	BMX directory option CONPAO
XEDIT	for MVS guest RGOS
blanks	for VM under VM RGOS
adjacent to special character SPIREF	for VSE RGOS
as concatenation operator SPIREF, SPIUG	BNDRY = operand
as delimiters CMSREF, GENCMD, SYSCMD	CMSSTOR OBTAIN ADRCMS
between words, determining significance of	BNF syntax EXEC2
XEDIT	BODY statement in ISPF panels APGDE
removed SPIUG	bold type PRIMER
removal with STRIP function SPIREF	books copied from DOS/VSE source statement
BLDL macro GCSREF	libraries ADGCMS
description GCSREF	boolean operations SPIREF
list address parameter GCSREF	border commands
0 parameter GCSREF	B (backward) PRIMER
BLIP TERMREF	D (drop) PRIMER
BLIP processing CMSMIG	F (forward) PRIMER
BLKSIZE option	L (left) PRIMER
of FILEDEF command CMSREF	M (move) PRIMER
of FORMAT command CMSREF	P (pop) PRIMER
block address	R (right) PRIMER
AVS, displaying IPCSREF	scrolling forward and backward CMSUG
used to load a system GENCMD	scrolling right and left CMSUG
block I/O files SFSAD	summary CMSREF
block of lines	BOTH operand
copying XEDIT, XEDITUG	of LOCATE subcommand IPCSREF
deleting XEDIT, XEDITUG	of PER command GENCMD
duplicating XEDIT, XEDITUG	of TRACE command GENCMD
excluding from display XEDIT	BOTTOM command APGDE, CMSLOT,
moving XEDIT, XEDITUG	PRIMER
shifting left XEDIT	bottom of program reached during execution
	SPIREF
shifting right XEDIT BLOCK option of FILEDEF command	
	bottom of range XEDIT
ADGCMS, APGDE, CMSREF	

BOTTOM subcommand of XEDIT command **XEDIT, XEDITUG** in typewriter mode XEDITUG practice exercise using XEDITUG **BOTTOM** subcommand of IPCSSCAN command description IPCSREF example output IPCSREF format IPCSREF functional category IPCSREF messages IPCSREF response IPCSREF usage notes IPCSREF boundaries, program ADGCMS boundary alignment of statements in assembler program CMSREF boundary box (BBOX) usage DIAG BPAM, support of ADGCMS braces, use of GENCMD, SYSCMD brackets, use of GENCMD, SYSCMD branch entry Freemain (type X'0B') entry DIAG branch entry Getmain (type X'0A') entry DIAG BRANCH event type of PER command GENCMD **BRANCH** operand of TRACE command GENCMD branch prompt IPCSREF branch traceback table DIAG branches tracing **GENCMD** branching to another program ADRCMS branch, direct CMSMIG See also direct branch linkage BREAK key CMSLOT **BREAKIN** operand of TERMINAL command GENCMD breakpoint setting DIAG breakpoints APGDE **BRIEF HELP CMSUG** described CMSREF obtaining using HELP command CMSREF obtaining using MOREHELP command **CMSREF** BRKKEY command RGOS **BRKKEY** operand of EXTRACT XEDIT of QUERY XEDIT of SET XEDIT of TERMINAL command GENCMD description SAACOM

browse option in ISPF APGDE BROWSE service of ISPF APGDE BSAM/QSAM support of ADGCMS BSC (binary synchronous) lines CONPAO CLUSTER macro PLNGDE coding DMKRIO PLNGDE BSC (bisynchronous drivers) IPCSREF BSIZE = operand FSCB macro ADRCMS FSOPEN macro ADRCMS FSREAD macro ADRCMS FSWRITE macro ADRCMS BSM instruction ADGCMS, CMSMIG buffers SPIUG ACF/VTAM V3 for VSE/SP RGOS application CONGREF control CONGREF declaring See DCLBFR function of IUCV in catalog routines, retrieving SFSAD interactive pageable storage set SYSCMD use by APPC CONGREF formats for DMSQLIMA routine SFSAD of DMSRDCAT routine SFSAD forms control ADMIN images for the 3203 Printer, UCC ADMIN for the 3211 Printer, UCSB (Universal Character Set Buffer) ADMIN print ADMIN retrieving See RTRVBFR function of IUCV size controlling for assembler CMSREF for VSAM programs CMSREF spool **OPGDE** terminal input INTRO VM/VTAM RGOS **BUFFER** parameter CONNECT function CONGREF of DCLBFR CONGREF of RECEIVE CONGREF of SENDDATA CONGREF buffering of data

broken connection SFSAD

example flow SAACOM

BUFFER = operand	GCSLOAD EXEC SERV
CONSOLE OPEN macro ADRCMS	TSAF SERV
CONSOLE QUERY macro ADRCMS	used in GENTSAF EXEC procedure SERV
CONSOLE READ macro ADRCMS	used in PRELOAD command procedure SERV
CONSOLE WRITE macro ADRCMS	used in VMFBLD EXEC procedure SERV
FSCB macro ADRCMS	used in VMFLOAD command procedure
FSOPEN macro ADRCMS	CP loadlist requirements SERV
FSREAD macro ADRCMS	format of loadlist entry SERV
FSWRITE macro ADRCMS	function SERV
SCAN macro ADRCMS	VRLOAD EXEC SERV
BUFFS operand	building
of MONITOR command SYSCMD	CMS LOADLIB SERV
BUFFSIZ operand	CMS module SERV
of DEFNUC macro PLNGDE, SFSAD	CMS nucleus
BUFLEN parameter	existing VM system procedure INST
CONNECT function CONGREF	installing new system national language INST
of RECEIVE CONGREF	Starter System procedure INST
of SENDDATA CONGREF	using VMFBLD SERV
BUFLIST parameter	using VMFLOAD SERV
of RECEIVE CONGREF	CP nucleus
of SENDDATA CONGREF	existing VM system procedure INST
BUFSIZE option of ASSEMBLE command	installing new system national language INST
CMSREF	Starter System procedure INST
BUFSP option	using VMFBLD SERV
in CMS/DOS ADGCMS	using VMFLOAD SERV
of the DLBL command ADGCMS, CMSREF	definition INTRO
BUFTIME operand	GCS nucleus
of SET command SYSCMD	
	existing VM system procedure INST
build exception log (\$VMFBLD \$ERRLOG) example SERV	installing new system national language INST
	Starter System procedure INST
general description SERV	using VMFBLD SERV
message codes SERV build list	using VMFLOAD SERV
	process CONPAO
APLOAD EXEC SERV	PUT/COR procedure SERV
ATSLOAD EXEC SERV	RUNTSAF module SERV
AVLOAD EXEC SERV	system assembler
CMS	ASMGEND EXEC SERV
CMSLOAD EXEC SERV	existing VM system procedure INST
DMS3XJ EXEC SERV	Starter System procedure INST
DMS3XK EXEC SERV	system file pool
DMS5JA EXEC SERV	existing VM system procedure INST
DMS5JB EXEC SERV	Starter System procedure INST
DMS5JC EXEC SERV	user file pool
DMS5JD EXEC SERV	existing VM system procedure INST
DMS5JG EXEC SERV	Starter System procedure INST
SFS load modules SERV	building a new nucleus
CMSLOAD EXEC SERV	for VM under VM RGOS
СР	for VSE RGOS
APLOAD EXEC SERV	built-in functions SPIREF, SPIUG
AVLOAD EXEC SERV	ABBREV SPIREF
CPLOAD EXEC SERV	ABS SPIREF
requirements SERV	ADDRESS SPIREF
VRLOAD EXEC SERV	ARG SPIREF
CPLOAD EXEC SERV	BITAND SPIREF
GCS SERV	BITOR SPIREF

BITXOR SPIREF CENTER SPIREF CENTRE SPIREF COMPARE SPIREF COPIES SPIREF C2D SPIREF C2X SPIREF DATATYPE SPIREF DATE SPIREF DELSTR SPIREF DELWORD SPIREF DIGITS SPIREF D2C SPIREF D2X SPIREF ERRORTEXT SPIREF **EXTERNALS SPIREF** FIND SPIREF FORM SPIREF FORMAT SPIREF **FUZZ SPIREF** INDEX SPIREF INSERT SPIREF invoking SPIREF JUSTIFY SPIREF LASTPOS SPIREF LEFT SPIREF LENGTH SPIREF LINESIZE SPIREF MAX SPIREF MIN SPIREF **OVERLAY SPIREF** POS SPIREF QUEUED SPIREF RANDOM SPIREF REVERSE SPIREF RIGHT SPIREF SIGN SPIREF SOURCELINE SPIREF SPACE SPIREF STRIP SPIREF SUBSTR SPIREF SUBWORD SPIREF

SYMBOL SPIREF TIME SPIREF TRACE SPIREF TRANSLATE SPIREF TRUNC SPIREF USERID SPIREF VALUE SPIREF VERIFY SPIREF WORD SPIREF WORDINDEX SPIREF WORDLENGTH SPIREF WORDPOS SPIREF WORDS SPIREF XRANGE SPIREF X2C SPIREF X2D SPIREF bulletin board, creating CMSUG business professional product APL2 INTRO SQL/DS with QMF INTRO BY expression SPIUG BY phrase of DO instruction SPIREF bypass label processing, tapes CMSUG bypassing profile macro XEDIT, XEDITUG byte alignment on terminal output DIAG, GENCMD BYTE operand of SET command SYSCMD bytecount operand of DCP command SYSCMD of DMCP command SYSCMD of DUMP command GENCMD of NETWORK command SYSCMD of VMDUMP command GENCMD bytecount, variable described GENCMD, SYSCMD BYTES = operand **CMSSTOR OBTAIN ADRCMS** CMSSTOR RELEASE ADRCMS b.books RGOS

CTC RGOS

C	CACHE = operand
	FSCB macro ADRCMS
Clarguage	FSOPEN macro ADRCMS
C language	caching
example call to CSL routine ADRCMS	definition ADMIN, SYSMSG
example program calling DMSERP ADRCMS	minidisk files ADGCMS
C prefix subcommand of XEDIT command	SFS files ADGCMS
APGDE, PRIMER, XEDIT, XEDITUG	storage, candidates for ADMIN
C subcommand of IPCSSCAN command	3880 and 3990 models ADMIN
description IPCSREF	using the CACHE command SYSCMD
example output IPCSREF	CAI (channel available interrupt)
format IPCSREF	definition ADMIN, SYSMSG
functional category IPCSREF	calculating storage available in your virtual machine
messages IPCSREF	ADGCMS
response IPCSREF	CALL command ADGCMS
usage note IPCSREF	CALL instruction SPIREF, SPIUG
cache SFSAD	CALL macro GCSREF
block ADMIN, SYSMSG	description GCSREF
definition ADMIN, INTRO, SYSMSG	entry point name parameter GCSREF
owner ADMIN, SYSMSG	execute format GCSREF
establishing ADMIN	id parameter GCSREF
release request SFSAD	list format GCSREF
storage, candidates for ADMIN	mf parameter GCSREF
3880 and 3990 models ADMIN	parameter address parameter GCSREF
subsystems for the 3880 Model 13 and Model 23	vl parameter GCSREF
when to use <b>ADMIN</b>	CALL subcommand of TESTCOB command
3880 Storage Control ADMIN	APGDE
CACHE command ADMIN	callable services library (CSL)
described SYSCMD	See CSL (callable services library)
operands	callable services library (CSL) routines
ALL SYSCMD	See CSL (callable services library) routines
OFF SYSCMD	caller ID in tape label processing CMSUG
ON SYSCMD	CALLER (keyword definition) IPCSREF
OWN ADMIN, SYSCMD	calling
QUERY ADMIN, SYSCMD	a REXX EXEC ADRCMS
raddr SYSCMD	general format ADRCMS
SUBSYS SYSCMD	multiple variables in an argument string
userid SYSCMD	ADRCMS
responses SYSCMD	use for invoking CP or CMS commands
summary OPGDE, SYSCMD	ADRCMS
syntax diagram, Class B SYSCMD	use for issuing FILEDEF command
usage notes SYSCMD	ADRCMS
CACHE operand	IBM for assistance, data needed DIAG
of QUERY command ADMIN	programs ADRCMS
CACHE parameter	subroutines ADRCMS, EXEC2
DMSOPEN (SFS Open) ADRCMS	the parsing facility from an EXEC CMSREF
cache-line	calls
definition ADMIN, SYSMSG	advanced function
cached	
DASD (direct access storage device) ADMIN	description SAACOM
devices	examples SAACOM
general paging PLNGDE	list SAACOM
page migration PLNGDE	CPI-Communications SAACOM
primary paging PLNGDE	description SAACOM
	naming conventions SAACOM

starter-set card separator description SAACOM spool punch output OPGDE examples SAACOM list SAACOM as input to CMS batch facility CMSUG CALLTYP = operand /\* as end-of-file indicator CMSUG carriage control characters ADGCMS CMSCALL macro ADRCMS CANCEL command ADGCMS, XEDITUG case APGDE CANCEL function of VMCF SFPROG changing XEDITUG **CANCEL KEY** restrictions ignoring difference in CMSLOT for 3215 terminal console **OPGDE** ignoring difference in target search XEDIT mixed CMSLOT CANCEL macro XEDIT of EXEC files CMSLOT CANCEL option of Script files CMSLOT of NOTE command CMSREF of RETURN command APGDE respecting difference in target search XEDIT setting CMSLOT, PRIMER, XEDIT CANCEL parameter of ISPF APGDE CANCEL raddr operand specifying XEDITUG of SPTAPE command SYSCMD translating to lowercase XEDIT CANCEL signaling TERMREF translating to uppercase XEDIT CANCEL subcommand of XEDIT command translation EXEC2 CASE command of DMS/CMS APGDE **APGDE** cancelling **CASE** option a note CMSLOT of EXTRACT XEDIT a timer GCSREF of QUERY XEDIT changes during editing session CMSUG of SET CMSLOT, PRIMER, XEDIT DLBL definitions ADGCMS of TRANSFER XEDIT immediate commands CMSREF CAT option ADGCMS terminal output TERMREF of DLBL command CMSREF example of use CMSREF candidates for caching storage ADMIN canonical order specified by SET IMAGE XEDIT use in CMS/DOS CMSREF capacity of device when formatted ADMIN, of the DLBL command ADGCMS **SFPROG** catalogs capacity planning SFSAD clearing ADGCMS capital letters, typing PRIMER defining in CMS/DOS ADGCMS CAPPEND XEDITUG identifying in CMS/DOS ADGCMS in typewriter mode XEDITUG IJSUC ddname ADGCMS CAPPEND macro XEDIT indexes SFSAD example of **XEDIT** job ADGCMS with DBCS strings XEDIT master ADGCMS card input minidisks for Format/Allocate Program ADMIN determining allocations for SFSAD spooled OPGDE minimum recommended size of SFSAD to Format/Allocate program ADMIN, SFPROG placement of SFSAD CARD option of EXECIO command CMSREF passwords ADGCMS card punch sharing ADGCMS used to send jobs to CMS batch facility CMSUG storage group card reader adding space to SFSAD restriction on use in job for CMS batch facility description of SFSAD determining when to reorganize SFSAD spooling punch or printer files to CMSUG displaying information about SFSAD listing the contents of SFSAD

monitoring logical space in SFSAD	cc, variable
monitoring physical storage in SFSAD	described GENCMD, SYSCMD
placement of minidisks within SFSAD	CD option of DSERV command CMSREF
recording of authorizations within SFSAD	CDELETE subcommand of XEDIT command
reorganizing SFSAD	CMSLOT, XEDIT, XEDITUG
setting logical size of SFSAD	example of XEDIT
user ADGCMS	in typewriter mode XEDITUG
user in CMS/DOS ADGCMS	with DBCS strings XEDIT
verifying a structure ADGCMS	CE function type SYSCMD
VSAM ADGCMS	CENTER command of DMS/CMS APGDE
VSAM, verifying structure of CMSREF	CENTER function SPIREF
catalogued procedures in OS/MVS equivalent in	centering a string
CMS ADGCMS	using CENTER function SPIREF
CATBUFFERS start-up parameter	using CENTRE function SPIREF
description of SFSAD	central site, DDP defined INTRO
recommend setting for, during file pool	description INTRO
regeneration SFSAD	CENTRE function SPIREF
recommended setting for FILESERV REORG	CENTURY option of DATE function SPIREF
SFSAD	CETI group, dedicating links for CONPAO
setting for, when restoring control data SFSAD	CFILEFCB operand
setting for, when restoring storage groups SFSAD	of START command SYSCMD
CATCHECK command	CFIRST subcommand of XEDIT command
described CMSREF	CMSLOT, XEDIT, XEDITUG
verifying a catalog structure ADGCMS	affected by zone XEDIT
causing breaks in text CMSUG	example of XEDIT
CAW operand	in typewriter mode XEDITUG
of DISPLAY command GENCMD	with DBCS strings XEDIT
CAW (channel address word)	CHAIN subcommand of IPCSSCAN command
definition of DIAG	description IPCSREF
displaying GENCMD	example output IPCSREF
CC option	format IPCSREF
of EXECIO command CMSREF	functional category IPCSREF
of NOTE command CMSLOT, CMSREF,	messages IPCSREF
PRIMER	operands IPCSREF
of PRINT command CMSREF	responses IPCSREF
CC prefix command PRIMER	usage notes IPCSREF
CCH (channel check handler) <b>OPGDE</b>	chaining save areas GCSREF
cchhr, variable	chaining structure
described GENCMD, SYSCMD	ALOCBLOK ADMIN
*CCS SFPROG	SYSPLIST ADMIN
CCS (Console Communication Service) GCSREF,	change
INTRO	global CMSLOT
example of coding an SNA controller PLNGDE	throughout file CMSLOT
ccuu, variable	CHANGE XEDITUG
described GENCMD, SYSCMD	batch machine output INTRO
CCW operand	example of use INTRO
of TRACE command GENCMD	in typewriter mode <b>XEDITUG</b>
CCW testing	option
controlling GENCMD	of DLBL command CMSREF
CCW (channel command word) ADRCMS	of FILEDEF command CMSREF
building using CONSOLE EXCP macro ADRCMS	
building using CONSOLE macro ADRCMS  building using CONSOLE macro ADRCMS	practice exercise using XEDITUG
diagnostic aids PLNGDE	with absolute line number as target <b>XEDITUG</b>
mapping DIAG	with absolute line number as target AEDITOG
3880 ADMIN	
JUU ADMINI	

CHANGE command ADMIN, CMSLOT, CMSUG, INTRO, PRIMER described class D SYSCMD class G GENCMD operands ALL GENCMD, SYSCMD CHARS GENCMD, SYSCMD CLASS GENCMD, SYSCMD COPY SYSCMD COPY[\*]nnn GENCMD **DEST SYSCMD** dest1 SYSCMD dest2 SYSCMD DIST SYSCMD DIST distcode GENCMD distcode SYSCMD dsname SYSCMD FCB GENCMD, SYSCMD FLASH SYSCMD FLASH name GENCMD FORM SYSCMD FORM form GENCMD form1 SYSCMD form2 SYSCMD HOld GENCMD, SYSCMD MODIFY SYSCMD MODIFY named GENCMD NAME GENCMD, SYSCMD NOHold GENCMD, SYSCMD NOSYS SYSCMD PRINTER GENCMD, SYSCMD PUNCH GENCMD, SYSCMD READER GENCMD, SYSCMD spoolid GENCMD, SYSCMD SYS SYSCMD SYSTEM SYSCMD UNCONV GENCMD, SYSCMD userid SYSCMD \* SYSCMD responses GENCMD, SYSCMD summary OPGDE, SYSCMD syntax diagram, class D SYSCMD usage notes GENCMD, SYSCMD CHANGE subcommand of XEDIT command APGDE, XEDIT examples of XEDIT used in selective change XEDIT with DBCS strings XEDIT

changes, getting rid of PRIMER changing a character XEDIT example of XEDIT a file **PRIMER** a file identifier XEDIT a file mode XEDIT a file name XEDIT a file type XEDIT a logical operator SFPROG LGLOPR action routine SFPROG LGLOPR command SFPROG a membername XEDIT characteristics of spool files CMSUG characteristics of unit record devices CMSUG color settings XEDIT commands ADMIN contention winner polarity CONPAO contents of real storage SYSCMD control registers GENCMD data CMSLOT globally XEDIT, XEDITUG globally, in typewriter mode XEDITUG selectively XEDIT, XEDITUG selectively, in typewriter mode XEDITUG using CHANGE XEDIT, XEDITUG using CHANGE, in typewriter mode XEDITUG using COVERLAY XEDIT, XEDITUG using CREPLACE XEDIT, XEDITUG using OVERLAY XEDIT using SCHANGE XEDIT data flow direction by receiving program SAACOM by sending program SAACOM data position XEDITUG definition of a character XEDITUG in typewriter mode XEDITUG destination of commands SPIREF file mode numbers CMSUG filename of spool file GENCMD floating-point registers GENCMD gateways See gateways general registers GENCMD interval values MIH (missing interrupt handler) ADMIN links See links, TSAF

changed lines, displaying XEDIT

location of windows CMSREF

Refer to the foldout page at the back of this book for a chart of abbreviations and their corresponding manuals.

logical line editing symbols <b>GENCMD</b> ,	model dependent functions
SYSCMD	restrictions PLNGDE
order of spool files SYSCMD	operating mode
output representation of a character CMSUG	determining current setting GENCMD
privilege classes ADMIN	for QUERY VIRTUAL CHANNELS
program status word (PSW) GENCMD	command GENCMD
screen layout	program
using SCALE XEDIT	terminating SYSCMD
using SET CMDLINE XEDIT	restrictions PLNGDE
using SET COLOR XEDIT	set switching RGOS
using SET CURLINE XEDIT	virtual block multiplexer ADMIN
using SET MSGLINE XEDIT	channel address word (CAW)
using SET NUMBER XEDIT	definition of DIAG
using SET PREFIX XEDIT	displaying GENCMD
using SET SCALE XEDIT	CHANNEL c operand
using SET SCREEN XEDIT	of DETACH command GENCMD
using SET TABLINE XEDIT	channel check DIAG
using SET TOFEOF XEDIT	channel check handler (CCH) <b>OPGDE</b>
using TABL XEDIT	error recording process OPGDE
session limit CONPAO	errors, marking
SET SRM PGFULL parameters ADMIN	degrade OPGDE
SET SRM PGMTLIM parameters ADMIN	hard OPGDE
spool file	passed OPGDE
attributes GENCMD	soft OPGDE
characteristics GENCMD	channel command word (CCW) ADMIN,
class GENCMD	ADRCMS, PLNGDE
spoolid GENCMD	building using CONSOLE EXCP macro
storage keys ADMIN	ADRCMS
tab settings XEDIT, XEDITUG	building using CONSOLE macro ADRCMS
in typewriter mode XEDITUG	diagnostic aids PLNGDE
the file pool ID SFSAD	mapping DIAG
the HELP facility CMSUG	3880 ADMIN
the mode of a member XEDIT	CHANNEL operand
the name of a file <b>PRIMER</b>	dedicated channels GENCMD
the output file for security auditing SFSAD	of ATTACH command SYSCMD
the screen layout XEDITUG	of DETACH command GENCMD, SYSCMD
time interval in DMKSYS SYSCMD	channel programs SECUR
virtual storage locations GENCMD	definition of <b>DIAG</b>
channel	modification SFPROG
attaching SYSCMD	support, real SFPROG
alternate RCTLUNIT macro PLNGDE	writing your own ADGCMS
attaching SYSCMD	channel status word (CSW)
Clear Channel operations (CLRCH)	definition of <b>DIAG</b>
monitored in CP internal trace table	displaying GENCMD
SYSCMD	information contained in <b>DIAG</b>
command words	problems helped by <b>DIAG</b>
3880 ADMIN	channel-to-channel adapter (CTCA) CONPAO
1 / 1' CYCCATA	connecting virtual GENCMD
_	definition ADMIN, SYSMSG
errors RCTLUNIT macro PLNGDE	driver IPCSREF
improving use ADMIN	restrictions PLNGDE
index table	
	CHANNELS operand of DEFINE command GENCMD
generating PLNGDE	
I/O queued <b>DIAG</b>	of QUERY VIRTUAL command GENCMD

CHAP macro GCSREF description GCSREF priority parameter GCSREF s parameter GCSREF task id parameter GCSREF CHAR data type EXEC2 CHAR data type in SQL COBOL APGDE FORTRAN APGDE character TERMREF arrangement tables ADMIN 3800 printer ADMIN carriage control ADGCMS comparing SPIUG conversion of SPIUG conversion to APL XEDIT delete using CDELETE XEDIT, XEDITUG deleting from line GENCMD, SYSCMD insert using CINSERT XEDIT, XEDITUG keys APGDE logical line editing TERMREF modification 3800 printer ADMIN nondisplayable, defining character used in place of XEDIT overlay using COVERLAY XEDIT, XEDITUG example of XEDIT position of a string SPIREF using INDEX SPIREF priority of SPIUG priority when comparing SPIUG removal with STRIP function SPIREF replace using CREPLACE XEDIT, XEDITUG set exceptions SAACOM sets SAACOM sets used in CMS CMSREF sorting SPIUG specifying in hexadecimal XEDIT strings SAACOM, SPIUG copying CMSREF to decimal conversion SPIREF to hexadecimal conversion SPIREF translation tables controlling GENCMD valid in CMS command lines CMSREF character set controlling APL GENCMD

CP command language GENCMD, SYSCMD loading XEDIT usage XEDIT 3800 printer modification OPGDE predefined OPGDE characteristics See conversation characteristics CHARDEL operand of TERMINAL command GENCMD CHARS name operand of SPOOL command GENCMD CHARS operand of CHANGE command GENCMD, SYSCMD of RDEVICE macro PLNGDE of START command SYSCMD char, variable described GENCMD, SYSCMD CHECK macro (BSAM) GCSREF decb address parameter GCSREF description GCSREF CHECK macro (VSAM) GCSREF description GCSREF rpl parameter GCSREF CHECK option of SQL APGDE checking data SPIUG for existence of directory ADRCMS for existence of file using DMSEXIFI CSL routine ADRCMS using FSSTATE macro ADRCMS for existence of file/directory ADRCMS free storage DIAG tape labels using TAPESL ADRCMS your spelling PRIMER checklists for specific problems for a virtual machine wait state DIAG for an abend in GCS DIAG for CMS abend DIAG for CP abend DIAG for CP wait state DIAG for incorrect or unexpected output DIAG checkpoint accounting record SFSAD cylinder number of cylinders required by device type **PLNGDE** 

Refer to the foldout page at the back of this book for a chart of abbreviations and their corresponding manuals.

TEXT GENCMD

start <b>OPGDE</b>	described GENCMD, OPGDE
data, calculating number of cylinders needed	summary of use <b>OPGDE</b>
PLNGDE	used to control a terminal session, summary of
data, defining cylinders PLNGDE	OPGDE
checkpointing CPTRAP DIAG	CLASS directory control statement ADMIN,
checkpoints SFSAD	INTRO, PLNGDE
accounting records generated for SFSAD	operand PLNGDE
CHTYPE operand	classes PLNGDE
of RCHANNEL macro PLNGDE	class G
CICSVM Load Map IPCSREF	described GENCMD, OPGDE
CICS/MVS SAACOM	CLASS operand
CICS/VM INTRO	of CHANGE command GENCMD, SYSCMD
CINSERT XEDITUG	of ORDER command GENCMD, SYSCMD
in typewriter mode XEDITUG	of PURGE command GENCMD, SYSCMD
CINSERT command CMSLOT	of QUERY command GENCMD, SYSCMD
CINSERT subcommand XEDIT	of RDEVICE macro PLNGDE
example of XEDIT	of SET command SYSCMD
with DBCS strings XEDIT	of SPOOL command CMSUG, GENCMD
CIPHER command SECUR	of SPTAPE command SYSCMD
ciphertext SECUR	of START command SYSCMD
circumventive service	of TRANSFER command GENCMD,
definition SERV	SYSCMD
patches SERV	CLASS OVERRIDE control statement INTRO
ZAPs SERV	class override file
	example ADMIN
CKAUX tag, product parameter file SERV	
CKD (count-key-data)	making class assignments effective ADMIN
definition ADMIN, SYSMSG devices	verifying that syntax is correct ADMIN
	classes
format for CP-owned ADMIN	class override file
CKREQ tag, product parameter file SERV	creating ADMIN
CKTXT tag, product parameter file SERV	CP command privilege CMSUG
class	of CP SPOOL files CMSUG
A monitor records ADMIN	privilege ADMIN
changing for spool file GENCMD	structure, tailoring ADMIN
device INTRO	types, models, and features of devices
eight monitor records ADMIN	(DIAGNOSE code X'24') SFPROG
five monitor records ADMIN	CLAST subcommand of XEDIT command
four monitor records ADMIN	XEDIT, XEDITUG
modifying virtual device spool GENCMD	example of XEDIT
one monitor records ADMIN	with DBCS strings XEDIT
override file	clause
alternate ADMIN	as labels SPIREF
privilege INTRO, SECUR	assignment SPIREF
privilege, for CP commands GENCMD,	continuation of SPIREF
OPGDE, SYSCMD	delimiter SPIUG
seven monitor records ADMIN	description of SPIREF, SPIUG
six monitor records ADMIN	null SPIREF, SPIUG
three monitor records ADMIN	separating SPIUG
two monitor records ADMIN	spanning more than one line SPIUG
zero monitor records ADMIN	cleanup functions for VSAM CMSUG
class Any	clear error recording cylinders SFPROG
a terminal session, summary of commands	clear function
used OPGDE	parameter description CONGREF
CP summarized OPGDE	return codes CONGREF

CLEAR key APGDE in typewriter mode XEDITUG used in selective change XEDIT in full-screen CMS CMSREF with DBCS strings XEDIT to remove prefix subcommands XEDITUG CLEAR operand clock indicator in full-screen CMS CMSUG of DLBL command CMSREF of FILEDEF command CMSREF on the CMS window PRIMER of IMMCMD command CMSREF setting OPGDE of INCLUDE command CMSREF uniprocessor application OPGDE of IPL command GENCMD synchronization OPGDE of LABELDEF command CMSREF time-of-day (TOD) of LOAD command CMSREF description OPGDE of SYSTEM command ADMIN, GENCMD (attached processor) **OPGDE** CLEAR VSCREEN command CMSUG clock comparator DIAG See also Diagnosis Reference description CMSREF pseudo timer format CMSREF messages CMSREF See Diagnosis Reference CLOSE command APGDE, CMSUG, GENCMD operands vname CMSREF batch machine output INTRO usage notes CMSREF described GENCMD CLEAR WINDOW command CMSUG operands description CMSREF CONSOLE GENCMD format CMSREF **DEST GENCMD** messages CMSREF DIST GENCMD distcode GENCMD operands wname CMSREF dsname **GENCMD** usage notes CMSREF FORM GENCMD HOLD GENCMD a stack CMSREF NAME GENCMD a window CMSREF. PRIMER NOHOLD GENCMD DLBL definitions ADGCMS PRINTER GENCMD effect on FILEDEF definitions ADGCMS PUNCH GENCMD FILEDEF definitions ADGCMS PURGE GENCMD interruptions from a virtual machine GENCMD READER GENCMD job catalogs in CMS/DOS ADGCMS vaddr **GENCMD** job catalogs in OS ADGCMS responses **GENCMD** minidisks SECUR usage notes GENCMD storage to zeros GENCMD CLOSE function of SPOOL system service T-disk space SECUR **SFPROG** the prefix area PRIMER CLOSE macro virtual storage GENCMD execute format GCSREF **CLOCATE** command list format GCSREF format CLOSE macro (BSAM/QSAM) GCSREF with column numbers CMSLOT dcb address parameter GCSREF with strings CMSLOT description GCSREF used with CDELETE CMSLOT mf address parameter GCSREF used with CINSERT CMSLOT CLOSE macro (VSAM) GCSREF CLOCATE subcommand of XEDIT command acb address parameter GCSREF

Refer to the foldout page at the back of this book for a chart of abbreviations and their corresponding manuals.

**XEDIT, XEDITUG** 

examples of **XEDIT** 

description GCSREF

type parameter GCSREF

CLOSE operand	CMCFM (Confirm) routine CONGREF
of ACNT command SYSCMD	call description SAACOM
of MONITOR command SYSCMD	example flow using SAACOM
of PRB command IPCSREF	CMCFMD (Confirmed) routine CONGREF
of SPOOL command GENCMD	call description SAACOM
CLOSED operand of STAT command IPCSREF	example flow using SAACOM
closing	CMD command, programmable operator
directory ADRCMS	SFPROG
file pool catalogs SFSAD	CMD option
files ADRCMS, CMSREF, GENCMD,	of ISPSTART command APGDE
SFSAD, SPIUG	of PER command DIAG, GENCMD
files in EXEC procedures ADRCMS	CMDBUF DIAG
spool files GENCMD	CMDCALL command EXEC2
TRACE output GENCMD	described CMSREF
virtual devices GENCMD	CMDEAL (Deallocate) routine CONGREF
CLR function (HNDIUCV macro)	call description SAACOM
parameter descriptions CONGREF	example flow using SAACOM
return codes CONGREF	CMDLINE option
CLR operand	of EXTRACT XEDIT
ABNEXIT macro ADRCMS	of QUERY XEDIT
HNDEXT macro ADRCMS	of SET XEDIT
HNDINT macro ADRCMS	of TRANSFER XEDIT
	CMDSI macro GCSREF
HNDIO macro ADRCMS	
HNDSVC macro ADRCMS	command name parameter GCSREF
IMMCMD macro ADRCMS	description GCSREF
CLRLIST = operand	error parameter GCSREF
HNDIO macro ADRCMS	execute format GCSREF
CLUSTER macro	fileblk parameter GCSREF
coding real I/O configuration PLNGDE	length parameter GCSREF
effect on addressing bisync terminals and	list address format GCSREF
printers PLNGDE	list format GCSREF
examples PLNGDE	mf parameter GCSREF
format PLNGDE	cmd, variable
label requirements PLNGDE	described GENCMD, SYSCMD
operands	CMECT (Extract_Conversation_Type) routine
CUTYPE PLNGDE	CONGREF, SAACOM
DIAL operand PLNGDE	CMEMN (Extract_Mode_Name) routine
GPOLL PLNGDE	CONGREF, SAACOM
LINE PLNGDE	CMEPLN (Extract_Partner_LU_Name) routine
CLUSTER operand	CONGREF, SAACOM
of RDEVICE macro PLNGDE	CMESL (Extract_Sync_Level) routine CONGREF,
clusters	SAACOM
defining ADGCMS	CMFLUS (Flush) routine CONGREF
deleting ADGCMS	call description SAACOM
suballocated ADGCMS	example flow using SAACOM
unique ADGCMS	CMINIT (Initialize Conversation) routine
CMACCP (Accept Conversation) routine	CONGREF
CONGREF	call description SAACOM
call description SAACOM	example flow using SAACOM
example flow using SAACOM	CMND (keyword definition) IPCSREF
CMALLC (Allocate) routine CONGREF	CMNDLINE (command line) DIAG
call description SAACOM	CMPTR (Prepare_to_Receive) routine CONGREF
example flow using SAACOM	call description SAACOM
	example flow using SAACOM

CMRCV (Receive) routine CONGREF call description SAACOM example flow using SAACOM CMRTS (Request\_to\_Send) routine CONGREF call description SAACOM example flow using SAACOM CMS assembler macros ABNEXIT macro creating abend exit routines ADGCMS deleting abend exit routines ADGCMS resetting abend exit routines ADGCMS AMODESW macro advantages of ADGCMS description of CMSMIG direct branch linkage ADGCMS examples ADGCMS general formats ADGCMS, CMSMIG overview of function ADGCMS APPLMSG macro CMSMIG displaying and retrieving messages ADGCMS CMSCALL macro advantages of ADGCMS call charts ADGCMS, CMSMIG CMSCALL call-type values ADGCMS comparison to SVC 202 CMSMIG creating subpools ADGCMS description of CMSMIG general formats ADGCMS obtaining free storage ADGCMS releasing free storage ADGCMS supervisor assisted linkage ADGCMS CMSDEV macro ADGCMS CMSIUCV macro CMSMIG CMSRET macro CMSMIG examples ADGCMS returning to a calling program ADGCMS **CMSSTOR** macro comparison to DMSFREE and DMSFRET **CMSMIG** general formats CMSMIG compatibility interface macros CMSMIG CONSOLE macro CMSMIG basic functions ADGCMS closing paths ADGCMS handling console interrupts ADGCMS modifying a path definition ADGCMS obtaining information about paths ADGCMS opening a path to a console ADGCMS overview ADGCMS reading from a screen ADGCMS

writing to a screen ADGCMS writing your own channel programs ADGCMS CSLENTRY macro CMSMIG CSLEXIT macro CMSMIG CSLGETP macro CMSMIG DMSABN macro forcing an abend ADGCMS DMSFREE macro CMSMIG comparison to CMSSTOR CMSMIG DMSFRES macro CMSMIG DMSFRET macro CMSMIG comparison to CMSSTOR CMSMIG **ENABLE** macro comparison to SSM instruction CMSMIG description of CMSMIG enabling and disabling external interrupts **ADGCMS** manipulating the PSW mask ADGCMS FSCB macro creating a file system control block **ADGCMS** modifying a file system control block **ADGCMS** FSCBD macro mapping a file system control block **ADGCMS** FSCLOSE macro closing files ADGCMS updating files ADGCMS **FSERASE** macro erasing files ADGCMS FSOPEN macro modifying a file system control block **ADGCMS** FSPOINT macro ADGCMS FSREAD macro CMSMIG creating a file system control block **ADGCMS** end-of-file checking ADGCMS modifying a file system control block **ADGCMS** usage examples ADGCMS FSSTATE macro CMSMIG FSWRITE macro CMSMIG creating a file system control block **ADGCMS** modifying a file system control block **ADGCMS** 

Refer to the foldout page at the back of this book for a chart of abbreviations and their corresponding manuals. usage examples ADGCMS

GETSID macro CMSMIG	deleting subcommands ADGCMS
HNDEXT macro CMSMIG	general formats ADGCMS
creating a default handler ADGCMS	querying subcommands ADGCMS
deleting a handler ADGCMS	SUBPOOL macro
handling specific interrupts, examples	creating subpools ADGCMS
ADGCMS	general formats ADGCMS, CMSMIG
overview ADGCMS	releasing free storage ADGCMS
HNDINT macro CMSMIG	System/370 compatibility considerations
HNDIO macro CMSMIG	ENABLE macro CMSMIG
defining handlers, considerations ADGCMS	using for I/O CMSMIG
defining handlers, conventions ADGCMS	WRTAPE macro CMSMIG
defining handlers, examples ADGCMS	370-XA toleration considerations
deleting an I/O interrupt handler ADGCMS	ENABLE macro CMSMIG
entry and exit linkage ADGCMS	CMS commands APGDE, OPGDE
overview ADGCMS	ACCESS ADGCMS
HNDIUCV macro CMSMIG	accessing SFS directories CMSMIG
HNDSVC macro CMSMIG	AMSERV ADGCMS
creating an SVC interrupt handler ADGCMS	ASSEMBLE
deleting an SVC interrupt handler ADGCMS	when to use ADGCMS
entry and exit linkage ADGCMS	ASSGN ADGCMS
IMMCMD macro	CALL ADGCMS
creating immediate commands ADGCMS	CANCEL ADGCMS
deleting immediate commands ADGCMS	CMS SETKEY ADMIN
querying immediate commands ADGCMS	CMS/DOS ADGCMS
interfaces that do not support 31-bit addressing	COPYFILE
CMSMIG	copying files into SFS directories CMSMIG
I/O support CMSMIG	CSLLIST
LINERD macro	listing information about members of a
reading lines from a terminal ADGCMS	callable services library CMSMIG
LINEWRT macro	DDR ADGCMS
writing lines from a terminal ADGCMS	DEBUG CMSMIG
macros that define abend exit routines	DEFSEG
ADGCMS	creating a saved segment ADGCMS,
new and changed macros CMSMIG	CMSMIG
NUCEXT macro CMSMIG	description of ADMIN
creating immediate commands ADGCMS	SAVESYS parameter ADMIN
defining nucleus extensions ADGCMS	DLBL ADGCMS
deleting nucleus extensions ADGCMS	DOSLIB ADGCMS
general formats ADGCMS	DOSLKED ADGCMS
querying nucleus extensions ADGCMS	DOSPLI ADGCMS
PARSECMD macro CMSMIG	DSERV ADGCMS
preferred interface macros CMSMIG	ERASE CMSMIG
PRINTL macro ADGCMS	ESERV ADGCMS
PUNCHC macro ADGCMS, CMSMIG	FCOBOL ADGCMS
RDCARD macro ADGCMS, CMSMIG RDTAPE macro CMSMIG	FETCH ADGCMS
SCAN macro CMSMIG	FILEDEF ADGCMS
setting up parameter lists ADGCMS	determining what file definitions are in effect ADGCMS
SEGMENT macro	
	overiding default file definitions ADGCMS FINIS
comparison to DIAGNOSE X'64' CMSMIG deleting a saved segment ADGCMS	closing files in SFS CMSMIG
general formats CMSMIG	FREELOWE
loading a saved segment ADGCMS	conversion considerations CMSMIG
SUBCOM macro CMSMIG	GENDIRT command ADGCMS
	Carrage Communication of the Contraction of the Con

defining subcommands ADGCMS

### GENMOD ADGCMS

description of enhancements CMSMIG generating modules ADGCMS generating relocatable modules ADGCMS generating transient modules ADGCMS restricting a module to a particular mode

**ADGCMS** 

saving historic information for a module **ADGCMS** 

setting addressing mode ADGCMS, CMSMIG specifying a residency mode for a module **ADGCMS** 

specifying an addressing mode for a module **ADGCMS** 

# GLOBAL ADGCMS

identifying macro libraries prior to assembly **ADGCMS** 

resolving external references ADGCMS when to use ADGCMS

## GLOBAL CSLLIST

manipulating the search order of callable services libraries CMSMIG

### **HASM**

when to use ADGCMS

### **INCLUDE**

determining where programs are loaded

resolving external references ADGCMS saving relocation information CMSMIG

IPL CMS ADMIN

in EXECs APGDE

issued from a macro XEDITUG issuing in a work unit ADGCMS

LANGGEN ADMIN

LANGMERG ADMIN

LISTDS ADGCMS

LISTIO ADGCMS

LKED ADGCMS

LOAD

determining where files get loaded ADGCMS determining where programs are loaded

**CMSMIG** 

executing TEXT files ADGCMS generating modules ADGCMS

saving relocation information CMSMIG setting addressing mode ADGCMS, CMSMIG

LOADMOD ADGCMS, CMSMIG

MOVEFILE ADGCMS

NUCXDROP CMSMIG

**NUCXLOAD CMSMIG** 

NUCXMAP ADGCMS

conversion considerations CMSMIG description of enhancements CMSMIG

OPTION ADGCMS

OVERRIDE ADMIN

PROGMAP ADGCMS, CMSMIG

PSERV ADGCMS

**QUERY ADGCMS** 

QUERY BLIP CMSMIG

**QUERY CSLLIST** 

displaying names of callable services libraries in the search order CMSMIG

**OUERY DISK** 

displaying 4-digit device addresses CMSMIG displaying SFS directory information **CMSMIG** 

**QUERY FILEDEF** 

determining what file definitions are in effect **ADGCMS** 

**QUERY LIBRARY** 

displaying names of all library files CMSMIG

QUERY MACLIB ADGCMS

**QUERY SEARCH** 

displaying 4-digit device addresses CMSMIG displaying SFS directory information

**CMSMIG** 

**OUERY SEGMENT** 

displaying information about ADGCMS

RELEASE ADGCMS

RENAME

renaming files in SFS directories CMSMIG

RSERV ADGCMS

**RTNDROP** 

canceling the binding of callable services library routines CMSMIG

**RTNLOAD** 

loading and binding a callable services library routine CMSMIG

**RTNMAP** 

displaying information about callable services library routines CMSMIG

**RTNSTATE** 

obtaining status of callable services library routines CMSMIG

**SAVESEG** 

creating saved segment ADGCMS,

**CMSMIG** 

search order ADGCMS

CMS Shared File System (SFS)
See also SFS (Shared File System)
accessing directories INTRO
creating aliases INTRO
description INTRO
locking files and directories INTRO
PUBLIC key word INTRO
sharing files or directories INTRO
CMS subcommand of XEDIT command XEDIT,
XEDITUG
issuing without an operand XEDIT
CMS subcommand of IPCSSCAN command
description IPCSREF
example output IPCSREF
format IPCSREF
functional category IPCSREF
messages IPCSREF
responses IPCSREF
usage note IPCSREF
CMS (conversational monitor system) EXEC2,
SAACOM, TERMREF
abend DIAG
dump reading DIAG
message DIAG
recovery function DIAG
abend codes SYSMSG
action for SYSMSG
codes SYSMSG
information collection SYSMSG
reason for SYSMSG
recovering from the abend SYSMSG
reporting the abend SYSMSG
user action SYSMSG
accessing with no virtual disks attached to
virtual machine CMSREF
alternate nucleus placement INST
application interfaces ADGCMS
assembling programs INTRO
basic description CMSREF
batch processing INTRO
building nucleus
existing VM system procedure INST
caloung vivi system bloccuule ii abi
installing new system national language INST
installing new system national language INST PUT/COR procedure SERV
installing new system national language INST PUT/COR procedure SERV Starter System procedure INST
installing new system national language INST PUT/COR procedure SERV Starter System procedure INST using VMFBLD SERV
installing new system national language INST PUT/COR procedure SERV Starter System procedure INST using VMFBLD SERV using VMFLOAD SERV
installing new system national language INST PUT/COR procedure SERV Starter System procedure INST using VMFBLD SERV using VMFLOAD SERV checklist for reporting abends DIAG
installing new system national language INST PUT/COR procedure SERV Starter System procedure INST using VMFBLD SERV using VMFLOAD SERV checklist for reporting abends DIAG communicating with INTRO
installing new system national language INST PUT/COR procedure SERV Starter System procedure INST using VMFBLD SERV using VMFLOAD SERV checklist for reporting abends DIAG communicating with INTRO compiling programs INTRO
installing new system national language INST PUT/COR procedure SERV Starter System procedure INST using VMFBLD SERV using VMFLOAD SERV checklist for reporting abends DIAG communicating with INTRO

installation saved segment (CMSINST) commands See CMS (conversational monitor system) **CMSUG** DCSSGEN command INST commands communicating with INTRO discontinuing CMSUG communications directory CMSMIG function INST description CONGREF installing INST tags CONGREF load map INST control block relationship DIAG loadlist INST control file location in virtual storage INST prompts displayed during CMS nucleus DMSMSP SERV **DMSSP SERV** build INST use of CMSUG debugging DIAG using IPL command to link CMSUG defining GCSREF definition ADMIN, APGDE, initializing INTRO CMSUG, INTRO, SYSMSG introductory description INTRO developing applications INTRO invoking the directory program PLNGDE DIRECT command PLNGDE IPS/CMS SECUR VM/XA-unique operands PLNGDE issuing commands to SPIREF disk-resident command modules **IUCV SFPROG** creating from text files SERV between two virtual machines SFPROG rebuilding SERV CMSIUCV macro SFPROG dump INTRO example SFPROG file printing DIAG exits SFPROG generation, automatic DIAG guidelines and limitations SFPROG editor (EDIT) TERMREF HNDIUCV macro SFPROG See also System Product Editor sample program SFPROG compatibility with XEDIT libraries environment CMSUG See libraries invoking XEDIT limits EXEC2 in migration mode CMSREF console EXEC2 end-of-command ADGCMS console stack EXEC2 end-of-SVC ADGCMS filename EXEC2 environment APGDE, CMSUG, SPIUG line length EXEC2 environment name SPIREF lookaside buffer EXEC2 error messages SYSMSG NUMERIC OVERFLOW EXEC2 establishing contact with TERMREF numeric values EXEC2 EXEC procedure INTRO printed line length EXEC2 facility for debugging programs INTRO statement length EXEC2 files word length EXEC2 See files, CMS &EXIT return codes EXEC2 functions described ADRCMS &TRACE EXEC2 invoking ADRCMS load library APDGE general description INST, INTRO defining GCSREF **HELP facility INTRO** load map (CMSNUC MAP) IPCSREF immediate commands printing INST See immediate commands saveing on disk INST in full-screen loader See full-screen CMS See loader

Refer to the foldout page at the back of this book for a chart of abbreviations and their corresponding manuals.

LOADLIBs	nucleus
compressing with LOADLIB command CMSREF	See also CMS (conversational monitor system), building nucleus
copying with LOADLIB command CMSREF	adding segment for Y minidisk directory
creating with LKED command CMSREF	(Y-STAT) INST
executing a load module from CMSREF	alternate placement INST
listing with LOADLIB command CMSREF	load map INST
loading	saving <b>INST</b>
into your virtual machine CMSUG	nucleus generation profile (DMSNGP)
national language files INST	function INST
VSE modules as CMS files INST	loading sample file INST
loading system code from product tape	prompt and responses INST
existing VM system procedure INST	tailoring considerations INST
starter system procedure INST	nucleus generation prompts and responses
loadlist	existing VM system procedure INST
CMSLOAD EXEC SERV	installing new system national language INST
DMS3XJ EXEC SERV	Starter System procedure INST
DMS3XK EXEC SERV	operating characteristics ADGCMS
DMS5JA EXEC SERV	option of DLBL command CMSREF
DMS5JB EXEC SERV	OS support ADGCMS
DMS5JC EXEC SERV	OS/MVS simulation ADGCMS
DMS5JD EXEC SERV	parameters
DMS5JG EXEC SERV	AUTOCR PLNGDE
SFS load modules SERV	BATCH PLNGDE
MACLIBs	INSTEG PLNGDE
See MACLIBS	NOSPROF PLNGDE
macro instructions described ADRCMS	PF keys PRIMER
macros, connectivity	setting PRIMER
ADDENTRY macro ADGCMS, ADRCMS,	Primer SPIUG
APGDE, CMSMIG	program boundaries ADGCMS
CPRB macro ADGCMS, ADRCMS, APGDE,	programming interface
CMSMIG	compatibility group, contents of ADGCMS,
CSMRETCD macro ADGCMS, ADRCMS,	ADRCMS
APGDE, CMSMIG	compatibility group, definition of ADGCMS,
DELENTRY macro ADGCMS, ADRCMS,	ADRCMS, CMSMIG
APGDE, CMSMIG	compatibility interface, contents of CMSMIG
programming interface, overview of ADGCMS	DOS/VSE group, definition of ADGCMS,
SENDREQ macro ADGCMS, ADRCMS,	ADRCMS, CMSMIG
APGDE, CMSMIG	interfaces that do not support 31-bit addressing
message repository	CMSMIG
updating ADMIN, SFPROG	new and changed macros CMSMIG
messages INTRO	non-simulated OS/MVS group, definition of
other SYSMSG	ADGCMS, ADRCMS, CMSMIG
	· · · · · · · · · · · · · · · · · · ·
migrating to full-screen CMS CMSUG minidisk INTRO	non-simulated OS/MVS macros ADGCMS,
modules	ADRCMS, CMSMIG overview ADGCMS, CMSMIG
creating from text files SERV	preferred interface, contents of CMSMIG
rebuilding SERV	preferred interface group, advantages of
non-paging DASD I/O	ADGCMS, ADRCMS, CMSMIG
improving the performance of ADMIN	preferred interface group, components of
	ADGCMS, ADRCMS, APGDE, CMSMIG
	simulated OS/MVS group, definition of
	ADGCMS, ADRCMS, CMSMIG

simulated OS/MVS group, macros contained in user task INTRO ADGCMS, ADRCMS users simulated OS/MVS macros, CMS support of AUTOCR option GENCMD **CMSMIG** BATCH option **GENCMD** System/370 compatibility considerations, FILEPOOL option GENCMD ENABLE macro CMSMIG· INSTSEG option GENCMD 370-XA toleration considerations, ENABLE NOSPROF option GENCMD SAVESYS option GENCMD macro CMSMIG ready message TERMREF using the VSE/SP interactive interface running programs INTRO **RGOS** saved system view INTRO adding segment for Y minidisk directory using **OPGDE** (Y-STAT) INST using OS/MVS data sets ADGCMS location in virtual storage INST virtual machine INTRO VSAM support ADGCMS saving nucleus existing VM system procedure INST VSE macros ADGCMS, ADRCMS Starter System procedure INST VSE simulation ADGCMS search order SPIREF window PRIMER sequence of functions SFPROG work unit SFSAD simulation of VSE functions ADGCMS Y minidisk directory (Y-STAT) INST CMS (conversational monitor system) commands storage STRINIT macro ADRCMS ACCESS CMSREF SUBCOM function ADRCMS ALARM VSCREEN CMSREF subcommands INTRO AMSERV CMSREF subset mode ASMGEND SERV entering **XEDIT** ASM3705 INST environment CMSUG ASSEMBLE CMSREF returning from XEDIT ASSGN CMSREF using CMSUG CLEAR VSCREEN CMSREF with full-screen CMS OFF XEDIT **CLEAR WINDOW CMSREF** with full-screen CMS ON XEDIT CMDCALL CMSREF support CMSBATCH CMSREF for OS ADGCMS **CMSGEND SERV** for VSAM ADGCMS **CMSSERV CMSREF** SVC levels ADGCMS COMPARE CMSREF System Product Interpreter APGDE CONVERT COMMANDS CMSREF system services APGDE CONWAIT CMSREF tailoring ADMIN COPYFILE CMSREF tape support CP CMSREF GIVE command PLNGDE CREATE ALIAS CMSREF tape volume switching ADGCMS CREATE DIRECTORY CMSREF terminal system APGDE CREATE LOCK CMSREF transmitting command to XEDIT CREATE NAMEDEF CMSREF understanding it CMSUG CSLLIST CMSREF unique functions SPIREF CURSOR VSCREEN CMSREF UPDATE option APGDE DCSSGEN INST COBOL APGDE **DEFAULTS CMSREF** FORTRAN APGDE DEFINE VSCREEN CMSREF used with SNA GCSREF **DEFINE WINDOW CMSREF** user load map IPCSREF DELETE LOCK CMSREF

**DELETE NAMEDEF CMSREF** line PRIMER DELETE VSCREEN CMSREF LISTDIR CMSREF **DELETE WINDOW CMSREF** LISTDS CMSREF **DESBUF CMSREF** LISTFILE CMSREF, SPIREF, SPIUG DIRLIST CMSREF LISTIO CMSREF DISK CMSREF LKED CMSREF DLBL CMSREF LOAD CMSREF DOSGEN INST LOADLIB CMSREF DOSLIB CMSREF LOADMOD CMSREF DOSLKED CMSREF loop ADGCMS DROPBUF CMSREF, SPIUG MACLIB CMSREF DSERV CMSREF MACLIST CMSREF **EDIT CMSREF** MAKEBUF CMSREF, SPIUG entering CMSREF MAXIMIZE WINDOW CMSREF ERASE CMSREF MINIMIZE WINDOW CMSREF **ESERV CMSREF** MODMAP CMSREF EXEC CMSREF MOREHELP CMSREF **EXECDROP CMSREF, SPIREF** MOVEFILE CMSREF **EXECIO CMSREF, SPIREF, SPIUG** NAMEFIND CMSREF **EXECLOAD CMSREF, SPIREF** NAMES CMSREF **EXECMAP CMSREF, SPIREF** NETDATA CMSREF **EXECOS CMSREF. SPIREF** NOTE CMSREF EXECSTAT CMSREF, SPIREF NUCXDROP CMSREF **EXECUPDT CMSREF, SPIREF** NUCXLOAD CMSREF, SPIREF execution characteristics CMSREF, CMSUG NUCXMAP CMSREF, SPIREF FETCH CMSREF OPTION CMSREF FILEDEF CMSREF OSRUN CMSREF FILELIST CMSREF PARSECMD CMSREF, SPIREF FINIS CMSREF, SPIUG PEEK CMSREF FORMAT CMSREF POP WINDOW CMSREF GENDIRT CMSREF POSITION WINDOW CMSREF general information CMSUG PRELOAD SERV GENIMAGE ADMIN PRINT CMSREF GENMOD CMSREF processing tape labels CMSUG GENMSG CMSREF PROGMAP SPIREF GENSERVE SERV PSERV CMSREF GEN3705 INST PUNCH CMSREF GET VSCREEN CMSREF PUT SCREEN CMSREF GLOBAL CMSREF PUT VSCREEN CMSREF GLOBALV CMSREF, SPIREF putting data onto a program stack SPIUG GRANT AUTHORITY CMSREF QUERY CMSREF, SPIREF HELP CMSREF RESERVE SFPROG HELPCONV CMSREF RT SPIUG HIDE WINDOW CMSREF SAMGEN INST HT SPIUG SAVENCP INST IDENTIFY CMSREF, SPIREF search function ADRCMS **IMAGELIB ADMIN** search order CMSREF, CMSUG IMMCMD CMSREF SEGMENT SPIREF immediate commands SFPROG SET SPIREF INCLUDE CMSREF SET AUTOREAD CONPAO ITASK INST SET COMDIR CONPAO LABELDEF CMSREF SET COMDIR ON CONPAO LANGGEN ADMIN, SFPROG SET FULLSCREEN CONPAO SET SERVER ON CONPAO LANGMERG SFPROG language, basic description CMSREF SORT SPIUG

SPLOAD INST summary CMSUG

CMS commands CMSREF

CMS commands in other publications CMSREF suppressing messages issued by SPIUG taking data from a program stack SPIUG transient area CMSREF, CMSUG used with EXECs written in REXX language

**CMSUG** 

user area CMSREF, CMSUG

using SPIUG

UTILITY SERV

VMFAPPLY SERV

VMFASM SERV

VMFBLD SERV

VMFDOS INST

VMFHASM SERV

VMFLKED SERV

VMFLOAD SERV

VMFMAC SERV

VMFMERGE SERV

VMFNLS SERV

VMFOVER SERV

VMFPLC2 SERV

VMFREC SERV

VMFREMOV SERV

VMFSETUP SERV

VMFTXT SERV

VMFZAP SERV

VRSIZE SERV

VSAMGEN INST

**VSEVSAM INST** 

XEDIT SPIREF

XMITMSG SPIREF

ZAP SERV

ZAPTEXT SERV

CMSAMS saved segment PLNGDE

function INST

installing INST

location in virtual storage INST

moving to different location INST

VSAMGEN EXEC INST

CMSBAM segment PLNGDE

function INST

installing INST

location in virtual storage INST

moving to different location INST

SAMGEN EXEC INST

CMSBATCH command PLNGDE

description CMSREF

example of use INTRO

recursive abends encountered by CMSREF

CMSCALL macro

advantages of ADGCMS

call charts ADGCMS, CMSMIG

CALLTYP = operand ADRCMS

CMSCALL call-type values ADGCMS

comparison to SVC 202 CMSMIG

comparison with SVC 202 ADRCMS

COPY = operand ADRCMS

creating subpools ADGCMS

description of CMSMIG

EPLIST = operand ADRCMS

ERROR = operand ADRCMS

FENCE = operand ADRCMS

general formats ADGCMS

MODIFY = operand ADRCMS

obtaining free storage ADGCMS

PLIST = operand ADRCMS

PSW settings when called routine starts

**ADRCMS** 

register contents when called routine starts

ADRCMS

releasing free storage ADGCMS

supervisor assisted linkage ADGCMS

UFLAGS = operand ADRCMS

CMSCB (OS control blocks) DIAG

CMSCT (Set\_Conversation\_Type) routine

CONGREF, SAACOM

CMSCVT macro ADRCMS

CMSDEV macro ADGCMS

DIAGNOSE code X'24' ADRCMS

obtaining virtual device characteristics

**ADRCMS** 

using with PRINTL macro ADRCMS

CMSDOS segment PLNGDE

DOSGEN EXEC INST

function INST

installing INST

load map INST, IPCSREF

location in virtual storage INST

moving to different location INST

CMSDT (Set Deallocate Type) routine

CONGREF, SAACOM

CMSED (Set Error Direction) routine

CONGREF, SAACOM

CMSEND (Send\_Data) routine CONGREF

call description SAACOM

example flow using SAACOM

CMSERR (Send_Error) routine CONGREF	CMSMN (Set_Mode_Name) routine CONGREF,
call description SAACOM	SAACOM
example flow using SAACOM	CMSNUC MAP IPCSREF
CMSF (Set_Fill) routine CONGREF, SAACOM	CMSOUT window PRIMER
CMSFILES physical saved segment PLNGDE,	CMSPLN (Set_Partner_LU_Name) routine
SFSAD	CONGREF, SAACOM
function INST	CMSPOINT subcommand of IPCSSCAN command
installing INST	description IPCSREF
location in virtual storage INST	example output IPCSREF
CMSG subcommand of XEDIT command XEDIT,	format IPCSREF
XEDITUG	functional category IPCSREF
issued to a typewriter terminal XEDIT	messages IPCSREF
issued when cmdline is off XEDIT	responses IPCSREF
issued when stack is empty XEDIT	usage note IPCSREF
CMSGEND EXEC INTRO	CMSPTR (Set_Prepare_to_Receive_Type) routine
and function SFPROG	CONGREF, SAACOM
example SERV	CMSRC (Set_Return_Control) routine CONGREF,
format SERV	SAACOM
function SERV	CMSRET macro CMSMIG
operands SERV	examples ADGCMS
options SERV	FPR = operand ADRCMS
regenerating PROP command SERV	GR = operand ADRCMS
responses SERV	RC = operand ADRCMS
usage notes SERV	returning to a calling program ADGCMS
CMSINST saved segment CMSUG, PLNGDE	CMSRT (Set_Receive_Type) routine CONGREF,
DCSSGEN command INST	SAACOM
discontinuing CMSUG	CMSSERV command
function INST	description CMSREF
installing INST	format CMSREF
load map INST	messages CMSREF
loadlist INST	usage notes CMSREF
location in virtual storage INST	CMSSL (Set_Sync_Level) routine CONGREF
prompts displayed during CMS nucleus build	call description SAACOM
INST	example flow using SAACOM
CMSIPCS MAP IPCSREF	CMSST (Set_Send_Type) routine CONGREF
CMSIUCV macro ADRCMS, CMSMIG, SFPROG	call description SAACOM
ACCEPT function CONGREF	example flow using SAACOM
CONNECT function CONGREF	CMSSTACK macro
format SFPROG	ERROR = operand ADRCMS
optional parameters SFPROG	ORDER = operand ADRCMS
required parameters SFPROG	TEXT = operand ADRCMS
RESOLVE function CONGREF	CMSSTOR macro
return codes SFPROG	CMSSTOR OBTAIN
SEVER function CONGREF	ADDR = operand ADRCMS
used in APPC/VM programs CMSMIG	BNDRY = operand ADRCMS
CMSLD (Set_Log_Data) routine CONGREF,	BYTES = operand ADRCMS
SAACOM	DWORDS = operand ADRCMS
CMSLEVEL macro	ERROR = operand ADRCMS
general format ADRCMS	LOC = operand ADRCMS
CMSLIB assembler macro library ddname	MSG = operand ADRCMS
CMSREF	SUBPOOL = operand ADRCMS
CMSLIB MACLIB ADGCMS, APGDE	TYPCALL = operand ADRCMS
CMSLOAD EXEC SERV	CMSSTOR RELEASE
	ADDR = operand ADRCMS
	BYTES = operand ADRCMS

DWORDS = operand ADRCMS library volume directory entries ADGCMS ERROR = operand ADRCMS options MSG = operand ADRCMS **BUFSP ADGCMS** SUBPOOL = operand ADRCMS CAT ADGCMS TYPCALL = operand ADRCMS **EXTENT ADGCMS** comparison to DMSFREE and DMSFRET **MULT ADGCMS** VSAM ADGCMS CMSMIG general formats CMSMIG overview CMSUG generating reentrant code ADRCMS performance ADGCMS CMSTPN (Set\_TP\_Name) routine CONGREF, physical IOCS macros ADGCMS, ADRCMS program development using ADGCMS SAACOM **CMSUSER PLNGDE** relationship to CMS and VSE ADGCMS restrictions ADGCMS CMSUT1 file and CMS commands that create CMSUG restrictions when using VSE/SP 2.1 and later created by DISK LOAD command CMSREF CMSVMLIB segment PLNGDE SVC support routines ADGCMS, ADRCMS function INST tape label processing CMSUG terminology ADGCMS installing INST location in virtual storage INST user responsibilities ADGCMS CMSVSAM segment PLNGDE using tape input/output ADGCMS function INST using with VSE/SP RGOS GCS restriction INST VM/SP directory entries ADGCMS installing INST VSE I/O macros ADGCMS, ADRCMS location in virtual storage INST VSE supervisor macros ADGCMS, ADRCMS moving to different location INST VSE transients simulation ADGCMS VSAMGEN EXEC INST VSE volumes needed ADGCMS CMS/DOS VSE/VSAM macros supported ADGCMS commands ADGCMS CMTRTS (Test\_Request\_to\_Send\_Received) considerations for execution ADGCMS routine CONGREF, SAACOM control blocks simulated by ADGCMS cm, variable definition ADMIN, SYSMSG described GENCMD, SYSCMD directory entries PLNGDE CNCL key APGDE DOSLKED command ADGCMS CNOS verbs CONPAO DTFCD macro ADGCMS, ADRCMS CNTL operand DTFCN macro ADGCMS, ADRCMS of TERMINAL command GENCMD DTFDI macro ADGCMS, ADRCMS CNTRL command, file type usage in CMS DTFMT macro ADGCMS, ADRCMS **CMSUG** DTFPR macro ADGCMS, ADRCMS CNTRL tag, product parameter file SERV DTFSD macro ADGCMS, ADRCMS CNTRLOP tag, product parameter file SERV end-of-tape processing CMSUG COBOL APGDE, INTRO, PRIMER, SAACOM entering the environment ADGCMS compilers APGDE environment created with CMSDOS segment files created by APGDE INST specifying options for in CMS/DOS **EXCP support ADGCMS CMSREF** extents ADGCMS compiling APGDE generating ADGCMS data types APGDE ddnames in APGDE interface conversion considerations CMSMIG filetype APGDE invoking linkage editor ADGCMS tab settings APGDE

Refer to the foldout page at the back of this book for a chart of abbreviations and their corresponding manuals.

libraries ADGCMS

INCLUDE statement of SQL APGDE

interactive debug APGDE	collection SFSAD
language	See also resource
example call to CSL routine ADRCMS	as viewed by SNA network CONPAO
example program calling DMSERP	communicating with AVS virtual machine
ADRCMS	CONPAO
OS COBOL files APGDE	description of CONPAO
OS/VS COBOL Compiler APGDE	example CONPAO
SQL	initialization CONPAO
commands APGDE	link performance CONPAO
data types APGDE	links for CONPAO
invoking APGDE	merging CONPAO
updating source files APGDE	overview CONPAO
workfiles APGDE	program communications with network
COBOL command APGDE	(overview) CONPAO
code conversion	program communications within
of APL keys XEDIT	(overview) CONPAO
of TEXT keys XEDIT	querying CONPAO
CODE operand	querying (TSAF QUERY) CONPAO
of EXTERNAL command GENCMD	representation to SNA network CONPAO
of SELECT subcommand IPCSREF	revoking gateways when merging CONGREF
of SENDERR CONGREF	revoking resources when merging CONGREF
of SEVER CONGREF	sharing resources within CONPAO
codes	sizes CONPAO
abend SYSMSG	SNA network view of CONPAO
for CP abnormal termination (abend) SYSMSG	structure CONPAO
SFS reason codes SYSMSG	Collection Resource Management System
condition	Service (*CRM)
See condition codes	See *CRM (Collection Resource Management
error SPIREF	System Service)
return	colon as label terminators SPIREF
See return codes	color, defining
CODE = operand	SCREEN directory control statement
HNDEXT macro ADRCMS	PLNGDE
coding	with SET COLOR XEDITUG
an SNA controller, example PLNGDE	with SET CTLCHAR XEDITUG
conventions ADMIN	with SET RESERVED XEDITUG
conventions, macro ADRCMS	determining values in effect GENCMD
your own backup program SFSAD	color display, defining
COL option	using SET COLOR XEDIT
of COMPARE command CMSREF	using SET CTLCHAR XEDIT
cold start	using SET RESERVED XEDIT
VM/SP HPO OPGDE	color graphics INTRO
collating sequence using XRANGE SPIREF	GDDM INTRO
COLLECT operand of FDISPLAY subcommand	
IPCSREF	COLOR option
collecting	of EXTRACT XEDIT
	of QUERY XEDIT
CP DATA entries in the CPTRAP file DIAG	of SET XEDIT
CP data, using CP interface to CPTRAP DIAG	COLPTR option
in the CPTRAP file DIAG	of EXTRACT XEDIT
I/O activity DIAG	of QUERY XEDIT
trace table entries in the CPTRAP file DIAG	of SET XEDIT
TSAF error information DIAG	of TRANSFER XEDIT
VICLUAL MACRIME GATA LITALY	

COLUMN option	displayed
of EXTRACT XEDIT	multiple pairs of XEDIT
of QUERY XEDIT	specifying XEDIT
of TRANSFER XEDIT	formatting SPIUG
column pointer	location EXEC2
defined XEDITUG	location information PRIMER
displayed in the scale XEDITUG	number, specifying column-target as XEDII
displayed on typewriter terminal XEDITUG	numbers
displaying on typewriter terminal XEDIT	used with CDELETE CMSLOT
indicator in file identification line XEDITUG	used with CLOCATE CMSLOT
moved by	of data, copying CMSREF
CFIRST XEDIT	specifying
CINSERT XEDIT	for copy operations CMSREF
CLAST XEDIT	specified for viewing XEDITUG
CLOCATE XEDIT	col, variable
movement restricted by zone XEDIT	described GENCMD, SYSCMD
moving XEDIT, XEDITUG	Col = XEDITUG
in typewriter mode XEDITUG	combination, arithmetic SPIREF
to beginning of line XEDITUG	combined directory, VM/SP HPO and VM/XAT
to end of line XEDITUG	SP ADMIN
removing from typewriter terminal XEDIT	using DIRMAINT with ADMIN
resetting CMSLOT, XEDITUG	combining
in typewriter mode XEDITUG	files XEDITUG
splitting a line at XEDIT	in typewriter mode XEDITUG
subcommands based on position of	using GET XEDIT
XEDITUG	using PUT XEDIT
use in	using PUTD XEDIT
CAPPEND XEDIT	lines XEDIT
CDELETE XEDIT	examples XEDIT
COVERLAY XEDIT	SET options XEDITUG
CREPLACE XEDIT	sets of lines XEDIT
JOIN XEDIT	words EXEC2
SPLIT XEDIT	comma to indicate continuation of a clause
used with	SPIUG
CDELETE CMSLOT	command
CFIRST CMSLOT	See also commands
CINSERT CMSLOT	abbreviation PRIMER
CLOCATE CMSLOT	abbreviations used in HELP CMSUG
column-target XEDITUG	access
as absolute column number XEDIT	changing for virtual machines ADMIN
as complex string expression XEDIT	migration considerations ADMIN
as relative displacement XEDIT	security and system integrity ADMIN
as string expression XEDIT	and console support <b>DIAG</b>
description of XEDIT	assigning privilege classes ADMIN
search for affected by SET STREAM XEDIT	authorization
use in CDELETE XEDIT	planning <b>ADMIN</b>
use in CLOCATE XEDIT	determining functions to be done by users
columns	ADMIN
comparing files by CMSREF	DIRECT PLNGDE
defined for target searches XEDIT	JINLOI ILINGPE
dering to this contolled ADDII	

environment SPIUG	GCS (group control system) commands;
See also environments	IPCS (interactive problem control system)
CP GENCMD, SYSCMD	commands;
defined GENCMD, SYSCMD	TSAF virtual machine, commands
virtual machine GENCMD, SYSCMD	abbreviating CMSREF
errors, trapping	ACCESS INTRO
See SIGNAL instruction	ACNT ADMIN
format in GCS GCSREF	ADD RGOS
formats, interpreting PRIMER	ADD ROOS ADSTOP ADMIN, DIAG, INTRO
	alternative destinations SPIREF
handling, SNA CCS SFPROG	
HELP CMSUG	ASMGEND SERV
inhibition	ASM3705 INST
See TRACE instruction	ASSEMBLE INTRO
input area XEDITUG	assigning to kinds of users ADMIN
of the CMS window PRIMER	associating with privilege classes and users
language processor INTRO	ADMIN
line	ATTACH ADMIN, INTRO, RGOS
changing location XEDITUG	AUTHORIZE INTRO
changing location, example of XEDITUG	AUTOLOG ADMIN
changing position of XEDIT	AVS (APPC/VM VTAM Support)
defining display features XEDITUG	AGW ACTIVATE GATEWAY CONPAO
displaying message in XEDIT, XEDITUG	AGW CNOS CONPAO
in CMS PRIMER	AGW DEACTIVE CONV CONPAO
in full-screen CMS CMSUG	AGW DEACTIVE GATEWAY CONPAO
in the CMS window PRIMER	AGW QUERY CONPAO
	3
large arrow PRIMER	AGW QUIESCE CONPAO
location on screen XEDITUG	AGW SET ETRACE CONPAO
redisplaying subcommand in XEDIT	AGW SET ITRACE CONPAO
stacked by READ XEDIT	AGW START CONPAO
loop ADGCMS	AGW STOP CONPAO
name GENCMD, SYSCMD	prefix CONPAO
operands GENCMD, SYSCMD	BACKSPAC ADMIN, INTRO
privilege classes, changing ADMIN	BEGIN DIAG, RGOS
QUERY SRM PGMACT PLNGDE	BRKKEY <b>RGOS</b>
SAVESYS PLNGDE	CACHE ADMIN
SET SRM PLNGDE	CACHE OWN ADMIN
processing, an overview ADGCMS	CACHE QUERY ADMIN
stack APGDE	CHANGE ADMIN, INTRO
types ADMIN	changing ADMIN
use	CLOSE INTRO
for the 3088, channel command words	CMS SETKEY ADMIN
PLNGDE	CMS (conversational monitor system)
for the 3880 ADMIN	See CMS (conversational monitor system)
for the 3990 ADMIN	commands
for Vector Facility ADMIN	CMSBATCH INTRO
COMMAND as an environment name SPIREF	
	CMSGEND SERV
COMMAND subcommand XEDIT	COMMANDS ADMIN
Command Syntax Definition Language CMSMIG	COPYFILE INTRO
commandline operand	COUPLE RGOS
of CP command GENCMD	CP (control program) INTRO
of #CP command GENCMD	ATTACH CONPAO
commands EXEC2	class A, B, C, D, E, F summary SYSCMD
See also CMS (conversational monitor system)	entering OPGDE
commands;	functional summary SYSCMD
CP (control program) commands;	miscellaneous GENCMD, SYSCMD

spooling OPGDE summary **GENCMD**, **OPGDE** used for analysis and monitor functions GENCMD, SYSCMD used for device control GENCMD, SYSCMD used for spooling and file control GENCMD, **SYSCMD** used for virtual console GENCMD CP SET DUMP DIAG CP SPOOL CONSOLE DIAG CP STCP DIAG CP TRACE DIAG CPTRAP CONPAO, DIAG, RGOS DCP DIAG DCSSGEN INST DDR RGOS **DEBUG DIAG, INTRO** defaults shown by underscore in command format box CMSREF DEFINE ADMIN, DIAG, INTRO, RGOS destination of SPIREF **DETACH INTRO** DIAL INTRO, RGOS DIAL used with VSCS SFPROG DIRECT RGOS **DIRMAINT INTRO DISCARD INTRO** DISCONN INTRO, RGOS DISPLAY ADMIN, APGDE, DIAG, INTRO DMCP DIAG DOSGEN INST DRAIN INTRO, RGOS **DTRIPF INTRO DUMP DIAG** editing, help on how to use CMSLOT entering CMSREF entering from the WM window CMSREF environments CMSUG CMS CMSREF CP CMSREF ETRACE DIAG AVS DIAG TSAF DIAG ETRACE GROUP DIAG **EXECIO INTRO EXTERNAL RGOS** FILEDEF INTRO finding those authorized for user GENCMD **FLUSH INTRO** FORCE ADMIN, INTRO

FREE INTRO GCS (Group Control System) ACCESS GCSREF DLBL GCSREF ETRACE GCSREF FILEDEF GCSREF GDUMP GCSREF GLOBAL GCSREF **HX GCSREF** ITRACE GCSREF LOADCMD GCSREF OSRUN GCSREF **QUERY GCSREF** RELEASE GCSREF REPLY GCSREF SET GCSREF GDUMP DIAG general INTRO general user command summary (class G and ANY) OPGDE GENIMAGE ADMIN GENMOD DIAG, INTRO GENSERVE SERV **GENTSAF SERV** GEN3705 INST **GIVE** use with tape drive PLNGDE GLOBAL INTRO **HASM INTRO** HOLD INTRO how to enter CMSUG, PRIMER **IMAGEMOD ADMIN** immediate commands SFPROG **INCLUDE INTRO** INDICATE ADMIN, DIAG, INTRO INDICATE LOAD ADMIN INDICATE USER ADMIN, APGDÉ, OPGDE inhibiting with TRACE instruction SPIREF **INIT RGOS** IPCS (Interactive Problem Control System) **IPCSPRT CONPAO IPCSSCAN CONPAO** IPCSPRT DIAG IPL CMS command ADMIN description of ADMIN SAVESYS parameter ADMIN issued from a macro XEDITUG issuing from a program APGDE

Refer to the foldout page at the back of this book for a chart of abbreviations and their corresponding manuals. issuing to host SPIREF

ITASK INST

ITRACE	QUERY MITIME ADMIN
GCS DIAG	QUERY PAGING ADMIN
keyboard differences in entering CMSREF	QUERY PSTOR ADMIN
LANGGEN ADMIN, SFPROG	QUERY QDROP ADMIN
LANGMERG ADMIN, SFPROG	QUERY SET ADMIN
language CMSUG	QUERY SRM ADMIN, DIAG
CMS CMSREF, CMSUG	QUERY SRM PGMACT ADMIN
CP CMSUG	QUERY VECTOR ADMIN, OPGDE
LINK ADMIN, INTRO	QUERY VMSAVE ADMIN
LOAD DIAG, INTRO	RDRLIST INTRO
LOADBUF ADMIN, INTRO	READY RGOS
LOADCOND DIAG	RECEIVE INTRO
LOCATE DIAG	REPEAT INTRO
LOCK ADMIN, RGOS	rerunning PRIMER
LOGOFF	RESERVE SFPROG
FORCE ADMIN	RESET RGOS
LOGON ADMIN, RGOS	retrieving PRIMER
MESSAGE ADMIN	rules for entering CMSLOT, PRIMER
MIGRATE ADMIN, INTRO	RUN INTRO
MODMAP DIAG	SAMGEN INST
modules, creating CMSREF	SAVEFD ADMIN
MONITOR ADMIN, DIAG, INTRO	SAVENCP ADMIN, INST
MONITOR START DIAG	SCRIPT INTRO
NAMES INTRO	SDUMP DIAG
NetView PROP INTRO	search function ADRCMS
NETWORK DIAG	search order CMSUG
NETWORK ATTACH RGOS	SEND RGOS
notational conventions GENCMD, SYSCMD	SEND used with single console image facility
online HELP for CONPAO	SFPROG
operands CMSREF	SENDFILE INTRO
options CMSREF	SET DIAG, INTRO, RGOS
ORDER INTRO	SET AFFINITY ADMIN
OVERRIDE ADMIN	SET ASSIST ADMIN
passing GENCMD	SET AUTODUMP DIAG
PASSTHRU INTRO	SET CACHE ADMIN
PEEK INTRO	SET CPASSIST OFF ADMIN
PER DIAG, INTRO, RGOS	SET EMSG SFPROG
PLIOPT INTRO	SET ETRACE
PRELOAD SERV	TSAF DIAG
privileged INTRO	SET FAVORED RGOS
programmable operator SFPROG	SET FAVORED command ADMIN
CMD SFPROG	SET ITRACE
FEEDBACK SFPROG	AVS DIAG
GET SFPROG	SET MIH ADMIN
LGLOPR SFPROG	SET MINWS ADMIN, RGOS
LOADTBL SFPROG	SET MITIME ADMIN
LOG SFPROG	SET NOTRANS ADMIN
QUERY SFPROG	SET PAGING ADMIN
SET SFPROG	SET PRIORITY ADMIN, RGOS
STOP SFPROG	
PURGE INTRO	SET QDROP ADMIN
	SET RESERVE ADMIN, RGOS
QUERY DIAG, INTRO, RGOS	SET SASSIST ADMIN
QUERY AUTODUMP DIAG	SET SASSIST OFF ADMIN
QUERY CPTRAP CONPAO, DIAG	SET SMSG INTRO
QUERY CACHE ADMIN	SET SRM ADMIN

SET SRM IBUFF ADMIN, RGOS SET SRM MHFULL ADMIN SET SRM PGFULL ADMIN SET SRM PGMTLIM ADMIN SET SRM PREPAGE RGOS SET STBYPASS ADMIN, RGOS SET STBYPASS VR RGOS SET STMULTI ADMIN, RGOS SET S370E ON RGOS SET VMSAVE ADMIN SETPRT ADMIN SHUTDOWN ADMIN, INTRO REIPL operand ADMIN SMSG SFPROG SPACE INTRO SPLOAD INST SPMODE INTRO, RGOS SPOOL ADMIN, INTRO SPOOL CONSOLE START OPGDE SPTAPE INTRO stacking in terminal input buffer CMSREF START ADMIN, INTRO STCP ADMIN, DIAG stopping GCSREF STORE ADMIN, APGDE, DIAG STORE STATUS DIAG, RGOS summary for debugging DIAG summary of use GENCMD, OPGDE, SYSCMD SVCTRACE DIAG, INTRO syntax CONPAO SYSTEM DIAG, RGOS SYSTEM CLEAR ADMIN system command summary (class A, B, C, D, E, F) **OPGDE** SYSTEM RESTART DIAG TAG ADMIN, OPGDE TERMINAL INTRO, RGOS BREAKIN GUESTCTL RGOS, SFPROG BRKKEY SFPROG CONMODE 3270 SFPROG SCRNSAVE OFF SFPROG SCRNSAVE ON SFPROG text format of GENCMD, SYSCMD to collect and analyze system information DIAG to trace events in virtual machines DIAG TRACE ADMIN, DIAG, INTRO TRANSFER ADMIN, INTRO translation synonyms CMSUG translations CMSUG

TSAF (Transparent Services Access Facility) ADD LINK CONPAO DELETE LINK CONPAO **QUERY CONPAO** RUNTSAF CONPAO SET ETRACE CONPAO STOP TSAF CONPAO UNLOCK ADMIN used in file pool administration SFSAD used to control a terminal session, summary GENCMD, OPGDE, SYSCMD utility APGDE UTILITY SERV VARY INTRO, RGOS VARY OFFLINE ADMIN, OPGDE VARY ONLINE ADMIN, OPGDE VMDUMP DIAG, INTRO, RGOS VMFAPPLY SERV VMFASM SERV VMFBLD SERV VMFDOS INST VMFHASM SERV VMFLKED SERV VMFLOAD SERV VMFMAC SERV VMFMERGE SERV VMFNLS SERV VMFOVER SERV VMFPLC2 SERV VMFREC SERV VMFREMOV SERV VMFSETUP SERV VMFTXT SERV VMFZAP SERV VRSIZE SERV VSAMGEN INST VSEVSAM INST when to enter CMSREF **XEDIT INTRO** prefix subcommands APGDE QQUIT subcommand APGDE QUIT subcommand APGDE you can enter in the WM window CMSREF ZAP DIAG, SERV ZAPTEXT DIAG, SERV COMMANDS ASSEMBLE utility file CMSREF COMMANDS CMSUT1 utility file CMSREF COMMANDS CMSUT2 utility file CMSREF

truncating CMSREF

Refer to the foldout page at the back of this book for a chart of abbreviations and their corresponding manuals.

transmitted to CMS/CP XEDIT

COMMANDS command ADMIN, CMSUG,	CMEMN (Extract_Mode_Name) CONGREF
GENCMD	CMEPLN (Extract_Partner_LU_Name)
described GENCMD	CONGREF
responses GENCMD	CMESL (Extract_Sync_Level) CONGREF
usage notes GENCMD	CMFLUS (Flush) CONGREF
COMMANDS TEXT utility file CMSREF	CMINIT (Initialize_Conversation) CONGREF
COMMD macro ADMIN	CMPTR (Prepare_to_Receive) CONGREF
COMMENT command of DMS/CMS APGDE	CMRCV (Receive) CONGREF
COMMENT control record, ZAP and ZAPTEXT	CMRTS (Request_to_Send) CONGREF
service programs	CMSCT (Set_Conversation_Type) CONGREF
format SERV	CMSDT (Set_Deallocate_Type) CONGREF
function SERV	CMSED (Set_Error_Direction) CONGREF
usage note SERV	CMSEND (Send) CONGREF
comment record, control file SERV	CMSERR (Send_Error) CONGREF
COMMENT statement ADGCMS	CMSF (Set_Fill) CONGREF
comments EXEC2, SPIUG	CMSLD (Set_Log_Data) CONGREF
description of SPIREF	CMSMN (Set_Mode_Name) CONGREF
entering GENCMD	CMSPLN (Set_Partner_LU_Name) CONGREF
how to write GENCMD, SYSCMD	CMSPTR (Set_Prepare_to_Receive_Type)
in an EXEC CMSLOT	CONGREF
in HELP text files CMSUG	CMSRC (Set_Return_Control) CONGREF
in REXX language CMSUG	CMSRT (Set_Receive_Type) CONGREF
specifying in control statement files SFSAD	CMSSL (Set_Sync_Level) CONGREF
specifying in DMSPARMS files SFSAD	CMSST (Set_Send_Type) CONGREF
specifying in POOLDEF files SFSAD	CMSTPN (Set_TP_Name) CONGREF
to identify program language SPIREF	CMTRTS (Test_Request_to_Send_Received)
COMMENTS option of EXECUPDT command	CONGREF
CMSREF	XCECSU (Extract_Conversation_Security_
COMMIT parameter	User_ID) CONGREF
DMSCLDIR (SFS Close Directory) ADRCMS	XCIDRM (Identify_Resource_Manager)
DMSCLOSE (SFS Close) ADRCMS	CONGREF
DMSCRALI (SFS Create Alias) ADRCMS	XCSCSP (Set_Conversation_Security_Password)
DMSCRDIR (SFS Create Directory) ADRCMS	CONGREF
DMSERASE (SFS Erase) ADRCMS	XCSCST (Set_Conversation_Security_Type)
DMSEXIDI (SFS Exist—Directory) ADRCMS	CONGREF
DMSEXIFI (SFS Exist—File) ADRCMS	XCSCSU (Set_Conversation_Security_User_ID)
DMSEXIST (SFS Exist) ADRCMS	CONGREF
DMSFILEC (SFS Filecopy) ADRCMS	XCSCUI (Set_Client_Security_User_ID)
DMSGRANT (SFS Grant Authority) ADRCMS	CONGREF
DMSRENAM (SFS Rename) ADRCMS	XCTRRM (Terminate_Resource_Manager)
DMSREVOK (SFS Revoke Authority)	CONGREF
ADRCMS	XCWOE (Wait_on_Event) CONGREF
SFS parameter ADRCMS	common
COMMIT WORK command of SQL APGDE	segment facility RGOS
committing	carrier TERMREF
changes to a file ADRCMS	denominator minidisks SFSAD
SFS file changes ADGCMS	dump receiver <b>DIAG</b>
communication routines	lock, GCS DIAG
CMACCP (Accept) CONGREF	storage management <b>DIAG</b>
CMALLC (Allocate) CONGREF	Common Programming Interface (CPI)
CMCFM (Confirm) CONGREF	Communications
CMCFMD (Confirmed) CONGREF	See CPI (common programming interface)
CMDEAL (Deallocate) CONGREF	communications
CMECT (Extract Conversation Type)	common service area (CSA) RGOS
CONGREF	common storage anchor blocks (CSAB) DIAG

communicating PRIMER	severing from CONGREF
between virtual machines INTRO	severing paths CONGREF
between VM/SP and workstations INTRO	PMX protocol SFPROG
system operator with VM/SP INTRO	programmable operator SFPROG
user with VM/SP INTRO	programmable operator and NCCF or NetView
with CMS INTRO	SFPROG
with CP INTRO	server CONPAO
with other computer users CMSUG	summary of VM support for CONPAO
with other virtual machines INTRO	task queues DIAG
with system operator INTRO	CMDBUF DIAG
with VM/SP CMSUG	operator reply elements (ORE) DIAG
communication	ORE (operator reply elements) DIAG
See also communication routines;	WQE (write queue elements) DIAG
communications, directory;	write queue elements (WQE) DIAG
communications, gateway	terminology CONPAO
across SNA network SAACOM	TSAF SFPROG
between programs CONPAO	with collection resource management
in collection CONPAO	system service SFPROG
in collection and network CONPAO	with an APPC program SAACOM
in single VM system CONPAO	communications
between the programmable operator and the	APPC/VM CONGREF
network SFPROG	between a VM and non-VM system CONGREF
between virtual machines SFPROG	between multiple VM systems CONGREF
checking for the programmable operator	between two collections CONGREF
SFPROG	Common Programming Interface (CPI)
controller dump	CMSMIG
obtaining a copy <b>DIAG</b>	controller
establishing SNA links SFPROG	considerations, loading <b>OPGDE</b>
example SFPROG	directory CONPAO, CMSMIG, SFSAD
inbound	description CONGREF
See connections, inbound	enabling CONPAO
interfaces of SNA SFPROG	levels CONPAO
IUCV	sample entries CONPAO
collection resource management SFPROG	SCOMDIR file CONPAO
DASD block I/O system service SFPROG	SYSPROF EXEC CONPAO
error logging system service SFPROG	system level CONPAO
message system service SFPROG	tags CONGREF
signal system service SFPROG	types CONPAO
spool system service SFPROG	UCOMDIR file CONPAO
outbound	user level CONPAO
See connections, outbound	gateway
overview of CONPAO	See also gateways
partner CONPAO	deactivating CONPAO
connecting to CONGREF	establishing CONPAO
receiving from CONGREF	in an SNA network CONGREF
sending to (SENDCNFD) CONGREF	NETDATA command CMSREF
sending to (SENDCNF) CONGREF	NOTE command CMSREF
sending to (SENDDATA) CONGREF	on a different VM system CONGREF
sending to (SENDERR) CONGREF	on the same VM system CONGREF
sending to (SENDREQ) CONGREF	RECEIVE command CMSREF

SENDFILE command CMSREF	NUCXDROP command CMSMIG
vector table, mapping ADRCMS	NUCXLOAD command CMSMIG
with programs in SNA network CMSMIG	NUCXMAP command CMSMIG
with programs in TSAF collection CMSMIG	OS/MVS simulation CMSMIG
within one VM system CONGREF	overlay structures CMSMIG
Communications Module termination notification list	QUERY BLIP command CMSMIG
ADRCMS	QUERY DISK command CMSMIG
adding entry-names ADRCMS	QUERY SEARCH command CMSMIG
deleting entry-names ADRCMS	reassembling existing programs CMSMIG
COMP	SET BLIP command CMSMIG
of DOSLIB command CMSREF	SET STORECLR command CMSMIG
option	STRINIT macro CMSMIG
of FETCH command CMSREF	SUBCOM function CMSMIG
of MACLIB command CMSREF	definition of CMSMIG
COMPACT option of DDR command CMSUG	general considerations CMSMIG
compact simple lists PRIMER	COMPID keyword of SYMPTOM subcommand
compacting tape output CMSUG	IPCSREF
COMPARE command APGDE, CMSLOT,	COMPID (keyword definition) IPCSREF
PRIMER	compid, variable
COL option CMSREF	described GENCMD, SYSCMD
description CMSREF	COMPILER command CMSLOT
to compare contents of two CMS files CMSUG	compiler switch flag ADRCMS
COMPARE function SPIREF, SPIUG	compilers CMSLOT, SPIUG
comparing	COBOL APGDE, INTRO
average in-queue time with earlier releases	devices assigned ADGCMS
ADMIN	documentation references INTRO
files CMSLOT, CMSREF, PRIMER	FORTRAN APGDE
comparison operators SPIUG	input/output assignments ADGCMS
comparisons	OS/VS COBOL INTRO
allowing approximation SPIUG	PL/I INTRO
characters SPIUG	supported by VM/SP INTRO
exact SPIUG	supported by VM/SI INVIKO
fuzzy arithmetical SPIUG	used under CMS CMSREF
numbers SPIUG	VS COBOL II INTRO
of numbers SPIREF	VS Pascal INTRO
of strings SPIREF	compile, defined INTRO
using COMPARE SPIREF	compiling APGDE
priority of characters SPIUG	a message repository file CMSREF
strings SPIUG	a program CMSLOT, PRIMER
compatibility	complete audit SFSAD
for file I/O ADGCMS	completion code
with CMS editor XEDIT	system GCSREF
compatibility group (interfaces)	user GCSREF
contents of ADGCMS, ADRCMS, CMSMIG	completion options screen APGDE
definition of ADGCMS, ADRCMS, CMSMIG	complex list format (MF = (L,addr[,label]))
compatibility, System/370	CMSIUCV macro SFPROG
conversion checklist	HNDIUCV macro SFPROG
	complex session (examples) TERMREF
BLIP processing CMSMIG data areas CMSMIG	• • • • • • • • • • • • • • • • • • • •
	complex string expression
DEBUG command CMSMIG	as target XEDITUG
ENABLE macro CMSMIG	example of XEDITUG
four-digit device addresses CMSMIG	specifying column-target as XEDIT
GETMAIN free storage CMSMIG	specifying target as XEDIT
MAINHIGH CMSMIG	complimentary copy of note CMSLOT
NUCEXT function CMSMIG	

COMPLST tag, product parameter file SERV	CONCEAL operand
component	of SET command CMSUG, GENCMD
MENU in HELP CMSUG	concepts of VM/SP INTRO
of VM/SP CMSREF, CMSUG	concurrent backups SFSAD
of VM/SP HPO INST	concurrent operation
name tag, product parameter file SERV	definition ADMIN, SYSMSG
network INTRO	condition codes
composing notes CMSUG	ACCEPT CONGREF
compound symbols	ADDRQRY function SFPROG
description of SPIUG	CONNECT CONGREF
for repeated substitution SPIUG	DCLBFR CONGREF
use of a period SPIUG	DESCRIBE CONGREF
compound variable	DIAGNOSE code
description of SPIREF	XX'A0' SFPROG
setting new value SPIREF	XX'BC' SFPROG
COMPRESS option	XX'B4' SFPROG
of EXECUPDT command CMSREF	XX'B8' SFPROG
of LOADLIB command CMSREF	XX'DC', subcode XX'00' SFPROG
COMPRESS subcommand of XEDIT command	XX'DC', subcode XX'01' SFPROG
XEDIT, XEDITUG	XX'D0' SFPROG
example of XEDIT	XX'EC' SFPROG
compressing	XX'0C' SFPROG
DOSLIB files ADGCMS	XX'00' SFPROG
members of a MACLIB ADGCMS	XX'08' SFPROG
records using SET PACK XEDIT	XX'10' SFPROG
COMPSWT macro	XX'14' SFPROG
OFF operand ADRCMS	XX'18' SFPROG
ON operand ADRCMS	XX'28' SFPROG
turning compiler switch flag on or off	XX'3C' SFPROG
ADRCMS	XX'30' SFPROG
computer identification CMSLOT	XX'34' SFPROG
COMSRV directory option CONPAO	XX'38' SFPROG
COMSRV parameter	XX'4C' SFPROG
ACCEPT function CONGREF	XX'58' SFPROG
CONCAT option of FILEDEF command	XX'6C' SFPROG
APGDE, CMSREF	XX'64' SFPROG
concatenating SPIUG	XX'7C' SFPROG
files XEDITUG	XX'78' SFPROG
in typewriter mode XEDITUG	XX'80' SFPROG
using GET XEDIT	XX'84' SFPROG
using PUT XEDIT	XX'94' SFPROG
using PUTD XEDIT	FINDSYS function SFPROG
of lines during string target search XEDIT	IUCV
of strings SPIREF	ACCEPT SFPROG
words EXEC2	CONNECT SFPROG
concatenation operator SPIUG	DECLARE BUFFER SFPROG
blank SPIREF	DESCRIBE SFPROG
SPIREF	PURGE SFPROG
CONCEAL directory option CONPAO	QUERY SFPROG
	OTHERCE SEDDOC

Refer to the foldout page at the back of this book for a chart of abbreviations and their corresponding manuals.

RECEIVE SFPROG	sdisk parameter GCSREF
REJECT SFPROG	sysid parameter GCSREF
REPLY SFPROG	sysname parameter GCSREF
RESUME SFPROG	tabsize parameter GCSREF
RETRIEVE BUFFER SFPROG	ydisk parameter GCSREF
SEND SFPROG	configuration ADMIN, PLNGDE
SET CONTROL MASK SFPROG	aid PLNGDE
SET MASK SFPROG	defining device INTRO
SEVER SFPROG	DLS support mode ADMIN, PLNGDE
TEST COMPLETION SFPROG	DLSE support mode ADMIN, PLNGDE
TEST MESSAGE SFPROG	factors influencing performance
LOADSYS function SFPROG	VM under VM RGOS
PURGESYS function SFPROG	VSE RGOS
QUERY CONGREF	file SECUR
RECEIVE CONGREF	file, GCS DIAG
RTRVBFR CONGREF	building INST
SENDCNF CONGREF	planning INST
SENDCNFD CONGREF	for VM/IS INTRO
SENDDATA CONGREF	configuring
SENDERR CONGREF	GCS INST
SENDREQ CONGREF	starter system INST
SETCMASK CONGREF	configuring I/O devices for an MP system
SETMASK CONGREF	See Diagnosis Reference
SEVER CONGREF	CONFIRM state CONGREF, SAACOM
TESTCMPL CONGREF	· · · · · · · · · · · · · · · · · · ·
	CONFIRM synchronization level CONGREF
TESTMSG CONGREF	Confirm (CMCFM) routine CONGREF
conditional loops SPIREF	call description SAACOM
description of SPIUG	example flow using SAACOM
DO FOREVER instruction SPIUG	Confirm-Deallocate state SAACOM
DO UNTIL instruction SPIUG	Confirm-Send state SAACOM
DO WHILE instruction SPIUG	confirmation processing
LEAVE instruction SPIUG	Confirm call SAACOM
conditional statements EXEC2	Confirmed call SAACOM
example EXEC2	example flow SAACOM
syntax EXEC2	confirmation, request CONGREF
&IF control statement EXEC2	See also SENDCNF function of APPC/VM
&LOOP control statement EXEC2	Confirmed (CMCFMD) routine CONGREF
conditionally displaying text CMSUG	call description SAACOM
conditions	example flow using SAACOM
determining for AVS CONPAO	CONFIRMED, APPC verb
ERROR SPIREF	abend conditions CONGREF
HALT SPIREF	mapped with APPC/VM CONGREF
NOVALUE SPIREF	parameters CONGREF
saved during subroutine calls SPIREF	state changes CONGREF
SYNTAX SPIREF	CONFIRM, APPC verb
trapping of	abend conditions CONGREF
See SIGNAL instruction	mapped with APPC/VM CONGREF
VM's DIAG	parameters CONGREF
sources that describe DIAG	state changes CONGREF
CONFIG macro GCSREF	CONMODE operand
description GCSREF	of TERMINAL command GENCMD
dumpvm parameter GCSREF	conmode 3270
maxvm parameter GCSREF	restrictions PLNGDE
recvm parameter GCSREF	

## CONNECT resources, authorization to CONPAO connection complete external interrupt in IUCV authorizing IUCV directory control statement PLNGDE connect authority, in SQL/DS levels of SECUR connection complete interrupt CONGREF CONNECT function of IUCV SFPROG format CONGREF parameter descriptions CONGREF connection pending external interrupt in IUCV parameter list format SFPROG **SFPROG** return codes CONGREF connection pending interrupt CONGREF contents CONGREF to the DASD block I/O system service SFPROG to the signal system service SFPROG format CONGREF to the SPOOL system service SFPROG connection quiesced external interrupt in IUCV trace table entry format SFPROG **SFPROG** using SFPROG connection request CONNECT function of APPC/VM macro identifying resource name in CONPAO CONGREF indicating resource name in CONPAO communication servers CONGREF connection resumed external interrupt in IUCV completion CONGREF **SFPROG** condition codes and return codes CONGREF connection severed external interrupt in IUCV mapped with APPC CONGREF **SFPROG** parameter descriptions CONGREF connections parameter list CONGREF inbound program exceptions CONGREF activating CONPAO return codes CONGREF deactivating CONPAO state changes CONGREF through dedicated private gateway to communication partner CONGREF (example) CONPAO use in sample user program CONGREF through global gateway (example) CONNECT state CONGREF **CONPAO** connecting through private gateway (example) a window to a virtual screen CMSREF **CONPAO** DASD for CP access and control SYSCMD to global resource (example) CONPAO LUs CONGREF to global/local resource CONPAO previously unconnected communication lines to private resource CONPAO **SYSCMD** to private resource (example) CONPAO real device to virtual machine SYSCMD outbound remote terminals **GENCMD** activating CONPAO virtual channel-to-channel adapters GENCMD deactivating CONPAO workstations to VM/SP INTRO locally known name CONPAO connecting to LU name qualifier CONPAO target LU name CONPAO gateways, authorization to CONPAO private resource server virtual machines through gateway (example) CONPAO **CONPAO** to resource (example) CONPAO to file pools programs allowed by ENROLL PUBLIC SFSAD for private resources CONGREF authorizing users for SFSAD in an SNA network CONGREF on a different VM system CONGREF description of SFSAD on the same VM system CONGREF effect of DELETE PUBLIC on SFSAD overview CONGREF effect of FORCE command on SFSAD resource manager CONGREF estimating number required SFSAD \*IDENT CONGREF limiting scope with start-up parameters

Refer to the foldout page at the back of this book for a chart of abbreviations and their corresponding manuals.

\*IDENT to revoke a resource CONGREF

**SFSAD** 

severing at shutdown SFSAD	reading lines from a terminal ADGCMS
when established SFSAD	retrieving messages from a buffer ADGCMS
terminal TERMREF	writing lines from a terminal ADGCMS
connectivity ADRCMS	log DIAG, IPCSREF
See also communication	creating file from CMSUG
ACF/VTAM GIM	definition of <b>DIAG</b>
APPC GIM	printing CMSUG
AVS GIM	produced by CMS batch facility CMSUG
TSAF GIM	sample, TSAF DIAG
Connectivity Facilities on VM/SP	TSAF CONPAO
APPC INTRO	messages
APPC/VM VTAM Support (AVS) INTRO	after VM/SP HPO initialization OPGDE
applications INTRO	modifying spool file GENCMD
CPI Communications INTRO	operator SFSAD
needs of INTRO	output spooling TERMREF
TSAF INTRO	output spooling for display terminal CMSUG
Connectivity Program Control Block	primary
See CPRB (connectivity programming request	description OPGDE
block)	disabling OPGDE
CONS operand	reading from with PULL SPIREF
of RIOGEN macro PLNGDE	services ADRCMS
considerations	accessing, using CONSOLE macro ADRCMS
control switch assist RGOS	CMS full-screen ADRCMS
for coding the IOCP source file PLNGDE	OPEN function, format ADRCMS
for paging storage ADMIN	sheet, annotating GENCMD
for virtual = real performance option OPGDE	single SFPROG
for windowing and full-screen CMS CMSUG	single console image facility INTRO
spooling OPGDE	spooling INTRO
when using extended storage-key support, storage	stack APGDE, INTRO, SPIUG, XEDITUG
and processor use	clearing CMSREF
See Diagnosis Reference	used by PARSE XEDIT
console INTRO	used by READ XEDIT
alternate	used by SI XEDIT
defining in RIOGEN macro PLNGDE	used by SI prefix macro XEDIT
description OPGDE	used by STACK XEDIT
selecting OPGDE	used by TRANSFER XEDIT
constants, GCS DIAG	support DIAG
controlling spooling GENCMD	supported by VM/SP TERMREF
defining real system console PLNGDE	system
definition OPGDE, TERMREF	description OPGDE
disconnected INTRO	terminal input buffer
disconnecting from virtual machine GENCMD	clearing CMSREF
function TERMREF	terminating input/output GENCMD
adding ADMIN	usage by system operator INTRO
virtual SFPROG	virtual console management INTRO
input	writing to with SAY SPIREF
procedures OPGDE	Console Communication Service (CCS) GCSREF,
to Format/Allocate program ADMIN,	INTRO
SFPROG	example of coding an SNA controller <b>PLNGDE</b>
interrupts, handling ADGCMS	CONSOLE directory control statement INTRO,
I/O ADGCMS	PLNGDE
displaying messages at your terminal	considerations
ADGCMS	MVS stage 1 input RGOS
full screen I/O ADGCMS	VM under VM RGOS

definitions writing to a screen ADGCMS MVS virtual machine RGOS writing your own channel programs ADGCMS VM under VM RGOS CONSOLE operand VSE RGOS of CLOSE command GENCMD operands PLNGDE of DEFINE command GENCMD of OUERY VIRTUAL command GENCMD class PLNGDE devtype PLNGDE of SPOOL command GENCMD userid PLNGDE constant symbols SPIREF vaddr PLNGDE constants, altering CONSOLE macro with LOAD command CMSREF accessing CMS full-screen console services CONT operand **ADRCMS** of SPOOL command CMSUG, GENCMD basic functions ADGCMS content addressable storage SPIREF building the CCW (channel command word) contention CONPAO **ADRCMS** loser CONPAO checking device error status ADRCMS winner CONPAO closing paths ADGCMS winner polarity, changing CONPAO displaying and retrieving messages ADGCMS CONTENTS macro GCSREF **EXCP** function **ADRCMS** description GCSREF handling console interrupts ADGCMS end parameter GCSREF issuing DIAGNOSE code X'58' ADRCMS ep parameter GCSREF issuing SIO instructions ADRCMS name parameter GCSREF mapping information returned by ADRCMS ol parameter GCSREF MODIFY function ADRCMS start parameter GCSREF EXIT = operand ADRCMS contents of a save area GCSREF RESET = operand ADRCMS UWORD = operand ADRCMS communications directory file CONPAO modifying a path definition ADGCMS feature tape for a national language SFPROG obtaining information about paths ADGCMS \$SERVER\$ NAMES file CONPAO OPEN function ADRCMS real storage, displayed SYSCMD BUFFER = operand ADRCMS continuation ERROR = operand ADRCMS character SPIREF RESET = operand ADRCMS on COPYFILE specification list CMSREF opening a path to a console ADGCMS on COPYFILE translation list CMSREF overview ADGCMS of a clause SPIUG performing 3270 I/O operations ADRCMS of clauses SPIREF QUERY function ADRCMS of data for display SPIREF BUFFER = operand ADRCMS of expression in SAY instruction SPIUG ERROR = operand ADRCMS CONTINUE in SQL APGDE format ADRCMS CONTINUE option of SCRIPT command READ function ADRCMS **CMSLOT, PRIMER** BUFFER = operand ADRCMS continuous format ADRCMS reading of file GENCMD OPTIONS = operand ADRCMS spooling CMSUG reading from a screen ADGCMS typing XEDIT WAIT function ADRCMS Continuously Executing Transfer Interface (CETI) WRITE function ADRCMS group, dedicating CONPAO BUFFER = operand ADRCMS control OPTIONS = operand ADRCMS conventions for passing GCSREF conventions for receiving GCSREF

control blocks	using BACKUP operator command SFSAD
CMS, relationship DIAG	using FILESERV BACKUP SFSAD
in CP	corruption of SFSAD
RCHBLOK DIAG	restoring SFSAD
RCUBLOK DIAG	saving old backups for SFSAD
RDEVBLOK DIAG	verification of SFSAD
relationships DIAG	CONTROL ddname SFSAD
VCHBLOK DIAG	control (CNTRL) file
VCUBLOK DIAG	AGWSP
VDEVBLOK DIAG	contents SERV
VMBLOK DIAG	function SERV
DMKRIO, defining PLNGDE	ATSSP
examining for MVS problems RGOS	contents SERV
GCS DIAG	function SERV
mappings	used in GENTSAF EXEC procedure SERV
CQYSECT macro ADRCMS	AUX record
EPLIST macro ADRCMS	format SERV
EXTUAREA macro ADRCMS	function SERV
for DMSQLIMA routine SFSAD	parameters SERV
FSCBD macro ADRCMS	AVS SERV
FSTD macro ADRCMS	CMS
of DMSRDCAT routine SFSAD	DMSMSP SERV
SCBLOCK macro ADRCMS	DMSSP SERV
SGMTEXIT macro ADRCMS	comment record
SHVBLOCK macro ADRCMS	format SERV
simulated by CMS/DOS ADGCMS	CP
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types VSE symposison ADCOMS	DMKH60 SERV
VSE supervisor ADGCMS	DMKH60A SERV
used by CMS/DOS routines ADGCMS	DMKH60M SERV
control buffer CONGREF	DMKH60MT SERV
control character	DMKH60T SERV
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defining XEDIT	contents SERV
stacking it XEDIT	function SERV
control data SFSAD	defined by CNTRL tag in product parameter
backing up SFSAD	file SERV
backups	DMKSP
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at shutdown SFSAD	function SERV
BACKUP operator command SFSAD	DMKSPA
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contents of SFSAD	function SERV
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creating SFSAD	contents SERV
determining frequency of SFSAD	function SERV
during shutdown SFSAD	DMKSPM
FILESERV BACKUP command SFSAD	contents SERV
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commands SFSAD	contents <b>SERV</b>
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started automatically SESAD	function SEDV

temporary file used during SFSAD

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contents SERV	CCWs requiring DEVCTL or SYSCTL
function SERV	ADMIN
DMSMSP SERV	DASDOPT directory control statement
contents SERV	ADMIN
function SERV	DEVCTL ADMIN
DMSSP	for channel programs (3880s and 3990s)
contents SERV	ADMIN
function SERV	how to specify ADMIN
function SERV	NOCTL ADMIN
GCS SERV	SYSCTL ADMIN
IPCS SERV	control minidisk
MACS record	defining virtual device address of SFSAD
format SERV	description of SFSAD
function SERV	determining allocation for SFSAD
parameters SERV	effect of FILESERV MINIDISK on SFSAD
records SERV	increasing the size of SFSAD
AUX SERV	maximum size of SFSAD
comment SERV	minimum recommended size of SFSAD
MACS SERV	placement of SFSAD
UPDT SERV	recovery from inconsistencies on SFSAD
TSAF SERV	replacing SFSAD
UPDT record	verification of SFSAD
format SERV	CONTROL parameter
function SERV	CONNECT CONGREF
parameters SERV	of DCLBFR CONGREF
used in GENTSAF EXEC procedure SERV	of ISPF APGDE
used in PRELOAD command procedure SERV	control paths CONGREF
used in VMFASM EXEC procedure SERV	in IUCV SFPROG
used in VMFHASM EXEC procedure SERV	control program (CP)
used in VMFLOAD command procedure	See CP (control program)
function SERV	control program (CP) commands
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used in VMFNLS EXEC procedure SERV	control program, 370X SFPROG
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control files	ZAP service program SERV
description ADGCMS	BASE SERV
for CSL ADGCMS	COMMENT SERV
LANGGEN SFPROG	DUMP SERV
example SFPROG	END SERV
updating SFPROG	LOG SERV
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example SFPROG	REP SERV
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CONTROL service setting APGDE	SYSPRINT ADMIN
CONTROL services of ISPF APGDE	OPTION PLNGDE
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program; directory control statements	REPLACE statement ADGCMS
ACIGROUP ADMIN, PLNGDE	sample directory
ACCOUNT PLNGDE	3350 PLNGDE
APPCPASS PLNGDE	3375 PLNGDE
CLASS ADMIN, INTRO, PLNGDE	3380 PLNGDE
CLASS OVERRIDE INTRO	3380-E4 PLNGDE
COMMENT statement ADGCMS	338-K4 PLNGDE
CONSOLE INTRO, PLNGDE	SCREEN PLNGDE
DASDOPT ADMIN, PLNGDE	SEQUENCE statement ADGCMS
DEDICATE PLNGDE	SPECIAL PLNGDE
DIRECTORY PLNGDE	SPOOL PLNGDE
DDR ADMIN	SYSAFFIN PLNGDE
DDR (DASD DUMP/Restore)	used by UPDATE command ADGCMS
INPUT ADMIN	USER ADMIN, INTRO, PLNGDE
OUTPUT ADMIN	&ARGS EXEC2
DEDICATE INTRO	&BEGPRINT EXEC2
DELETE statement ADGCMS	&BEGSTACK EXEC2
description of EXEC2	&BEGTYPE EXEC2
directory PLNGDE	&BUFFER EXEC2
for access method services CMSREF	&CALL EXEC2
for FILEPOOL FORMAT AUDIT SFSAD	&CASE EXEC2
for FILESERV GENERATE SFSAD	&COMMAND EXEC2
for FILESERV GENERATE SFSAD	&DUMP EXEC2
Format/Allocate program ALLOCATE ADMIN	&ERROR EXEC2
	&EXIT EXEC2
FORMAT ADMIN	&GOTO EXEC2
LABEL ADMIN	&IF EXEC2
in AMSERV file ADGCMS	&LOOP EXEC2
INCLUDE PLNGDE	&PRESUME EXEC2
INSERT statement ADGCMS	&PRINT EXEC2
IPL PLNGDE	&READ EXEC2
IUCV CONPAO, PLNGDE	&RETURN EXEC2
examples CONPAO	&SKIP EXEC2
for gateways CONPAO	&STACK EXEC2
gateway CONPAO	&SUBCOMMAND EXEC2
gatewayid CONPAO	&TRACE EXEC2
resource CONPAO	&TRUNC EXEC2
resourceid CONPAO	&TYPE EXEC2
syntax for gateways CONPAO	&UPPER EXEC2
syntax for global/local resources CONPAO	control switch assist RGOS
TSAF virtual machine CONPAO	considerations RGOS
userid CONPAO	extensions RGOS
*CRM CONPAO	preferred machine assist RGOS
*IDENT CONPAO	of preferred machine assist feature GENCMD,
LINK PLNGDE	OPGDE, SYSCMD
LOAD PLNGDE	starting RGOS
MDISK ADMIN, INTRO, PLNGDE	control terminal output IPCSREF
MINIOPT ADMIN, PLNGDE	control variable SPIREF, SPIUG
multiple IUCV CONPAO	

control words new, preventing through a gateway CONPAO examples EXEC2 path status between VTAM and VM SCRIPT INTRO **CONPAO** controlled loops SPIREF security (APPC/VM) CMSMIG controllers, network SECUR security levels controlling and gateways CONPAO a CP trace DIAG description of levels CONPAO a terminal session, summary of commands used specified in communications directory entry GENCMD, OPGDE, SYSCMD **CONPAO** VM implementation of CONPAO access **SECUR** starting an APPC CONGREF access to a server machine SFSAD amount of pageable storage start-up request SAACOM used for interactive buffer ADMIN states CONGREF, SAACOM authorization SFPROG synchronization and control I/O functions GENCMD Confirm call SAACOM printed output Confirmed call SAACOM VM under VM RGOS Flush call SAACOM VSE RGOS Prepare\_To\_Receive call SAACOM system in a virtual machine GENCMD Request To Send call SAACOM the CMS batch facility OPGDE Send Error SAACOM virtual machine GENCMD Test Request To Send Received virtual machine options SYSCMD **SAACOM** 3270 display terminal GENCMD transition from a state SAACOM 3704/3705/3725/3745 Communications Controller types SAACOM **OPGDE** overview CONGREF conventions EXEC2 conversation characteristics for formatting macros GCSREF comparison of defaults SAACOM for passing and receiving control GCSREF conversation type for passing control GCSREF extract SAACOM for receiving control GCSREF possible values SAACOM macro coding ADRCMS set SAACOM notational CMSREF deallocate\_type notational for HELP CMSUG possible values SAACOM of notation **XEDIT** set SAACOM conversation CONGREF default values SAACOM accept SAACOM set by Accept\_Conversation SAACOM accounting record, types CONPAO set by Initialize Conversation SAACOM allocate SAACOM description SAACOM APPC CONGREF error\_direction basic SAACOM possible values SAACOM block for AVS IPCSREF set SAACOM characteristics fill See conversation characteristics possible values SAACOM deactivating CONPAO set SAACOM deallocate SAACOM how to examine SAACOM description CONPAO, SAACOM integer values SAACOM examples SAACOM log data initialize SAACOM possible values SAACOM

Refer to the foldout page at the back of this book for a chart of abbreviations and their corresponding manuals.

mapped CMSMIG, SAACOM

set SAACOM

mode_name	hexadecimal to character SPIREF
extract SAACOM	hexadecimal to decimal SPIREF
possible values SAACOM	of dump file IPCSREF
set SAACOM	of SYMPTOM SUMMARY file IPCSREF
modifying SAACOM	stages, overview of CMSMIG
naming conventions SAACOM	System/370 compatibility
overview SAACOM	conversion checklist CMSMIG
partner_LU_name	definition of CMSMIG
extract SAACOM	general considerations CMSMIG
possible values SAACOM	370-XA exploitation
set SAACOM	definition of CMSMIG
prepare_to_receive	general considerations CMSMIG
possible values SAACOM	370-XA toleration
set SAACOM	conversion checklist CMSMIG
pseudonyms SAACOM	definition of CMSMIG
receive_type	general considerations CMSMIG
possible values SAACOM	CONVERT command IPCSREF
set SAACOM	all conversion IPCSREF
return_control	error message IPCSREF
possible values SAACOM	format IPCSREF
set SAACOM	response IPCSREF
send_type	usage notes IPCSREF
possible values SAACOM	CONVERT COMMANDS command
set SAACOM	description CMSREF
sync_level	examples CMSREF
extract SAACOM	format CMSREF
possible values <b>SAACOM</b>	messages CMSREF
set SAACOM	operands
TP_name	ALL CMSREF
possible values <b>SAACOM</b>	CHECK CMSREF
set SAACOM	FIFO CMSREF
viewing SAACOM	fn ft fm CMSREF
conversational, defined TERMREF	LIFO CMSREF
conversational monitor system (CMS)	OUTMODE CMSREF
See CMS (conversational monitor system)	STACK CMSREF
conversational monitor system (CMS) commands	SYSTEM CMSREF
See CMS (conversational monitor system)	USER CMSREF
commands	usage notes CMSREF
conversation_type characteristic	converting
extract SAACOM	DLCS files
possible values SAACOM	checking for DLCS coding errors CMSREF
set SAACOM	converting for the parsing facility CMSREF
conversion	example CMSREF
between hexadecimal and decimal characters	from an EXEC CMSREF
SPIUG	from XEDIT CMSREF
character to decimal SPIREF	output files CMSREF
character to hexadecimal SPIREF	utility files CMSREF
decimal to character SPIREF	file to a HELP file CMSUG
decimal to hexadecimal SPIREF	fixed-length file to variable-length format
formatting numbers SPIREF	CMSUG
function SPIREF	HELP files to uppercase INST
TUNCTION DACKAGES SPIRKE	

message repository files converting into internal form CMSREF example CMSREF output files CMSREF routing tables SFPROG variable-length file to fixed-length format **CMSUG** wuerror information ADRCMS convid, variable described GENCMD, SYSCMD CONVIPCS EXEC IPCSREF error detection IPCSREF error message explanation IPCSREF PVM help files IPCSREF RSCS help files IPCSREF CONWAIT command description CMSREF using CMSREF CON1ECB format ADRCMS COPIES function SPIREF, SPIUG copies of notes, keeping CMSLOT number of printed CMSLOT **COPY** file type usage in CMS CMSUG filetype adding to MACLIBs CMSREF function on display terminals CMSUG operand of CP SPOOL command CMSUG option of LOADLIB command CMSREF COPY command APGDE, CMSLOT, TERMREF COPY command of DMS/CMS APGDE COPY control statement of DDR (DASD DUMP/Restore) ADMIN COPY EUDCOBOL statement of DMS/CMS **APGDE** COPY files APGDE adding to MACLIBs ADGCMS COPY filetype APGDE COPY function control statement, DDR program **SFPROG** COPY in typewriter mode XEDITUG copy modification description for 3800 printer OPGDE 3800 printer ADMIN COPY operand of CHANGE command SYSCMD COPY subcommand of XEDIT command APGDE, SPIUG, XEDIT

COPYFILE command CMSMIG, CMSLOT, CMSREF, CMSUG, PRIMER APPEND option CMSREF changing file mode numbers CMSUG character translations CMSREF copying files CMSUG creating small files from large one CMSUG EBCDIC option CMSREF examples CMSREF, INTRO FILL option CMSREF FOR option CMSREF FRLABEL option CMSREF FROM option CMSREF incompatible options CMSREF LOWCASE option CMSREF LRECL option CMSREF NEWDATE option CMSREF **NEWFILE option CMSREF** NOPROMPT option CMSREF NOSPECS option CMSREF NOTRUNC option CMSREF NOTYPE option CMSREF OLDDATE option CMSREF OVLY option CMSREF PACK option CMSREF PROMPT option CMSREF RECFM option CMSREF REPLACE option CMSREF, CMSUG SINGLE option CMSREF specification list CMSREF SPECS option CMSREF TOLABEL option CMSREF TRANS option CMSREF TRUNC option CMSREF TYPE option CMSREF UNPACK option CMSREF UPCASE option CMSREF usage CMSREF used to change record formats of files CMSUG copying a file CMSLOT, CMSREF, PRIMER with COPYFILE command CMSUG within a file pool ADRCMS

a file pool SFSAD

a string SPIUG

a string using COPIES SPIREF

block of lines XEDIT

books from VSE source statement libraries **ADGCMS** 

Refer to the foldout page at the back of this book for a chart of abbreviations and their corresponding manuals.

example of XEDIT

contents of a display screen CMSUG	SNA products
DOS catalogued procedure ADGCMS	description SERV
DOS files into CMS files ADGCMS	example SERV
files, from one device to another CMSUG	object code SERV
files, to a directory CMSUG	tape format SERV
from tape to minidisk or SFS directory	corrupt control data SFSAD
CMSUG	corrupt storage group, recovering from SFSAD
lines CMSLOT, PRIMER	CORTABLE, specifying size RGOS
in typewriter mode XEDITUG	CORTABLE subcommand of IPCSSCAN
using C prefix subcommand XEDIT,	command
XEDITUG	description IPCSREF
using COPY XEDIT	example output IPCSREF
members of MACLIBs ADGCMS	format IPCSREF
members of OS/MVS partitioned data set with	functional category IPCSREF
FILEDEF ADGCMS	messages IPCSREF
modules from VSE library or SYSIN tapes	operand IPCSREF
ADGCMS	responses IPCSREF
modules from VSE relocatable libraries	usage notes IPCSREF
ADGCMS	COUNT function of SQL APGDE
OS/MVS data sets into CMS files ADGCMS	count operand of TRACE subcommand IPCSREF
sample files SFSAD	COUNT subcommand of the PER command
spool files CMSUG	DIAG, GENCMD
the physical screen to a CMS file CMSREF	COUNT subcommand of XEDIT command
virtual screen data to a CMS file CMSREF	XEDIT, XEDITUG
VSAM files into CMS disk files ADGCMS	example of XEDIT, XEDITUG
COPYKEY option	count-key-data DASD
of SET ENTER XEDIT	COPY restriction ADMIN, SFPROG
of SET PAn XEDIT	definition ADMIN, SYSMSG
of SET PFn XEDIT	formatting cylinder volumes ADMIN, SFPROG
COPY = operand	label requirements OPGDE
CMSCALL macro ADRCMS	moving data with tape dump SFPROG
	record count area
COPY[*]nnn operand	
dest2 operand	initializing ADMIN
of CHANGE command GENCMD	record count area initializing SFPROG
of SPOOL command GENCMD	tape dump
COR descriptor file	movement of data ADMIN
example SERV	counter data
function SERV	in the monitor records SFSAD
ore image	in the QUERY FILEPOOL STATUS command
libraries, using in CMS/DOS ADGCMS	SFSAD
on a DOS disk ADGCMS	counting
VSE libraries ADGCMS	a string XEDIT
CO-REQ statement, update file SERV	subcommand executions XEDIT
orrecting	words in a string SPIREF
lines as you enter them CMSUG	COUPLE command CMSUG, GENCMD, RGOS
problems related to page migration ADMIN	described GENCMD
typing mistakes PRIMER	operands
your program SPIUG	userid GENCMD
forrective fixes, description INTRO	vaddr <b>GENCMD</b>
corrective service	responses GENCMD
definition SERV	usage notes GENCMD
procedure SERV	COVERLAY subcommand of XEDIT command
	XEDIT, XEDITUG

CP Directory program	examining control blocks DIAG
creating stand-alone version on minidisk SERV	identifying and locating pageable module
creating stand-alone version on tape SERV	DIAG
CP dump option of IPCSPRT command IPCSREF	reason for abend DIAG
CP FRET Trap DIAG	register use convention <b>DIAG</b>
control files INST	save area convention DIAG
description DIAG	VMDUMP records DIAG
examples DIAG	specifying output device DIAG
installing INST	adjustments for a file pool server SFSAD
MACLIBs INST	assist
overview INST	attached processor application OPGDE
text files INST	supported processors OPGDE
CP ID card	using SET command SYSCMD
description OPGDE	assist ADMIN
usage OPGDE	basic description CMSREF, CMSUG
CP operand	building nucleus
of EXECIO command CMSREF	existing VM system procedure INST
of SEND COMMAND GENCMD	installing new system national language
of SET command SYSCMD	INST
CP READ terminal status notice APGDE, PRIMER	PUT/COR procedure SERV
on display terminal CMSUG	Starter System procedure INST
CP SEND command SFSAD	using VMFBLD SERV
CP SET DUMP command DIAG	using VMFLOAD SERV
CP SPOOL CONSOLE command DIAG	checklist for reporting abends DIAG
CP STCP command DIAG	checklist for wait state DIAG
CP subcommand of XEDIT command XEDIT,	coding conventions ADMIN
XEDITUG	command INTRO
CP TRACE command DIAG	command information CMSUG
CP (control program) GIM, PRIMER, SPIUG,	commands
TERMREF	See CP (control program) commands
abend DIAG	communicating with INTRO
message DIAG	considerations for migrating to full-screen
abend codes SYSMSG	CMS CMSUG
action for SYSMSG	console function mode GENCMD, XEDIT
codes SYSMSG	console functions
information collection SYSMSG	how to add one ADMIN
reason for SYSMSG	control block addresses
recovering from the abend SYSMSG	finding real device's SYSCMD
reporting the abend SYSMSG	finding user's SYSCMD
<u>.                                     </u>	finding virtual device's SYSCMD
system operator action SYSMSG	_
system programmer action SYSMSG	control blocks, locating in storage <b>DIAG</b> control file
abend dump	
description of type DIAG	DMKH60 SERV
dumping to DASD DIAG	DMKH60A SERV
dumping to printer DIAG	DMKH60M SERV
dumping to tape DIAG	DMKH60MT SERV
printing from tape DIAG	DMKH60T SERV
reading DIAG	control files used in CP options
collecting information DIAG	FRET TRAP INST
debugging an AP/MP system DIAG	

data	loading national language files INST
collecting in CPTRAP file DIAG	loadlists used for CP options INST
recording in the CPTRAP file DIAG	macros
DATA entries, collecting in CPTRAP file	FCB (forms control buffer) ADMIN
DIAG	FOB (font offset buffer) ADMIN
definition ADMIN, APGDE, INTRO, SYSMSG	FOBCCW ADMIN
device classes, types, models, and features	GETMAIN RGOS
(DIAGNOSE code X'24') SFPROG	NAME3800 ADMIN
directory	PIB ADMIN
function INST	PIBCCW ADMIN
loading sample files INST	RCHANNEL RGOS
tailoring INST	RCTLUNIT ADMIN
using DISKMAP EXEC to check changes	RDEVICE ADMIN
INST	SYSACNT ADMIN
directory entry	SYSCOR ADMIN
See directory	SYSJRL ADMIN
disabled wait <b>DIAG</b>	SYSMIH ADMIN
disk formats ADMIN	SYSMON ADMIN
enabled wait DIAG	SYSPAG ADMIN
entries in CPTRAP spool file DIAG	SYSXSTOR ADMIN
environment APGDE, SPIUG	UCC ADMIN
environment, entering CMSUG	UCCCCW ADMIN
error messages SYSMSG	UCS (universal character set) ADMIN
facilities for debugging programs INTRO	UCSCCW ADMIN
free storage, trapping improper use <b>DIAG</b>	message INTRO
FRET TRAP option INST	message repository SFPROG
general description INST, INTRO	DASD space for SFPROG
general user command summary OPGDE	saving with DIAGNOSE code X'CC'
in AP and MP modes, multiprocessor, dyadic,	SFPROG
and dual processor environments	monitor records generated by SFS SFSAD
See Diagnosis Reference	nucleus
interface to CPTRAP DIAG	building INST
setting up DIAG	defining more than one INST
internal trace table <b>DIAG</b>	defining SYSNUC OPGDE
allocated size <b>DIAG</b>	DMKSYS ASSEMBLE file OPGDE
description DIAG	end of resident nucleus address SERV
entry format <b>DIAG</b>	FRET TRAP option INST
IUCV entry DIAG	IPL procedure improvements <b>OPGDE</b>
monitoring events SYSCMD	IPLing from tape INST
obtaining a copy of <b>DIAG</b>	load map INST
poster DIAG	options INST
restart tracing <b>DIAG</b>	<del>-</del>
specifying size DIAG	protecting spool files <b>OPGDE</b>
suppress tracing <b>DIAG</b>	saving IPLable copy on tape INST, SERV
traced events <b>DIAG</b>	V = R option INST nucleus, building a new
use DIAG	VM under VM RGOS
introductory description INTRO	VSE RGOS
issuing commands to SPIREF load address SERV	nucleus considerations
	MVS guest RGOS
loadlist SEDV	VM under VM RGOS
requirements SERV	VSE RGOS
load map (CPNUC MAP) IPCSREF	options INST
printing INST	pageable nucleus
saving INST	locking SYSCMD
loading code from product tape INST	privilege classes CMSUG

processor time allocation INTRO real resource management INTRO real storage allocation INTRO restart dump obtaining a copy DIAG running operating systems INTRO spool management INTRO spooling facilities CMSUG system command summary OPGDE, SYSCMD system control file (DMKSYS) function INST loading sample files INST tailoring INST system service INTRO See also \*CRM (Collection Resource Management System Service: \*IDENT (Identify System Service) collection resource management SFPROG Console Communication INTRO DASD Block I/O INTRO, SFPROG error logging SFPROG identify SFPROG **IUCV** communication **SFPROG** Message INTRO, SFPROG message all SFPROG signal SFPROG Signal System Service INTRO SNA virtual console communication SFPROG spool SFPROG trace table MVS problem determination RGOS trace table entries recording in the CPTRAP file DIAG transmitting command to XEDIT using **OPGDE** virtual machine creation INTRO virtual = real option INST virtual storage management INTRO wait state codes SYSMSG CP (control program) commands ADMIN, CMSUG, GENCMD ACNT ADMIN, SYSCMD ADSTOP ADMIN assigning privilege classes ADMIN ATTACH ADMIN, SYSCMD AUTOLOG ADMIN, SYSCMD BACKSPAC ADMIN, SYSCMD CACHE ADMIN, SYSCMD CACHE OWN ADMIN CACHE QUERY ADMIN

CHANGE ADMIN, SYSCMD class G and ANY GENCMD classes A, B, C, D, E, F SYSCMD COMMANDS ADMIN CPTRAP SYSCMD DCP SYSCMD **DEFINE ADMIN, SYSCMD** description CMSREF, GENCMD DETACH SYSCMD DIAL used with VSCS SFPROG DISABLE SYSCMD DISPLAY ADMIN, APGDE DMCP SYSCMD DRAIN SYSCMD **ENABLE SYSCMD** entering from CP console function mode GENCMD from the virtual machine environment **GENCMD** while running GENCMD environment GENCMD, SYSCMD executing in CMS command environment CMSREF in EXEC procedure CMSREF in jobs for CMS batch facility CMSREF FLUSH SYSCMD FORCE ADMIN, SYSCMD format GENCMD, SYSCMD FREE SYSCMD GENIMAGE ADMIN **GIVE SYSCMD** HALT SYSCMD HOLD SYSCMD how a user can display which can be used how to add a command ADMIN in EXECs APGDE INDICATE ADMIN, SYSCMD class A SYSCMD class E SYSCMD INDICATE LOAD ADMIN INDICATE USER ADMIN, APGDE, **OPGDE** issued from a macro XEDITUG journaling ADMIN LINK ADMIN journaling ADMIN LOADBUF ADMIN LOCATE SYSCMD

Refer to the foldout page at the back of this book for a chart of abbreviations and their corresponding manuals. LOCK ADMIN, SYSCMD

**LOGOFF** SET PAGING ADMIN FORCE ADMIN SET PRIORITY ADMIN LOGON ADMIN SET QDROP ADMIN SET RESERVE ADMIN journaling ADMIN MESSAGE ADMIN, SYSCMD SET SASSIST ADMIN SET SASSIST OFF ADMIN MIGRATE SYSCMD MIGRATE command ADMIN SET SRM ADMIN MONITOR ADMIN, SYSCMD SET SRM IBUFF ADMIN MSGNOH SYSCMD SET SRM MHFULL ADMIN NETWORK SYSCMD SET SRM PGFULL ADMIN obtaining a reply from SPIUG SET SRM PGMTLIM ADMIN SET STBYPASS ADMIN operand commandline GENCMD SET STMULTI ADMIN ORDER SYSCMD SET VMSAVE ADMIN SETPRT ADMIN privilege class for GENCMD, OPGDE, SHUTDOWN ADMIN, OPGDE, SYSCMD **SYSCMD** PURGE SYSCMD REIPL operand ADMIN QUERY SYSCMD SMSG SFPROG class A SYSCMD SPACE SYSCMD class B SYSCMD SPMODE SYSCMD class C SYSCMD SPOOL ADMIN, OPGDE class D SYSCMD SPOOL CONSOLE START OPGDE class E SYSCMD SPTAPE SYSCMD QUERY MITIME ADMIN START ADMIN, SYSCMD QUERY PAGING ADMIN STCP ADMIN, SYSCMD QUERY PSTOR ADMIN STORE ADMIN, APGDE QUERY QDROP ADMIN structure GENCMD, SYSCMD QUERY SET ADMIN summary CMSUG, GENCMD **QUERY SRM ADMIN** summary, functional SYSCMD QUERY SRM PGMACT ADMIN suppressing messages issued by SPIUG QUERY VECTOR ADMIN, OPGDE SYSTEM CLEAR ADMIN QUERY VMSAVE ADMIN TAG ADMIN, OPGDE **QVM SYSCMD** TERMINAL BREAKIN GUESTCTL SFPROG REPEAT SYSCMD responses **GENCMD** BRKKEY SFPROG restriction of SECUR CONMODE 3270 SFPROG SAVENCP ADMIN SCRNSAVE OFF SFPROG SAVESYS SYSCMD SCRNSAVE ON SFPROG TRACE ADMIN SEND used with single console image facility **SFPROG** TRANSFER ADMIN, SYSCMD SET SYSCMD UNLOCK ADMIN, SYSCMD class A SYSCMD usage notes GENCMD class B SYSCMD used in job for CMS batch facility CMSUG class E SYSCMD used in System Product Interpreter EXECs class F SYSCMD **CMSUG** SET AFFINITY ADMIN using SPIUG SET ASSIST ADMIN VARY SYSCMD SET CPASSIST OFF ADMIN VARY OFFLINE ADMIN, OPGDE SET EMSG SFPROG VARY ONLINE ADMIN, OPGDE SET FAVORED command ADMIN WARNING SYSCMD SET MIH ADMIN when to use CMSREF SET MINWS ADMIN 3800 printer ADMIN SET MITIME ADMIN 3800 printer support ADMIN

SET NOTRANS ADMIN

CP-owned layout SRPI CKD devices macro ADGCMS, ADRCMS, APGDE, format for ADMIN **CMSMIG, SRPI** FBA devices building CPRB DSECT ADRCMS format for ADMIN DSECT = operand ADRCMS CPABEND (abend code) DIAG messages (MNOTES) ADRCMS **CPASSIST** syntax SRPI of SET command OPGDE messages (MNOTES) SRPI CPASSIST OFF operand on send reply (exit from server) SRPI of SET command ADMIN using on service request SRPI CPASSIST operand CPSIZE operand of NAMENCP macro PLNGDE of QUERY command SYSCMD of SET command SYSCMD CPSTAT (CP running status) DIAG CPCONIO operand CPT-TWX interface TERMREF of SET command GENCMD CPT-TWX restrictions TERMREF CPEREP program DIAG CPTRACE operand error recording of MONITOR command SYSCMD I/O OPGDE CPTRAP command CONPAO, DIAG, RGOS CPI (common programming interface) described SYSCMD communications CMSMIG, CONPAO DISPlay SYSCMD and LU 6.2 interface SAACOM enabling Transparent Services Access Facility calls SAACOM **SYSCMD** communication with APPC programs operands **SAACOM** activation operands SYSCMD ease of use CONGREF CLOSE SYSCMD in SNA network SAACOM DATA SYSCMD major elements SAACOM definition operands SYSCMD naming conventions SAACOM destination operands SYSCMD overview CONGREF, SAACOM DISAble SYSCMD program operating environment SAACOM DISPlay SYSCMD CPIPCS MAP IPCSREF DROp SYSCMD CPLANG operand ENable SYSCMD of QUERY command SYSCMD GT SYSCMD of QUERY (ALL) command GENCMD ID SYSCMD CPLEVEL operand IO SYSCMD of QUERY command GENCMD **NULL SYSCMD** CPLOAD EXEC SERV SET SYSCMD CPNAME operand STOP SYSCMD TO SYSCMD of NAMENCP macro PLNGDE of NAME3800 macro PLNGDE trapid SYSCMD of RDEVICE macro PLNGDE trapset SYSCMD CPNUC MAP IPCSREF TTABLE SYSCMD CPOut operand TYPE SYSCMD of SCREEN command GENCMD userid SYSCMD CPRB DSECT, building ADRCMS WRAP SYSCMD CPRB (connectivity programming request block) querying CONPAO content on entry to server (receive request) SRPI responses SYSCMD fields on exit from server SRPI summary OPGDE, SYSCMD freeing storage for SRPI syntax diagram, class C SYSCMD

	TYPE suboperands	I/O activity <b>DIAG</b>
	DATA SYSCMD	I/O activity, example <b>DIAG</b>
	GT SYSCMD	virtual machine data DIAG
	IO SYSCMD	release level conflicts DIAG
	TTABLE SYSCMD	running with microcode assist active <b>DIAG</b>
	type X'3D' record SYSCMD	server's use of SFSAD
	type X'3E' record SYSCMD	setting up the virtual machine interface <b>DIAG</b>
	usage notes SYSCMD	specifying selectivity <b>DIAG</b>
	viewing data CONPAO	spool file DIAG
CP	TRAP facility DIAG	CP entries in DIAG
	additional considerations DIAG	spool space considerations DIAG
	altering tracing DIAG	starting tracing <b>DIAG</b>
	analyzing data DIAG	trapping AVS trace table entries DIAG
	checkpointing DIAG	turning off tracing DIAG
	collecting	type DATA trap considerations DIAG
	CP DATA entries in the CPTRAP file DIAG	type DATA trap trace record size <b>DIAG</b>
	I/O activity <b>DIAG</b>	type GT trap DIAG
	trace table entries in the CPTRAP file DIAG	type IO entries in the CPTRAP file DIAG
	virtual machine data DIAG	type traps DIAG
	virtual machine data in the CPTRAP file	use with AVS DIAG
	DIAG	viewing AVS data with IPCSSCAN DIAG
		virtual machine entries in the CPTRAP file
	command DIAC	DIAG
	DL operand DIAG	
	INFILE operand DIAG	wrap file DIAG
	LOC operand DIAG	CPTRAP file
	CP DATA entries in the CPTRAP file DIAG	debugging IPCSREF
	CP/virtual machine interface error DIAG	dumping to tape IPCSREF
	data lost situations DIAG	CPTRAP operand
	debugging with DIAG	of IPCSPRT IPCSREF
	defining traps DIAG	of IPCSSCAN IPCSREF
	DISPLAY operand DIAG	of QUERY command SYSCMD
	ending tracing DIAG	CPTRAP query function, DIAGNOSE code X'EC'
	entries in the CPTRAP file DIAG	SFPROG
	examples	CPTRAP TYPE operand
	collecting CP data DIAG	of QUERY command SYSCMD
	TTABLE traps DIAG	CPTYPE operand
	type DATA trap DIAG	of NAMENCP macro PLNGDE
	type GT traps DIAG	of RDEVICE macro PLNGDE
	virtual machine interface, for type GT trap	CPU identification
	DIAG	using CP SET command RGOS
	file <b>DIAG</b>	VSE directory entry RGOS
	collecting CP data in DIAG	\$ASIPROC <b>RGOS</b>
	filtering trace entries DIAG	CPUID operand CONPAO
	logoff considerations DIAG	See also CPU identification
	migration considerations DIAG	of QUERY command GENCMD
	non-wrap file DIAG	of SET command GENCMD, SYSCMD
	obtaining CPTRAP status DIAG	cpuid, variable
	output, directing DIAG	described GENCMD, SYSCMD
	overview DIAG	CP/virtual machine interface errors DIAG
	QUERY command DIAG	CQYSECT macro ADGCMS, ADRCMS
	QUERY CPTRAP command DIAG	CRDTE operand of LABELEF command
	recording	CMSREF
	CP data in the CPTRAP file DIAG	CREATE ALIAS command CMSLOT, CMSREF,
	CP trace table entries DIAG	PRIMER

CREATE DIRECTORY command CMSLOT. CMSREF, PRIMER CREATE INDEX command of SQL APGDE CREATE LOCK command CMSLOT, CMSREF, CMSUG. PRIMER CREATE NAMEDEF command CMSREF CREATE TABLE command of SQL APGDE **CREATE VIEW** command of SQL APGDE statement in SQL APGDE CREATED output field of STAT command **IPCSREF** creating See also setting, up a callable services library (CSL) creating template files CMSMIG description CMSMIG notes and restrictions for writing CSL routines **CMSMIG** steps for creating a CSL CMSMIG a class override file ADMIN a directory CMSLOT, PRIMER a dump DIAG a file XEDITUG from a FILELIST screen PRIMER from FILELIST CMSLOT in typewriter mode XEDITUG using PUT XEDIT using PUTD XEDIT using XEDIT command CMSLOT, PRIMER, XEDIT using XEDIT subcommand XEDIT a file pool SFSAD a macro file XEDITUG a new file from an existing file SPIUG a program CMSLOT, PRIMER a program stack buffer via MAKEBUF **CMSREF** a start-up parameter file SFSAD a TSAF dump DIAG a virtual screen CMSREF a window CMSREF aliases CMSUG to files CMSUG to an alias CMSUG to another user's file CMSUG to your own file CMSUG an alias ADRCMS, PRIMER to another user's file CMSLOT, PRIMER

an AVS dump DIAG an XEDIT profile PRIMER CMS files from DOS libraries ADGCMS command HELP files CMSUG copy modifications ADMIN disk space precautions GENCMD DOSLIB files ADGCMS dumps CONPAO file from DOS disks and tapes ADGCMS file with System Product Editor CMSUG forms control buffers ADMIN graphic modifications ADMIN HELP message files CMSUG HELP text files CMSUG **HELPMENU files CMSUG** HELPTASK files CMSUG library character sets ADMIN macro libraries example in CMS/DOS ADGCMS from a DOS library ADGCMS macros for writing CSL routines **CSLENTRY CMSMIG CSLEXIT CMSMIG** CSLGETP CMSMIG menus, HELP file CMSUG modules from VSE library or SYSIN tapes **ADGCMS** named system SYSCMD notes CMSUG one spool file from many files being printed or punched CMSUG PROFILE EXEC CMSUG System Product Interpreter EXECs CMSUG the TSAF IPCS map DIAG CREPLACE subcommand of XEDIT command XEDIT, XEDITUG compared to OVERLAY XEDIT with DBCS strings XEDIT \*CRM (Collection Resource Management System Service) SFPROG answer data from the local CP SFPROG authorizing a virtual machine to connect to **CONPAO** establishing a connection SFPROG how CP broadcasts a directory request to the collection SFPROG IUCV directory entry CONPAO process requests for directory information

Refer to the foldout page at the back of this book for a chart of abbreviations and their corresponding manuals.

to your own file CMSLOT

**SFPROG** 

requesting system resource/gateway table information SFPROG	return codes SYSMSG routines
revoking a global resource or gateway SFPROG	See CSL (callable services library) routines
SEVER reason codes SFPROG	steps for creating a CSL CMSMIG
severing the connection SFPROG	VMLIB ADRCMS, ADGCMS
TSAF answering CP SFPROG TSAF communications SFPROG	CMS commands used with VMLIB routines CMSMIG
TSAF requesting local directory information	routines, description CMSMIG
SFPROG	VS COBOL II INTRO
Cross Memory Assist feature	VS FORTRAN INTRO
enabling GENCMD	VS Pascal INTRO
cross memory processing	writing routines ADGCMS
for MVS guest RGOS	CSL (callable services library) routines CMSREF
cross-memory services RGOS	accessing REXX variables ADRCMS
cryptographic algorithm SECUR	call formats for languages that support CSL
cryptographic key SECUR	ADRCMS
cryptography, definition of SECUR	calling a REXX EXEC ADRCMS
CSA (common service area) RGOS	calling SFS general functions ADRCMS
CSAB (common storage anchor blocks) DIAG	calling the CMS Extract/Replace function
CSECT (control section), definition DIAG	ADRCMS
CSECTs duplicated for LOAD command CMSREF	displaying CMSREF
CSISP CNTRL	DMSCCE (Calling a REXX EXEC) ADRCMS
contents SERV	DMSCDR (Drop a REXX Variable) ADRCMS
function SERV	DMSCGR (Get a REXX Variable) ADRCMS
CSIYTD routine DIAG	DMSCGS (Get Special REXX Values) ADRCMS
CSL (callable services library) APGDE, CMSUG,	DMSCGX (Get the Next REXX Variable)
CONGREF	ADRCMS
building libraries ADGCMS	DMSCHECK (SFS Check) ADRCMS
control files ADGCMS	DMSCLBLK (SFS Close Blocks) SFSAD
creating	DMSCLCAT (SFS Close Catalog) SFSAD
and using ADGCMS	DMSCLDIR (SFS Close Directory) ADRCMS
routines ADGCMS	DMSCLOSE (SFS Close) ADRCMS
template files ADGCMS, CMSMIG	DMSCOMM (SFS Commit) ADRCMS
description INTRO	DMSCPYBF (SFS Copy Buffer) SFSAD
examples ADGCMS	DMSCRALI (SFS Create Alias) ADRCMS
Extract/Replace ADGCMS	DMSCRDIR (SFS Create Directory) ADRCMS
active file set CMSMIG	DMSCRLOC (SFS Create Lock) ADRCMS
cross-reference of control block to information	DMSCSR (Set a REXX Variable) ADRCMS
name CMSMIG	DMSDELOC (SFS Delete Lock) ADRCMS
device set CMSMIG	DMSDEUSR (SFS Delete User) SFSAD
file set CMSMIG	DMSDISFS (SFS Disable File Space) SFSAD
general system set CMSMIG	DMSDISSG (SFS Disable Storage Group)
information names CMSMIG	SFSAD
minidisk and directory set CMSMIG	DMSENAFS (SFS Enable File Space) SFSAD
OS simulation set CMSMIG	DMSENASG (SFS Enable Storage Group)
shared file set CMSMIG	SFSAD
invoking routines ADGCMS	DMSENUSR (SFS Enroll User) SFSAD
languages CSL routines can be called from	DMSERASE (SFS Erase) ADRCMS
ADRCMS	DMSERP (Extract/Replace) ADRCMS
macros for writing CSL routines	DMSEXIDI (SFS Exist—Directory) ADRCMS
CMSMIG	DMSEXIFI (SFS Exist—File) ADRCMS
notes and restrictions for writing CSL routines	DMSEXIST (SFS Exist) ADRCMS
CMSMIG	DMSFILEC (SFS Filecopy) ADRCMS
OS/VS COBOL INTRO	DMSGETDA (SFS Get Directory—Searchall)
PL/I INTRO	ADRCMS

parameters ADRCMS DMSGETDD (SFS Get Directory—Dir) **ADRCMS** call to DMSCSL ADRCMS DMSGETDF (SFS Get Directory—File) general description ADRCMS **ADRCMS** retcode ADRCMS DMSGETDI (SFS Get Directory) ADRCMS rtnname ADRCMS DMSGETDK (SFS Get Directory—Lock) CSLCNTRL file type usage in CMS CMSUG **ADRCMS** DMSGETDL (SFS Get Directory—Alias) CSLENTRY macro ADGCMS general format ADRCMS DMSGETDS (SFS Get Directory—Searchauth) CSLEXIT macro ADGCMS general format ADRCMS **ADRCMS** DMSGETDT (SFS Get Directory—Auth) CSLFPI macro **ADRCMS** general format ADRCMS DMSGETFM (Get Filemode) ADRCMS CSLGEN command ADGCMS DMSGETWU (Get Workunitid) ADRCMS CSLGEN EXEC INTRO DMSGRANT (SFS Grant Authority) ADRCMS CSLGETP macro ADGCMS DMSOPBLK (SFS Open Blocks) SFSAD general format ADRCMS DMSOPCAT (SFS Open Catalog) SFSAD CSLLIB file type DMSOPDIR (SFS Open Directory) ADRCMS usage in CMS CMSUG DMSOPEN (SFS Open) ADRCMS CSLLIST command CMSMIG, CMSREF DMSPOPWU (Pop Default Workunitid) CSLSEG file type **ADRCMS** usage in CMS CMSUG DMSPURWU (Purge Workunitid) ADRCMS CSMRETCD macro ADGCMS, ADRCMS, DMSPUSWU (Push Default Workunitid) APGDE, CMSMIG **ADRCMS** return codes, defining names for ADRCMS CSMRETCD (IBM ECF return code) SRPI DMSQCONN (SFS Query Connect) ADRCMS DMSQFMOD (Query Filemode) ADRCMS CSW operand DMSQLIM (SFS Query Limits) SFSAD of DISPLAY command GENCMD DMSQLIMD (SFS Query Limits—Deblocker) of TRACE command GENCMD **SFSAD** CSW (channel status word) DMSQLIMU (SFS Query Limits—Single User) definition of DIAG displaying GENCMD **ADRCMS** DMSRDBLK (SFS Read Blocks) SFSAD information contained in DIAG DMSRDCAT (SFS Read Catalog) SFSAD problems helped by DIAG DMSREAD (SFS Read) ADRCMS csw, variable DMSRELBK (SFS Release Blocks) SFSAD described GENCMD, SYSCMD DMSRELOC (SFS Relocate) ADRCMS CTC RGOS DMSRENAM (SFS Rename) ADRCMS CTCA (channel-to-channel adapter) coding RDEVICE macro PLNGDE DMSREVOK (SFS Revoke Authority) **ADRCMS** driver IPCSREF links CONPAO DMSROLLB (SFS Rollback) ADRCMS DMSWRACC (SFS Write Accounting Record) CTCA operand of DEFINE command GENCMD **SFSAD** DMSWRBLK (SFS Write Blocks) SFSAD CTL option DMSWRCAT (SFS Write Catalog) SFSAD of EXECUPDT command CMSREF DMSWRITE (SFS Write) ADRCMS CTLBUFFERS start-up parameter SFSAD DMSWUERR (SFS Wuerror Deblocker) CTLCHAR option of EXTRACT XEDIT **ADRCMS** general format ADRCMS of SET XEDIT linking CSL routines to your program ADRCMS of TRANSFER XEDIT

CURLINE option	movement keys for <b>PRIMER</b>
of EXTRACT XEDIT	moving
of QUERY XEDIT	back and forth between command line and
of SET XEDIT	screen XEDIT
of TRANSFER XEDIT	in the file XEDIT
current column XEDITUG	on the screen XEDIT
in typewriter mode XEDITUG	to command line XEDIT, XEDITUG
current line	to current column XEDIT
advancing	to specified location XEDITUG
using a target XEDIT	placement in multiple screens XEDITUG
using DOWN XEDIT	positioning CMSREF
using NEXT XEDIT	splitting a line at XEDIT
appending text to XEDIT	transferring position of <b>XEDIT</b>
appending words to XEDITUG	CURSOR command of DMS/CMS APGDE
in typewriter mode XEDITUG	CURSOR option
as starting place for subcommands XEDITUG	of EXTRACT XEDIT
changing	of QUERY XEDIT
location on screen XEDITUG	of TRANSFER XEDIT
location on screen, example of XEDITUG	CURSOR subcommand of XEDIT command
position on screen of XEDIT	XEDIT
using a target XEDITUG	with DBCS strings XEDIT
using CLOCATE XEDITUG	CURSOR VSCREEN command CMSUG
using DOWN XEDITUG	description CMSREF
using UP XEDITUG	format CMSREF
using / XEDITUG	messages CMSREF
defining display features XEDITUG	operands
defining line on screen as XEDIT	col CMSREF
description CMSLOT	DATA CMSREF
displaying CMSLOT	line CMSREF
displaying in typewriter mode XEDITUG	RESERVED CMSREF
in file identification line PRIMER	vname CMSREF
indicator in file identification line XEDITUG	responses CMSREF
location on screen XEDITUG	usage notes CMSREF
moving	CUSTOMER PROFILE file INST, IPCSREF
to last line of file, using BOTTOM CMSLOT	sample IPCSREF
to top of file, using TOP CMSLOT	CUTYPE operand
toward end of file, using DOWN CMSLOT	of CLUSTER macro PLNGDE
toward top of file, using UP CMSLOT	of RCTLUNIT macro PLNGDE
using LOCATE CMSLOT	cuu operand
position on screen EXEC2, PRIMER	of MRIOBLOK subcommand IPCSREF
replacing CMSLOT, XEDIT	of VIOBLOK subcommand IPCSREF
replacing, in typewriter mode XEDITUG	cuu, variable
setting XEDIT	described GENCMD, SYSCMD
using target as displacement from XEDITUG	CVB operand of GDISPLAY subcommand
CURRENT operand	IPCSREF
of QUERY command SYSCMD	CVT macro GCSREF
current terminal line width SPIREF	description GCSREF
current trace entry definition IPCSREF	CVTSECT (CMS communications vector table)
cursor CMSLOT, XEDITUG	DIAG
control keys APGDE	CYLADDR operand
defined TERMREF	of DEFNUC macro PLNGDE
displaying position of XEDIT	cylinder zero
explanation of PRIMER	format for ADMIN, SFPROG
extracting position of XEDIT	format for ADMIN, SFFROG  format for all cylinders except ADMIN
joining lines at XEDIT	format for an cynnders except. ADMIN
Johnny moo at Albii	

cylinders except cylinder zero format for ADMIN format for use by CP ADMIN format of cylinder zero ADMIN on 2314/2319 disk ADGCMS on 3330 disk ADGCMS cylno operand

of IPL command GENCMD cylno, variable described GENCMD, SYSCMD cyl, variable described GENCMD, SYSCMD C2D function SPIREF C2X function SPIREF c, variable described GENCMD, SYSCMD

Refer to the foldout page at the back of this book for a chart of abbreviations and their corresponding manuals.

D	sharing, MVS virtual machine RGOS
	address considerations RGOS
D border command PRIMER	alternate path support RGOS
	asymmetric multiprocessing RGOS
D parameter  DMSCETDS (SES Cot Directory, Secrebanth)	data protection with virtual reserve/release
DMSGETDS (SFS Get Directory—Searchauth)	RGOS
ADRCMS	definitions RGOS
D prefix subcommand of XEDIT command APGDE,	dynamic path selection RGOS
PRIMER, XEDIT, XEDITUG	hardware for RGOS
example of XEDIT	initializing RGOS
practice exercise using XEDITUG	multiprocessing considerations with MVS guest
D-disk accessed after IPLing CMS CMSREF	RGOS
DAC component of file pool server SFSAD	reserve/release CCWs RGOS
dangling conversation SAACOM	sharing minidisk RGOS
dangling ELSE SPIUG	symmetric multiprocessing RGOS
DASD	sharing, VSE virtual machine RGOS
See DASD (direct access storage device)	considerations RGOS
DASD Block I/O System Service INTRO, SFPROG	dedicated or attached RGOS
establishing communications SFPROG	hardware for RGOS
from CMS SFPROG	minidisk with virtual reserve/release RGOS
IUCV communication SFPROG	minidisk with virtual reserve/release RGOS
IUCV CONNECT SFPROG	reserve/release support RGOS
IUCV SEND SFPROG	sharing minidisk RGOS
DASD Dump Restore (DDR)	virtual reserve/release RGOS
See DDR (DASD DUMP/Restore) program	with a stand-alone VSE System RGOS
DASD operand	with hardware switches but within one
of QUERY command SYSCMD	
of QUERY VIRTUAL command GENCMD	processor RGOS
DASD (direct access storage device) ADMIN,	without hardware switches RGOS
SFPROG	skew
See also disk	definition ADMIN, SYSMSG
cached ADMIN	space
caching SYSCMD	allocating on CP owned volumes ADMIN,
configuration aid PLNGDE	SFPROG
connecting for CP access and control SYSCMD	for CP message repository SFPROG
creating stand-alone version on minidisk SERV	specified in system directory INTRO
creating stand-alone version on tape SERV	storage
device addresses	accounting for use of SFSAD
specifying SYSCMD	adding to the file pool SFSAD
device/model codes ADMIN	allocating to users SFSAD
displaying status SYSCMD	changing amounts allocated to users SFSAD
factors affecting requirements INTRO	directing control data backups to SFSAD
failures	increasing file pool limit of SFSAD
allowing partial file pool access after SFSAD	managing SFSAD
recovering from SFSAD	monitoring consumption of SFSAD
for spool buffering <b>OPGDE</b>	querying a user's allocation SFSAD
format, stand-alone dump <b>DIAG</b>	removing from file pool SFSAD
I/O function SFPROG	setting warning threshold for SFSAD
listing users currently linked to the same GENCMD	supported in Starter System procedure INST
minidisk INTRO	SYSOWN macro
monitoring missing interruptions SYSCMD	allocating on CP-owned volumes PLNGDE
operations ADMIN	SYSRES macro
paths to ADMIN	calculating cylinders for checkpoint start data
preferred DASD area INTRO	PLNGDE
sharing ADMIN, INTRO	calculating cylinders needed for warm start
	data PLNGDE

using mixed DASD INST	using a target <b>XEDITUG</b>
virtual storage INTRO	using CLOCATE XEDITUG
volumes	loss DIAG
formatting ADMIN, SFPROG	recovering from SFSAD
initializing SFPROG	reducing the probability of DIAG
labeling ADMIN, SFPROG	lost, situations with CPTRAP DIAG
required to install VM/SP HPO INST	management IPCSREF
3350 ADMIN	needed before calling IBM for assistance DIAG
3380 ADMIN	path through VTAM machine GCSREF
DASDOPT directory control statement	prompting user for SPIUG
for the 3990 storage control model 3 ADMIN	purging SAACOM
operands PLNGDE	putting onto a program stack SPIUG
DEVCTL PLNGDE	reception and validation of SAACOM
NOCTL PLNGDE	records
SYSCTL PLNGDE	description SAACOM
DASTAP class monitor records ADMIN	Receive call SAACOM
DASTAP operand	Send_Data call SAACOM
of MONITOR command SYSCMD	sets
DAT option	See also console, I/O; modem
of PER command GENCMD	creating files ADGCMS
DAT (dynamic address translation)	format of ADGCMS
definition ADMIN, SYSMSG	identify VSAM ADGCMS
data	OS/MVS ADGCMS
buffering and transmission SAACOM	reading, OS/MVS ADGCMS
changing	specifying a member name ADGCMS
globally <b>XEDITUG</b>	VSAM, compatibility considerations
selectively XEDITUG	ADGCMS
using CHANGE XEDITUG	sheet, problem inquiry DIAG
using COVERLAY XEDITUG	taking from a program stack SPIUG
using CREPLACE XEDITUG	terms SPIREF
direction, changing	transfer error codes, VMCF SFPROG
by receiving program SAACOM	transfer functions of VMCF SFPROG
by sending program SAACOM	types, checking SPIUG
catalog sharing ADGCMS	data area
entering	conversion considerations CMSMIG
on display terminal XEDITUG	in full-screen CMS CMSUG
on typewriter terminal XEDITUG	mappings
field APGDE	for DMSQLIMA routine SFSAD
file, sharing INTRO	of DMSRDCAT routine SFSAD
flow	DATA entries in the CPTRAP file DIAG
both directions SAACOM	data extraction routine <b>DIAG</b>
one direction SAACOM	data option of LOCATE subcommand IPCSREF
from CPTRAP, analyzing DIAG	DATA parameter (APPC)
how it is sent <b>CONGREF</b>	of RECEIVE_AND_WAIT CONGREF
integrity INTRO	of SEND_DATA CONGREF
length SPIREF	data set control block (DSCB) ADGCMS
links CONGREF	DATA (keyword definition) IPCSREF
locating	

DATA-type trap DIAG	handling <b>SPIREF</b>
CP data, using DATA-type trap DIAG	DBLEFT function SPIREF
DATA entries, collecting in the CPTRAP file	DBRIGHT function SPIREF
DIAG	DBRLEFT function SPIREF
interface to CPTRAP, setting up DIAG	DBRRIGHT function SPIREF
specifying, using CPTRAP INFILE operand	DBTODBCS function SPIREF
DIAG	DBTOSBCS function SPIREF
using to record CP data DIAG	DBUNBRACKET function SPIREF
database (SQL) INTRO	DBVALIDATE function SPIREF
database testing APGDE	DBWIDTH function SPIREF
datalink string DIAG	DCB macro (BSAM/QSAM) GCSREF
datamask in DMS/CMS APGDE	blksize parameter GCSREF
DATATYPE function SPIREF, SPIUG	ddname parameter GCSREF
datatype of a word EXEC2	description GCSREF
date and version of the language processor SPIREF	dsorg parameter GCSREF
DATE control statement for FILEPOOL FORMAT	eodad parameter GCSREF
AUDIT SFSAD	exist parameter GCSREF
date displayed CMSLOT, PRIMER	lrecl parameter GCSREF
DATE field in FILEPOOL FORMAT AUDIT	macrf parameter GCSREF
output SFSAD	opted parameter GCSREF
DATE function SPIREF	recfm parameter GCSREF
date operand	synad parameter GCSREF
of LISTFILE command CMSREF	DCB (data control block)
of TIME subcommand IPCSREF	exit ADGCMS
datespec format of time stamp IPCSREF	relationship to FILEDEF command ADGCMS
datespec operand of TIME subcommand IPCSREF	DCBD macro (BSAM/QSAM) GCSREF
datespec specification of time stamp IPCSREF	description GCSREF
date, variable	dsorg parameter GCSREF
described GENCMD, SYSCMD	DCF (Document Composition Facility) CMSLOT,
DATOFF option	INTRO, PRIMER
of PER command GENCMD	DCLBFR function of IUCV CONGREF
day of week displayed CMSLOT, PRIMER	considerations for CONGREF
DBADJUST function SPIREF	parameter descriptions CONGREF
DBBRACKET function SPIREF	parameter list format SFPROG
DBCENTER function SPIREF	return codes CONGREF
DBCJUSTIFY function SPIREF	trace table entry format SFPROG
DBCS (double-byte character set) XEDIT	using SFPROG
character strings SPIREF	DCP command DIAG
functions	described SYSCMD
DBADJUST SPIREF	operands
DBBRACKET SPIREF	bytecount SYSCMD
DBCENTER SPIREF	END SYSCMD
DBCJUSTIFY SPIREF	hexloc1 SYSCMD
DBLEFT SPIREF	hexloc2 SYSCMD
DBRIGHT SPIREF	L SYSCMD
DBRLEFT SPIREF	Lhexloc1 SYSCMD
DBRRIGHT SPIREF	Mhexloc1 SYSCMD
DBTODBCS SPIREF	MLhexloc1 SYSCMD
DBTOSBCS SPIREF	MThexloci SYSCMD
DBUNBRACKET SPIREF	Nhexloci SYSCMD
DBVALIDATE SPIREF	NLhexloci SYSCMD
DBWIDTH SPIREF	NThexloci SYSCMD
DBCS operand	T SYSCMD
of DEFNUC macro PLNGDE	Thexloc1 SYSCMD
o. Del 1.00 maolo i Eligoti	0 SYSCMD

responses SYSCMD DDP (distributed data processing) summary OPGDE, SYSCMD advantages INTRO syntax diagram, class C or E SYSCMD definition INTRO usage notes SYSCMD distributed system requirements INTRO DCSS (discontiguous saved segments) network components INTRO See saved segment programmable operator facility INTRO DCSSGEN command INST related terms defined INTRO VM/SP facilities INTRO function INST installing CMSINST saved segment INST DDR loadlist INST See DDR (DASD DUMP/Restore) program DCSSGEN EXEC INTRO DDR command ADGCMS, RGOS DCSSMAP file type usage in CMS CMSUG COMPACT option for tape output CMSUG DD prefix command PRIMER invoking DD (data definition), simulating in CMS CMSREF under CMS ADMIN ddnames return codes SYSMSG defining DDR (DASD DUMP/Restore) program ADMIN, with DLBL command CMSREF DIAG with FILEDEF command CMSREF and the second-level VM system RGOS entering tape ddnames for AMSERV CMSREF control statements ADMIN for DLBL command, restrictions for OS users COPY ADMIN **CMSREF** description ADMIN IJSCT ADGCMS **DUMP ADMIN** INPUT ADMIN, SFPROG IJSUC ADGCMS IJSYSCT ADGCMS **OUTPUT ADMIN, SFPROG** in COBOL APGDE RESTORE ADMIN in FORTRAN APGDE SYSPRINT ADMIN, SFPROG in OS VSAM programs, restricted to seven DDR command SFPROG characters in CMS ADGCMS function control statements SFPROG relating to CMS file CMSREF COPY SFPROG specifying with FILEDEF command ADGCMS **DUMP SFPROG** to identify VSAM catalogs (CMS/DOS) CMSREF PRINT ADMIN, SFPROG to identify VSAM catalogs (OS VSAM users) RESTORE SFPROG **CMSREF** TYPE ADMIN, SFPROG used by assembler CMSREF functions of SFPROG used when assembling source programs ADGCMS invoking as a stand-alone program ADMIN, SFPROG used by FILEPOOL FORMAT AUDIT INPUT SFSAD under CMS SFPROG INPUTCTL SFSAD I/O definition statements ADMIN **OUTPUT SFSAD** location on Starter System tape INST ddname, variable program described GENCMD, SYSCMD explained ADMIN used to dump to tape CMSUG DDNAME = operand TEOVEXIT macro ADRCMS restrictions ADMIN, SFPROG DDNAME = AUDIT control statement SFSAD sample output SFPROG DDNAME = BACKUP control statement SFSAD usage notes SFPROG DDNAME = CONTROL control statement SFSAD use with paging storage ADMIN DDNAME = LOG1 control statement SFSAD using for system backup INST DDNAME = LOG2 control statement SFSAD using to restore starter system INST DDNAME = MDKnnnnn control statement SFSAD using with file pools SFSAD

main a midd. Danium Channas ADMINI	diamination DIAC
using with Paging Storage ADMIN	displaying dump information <b>DIAG</b>
utility tape, creating in VM RGOS	dumps DIAG
with 3480 tape drives ADMIN	formatting and displaying trace records <b>DIAG</b>
de-editing VSE macros ADGCMS	processing dumps DIAG
deactivating	QUERY CPTRAP command DIAG
conversation CONPAO	setting external tracing DIAG
gateway CONPAO	setting internal tracing <b>DIAG</b>
deadline priority	using system trace data to diagnose problems  DIAG
definition ADMIN, SYSMSG	CMS DIAG
DEALLOCATE state (APPC) CONGREF	
Deallocate (CMDEAL) routine CONGREF	commands summary DIAG
call description SAACOM	CP (control program) DIAG STCP command ADMIN
example flow using SAACOM	
DEALLOCATE, APPC verb abend conditions CONGREF	data needed before calling IBM DIAG for CP abnormal termination (abend) SYSMSG
	GCS DIAG
mapped with APPC/VM CONGREF	
parameters CONGREF	how to start DIAG
state changes CONGREF	analyzing problem DIAG
deallocate_type characteristic	does a problem exist? DIAG
possible values SAACOM set SAACOM	identify the problem DIAG introduction DIAG
deallocating conversations CONGREF	loop DIAG
DEBUG SVEMSC	CP disabled loop DIAG
error messages SYSMSG	virtual machine disabled loop DIAG
DEBUG command APGDE, DIAG	virtual machine enabled loop DIAG
conversion considerations CMSMIG	problem types DIAG
described INTRO	procedures for unexpected results and an abend
debug mode, programmable operator SFPROG	DIAG
debugging SPIUG	procedures for waits and loops DIAG
a CPTRAP file IPCSREF	programs GENCMD
a dump IPCSREF	See also interactive debug, TRACE instruction
abends DIAG	the EXEC 2 interpreter EXEC2
AVS DIAG	tools summary
CMS DIAG	See debugging tools summary TSAF DIAG
CCS PIAC	<del>-</del>
GCS DIAG SFS DIAG	abends DIAG
	collecting error information DIAG
TSAF DIAG	creating TSAF dump DIAG
virtual machine DIAG ADSTOP command INTRO	creating TSAF IPCS map DIAG
	diagnosing TSAF dump DIAG
after a program check <b>DIAG</b> aids	displaying trace records <b>DIAG</b>
brief overview of SFSAD	displaying TSAF dump information DIAG
	formatting trace records <b>DIAG</b>
ETRACE operator command SFSAD	printing TSAF dump DIAG
external tracing SFSAD	processing TSAF dump DIAG
FILESERV LIST command SFSAD	sample console log DIAG
internal tracing SFSAD	setting external tracing DIAG
ITRACE operator command SFSAD	trace table entry format DIAG
mini-dumps SFSAD	trace table trailer record format DIAG
PL/I INTRO	trapping trace table entries <b>DIAG</b>
application programs INTRO AVS DIAG	TSAF QUERY command DIAG
abends DIAG	using the console log DIAG
creating dumps DIAG	using TSAF dumps to diagnose DIAG
-	unexpected result <b>DIAG</b> virtual machine <b>DIAG</b>
diagnosing dumps DIAG	virtual macining <b>DIAG</b>

VM/SP INTRO store virtual data DIAG wait **DIAG** trace execution DIAG CP disabled wait DIAG trace real machine events DIAG CP enabled wait DIAG debug, interactive SPIREF virtual machine disabled wait DIAG decimal virtual machine enabled wait DIAG arithmetic SPIREF with the CPTRAP facility DIAG number with VM/SP HPO facilities DIAG converting SPIUG debugging tools summary description of SPIUG command DIAG to character conversion SPIREF ADSTOP DIAG to hexadecimal conversion SPIREF APAR DIAG DECIMAL data Type in SQL and COBOL COBOL APGDE **BEGIN DIAG** CPTRAP DIAG deciphering SECUR DCP DIAG decision making SPIUG DISPLAY DIAG **DECK** option **DUMP DIAG** of ASSEMBLE command CMSREF IPCSDUMP DIAG of OPTION command CMSREF IPCSPRT DIAG declarative macros IPCSSCAN DIAG DTFCD ADGCMS, ADRCMS MAP DIAG DTFCN ADGCMS, ADRCMS MONITOR DIAG DTFDI ADGCMS, ADRCMS PER DIAG DTFMT ADGCMS, ADRCMS PRB DIAG DTFPR ADGCMS, ADRCMS PROB DIAG DTFSD ADGCMS, ADRCMS STAT DIAG DECLARE BUFFER function of IUCV STCP DIAG CONGREF, SFPROG STORE DIAG considerations CONGREF SVCTRACE DIAG parameter descriptions CONGREF TRACE DIAG parameter list format SFPROG TRAPFILE DIAG return codes CONGREF VMDUMP DIAG trace table entry format SFPROG data, displaying or dumping using SFPROG byte alignment on terminal output DIAG DECLARE CURSOR statement of SQL APGDE DCP command DIAG declaring buffer CONGREF **DEBUG DIAG** DEDICATE directory control statement INTRO DISPLAY command DIAG example PLNGDE DMCP command DIAG MVS virtual machine RGOS DUMP command DIAG operands printer output DIAG NETWORK PLNGDE terminal output DIAG rdev PLNGDE VMDUMP command DIAG resource PLNGDE function DIAG R/O PLNGDE display real CP data DIAG vaddr PLNGDE display virtual data DIAG VOLID PLNGDE dump data DIAG 3330V PLNGDE resume execution DIAG preferred machine assist PLNGDE stop execution DIAG VSE RGOS

store real CP data DIAG

dedicated	GRAF GENCMD
channels	LINE GENCMD
See Diagnosis Reference	PRINTER GENCMD
attaching GENCMD	PUNCH GENCMD
detaching GENCMD	raddr SYSCMD
channels, spooling	READER GENCMD
See Diagnosis Reference	SEL GENCMD
DASD volumes	STORAGE GENCMD
initializing with DSF RGOS	SYSVIRT SYSCMD
devices ADMIN	TFB-512 GENCMD
attaching GENCMD	TIMER GENCMD
detaching GENCMD	T2305 GENCMD
3800 printer support <b>OPGDE</b>	T3310 GENCMD
maintenance mode SFSAD	T3330 GENCMD
scheduling tip for SFSAD	T3340 GENCMD
specifying start-up parameters for SFSAD	T3350 GENCMD
tracing server execution during SFSAD	T3370 GENCMD
private gateways CONGREF	T3375 GENCMD
See also private gateways	T3380 GENCMD
tape device INTRO	vaddr GENCMD
terminal definitions RGOS	VIRTUAL SYSCMD
2305 restriction GENCMD	1403 GENCMD
dedicating links CONPAO	1443 GENCMD
defaults	2501 GENCMD
according to file type XEDIT	2540P GENCMD
authorization to access private resources CONPAO	2540R GENCMD
DLBL definitions ADGCMS	3036 GENCMD
environment SPIREF	
	3066 GENCMD
external interrupt handlers ADRCMS, CMSMIG FILEDEF definition ADGCMS	3088 GENCMD
	3138 GENCMD
for optional parameters CONGREF	3148 GENCMD
interval values	3158 GENCMD
MIH (missing interrupt handler) ADMIN	3203 GENCMD
logical operator SFPROG	3211 GENCMD
notebook CMSUG	3262 GENCMD
of MACLIB MAP command ADGCMS	3270 GENCMD
setting with DEFAULTS command CMSUG	3289E GENCMD
tabs, displaying PRIMER	3505 GENCMD
DEFAULTS command CMSREF	3525 GENCMD
LIST option CMSREF	3800 GENCMD
SET option CMSREF	4245 GENCMD
valid CMS command options CMSREF	4248 GENCMD
DEFFCB operand	responses GENCMD, SYSCMD
of START command SYSCMD	summary OPGDE, SYSCMD
DEFINE command ADMIN, CMSUG, DIAG, RGOS	syntax diagram, class A or B SYSCMD
class G GENCMD	to increase virtual storage size CMSUG
class A,B SYSCMD	usage notes GENCMD, SYSCMD
defining temporary minidisks CMSUG	DEFINE control statement ADGCMS
described GENCMD, SYSCMD	DEFINE STORAGE command CMSLOT,
example of use INTRO	PRIMER
operands	DEFINE VSCREEN command CMSUG
BMX GENCMD	description CMSREF
CHANNELS GENCMD	examples CMSREF
CONSOLE GENCMD	format CMSREF
CTCA GENCMD	messages CMSRFF

operands color CMSREF cols CMSREF exthi CMSREF HIGH CMSREF lines CMSREF NOHIGH CMSREF NOPROTECT CMSREF NOTYPE CMSREF PROTECT CMSREF psset CMSREF rbot CMSREF rtop CMSREF SYSTEM CMSREF TYPE CMSREF USER CMSREF vname CMSREF usage notes CMSREF DEFINE WINDOW command CMSUG description CMSREF format CMSREF messages CMSREF operands BORDER CMSREF cols CMSREF FIXED CMSREF lines CMSREF NOBORDER CMSREF NOPOP CMSREF NOTOP CMSREF POP CMSREF pscol CMSREF psline CMSREF SYSTEM CMSREF TOP CMSREF USER CMSREF VARIABLE CMSREF wname CMSREF defined gateway, deactivating CONPAO defining a basic MVS virtual machine RGOS a control character XEDIT a file pool SFSAD a single VSE virtual machine RGOS a tab character CMSLOT a virtual screen CMSREF, XEDIT a window CMSREF, XEDIT a virtual 3800 printer ADMIN alternate path to tape or DASD RGOS AUTOLOG1 in the directory RGOS

AVS internal trace table CONPAO AVS load module CONPAO AVS virtual machine to GCS CONPAO cluster for VSAM space ADGCMS clusters ADGCMS CMS files GCSREF CMS load libraries GCSREF columns for target searches XEDIT commands GCSREF communication directory entries CONPAO CPUIDs for the VSE/SP virtual machine **RGOS** DOS input files ADGCMS DOS output files ADGCMS first and second-level VM system RGOS fixed-block mode devices GENCMD gateways CONPAO to AVS virtual machine CONPAO to collection CONPAO to VTAM CONPAO global/local resources to the collection CONPAO IOCP to the processor DLS mode ADMIN links to TSAF virtual machine CONPAO logical line editing symbols GENCMD, **SYSCMD** minidisks INST, PLNGDE mode name table CONPAO more than 8 privilege classes PLNGDE non-restricted user logon passwords INST OS input/output files ADGCMS OS/MVS data sets ADGCMS private resources CONPAO privilege classes ADMIN requester userid and password in communications directory CONPAO requester userid and password in its CP directory CONPAO resource name in connection request CONPAO screen size XEDITUG space for VSAM files in CMS/DOS ADGCMS space for VSAM files in OS ADGCMS spool files GCSREF spool unit record devices RGOS starter system configuration INST system device configuration INTRO tapes, nonstandard CMSUG tapes, standard CMSUG

tapes, unlabeled CMSUG

target of connection request CONPAO	DEL key APGDE
temporary disks GENCMD	DEL option
temporary minidisks CMSUG	of DOSLIB command CMSREF
unique clusters ADGCMS	of MACLIB command APGDE, CMSREF
unique resource IDs CONPAO	of TXTLIB command APGDE
unique user IDs CONPAO	DELENTRY macro ADGCMS, ADRCMS,
user catalogs ADGCMS	APGDE, CMSMIG, SRPI
virtual console for VSE RGOS	assembly message (MNOTE) ADRCMS
virtual consoles for MVS guest RGOS	Communications Module termination
virtual devices GENCMD	notification list ADRCMS
VSAM files GCSREF	entry-name dropped from Communications
VSAM master catalog in CMS/DOS ADGCMS	Module termination notification
VSAM master catalog in OS ADGCMS	list ADRCMS
Definition Language for Command Syntax (DLCS)	DELENTRY subcommand SRPI
See DLCS (Definition Language for Command	delete lock ADRCMS
Syntax)	DELETE ADMINISTRATOR command
definition list CMSLOT, PRIMER	instructions for using SFSAD
definition operands	reference information for SFSAD
of CPTRAP command SYSCMD	DELETE command ADGCMS, CMSLOT
definition statement, APPL CONPAO	of DMS/CMS APGDE
definitions CONPAO	of SQL APGDE
console TERMREF	DELETE control statement ADGCMS
conversational TERMREF	DELETE in typewriter mode XEDITUG
cursor TERMREF	DELETE key PRIMER
interactive TERMREF	used to delete a line XEDIT
mode TERMREF	DELETE LINK command (TSAF) CONPAO
modem TERMREF	DELETE LOCK command CMSLOT, CMSREF,
network TERMREF	CMSUG, PRIMER, SFSAD
of GCS GCSREF	DELETE macro GCSREF
of terms DIAG, GCSREF, IPCSREF	de parameter GCSREF
raddr TERMREF	description GCSREF
terminal TERMREF	ep parameter GCSREF
DEFNUC macro PLNGDE, SFSAD	eploc parameter GCSREF
example PLNGDE	related parameter GCSREF
format PLNGDE	DELETE NAMEDEF command CMSREF
operands	DELETE operand
CYLADDR PLNGDE	of MONITOR command SYSCMD
DBCS PLNGDE	DELETE PUBLIC command SFSAD
HELP PLNGDE	DELETE statement of SQL APGDE
INSTID PLNGDE	DELETE subcommand of XEDIT command
INSTSEG PLNGDE	APGDE, XEDIT
IPLADDR PLNGDE	example of XEDIT
IPLCYLO PLNGDE	DELETE USER command
LANGID PLNGDE	instructions for using SFSAD
LANGLEV PLNGDE	reference information for SFSAD
REWRITE PLNGDE	DELETE VSCREEN command CMSUG
SAVESYS PLNGDE	description CMSREF
SYSDISK PLNGDE	format CMSREF
SYSNAME PLNGDE	messages CMSREF
USEINST PLNGDE	operands
VERSION PLNGDE	vname CMSREF
YDISK PLNGDE	usage notes CMSREF
DEFSEG command	DELETE WINDOW command CMSUG
creating a saved segment ADGCMS, CMSMIG	description CMSREF
DEGRADE (keyword definition) IPCSREF	format CMSREF

messages CMSREF demand operands page migration ADMIN oper CMSREF paging INTRO usage notes CMSREF definition INTRO **DEN** option deleting a block of lines PRIMER of ASSGN command CMSREF a file pool SFSAD of FILEDEF command CMSREF a national language ADMIN, SFPROG density of tapes CMSUG a user SFSAD deoptimizing macro XEDIT a virtual screen definition CMSREF DEPEND statement, update file SERV a window definition CMSREF dependent PTF (SNA service) SERV access method services function ADGCMS DEQ macro GCSREF an administrator SFSAD description GCSREF characters XEDIT, XEDITUG execute format GCSREF in typewriter mode **XEDITUG** list format GCSREF CMS files from minidisk or SFS directory mf parameter GCSREF **ADRCMS** qname address parameter GCSREF HELP files CMSUG related parameter GCSREF ret parameter GCSREF lines block of lines XEDITUG rname address parameter GCSREF recovering XEDITUG rname length parameter GCSREF using D prefix subcommand XEDIT, derived name SPIREF, SPIUG **XEDITUG** derived names of variables SPIREF using DELETE XEDIT, XEDITUG DESBUF command described CMSREF using REPLACE XEDIT descending order sorting CMSLOT, XEDIT from a file CMSLOT, PRIMER DESCRIBE function (IUCV macro) CONGREF, members of a MACLIB ADGCMS **SFPROG** part of a string SPIREF completion CONGREF program stack buffer CMSREF condition codes CONGREF spool files GENCMD parameter descriptions CONGREF the rest of the line PRIMER parameter list CONGREF VSAM catalogs ADGCMS parameter list format SFPROG VSAM clusters ADGCMS program exceptions CONGREF VSAM spaces ADGCMS trace table entry format SFPROG words from a line CMSLOT using SFPROG words from a string SPIREF DESCRIPT option of DETAIL HELP CMSUG delimiters descriptions See also semicolons message number SYSMSG clause SPIUG module code SYSMSG comment SPIUG of IUCV macro parameters SFPROG in command lines GENCMD, SYSCMD prefix SYSMSG parenthesis EXEC2 severity code SYSMSG space EXEC2 type code SYSMSG using XEDITUG design grid screen APGDE in typewriter mode XEDITUG designing a program SPIUG **DELSTR** function **SPIREF** DEST dest operand DELWORD function SPIREF, SPIUG of SPOOL command GENCMD of TRANSFER command GENCMD DEST off operand

Refer to the foldout page at the back of this book for a chart of abbreviations and their corresponding manuals. of SPOOL command GENCMD

DEST operand	usage notes GENCMD, SYSCMD
of CHANGE command SYSCMD	DETACH macro GCSREF
of CLOSE command GENCMD	task id address parameter GCSREF
of ORDER command GENCMD, SYSCMD	DETACH resid operand
of PURGE command SYSCMD	of NETWORK command SYSCMD
of QUERY command GENCMD, SYSCMD	detaching
of SPTAPE command SYSCMD	and attaching volumes
of START command SYSCMD	user and system <b>OPGDE</b>
of TRANSFER command SYSCMD	dedicated devices GENCMD
destination line	minidisks CMSUG
F prefix subcommand XEDITUG	temporary disks <b>GENCMD</b>
for copied lines XEDITUG	virtual devices GENCMD
for moved lines <b>XEDITUG</b>	DETAIL HELP CMSREF, CMSUG
of copied lines	obtaining using HELP command CMSREF
specifying XEDIT	obtaining using MOREHELP command
specifying using F XEDIT	CMSREF
specifying using P XEDIT	detecting
of moved lines	problems related to page migration ADMIN
specifying XEDIT	detection mechanisms for security violations SECUR
specifying using F XEDIT	determining
specifying using P XEDIT	amount of Paging Storage ADMIN
P prefix subcommand XEDITUG	AVS settings CONPAO
destination operands	command environment GENCMD, SYSCMD
of CPTRAP command SYSCMD	DASD space for CP message repository
destroying	SFPROG
a file PRIMER	device or file attributes GENCMD
a reader file PRIMER	if a file or directory is locked CMSLOT,
dest1 operand	PRIMER
of CHANGE command SYSCMD	program entry points ADGCMS
of ORDER command GENCMD, SYSCMD	the owner of a file CMSLOT, PRIMER
of PURGE command SYSCMD	virtual machine storage size SFPROG
dest2 operand	where to save the saved segment ADMIN
of CHANGE command SYSCMD	who has aliases CMSLOT, PRIMER
of ORDER command GENCMD, SYSCMD	who has authority CMSLOT, PRIMER
of PURGE command SYSCMD	DEV PRT/PCH/CONSOLE/vaddr operand
dest, variable	of TAG command GENCMD
described GENCMD, SYSCMD	devaddr option of SELECT subcommand IPCSREF
DETACH command CMSUG, INTRO	develass, variable
class B described SYSCMD	described GENCMD, SYSCMD
class G described GENCMD	developing
example of use INTRO	applications INTRO
operands	commands ADGCMS
CHANNEL GENCMD, SYSCMD	message files ADGCMS
FROM SYSTEM SYSCMD	device
FROM userid SYSCMD	address use
FROM * SYSCMD	under preferred machine assist RGOS
Laddr SYSCMD	addresses, four-digit CMSMIG
LEAVE SYSCMD	characteristics <b>DIAG</b>
PROC SYSCMD	classes, types, models, and features
raddr SYSCMD	(DIAGNOSE code X'24') SFPROG
UNLOAD SYSCMD	control
vaddr GENCMD	CP command used GENCMD, SYSCMD
responses GENCMD, SYSCMD	end posting, 3880 ADMIN
summary OPGDE, SYSCMD	error status ADRCMS
syntax diagram, class B SYSCMD	checking, using CONSOLE macro ADRCMS
Syntax diagram, class D SISCIVID	checking, using CONSOLE madio ADRCMS

model codes SFPROG errors allowing partial file pool access after SFSAD monitored recovering from SFSAD MIH (missing interrupt handler) ADMIN information, mapping in 370-XA ADRCMS nondedicated ADMIN marking available for user or control program output, restrictions in CMS/DOS ADGCMS marking unavailable for user or control program 3880 Storage Control System ADMIN **SYSCMD** Paging Storage ADMIN simulated by programming PLNGDE recording mode set SYSCMD simulated I/O, specifying PLNGDE simulating not ready status for virtual types APGDE DISK APGDE **GENCMD** PRINTER APGDE special configuration aid PLNGDE PUNCH APGDE specifying type with FILEDEF command READER APGDE **ADGCMS** TAPn APGDE subclass TERMINAL APGDE defining unsupported devices PLNGDE device operand of SELECT subcommand IPCSREF supported, for VSAM under CMS ADGCMS Device Support Facility ADGCMS, ADMIN, INST switching between systems RGOS type codes SFPROG **SFPROG** unit record INTRO formatting temporary disks ADGCMS functions INST unsupported creating stand-alone version on tape SERV coding RDEVICE macro PLNGDE loading from tape INST virtual location on tape INST linking to **GENCMD** devices VM/SP I/O INTRO assignments in CMS/DOS ADGCMS DEVICE = operand class INTRO GETSID macro ADRCMS coding RDEVICE macro HNDIO macro ADRCMS system console PLNGDE DEVInfo directory option PLNGDE unsupported devices PLNGDE DEVMaint directory option PLNGDE configuration aid PLNGDE devname, variable configuration, defining INTRO described GENCMD, SYSCMD configuring PLNGDE DEVNAME = operand CP-owned CKD GETSID macro ADRCMS format for ADMIN HNDIO macro ADRCMS **DEVTYPE** operand CP-owned FBA format for ADMIN of RDEVICE macro PLNGDE dedicated ADMIN DEVTYPE operand, RDEVICE macro PLNGDE DEVTYPE (keyword definition) IPCSREF dedicating to virtual machines PLNGDE disks, cylinders, and tracks ADGCMS devtype, variable FBA SFPROG described GENCMD, SYSCMD feature codes SFPROG DIAG function SPIREF for stand-alone dump DIAG DIAGNOSE codes how to attach more than 410 to a virtual ADDRQRY function ADMIN machine ADMIN determine location of address ADMIN assigning privilege classes ADMIN I/O assignments ADGCMS determine virtual machine storage size ADMIN monitor considerations ADMIN find address of DCSS ADMIN linking at logon PLNGDE finding those authorized for user GENCMD

FINDSYS function ADMIN X'40' (clean-up after virtual IPL by device) instruction use SFPROG **SFPROG** X'48' (issue SVC 76 from a second level interface with a saved segment ADMIN load saved segments ADMIN machine) SFPROG LOADSYS function ADMIN X'5C' (error message editing) SFPROG privilege classes X'50' (save the 370X control program image) changing ADMIN **SFPROG** purge DCSS ADMIN X'54' (control function of the PA2 function **PURGESYS function ADMIN** kev) SFPROG restriction of SECUR X'58' SFPROG display data on 3270 console screen SFPROG supported when you IPL MVS with the PMAV 3270 virtual console interface, full screen option RGOS X'A0' (retrieve a group name) SFPROG interactions SFPROG X'A4' ADGCMS, CMSMIG 3270 virtual console interface, full screen interactions (3270 SIO) SFPROG X'A8' ADGCMS, CMSMIG X'BC' (open a spool file) SFPROG 3270 virtual console interface, full screen mode X'B0' (access diagnostic IPL and re-IPL **SFPROG** instruction ADGCMS information) SFPROG X'B4' (virtual printer external attribute buffer X'6C' (shadow table maintenance) SFPROG manipulation) SFPROG X'60' (determine virtual machine storage size) X'B8' (spool file external attribute buffer **SFPROG** manipulation) SFPROG X'64' (finding, loading, purging named X'CC' (saving the CP message repository) SFPROG segments) CMSMIG, SFPROG ADDRORY function SFPROG X'C8' (set language) SFPROG X'DC' (record data in MONITOR file) SFPROG FINDSYS function SFPROG X'D0' (provide 3480 tape volume serial number) LOADSYS function SFPROG **SFPROG** PURGESYS function SFPROG X'D4' (specify an alternate userid) SFPROG X'68' (VMCF function) SFPROG X'7C' (logical device support facility) SFPROG X'D8' (system spool information) SFPROG X'EC' (query function) SFPROG X'70' (activating TOD-clock accounting X'0C' (pseudo timer) SFPROG interface) SFPROG X'00' (store extended-identification code) SFPROG X'70' issued by TODACCNT licensed program identification bits SFPROG function ADRCMS X'04' (examine real storage) SFPROG using ENABLE subfunction ADRCMS X'08' (virtual console function) SFPROG using QUERY subfunction ADRCMS interface IPCSREF X'74' (saving or loading a 3800 named system) X'1C' (clear error recording cylinders) SFPROG **SFPROG** X'10' (release pages) SFPROG X'78' (MSS communication) SFPROG X'14' (input spool file manipulation) SFPROG X'8C' (access device dependent information) X'18' (standard DASD I/O) SFPROG **SFPROG** X'2C' (start of LOGREC area) SFPROG X'80' (MSSFCALL) SFPROG X'20' (general I/O) SFPROG X'84' (directory update in-place) SFPROG X'24' (device type and features) SFPROG X'94' (VMDUMP Function) INTRO, device classes, types, models, and features **SFPROG SFPROG** interface IPCSREF used by CMSDEV macro ADRCMS X'98' (real channel program support) SFPROG used by PRINTL macro ADRCMS X'64' (ADDRQRY function) ADMIN X'28' (channel program modification) SFPROG X'64' (FINDSYS function) ADMIN X'3C' (VM directory) SFPROG X'64' (LOADSYS function) ADMIN X'30' (read LOGREC data) SFPROG support for MVS guest RGOS X'34' (read system dump spool file) SFPROG DIAGNOSE instruction ADMIN, SFPROG X'38' (read system symbol table) SFPROG See also DIAGNOSE codes X'4C' (generate accounting records for the access device dependent information SFPROG

access diagnostic IPL and re-IPL information

SFPROG

virtual user) CONPAO, SFPROG

start of LOGREC area SFPROG activating the TOD-clock accounting interface **SFPROG** store extended-identification code SFPROG ADDRQRY function SFPROG system spool information SFPROG channel program modification SFPROG update VM directory SFPROG clean-up after virtual IPL by device SFPROG virtual console function SFPROG clear error recording SFPROG virtual printer external attribute buffer control function of the PA2 function key SFPROG manipulation SFPROG determine virtual machine storage size SFPROG VMCF function SFPROG data transfer error codes SFPROG device type and features SFPROG directory update in-place SFPROG return codes SFPROG display data on 3270 console screen SFPROG VMCPARM parameter list SFPROG VMDUMP Function SFPROG error message editing SFPROG examine real storage SFPROG 3270 virtual console interface finding, loading, purging named segments SFPROG full screen interactions SFPROG FINDSYS function SFPROG full screen interactions (3270 SIO) SFPROG format SFPROG full screen mode SFPROG general I/O SFPROG diagnosing generate accounting records for the virtual user a TSAF dump DIAG **SFPROG** an AVS dump DIAG input spool file manipulation SFPROG problems IPCSREF issue SVC 76 from a second level virtual machine **AVS CONPAO** dumps CONPAO logical device support facility SFPROG TSAF CONPAO MSS communication SFPROG system programming problems INTRO diagnostic aids PLNGDE MSSFCALL SFPROG open a spool file SFPROG alternate path support PLNGDE page release function SFPROG brief overview of SFSAD provide 3480 tape volume serial number SFPROG ETRACE operator command SFSAD pseudo timer SFPROG external tracing SFSAD PURGESYS function SFPROG FILESERV LIST command SFSAD query function SFPROG internal tracing SFSAD querying an address SFPROG ITRACE operator command SFSAD MIH (missing interrupt handler) ADMIN read LOGREC data SFPROG read system dump spool file SFPROG mini-dumps SFSAD read system symbol table SFPROG Paging Storage ADMIN real channel program support SFPROG SYSCOR macro ADMIN record data in MONITOR file SFPROG Vector Facility ADMIN restrictions **3880 ADMIN** preferred machine assist RGOS diagnostic information saved for protected single processor mode RGOS application facility users SFPROG retrieve a group name SFPROG diagonal (/) save the 370X control program image SFPROG See slash (/) saving or loading a 3800 named system SFPROG DIAGRC function SPIREF saving the CP messages repository SFPROG DIAG98 operand set language SFPROG of OPTION directory control statement shadow table maintenance SFPROG PLNGDE specify an alternate userid SFPROG defining in directory PLNGDE spool file external attribute buffer DIAL command CMSUG, GENCMD, INTRO,

Refer to the foldout page at the back of this book for a chart of abbreviations and their corresponding manuals.

manipulation SFPROG standard DASD I/O SFPROG **RGOS, TERMREF** 

described GENCMD

device restriction <b>GENCMD</b>	checking for existence of ADRCMS
operands	CLASS control statement PLNGDE
userid GENCMD	closing ADRCMS
vaddr GENCMD	CMS auxiliary CMSREF
responses GENCMD	CMS communications CMSMIG
usage notes GENCMD	description CONGREF
used with VSCS SFPROG	tags CONGREF
DIAL operand	communications CONPAO
of CLUSTER macro PLNGDE	considerations for preparing PLNGDE
dialing in GENCMD	CONSOLE control statement PLNGDE
dialogs APGDE	control statements
elements APGDE	See directory control statements
management system APGDE	copying files to CMSUG
test option APGDE	copying to directory from tape CMSUG
testing APGDE	creating ADRCMS, CMSLOT,
variables in ISPF APGDE	CMSREF, CMSUG, PRIMER
variable pools APGDE	creating a subdirectory CMSREF
different systems, communication within CONGREF	DASDOPT control statement PLNGDE
digital clock on the CMS window PRIMER	DEDICATE control statement PLNGDE
DIGITS function SPIREF	defining
DIGITS option of NUMERIC instruction SPIREF,	access control groups PLNGDE
SPIUG	accounting number PLNGDE
DIR parameter	distribution code PLNGDE
DMSOPDIR (SFS Open Directory) ADRCMS	volume to contain PLNGDE
DIRBUFF macro	definition ADMIN, CMSLOT, CMSUG,
directory buffer mappings ADRCMS	PRIMER, SYSMSG
general format ADRCMS	deleting a lock CMSLOT, PRIMER
DIRECGEN EXEC INST	deleting lock ADRCMS
direct access storage device (DASD)	determining if locked CMSUG
See DASD (direct access storage device)	determining ownership CMSUG
direct branch linkage ADGCMS, ADRCMS, CMSMIG	DIRECTORY control statement PLNGDE
DIRECT command	displaying a directory structure CMSREF
format PLNGDE	displaying specified directory information via
return codes SYSMSG	LISTFILE CMSREF
VM/XA-unique operands PLNGDE	displaying status CMSUG
DIRECT file type usage in CMS CMSUG	effect of restore on SFSAD
direct interface to variables SPIREF	entries ADGCMS
directing	example ADMIN
messages to a file PRIMER	for CMS/DOS PLNGDE
warnings to a file PRIMER	for CMS/DOS library volumes ADGCMS
directory APGDE, SFSAD	for national languages, updating SFPROG
accessing CMSREF	for private resource server virtual machine
another user's CMSLOT, CMSUG	CONPAO
PRIMER	first-level VM system RGOS
as file mode A CMSREF	in IUCV SFPROG
from DIRLIST CMSLOT, PRIMER	MVS considerations RGOS
ACCOUNT control statement PLNGDE	MVS preferred guest RGOS
ACIGROUP control statement PLNGDE	MVS V = R guest RGOS
APPCPASS control statement CONPAO,	MVS V = V  guest <b>RGOS</b>
PLNGDE	second-level VM system RGOS
authorization for IUCV SFPROG	virtual machine attributes GENCMD
AVS CONPAO	VSE virtual machine RGOS
See also AVS virtual machine, directory	VTAM RGOS
backup ADMIN	erasing ADRCMS, CMSLOT, PRIMER
buffer mapping macro ADRCMS	
11 0	

erasing files from CMSREF, CMSUG example a virtual machine for updating VMSYS PLNGDE maintenance virtual machine, hardware PLNGDE operating systems in a virtual machine, system dump PLNGDE extensions CMSUG gateway owner CONPAO global/local resource manager CONPAO granting authority for SFS ADGCMS granting other users authority CMSLOT, PRIMER granting read authority on CMSUG hardware support PLNGDE hierarchical structure CMSUG identifier commands that accept CMSUG ways to specify CMSUG when to specify a file mode as CMSUG INCLUDE control statement PLNGDE IPL control statement PLNGDE IUCV control statement PLNGDE See also IUCV (Inter-User Communications Vehicle), statements LINK control statement PLNGDE listing a directory structure CMSREF listing contents CMSLOT, PRIMER LOAD control statement PLNGDE locking ADRCMS, CMSREF and unlocking CMSLOT, PRIMER with a SHARE lock CMSLOT, PRIMER with an EXCLUSIVE lock CMSLOT, PRIMER with an UPDATE lock CMSLOT, PRIMER management ADMIN manipulating SFS directories ADGCMS maximums related to SFSAD MDISK control statement **3380 ADMIN** minidisks overlapping extents PLNGDE MINIOPT control statement **3380 ADMIN** multiple global/local resource owner CONPAO naming CMSREF, CMSUG of VSE libraries, sorting CMSREF opening ADRCMS operator directory entry example PLNGDE OPTION control statement PLNGDE options, RSCS SECUR other system virtual machines PLNGDE permitted number of users PLNGDE

**CONPAO** PROFILE control statement PLNGDE profiles ADMIN creating PLNGDE description PLNGDE invoking PLNGDE program PLNGDE directory, list of PLNGDE invoking under CMS PLNGDE running standalone PLNGDE providing for CMS batch virtual machine **CMSUG** querying accessed CMSUG querying locks CMSLOT, PRIMER reading SFPROG read-only extensions CMSUG records, reading ADRCMS referring to CMSUG releasing CMSUG releasing, during a terminal session CMSUG relocating CMSLOT, PRIMER removing SFS authority ADGCMS renaming CMSLOT, PRIMER replacing entries SFPROG requester program userid and password information CONPAO requester virtual machine explicit authorization to connect to resources **CONPAO** specifying target system security information in CONPAO resource manager See server, virtual machine, CP directory entry resource owner CONPAO requirements for changing PLNGDE revoking authority CMSLOT, PRIMER sample PLNGDE for 3350 PLNGDE for 3375 PLNGDE for 3380 PLNGDE for 3380-E4 PLNGDE SCREEN control statement PLNGDE search order CMSUG

private resource server virtual machine

Refer to the foldout page at the back of this book for a chart of abbreviations and their corresponding manuals. SPECIAL control statement PLNGDE

SPOOL control statement PLNGDE

See server virtual machine, CP directory entry

server virtual machine

software support PLNGDE

sharing CMSUG

START function PLNGDE	MVS virtual machine
statements, VM/XA-unique PLNGDE	ACCOUNT RGOS
STOP function PLNGDE	CONSOLE RGOS
structure, viewing with DIRLIST CMSUG	DEDICATE RGOS
structure, viewing with LISTDIR CMSUG	IPL RGOS
SYSAFFIN control statement PLNGDE	LINK RGOS
system SECUR	MDISK RGOS
CMS Shared File System INTRO	OPTION RGOS
data contained INTRO	SPECIAL RGOS
definition INTRO	SPOOL RGOS
for RSCS systems INTRO	USER RGOS
maintenance INTRO	OPTION PLNGDE
support virtual machines PLNGDE	PROFILE PLNGDE
virtual machine definition INTRO	SCREEN PLNGDE
transferring ownership of SFSAD	SPECIAL PLNGDE
TSAF CONPAO	SPOOL PLNGDE
See also TSAF virtual machine, directory	SYSAFFIN PLNGDE
update-in-place SECUR, SFPROG	USER PLNGDE
updating with DIAGNOSE code X'3C' SFPROG	VSE virtual machine
	ACCOUNT RGOS
usage authority ADRCMS USER control statement PLNGDE	
	CONSOLE RGOS
user program virtual machine	DEDICATE RGOS
explicit authorization to connect to resources	IPL RGOS
CONPAO	LINK RGOS
specifying target system security information in	MDISK RGOS
CONPAO	OPTION RGOS
using combined VM/SP HPO and VM/XA SP	restriction RGOS
ADMIN	SPECIAL RGOS
using DIRMAINT with ADMIN	SPOOL RGOS
writing files to CMSUG	USER RGOS
directory control statements	DIRECTORY directory control statement
ACCOUNT PLNGDE	PLNGDE
ACIGROUP ADMIN, PLNGDE	operands PLNGDE
APPCPASS PLNGDE	alt-vaddr <b>PLNGDE</b>
CLASS PLNGDE	cpuid PLNGDE
CONSOLE PLNGDE	devtype PLNGDE
DASDOPT ADMIN, PLNGDE	EDIT PLNGDE
DEDICATE PLNGDE	sysafnid PLNGDE
first-level VM system	vaddr <b>PLNGDE</b>
CONSOLE RGOS	volid <b>PLNGDE</b>
OPTION RGOS	Directory Maintenance Program Product INTRO
restriction RGOS	See DMPP (Directory Maintenance Program
SPECIAL RGOS	Product)
USER RGOS	DIRECT, CMS command RGOS
for creating PLNGDE	dirid CMSUG
for IUCV SFPROG	DIRID operand
INCLUDE PLNGDE	definition CMSREF
IPL PLNGDE	dirid, variable
IUCV PLNGDE	described GENCMD, SYSCMD
LINK PLNGDE	DIRLIST command CMSLOT, CMSREF,
list of PLNGDE	CMSUG, PRIMER
LOAD PLNGDE	DIRLIST display, PF key functions CMSUG
MDISK PLNGDE	DIRMAINT command ADMIN
MINIOPT ADMIN DI NODE	USAS INTDO

DIRMAINT (Virtual Machine/Directory	discarding
Maintenance Licensed Program)	a file PRIMER
See also DMPP (Directory Maintenance	from file space CMSLOT
Program Product)	from reader CMSLOT
DIRMAINT command ADMIN	or directory CMSLOT, PRIMER
uses, INTRO	a reader file PRIMER
DIRMAINT DATA file statements	directories ADRCMS
(DIRMAINT) ADMIN	files, aliases
MIXED = statement ADMIN	command environments CMSUG
dirname CMSUG, INTRO	DMSERASE routine ADRCMS
disable	FSERASE macro ADRCMS
external tracing GCSREF	DISCONN command CMSUG, GENCMD, RGOS
tracing of GTRACE events GCSREF	described GENCMD
DISABLE ALL operand	example of use INTRO
of NETWORK command SYSCMD	operand
DISABLE command	HOLD GENCMD
described SYSCMD	responses GENCMD
operands	usage notes GENCMD
ALL SYSCMD	disconnected TERMREF
Laddr SYSCMD	console INTRO
raddr SYSCMD	full screen switched to line mode XEDIT
SNA userid SYSCMD	mode SFSAD
responses SYSCMD	reconnecting text terminal TERMREF
summary OPGDE, SYSCMD	disconnecting
syntax diagram, class A or B SYSCMD	an XEDIT session XEDIT
usage notes SYSCMD	virtual console GENCMD
disable locks SFSAD	virtual machine GENCMD
checking status of SFSAD	logging off your virtual machine <b>GENCMD</b>
creating SFSAD	your terminal CMSUG, TERMREF
deleting SFSAD	discontiguous saved segments (DCSS)
DMSDISFS Disable File Space routine SFSAD	See saved segments
DISABLE operator command SFSAD	discontinuing access to EXEC in saved segment
as used in removing file pool minidisks SFSAD	CMSUG
use of, after media failure SFSAD	disk APGDE
DISABLE resid operand	See also minidisks
of NETWORK command SYSCMD	access control SECUR
disabled wait state DIAG	access in RACF SECUR
CP DIAG	accessing CMSREF
virtual machine DIAG	allocating space for CP use ADMIN, SFPROG
disabling	erasing files from CMSREF
external tracing CONPAO	extents ADGCMS
internal tracing CONPAO	failures
the primary console <b>OPGDE</b>	allowing partial file pool access after SFSAD
DISCARD command CMSUG, INTRO, PRIMER	recovering from SFSAD
used on DIRLIST display CMSLOT	
used on FILELIST display CMSLOT	
used on PEEK CMSLOT	
used on RDRLIST display CMSLOT	

Refer to the foldout page at the back of this book for a chart of abbreviations and their corresponding manuals.

file ADRCMS	DISK command
See also files	description CMSREF
reading records from ADRCMS	DUMP operand CMSREF, CMSUG
using for backups SFSAD	LOAD operand CMSREF, CMSUG
writing records to ADRCMS	restricted in job for CMS batch facility
file I/O ADGCMS	CMSUG
a sample program ADGCMS	loading files CMSUG
closing files ADGCMS	DISK device type APGDE
contents of the file system control block	disk error, SVC 199 services IPCSREF
ADGCMS	DISK operand
creating a file system control block ADGCMS	of ASSEMBLE command CMSREF
end-of-file checking ADGCMS	of DOSLIB command CMSREF
erasing files ADGCMS	of DOSLKED command CMSREF
mapping a file system control block ADGCMS	of DSERV command CMSREF
modifying a file system control block ADGCMS	of FILEDEF command CMSREF
overview ADGCMS	of LKED command APGDE, CMSREF
reading disk files, examples ADGCMS	of LOADLIB command CMSREF
updating files ADGCMS	of MACLIB command CMSREF
writing disk files, examples ADGCMS	of MACLIB command MAP function APGDE
for spool buffering OPGDE	of PSERV command CMSREF
formats	of TXTLIB command APGDE
CP ADMIN	of SET command SYSCMD
formatting ADMIN, CMSREF	use with FILEDEF command CMSREF
FULLPROMPT option CMSREF	Disk Operating System (DOS)
initialization ADMIN	See DOS (Disk Operating System)
labels for file pool minidisks SFSAD	DISKID function
MINPROMPT option CMSREF	obtaining minidisk information ADRCMS
NOPROMPT option CMSREF	PLIST ADRCMS
NOREPLACE option CMSREF	usage ADRCMS
read-only, exporting VSAM files from ADGCMS	using CP DASD Block I/O System Service
read/write, sharing CMSREF	ADRCMS
releasing GCSREF	DISKMAP EXEC PLNGDE
effect on logical unit assignments in CMS/DOS	DISKR option of EXECIO command CMSREF
CMSREF	DISKW option of EXECIO command CMSREF
when DLBL definitions are active CMSREF	DISP MOD option of FILEDEF command
REPLACE option CMSREF	ADGCMS
space	DISP option of FILEDEF command CMSREF
accounting for use of SFSAD	DISP (keyword definition) IPCSREF
adding to the file pool SFSAD	dispatch
allocating to users SFSAD	list ADMIN, SYSMSG
changing amounts allocated to users SFSAD	list algorithm <b>OPGDE</b> , <b>SYSCMD</b>
directing control data backups to SFSAD	queue DIAG
increasing file pool limit of SFSAD	request queue ADMIN, SYSMSG
managing SFSAD	dispatcher
monitoring consumption of SFSAD	definition ADMIN, SYSMSG
querying a user's allocation SFSAD	dispatcher (type X'01') entry <b>DIAG</b>
removing from file pool SFSAD	dispatcher/scheduler favoring scheme
setting warning threshold for SFSAD	definition ADMIN, SYSMSG
temporary ADGCMS	dispatching priority
virtual permanent GENCMD	recommendation for SFSAD
virtual temporary GENCMD	replacing directory entry SFPROG
volumes	display
formatting ADMIN, SFPROG	devices, configuration aid <b>PLNGDE</b>
labeling ADMIN, SFPROG	features XEDITUG
lauching Adivini, SFFRUG	full-screen, in XEDIT CMSUG
	run-screen, in <b>Aedii</b> Cwisug

panel formatter APGDE screens panel manager APGDE See also console I/O layout TERMREF, XEDITUG parameter list APGDE prototyping with EXECs APGDE status notices CMSUG storage SYSCMD write full screen APGDE suppress function SECUR DISPLAY operand of MONITOR command SYSCMD terminals characteristics CMSUG of NETWORK command SYSCMD entering commands CMSUG **DISPLAY** option example of display screen CMSUG of EXTRACT XEDIT Extended highlight feature CMSUG of QUERY XEDIT line-mode CMSUG of SET XEDIT retrieving previously entered data CMSUG DISPLAY service of ISPF APGDE setting PF keys CMSUG DISPLAY SM APGDE signalling interruptions CMSUG DISPLAY subcommand DIAG using in full screen mode XEDIT of IPCSSCAN command using in line mode XEDIT description IPCSREF DISPLAY command ADMIN, APGDE, CMSUG, example outputs IPCSREF DIAG, GENCMD format IPCSREF as debugging aid INTRO functional category IPCSREF described **GENCMD** messages IPCSREF of DMS/CMS APGDE operands IPCSREF operands responses IPCSREF CAW GENCMD usage notes IPCSREF **CSW GENCMD** displaying CMSLOT elementcount GENCMD a document PRIMER element1 GENCMD a file on your screen PRIMER, SPIUG element2 GENCMD a reader file PRIMER END GENCMD a variable size window CMSREF Greg GENCMD a window CMSREF hexloc GENCMD accounting information GENCMD PSW GENCMD regcount GENCMD dump information DIAG VAC GENCMD information CONPAO VMR GENCMD trace records DIAG VP GENCMD changed lines **XEDIT** VR GENCMD channel address word (CAW) GENCMD vregcount **GENCMD** channel status word (CSW) GENCMD vreg1 GENCMD contention for vreg2 GENCMD processor resources SYSCMD VSR GENCMD storage SYSCMD Xreg GENCMD system resources SYSCMD Yreg GENCMD commands available to a user ADMIN responses **GENCMD** data SPIREF usage notes **GENCMD** from a macro XEDITUG DISPLAY LINE APGDE in hexadecimal XEDIT Display Management System for CMS (DMS/CMS) on a 3270 console screen SFPROG APGDE, INTRO directories of VSE libraries ADGCMS COPY EUDCOBOL statement APGDE DLBL definitions ADGCMS EXEC 2 commands APGDE dump information CONPAO

excluded lines XEDIT	register pairs GENCMD
extended control registers GENCMD	registers GENCMD
floating-point registers GENCMD	status register APGDE, GENCMD
general registers GENCMD	virtual storage GENCMD
HELP menus XEDITUG	virtual storage locations GENCMD
how much Vector Facility resource your virtual	virtual data DIAG
machine is using APGDE	virtual machine data DIAG
internal trace table SYSCMD	DisplayWrite/370 GIM, INTRO
line numbers on screen XEDIT, XEDITUG	disposition of spool files CMSUG
lines on typewriter terminal XEDITUG	DISPW macro ADRCMS
lines using TYPE XEDIT	DIST distcode operand
list	of CHANGE command GENCMD
of CMS files CMSUG	of SPOOL command GENCMD
of files CMSLOT, PRIMER	DIST operand
of reader files CMSLOT	of CHANGE command SYSCMD
listings from access method services ADGCMS	of CLOSE command GENCMD
message numbers SYSMSG	distcode operand
messages	of CHANGE command SYSCMD
at terminal SYSMSG	of CLOSE command GENCMD
in languages other than American English	distcode, variable
SYSMSG	described GENCMD, SYSCMD
in translation SYSMSG	DISTINCT keyword of SQL APGDE
on editor screen XEDITUG	distributed data processing (DDP)
text CMSREF	See DDP (distributed data processing)
using CMSG XEDIT	distributed system INTRO
using EMSG XEDIT	DDP defined INTRO
using MSG XEDIT	description INTRO
more than one file XEDITUG	requirements INTRO
multiple views CMSUG	use of the programmable operator SFPROG
page migration activity ADMIN	distribution code
Paging Storage ADMIN	defining in the directory <b>PLNGDE</b>
paging variables ADMIN	for output files GENCMD
PF key settings PRIMER	distribution list CMSLOT
program status word (PSW) GENCMD	distribution word, replacing directory entry
real CP data DIAG	SFPROG
screens of data CMSUG	dividing numbers EXEC2
setting of editing options XEDIT	dividing screen XEDITUG
SRM variables ADMIN	division SPIUG
storage keys GENCMD	definition SPIREF
system load GENCMD	operator SPIREF, SPIUG
tab settings CMSLOT, PRIMER, XEDITUG	DL operand of CPTRAP command DIAG
in typewriter mode XEDITUG	DLBL command GCSREF
the WM window CMSREF	assigning file mode numbers CMSUG
trace records CONPAO	bufsp operand GCSREF
TSAF	CAT operand CMSREF, GCSREF
dump information DIAG	change operand GCSREF
link information CONPAO	CHANGE option CMSREF
routing information CONPAO	clear operand GCSREF
use of	CLEAR option CMSREF
processor resources SYSCMD	CMS operand ADGCMS
system resources SYSCMD	CMS option CMSREF
vector	ddname operand GCSREF
activity count APGDE	ddname restrictions (OS users) CMSREF
activity counter GENCMD	default file definitions ADGCMS
mask register APGDE, GENCMD	description ADGCMS, CMSREF, GCSREF

displaying volumes on which all multivolume converting data sets reside CMSREF a DLCS file CMSREF displaying VSAM data set extents CMSREF files from an EXEC CMSREF dsn operand GCSREF from XEDIT CMSREF DSN? operand ADGCMS example CMSREF DSN option CMSREF output files from conversion CMSREF **DUMMY option CMSREF** utility files CMSREF entering DLS mode (3380 two-path strings) before program execution ADGCMS hardware configuration ADMIN OS data set names CMSREF DMKRIO example ADMIN the SYSxxx operand CMSREF DLSE mode (3380 four-path strings) VSE file ID CMSREF hardware configuration ADMIN **EXTENT option CMSREF** DL/I programs in CMS/DOS ADGCMS restrictions ADGCMS how to use in CMS/DOS ADGCMS identifying VSAM data sets ADGCMS DMCP command DIAG identifying VSAM data sets on CMS/DOS described SYSCMD **ADGCMS** operands IJSYSCT ddname ADGCMS bytecount SYSCMD mode operand GCSREF END SYSCMD mult operand GCSREF hexloc1 SYSCMD MULT option CMSREF hexloc2 SYSCMD nochange operand GCSREF Lhexloc1 SYSCMD NOCHANGE option CMSREF Mhexloc1 SYSCMD MLhexloc1 SYSCMD options **BUFSP ADGCMS** MThexloc1 SYSCMD CAT ADGCMS Nhexloc1 SYSCMD **EXTENT ADGCMS** NLhexloc1 SYSCMD **MULT ADGCMS** NThexloc1 SYSCMD Thexloc1 SYSCMD VSAM ADGCMS perm operand GCSREF 0 SYSCMD PERM option CMSREF \*dumpid SYSCMD qual operand GCSREF responses SYSCMD relationship to ASSGN command ADGCMS summary OPGDE, SYSCMD specifying extents in CMS/DOS ADGCMS syntax diagram, class C or E SYSCMD specifying multiple extents ADGCMS usage notes SYSCMD SYSxxx option ADGCMS, CMSREF **DMKBOX ASSEMBLE** to identify files for AMSERV CMSREF function INST VSAM option CMSREF loading sample file INST when to use (OS users) CMSREF tailoring INST vsam operand GCSREF updating for the second-level system RGOS ? operand GCSREF DMKCFC (console function) support ADMIN **DLBL** definitions DMKCPEND (end of CP resident nucleus) DIAG cleared by ESERV command CMSREF **DMKDDR** clearing CMSREF See DDR (DASD DUMP/Restore) program entering in a CMS EXEC procedure ADGCMS DMKDIR directory program SFPROG using the HX command ADGCMS invoking under CMS PLNGDE DLCS (Definition Language for Command Syntax) DMKDMP DIAG **CMSUG** 

Refer to the foldout page at the back of this book for a chart of abbreviations and their corresponding manuals.

checking for DLCS coding errors CMSREF

DMKFCB ASSEMBLE KGUS	preparing PLNGDE
function INST	sample
loading sample file INST	for 3350 PLNGDE
tailoring INST	for 3375 PLNGDE
DMKFMT	for 3380 PLNGDE
See Format/Allocate service program	for 3380-E4 PLNGDE
DMKFRE DIAG	updating for the second-level VM system RGOS
DMKFRT DIAG	updating for the VSE system RGOS
DMKLD00E	DMKSNT ASSEMBLE
See loader	function INST
DMKMSS	loading sample file INST
mass storage system error messages OPGDE	tailoring INST
DMKPIA ASSEMBLE	using SNTMAP EXEC to verify changes INST
function INST	DMKSP CNTRL
loading sample file INST	contents SERV
tailoring INST	function SERV
DMKPIB ASSEMBLE	DMKSPA CNTRL
function INST	contents SERV
loading sample file INST	function SERV
tailoring INST	DMKSPAT CNTRL
DMKRIO (real I/O configuration file) ADMIN,	contents SERV
CONPAO	function SERV
considerations	using to install CP FRET Trap option INST
MVS stage 1 input RGOS	DMKSPMT CNTRL
MVS virtual machine RGOS	contents SERV
when defining tape drives RGOS	function SERV
defined INTRO	
	using to install CP FRET Trap option INST
four-path strings DMKRIO example ADMIN	DMKSPT CNTRL
preparing for system generation PLNGDE	contents SERV
RCHANNEL macro ADMIN, PLNGDE	function SERV
RCTLUNIT macro ADMIN, PLNGDE	using to install CP FRET Trap option INST
RDEVICE macro ADMIN, PLNGDE	DMKSTA DIAG
RIOGEN macro PLNGDE	DMKSYS ASSEMBLE
sample	defined INTRO
for 3350 PLNGDE	function INST
for 3375 PLNGDE	loading INST
for 3380 PLNGDE	performance considerations for coding PLNGDE
sequence of macros PLNGDE	preparing system control file PLNGDE
TERMINAL macro PLNGDE	supplied with starter systems PLNGDE
two-path strings DMKRIO example ADMIN	SYSOWN macro PLNGDE
updating, for	SYSPAG macro PLNGDE
second-level VM system RGOS	SYSRES macro PLNGDE
VSE system RGOS	SYSXSTOR macro PLNGDE
DMKRIO ASSEMBLE	tailoring INST
function INST	updating for the second-level VM system RGOS
loading sample file INST	DMKUCB ASSEMBLE
tailoring INST	function INST
DMKSNT (system name table) ADMIN, PLNGDE	loading sample file INST
creating your own version PLNGDE	tailoring INST
defined INTRO	DMKUCC ASSEMBLE
NAMELANG macro PLNGDE	function INST
NAMENCP macro PLNGDE	loading sample file INST
NAMESYS macro PLNGDE	tailoring INST
NAME3800 macro PLNGDE	

**DMKUCS ASSEMBLE** function INST loading sample file INST tailoring INST DMMDSC IPCSREF DMMFEDLN entry point IPCSREF **DMMSP CNTRL** contents SERV function SERV DMMTAB communication table DIAG DMMTSC module IPCSREF DMMTSCCT routine IPCSREF DMPINREC DIAG, IPCSREF DMPKYREC1 DIAG DMPKYREC2 DIAG DMPP (Directory Maintenance Program Product) **SECUR** access control access list for minidisks SECUR auto-deactivation of restricted passwords **ADRCMS SECUR** password management SECUR **ADRCMS** access control by DMPP directory integrity SECUR access control by user SECUR disk access control SECUR DMSABN (abend routine) macro DIAG abending a program ADRCMS forcing an abend ADGCMS **ADRCMS** TYPCALL = operand ADRCMS DMSCCE (Calling a REXX EXEC) general format ADRCMS multiple variables in an argument string **ADRCMS** use for invoking CP or CMS commands **ADRCMS ADRCMS** use for issuing FILEDEF command ADRCMS **ADRCMS** DMSCDR (Drop a REXX Variable) general format ADRCMS DMSCGR (Get a REXX Variable) general format ADRCMS specifying qualifiers of variable name ADRCMS DMSCGS (Get Special REXX Values) general format ADRCMS DMSCGX (Get the Next REXX Variable) calls that cause search to restart ADRCMS general format ADRCMS **ADRCMS** specifying qualifiers of variable names ADRCMS DMSCHECK (SFS Check)

DMSCLBLK (SFS Close Blocks) SFSAD DMSCLCAT (SFS Close Catalog) SFSAD duplication of userids while using SFSAD general format SFSAD DMSCLDIR (SFS Close Directory) ADGCMS COMMIT parameter ADRCMS general format ADRCMS NOCOMMIT parameter ADRCMS DMSCLOSE (SFS Close) ADGCMS COMMIT parameter ADRCMS NOCOMMIT parameter ADRCMS **DMSCOMM (SFS Commit)** general format ADRCMS rollback considerations ADRCMS DMSCPYBF (SFS Copy Buffer) SFSAD DMSCRALI (SFS Create Alias) ADGCMS authority considerations ADRCMS COMMIT parameter ADRCMS creating an alias in the same directory creating an alias on a locked file/directory general format ADRCMS NOCOMMIT parameter ADRCMS pointer to base file ADRCMS **DMSCRDIR (SFS Create Directory)** COMMIT parameter ADRCMS creating subdirectory in locked directory general format ADRCMS NOCOMMIT parameter ADRCMS DMSCRLOC (SFS Create Lock) ADGCMS authority considerations ADRCMS creating an alias on a locked file/directory Disable routines that override lock created EXCLUSIVE parameter ADRCMS LASTING parameter ADRCMS SESSION parameter ADRCMS SHARE parameter ADRCMS UPDATE parameter ADRCMS DMSCSL routine ADGCMS DMSCSR (Set a REXX Variable) general format ADRCMS passing values to an application program required specification of qualifiers ADRCMS

Refer to the foldout page at the back of this book for a chart of abbreviations and their corresponding manuals.

rollback considerations ADRCMS

DMSDAC logical saved segment function INST installing INST DMSDELOC (SFS Delete Lock) ADGCMS general format ADRCMS specifying an alias name ADRCMS who may delete a lock ADRCMS DMSDEUSR (SFS Delete User) SFSAD administrator authority required SFSAD conditions that can cause failure SFSAD general format SFSAD DMSDISFS (SFS Disable File Space) SFSAD as used with Disable Storage Group SFSAD authority considerations SFSAD duration of SFSAD use with file/directory locks SFSAD DMSDISSG (SFS Disable Storage Group) SFSAD as used with Disable File Space SFSAD duration of SFSAD DMSENAFS (SFS Enable File Space) SFSAD valid userids for SFSAD DMSENASG (SFS Enable Storage Group) SFSAD relinking considerations SFSAD valid userids for SFSAD DMSENUSR (SFS Enroll User) SFSAD DMSERASE (SFS Erase) ADGCMS COMMIT parameter ADRCMS conditions preventing erasure ADRCMS FILES parameter ADRCMS general format ADRCMS handling aliases ADRCMS NOCOMMIT parameter ADRCMS who may enter an Erase ADRCMS DMSERP (Extract/Replace) description of ADGCMS extracting system information ADRCMS general format ADRCMS RESET function ADRCMS sample of ADGCMS DMSEXE085E EXEC2 DMSEXE175E EXEC2 DMSEXE255T EXEC2 DMSEXIDI (SFS Exist-Directory) ADGCMS COMMIT parameter ADRCMS NOCOMMIT parameter ADRCMS read authority required ADRCMS DMSEXIFI (SFS Exist—File) ADGCMS COMMIT parameter ADRCMS

DMSEXIST (SFS Exist) ADGCMS COMMIT parameter ADRCMS NOCOMMIT parameter ADRCMS read authority required ADRCMS DMSEXS macro ADRCMS DMSFILEC (SFS Filecopy) COMMIT parameter ADRCMS general format ADRCMS NEWDATE parameter ADRCMS NOCOMMIT parameter ADRCMS OLDDATE parameter ADRCMS REPLACE parameter ADRCMS DMSFREE macro ADGCMS, ADRCMS, **CMSMIG** comparison to CMSSTOR CMSMIG DMSFRES macro ADGCMS, ADRCMS, **CMSMIG** DMSFRET macro ADGCMS, ADRCMS, **CMSMIG** comparison to CMSSTOR CMSMIG DMSFST macro format of ADGCMS FORM = E operand ADRCMS DMSGETDA (SFS Get Directory—Searchall) F parameter ADRCMS general format ADRCMS V parameter ADRCMS DMSGETDD (SFS Get Directory—Dir) general format ADRCMS DMSGETDF (SFS Get Directory—File) F parameter ADRCMS general format ADRCMS V parameter ADRCMS DMSGETDI (SFS Get Directory) ADGCMS general format ADRCMS DMSGETDK (SFS Get Directory—Lock) general format ADRCMS DMSGETDL (SFS Get Directory—Alias) general format ADRCMS DMSGETDS (SFS Get Directory—Searchauth) D parameter ADRCMS F parameter ADRCMS general format ADRCMS V parameter ADRCMS DMSGETDT (SFS Get Directory—Auth) general format ADRCMS DMSGETFM (Get Filemode) general format ADRCMS DMSGETWU (Get Workunitid) ADGCMS general format ADRCMS DMSGRANT (SFS Grant Authority) ADGCMS COMMIT parameter ADRCMS general format ADRCMS NOCOMMIT parameter ADRCMS

F parameter ADRCMS

V parameter ADRCMS

NOCOMMIT parameter ADRCMS

read authority required ADRCMS

PUBLIC parameter ADRCMS READ parameter ADRCMS TO parameter ADRCMS who may grant authorities ADRCMS WRITE parameter ADRCMS DMSIBM POOLDEF file SFSAD DMSITP DIAG DMSJNE routine SFSAD DMSJNEPL macro SFSAD DMSLAD module ADGCMS DMSMSP CNTRL contents SERV function SERV DMSNGP ASSEMBLE file SFSAD function INST loading sample file INST tailoring considerations INST DMSOME IPCSREF DMSOPBLK (SFS Open Blocks) SFSAD DMSOPCAT (SFS Open Catalog) SFSAD DMSOPDIR (SFS Open Directory) ADGCMS ALIAS parameter ADRCMS AUTH parameter ADRCMS DIR parameter ADRCMS FILE parameter ADRCMS general format ADRCMS implicit lock considerations ADRCMS LOCK parameter ADRCMS reflecting changes to directory ADRCMS SEARCHALL parameter ADRCMS SEARCHAUTH parameter ADRCMS DMSOPEN (SFS Open) ADGCMS CACHE parameter ADRCMS F parameter ADRCMS general format ADRCMS NEW parameter ADRCMS NOCACHE parameter ADRCMS READ parameter ADRCMS REPLACE parameter ADRCMS V parameter ADRCMS when a lock causes Open to fail ADRCMS when you can view uncommitted changes **ADRCMS** DMSPARMS file SFSAD creating during generation SFSAD

DMSPOPWU (Pop Default Workunitid) ADGCMS ALL parameter ADRCMS general format ADRCMS system default may not be popped ADRCMS DMSPOR programmable operator action routine **SFPROG** DMSPOS programmable operator action routine **SFPROG** DMSPURWU (Purge Workunitid) FORCE parameter ADRCMS general format ADRCMS DMSPUSWU (Push Default Workunitid) **ADGCMS** general format ADRCMS multiple pushes ADRCMS must be obtained by a Get Workunitid **ADRCMS** DMSQCONN (SFS Query Connect) connect authority for file pool required **ADRCMS** general format ADRCMS DMSQFMOD (Query Filemode) buffer length requirement ADRCMS general format ADRCMS DMSQLIM (SFS Query Limits) SFSAD DMSQLIMD (SFS Query Limits—Deblocker) DMSQLIMU (SFS Query Limits—Single User) authority required ADRCMS FOR parameter ADRCMS general format ADRCMS DMSRDBLK (SFS Read Blocks) SFSAD DMSRDCAT (SFS Read Catalog) SFSAD DMSREAD (SFS Read) ADGCMS end-of-file warning ADRCMS general format ADRCMS support for variable-length records ADRCMS truncation warning ADRCMS DMSRELBK (SFS Release Blocks) SFSAD **DMSRELOC (SFS Relocate)** conditions that cause a Relocate to fail **ADRCMS** general format ADRCMS relocating a locked file or directory ADRCMS who may issue a Relocate ADRCMS DMSRENAM (SFS Rename) cascade effect of renaming a subdirectory

Refer to the foldout page at the back of this book for a chart of abbreviations and their corresponding manuals.

for VMSYS and VMSYSU SFSAD

**SFPROG** 

specifying start-up parameters within SFSAD

DMSPOL programmable operator action routine

COMMIT parameter ADRCMS general format ADRCMS

**ADRCMS** 

locked files ADRCMS	DMS5JC EXEC SERV
NOCOMMIT parameter ADRCMS	DMS5JD EXEC SERV
only owner may issue Rename ADRCMS	DMS5JG EXEC SERV
open files or subdirectories ADRCMS	DMS/CMS (Display Management System
DMSREVOK (SFS Revoke Authority) ADGCMS	for CMS) APGDE, INTRO
ALL parameter ADRCMS	commands APGDE
COMMIT parameter ADRCMS	COPY EUDCOBOL statement APGDE
FROM parameter ADRCMS	EXEC 2 commands APGDE
general format ADRCMS	panel formatter APGDE
KEEPREAD parameter ADRCMS	panel manager APGDE
locked file considerations ADRCMS	parameter list APGDE
NOCOMMIT parameter ADRCMS	prototyping with EXECs APGDE
open file or directory ADRCMS	write full screen APGDE
owner alone has revoke authority ADRCMS	DO FOREVER instruction SPIUG
PUBLIC parameter ADRCMS	DO instruction SPIREF
DMSROLLB (SFS Rollback)	See also loops
general format ADRCMS	BY expression SPIUG
DMSSAC logical saved segment	conditional loop SPIUG
function INST	control variable SPIUG
	DO FOREVER instruction SPIUG
installing INST DMSSIG IPCSREF	DO UNTIL instruction SPIUG
DMSSP CNTRL	DO WHILE instruction SPIUG
contents SERV	END keyword SPIUG
function SERV	ITERATE instruction SPIUG
DMSSP MACLIB ADGCMS, APGDE	LEAVE instruction SPIUG
DMSTVS module ADGCMS	non-looping SPIUG
DMSVSR command CMSUG	repetitive loops SPIUG
DMSWRACC (SFS Write Accounting Record)	DO UNTIL instruction SPIUG
SFSAD	DO WHILE instruction SPIUG
DMSWRBLK (SFS Write Blocks) SFSAD	DOC FAILURE code (keyword definition)
DMSWRCAT (SFS Write Catalog) SFSAD	IPCSREF
DMSWRITE (SFS Write) ADGCMS	DOC operand of STAT command IPCSREF
beginning position in file ADRCMS	DOC (keyword definition) IPCSREF
general format ADRCMS	DOCNO (keyword definition) IPCSREF
variable-length records ADRCMS	document
DMSWUERR (SFS Wuerror Deblocker)	preparation INTRO
general format ADRCMS	proofreading INTRO
DMS1151E message SFSAD	using PROFS INTRO
DMS1174E message SFSAD	Document Composition Facility (DCF) CMSLOT,
DMS2AB accounting exit routine SFSAD	INTRO, PRIMER
DMS3029I message SFSAD	does a problem exist? DIAG
DMS3216E message SFSAD	DOS option
DMS3217E message SFSAD	of GENMOD command CMSREF
DMS3292I message SFSAD	DOS (Disk Operating System)
DMS3294I message SFSAD	copying VSE macros into CMS MACLIB INST
DMS3500I message SFSAD	core image library ADGCMS
DMS3701I message SFSAD	creating CMS files ADGCMS
DMS3913E message SFSAD	declarative macros
DMS3922I message SFSAD	DTFCD ADGCMS, ADRCMS
DMS3XJ EXEC SERV	DTFCN ADGCMS, ADRCMS
DMS3XK EXEC SERV	DTFDI ADGCMS, ADRCMS
DMS446R message SFSAD	DTFMT ADGCMS, ADRCMS
DMS5JA EXEC SERV	DTFPR ADGCMS, ADRCMS
DMS5JB EXEC SERV	DTFSD ADGCMS, ADRCMS
	,

disks DOSLKED command accessing ADGCMS, CMSREF description CMSREF compatibility with OS disks ADGCMS description of ADGCMS determining free space ADGCMS DISK option CMSREF formatting using DSF ADGCMS PRINT option CMSREF using with AMSERV ADGCMS TERM option CMSREF DOSMAP EXEC INST using ADGCMS files DOSLNK files listing information CMSREF used by DOSLKED command ADGCMS used in CMS/DOS ADGCMS specifying FILEDEF options for CMSREF used in CMS ADGCMS DOSLNK filetype for transient routines ADGCMS CMS/DOS linkage editor input CMSREF creating CMSREF hardware devices supported ADGCMS imperative macros ADGCMS, ADRCMS DOSMAC EXEC INTRO libraries copying VSE macros into CMSMACLIB INST DOSMACRO MACLIB ADGCMS, APGDE executing phases from ADGCMS link-editing modules from ADGCMS DOSPLI command ADGCMS size considerations ADGCMS DOSPOINT subcommand of IPCSSCAN command macros supported in CMS ADGCMS, ADRCMS description IPCSREF restrictions on reading in CMS ADGCMS example output IPCSREF simulation in CMS ADGCMS format IPCSREF support of physical IOCS macros ADGCMS, functional category IPCSREF **ADRCMS** messages IPCSREF terminal sessions ADGCMS responses IPCSREF virtual = real storage assignments **OPGDE** usage note IPCSREF VMFDOS commands, creating CMS files DOS/VSE simulation using CMSDOS segment containing VSE modules INST **INST** VSE macros under CMS ADGCMS, ADRCMS double hold status DOSGEN EXEC INTRO removing spool files from it SYSCMD function INST double-byte character set (DBCS) XEDIT installing CMSDOS saved segment INST double-byte character set (DBCS) strings SPIREF **DOSLIB** command DOWN command CMSLOT, PRIMER COMP option CMSREF DOWN subcommand of XEDIT command compressing DOSLIBs ADGCMS **XEDIT, XEDITUG** DEL option CMSREF example of XEDITUG description ADGCMS, CMSREF in typewriter mode XEDITUG DISK option CMSREF practice exercise using XEDITUG DOWN subcommand of IPCSSCAN command adding phases to CMSREF description IPCSREF fetching phases from CMSREF example output IPCSREF identifying for fetching CMSREF format IPCSREF listing information about members CMSREF functional category IPCSREF output file mode CMSREF messages IPCSREF size considerations CMSREF operand IPCSREF space considerations CMSREF response IPCSREF MAP option CMSREF usage notes IPCSREF PRINT option CMSREF DPA operand option of INDICATE command SYSCMD of the INDICATE command ADMIN of GLOBAL command CMSREF TERM option CMSREF

DPA (dynamic paging area)	generated for Parser Validation Code Table
definition ADMIN, SYSMSG	entry ADRCMS
DPMSIZE operand	using PVCENTRY macro ADRCMS
of RDEVICE macro PLNGDE	DSERV command
DRAIN command INTRO, RGOS	ALL operand CMSREF
described SYSCMD	CD operand CMSREF
operands	creating MAP files ADGCMS
ALL SYSCMD	description CMSREF
lprt SYSCMD	description of ADGCMS
PRINTER SYSCMD	DISK option CMSREF
PUNCH SYSCMD	examples ADGCMS
raddr SYSCMD	PD operand CMSREF
READER SYSCMD	PRINT option CMSREF
responses SYSCMD	RD operand CMSREF
summary OPGDE, SYSCMD	SD operand CMSREF
syntax diagram, class D SYSCMD	SORT option CMSREF
usage notes SYSCMD	TD operand CMSREF
drawing boxes CMSUG	TERM option CMSREF
Drop a REXX Variable (DMSCDR)	DSF EXEC RGOS
general format ADRCMS	DSMPROF3 specified in SCRIPT command
DROP command SECUR	CMSLOT
DROP INDEX command of SQL APGDE	DSN operand of DLBL command ADGCMS
DROP instruction SPIREF, SPIUG	DSN option of DLBL command CMSREF
DROP TABLE command of SQL APGDE	dsname operand
DROP VIEW command of SQL APGDE	of CHANGE command SYSCMD
DROP WINDOW command CMSUG	of CLOSE command GENCMD
description CMSREF	dsname, variable
format CMSREF	described GENCMD, SYSCMD
messages CMSREF	DSORG option of FILEDEF command
operands	ADGCMS, APGDE, CMSREF
n CMSREF	DSPLY operand of PRB command IPCSREF
WM CMSREF	DSPSLICE operand
wname CMSREF	of QUERY command SYSCMD
* (asterisk) CMSREF	of SET command SYSCMD
= (equal sign) CMSREF	DSS operand
usage notes CMSREF	of VMDUMP command GENCMD
DROPBUF command APGDE, SPIUG	DTFCD macro ADGCMS, ADRCMS
description CMSREF	DTFCN macro ADGCMS, ADRCMS
using CMSREF	DTFDI macro ADGCMS, ADRCMS
dropping	DTFMT macro ADGCMS, ADRCMS
a window CMSREF, PRIMER	DTFPR macro ADGCMS, ADRCMS
EXECS and editor macros from storage	DTFSD macro ADGCMS, ADRCMS
CMSREF	DTRIPF command, example of use INTRO
the WM window CMSREF, PRIMER	dual address space assist
variables SPIUG	support enabled or disabled SYSCMD
DRUM operand	dual processor
of SET command SYSCMD	definition ADMIN, SYSMSG
DSCB (Data Set Control Block) ADGCMS	dummy data set name specified on FILEDEF
DSECT	command ADGCMS
for file system control block (FSCB) ADRCMS	dummy instruction SPIREF, SPIUG
generated for PARSECMD control block	DUMMY operand
ADRCMS	HNDEXT macro ADRCMS
using PARSERCR macro. ADRCMS	

of DLBL command	restrictions RGOS
restrictions for OS VSAM user CMSREF	single processor mode RGOS
using in CMS/DOS CMSREF	stand-alone RGOS
of FILEDEF command CMSREF	SVC RGOS
DUMP	second-level VM system RGOS
address parameter list SFPROG	VSE/SP virtual machine RGOS
data <b>DIAG</b>	DUMP raddr operand
data used by IPCS INTRO	of NETWORK command SYSCMD
debugging IPCSREF	of SPTAPE command SYSCMD
file conversion IPCSREF	DUMP start-up parameter SFSAD
generation, automatic DIAG	DUMP subcommand of TESTCOB command
option	APGDE
of DISK command CMSREF	DUMPALL control statement for FILEPOOL
of OPTION command CMSREF	FORMAT AUDIT SFSAD
system ABEND OPGDE, SYSCMD	DUMPID subcommand of IPCSSCAN command
unit	description IPCSREF
for system failure <b>OPGDE</b>	example outputs IPCSREF
setting with the SET command SYSCMD	format IPCSREF
virtual machine data DIAG	functional category IPCSREF
DUMP command APGDE, CMSUG, DIAG,	messages IPCSREF
GENCMD	responses IPCSREF
described GENCMD	usage notes IPCSREF
operands	dumpid, variable
bytecount GENCMD	described GENCMD, SYSCMD
END GENCMD	dumping
hexloc GENCMD	considerations
*dumpid GENCMD	for control switch assist guest RGOS
responses GENCMD	CPTRAP files to tape IPCSREF
to print virtual storage DIAG	extended control registers GENCMD
usage notes GENCMD	facilities, GCS DIAG
DUMP control record, ZAP program	floating-point registers GENCMD
format SERV	general registers GENCMD
function SERV	guest virtual storage GENCMD
options SERV	storage locations GENCMD
usage notes SERV	to DASD DIAG
DUMP control statement	to printer <b>DIAG</b>
of DDR (DASD DUMP/Restore) ADMIN,	to tape DIAG
SFPROG	virtual storage GENCMD
DUMP operand	spool files SYSCMD
of IPCSPRT IPCSREF	reading SFPROG
of IPCSSCAN IPCSREF	virtual machine storage GCSREF
of QUERY command SYSCMD	dumps
of SET command OPGDE, SYSCMD	AVS CONPAO, DIAG
of TRAPFILE command IPCSREF	creating DIAG
DUMP procedure	diagnosing DIAG
MVS guest	displaying information DIAG
considerations RGOS	processing DIAG
defining enough space RGOS	CP DIAG
preferred machine assist RGOS	creating DIAG
restart dumps RGOS	definition DIAG

directory entry	names SPIUG
example PLNGDE	problem IPCSREF
of server storage SFSAD	DUPLICATE subcommand of XEDIT
information included in DIAG	command APGDE, XEDIT
locating the CP internal trace table DIAG	duplicating
obtaining a copy	a file <b>PRIMER</b>
communication controller DIAG	block of lines XEDIT
CP restart dump DIAG	lines CMSLOT, PRIMER, XEDITUG
virtual machine DIAG	using DUPLICAT XEDIT
problems helped by DIAG	using " (prefix subcommand) XEDIT
routing PLNGDE	strings SPIUG
stand-alone DIAG	DUPOF operand of PRB command IPCSREF
system trace data	duration of a lock CMSLOT, PRIMER
to diagnose AVS problems DIAG	DVOL1 function in tape command processing
to diagnose TSAF problems DIAG	CMSUG
TSAF CONPAO	DWORDS = operand
creating DIAG	CMSSTOR OBTAIN ADRCMS
diagnosing DIAG	CMSSTOR RELEASE ADRCMS
displaying information DIAG	dyadic, definition ADMIN, SYSMSG
printing DIAG	dynamic CP transition to or from native mode
processing DIAG	RGOS
types of DIAG	dynamic address translation INTRO, SECUR
used in problem determination DIAG	dynamic configuration CONPAO
DUMPSAVE (DMLDMP save area) DIAG	inoperational link CONPAO
DUP option	route failure CONPAO
of INCLUDE command CMSREF	dynamic loading APGDE
of LOAD command CMSREF	dynamic paging area
DUP output field of STAT command IPCSREF	definition of RGOS
DUPLICATE command CMSLOT	dynamically loading servers (SRPI macro) SRPI
of DMS/CMS APGDE	dynamically modified channel program restrictions
duplicate	PLNGDE
file names CMSLOT	D2C function SPIREF
file names or file types CMSUG	D2X function SPIREF

E	edit environment XEDITUG
<b>L</b>	in typewriter mode XEDITUG
E media subsemment VEDIT	EDIT EXEC S2 suppression of execution
E prefix subcommand XEDIT	CMSREF
E (exponent symbol) SPIUG EBCDIC	edit mode APGDE, XEDITUG
	in typewriter mode XEDITUG
of COPYFILE command CMSREF	returning from input mode CMSUG
order sorting XEDIT	EDIT service of ISPF APGDE
EC mode	EDIT subcommands supported in compatibility
definition ADMIN, SYSMSG	mode XEDIT
ECB (event control block)	EDIT (CMS Editor) TERMREF
format ADRCMS	editing
posting ADGCMS	a member of a MACLIB XEDIT
ECB = operand	CMS files CMSUG
HNDEXT macro ADRCMS	commands, help on how to use CMSLOT
ECHO command CMSUG, GENCMD	DBCS strings XEDIT
described GENCMD	defined XEDITUG
operands	in typewriter mode <b>XEDITUG</b>
nn GENCMD	editing symbols
1 GENCMD	logical line editing GENCMD, SYSCMD
responses GENCMD	error messages with DIAGNOSE code X'5C'
usage notes GENCMD	SFPROG
ECMODE operand DIAG, RGOS	files CMSLOT, PRIMER, TERMREF
directory option CONPAO	full-screen INTRO
of SET command GENCMD	multiple files PRIMER, XEDIT, XEDITUG
ecode parameter of SELECT subcommand IPCSREF	illustration of XEDITUG
ECPS (Extended Control-Program Support:VM/370)	one file XEDITUG
ADMIN	in typewriter mode XEDITUG
attached processor application OPGDE	options
CP assist ADMIN	See also editing variables
expanded virtual machine assist ADMIN	displaying setting of XEDIT
restricted use ADMIN	transferring setting of XEDIT
SET CPASSIST command SYSCMD	session CMSUG
support processors OPGDE	shared files CMSUG
using ADMIN	session CMSLOT, PRIMER
virtual interval timer assist ADMIN	shared files CMSLOT, PRIMER
ECPS:VM/370 option, SET command INTRO	symbols
ECRLOG (extended control registers) field DIAG EDIRNAME option	controlling use of GENCMD
	variables
of EXTRACT XEDIT	preserving <b>XEDITUG</b>
of QUERY XEDIT EDIT command	restoring XEDIT, XEDITUG
	saving <b>XEDIT</b>
definition ADMIN, SYSMSG description CMSREF	transferring XEDITUG
	with logical line editing symbols GENCMD,
LRECL option CMSREF	SYSCMD
NODISP option CMSREF	editor
prefix subcommands APGDE	See also System Product Editor (XEDIT)
subcommands supported in compatibility mode	CMS migration mode CMSREF
XEDIT EDIT compatibility mode VEDIT	defined CMSLOT, PRIMER
EDIT compatibility mode XEDIT	image symbol INTRO

invoking APGDE, XEDIT, XEDITUG	EMSG operand
in typewriter mode XEDITUG	of SET command GENCMD
macros EXEC2, SPIREF	EMSG option of EXECIO command CMSREF
executing EXEC2	EMSG setting SFPROG
filetype EXEC2	EMSG subcommand of XEDIT command XEDIT,
implementation EXEC2	XEDITUG
VM/SP INTRO	emulation of 327X ABEND SECUR
EFMODE option	emulation program (EP)
of EXTRACT XEDIT	See EP (emulation program)
of QUERY XEDIT	EMUL3270 feature
EFNAME option	RDEVICE macro PLNGDE
of EXTRACT XEDIT	ENABLE ALL operand
of QUERY XEDIT	of NETWORK command SYSCMD
EFTYPE option	ENABLE command
of EXTRACT XEDIT	described SYSCMD
of QUERY XEDIT	operands
ELAN (Ethernet LAN) IPCSREF	ALL SYSCMD
elapsed time saved during subroutine calls	Laddr SYSCMD
SPIREF	raddr SYSCMD
elapsed-time calculator SPIREF	SNA userid SYSCMD
element ADMIN, APGDE	responses SYSCMD
definition ADMIN, SYSMSG	summary <b>OPGDE</b> , <b>SYSCMD</b>
element operand	syntax diagram, class A or B SYSCMD
of STORE command GENCMD	ENABLE macro ADRCMS
elementcount operand	comparison to SSM instruction CMSMIG
of DISPLAY command GENCMD	conversion considerations CMSMIG
element1 operand	description of CMSMIG
of DISPLAY command GENCMD	enabling and disabling external interrupts
element2 operand	ADGCMS
of DISPLAY command GENCMD	manipulating the PSW mask ADGCMS
eligible list	ENABLE operand
definition ADMIN, SYSMSG	of MONITOR command SYSCMD
finding place on SYSCMD	of NETWORK command SYSCMD
responses SYSCMD	ENABLE operator command SFSAD
eliminating	ENABLE resid operand
a reader file PRIMER	of NETWORK command SYSCMD
spool files SYSCMD	enabled loop, virtual machine DIAG
ellipsis CARNEL CHECKE	enabled wait, CP DIAG
use of GENCMD, SYSCMD	enabling
ELSE keyword	a file space SFSAD
See also IF instruction	a storage group SFSAD
dangling SPIUG	communications directories CONPAO
NOP instruction SPIUG of IF instruction SPIUG	external tracing CONPAO
embedded blanks	internal tracing CONPAO
discussion of EXEC2	private resource processing CONPAO SNA terminals SFPROG
	terminals
examples EXEC2	***************************************
exceptions EXEC2	second-level systems RGOS
handling EXEC2 variables EXEC2	VSE/SP virtual machine RGOS
EML option RGOS	enciphering SECUR END clause
emphasizing a word or phrase CMSLOT,	See also DO instruction
PRIMER	See also SELECT instruction
emptying a stack CMSREF	specifying control variable SPIREF

END command APGDE end-of-input-line signaling TERMREF END control record, ZAP and ZAPTEXT service end-of-SVC ADGCMS end-of-tape programs format SERV condition ADMIN function SERV processing CMSUG END DECLARE SECTION statement in COBOL end-of-volume, processing CMSUG and SQL APGDE END tag, product parameter file SERV END keyword ENDCMD operand SRPI of DO instruction SPIUG of NUCXLOAD command CMSREF of SELECT instruction SPIUG ENDCMD parameter list SRPI end of file ENDCMD = operand NUCEXT SET ADRCMS indicating for input stream to batch virtual machine CMSUG ENDFILE command APGDE line, controlling display of XEDIT ending moving current line toward CMSLOT See also stopping end of range line, controlling display of XEDIT a TRACE GENCMD END operand communications with a program CONGREF of DCP command SYSCMD editing session CMSUG, XEDITUG of DISPLAY command GENCMD in typewriter mode XEDITUG of DUMP command GENCMD using CANCEL XEDIT of LOCATE subcommand IPCSREF using FILE CMSLOT, PRIMER, XEDIT of LOCATE (UP) subcommand IPCSREF using QQUIT PRIMER of NETWORK command SYSCMD using QUIT CMSLOT, PRIMER, XEDIT of SPTAPE command SYSCMD terminal session CMSLOT, CMSUG of TRACE command GENCMD VM/SP HPO functions SYSCMD of VMDUMP command GENCMD ENDREQ macro (VSAM) GCSREF END statement in ISPF panels APGDE description GCSREF END subcommand rpl parameter GCSREF of PER command GENCMD endtime operand of TIMESPAN subcommand of IPCSPRT command **IPCSREF** description IPCSREF endval operand of CHAIN subcommand IPCSREF example output IPCSREF end, abnormal format IPCSREF See abend (abnormal termination) functional category IPCSREF engineering notation SPIREF messages IPCSREF Enhanced Connectivity Facilities ADGCMS, response IPCSREF ADRCMS, APGDE, CMSMIG usage notes IPCSREF applications INTRO of IPCSSCAN command for VM/SP INTRO description IPCSREF needs of INTRO example output IPCSREF starting communications CMSREF format IPCSREF **ENQ macro GCSREF** functional category IPCSREF description GCSREF messages IPCSREF e parameter GCSREF response IPCSREF execute format GCSREF usage notes IPCSREF list format GCSREF of TESTCOB command APGDE mf parameter GCSREF of TESTFORT command APGDE qname address parameter GCSREF end-of-command ADGCMS related parameter GCSREF keeping SVC handlers across ADRCMS ret parameter GCSREF end-of-file checking ADGCMS

Refer to the foldout page at the back of this book for a chart of abbreviations and their corresponding manuals.

rname address parameter GCSREF	DLBL definitions in CMS EXEC procedure
rname length parameter GCSREF	ADGCMS
s parameter GCSREF	file identifications ADGCMS
ENROLL ADMINISTRATOR command	HELP facility CMSUG
instructions for using SFSAD	Immediate commands CMSUG
reference information for SFSAD	logical line editing symbols as data GENCMD,
ENROLL PUBLIC command	SYSCMD
instructions for using SFSAD	more than one on command line GENCMD,
reference information for SFSAD	SYSCMD
ENROLL USER command	null lines CMSUG
instructions for using SFSAD	prefix subcommands <b>XEDITUG</b>
reference information for SFSAD	subcommands XEDITUG
enrolling	rules for XEDIT
file pool administrators SFSAD	XEDIT subcommands XEDITUG
in a file pool CMSUG	on typewriter terminal XEDITUG
PUBLIC	entries in communications directories CONPAO
ENROLL PUBLIC command for SFSAD	Entry Assist TERMREF
how to SFSAD	ENTRY loader control statement ADGCMS,
remote use considerations for SFSAD	CMSREF
remote users SFSAD	entry option
users SFSAD	of IPCSPRT command IPCSREF
ensuring a complete log SFPROG	of TRAPFILE command IPCSREF
in a distributed system SFPROG	entry points APGDE
in a mixed environment SFPROG	determined by loader CMSREF
	displayed with FETCH command ADGCMS,
in a single system SFPROG	CMSREF
enter a command or press a PF or PA key	
(status notice) PRIMER	module ADRCMS
ENTER key CMSLOT, PRIMER, TERMREF	program, determining ADGCMS
ENTER option	specifying
of EXTRACT XEDIT	using OS/MVS entry statement ADGCMS
of QUERY XEDIT	with ENTRY statement CMSREF
of SET XEDIT	with GENMOD command CMSREF
ENTER signaling TERMREF	ENTRY (keyword definition) IPCSREF
enter your response (status notice) <b>PRIMER</b> entering	entrypointname operand of MAPN subcommand IPCSREF
CMS commands, in CMS subset environment	ENTRY = operand
CMSUG	NUCEXT SET ADRCMS
CMS environment CMSUG	SUBCOM SET ADRCMS
CMS/DOS environment CMSUG	ENVIR output field of STAT command IPCSREF
commands	ENVIR (keyword definition) IPCSREF
from the screen CMSUG	Environmental Record Editing and Printing
on display terminal CMSUG	Program (EREP) INST
rules for CMSLOT, PRIMER	installing INST
comments GENCMD	environments TERMREF
CP commands GENCMD	AP/MP, advantages of
from CMS command environment CMSUG	See Diagnosis Reference
from edit environment CMSUG	AP/MP, facilitating
from virtual machine environment GENCMD	
CP environment	See Diagnosis Reference
	addressing of SPIREF
from CMS environment CMSUG	conventions OPGDE
data XEDITUG	changing TERMREF
in XEDIT PRIMER	CMS SPIUG
using INPUT XEDITUG	COMMAND SPIUG
using INPUT in typewriter mode XEDITUG using POWERINP XEDITUG	CP SPIUG

default SPIREF **ERASE** option determining current using ADDRESS function of ACCESS command CMSREF ERASE EOF key APGDE, PRIMER for MVS guest, definition of RGOS used to delete a line XEDIT of VM/SP CMSUG ERASE INPUT key APGDE of VM/SP HPO ERASE macro (VSAM) GCSREF description GCSREF system load ADMIN performance enhancements for dyadic processors rpl parameter GCSREF with store-in cache erased alias SFSAD See Diagnosis Reference erased lines, recovering PRIMER programmable operator SFPROG erasing distributed VM SFPROG a file PRIMER mixed SFPROG a file or directory CMSLOT, PRIMER single system SFPROG a reader file PRIMER base files CMSUG SNA SFPROG CMS files CMSUG temporary change of SPIREF EOF operand data in a virtual screen CMSREF of BACKSPAC command SYSCMD directories ADRCMS, CMSUG of SPOOL command GENCMD files to clear file space during editing session EOF option **CMSUG** of EXTRACT XEDIT files to clear minidisk space during editing of QUERY XEDIT session CMSUG of TRANSFER XEDIT erasing files, aliases EOL option DMSERASE routine ADRCMS of EXTRACT XEDIT FSERASE macro ADRCMS of QUERY XEDIT erasing the rest of the line PRIMER EP (Emulation Program) EREP (Environmental Recording Editing and See also 3704/3705 Printing Program) INST, PLNGDE coding the RDEVICE macro PLNGDE installing INST special considerations for loading OPGDE error **EPLIST macro ADRCMS** action EPLIST (extended PLIST) by general user SYSMSG second form ADGCMS by system operator SYSMSG EPLIST = operandDMSEXE085E EXEC2 DMSEXE175E EXEC2 CMSCALL macro ADRCMS PARSECMD macro ADRCMS DMSEXE255T EXEC2 EQU (equate) statements ADRCMS during execution of functions SPIREF generating for registers using REGEQU macro from host commands SPIREF **ADRCMS** handling equal buffer, inserting string in XEDIT for stand-alone dumps DIAG EQUAL command used in XEDIT CMSLOT in ISPF APGDE equal operator (=) SPIREF in SQL APGDE equal (=) command I/O OPGDE using in XEDIT PRIMER messages EXEC2 using on FILELIST screen PRIMER DMKMSS OPGDE equality, testing of SPIREF processing ERASE command APGDE, CMSMIG, CMSLOT, messages CMSUG CMSREF, CMSUG, PRIMER NSL routines CMSUG NOTYPE option CMSREF OS simulation CMSUG TYPE option CMSREF standard label processing CMSUG

rate of lines CONPAO error messages and codes SPIREF recording APPV/VM VTAM (AVS) error messages and analysis for MVS guest RGOS cylinders, clear SFPROG SYSMSG cylinders, defining PLNGDE CMS EDIT error messages SYSMSG in single processor mode RGOS CMS error messages SYSMSG use of SVC 76 by MVS and CP RGOS controlling whether you receive them CMSUG VM under VM RGOS CP error messages SYSMSG VSE virtual machine RGOS DEBUG error messages SYSMSG displaying XEDIT, XEDITUG recording area records for missing interrupts ADMIN in typewriter mode XEDITUG editing with DIAGNOSE code X'5C' SFPROG recording mode setting for soft errors SYSCMD GCS error messages SYSMSG with CPEREP program OPGDE handling reporting SAACOM controlling GENCMD displaying by SCRIPT CMSLOT HELP display of XEDIT reporting information IPCS error messages SYSMSG conversion from wuerror format ADRCMS retrieving with ERRORTEXT SPIREF FPERROR mapping macro ADRCMS SYSXSTOR macro PLNGDE WUERROR mapping macro ADRCMS TSAF error messages SYSMSG setting the action taken EXEC2 Vector Facility APGDE signaling an CONGREF 3880 hardware ADMIN syntax SPIREF ERROR parameter traceback after SPIREF ACCEPT (CMSIUCV) function CONGREF CLR (clear) function CONGREF trapping See SIGNAL instruction of SELECT subcommand IPCSREF unrecoverable tape ADMIN ERROR subcommand of TESTFORT command error codes CONGREF, SPIREF APGDE ACCEPT (CMSIUCV) function CONGREF ERRORS option of DETAIL HELP CMSUG ACCEPT (IUCV) function CONGREF ERRORTEXT function SPIREF CLR (clear) function CONGREF error direction characteristic CONNECT (APPCVM) function CONGREF and Send-Pending state SAACOM CONNECT (CMSIUCV) function CONGREF possible values SAACOM CONNECT (IUCV) function CONGREF set SAACOM DCLBFR function CONGREF ERROR = operandHLD (hold) function CONGREF CMSCALL macro ADRCMS RECEIVE function CONGREF CMSSTACK macro ADRCMS REP (replace) function CONGREF CMSSTOR OBTAIN ADRCMS RES (resume) function CONGREF **CMSSTOR RELEASE ADRCMS** RESOLVE (CMSIUCV) function CONGREF CONSOLE macro ADRCMS SENDCNF function CONGREF FSOPEN macro ADRCMS SENDCNFD function CONGREF FSPOINT macro ADRCMS SENDDATA function CONGREF FSREAD macro ADRCMS SENDERR function CONGREF FSSTATE macro ADRCMS SENDREQ function CONGREF FSWRITE macro ADRCMS SET function CONGREF GETSID macro ADRCMS SEVER (APPCVM) function CONGREF HNDEXT macro ADRCMS SEVER (CMSIUCV) function CONGREF HNDINT macro ADRCMS SEVER (IUCV) function CONGREF HNDIO macro ADRCMS TESTCMPL function CONGREF HNDSVC macro ADRCMS ERROR command APGDE IMMCMD macro ADRCMS ERROR condition of SIGNAL instruction SPIREF LINERD macro ADRCMS Error Logging System Service SFPROG LINWRT macro ADRCMS establishing communications with SFPROG NUCEXT ANCHOR ADRCMS

NUCEXT CLR ADRCMS

**NUCEXT QUERY ADRCMS NUCEXT SET ADRCMS** SCAN macro ADRCMS SEGMENT macro ADRCMS SUBCOM ANCHOR ADRCMS SUBCOM CLR ADRCMS SUBCOM QUERY ADRCMS SUBCOM SET ADRCMS SUBPOOL CREATE ADRCMS SUBPOOL DELETE ADRCMS SUBPOOL RELEASE ADRCMS TEOVEXIT macro ADRCMS ERRS option of OPTION command CMSREF escape character on typewriter terminal XEDIT ESCAPE operand of EXTRACT XEDIT of QUERY XEDIT of SET CMSLOT, XEDIT of TERMINAL command GENCMD of TRANSFER XEDIT ETMODE option ESD option of ASSEMBLE command CMSREF ESD statement of TXTLIB member APGDE ESECURITY start-up parameter SFSAD effect on administrator powers SFSAD **ESERV** command adding MACRO files created by ESERV program ADGCMS **AVS DIAG** described CMSREF description of ADGCMS examples ADGCMS using ADGCMS ESERV support using CMSBAM INST ESPIE macro CMSMIG establishing a base register GCSREF a page migration hierarchy ADMIN communication collection resource management system service **SFPROG** DASD block I/O system service SFPROG error logging system service SFPROG message system service SFPROG programmable operator and NCCF or TSAF DIAG NetView SFPROG programmable operator to IUCV SFPROG signal system service SFPROG spool system service SFPROG TSAF with collection resource management system service SFPROG **EUDEXEC2** command **APGDE** communications gateway CONPAO EUROPEAN option of DATE function SPIREF

SNA communications links SFPROG ESTAE macro GCSREF asynch parameter GCSREF ct parameter GCSREF description GCSREF execute format GCSREF exit address parameter GCSREF list format GCSREF mf parameter GCSREF ov parameter GCSREF param parameter GCSREF xctl parameter GCSREF ESTATE command CMSMIG ESTATEW command CMSMIG ETARBCH option of EXTRACT XEDIT of QUERY XEDIT of SET XEDIT Ethernet LAN (LAN) IPCSREF of EXECUPDT command CMSREF of EXTRACT XEDIT of QUERY XEDIT of SET XEDIT ETRACE command DIAG, GCSREF all operand GCSREF description GCSREF dsp operand GCSREF end operand GCSREF ext operand GCSREF fre operand GCSREF get operand GCSREF group operand GCSREF gtrace operand GCSREF I/O operand GCSREF off operand GCSREF prg operand GCSREF sio operand GCSREF sss operand GCSREF svc operand GCSREF syn operand GCSREF ETRACE GROUP command DIAG ETRACE operator command SFSAD ETRACE start-up parameter SFSAD **EUDCNTRL APGDE EUDCOBOL APGDE** 

EVALBLOK format SPIREF	programmable operator SFPROG
evaluating expressions SPIREF	in a distributed environment SFPROG
order of SPIUG	in a local environment SFPROG
using parentheses SPIUG	in a mixed environment SFPROG
evaluation of &DATE and &TIME EXEC2	programming techniques EXEC2
event control block (ECB)	programs calling a CSL routine ADRCMS
format ADRCMS	remote 3270 addressing PLNGDE
posting ADGCMS	SCOMDIR NAMES file entries CONPAO
exact comparison operators SPIUG	SCREEN directory control statement PLNGDE
exactly equal operator (= =) SPIREF	session of IPCSDUMP IPCSREF
examine real storage with DIAGNOSE code X'04'	session using PROB command IPCSREF
SFPROG	SVC 202 EXEC2
examining conversation characteristics SAACOM	SYSRES macro PLNGDE
See also extract calls	SYSXSTOR macro PLNGDE
examining output listings from access method services	TERMINAL macro PLNGDE
ADGCMS	tokenized plist EXEC2
examples TERMREF	TSAF console log CONPAO
AGWPROF GCS CONPAO	
APAR form IPCSREF	TSAF virtual machine directory CONPAO
	typical session TERMREF
APPCPASS directory statement CONPAO	UCOMDIR NAMES file entries CONPAO
APPL definition statement CONPAO	untokenized plist EXEC2
assembler language programs EXEC2	use of SYSPAG macro ADMIN
assembler server IBMABASE SRPI	user-defined functions EXEC2
assignment statement EXEC2	variable EXEC2
AVS virtual machine directory CONPAO	VBUILD statement CONPAO
coding an SNA controller PLNGDE	XEDIT subcommands TERMREF
communications directory file entries CONPAO	\$SERVER\$ NAMES file entries CONPAO
complex session TERMREF	&BLANK EXEC2
conditional statements EXEC2	exception conditions saved during subroutine calls
control statements (IUCV) for	SPIREF
to access resources CONPAO	exception log message codes SERV
to use gateways CONPAO	exceptions
control words EXEC2	embedded blanks EXEC2
COPY command TERMREF	EXEC 2 words EXEC2
DIAGNOSE code X'08' SFPROG	exception, programming
explicitly authorized	See program exceptions
gateways CONPAO	exclude list
TSAF collection CONPAO	corrective service SERV
generating EXEC 2 variable names EXEC2	example SERV
inbound connection to	function SERV
global resource CONPAO	PUT service SERV
private resource CONPAO	Exclude List (SNA service)
keyboard lock TERMREF	contents SERV
labels EXEC2	definition SERV
leading zeros EXEC2	example SERV
links in a collection CONPAO	part of Program Update Tape (PUT) SERV
name substitution EXEC2	EXCLUDE operand
of IUCV virtual machine communication	of MONITOR command SYSCMD
SFPROG	EXCLUDE SYSIN control statement CMSREF
operating systems in a virtual machine	excluding lines from display XEDIT
system dump directory entry PLNGDE	exclusive disable locks SFSAD
outbound connection CONPAO	checking status of SFSAD
plus signs EXEC2	creating SFSAD
PROFILE GCS CONPAO	deleting SFSAD

EXCLUSIVE lock on a file or directory CMSLOT, PRIMER into saved segment CMSUG exclusive OR operator SPIREF, SPIUG into storage CMSUG MACLIBs APGDE exclusive ORing character strings together SPIREF EXCLUSIVE parameter option DMSCRLOC (SFS Create Lock) ADRCMS of LISTFILE command APGDE, CMSREF in CSL routines of LISTIO command CMSREF DMSDISFS (SFS Disable File Space) SFSAD plist for SPIREF DMSDISSG (SFS Disable Storage Group) procedures INST ASMGEND SERV EXCP supported by CMS/DOS ADGCMS CMSGEND SERV EXDTE operand of LABELDEF command CMSREF described INTRO EXEC APGDE ESERV CMSREF See also PROFILE, EXEC executing CMSREF See also SYSPROF EXEC for AMSERV ADGCMS action routines SFPROG for VSAM ADGCMS AGWPROF GCS CONPAO GENSERVE SERV and editor macros in storage **GENTSAF SERV** discontinue use of the CMS installation saved in CMS/DOS ADGCMS segment CMSREF MVS virtual machine RGOS listing CMSREF register contents ADGCMS removing CMSREF SPGEN CONPAO arguments APGDE to execute VSE programs ADGCMS arguments to SPIREF using to submit jobs to CMS batch facility calling as functions SPIREF **CMSUG** CMS (Conversational Monitor System) APGDE UTILITY SERV CMS EXEC language SPIUG VMFAPPLY SERV command VMFASM SERV description CMSREF VMFLKED SERV definition ADMIN, CMSLOT, PRIMER, SYSMSG VMFMAC SERV DISKMAP PLNGDE VMFMERGE SERV example of PRIMER VMFNLS SERV EXEC 2 APGDE VMFOVER SERV executing CMSLOT VMFREC SERV **EXEC 2 SPIUG** VMFREMOV SERV file type used in CMS CMSUG VMFSETUP SERV FILEDEF command in APGDE VMFTXT SERV files VMFZAP SERV CMS EXEC file created by LISTFILE command VSE/SP virtual machine RGOS **CMSREF** ZAPTEXT SERV using IMMCMD from CMSREF profile APGDE, PRIMER \$LISTIO EXEC created by LISTIO command quotation marks within PRIMER Restructured Extended Executor language **CMSREF** filetype APGDE (REXX) APGDE record format CMSREF compound symbols APGDE GENTSAF CONPAO FILEDEF commands in APGDE in-store execution of SPIREF functions APGDE invoking SPIREF MACLIBs in APGDE ISPEXEC APGDE prototyping algorithms APGDE subroutines APGDE

substitution rules APGDE	FETCH EXEC2
TXTLIBs in APGDE	interface to variables SPIREF
retrieving name of SPIREF	length limit for external names of shared
running PRIMER	variables EXEC2
sample CMSLOT	length limit for values assigned by EXEC2
sharing ADMIN	reglist parameter GCSREF
TXTLIBs APGDE	sharing EXEC 2 variables with assembler
variables for PARSECMD CMSREF	programs EXEC2
variables returned	STORE EXEC2
code.n CMSREF	subcommand entry point SPIREF
code.n values CMSREF	EXECDROP command
token.n CMSREF	description CMSREF, CMSUG
with System Product Editor APGDE	discontinuing access to exec in saved segment
EXEC 2 APGDE	CMSUG
comparison to EXEC CMSUG	example CMSUG
comparison to System Product Interpreter	EXECIO command SPIUG
CMSUG	CARD option CMSREF
errors EXEC2	CC option CMSREF
file used as XEDIT macro XEDITUG	CP option CMSREF
files	description CMSREF, CMSUG
attributes CMSUG	DISKR option CMSREF
filename, valid character for EXEC2	DISKW option CMSREF
filetype EXEC2	EMSG option CMSREF
format CMSUG, EXEC2	example CMSUG
identifying EXEC2	machine code CMSREF
recursive execution EXEC2	options INTRO
sample of EXEC2	PRINT option CMSREF
terminating EXEC2	PUNCH option CMSREF
in CMS EXEC2	STEM option CMSREF
assembler language programs EXEC2	VAR option CMSREF
EXECCOMM EXEC2	EXECLOAD command SRPI
identifying EXEC 2 files EXEC2	description CMSREF, CMSUG
limits in CMS EXEC2	example CMSUG
XEDIT macros EXEC2	improving performance of HELP CMSUG
interpreter	EXECMAP command
- · · · · · · · · · · · · · · · · · · ·	description CMSREF, CMSUG
as a macro processor EXEC2 invoked EXEC2	example CMSUG
language EXEC2	FIFO option CMSREF
parameter lists EXEC2	LIFO option CMSREF
procedures, executing CMSREF	listing EXECs in storage CMSUG
programs CMSREF	execname, variable
assembler language programs EXEC2	described GENCMD, SYSCMD
calling EXEC2	EXECOS command EXEC2
EXEC 2 file EXEC2	description CMSREF
EXEC 2 interpreter EXEC2	EXECSTAT command
executing EXEC2	description CMSREF, CMSUG
interaction with users EXEC2	example CMSUG
running CMSUG	EXECTRAC flag
statements	external control of tracing SPIREF
comment EXEC2	exectype, variable
executable statement EXEC2	described GENCMD, SYSCMD
used with System Product Editor CMSUG	EXECUPDT command
&TRACE statement CMSUG	COMMENTS option CMSREF
EXECCOMM macro EXEC2, GCSREF	COMPRESS option CMSREF
description GCSREF	CTL option CMSREF

description CMSREF ETMODE option CMSREF HISTORY option CMSREF NOCOMMENTS option CMSREF NOCOMPRESS option CMSREF NOHISTORY option CMSREF NOSID option CMSREF NOUPDATE option CMSREF SID option CMSREF used with System Product Interpreter source programs CMSREF using UPDATE options with CMSREF EXECUPDT EXEC INTRO executable statements assignment statement EXEC2 assignments EXEC2 commands EXEC2 control statements EXEC2 description of EXEC2 interpreting EXEC2 null statement EXEC2 types EXEC2 **EXECUTE** command description CMSLOT used with COMPARE CMSLOT used with COPYFILE CMSLOT used with DISCARD from FILELIST CMSLOT from RDRLIST CMSLOT used with PEEK CMSLOT used with PRINT CMSLOT used with RECEIVE CMSLOT used with RENAME CMSLOT used with SCRIPT CMSLOT used with XEDIT CMSLOT EXECUTE facility of SQL/DS INTRO execute format GCSREF execute format (MF = (E, addr))CMSIUCV macro SFPROG HNDIUCV macro SFPROG executing a program CMSLOT a subcommand XEDITUG access method services in EXEC procedure **ADGCMS** Assembler H INTRO command using program function (PF) keys **CMSUG** 

DOS phases ADGCMS DSF programs ADGCMS EXEC procedures CMSUG Immediate commands in EXECs CMSUG phases from core image ADGCMS PROFILE EXEC CMSUG programs See also program management in CMS/DOS ADGCMS restrictions DL/I programs in CMS/DOS ADGCMS text files ADGCMS VSAM programs ADGCMS VSE procedures ADGCMS Executing a command (status notice) PRIMER execution by language processor SPIREF characteristics of CMS commands CMSREF, **CMSUG** favored **OPGDE** halting at instruction address GENCMD of data SPIREF resuming virtual machine GENCMD state indicator in full-screen CMS CMSUG stopping virtual machine **GENCMD** executor language See REXX (Restructured Extended Executor) language exercises, practice XEDITUG exist buffer mapping macro ADRCMS existence of file/directory, checking for ADRCMS existence of file, determining using DMSEXIFI CSL routine ADRCMS using FSSTATE macro ADRCMS existing programs on non-shared SFS files CMSMIG on SFS files CMSMIG on shared SFS files CMSMIG existing VM system users existing VM system installation procedure INST exit accounting SFSAD from an EXEC 2 file EXEC2 exit code, module ADRCMS exit EXECs, programmable operator SFPROG communication error SFPROG

Refer to the foldout page at the back of this book for a chart of abbreviations and their corresponding manuals.

commands again PRIMER

PROPHCHK SFPROG

PROPPCHK SFPROG

interface SFPROG	EXPAND subcommand of XEDIT command
log error SFPROG	XEDIT, XEDITUG
PROPLGER SFPROG	example of XEDIT
EXIT instruction SPIREF, SPIUG	used with COMPRESS XEDIT
EXIT parameter	expanded virtual machine assist ADMIN
ACCEPT (CMSIUCV) function CONGREF	Expanded Storage ADMIN, SYSMSG
exit routines SECUR	allocating
abend	SYSPAG macro PLNGDE
See abend (abnormal termination)	SYSXSTOR macro PLNGDE
clearing for external interrupts ADRCMS	expanding
clearing for I/O interrupts ADRCMS	a window size to the physical screen size
clearing for SVC interrupts ADRCMS	CMSREF
defining for external interrupts ADRCMS	data XEDIT
defining for I/O interrupts ADRCMS	tabs XEDIT
defining for SVC interrupts ADRCMS	filler character used in XEDIT
in RACF SECUR	EXPLAIN command of SQL APGDE
interrupt ADGCMS	explicit locks CMSUG, INTRO
exiting from	explicitly authorized
editing session, saving changes CMSUG	gateways CONPAO
editing session, without saving changes CMSUG	private resource users CONPAO
execution of a program CMSUG	TSAF collection CONPAO
terminal session CMSUG	exploitation, 370-XA
the editor XEDITUG	definition of CMSMIG
in typewriter mode XEDITUG	general considerations CMSMIG
the WM window CMSREF	exponent SPIUG
EXIT = operand	exponential notation
HNDIO macro ADRCMS	definition SPIREF
IMMCMD macro ADRCMS	description of SPIREF, SPIUG
TEOVEXIT macro ADRCMS	NUMERIC DIGITS instruction SPIUG
EXLST macro (VSAM) GCSREF	significant digits SPIUG
a parameter GCSREF	specifying SPIUG
address parameter GCSREF	usage SPIREF
description GCSREF	exponentiation SPIUG
eodad parameter GCSREF	definition SPIREF
jrnad parameter GCSREF	
l parameter GCSREF	operator SPIREF, SPIUG EXPORT access method services function
lerad parameter GCSREF	ADGCMS
n parameter GCSREF	
<u>-</u>	exporting VSAM data sets ADGCMS
synad parameter GCSREF	EXPOSE option of PROCEDURE instruction
EXPAND command, ZAPTEXT service program format SERV	SPIREF, SPIUG
function SERV	expressions
	description of SPIUG
object deck form SERV	evaluating SPIREF
operands SERV	order of SPIUG
options SERV	using parentheses SPIUG
responses SERV	using the TRACE instruction SPIUG
EXPAND control record, ZAPTEXT service program	examples SPIREF
format SERV	in an assignment SPIUG
parameters SERV	in IF clause SPIUG
usage notes SERV	parsing of SPIREF, SPIUG

results of SPIREF extensions, read-only text SPIUG accessing CMSREF tracing results of SPIREF editing files on CMSREF using parentheses SPIUG using CMSUG using TRUE and FALSE SPIUG **EXTENT** option **EXSBUFF** macro of DLBL command ADGCMS, CMSREF general format ADRCMS of DLBL for CMS/DOS users CMSREF extcolor operand of LISTDS command CMSREF of SCREEN command GENCMD extents extcolor, variable allocating on OS disks and minidisk ADGCMS described GENCMD, SYSCMD availability of ADGCMS EXTEND option of DETAIL HELP CMSUG determining for VSAM functions ADGCMS entering in CMS/DOS ADGCMS information when defining VSAM master arbitrary character **XEDIT** channel support ADMIN, SYSMSG catalog ADGCMS restrictions PLNGDE multiple in CMS/DOS ADGCMS control mode ADMIN, DIAG, SYSMSG multiple in OS ADGCMS setting GENCMD multivolume ADGCMS control PSW description DIAG external control registers references, resolving ADGCMS displaying GENCMD routines printing **GENCMD** functions SPIUG highlighting, defining invoking SPIREF with SET COLOR XEDITUG subroutines SPIUG with SET CTLCHAR XEDITUG security SFSAD with SET RESERVED XEDITUG security managers mode XEDIT administration considerations for SFSAD parameter list ADGCMS, APGDE, CMSMIG auditing security with SFSAD building ADRCMS brief overview of SFSAD mapping ADRCMS coding SFSAD plist SPIREF, SRPI start-up parameters related to SFSAD storage ADMIN, SYSMSG using SFSAD storage, using subroutines See Diagnosis Reference interface SPIREF storage-key support, considerations when using trace bit SPIREF See Diagnosis Reference trace option storage support querying CONPAO page interchange techniques ADMIN trace records, formatting and displaying DIAG virtual machine assist OPGDE tracing GCSREF Extended Control-Program Support: VM/370 option, **AVS CONPAO** SET command INTRO displaying setting CONPAO Extended Control-Program Support: VM/370 (ECPS) during AVS application initialization See ECPS (Extended Control-Program Support: **CONPAO** VM/370) setting CONPAO **Extended Storage Support** TSAF CONPAO performance PLNGDE tracing facilities, GCS DIAG extended-identification code SFPROG extending a line XEDIT

external attribute buffer (XAB) SFPROG	member APGDE
manipulation of spool file SFPROG	EXTERNALS function SPIREF
manipulation of virtual printer SFPROG	exthilight operand
READ-XAB function of SPOOL system service	of SCREEN command GENCMD
SFPROG	exthilight, variable
EXTERNAL command CMSUG, GENCMD,	described GENCMD, SYSCMD
RGOS	EXTOPSW (external old PSW) DIAG
operands	extract calls
code GENCMD	conversation_type SAACOM
40 GENCMD	mode name SAACOM
responses GENCMD	partner LU name SAACOM
usage notes GENCMD	product implementation table SAACOM
external functions SPIREF	sync level SAACOM
See also external, routines	EXTRACT subcommand of XEDIT command
•	•
interface SPIREF	SPIUG, XEDIT, XEDITUG
external interrupt buffer CONGREF	options XEDIT
APPC/VM CONGREF	with DBCS strings XEDIT
CMS default external interrupt handler ADGCMS	extract system information
creating a default handler ADGCMS	callable services library ADGCMS
default external interrupt handlers ADRCMS	calling from REXX ADGCMS
deleting a handler ADGCMS	features of ADGCMS
enabling and disabling ADGCMS	extracting
entry and exit linkage ADGCMS	a member from a MACLIB ADGCMS
handling ADGCMS ADRCMS	a substring SPIREF
external interrupt handler work area (EXTWA)	system information ADRCMS
DIAG	words from a string EXEC2, SPIREF
external interrupt (type X'02') entry <b>DIAG</b>	words from other words EXEC2
external interrupts CMSMIG	Extract/Replace facility ADRCMS, APGDE
See also Diagnosis Reference	information names
functions controlling SFPROG	active file set CMSMIG
in VMCF SFPROG	cross-reference of control block to information
message header SFPROG	name CMSMIG
IUCV SFPROG	device set CMSMIG
avoiding SFPROG	file set CMSMIG
connection complete SFPROG	general system set CMSMIG
connection pending SFPROG	minidisk and directory set CMSMIG
connection quiesced SFPROG	OS simulation set CMSMIG
connection resumed SFPROG	shared file set CMSMIG
connection severed SFPROG	supported information names ADRCMS
control SFPROG	Extract_Conversation_Type (CMECT) routine
enabling or disabling SFPROG	CONGREF, SAACOM
message SFPROG	Extract_Mode_Name (CMEMN) routine
message complete SFPROG	CONGREF, SAACOM
message pending SFPROG	Extract_Partner_LU_Name (CMEPLN) routine
handling specific interrupts, examples ADGCMS	CONGREF, SAACOM
monitored SYSCMD	Extract_Sync_Level (CMESL) routine CONGREF,
simulated GENCMD	
	SAACOM EVISECT (outcomed interment work area) DIAC
synchronous interrupts in an AP system	EXTSECT (external interrupt work area) DIAG
See Diagnosis Reference	EXTUAREA macro ADGCMS, ADRCMS
types of ADGCMS	EXTWA (external interrupt handler work area)
EXTERNAL operand	DIAG
of TRACE command GENCMD	ext, variable
EXTERNAL option of PARSE instruction SPIREF	described GENCMD, SYSCMD
External Symbol Dictionary statement of TXTLIB	E3270HLD feature RDEVICE macro PLNGDE

page formatting/allocating ADMIN tape dump movement of data ADMIN F border command PRIMER FB-512 devices F parameter determining information about GENCMD DMSEXIFI (SFS Exist—File) ADRCMS FBA (fixed-block architecture) DMSGETDA (SFS Get Directory—Searchall) devices **ADRCMS** format for CP-owned ADMIN DMSGETDF (SFS Get Directory—Files) definition ADMIN, SYSMSG ADRCMS FBA (fixed block architecture) DASD DMSGETDS (SFS Get Directory—Searchauth) block format SFPROG **ADRCMS** copy restriction SFPROG DMSOPEN (SFS Open) ADRCMS device capacity SFPROG F prefix subcommand of XEDIT command format SFPROG APGDE, PRIMER, XEDIT, XEDITUG Format/Allocate program example of XEDIT using allocate function SFPROG facilitating an AP/MP environment using allocate overlap function SFPROG See Diagnosis Reference using label function SFPROG performance enhancements for dyadic processors general description SFPROG with store-in cache page formatting/allocating SFPROG See Diagnosis Reference tape dump, movement of data SFPROG facilities FCB operand restart OPGDE of CHANGE command GENCMD, SYSCMD failure of routes CONPAO of LOADVFCB command GENCMD FAILURE output field of STAT command of RDEVICE macro PLNGDE **IPCSREF** of SPOOL command GENCMD FAILURE (keyword definition) IPCSREF of START command SYSCMD failures, restart recovery processing after SFSAD FCB (forms control buffer) ADMIN FALSE expression SPIUG examples ADMIN fast path for CSL routines ADRCMS index feature ADMIN favored execution option ADMIN loading RGOS description and usage OPGDE macro ADMIN FAVORED operand 3800 printer ADMIN of INDICATE command SYSCMD FCBTAB (file control block table) DIAG of SET command ADMIN, INTRO, FCOBOL command ADGCMS **OPGDE, SYSCMD** FCODE field FAVORED, CP SET command RGOS of CONNECT request (\*IDENT) CONGREF FB-512 FDISPLAY command CONPAO coding RDEVICE macro PLNGDE FDISPLAY subcommand of IPCSSCAN command format SFPROG description IPCSREF specifying in SYSRES macro PLNGDE example outputs IPCSREF FB-512 DASD format IPCSREF block format ADMIN functional category IPCSREF COPY restriction ADMIN messages IPCSREF device capacity ADMIN operands IPCSREF Format/Allocate program response IPCSREF using the ALLOCATE function ADMIN usage note IPCSREF using the LABEL function ADMIN feature tape distribution formats INST

Refer to the foldout page at the back of this book for a chart of abbreviations and their corresponding manuals.

general description ADMIN label requirements OPGDE

leatures	FILE command APGDE, CWISLOI,
defining for a 3330V <b>OPGDE</b>	PRIMER, XEDITUG
device SFPROG	in FILELIST PRIMER
keyboard lock TERMREF	file ID in command syntax CMSREF
line timeout TERMREF	file mode APGDE, CMSLOT, PRIMER,
processor	XEDITUG
special-feature keyboards TERMREF	filemode A CMSLOT, PRIMER
sysvirt OPGDE	considerations for SFSAD
tape, national language SFPROG	changing XEDIT
listing files SFPROG	with COPYFILE command CMSREF
object files SFPROG	defining defaults for users SFSAD
source files SFPROG	definition CMSUG
typamatic TERMREF	definition and use INTRO
types, models, and classes of devices	determination, default for reading files
(DIAGNOSE code X'24') SFPROG	commands that search all accessed file modes
virtual <b>OPGDE</b>	CMSUG
FEATURE operand	commands that search only file mode A and its
of RCTLUNIT macro PLNGDE	extensions CMSUG
of RDEVICE macro PLNGDE	determination, default for writing files
of TERMINAL macro PLNGDE	commands for which you must specify file
FEDFEXSW IPCSREF	mode CMSUG
FEEDBACK command, programmable operator	commands that write output to file mode A
SFPROG	CMSUG
feedback file SFPROG	commands that write output to read/write file
See also programmable operator facility	mode CMSUG
FENCE = operand	displaying status CMSUG
CMSCALL macro ADRCMS	extensions CMSUG
FETCH command	in a remote file pool SFSAD
COMP option CMSREF	in file identifier CMSUG
description CMSREF	letters
description of ADGCMS	assigning CMSUG
loading phases in CMS/DOS ADGCMS	change during a terminal session CMSUG
ORIGIN option CMSREF	establishing CMSREF
START option ADGCMS, CMSREF	when to specify for reading files CMSUG
FETCH statement of SQL APGDE	when to specify for writing files CMSUG
fetch-protected storage DIAG	moving contents to an SFS directory SFSAD
not dumped SFPROG	numbers
fetching core image phases for execution in	changing CMSUG
CMS/DOS ADGCMS	commands used to change CMSUG
FFILE subcommand XEDIT	default CMSUG
FID operand of LABELDEF command CMSREF	descriptions CMSUG
field definition screen APGDE	used to manipulate subsets of files CMSUG
in DMS/CMS APGDE	when to specify CMSUG
fields for sorting PRIMER	numbers in SFS
FIFO (first-in/first-out) APGDE, EXEC2, SPIUG	file mode number 0 CMSUG
operand	file mode number 1 CMSUG
of CONVERT COMMANDS command	file mode number 2 CMSUG
CMSREF	file mode number 3 CMSUG
option	file mode number 4 CMSUG
of IDENTIFY command CMSREF	file mode number 5 CMSUG
of NAMEFIND command CMSREF	file mode number 6 CMSUG
of NUCXMAP command CMSREF	numbers on minidisks
stacking SPIREF	file mode number 0 CMSUG
	file mode number 1 CMSUG

file mode number 2 CMSUG catalogs file mode number 3 CMSUG See also catalog storage group file mode number 4 CMSUG closing catalogs within SFSAD file mode number 5 CMSUG description of SFSAD file mode number 6 CMSUG opening for read or write SFSAD of XEDIT macro XEDITUG reading data from SFSAD providing for CMS batch virtual machine CMSUG writing data to SFSAD read-only extensions CMSUG default CMSUG S accessed after IPLing CMS CMSREF definition CMSUG enrolling in CMSUG search order CMSUG status CMSUG IBM-supplied (VMSYSU) CMSUG storing files CMSUG primary CMSUG file name APGDE, CMSLOT, CMSUG, PRIMER using more than one CMSUG changing PRIMER, XEDIT changing ID of SFSAD definition and use INTRO deleting SFSAD of XEDIT macro XEDITUG a user from SFSAD of XEDIT prefix macro XEDITUG PUBLIC from SFSAD operand of MODMAP command DIAG description of SFSAD of AUTOSAVE files PRIMER CMS Shared File System INTRO type, mode of program SPIREF enrolling PUBLIC in SFSAD file operand enrolling users in SFSAD of BACKSPAC command SYSCMD error information mapping ADRCMS of NAMEFIND command CMSREF generating SFSAD IBM-supplied SFSAD FILE parameter DMSKOPDI (SFS Open Directory) ADRCMS ID (file pool identifier) CMSUG file pool CMSLOT, PRIMER changing SFSAD description of SFSAD adding space to SFSAD administration authority naming restrictions for SFSAD DELETE ADMINISTRATOR command SFSAD of the system file pool SFSAD deleting SFSAD setting defaults for users SFSAD description of SFSAD start-up parameter for SFSAD ENROLL ADMIN command SFSAD listing users enrolled in SFSAD for VMSYS and VMSYSU SFSAD making available to other processors SFSAD managing performance of SFSAD GRANT ADMIN operator command SFSAD granting SFSAD maximums SFSAD granting permanently SFSAD monitoring physical space in SFSAD granting via ADMIN start-up parameter SFSAD monitoring status of SFSAD internal recording of SFSAD moving a user from SFSAD REVOKE ADMIN operator command SFSAD regenerating SFSAD when ESECURITY is in effect SFSAD remote use considerations for SFSAD administration commands SFSAD removing space from SFSAD administration machine SFSAD reorganizing the catalogs of SFSAD See also administration authority replacing minidisks of SFSAD defining SFSAD restoring SFSAD MAXCONN setting for SFSAD by generating again SFSAD work minidisk for SFSAD in increments SFSAD availability CMSUG restricting access from other processors SFSAD allowing partial access to SFSAD restricting access to SFSAD auditing security of SFSAD server backing up SFSAD determining location ADRCMS

server machine	file system control block (FSCB)
controlling access to SFSAD	See FSCB (file system control block)
CP adjustments for SFSAD	file type APGDE, CMSLOT, PRIMER
defining SFSAD	attribute
description of SFSAD	spool files <b>OPGDE</b>
FILESERV commands for SFSAD	COBOL APGDE
how to automatically start SFSAD	COPY APGDE
IBM-supplied SFSAD	changing XEDIT
managing performance of SFSAD	created by assembler and language processors
monitor records generated by SFSAD	CMSUG
monitoring operation of SFSAD	defaults according to XEDIT
specifying start-up parameters for SFSAD	definition and use INTRO
starting multiple user mode processing for	EXEC APGDE
SFSAD	FORTRAN APGDE
stopping multiple user processing for SFSAD	FREEFORT APGDE
VMSERVS SFSAD	HELP facility CMSUG
VMSERVU SFSAD	HELPABBR CMSUG
server operator commands SFSAD	HELPCMS CMSUG
overview of SFSAD	HELPCMSQ CMSUG
setting space warning threshold for SFSAD	HELPCMSS CMSUG
starting multiple user access to SFSAD	HELPCP CMSUG
stopping access to SFSAD	HELPCPOT CMSUG
VMSYS SFSAD	HELPCPQU CMSUG
VMSYSU SFSAD	HELPCPSE CMSUG
file spaces CMSLOT, INTRO, PRIMER	HELPEDIT CMSUG
allocating to users SFSAD	HELPEXC2 CMSUG
backing up individually SFSAD	HELPEXEC CMSUG
changing space allocations of SFSAD	HELPGROU CMSUG
deleting SFSAD	HELPHELP CMSUG
description of SFSAD	HELPIPCS CMSUG
determining amount used CMSUG	HELPMENU CMSUG
determining limits CMSUG	HELPMSG CMSUG
disabling SFSAD	HELPPREF CMSUG
displaying amount used CMSLOT, PRIMER	HELPPVM CMSUG
enabling SFSAD	HELPQUER CMSUG
full, recovering from in editing session CMSUG	HELPREXX CMSUG
managing CMSUG	HELPSET CMSUG
maximum number of SFSAD	HELPSQLD CMSUG
maximum number of 4K blocks SFSAD	HELPSRPI CMSUG
moving to another storage group SFSAD	HELPTASK CMSUG
size of CMSUG	HELPTSAF CMSUG
storing files in <b>PRIMER</b>	HELPXEDI CMSUG
FILE spoolid operand	\$HLPABBR CMSUG
of TAG command GENCMD	\$HLPCMS CMSUG
file status table (FST)	\$HLPCMSQ CMSUG
See FST (file status table)	\$HLPCMSS CMSUG
File Storage Facility program offering INTRO	\$HLPCP CMSUG
FILE subcommand of XEDIT command APGDE,	\$HLPCPQU CMSUG
TERMREF, XEDIT	\$HLPCPSE CMSUG
example of use INTRO	\$HLPDEBU CMSUG
issued from a macro XEDIT	\$HLPEDIT CMSUG
to write CMS files CMSUG	\$HLPEXC2 CMSUG
versus FFILE XEDIT	\$HLPEXEC CMSUG
file system APGDE	\$HLPGROU CMSUG
of CMS INTRO	\$HLPHELP CMSUG

\$HLPIPCS CMSUG **\$HLPMENU CMSUG** \$HLPMSG CMSUG \$HLPPREF CMSUG \$HLPQUER CMSUG \$HLPREXX CMSUG \$HLPSET CMSUG \$HLPSQLD CMSUG SHLPTASK CMSUG \$HLPTSAF CMSUG \$HLPXEDI CMSUG in file identifier CMSUG LISTING CMSLOT LKEDIT APGDE LOADLIB APGDE MACLIB APGDE compressing APGDE displaying members of APGDE examining contents of APGDE extracting a member of APGDE manipulating members of APGDE printing members of APGDE system APGDE MACRO APGDE MAP APGDE of XEDIT macro XEDITUG program CMSLOT reserved for language processors CMSUG temporary work files CMSUG TEXT CMSLOT TXTLIB APGDE adding members to APGDE deleting members of APGDE replacing members of APGDE used by CMS commands CMSUG XEDIT APGDE files APGDE, TERMREF accessing APGDE adding lines to PRIMER AGWACI ASSEMBLE CONPAO alias CMSREF altering external attributes SYSCMD application interfaces ADGCMS area in XEDIT PRIMER area on screen XEDITUG authority CMSUG auxiliary ADGCMS base CMSREF

cache size changing SFSAD default setting of SFSAD changing PRIMER spool class of GENCMD spool filename for GENCMD spoolid **GENCMD** closing GENCMD, SFSAD, SPIUG creating files that are erased after being read **CMSUG** defining GCSREF erasing CMSUG file system APGDE, CMSUG, INTRO file system overview ADGCMS format CMSUG identifiers CMSUG renaming CMSUG COBOL APGDE updating APGDE workfiles APGDE communications directories See communications directory comparing PRIMER converting to a HELP file CMSUG COPY APGDE copying PRIMER copying between directories CMSLOT created by COBOL compiler APGDE created by FORTRAN compiler APGDE creating APGDE, PRIMER, SPIUG COBOL APGDE FORTRAN APGDE with CMS editor CMSREF with COPYFILE command CMSREF from DOS libraries ADGCMS from OS/MVS data sets ADGCMS or changing TERMREF defining ADGCMS and allocating space ADGCMS for CMS/DOS CMSREF OS input and output ADGCMS definition ADGCMS, PRIMER definitions ADGCMS deleting a lock CMSLOT, PRIMER lines from PRIMER records ADGCMS

determining if locked CMSUG determining ownership CMSUG

discarding after being read CMSUG	in typewriter mode XEDITUG
directory	I/O
accessing with a saved copy CMSREF	See console I/O
sharing information ADMIN	libraries APGDE
displaying APGDE, PRIMER, SPIUG	lines, stacking XEDIT
specified CMS file information via LISTFILE	listing APGDE, CMSLOT, PRIMER
CMSREF	listing information about CMSREF
distribution codes for GENCMD	LISTING (FORTRAN) APGDE
DOS ADGCMS	locking
editing APGDE	and unlocking CMSLOT, PRIMER
multiple APGDE, XEDIT	with a SHARE lock CMSLOT, PRIMER
effect of restore on SFSAD	with an EXCLUSIVE lock CMSLOT,
erasing APGDE, CMSLOT, PRIMER	PRIMER
executing APGDE	with an UPDATE lock CMSLOT, PRIMER
file attributes ADGCMS	logical grouping CMSUG
filing PRIMER	manipulating shared files ADGCMS
for a language	manipulation using System Product Editor
listing SFPROG	CMSUG
object SFPROG	master file directories CMSUG
source SFPROG	maximums related to SFSAD
for backups SFSAD	message log file PRIMER
format information ADGCMS	modifying APGDE, CMSREF, SPIUG
format, specifying on FILEDEF command	moving from device to device CMSREF
ADGCMS	multiple APGDE
FORTRAN APGDE	multivolume identification ADGCMS
updating APGDE	NAMES file
granting	See NAMES file
authority for SFS ADGCMS	opening a file for block I/O SFSAD
other users authority CMSLOT, PRIMER	OS COBOL APGDE
handling OS/MVS data	OS FORTRAN APGDE
residing on CMS disks ADGCMS	output APGDE
residing on OS/MVS disks ADGCMS	produced by ASSEMBLE command ADGCMS
holding GENCMD	overlaying data in
before output processing GENCMD	with COPYFILE command CMSREF
from further processing GENCMD	override ADMIN
identification ADGCMS	packing CMSREF
identification line XEDIT, XEDITUG	specifying fill character CMSREF
in XEDIT PRIMER	practice exercise using XEDITUG
identifiers APGDE, CMSLOT, PRIMER	printing APGDE
changing, using FILE XEDIT	in hexadecimal format CMSREF
changing, using SAVE XEDIT, CMSUG	specifying number of lines per page CMSREF
CMS, rules for assigning CMSUG	processing SPIUG
coded as equal sign (=) CMSUG	creating a file SPIUG
entering on FILEDEF command CMSREF	reading a file SPIUG
entering on LISTDS command CMSREF	writing a file SPIUG
file mode, definition and use INTRO	protect ring SECUR
file name, definition and use INTRO	protecting PRIMER
file type, definition and use INTRO	punched, restoring to disk
for PRIMER	with DISK LOAD command CMSREF
in command syntax CMSREF	punching to virtual card punch CMSREF
of AUTOSAVE file XEDIT	purging GENCMD
input APGDE	querying locks CMSLOT, PRIMER
inserting XEDITUG	reading SPIUG
in typewriter mode XEDITUG	from virtual card reader. CMSREF
records ADGCMS	VSAM tape ADGCMS

receiving PRIMER reclaiming GENCMD relating to OS ddname CMSREF relocating CMSLOT, PRIMER removing SFS authority ADGCMS renaming CMSLOT, PRIMER reordering closed spool files GENCMD replacing PRIMER old file with new copy CMSREF records ADGCMS requesting information about CMSUG revoking authority CMSLOT, PRIMER saving APGDE, PRIMER saving a list of PRIMER sending PRIMER sequence numbers in source files ADGCMS serialization XEDIT SFS file I/O ADGCMS SFS file space ADGCMS shadow copies of SFSAD sharing CMSLOT, INTRO, PRIMER across file pools CMSUG commands used CMSUG creating aliases to files CMSUG how to CMSUG SFS files ADGCMS sorting APGDE, PRIMER, SPIUG specifying for control data backups SFSAD splitting into smaller files CMSUG spool APGDE storage CMSLOT, PRIMER support of OS/MVS format ADGCMS system CMSUG tailoring skeletons APGDE terminating processing GENCMD TEXT APGDE executing APGDE too large to edit, what to do CMSUG transferring APGDE, INTRO ownership of SFSAD to another user **GENCMD** with DISK DUMP command CMSREF transferring data between using GET XEDIT using PUT XEDIT using PUTD XEDIT transmitting GENCMD, TERMREF unpack CMSREF update APGDE updating

for a national language ADMIN, SFPROG **VSAM** allocating ADGCMS defining ADGCMS, GCSREF warning log file PRIMER with users on other systems CMSUG workfiles, COBOL APGDE writing SPIUG writing blocks to SFSAD **\$SERVER\$ NAMES file** See NAMES file, \$SERVER\$ FILEDEF command APGDE, GCSREF and MACLIB members APGDE ALT option CMSREF as used for FILEPOOL BACKUP SFSAD assigning file mode numbers CMSUG AUXPROC option ADGCMS, CMSREF BLKSIZE option CMSREF, GCSREF BLOCK option ADGCMS, CMSREF, **GCSREF** BLP operand CMSREF CHANGE option CMSREF, GCSREF CLEAR option CMSREF, GCSREF CONCAT option CMSREF ddname operand GCSREF default definition ADGCMS default FILEDEF commands issued by assembler CMSREF definitions for MOVEFILE command **CMSREF** DEN option CMSREF description CMSREF, GCSREF, INTRO determining what file definitions are in effect **ADGCMS** device type, specifying ADGCMS DISK option CMSREF, GCSREF DISP MOD option ADGCMS, CMSREF, **GCSREF** DSORG option ADGCMS, CMSREF dsorg ps operand GCSREF dummy data set name specified ADGCMS DUMMY option CMSREF, GCSREF entering file identifications ADGCMS examples CMSREF of use INTRO file format, specifying ADGCMS for FILEPOOL FORMAT AUDIT control statement file SFSAD for FILEPOOL FORMAT AUDIT input file **SFSAD** 

Refer to the foldout page at the back of this book for a chart of abbreviations and their corresponding manuals.

for FILEPOOL FORMAT AUDIT output file	used with OS/MVS data sets ADGCMS
SFSAD	VOLID operand CMSREF
for FILEPOOL RESTORE SFSAD	when to use in CMS/DOS CMSREF
for ISPF APGDE	when to use (OS users) CMSREF
for restoring control data SFSAD	XTENT option CMSREF
for FILESERV REORG temporary file SFSAD	18TRACK option CMSREF
GRAF option CMSREF	7TRACK option CMSREF
guidelines for entering ADGCMS	9TRACK option CMSREF
in EXECs APGDE	FILEDEF definitions
issued by assembler, overriding ADGCMS	clearing ADGCMS, CMSREF
KEYLEN option CMSREF	displaying CMSREF
LABOFF operand CMSREF	making with FILEDEF command ADGCMS
LEAVE option CMSREF	FILEFCB operand
LIMCT option CMSREF	of START command SYSCMD
LOWCASE option CMSREF	fileid
LRECL option CMSREF, GCSREF	See file identifiers
MEMBER option ADGCMS, CMSREF	fileid, variable
NL operand CMSREF	described GENCMD, SYSCMD
NOCHANGE option CMSREF, GCSREF	FILELIST command APGDE, CMSLOT,
NOEOV option CMSREF	CMSREF, PRIMER
NSL operand CMSREF	APPEND option CMSREF
OPTCD option CMSREF	FILELIST option CMSREF
options APGDE	NOFILELIST option CMSREF
AUXPROC ADGCMS	PROFILE option CMSREF
BLOCK ADGCMS	setting defaults CMSREF
DISP MOD ADGCMS	in full-screen CMS CMSUG
DSORG ADGCMS	in SFS CMSUG
PERM ADGCMS	to list files in full-screen environment CMSUG
RECFM ADGCMS	to save a list of files <b>PRIMER</b>
SYSPARM ADGCMS	to save a list of files to send CMSLOT
OS simulation CMSUG	FILELIST environment
•	
overiding default file definitions ADGCMS	headings CMSLOT
PERM option ADGCMS, CMSREF,	using XEDIT from CMSLOT
GCSREF	FILELIST file type PRIMER
positioning read/write pointer CMSREF	FILELIST SEARCH screen
PRINTER option CMSREF	description CMSUG
PUNCH option CMSREF, GCSREF	PF keys CMSUG
READER option CMSREF, GCSREF	FILELIST SHARE screen CMSLOT, PRIMER
RECFM option CMSREF, GCSREF	description CMSUG
RECFM option ADGCMS	PF keys CMSUG
required during FILESERV REGENERATE	FILELIST STATS screen CMSLOT, PRIMER
processing SFSAD	description CMSUG
SL operand CMSREF	PF keys CMSUG
standard tape labels CMSUG	FILEPOOL BACKUP command
SUL operand CMSREF	comparison with FILESERV BACKUP SFSAD
SYSPARM option ADGCMS, CMSREF	instructions for using SFSAD
tape label processing CMSUG	reference information for SFSAD
TAPn option CMSREF	FILEPOOL CLEANUP command SFSAD
TERMINAL option CMSREF	FILEPOOL FORMAT AUDIT command SFSAD
to invoke the programmable operator SFPROG	instructions for using SFSAD
TRTCH option CMSREF	keyword control statements for SFSAD
UPCASE option CMSREF	output format of SFSAD

selectivity prompts for SFSAD using control file for SFSAD FILEPOOL operand of IPL control statement **SFSAD** FILEPOOL RESTORE command SFSAD instructions for using SFSAD performance tip for SFSAD filepoolid CMSUG FILEPOOLID start-up parameter SFSAD using to restrict user access SFSAD filepoolid, variable described GENCMD, SYSCMD FILEREQ control statement for FILEPOOL FORMAT AUDIT SFSAD FILES message TERMREF FILES operand of QUERY command GENCMD, SYSCMD FILES parameter DMSERASE (SFS Erase) ADRCMS FILESERV BACKUP command SFSAD comparison with FILEPOOL BACKUP **SFSAD** FILESERV commands descriptions of SFSAD return codes for SFSAD specifying start-up parameters for SFSAD FILESERV DEFAUDIT command instructions for using SFSAD reference information for SFSAD FILESERV DEFBACKUP command instructions for using SFSAD reference information for SFSAD FILESERV GENERATE command instructions for using SFSAD reference information for SFSAD using to restore a file pool SFSAD FILESERV LIST command SFSAD FILESERV LOG command instructions for using SFSAD reference information for SFSAD FILESERV MINIDISK command instructions for using SFSAD recovering from failures of SFSAD reference information for SFSAD FILESERV MOVEUSER command instructions for using SFSAD reference information for SFSAD

recovering from failures of SFSAD reference information for SFSAD FILESERV REORG command instructions for using SFSAD reference information for SFSAD FILESERV START command SFSAD fill characteristic possible values SAACOM set SAACOM FILL option of COPYFILE command CMSREF FILL parameter (APPC) of RECEIVE\_AND\_WAIT CONGREF filler character defining XEDIT removed by COMPRESS XEDIT **FILLER** option of EXTRACT XEDIT of QUERY XEDIT of SET XEDIT of TRANSFER XEDIT filtering messages SFPROG trace entries with CPTRAP DIAG FIND function SPIREF. SPIUG FIND subcommand of XEDIT command APGDE, **XEDIT** example of XEDIT with DBCS strings XEDIT finding a mismatch using COMPARE SPIREF a string in another string SPIREF address of DCSS ADMIN data **XEDIT** using a target XEDITUG using CLOCATE XEDITUG using LOCATE CMSLOT files in FILELIST CMSLOT IPL statement information, DIAGNOSE code X'B0' SFPROG location of address ADMIN phrase in a string SPIUG saved systems SFPROG string in another string SPIUG text in a file PRIMER the length of a string SPIREF

chart of abbreviations and their corresponding manuals.

FILESERV REGENERATE command

instructions for using SFSAD

FINDSYS function ADMIN, SFPROG

with DBCS strings XEDIT

APGDE, XEDIT

FINDUP subcommand of XEDIT command

Refer to the foldout page at the back of this book for a

FINIS command CMSMIG, CMSREF, SPIUG	flow
first in/first out	definition of SAACOM
See FIFO	diagrams SAACOM
first level installation, definition INST	flow control
first-level storage	abnormal, with SIGNAL SPIREF
definition ADMIN	with CALL/RETURN SPIREF
requesting GENCMD	with DO construct SPIREF
first-level VM system	with IF construct SPIREF
defining RGOS	with SELECT construct SPIREF
directory entry RGOS	FLS macro GCSREF
issuing CP commands to RGOS	description GCSREF
spooling RGOS	FLSCREN option
firstpage operand	of EXTRACT XEDIT
of LOCK command SYSCMD	FLSCTB DIAG
of UNLOCK command SYSCMD	FLUSH command INTRO
fixed head feature	described SYSCMD
RDEVICE macro PLNGDE	operands
fixed packed record format XEDIT	ALL SYSCMD
fixed point number	HOLD SYSCMD
description of SPIUG	
•	lprt SYSCMD raddr SYSCMD
specifying SPIUG fixed record format XEDIT	
	responses SYSCMD
fixed-head preferred paging area	summary OPGDE, SYSCMD
migration ADMIN	syntax diagram, class D SYSCMD
fix-in-error, remove (SNA service) SERV	usage notes SYSCMD
fixed-length files, converting to variable-length	flush list
CMSREF	definition ADMIN, SYSMSG
fixed-length record, description INTRO	Flush (CMFLUS) routine CONGREF
fixing system problems INTRO	call description SAACOM
fixing typing mistakes PRIMER	example flow using SAACOM
FIXUP command APGDE	FMH5 (Functional Management Header 5)
FIXUP subcommand of TESTFORT command	parameter
APGDE	CONNECT function CONGREF
FLAG field	FMH DATA SAACOM
of CONNECT request (*IDENT) CONGREF	FMODE option
FLAG option of ASSEMBLE command CMSREF	of EXTRACT XEDIT
FLash name operand	of LISTFILE command CMSREF
of CHANGE command GENCMD	of QUERY XEDIT
of SPOOL command GENCMD	of SET XEDIT
FLASH operand	of TRANSFER XEDIT
of CHANGE command SYSCMD	fm, variable
of START command SYSCMD	described GENCMD, SYSCMD
flashing (forms overlay)	described GENCMD, SYSCMD
3800 printer ADMIN	fn ft fm used to represent file identifier CMSREF
FLOAT data type in SQL	FNAME option
COBOL APGDE	of EXTRACT XEDIT
FORTRAN APGDE	of LISTFILE command CMSREF
floating-point number	of QUERY XEDIT
description of SPIUG	of SET XEDIT
specifying SPIUG	of TRANSFER XEDIT
floating-point registers	FOB macro ADMIN
changing GENCMD	FOB (font offset buffer) ADMIN
displaying GENCMD	altering PLNGDE
printing GENCMD	for 3289 Model 4 printer
	adding ADMIN

loading sample files from product tape INST of PURGE command GENCMD purpose of ADMIN of QUERY command GENCMD tailoring INST of SPOOL command GENCMD FOBCCW macro ADMIN of TRANSFER command GENCMD following line as destination XEDIT FORM operand following virtual machine activity GENCMD of CLOSE command GENCMD font offset buffer (FOB) of ORDER command SYSCMD See FOB (font offset buffer) of PURGE command SYSCMD FOR hh:mm operand of QUERY command SYSCMD of SPTAPE command SYSCMD of MONITOR command SYSCMD of START command SYSCMD FOR operand of TRANSFER command SYSCMD of COPYFILE command CMSREF of CP SPOOL command, usage CMSUG FORM option of NUMERIC instruction SPIREF of SPOOL command GENCMD form width codes PLNGDE of TRACE subcommand IPCSREF format FOR parameter for all cylinders except cylinder zero ADMIN for CP-owned CKD devices ADMIN DMSQLIMU (SFS Query Limits—Single User) for CP-owned FBA devices ADMIN **ADRCMS** FOR phrase of DO instruction SPIREF for cylinder zero ADMIN FOR userid operand of calls SAACOM of SPTAPE command SYSCMD of cylinder zero SFPROG FORCE command ADMIN, INTRO of cylinders for CP use SFPROG described SYSCMD of DIAGNOSE instruction SFPROG operand of macros and subcommands userid SYSCMD ADDENTRY subcommand SRPI responses SYSCMD DELENTRY subcommand SRPI summary OPGDE, SYSCMD GETREQ subcommand SRPI syntax diagram, class A SYSCMD SENDREQ subcommand SRPI usage notes SYSCMD SETREPLY subcommand SRPI FORCE operand of messages SYSMSG of PURGE command SYSCMD identifier SYSMSG of VARY command SYSCMD text SYSMSG FORCE operator command SFSAD of trace output IPCSREF of user identification card OPGDE FORCE parameter DMSPURWU (Purge Workunitid) ADRCMS FORMAT command SFSAD force start OPGDE as used during file pool regeneration SFSAD VM/SP HPO OPGDE as used during minidisk replacement SFSAD **BLKSIZE** option **CMSREF** forcing a file pool server user SFSAD description CMSREF logoff SYSCMD examples CMSREF LABEL option CMSREF output to be single spaced SYSCMD NOERASE option CMSREF forecasting INTRO performance considerations CMSREF foreign languages RECOMP option CMSREF See languages, national selecting appropriate blocksize CMSREF FOREVER repetitor on DO instruction SPIREF to format a CMS minidisk CMSUG FORM form operand FORMAT control statement ADMIN of CHANGE command GENCMD, SYSCMD of Format/Allocate program SFPROG of ORDER command GENCMD FORMAT function SPIREF, SPIUG

Refer to the foldout page at the back of this book for a chart of abbreviations and their corresponding manuals.

FORMAT option	and printing documents INTRO
of DETAIL HELP CMSUG	AVS trace records <b>DIAG</b>
of IPCSPRT command IPCSREF	CMS minidisks, example CMSUG
of LISTDS command CMSREF	conventions for macros GCSREF
of LISTFILE command CMSREF	count-key-data DASD ADMIN, SFPROG
of TRACE subcommand IPCSREF	DASD volumes INST
of TRAPFILE command IPCSREF	DBCS blank adjustments SPIREF
FORMAT start-up parameter SFSAD	DBCS bracket adding SPIREF
as used by FILESERV GENERATE processing	DBCS bracket stripping SPIREF
SFSAD	DBCS DBCS strings to SBCS SPIREF
	DBCS EBCDIC to DBCS SPIREF
as used by FILESERV MINIDISK processing	
SFSAD	DBCS string width SPIREF
as used in replacing log minidisks SFSAD	DBCS text justification SPIREF
FORMAT subcommand of IPCSPRT command	disk ADMIN
description IPCSREF	FB-512 DASD ADMIN
example output IPCSREF	FBA DASD SFPROG
format IPCSREF	files ADGCMS
functional category IPCSREF	minidisks INTRO, INST
messages IPCSREF	numbers for display SPIREF
response IPCSREF	numbers with TRUNC SPIREF
usage note IPCSREF	of output during tracing SPIREF
FORMAT subcommand of IPCSSCAN command	OS and DOS disks ADGCMS
description IPCSREF	output
example output IPCSREF	lining up numbers SPIUG
format IPCSREF	putting in columns SPIUG
functional category IPCSREF	SYSCKP area after CP nucleus load error INST
messages IPCSREF	SYSWRM area after CP nucleus load error
response IPCSREF	INST
usage notes IPCSREF	
•	temporary disks ADGCMS
FORMAT vmtype operand	text centering SPIREF
of VMDUMP command GENCMD	text justification SPIREF
format words	text left justification SPIREF
summary CMSUG	text left remainder justification SPIREF
.IL (Indent Line) CMSUG	text right justification SPIREF
.BX (BOX) CMSUG	text right remainder justification SPIREF
.CM (Comment) CMSUG	text spacing SPIREF
.CS (Conditional Section) CMSUG	text validation function SPIREF
.FO (Format Mode) CMSUG	the output of an audit SFSAD
.IN (Indent) CMSUG	trace records CONPAO
.MT (Menu Type) CMSUG	volumes, general information ADMIN,
.OF (Offset) CMSUG	SFPROG
.SP (Space Lines) CMSUG	Format/Allocate service program ADMIN,
.TR (Translate Character) CMSUG	SFPROG
format-mode, processing CMSUG	ALLOCATE control statement ADMIN,
formats	SFPROG
CP disk ADMIN	card input ADMIN, SFPROG
of commands, interpreting PRIMER	console input ADMIN, SFPROG
formatted device capacity ADMIN, SFPROG	control statements ADMIN, SFPROG
formatter interface, trace entry, IPCS IPCSREF	creating stand-alone version SERV
	•
formatter invocation, by IPCS IPCSREF	cylinder format SFPROG
formatting	cylinder zero format SFPROG
a file	described ADMIN, SFPROG
and displaying CMSLOT	example of execution ADMIN, SFPROG
and printing CMSLOT	FORMAT control statement ADMIN, SFPROG
using Script for CMSLOT	

LABEL control statement ADMIN, SFPROG language, examples location on Starter System Tape INST call to CSL routine ADRCMS overlap function for FBA devices SFPROG program calling DMSERP ADRCMS main variables (exceptions) APGDE SYSPAG macro considerations PLNGDE OS FORTRAN files APGDE VM under VM session RGOS 3880 considerations ADMIN SOL FORMF function SPIREF data types APGDE forms control ADMIN invoking APGDE description for 3800 printer OPGDE preprocessor APGDE for virtual printer, specifying GENCMD SOL commands APGDE forms control buffer (FCB) ADMIN updating source files APGDE file, (DMKFCB) using the VM/SP HPO Vector Facility support function INST **APGDE** loading sample file INST **VS INTRO** tailoring INST VS FORTRAN interactive debug APGDE loading RGOS VS FORTRAN Version2 Compiler APGDE supplied with starter systems PLNGDE FORTRAN IV G1 compiler APGDE forms overlay (flashing) and ISPF APGDE description for 3800 printer ADMIN, OPGDE FORTVS2 command APGDE, CMSLOT, formula for calculating number of agents SFSAD PRIMER form1 operand FORWARD command of DMS/CMS APGDE of ORDER command SYSCMD forward of PURGE command SYSCMD moving the line pointer XEDIT form2 operand scrolling in XEDIT PRIMER of ORDER command SYSCMD search XEDITUG of PURGE command SYSCMD FORWARD subcommand of XEDIT command APGDE, XEDIT, XEDITUG form, variable described GENCMD, SYSCMD assigned to PF key XEDIT FORM = E operand four-channel switch DMSFST macro ADRCMS RDEVICE macro PLNGDE FSCB macro ADRCMS four-digit device addresses CMSMIG FSOPEN macro ADRCMS FP FUNCTION CODE field in FILEPOOL FSPOINT macro ADRCMS FORMAT AUDIT output SFSAD FSREAD macro ADRCMS FPERROR macro FSSTATE macro ADRCMS general format ADRCMS FSWRITE macro ADRCMS FPRLOG (floating-point registers) field DIAG FORTRAN CMSLOT, PRIMER FPR = operand and ISPF APGDE CMSRET macro ADRCMS compilers APGDE fragmentation FORTRAN IV G1 and ISPF APGDE of catalog indexes SFSAD VS FORTRAN APGDE storage DIAG VS FORTRAN Version 2 APGDE frames INTRO ddnames in APGDE page filetype APGDE unlocking those previously locked SYSCMD tab settings APGDE reserve page INCLUDE statement of SQL APGDE for multiple users SYSCMD interactive debug APGDE

Refer to the foldout page at the back of this book for a chart of abbreviations and their corresponding manuals.

rkee command Siscill	rkeeroki metype <b>Argbe</b>
operands	tab settings APGDE
ALL SYSCMD	FREEFORT file
PRINTER SYSCMD	renumbering XEDIT
PUNCH SYSCMD	FREELOWE
userid SYSCMD	conversion considerations CMSMIG
operator use INTRO	FREEMAIN macro DIAG, GCSREF
summary OPGDE, SYSCMD	a parameter GCSREF
syntax diagram, class D SYSCMD	e parameter GCSREF
free list	eu parameter GCSREF
definition ADMIN, SYSMSG	execute format GCSREF
FREE operand	list format GCSREF
of NETWORK command SYSCMD	ly parameter GCSREF
of QUERY command SYSCMD	mf parameter GCSREF
FREE option of LISTDS command CMSREF	r parameter GCSREF
free storage DIAG	rc parameter GCSREF
allocating ADRCMS	ru parameter GCSREF
using SYSCOR macro to control ADMIN	sp parameter GCSREF
changes to GETMAIN and FREEMAIN	v parameter GCSREF
CMSMIG	vu parameter GCSREF
converting from DMSFREE and DMSFRET	Freemain via SVC (type 09) entry DIAG
to CMSSTOR CMSMIG	FREESAVE DIAG
GETMAIN macro	FREEWORK (DMKFRE and DMKFRT
conversion considerations CMSMIG	save area) DIAG
managing CMSMIG	FRLABEL option of COPYFILE command
managing subpools CMSMIG	CMSREF
obtaining CMSMIG	From ALL operand
releasing ADRCMS, CMSMIG	of TRANSFER command SYSCMD
monitored in CP internal trace table	FROM clause of SQL APGDE
SYSCMD	FROM h1:m1 operand
	of MONITOR command SYSCMD
requests monitored in CP internal trace table	
	FROM operand of COPYFILE command CMSREF
SYSCMD	
sample layout CMSMIG	of GENMOD command CMSREF
STRINIT macro	of PER command GENCMD
conversion considerations CMSMIG	of TRANSFER command GENCMD
subpool types CMSMIG	of TRACE subcommand IPCSREF
free storage management ADGCMS	FROM parameter
CMSCALL macro	DMSREVOK (SFS Revoke Authority)
general formats ADGCMS	ADRCMS
creating subpools ADGCMS	FROM SYSTEM operand
obtaining free storage ADGCMS	of DETACH command SYSCMD
releasing free storage ADGCMS	FROM userid operand
sample storage layout ADGCMS, CMSMIG	of DETACH command SYSCMD
SUBPOOL macro	of NETWORK command SYSCMD
general formats ADGCMS	of TRANSFER command SYSCMD
free storage requirements	FROM * operand
when using shadow tables RGOS	of DETACH command SYSCMD
free storage subpools	fromhexloc operand of CHAIN subcommand
creating ADRCMS	IPCSREF
deleting ADRCMS	fromloc operand of TRACE subcommand
releasing ADRCMS	IPCSREF
	FSCR (file system control block) ADCCMS

FSCB = operand ADRCMS FSCB macro BSIZE = operand ADRCMS generating reentrant code ADRCMS BUFFER = operand ADRCMS modifying a file system control block CACHE = operand ADRCMS **ADGCMS** MSG = operand ADRCMS creating a file system control block ADGCMS file system control block ADRCMS NOMSG = operand ADRCMS FORM = E operand ADRCMS NOREC = operand ADRCMS general format ADRCMS OPENTYP = operand ADRCMS readying files for input or output ADRCMS modifying a file system control block ADGCMS multiple FSCBs ADRCMS RECFM = operand ADRCMS NOREC operand ADRCMS RECNO = operand ADRCMS OPENTYP = operand ADRCMS SFS files, use with ADRCMS RECFM = operand ADRCMS FSPOINT macro ADGCMS RECNO = operand ADRCMS ERROR = operand ADRCMS FORM = E operand ADRCMS FSCBD macro DSECT for file system control block (FSCB) FSCB = operand ADRCMS generating reentrant code ADRCMS **ADRCMS** macro expansion ADRCMS RDPNT = operand ADRCMS mapping a file system control block ADGCMS resetting write and read pointers ADRCMS FSCB = operandSFS files, accessing ADRCMS FSCLOSE macro ADRCMS WRPNT = operand ADRCMS FSERASE macro ADRCMS FSREAD macro BSIZE = operand ADRCMS FSOPEN macro ADRCMS FSPOINT macro ADRCMS BUFFER = operand ADRCMS FSREAD macro ADRCMS creating a file system control block ADGCMS end-of-file checking ADGCMS FSSTATE macro ADRCMS FSWRITE macro ADRCMS ERROR = operand ADRCMS FSCLOSE macro FORM = E operand ADRCMS closing files ADGCMS FSCB = operand ADRCMS closing open files ADRCMS generating reentrant code ADRCMS modifying a file system control block closing SFS files ADRCMS ERROR = operand ADRCMS **ADGCMS** FSCB = operand ADRCMS NOREC = operand ADRCMS generating reentrant code ADRCMS reading records from CMS disk file to threshold, SFS filespace ADRCMS I/O buffer ADRCMS updating files ADGCMS RECFM = operand ADRCMS FSEQ operand of LABELDEF command CMSREF RECNO = operand ADRCMS FSERASE macro SFS files, accessing ADRCMS deleting CMS files from minidisk or support for variable-length records ADRCMS SFS directory ADRCMS threshold, SFS filespace ADRCMS erasing files ADGCMS usage examples ADGCMS ERROR = operand ADRCMS**FSSTATE** macro FSCB = operand ADRCMS creating a copy of FST ADRCMS SFS base files, aliases ADRCMS determining existence of files ADRCMS FSOPEN macro ERROR = operand ADRCMS BISIZE = operand ADRCMS FORM = E operand ADRCMS BUFFER = operand ADRCMS FSCB = operand ADRCMS CACHE = operand ADRCMS mapping information returned by ADRCMS ERROR = operand ADRCMS MSG = operand ADRCMS

FORM = E operand ADRCMS

STATEW = operand ADRCMS

Refer to the foldout page at the back of this book for a chart of abbreviations and their corresponding manuals.

FST (file status table) ADGCMS, ADRCMS	considerations for migrating CMSUG
creating a copy of using FSOPEN macro ADRCMS	copying the physical screen to a CMS file CMSREF
using FSSTATE macro ADRCMS	defining a virtual screen or window CMSREF
setting up ADRCMS	deleting a virtual screen definition CMSREF
FSTD macro ADRCMS	deleting a window definition CMSREF
FSWRITE macro	dropping a window CMSREF
BSIZE = operand ADRCMS	entering commands from the screen CMSUG
BUFFER = operand ADRCMS	erasing data in a virtual screen CMSREF
creating a file system control block ADGCMS	location information CMSUG
ERROR = operand ADRCMS	maximizing windows CMSREF, CMSUG
FORM = E operand ADRCMS	messages CMSUG
FSCB = operand ADRCMS	migrating from line-mode CMS CMSUG
generating reentrant code ADRCMS	minimizing windows CMSREF
modifying a file system control block ADGCMS	PA and PF keys
NOREC = operand ADRCMS	Backward CMSUG
RECFM = operand ADRCMS	Clear Top CMSUG
RECNO = operand ADRCMS	Cursor CMSUG
SFS files, work unit ID ADRCMS	Filelist CMSUG
update-in-place facility ADRCMS	Forward CMSUG
updating files of variable-length records ADRCMS	Help CMSUG
usage examples ADGCMS	Left CMSUG
writing records from I/O buffer to CMS disk file	Pop Msg CMSUG
ADRCMS	Quit CMSUG
writing records sequentially ADRCMS	Rdrlist CMSUG
FTA	Retrieve CMSUG
coding RDEVICE macro PLNGDE	Right CMSUG
FTCLOSE APGDE	PA1 key CMSUG
FTERASE APGDE	PA2 key CMSREF
FTINCL APGDE	physical screen characteristics
FTOPEN APGDE	command line CMSUG
FTYPE option	data area CMSUG
of EXTRACT XEDIT	location information CMSUG
of LISTFILE command CMSREF	PF key definition area CMSUG
of QUERY XEDIT	status area CMSUG
of SET XEDIT	title line CMSUG
of TRANSFER XEDIT	popping a window CMSREF
ft, variable	positioning the cursor in a virtual screen
described GENCMD, SYSCMD	CMSREF
full file space during editing session CMSUG	positioning windows CMSREF, CMSUG
full minidisk during editing session CMSUG	restoring windows CMSUG
full-screen	setting the reserved line CMSUG
display TERMREF	setting window borders CMSUG
editing INTRO	sizing windows CMSUG
I/O ADGCMS	sounding the alarm CMSREF
menus SPIUG	starting PRIMER
mode XEDITUG	status information CMSUG
editing in XEDIT	status notices
HELP facility INTRO	enter a command or press a PA or PF key
full-screen CMS CMSUG	CMSUG
Border commands CMSUG	enter your response in vscreen vname CMSUG
CLEAR key CMSREF	executing a command CMSUG
clearing a window CMSREF	scroll forward for more information in vscreen
clearing a window CMSREF commands CMSUG	vname CMSUG
commands Civisus	

suspending PRIMER TYPE ADMIN system-defined windows and virtual screens function ID in CPRB field CRBFID, layout SRPI using CMSUG, PRIMER in CPRB when SENDREQ issued SRPI writing lines from a file to a virtual screen in CPRB, fields used on entry to server SRPI in definition of service function SRPI **CMSREF** in GETREO subcommand SRPI writing virtual screen data to a CMS file **CMSREF** loading, in sample program SRPI full-volume minidisks return code 1550(060E) SRPI initializing with DSF RGOS function invocation FULLDUMP start-up parameter SFSAD predefined function EXEC2 **FULLPROMPT** option user-defined functions EXEC2 of DISK command CMSREF function keys TERMREF PC, IBM TERMREF **FULLREAD** option function pools of ISPF APGDE of EXTRACT XEDIT of QUERY XEDIT function trace option in ISPF APGDE of SET XEDIT function types of CP command CMSUG function call SPIUG analyst SYSCMD function complete interrupt CONGREF CE SYSCMD RECEIVE CONGREF general SYSCMD SENDCNF CONGREF operations SYSCMD SENDDATA CONGREF programmer SYSCMD SENDERR CONGREF resource SYSCMD service SYSCMD function completion ACCEPT CONGREF spooling SYSCMD CONNECT CONGREF functional descriptions of IUCV macro parameters SFPROG DCLBFR CONGREF DESCRIBE CONGREF Functional Management Header 5 RECEIVE CONGREF See FMH5 (Functional Management RTRVBFR CONGREF Header 5) SENDCNF CONGREF functional summary of CP commands SYSCMD SENDCNFD CONGREF SENDDATA CONGREF functions SENDERR CONGREF ABBREV SPIUG SENDREQ CONGREF ARG SPIUG SETCMASK CONGREF arguments for SPIUG SETMASK CONGREF built-in SPIREF, SPIUG SEVER CONGREF calling EXECs as SPIREF TESTCMPL CONGREF COMPARE SPIUG TESTMSG CONGREF **COPIES SPIUG** DATATYPE SPIUG function control statements See also DDR (DASD DUMP/Restore) **DELWORD SPIUG** description of SPIREF, SPIUG DDR (DASD DUMP/Restore) SFPROG differences with subroutines SPIUG COPY ADMIN example of SPIUG description ADMIN external SPIREF, SPIUG **DUMP ADMIN** external interface SPIREF PRINT ADMIN external packages SPIREF RESTORE ADMIN FIND SPIUG for VM/SP information SPIREF

Refer to the foldout page at the back of this book for a chart of abbreviations and their corresponding manuals.

forcing built-in or external reference **SPIREF** FORMAT SPIUG HALF SPIUG **INDEX SPIUG** internal SPIREF, SPIUG invocation of SPIREF LASTPOS SPIUG LEFT SPIUG LENGTH SPIUG **MAX SPIUG** numeric arguments of SPIREF OVERLAY SPIUG POS SPIUG predefined EXEC2 RANDOM SPIUG return from SPIREF returning from SPIUG search order SPIUG SIGN SPIUG similarities with subroutines SPIUG SNA SFPROG SOURCELINE SPIUG SUBSTR SPIUG SUBWORD SPIUG

SYMBOL SPIUG

TRANSLATE SPIUG TRUNC SPIUG user-defined EXEC2 user-written SPIUG using the ARG instruction SPIUG VALUE SPIUG variables in SPIREF VERIFY SPIUG WORD SPIUG WORDINDEX SPIUG WORDLENGTH SPIUG WORDS SPIUG written in Assembler language SPIUG function, built-in See built-in functions FUNCTN field IPCSREF FUNCTN output field of STAT command **IPCSREF FUZZ** controlling numeric comparison SPIREF option of NUMERIC instruction SPIREF **FUZZ** option of NUMERIC instruction SPIUG FUZZF function SPIREF fuzzy arithmetical comparison SPIUG FXDLOG (fixed logout area) DIAG

G	(anomala) CONDAC
	(example) CONPAO
G subcommand of IPCSSCAN command	inbound connection through non-dedicated
description IPCSREF	(example) CONPAO
example output IPCSREF	nondedicated CONGREF
format IPCSREF	outbound connection through
functional category IPCSREF	(example) CONPAO
messages IPCSREF	revoking CONPAO
responses IPCSREF	revoking collection identification CONPAO
usage notes IPCSREF	types CONPAO
gateways INTRO	GCB operand of GDISPLAY subcommand
activating CONPAO	IPCSREF
authorization to	GCS dump option of IPCSPRT command
connect to CONPAO	IPCSREF
manage CONPAO	GCS file type used in CMS CMSUG
block for AVS, displaying IPCSREF	GCS load map (GCSNUC MAP) IPCSREF
control statements for CONPAO	GCS (Group Control System) GCSREF, GIM,
deactivating CONPAO	PLNGDE, RGOS, TERMREF
deactivating conversation on CONPAO	See also PROFILE GCS
defining CONPAO	abend codes SYSMSG
maximum number of sessions for CONPAO	action for SYSMSG
to VTAM CONPAO	codes SYSMSG
description CONGREF, CONPAO	problem determination SYSMSG
displaying CONPAO	reason for SYSMSG
examples of	user action SYSMSG
defining to VTAM CONPAO	abend message DIAG
	abends DIAG
inbound connections through CONPAO	accessing other saved segments INST
IUCV gatewayid statement CONPAO IUCV *IDENT statement CONPAO	AGWPROF GCS CONPAO
	alternate nucleus placement INST
outbound connections through CONPAO	and the programmable operator facility
global CONGREF	SFPROG
example of CONPAO	at a glance GCSREF
general description CONPAO	authorized user IDs INST
inbound connection through (example)	building nucleus INST
CONPAO	PUT/COR procedure SERV
outbound connection through (example)	using VMFBLD SERV
CONPAO	using VMFLOAD SERV
identifying	checklist for reporting abends DIAG
multiple gateways CONPAO	commands
to collection CONPAO	See GCS (Group control System) commands
to VTAM CONPAO	common dump receiver INST
IUCV *IDENT CONPAO	common lock DIAG
name specified in locally known LU name	configuration file DIAG, INST
CONPAO	building INST
overview CONPAO	planning INST
private	console constants DIAG
dedicated CONGREF	control blocks DIAG
determining which to use CONPAO	control file
general description CONPAO	used for system updates SERV

Refer to the foldout page at the back of this book for a chart of abbreviations and their corresponding manuals.

debugging	segment PLNGDE
See GCS (Group Control System) debugging	specific purpose GCSREF
defining AVS virtual machine to CONPAO	storage requirements INST
definition ADMIN, CONPAO, GCSREF,	system ID INST
SYSMSG	system integrity SECUR
directories for SFSAD	system minidisk INST
directory entry INST	system minidisk extension INST
dumps INTRO	system name INST
analyzing DIAG	system name table entry INST
initiating <b>DIAG</b>	System Network Architecture (SNA) GIM
environment SPIREF	trace table <b>DIAG</b>
error messages SYSMSG	trace table size INST
external trace table formatted entries,	virtual machine group INTRO
examples	writing APPC/VM programs for CONGREF
entry type X'0A' DIAG	GCS (Group Control System) commands GCSREF
entry type X'0B' DIAG	ACCESS GCSREF
entry type X'0C' DIAG	DLBL GCSREF
entry type X'0E' DIAG	ETRACE GCSREF
entry type X'02' DIAG	FILDEF GCSREF
entry type X'03' DIAG	FILEDEF GCSREF
entry type X'05' DIAG	format GCSREF
entry type X'08' DIAG	GDUMP GCSREF
entry type X'09' DIAG	GLOBAL GCSREF
immediate commands GCSREF	halting GCSREF
installing INTRO	HX GCSREF
installing multiple GCS systems INST	ITRACE GCSREF
internal trace table DIAG	LOADCMD GCSREF
See also GCS (Group Control System)	OSRUN GCSREF
internal trace table formats	QUERY GCSREF
introduction GCSREF, INTRO	RELEASE GCSREF
load map INST	REPLY GCSREF
LOADCMD CONPAO	SET GCSREF
loading code from product tape INST	to load AVS CONPAO
loading national language files INST	GCS (Group Control System) debugging
loadlist SERV	dumping facilities <b>DIAG</b>
loading from product tape INST	common dump receiver DIAG
modified when building nucleus INST	how to initiate dumps DIAG
macro instruction formats GCSREF	rules of authorization DIAG
maximum virtual machines in group INST	external tracing facilities DIAG
national language files, saving SFPROG	CPTRAP command DIAG
nucleus	displaying external trace records <b>DIAG</b>
alternate placement INST	ETRACE command DIAG
building INST	ETRACE GROUP DIAG
nucleus constant area DIAG	external trace table formatted entries,
obtaining a GCS IPCS map DIAG	examples DIAG
planning	formatting external trace records <b>DIAG</b>
configuration file entries INST	interactive debug support DIAG
directory entry INST	analyzing dumps <b>DIAG</b>
storage requirements INST	CP commands DIAG
system name table entry INST	dumping VSAM information DIAG
profile INTRO	internal tracing facilities <b>DIAG</b>
PROFILE GCS CONPAO	GTRACE macro DIAG
recovery machine INST	internal trace table formats DIAG
saved segments accessed INST	ITRACE command DIAG
saving named system INST	· · ·

GCS (Group Control System) internal trace	format operand GCSREF
table formats	hexloc operand GCSREF
formats DIAG	to operand GCSREF
GTRACE entries DIAG	GEN option
GTRACE (type X'0E') DIAG	of MACLIB command APGDE, CMSREI
header1 DIAG	of TXTLIB command APGDE
header2 DIAG	GENCB macro instruction GCSREF
how to look at entries DIAG	GENCB macro (VSAM) GCSREF
supervisor entries <b>DIAG</b>	a parameter GCSREF
APPC/VM synchronous event (type X'0C')	acb parameter GCSREF
DIAG	address parameter GCSREF
branch entry Freemain (type X'0B') DIAG	am parameter GCSREF
branch entry Getmain (type X'0A') DIAG	area parameter GCSREF
dispatcher (type X'01') DIAG	arealen parameter GCSREF
external interrupt (type X'02') DIAG	arg parameter GCSREF
Freemain via SVC (type X'09') DIAG	blk parameter GCSREF
Getmain via SVC (type X'08') DIAG	bufnd parameter GCSREF
header1 DIAG	bufni parameter GCSREF
IUCV signal system service (type X'07')	bufsp parameter GCSREF
DIAG	copies parameter GCSREF
I/O interrupt (type X'03') <b>DIAG</b>	ddname parameter GCSREF
program interrupt (type X'04') DIAG	description GCSREF
SIO (type X'06') DIAG	ecb parameter GCSREF
SVC interrupt (type X'05') DIAG	eodad parameter GCSREF
GCSIPCS MAP IPCSREF	exist parameter GCSREF
GCSLEVEL macro GCSREF	generate
description GCSREF	an ACB at execution time GCSREF
GCSLOAD EXEC SERV	an exit list at execution time GCSREF
loading from product tape INST	an RPL at execution time GCSREF
modified when building GCS nucleus INST	jrnad parameter GCSREF
GCSNUC MAP IPCSREF	keylen parameter GCSREF
GDDM (Graphical Data Display Manager) INTRO	l parameter GCSREF
to load character sets XEDIT	length parameter GCSREF
GDISPLAY subcommand of IPCSSCAN command	lerad parameter GCSREF
description IPCSREF	macrf parameter GCSREF
example output IPCSREF	marea parameter GCSREF
format IPCSREF	mlen parameter GCSREF
functional category IPCSREF	n parameter GCSREF
messages IPCSREF	nxtrpl parameter GCSREF
operands IPCSREF	optcd parameter GCSREF
response IPCSREF	passwd parameter GCSREF
usage notes IPCSREF	reclen parameter GCSREF
GDS variables	strno parameter GCSREF
error log data	synad parameter GCSREF
deallocate processing SAACOM	warea parameter GCSREF
Send_Error processing SAACOM	GENCB operand notation GCSREF
Set_Log_Data SAACOM	GENDIRT command
GDUMP command DIAG, GCSREF	creating auxiliary directories ADGCMS
description GCSREF	described CMSREF
dss operand GCSREF	general command INTRO

Refer to the foldout page at the back of this book for a chart of abbreviations and their corresponding manuals.

general function type SYSCMD	load map IPCSREF
general I/O DIAG	VSE system ADGCMS
function SFPROG	generic private gateways
options	See private gateways
CHAR DIAG	generic profile checking SECUR
CLOSE DIAG	GENIMAGE
HALT <b>DIAG</b>	command ADMIN
MODIFY DIAG	service program ADMIN
OPEN DIAG	GENMOD command APGDE, DIAG,
START DIAG	PRIMER
STARTR DIAG	ALL option CMSREF
table DIAG	AMODE option CMSREF
general polling characters PLNGDE	CLEAN option CMSREF
figure PLNGDE	definition INTRO
general registers	description ADGCMS, CMSREF
changing GENCMD	description of enhancements CMSMIG
displaying GENCMD	DOS option CMSREF
printing GENCMD	FROM option CMSREF
general resource protection SECUR	generating
general storage area control block IPCSREF	modules ADGCMS
general user	relocatable modules ADGCMS
action on CP errors SYSMSG	transient modules ADGCMS
communicate with VM/SP INTRO	MAP option CMSREF
console usage INTRO	NOCLEAN option CMSREF
described GENCMD, OPGDE	NOMAP option CMSREF
view of spooling INTRO	NOSTR option CMSREF
Generalized Markup Language (GML) INTRO,	OS option CMSREF
PRIMER	restricting a module to a particular mode
tags, description of CMSLOT	ADGCMS
tags, types of	RMODE option CMSREF
heading CMSLOT	saving historic information for a module
highlighting CMSLOT	ADGCMS
list CMSLOT	setting addressing mode ADGCMS,
paragraph CMSLOT	CMSMIG
generate format GCSREF	specifying a residency mode for a module
generating	ADGCMS
a file pool to restore it SFSAD	specifying an addressing mode for a module
accounting records with DIAGNOSE code	ADGCMS
X'4C' SFPROG	STR option CMSREF
and executing modules ADGCMS	SYSTEM option CMSREF
relocatable modules ADGCMS	TO option CMSREF
restricting a module to a particular mode	GENMOD EXEC INTRO
ADGCMS	GENMSG command CMSUG
saving historic information for a module	description CMSREF
ADGCMS	examples CMSREF
specifying a residency mode for a module	format CMSREF
ADGCMS	messages CMSREF
specifying an addressing mode for a module	operands
ADGCMS	applid CMSREF
transient modules ADGCMS	CP CMSREF
CMS abend dumps automatically DIAG	DBCS CMSREF
CMS/DOS ADGCMS	fn ft fm CMSREF
CP in SP mode RGOS	
	langid CMSREF
false AP system for preferred machine assist	LIST CMSREF MARGIN CMSREF
ZUCNI MATANI	IVI AND LILIN LIVE TO BE BUT

NODBCS CMSREF **NOLIST CMSREF** NOOBJECT CMSREF NOXREF CMSREF **OBJECT CMSREF** XREF CMSREF **CMSREF** usage notes CMSREF GENN operand of LABELDEF command **CMSREF** GENSERVE EXEC INTRO format SERV function SERV how it works SERV messages and return codes SERV operands SERV usage notes SERV GENTSAF EXEC CONPAO, INTRO format SERV function SERV generating the RUNTSAF module SERV how it works SERV operands SERV usage notes SERV GENV operand of LABEDLEF command **CMSREF GEN3705 MODULE INST GET XEDITUG** action routine SFPROG command, programmable operator SFPROG in typewriter mode XEDITUG practice exercise using XEDITUG Get a REXX Variable (DMSCGR) general format ADRCMS specifying qualifiers of variable name **ADRCMS** GET command CMSLOT, PRIMER get directory entry request SFSAD get information about passed parameters ADRCMS getting GET macro ADGCMS GET macro (QSAM) GCSREF area address parameter GCSREF dcb address parameter GCSREF data description GCSREF GET macro (VSAM) GCSREF description GCSREF rpl parameter GCSREF Get Special REXX Values general format ADRCMS GET subcommand XEDIT information about CPTRAP with QUERY of PER command GENCMD DIAG

example of XEDIT of XEDIT command APGDE creating small files from large one CMSUG with DBCS strings XEDIT GET subfunction of GLOBALV command Get the Next REXX Variable (DMSCGX) calls that cause search to restart ADRCMS general format ADRCMS specifying qualifiers of variable names **ADRCMS** GET VSCREEN command CMSUG Getmain DIAG via SVC (type X'08') entry DIAG GETMAIN macro GCSREF, RGOS a parameter GCSREF bndry parameter GCSREF conversion considerations CMSMIG description GCSREF ec parameter GCSREF eu parameter GCSREF execute format GCSREF la parameter GCSREF list format GCSREF lv parameter GCSREF mf parameter GCSREF r parameter GCSREF rc parameter GCSREF ru parameter GCSREF sp parameter GCSREF vc parameter GCSREF vu parameter GCSREF GETREQ subcommand SRPI **GETSID** macro DEVICE = operand ADRCMS DEVNAME = operand ADRCMS ERROR = operand ADRCMS See also determining a file XEDIT arguments for a function or routine SPIUG from a program CONGREF from another file PRIMER from the command line SPIUG when you are prompted SPIUG documents, PROFS INTRO help PRIMER

Refer to the foldout page at the back of this book for a chart of abbreviations and their corresponding manuals.

national languages on your system SPPROG	used to identify macro libraries in CMS/DOS
deleting a language SFPROG	ADGCMS
feature tape SFPROG	used to identify TXTLIBs ADGCMS
installing SFPROG	global control block for AVS, displaying
LANGGEN command SFPROG	IPCSREF
LANGMERG command SFPROG	GLOBAL CSLLIB command CMSMIG
loading the files from disk to tape SFPROG	global gateways CONGREF, CONPAO
saving files for CP and CMS SFPROG	activating CONPAO
updating files for an existing language	deactivating CONPAO
SFPROG	example of CONPAO
out of loops SPIUG	general description CONPAO
rid of the WM window PRIMER	inbound connection through (example)
rid of your changes PRIMER	CONPAO
status on AVS CONPAO	outbound connection through (example)
TSAF link information CONPAO	CONPAO
TSAF routing information CONPAO	global resource CMSMIG
GET_ATTRIBUTES, APPC verb	access to CONGREF, CONPAO
mapped with APPC/VM CONGREF	accessibility CONPAO
gigabyte, definition of SFSAD	control statements for CONPAO
GIOTB DIAG	description of CONPAO
GIVE command	identifying CONPAO
described SYSCMD	inbound connection to (example) CONPAO
	IUCV statements for CONPAO
operands	
AS vaddr2 SYSCMD	locally known LU name for CONPAO
NORETURN SYSCMD	LU name qualifier for CONPAO
RETURN SYSCMD	manager programs CONGREF
R/O SYSCMD	name space CONPAO
TO userid SYSCMD	outbound connection to (example) CONPAO
vaddrl SYSCMD	registration CONPAO
responses SYSCMD	resource manager
summary OPGDE, SYSCMD	See resource, manager
syntax diagram, class B SYSCMD	revoking CONPAO
usage notes SYSCMD	sample communications directory entry for
global access checking SECUR	CONPAO
global changes XEDIT, XEDITUG	server virtual machine
in typewriter mode XEDITUG	See server virtual machine
GLOBAL command APGDE, CMSLOT,	setting up server virtual machine CONPAO
GCSREF, PRIMER	target LU name for CONPAO
CSLLIB option CMSREF	GLOBAL storage subpools ADGCMS, CMSMIG
definition INTRO	global system lock
description CMSREF, GCSREF	definition ADMIN, SYSMSG
DOSLIB option CMSREF	global TSAF functions CONPAO
example of use INTRO	global variables, creating CMSREF
for ISPF APGDE	GLOBALV command
identify TXTLIBs ADGCMS	description CMSREF
identifying macro libraries prior to assembly	examples CMSREF
ADGCMS	GET sub-function CMSREF
in CMS/DOS ADGCMS	GRPLIST option CMSREF
in EXECs APGDE	GRPSTACK option CMSREF
loadlib operand GCSREF	INIT option CMSREF
LOADLIB option CMSREF	LIST option CMSREF
MACLIB option CMSREF	PURGE option CMSREF
resolving external references ADGCMS	PUT sub-function CMSREF
TXTLIB option CMSREF	SELECT option CMSREF
used to identify DOSI IRs. ADCCMS	SELECT OPHON CHISKER

STACK option CMSREF Graphical Data Display Manager (GDDM) STACKR option CMSREF **INTRO** use in CMS EXECs CMSREF graphics INTRO devices, monitoring missing interruptions used with REXX language System Product Interpreter EXECs CMSUG **SYSCMD** GLOBALV file type usage in CMS CMSUG color INTRO GML (Generalized Markup Language) INTRO, **GDDM INTRO PRIMER** greater than operator (>) SPIREF, SPIUG greater than or equal operator (> =) SPIREF tags, description of CMSLOT tags, types of greater than or less than operator (> <) SPIREF heading CMSLOT green ink SAACOM highlighting CMSLOT Greg operand list CMSLOT of DISPLAY command GENCMD paragraph CMSLOT of STORE command GENCMD GO command of VS FORTRAN interactive Group Control System (GCS) debug APGDE See GCS (Group Control System) GO option of RETURN command APGDE GROUP EXEC INST GO subcommand GROUP file type use in CMS CMSUG of TESTCOB command APGDE group names of TESTFORT command APGDE assigning to users ADMIN **GOTO** retrieving with DIAGNOSE code X'A0' abnormal **SFPROG** See SIGNAL instruction grouping instructions to execute repetitively considered harmful SPIUG **SPIREF** in SQL APGDE groups of instructions SPIUG GROUPTHRESH start-up parameter SFSAD GPOLL operand of CLUSTER macro PLNGDE group, DO SPIREF GPRLOG (general purpose registers) field DIAG group, virtual machine INTRO, SFPROG gracefully stopping AVS CONPAO GRPLIST option of GLOBALV command **GRAF** operand **CMSREF** of DEFINE command GENCMD GRPSTACK option of GLOBALV command of QUERY command SYSCMD **CMSREF** of QUERY VIRTUAL command GENCMD GR = operandGRAF option of FILEDEF command CMSREF CMSRET macro ADRCMS GRANT ADMIN operator command GSA control block IPCSREF instructions for using SFSAD GT type trap **DIAG** reference information for SFSAD defining DIAG GRANT AUTHORITY command CMSLOT, example DIAG **CMSREF, PRIMER** ID, starting tracing DIAG granting authority CMSUG specifying selectivity DIAG on files and directories CMSLOT, PRIMER GTF header DIAG GRAPHIC data type in SQL GTRACE macro DIAG, GCSREF COBOL APGDE data parameter GCSREF graphic representations for character sets description GCSREF SAACOM execute format GCSREF graphic-hexadecimal substitution TERMREF fid parameter GCSREF for 2741 APL TERMREF id parameter GCSREF for 3270 APL TERMREF list format GCSREF for 3270 text feature TERMREF lng parameter GCSREF

Refer to the foldout page at the back of this book for a chart of abbreviations and their corresponding manuals. mf parameter GCSREF

GTRACE (type X'.0E') entry DIAG guest operating systems GIM, INTRO guest virtual machine (GVM) IPCSREF definition ADMIN, SYSMSG GUESTR option of PER command DIAG, **GENCMD** GUESTV option of PER command DIAG, **GENCMD** guest, dumping considerations RGOS

guidelines and limitations of CMS IUCV SFPROG for using APPC/VM in CMS CONGREF performance ADMIN general information ADMIN GWB operand of GDISPLAY subcommand **IPCSREF** GWBPTRS operand of GDISPLAY subcommand **IPCSREF** G[[REG1] event-type of PER command GENCMD

Н	hardcopy
11	APAR form IPCSREF
HALF function SPIUG	listing of CPTRAP file IPCSREF
	listing of dump IPCSREF
half-duplex communication CONGREF	of display screen TERMREF
	hardware
protocol CONGREF	failure <b>DIAG</b>
HALT command	checklist for reporting DIAG
described SYSCMD	for DASD sharing RGOS
operand	for MVS guest RGOS
raddr SYSCMD	maintenance directory entry
responses SYSCMD	example PLNGDE
summary OPGDE, SYSCMD	status messages OPGDE
syntax diagram, class A SYSCMD	support
HALT condition of SIGNAL instruction SPIREF	virtual machines PLNGDE
halt device	hardware assists ADMIN, GENCMD
monitored in CP internal trace table SYSCMD	See also Extended Control-Program Support
halt execution (HX) in CMS DIAG	description OPGDE
halt interpretation (HI) immediate command	restrictions OPGDE
SPIREF, SPIUG	hardware segment protection SECUR
halting	HASM command to execute Assembler H
See also stopping	INTRO
a looping program SPIREF	HDR1 tape label CMSUG
commands and programs GCSREF	header
execution	card punched by PUNCH command
at instruction address GENCMD	CMSREF
of virtual machine GENCMD	data in SFS monitor records SFSAD
program execution CMSUG	for LISTFILE command CMSREF
screen status CMSUG	format CMSREF
System Product Interpreter EXECs CMSUG	HEADER option
terminal displays CMSUG	of LISTFILE command CMSREF
halt, trapping	of LOCATE subcommand IPCSREF
See SIGNAL instruction	of PUNCH command CMSREF
handler routines, abend	heading tags CMSLOT, PRIMER
See abend (abnormal termination)	headings
handlers	on FILELIST display CMSLOT
clearing	on NOTE display CMSLOT
for external interrupts ADRCMS	on RDRLIST display CMSLOT
for I/O interrupts ADRCMS	HELP XEDITUG
for SVC interrupts ADRCMS	command APGDE, CMSLOT, PRIMER
defining	BRIEF CMSUG
for external interrupts ADRCMS	description CMSREF
for I/O interrupts ADRCMS	DETAIL CMSUG
for SVC interrupts ADRCMS	format CMSREF
interrupts ADGCMS	messages CMSREF
handling	RELATED CMSUG
I/O errors <b>OPGDE</b>	sample requests CMSREF
handshaking	setting defaults CMSREF
control of VM/VS GENCMD	usage notes CMSREF
	display XEDIT, XEDITUG
	display ABDII, ABDII OG

Refer to the foldout page at the back of this book for a chart of abbreviations and their corresponding manuals.

facility	DETAIL CMSREF
components CMSUG	ERRORS CMSREF
description INTRO	EXTEND CMSREF
example INTRO	FORMAT CMSREF
file types CMSUG	HELP CMSREF
keys, PF and PA2 CMSUG	menuname MENU CMSREF
naming conventions CMSUG	MESSAGE message-id CMSREF
tailoring CMSUG	MSG CMSREF
using CMSUG	NOSCREEN CMSREF
using System Product Editor CMSUG	NOTES CMSREF
files	NOTYPE CMSREF
adding CMSUG	OPTIONS CMSREF
altering existing CMSUG	PARMS CMSREF
BRIEF section, adding CMSUG	RELATED CMSREF
changing menus CMSUG	SCREEN CMSREF
converting to a formatted HELP file CMSUG	taskname TASKS CMSREF
converting to upper case INST	TASKS CMSREF
creating a new file CMSUG	other options CMSREF
creating and storing in SFS CMSUG	providing, to explain a program SPIUG
deleting CMSUG	subsetting options CMSREF
DESCRIPT section, adding CMSUG	HELP macro XEDIT
DETAIL section, adding CMSUG	HELP operand
ERRORS section, adding CMSUG	of DEFNUC macro PLNGDE
for messages CMSUG	of IPCSPRT IPCSREF
FORMAT section, adding CMSUG	of IPCSSCAN IPCSREF
HELPMSG file type CMSUG	of PRB command IPCSREF
how to name CMSUG	of STAT command IPCSREF
loading from product tape INST	of TRAPFILE command IPCSREF
national language files, loading INST	HELP panels (ISPF) APGDE
NOTES section, adding CMSUG	HELP PVM IPCSREF
OPTIONS section, adding CMSUG	
PARMS section, adding CMSUG	HELP saved segment PLNGDE
	installing INST
printing CMSUG	location in virtual storage INST HELP subcommand of IPCSPRT command
RELATED section, adding CMSUG	
saving HELP segment INST	description IPCSREF
tailoring XEDIT	example output IPCSREF
updating, considerations when changing	examples IPCSREF
command classes ADMIN	format IPCSREF
format words	functional category IPCSREF
summary CMSUG	message IPCSREF
layering options CMSREF	operands IPCSREF
menus XEDIT	responses IPCSREF
component CMSUG	usage notes IPCSREF
task CMSUG	HELP subcommand of IPCSSCAN command
message CMSUG	description IPCSREF
notational conventions CMSUG	example output IPCSREF
obtaining additional or related information	examples IPCSREF
CMSREF	format IPCSREF
online CONPAO	functional category IPCSREF
operands	messages IPCSREF
ALL CMSREF	operands IPCSREF
BRIEF CMSREF	response IPCSREF
component-name command-name	usage notes IPCSREF
CMSREF	HELPABBR file type usage in CMS CMSUG
DESCRIPT CMSREF	HELPAVS file type usage in CMS CMSUG

HELPCMS file type usage in CMS CMSUG HELPCMSQ file type usage in CMS CMSUG HELPCMSS file type usage in CMS CMSUG HELPCONV command

description CMSREF, CMSUG how it treats comments CMSUG summary of control words CMSUG using to create additional HELP files CMSUG

HELPCP file type usage in CMS CMSUG
HELPCPOT file type usage in CMS CMSUG
HELPCPQU file type usage in CMS CMSUG
HELPCPSE file type usage in CMS CMSUG
HELPEDIT file type usage in CMS CMSUG
HELPEXC2 file type usage in CMS CMSUG
HELPEXEC file type usage in CMS CMSUG
helpful hints, programmable operator SFPROG
HELPGROU file type usage in CMS CMSUG
HELPHELP file type usage in CMS CMSUG
HELPHCS file type usage in CMS CMSUG
HELPMACR file type usage in CMS CMSUG
HELPMACR file type usage in CMS CMSUG
HELPMENU

file type usage in CMS CMSUG files, creating CMSUG

HELPMSG file type usage in CMS CMSUG HELPPREF file type usage in CMS CMSUG HELPPVM file type usage in CMS CMSUG HELPQUER file type usage in CMS CMSUG HELPREXX file type usage in CMS CMSUG HELPROUT file type usage in CMS CMSUG HELPRSCS file type usage in CMS CMSUG HELPSET file type usage in CMS CMSUG HELPSQLD file type usage in CMS CMSUG HELPSRPI file type usage in CMS CMSUG HELPTASK file type usage in CMS CMSUG HELPTASK files, creating CMSUG HELPTASK file type usage in CMS CMSUG HELPTSAF file type usage in CMS CMSUG HELPXEDI file type usage in CMS CMSUG HELPXEDI file type usage in CMS CMSUG HELPXEDI file type usage in CMS CMSUG hex operand

of EXTRACT XEDIT

of IPCSPRT command IPCSREF

of PRINT command CMSREF

of QUERY XEDIT

of SCROLL subcommand IPCSREF

of SET XEDIT

of TRACE subcommand IPCSREF

of TRANSFER XEDIT

of TRAPFILE command IPCSREF

HEX subcommand of IPCSPRT command description IPCSREF example output IPCSREF format IPCSREF functional category IPCSREF messages IPCSREF response IPCSREF usage note IPCSREF

HEX subcommand of IPCSSCAN command description IPCSREF example output IPCSREF format IPCSREF functional category IPCSREF messages IPCSREF response IPCSREF usage notes IPCSREF

## HEXAD IPCSREF

hexadecimal

See also conversion checking with DATATYPE SPIREF codes for character sets SAACOM converting SPIUG data, entering XEDIT display using HEXTYPE XEDIT

using HEXTYPE XEDIT
using SET VERIFY XEDIT
description of SPIUG
printing file in CMSREF
operands, recognizing XEDIT
strings SPIREF

hexdata operand

of STCP command SYSCMD

hexdword1 operand

of STORE command GENCMD

hexdword2 operand

of STORE command GENCMD

hexloc operand

of ADSTOP command GENCMD

of BEGIN command GENCMD

of CORTABLE subcommand IPCSREF

of DISPLAY subcommand IPCSREF

of DISPLAY command GENCMD

of DUMP command GENCMD

of MAPA subcommand IPCSREF

of NETWORK command SYSCMD

of STCP command SYSCMD

of STORE command GENCMD

of VMDUMP command GENCMD

hexloc1 operand	with SET COLOR XEDITUG
of DCP command SYSCMD	with SET CTLCHAR XEDITUG
of DMCP command SYSCMD	with SET RESERVED XEDITUG
hexloc2 operand	phrase tags CMSLOT, PRIMER
of DCP command SYSCMD	words in a file using HELP CMSUG
of DMCP command SYSCMD	3270 terminal display <b>GENCMD</b>
hexloc, variable	HILIGHT operand
described GENCMD, SYSCMD	of TERMINAL command GENCMD
hexloc% operand of DISPLAY subcommand	history files (SNA service) SERV
IPCSREF	history information, saving ADGCMS
HEXTYPE macro XEDIT	HISTORY option of EXECUPDT command
example of XEDIT	CMSREF
hexword operand	HLD function (HNDIUCV macro)
of STCP command SYSCMD	parameter descriptions CONGREF
hexword1 operand	return codes CONGREF
of STORE command GENCMD	HNDEXT macro CMSMIG
hexword2 operand	CLR option ADRCMS
of STORE command GENCMD	CODE = operand ADRCMS
HFGD	creating a default handler ADGCMS
coding RDEVICE macro PLNGDE	deleting a handler ADGCMS
HI (halt interpretation) immediate command	DUMMY operand ADRCMS
CMSUG, SPIREF, SPIUG	ECB = operand ADRCMS
HIDE WINDOW command CMSUG	ERROR = operand ADRCMS
description CMSREF	handling specific interrupts, examples
format CMSREF	ADGCMS
messages CMSREF	KEEP = operand ADRCMS
operands	overview ADGCMS
col CMSREF	SET option ADRCMS
line CMSREF	SYSTEM = operand ADRCMS
vname CMSREF	UWORD = operand ADRCMS
wname CMSREF	HNDINT macro CMSMIG
usage notes CMSREF	ASAP option ADRCMS
hiding	CLR option ADRCMS
a window CMSREF	ERROR = operand ADRCMS
your password <b>GENCMD</b>	handling I/O interrupts ADRCMS
hierarchy CMSLOT, PRIMER	SET option ADRCMS
page migration	WAIT option ADRCMS
establishing ADMIN	HNDIO macro CMSMIG
paging ADMIN	CLR option ADRCMS
High Performance Option, VM/SP	CLRLIST = operand ADRCMS
See VM/SP HPO (High Performance Option)	defining handlers
high-level language programming interface	considerations ADGCMS
CPI Communications CMSMIG	conventions ADGCMS
to APPC/VM CMSMIG	examples ADGCMS
high-level programming languages CONGREF	deleting an I/O interrupt handler ADGCMS
high-priority messages	DEVICE = operand ADRCMS
transmitting SYSCMD	DEVNAME = operand ADRCMS
high-speed buffer	entry and exit linkage ADGCMS
definition ADMIN, SYSMSG	ERROR = operand ADRCMS
high-water mark ADMIN	EXIT = operand ADRCMS
highlighting PRIMER	INTBLOK = operand ADRCMS
defining	KEEP = operand ADRCMS
SCREEN directory control statement	NOTIFY = operand ADRCMS
PLNGDE	1

overview ADGCMS SET option ADRCMS SYSTEM = operand ADRCMS UWORD = operand ADRCMS HNDIUCV macro ADRCMS, CMSMIG, **SFPROG** CLR (clear) function CONGREF format SFPROG HLD (hold) function CONGREF optional parameters SFPROG REP (replace) function CONGREF required parameters SFPROG RES (resume) function CONGREF return codes SFPROG SET function CONGREF HNDSVC macro CMSMIG CLR option ADRCMS creating an SVC interrupt handler ADGCMS deleting an SVC interrupt handler ADGCMS entry and exit linkage ADGCMS ERROR = operand ADRCMS KEEP = operand ADRCMS SET option ADRCMS SYSTEM = operand ADRCMS UWORD = operand ADRCMS **HOLD** command described SYSCMD operands ALL SYSCMD PRINTER SYSCMD PUNCH SYSCMD userid SYSCMD operator use INTRO responses SYSCMD summary OPGDE, SYSCMD syntax diagram, class D SYSCMD usage notes SYSCMD hold function See HLD function (HNDIUCV macro) **HOLD** operand of CHANGE command GENCMD. **SYSCMD** of CLOSE command GENCMD of DISCONN command GENCMD of FLUSH command SYSCMD

of LOGOFF command CMSLOT, **GENCMD** of QUERY command GENCMD, **SYSCMD** of REPEAT command SYSCMD of SPOOL command CMSUG, **GENCMD** hold output files SYSCMD holding display on terminal CMSUG file before output processing GENCMD files by user hold status GENCMD files from further processing GENCMD spool file to keep them from being processed **CMSUG** HOLDING screen status APGDE, CMSUG, PRIMER horizontal screens, multiple XEDITUG host commands SPIREF data base access INTRO VM system, preparing for VM under VM RGOS VSE RGOS HOSTCHK statement SFPROG See also programmable operator facility hours calculated from midnight SPIREF how CP broadcasts a directory request to the collection SFPROG to enter commands PRIMER to find the machine ID DIAG to define virtual 3088 support PLNGDE to define virtual 3088 support, command use **PLNGDE** to start debugging DIAG TSAF answers CP through \*CRM SFPROG TSAF requests local directory information **SFPROG** 

\*CRM processes requests for directory information SFPROG

HSVCSAVE macro ADGCMS, ADRCMS HT (halt type) immediate command CMSUG SET CMSTYPE HT command SPIUG

HX subcommand of IPCSPRT command description IPCSREF example output IPCSREF format IPCSREF functional category IPCSREF messages IPCSREF response IPCSREF usage notes IPCSREF HX subcommand of IPCSSCAN command description IPCSREF example output IPCSREF format IPCSREF functional category IPCSREF

messages IPCSREF response IPCSREF usage notes IPCSREF HX (halt execution) immediate command **GCSREF** effect on DLBL definitions CMSREF effect on FILEDEF definitions CMSREF stopping server with SFSAD description GCSREF effect in CMS subset CMSUG effect on DLBL definitions ADGCMS h, variable described GENCMD, SYSCMD

\*IDENT (Identify System Service) CONPAO,

**SFPROG** authorizing virtual machine to connect to I prefix subcommand of XEDIT command APGDE, CONGREF connect format CONGREF IB operand connecting to of QUERY command SYSCMD \*IDENT CONPAO of SET command SYSCMD identifying gateways CONPAO IBCDASDI SFPROG identifying resources CONPAO IBM BASIC INTRO local system resource table CONGREF IBM ECF macros multiple connections to CONPAO ADDENTRY SRPI responsibilities CONGREF CPRB SRPI SEND format CONGREF CSMRETCD (return code) SRPI sever reason codes CONGREF **DELENTRY SRPI** severing connection to CONGREF SENDREO SRPI identical files, testing for CMSLOT syntax SRPI identification bits for licensed programs IBM ECF return code macro **SFPROG** description (CSMRETCD) SRPI identification numbers, message IBM operand displaying SYSMSG of SPECIAL directory control statement identifier of AUTOSAVE files PRIMER of PRB command IPCSREF file INTRO IBM PC See also file identifier See Personal Computer (PC) **IDENTIFY** IBM Personal Computer Enhanced Connectivity VMCF function SFPROG Facilities ADGCMS, ADRCMS, VMCF protocol SFPROG APGDE, CMSMIG, GIM IDENTIFY command CMSLOT, PRIMER IBM Professional Office System (PROFS) GIM description CMSREF IBM System/370 to IBM Personal Computer display user information CMSREF Enhanced Connectivity Facilities ADRCMS FIFO option CMSREF building CPRB DSECT ADRCMS LIFO option CMSREF entry name dropped from Communications STACK option CMSREF Module termination notification TYPE option CMSREF list ADRCMS IDENTIFY macro GCSREF making service requests ADRCMS description GCSREF return codes, defining names for ADRCMS entry parameter GCSREF IBM-defined user classes ep parameter GCSREF reverting to ADMIN eploc parameter GCSREF IBM-supplied VMSYSU file pool CMSUG **IDENTIFY** subcommand of IPCSSCAN IBMABASE (assembler server example) SRPI command IBUFF operand description IPCSREF of QUERY command SYSCMD example outputs IPCSREF of SET command SYSCMD format IPCSREF ICA (Integrated Communications Attachment) functional category IPCSREF coding RDEVICE macro PLNGDE messages IPCSREF ICS control statement CMSREF response IPCSREF ID card to submit job to CMS batch facility usage notes IPCSREF **CMSUG** Identify System Service (\*IDENT)

Refer to the foldout page at the back of this book for a chart of abbreviations and their corresponding manuals. See \*IDENT (Identify System Service)

IDENTIFYed entry point IPCSREF	IJSYSUC defined CMSREF
identifying	in CMS/DOS CMSREF
See also defining	IMAGE operand
macro libraries ADGCMS	of EXTRACT XEDIT
macro libraries to search in CMS/DOS	of QUERY XEDIT
ADGCMS	of RDEVICE macro PLNGDE
master catalog for VSAM in CMS/DOS	of SET XEDIT
ADGCMS	of START command SYSCMD
multivolume VSAM files	of TRANSFER XEDIT
in CMS/DOS ADGCMS	image symbol editor for GDDM INTRO
in OS ADGCMS	IMAGELIB service program
resource name in connection request	description ADMIN
CONPAO	imagelib, variable
the problem DIAG	described GENCMD, SYSCMD
users SPIREF	IMAGEMOD command
VSAM master catalog in OS ADGCMS	format and description ADMIN
Identify_Resource_Manager (XCIDRM) routine	modifying 3800 named system ADMIN
CONGREF	imag, variable
IEBPTPCH utility program to create CMS files	described GENCMD, SYSCMD
from tapes created by CMSUG	IMMBLOK macro ADRCMS
IEBUPDTE utility program to create CMS files	IMMCMD command
from tapes created for CMSUG	CLEAR operand CMSREF
IEHMOVE utility program	description CMSREF
to create CMS files from tapes created by	QUERY operand CMSREF
CMSUG	SET operand CMSREF
IF command APGDE	STATUS operand CMSREF
IF instruction SPIREF	IMMCMD operand of NUCXLOAD
description of SPIUG	command CMSREF
ELSE keyword SPIUG	IMMCMD macro
THEN keyword SPIUG	CLR option ADRCMS
IF-REQ statement, update file SERV	creating immediate commands ADGCMS
IF subcommand	deleting immediate commands ADGCMS
of TESTCOB command APGDE	ERROR = operand ADRCMS
of TESTFORT command APGDE	EXIT = operand ADRCMS
IGN option of ASSGN command CMSREF	NAME = operand ADRCMS
with DUMMY data sets CMSREF	QRY option ADRCMS
ignoring	querying immediate commands ADGCMS
case difference CMSLOT, XEDIT	SET option ADRCMS
characters in a target <b>XEDIT</b>	UWORD = operand ADRCMS
IHASDWA macro GCSREF	IMMCMD = operand
description GCSREF	NUCEXT SET ADRCMS
dsect parameter GCSREF	IMMED operand
IIP (ISAM Interface Program) ADGCMS	of NETWORK command SYSCMD
IJSYSCL ddname defined in CMS/DOS	IMMED value on APPCVM CONNECT
ADGCMS	CONGREF
IJSYSCL defining in CMS/DOS CMSREF	immediate commands
IJSYSCT ddname ADGCMS	canceling CMSREF
IJSYSCT defined CMSREF	clearing ADRCMS
in CMS/DOS CMSREF	creating ADGCMS, CMSREF
IJSYSRL ddname defined in CMS/DOS	declaring ADRCMS
ADGCMS	definition of ADGCMS
IJSYSRL defining in CMS/DOS CMSREF	deleting ADGCMS
IJSYSSL ddname defined in CMS/DOS ADGCMS	entering on display terminal CMSUG
IJSYSSL defining in CMS/DOS CMSREF	HI (halt interpretation) SPIREF
	in CMS SFPROG

in GCS GCSREF querying ADGCMS, ADRCMS summary CMSREF TE (trace end) SPIREF TS (trace start) SPIREF using with System Product Interpreter programs CMSUG immediately stopping AVS CONPAO **IMPCMSCP** option of EXTRACT XEDIT of QUERY XEDIT of SET XEDIT of TRANSFER XEDIT IMPCP operand of CMS SET command, setting CMSUG imperative macros ADGCMS, ADRCMS IMPEX operand of CMS SET command, usage CMSUG implementation details SPIREF implementation team, security SECUR implicit locks CMSUG, INTRO implicit read authority SFSAD implicit write authority SFSAD implied affinity, definition ADMIN, SYSMSG CP function, SET IMPCP, usage CMSUG EXEC function, SET IMPEX, usage **CMSUG** semicolons SPIREF transmission to CMS/CP XEDIT IMPORT access method services function **ADGCMS** importing VSAM data sets ADGCMS imprecise numeric comparison SPIREF improving performance of AVS CONPAO IMSG operand of SET command GENCMD IMS/VS SAACOM IN predicate of SQL APGDE in-queue virtual machines ADMIN definition SYSMSG in-store execution of EXECs SPIREF INArea operand of SCREEN command GENCMD inbound communications activating CONPAO deactivating CONPAO through dedicated private gateway (example) **CONPAO** 

through global gateway (example) CONPAO through non-dedicated private gateway (example) CONPAO to global resource (example) CONPAO to private resource (example) CONPAO INCLUDE command APGDE AUTO option CMSREF CLEAR option CMSREF defined INTRO description CMSREF determining where programs are loaded **CMSMIG DUP option CMSREF** examples CMSREF following LOAD command CMSREF HIST option CMSREF identify TXTLIBs to be searched CMSREF INV option CMSREF LIBE option CMSREF MAP option CMSREF NOAUTO option CMSREF NOCLEAR option CMSREF NODUP option CMSREF NOHIST option CMSREF NOINV option CMSREF NOLIBE option CMSREF NOMAP option CMSREF NOREP option CMSREF NOTYPE option CMSREF ORIGIN option CMSREF REP option CMSREF RESET option CMSREF resolving external references ADGCMS RLDSAVE option CMSREF SAME option CMSREF saving relocation information CMSMIG START option CMSREF TYPE option CMSREF VSE linkage editor control statement, specifying in ADGCMS Include Control Section (ICS) loader control statement ADGCMS, CMSREF INCLUDE directory control statement PLNGDE operand PLNGDE profilename PLNGDE **INCLUDE** operand of MONITOR command SYSCMD

Refer to the foldout page at the back of this book for a chart of abbreviations and their corresponding manuals. INCLUDE SQLCA command of SQL APGDE

USER userid SYSCMD
USER * SYSCMD
responses GENCMD, SYSCMD
summary OPGDE, SYSCMD
syntax diagrams, class A SYSCMD
syntax diagram, class E SYSCMD
usage notes GENCMD
INDICATE LOAD command
responses GENCMD
INDICATE USER command APGDE, OPGDE
responses GENCMD
indicating
program execution (BLIP) TERMREF
resource name in connection request CONPAO
indicator data in Extract/Replace ADRCMS
indicators of system load ADMIN
indirect evaluation of data SPIREF
inequality, testing of SPIREF
INF FAILURE code (keyword definition)
IPCSREF
INF operand of STAT command IPCSREF
INFILE operand of CPTRAP command DIAG
infinite loops APGDE, DIAG, SPIREF
See also looping program
checklist for reporting in a virtual machine
DIAG
checklist for reporting in CP DIAG
information
abbreviated SPIUG
message display XEDITUG
in typewriter mode XEDITUG
names for Extract/Replace function ADRCMS
sources that describe VM's condition DIAG
Information Protection System for CMS SECUR
informational messages
controlling receipt GENCMD
inhibiting
See also stopping
commands with TRACE instruction SPIREF
INIT command RGOS
INIT option
of GLOBALV command CMSREF
INIT statement in ISPF panels APGDE
INITDISK SFPROG
initial installation procedure INST
initial program load (IPL) TERMREF
See IPL (initial program load)
initial setting of PF keys XEDIT, XEDITUG
initial tabs, displaying <b>PRIMER</b>
initialization
accounting record CONPAO, SFSAD
attached processor system <b>OPGDE</b>
disk ADMIN
mass storage system (MSS) OPGDE

USER command ADMIN

messages OPGDE INPUT command PRIMER multiprocessor system of ISQL APGDE to add text from edit mode CMSLOT messages OPGDE of arrays SPIREF to enter input mode CMSLOT of compound variables SPIREF INPUT control statement of DDR (DASD Dump Restore) program parameters ADMIN, SFPROG See start-up parameters system **OPGDE** INPUT ddname SFSAD input inhibited light PRIMER initialize conversation SAACOM INPUT line XEDITUG input mode APGDE, XEDITUG state SAACOM Initialize Conversation (CMINIT) routine entered using INPUT XEDIT **CONGREF** entered using REPLACE XEDIT entering subcommand in XEDIT call description SAACOM example flow using SAACOM entering using INPUT CMSLOT, PRIMER getting out of CMSLOT, PRIMER initializing a file pool SFSAD on display terminal in line-mode CMSUG on typewriter terminal XEDITUG CMS INTRO CMS from a SNA terminal GCSREF screen layout in PRIMER, XEDIT using PF keys in XEDIT DASD volumes RGOS when in full-screen XEDIT environment file pool minidisks SFSAD **CMSUG** servers assembler SRPI using escape character in XEDIT REXX and EXEC 2 (SRPI macro) SRPI INPUT option in SET CMSLOT input spool file manipulation with DIAGNOSE the programmable operator SFPROG code X'14' SFPROG INITIATE, logical device support facility function INPUT subcommand of XEDIT command **SFPROG** initiating APGDE, XEDIT GCS dumps DIAG used to enter data in XEDIT CMSUG with DBCS strings XEDIT Pass-Through sessions INTRO VM/SP HPO operation OPGDE input zone PRIMER, XEDITUG INMOVE default for MOVEFILE command area of screen XEDIT ddname CMSREF changing size XEDIT, XEDITUG INPMOD option of EXTRACT XEDIT INPUTCTL ddname SFSAD input input/output (I/O) See I/O (input/output) area TERMREF buffer, terminal INTRO Input/Output Configuration Program (IOCP) card to Format/Allocate program ADMIN, See IOCP (Input/Output Configuration Program) inqueue time, average spent in console to Format/Allocate program ADMIN, compared with early releases ADMIN **SFPROG** INRedisp operand device INTRO of SCREEN command GENCMD files, altering external attributes SYSCMD INS MODE key APGDE INSERT command of SQL APGDE practice exercise using XEDITUG spooled card OPGDE INSERT function SPIREF to enter input mode XEDITUG insert mode key in XEDIT PRIMER, XEDITUG on typewriter terminal XEDITUG practice exercise using XEDITUG to enter line in typewriter mode XEDITUG using in power typing XEDIT

using with SET NULLS ON XEDIT

Refer to the foldout page at the back of this book for a chart of abbreviations and their corresponding manuals.

insert mode, leaving PRIMER	pre-installation requirements INST
INSERT statement ADGCMS	reference worksheet INST
INSERT statement of SQL APGDE	second level, definition INST
inserting	starter system procedure INST
a blank line XEDITUG	tools INST
a file	types INST
in typewriter mode XEDITUG	Installation Verification Procedure (IVP)
part of XEDITUG	See IVP (Installation Verification Procedure)
part of, example of XEDITUG	installing
a whole file XEDITUG	a file pool SFSAD
example of <b>XEDITUG</b>	a server
using GET CMSLOT	assembler SRPI
a string into another SPIREF	SRPI macro (REXX and EXEC 2) SRPI
characters	AVS CONPAO
in input mode XEDITUG	EREP INST
in power typing mode XEDITUG	HELP saved segments INST
using CINSERT XEDIT, XEDITUG	logical saved segments INST
using CINSERT in typewriter mode	national languages on VM SFPROG
XEDITUG	physical saved segments INST
using PA2 key XEDIT, XEDITUG	PMX SFPROG
using SET NULLS XEDITUG	programmable operator SFPROG
using SET NULLS ON XEDIT	saved segments INST
using the insert mode key XEDITUG	system national language INST
data from another file CMSLOT, PRIMER,	Transparent Services Access Facility (TSAF)
XEDITUG	PLNGDE
in typewriter mode XEDITUG	VM/IS INTRO
data into a file	VM/IS INTRO VM/SP INST
	•
using GET XEDIT	basic processes INTRO
using PUT XEDIT	starter system INTRO INSTFPP EXEC INST
using PUTD XEDIT	
data using CINSERT XEDITUG	INSTID operand
in typewriter mode XEDITUG	of DEFNUC macro PLNGDE
lines	INSTR (keyword definition) IPCSREF
using I (prefix subcommand) XEDIT	INSTRUCT event type
using PUT XEDIT	of PER command GENCMD
using PUTD XEDIT	INSTRUCT operand
in a file being edited CMSUG	of TRACE command GENCMD
using INPUT XEDITUG	instructions
using INPUT in typewriter mode XEDITUG	See also DIAGNOSE instruction
one line using INPUT XEDIT	ADDRESS SPIREF, SPIUG
part of a file	altering
using GET CMSLOT, XEDIT	with LOAD command CMSREF
using GET and PUT CMSLOT	ARG SPIREF, SPIUG
using PUT XEDIT	assembler
using PUTD XEDIT	See assembler instructions
words	CALL SPIREF, SPIUG
in a line CMSLOT, PRIMER	description of SPIUG
using CINSERT XEDITUG	DO SPIREF, SPIUG
using CINSERT in typewriter mode	DO FOREVER SPIUG
XEDITUG	DO WHILE SPIUG
installation	DROP SPIREF, SPIUG
existing VM system procedure INST	executing without nucleus protection
first level, definition INST	ADRCMS
organizing your materials INST	EXIT SPIREF, SPIUG
planning INST	groups of SPIUG

IF SPIREF, SPIUG INTERPRET SPIREF, SPIUG comparison of System/370 to 370-XA **CMSMIG** conversion considerations CMSMIG ITERATE SPIREF, SPIUG LEAVE SPIREF, SPIUG macro INTRO NOP SPIREF, SPIUG NUMERIC SPIREF NUMERIC DIGITS SPIUG NUMERIC FUZZ SPIUG **OPTIONS SPIREF** PARSE SPIREF PARSE ARG SPIUG PARSE PULL SPIUG PARSE VALUE SPIUG PARSE VAR SPIUG privileged ADGCMS PROCEDURE SPIREF, SPIUG PULL SPIREF, SPIUG PUSH SPIREF, SPIUG QUEUE SPIREF, SPIUG RETURN SPIREF, SPIUG SAY SPIREF, SPIUG SELECT SPIREF, SPIUG SIGNAL SPIREF, SPIUG TRACE SPIREF, SPIUG tracing vector ADMIN, APGDE UPPER SPIREF, SPIUG INSTSEG operand of DEFNUC macro PLNGDE INSTSIM class monitor records ADMIN INSTSIM operand of MONITOR command SYSCMD INTBLOK macro ADGCMS, ADRCMS INTBLOK = operandHNDIO macro ADRCMS integer SPIUG arithmetic SPIREF division definition SPIREF description of SPIREF operator SPIREF, SPIUG values SAACOM INTEGER data type in SQL COBOL APGDE

Integrated Communications Attachment (ICA) coding RDEVICE macro PLNGDE Integrated System (VM/IS) INTRO integrity data INTRO data, during editor session INTRO power failure INTRO SQL database INTRO system, when changing command access **ADMIN** Inter-User Communications Vehicle (IUCV) See IUCV (Inter-User Communications Vehicle) interactive applications APGDE bias shift queue 1 virtual machine SYSCMD buffer controlling amount of pageable storage used for ADMIN pageable storage SYSCMD definition ADMIN, SYSMSG menus INTRO mode of BASIC PRIMER swap queue time controls SYSCMD users maximum percentage of pageable storage set **SYSCMD** interactive debug APGDE, SPIREF See also TRACE instruction COBOL APGDE debug file APGDE FORTRAN APGDE VS FORTRAN APGDE interactive interface PF key overrides RGOS using with CMS RGOS Interactive Problem Control System (IPCS) See IPCS (Interactive Problem Control System) Interactive Productivity Facility (IPF) INTRO Interactive SQL (ISQL) INTRO Interactive System Productivity Facility (ISPF) APGDE, INTRO breakpoints APGDE browse option APGDE commands APGDE ISPSTART APGDE PRINT APGDE

Refer to the foldout page at the back of this book for a chart of abbreviations and their corresponding manuals.

FORTRAN APGDE

PRINT-HI APGDE

dialog test option APGDE	communications
dialog testing APGDE	See CPI (Common Programming Interface)
dialogs APGDE	Communications
error handling APGDE	definition table SAACOM
ERRORS setting APGDE	error, CP/virtual machine DIAG
EXECs and APGDE	files, IPCS IPCSREF
file tailoring	GCS (Group Control System) GCSREF
output libraries APGDE	high-level language to APPC/VM CMSMIG
services APGDE	procedures language (REXX) to APPC/VM
skeletons APGDE	CMSMIG
function trace option APGDE	shared VTAM GCSREF
functions APGDE	system SPIREF
functions option APGDE	to external routines SPIREF
HELP panels APGDE	to variables SPIREF
invoking APGDE	internal
ISPEXEC APGDE	
libraries APGDE	CP functions, changing privilege classes ADMIN
LOADLIBS APGDE	directories APGDE
log option APGDE	functions
message definition APGDE	description of SPIREF
message libraries APGDE	return from SPIREF
messages APGDE	variables in SPIREF
panel	I/O buffer ADGCMS
libraries APGDE	print file duplication
option APGDE	3800 printer GENCMD
services APGDE	functions SPIUG
panels APGDE	invoking SPIREF
PDF APGDE	subroutines SPIUG
libraries APGDE	trace table
prototyping applications APGDE	CP DIAG
requirements using APGDE	CP, obtaining a copy of <b>DIAG</b>
SELECT service APGDE	GCS DIAG
services APGDE	TSAF DIAG
skeleton libraries APGDE	tracing
skeletons APGDE	AVS CONPAO
table	displaying setting CONPAO
input libraries APGDE	during AVS application initialization
output libraries APGDE	CONPAO
services APGDE	facilities, GCS DIAG
tables APGDE	setting CONPAO
tables option APGDE	INTERPRET instruction SPIREF, SPIUG
traces option APGDE	interpreter SPIUG
TXTLIBs APGDE	See also System Product Interpreter
variable services APGDE	interpreting
variable trace option APGDE	command formats <b>PRIMER</b>
variables option APGDE	executable statements <b>EXEC2</b>
interactive, defined INTRO, TERMREF	interpretive execution of data SPIREF
interfaces	interrupt GENCMD
assembler language to APPC/VM CMSMIG	APPC CONGREF
CMS programming	clearing from a virtual machine GENCMD
See CMS (Conversational Monitor System)	connection complete CONGREF
programming interface	connection pending CONGREF
	control blocks DIAG

disabling for CONGREF overview ADGCMS enabling for CONGREF simulated SYSCMD external machine check interrupts default external interrupt handlers monitored SYSCMD **ADRCMS** overview ADGCMS functions controlling SFPROG manipulating the PSW mask ADGCMS handling ADRCMS program interrupts ADGCMS external IUCV SFPROG **SVC** interrupts avoiding SFPROG creating an SVC interrupt handler ADGCMS control SFPROG deleting an SVC interrupt handler ADGCMS enabling or disabling SFPROG entry and exit linkage ADGCMS message SFPROG monitored SYSCMD function complete CONGREF unstack I/O handler, missing ADMIN monitored in CP internal trace table in APPC/VM CONGREF **SYSCMD** interrupting program execution CMSUG, SPIREF I/O handling ADRCMS mask, manipulating ADRCMS INTERVAL operand message pending CONGREF of MONITOR command SYSCMD range of external codes GENCMD interval timer ADMIN, RGOS signaling on display terminal CMSUG See also Diagnosis Reference simulating assist part of ECPS OPGDE attention GENCMD at initialization **OPGDE** external **GENCMD** described OPGDE specifying virtual device-end GENCMD processor timer tracing **GENCMD** See Diagnosis Reference SENDREO CONGREF interval values SEVER CONGREF MIH (missing interrupt handler) SVC handling ADRCMS default ADMIN interrupt handling ADGCMS, CMSMIG determining ADMIN See also Diagnosis Reference missing interrupt console interrupts ADGCMS changing ADMIN INTMC (machine check interrupt code) DIAG external interrupts CMS default external interrupt handler INTO statement of SQL APGDE **ADGCMS** INTPR (program interrupt code) DIAG creating a default handler ADGCMS introduction EXEC2, SFSAD, SYSMSG deleting a handler ADGCMS to debugging DIAG enabling and disabling ADGCMS to GCS GCSREF entry and exit linkage ADGCMS to operational control of the system **OPGDE** handling specific interrupts, examples to running **ADGCMS** MVS under VM/SP HPO RGOS monitored SYSCMD VM under VM RGOS overview ADGCMS VSE under VM RGOS types of ADGCMS to the VM/SP HPO control program program I/O interrupts DIAG, SYSCMD states See also Diagnosis Reference see Diagnosis Reference defining handlers, considerations ADGCMS to XEDIT CMSLOT, PRIMER defining handlers, conventions ADGCMS INTSVC (SVC interrupt code) DIAG defining handlers, examples ADGCMS INTTYPE = operand deleting an I/O interrupt handler ADGCMS NUCEXT SET ADRCMS entry and exit linkage ADGCMS SUBCOM SET ADRCMS

INV option	devices
of INCLUDE command CMSREF	assignments in CMS/DOS ADGCMS
of LOAD command CMSREF	defining for virtual machine GENCMD
invalid log on passwords SECUR	handling interrupts for ADRCMS
investigating	monitor considerations ADMIN
migration problems ADMIN	DIAGNOSE X'A4' ADGCMS, CMSMIG
invocation of formatter, by IPCS IPCSREF	DIAGNOSE X'A8' ADGCMS, CMSMIG
invoking	disk file I/O ADGCMS
a compiler PRIMER	errors
a program PRIMER	handling <b>OPGDE</b>
a REXX EXEC ADRCMS	recording with CPEREP program OPGDE
an EXEC PRIMER	recovery from ADMIN
AVS CONPAO	for SFS files ADGCMS
built-in functions SPIREF	function
DDR (DASD DUMP/Restore)	DASD SFPROG
as a stand-alone program ADMIN,	general SFPROG
SFPROG	hardware protection SECUR
under CMS ADMIN, SFPROG	instructions
IUCV functions SFPROG	comparison of System/370 to 370-XA
programmable operator facility SFPROG	CMSMIG
automatically SFPROG	conversion considerations CMSMIG
commands SFPROG	interrupt (type X'03') entry <b>DIAG</b>
manually SFPROG	interrupts
routines SPIREF	See I/O (input/output) interrupts
System Product Editor CMSUG	listing assignments ADGCMS
System Product Interpreter EXECs CMSUG	macros ADGCMS, ADRCMS
the CMS batch facility <b>OPGDE</b>	management, virtual machine
the editor XEDITUG	See Diagnosis Reference
in typewriter mode XEDITUG	minidisk ADMIN
VMCF functions SFPROG	overhead in CP, reducing ADMIN
I/O (input/output)	overview of CMS I/O support ADGCMS,
activity	CMSMIG
collecting <b>DIAG</b>	preferred interface
recording <b>DIAG</b>	I/O macros ADGCMS
recording, example <b>DIAG</b>	support CMSMIG
assembler language I/O instructions	queued channel <b>DIAG</b>
ADGCMS	reduction, VTAM SFPROG
assignments ADGCMS	SFS directory ADGCMS
buffer	storing the subchannel ID in register 1
reading lines to ADRCMS	ADGCMS
reading records to ADRCMS	System/370 instructions CMSMIG
writing records from ADRCMS	tape ADGCMS
console I/O ADGCMS	tape I/O ADGCMS
displaying messages at your terminal	tapes ADGCMS
ADGCMS	unit record I/O ADGCMS
full screen I/O ADGCMS	virtual machines ADMIN
reading lines from a terminal ADGCMS	VM SNA support
retrieving messages from a buffer ADGCMS	processing SFPROG
writing lines from a terminal ADGCMS	370-XA instructions CMSMIG
debugging DIAG	4-digit device addresses CMSMIG
defining VSAM files ADGCMS	T-digit device addresses Cividivity
definition statements for DDR (DASD Dump	
Restore) program ADMIN, SFPROG	
Restore) program ADMIN, SFFROG	

I/O (input/output) interrupts CMSMIG See also Diagnosis Reference defining handlers considerations ADGCMS conventions ADGCMS examples ADGCMS deleting an I/O interrupt handler ADGCMS entry and exit linkage ADGCMS handling ADRCMS, DIAG overview ADGCMS monitored in CP internal trace table SYSCMD program interrupts See Diagnosis Reference IO type entries in the CPTRAP file DIAG IOBLOK unstack monitored in CP internal trace table SYSCMD IOCP (Input/Output Configuration Program) considerations for coding the source file **PLNGDE** defining to the processor ADMIN four-path configuration example ADMIN two-path configuration example ADMIN **IOSAVE DIAG** IOSECT (I/O interrupt work area) DIAG IPARML DSECT CONGREF **IPAUDIT CONGREF IPCODE CONGREF** IPCS IPCSPRT subcommands summary IPCSREF IPCS IPCSSCAN subcommands summary **IPCSREF** IPCS (Interactive Problem Control System) CMSREF, CONPAO, DIAG, GIM, TERMREF commands See IPCS (Interactive Problem Control System) commands completing CUSTOMER PROFILE INST control file (DMMSP CNTRL) SERV data files customer profile IPCSREF IPCS load map IPCSREF PRBnnnnn aaaaaaaa IPCSREF PRBnnnn dump IPCSREF PRBnnnn report IPCSREF statall local IPCSREF summary record IPCSREF SYMPTOM SUMMARY IPCSREF TRPnnnnn CPTRAP IPCSREF data flow (CPTRAP data) IPCSREF

definition ADMIN, SYSMSG description INTRO dumps DIAG error messages SYSMSG for GCS DIAG functional overview IPCSREF general description INST interface files IPCSREF introduction IPCSREF invocation of formatter IPCSREF IPCSPRT subcommands summary IPCSREF IPCSSCAN subcommands summary **IPCSREF** IPCSSCAN to view AVS data DIAG line writer interface IPCSREF load maps DIAG loading object code from product tape INST major functions problem and data management IPCSREF problem diagnosis IPCSREF problem reporting IPCSREF module interfaces IPCSREF IPCS line writer interface IPCSREF IPCS trace entry formatter interface **IPCSREF** IPCSSCAN scroll interface IPCSREF time zone adjustment IPCSREF obtaining a GCS IPCS map DIAG output build routine interface IPCSREF problem number IPCSREF problem number assignment IPCSREF publications TERMREF return codes SYSMSG symptom records DIAG to collect AVS data DIAG trace entry formatter interface IPCSREF usage AVS load map IPCSREF CMS load map (CMSNUC MAP) **IPCSREF** completing customer profile IPCSREF conversion considerations IPCSREF CONVERT command IPCSREF CONVIPCS EXEC IPCSREF CP load map (CPNUC MAP) IPCSREF debugging a dump or CPTRAP file **IPCSREF** 

Refer to the foldout page at the back of this book for a chart of abbreviations and their corresponding manuals.

data flow (non-CPTRAP data) IPCSREF

dumping CPTRAP files to tape IPCSREF

file mode A space management IPCSREF

GCS load map (GCSNUC MAP) FDISPLAY subcommand IPCSREF **IPCSREF** FORMAT subcommand IPCSREF G subcommand IPCSREF generating load map IPCSREF generating problem report IPCSREF GDISPLAY subcommand IPCSREF hardcopy of APAR IPCSREF HELP subcommand IPCSREF hardcopy of dump or CPTRAP file IPCSREF HEX subcommand IPCSREF HX subcommand IPCSREF IPCS load map IPCSREF **IDENTIFY** subcommand **IPCSREF** operating procedures IPCSREF other load maps IPCSREF IPCSMAP subcommand IPCSREF **IUCV** subcommand **IPCSREF** preliminary considerations IPCSREF LOCATE (UP) subcommand IPCSREF recognizing duplicate problems IPCSREF LUNAME subcommand IPCSREF SFS load map IPCSREF supplementary data IPCSREF MAPA subcommand IPCSREF time stamp IPCSREF MAPN subcommand IPCSREF MREGS subcommand IPCSREF TSAF load map (TSAF MAP) IPCSREF typical operating sequence IPCSREF MRIOBLOK subcommand IPCSREF OSPOINT subcommand IPCSREF updating problem report IPCSREF variables PRINT subcommand IPCSREF FEDFEXSW IPCSREF **QUIT subcommand IPCSREF** HEXAD IPCSREF REGS subcommand IPCSREF PRINTONE IPCSREF REUSE subcommand IPCSREF REUSEAD IPCSREF RIOBLOK subcommand IPCSREF SCROLAD IPCSREF SCROLL subcommand IPCSREF SCROLLEN IPCSREF SELECT subcommand IPCSREF SCROLUAD IPCSREF SYMPTOM subcommand IPCSREF IPCS (Interactive Problem Control System) TACTIVE subcommand IPCSREF commands TIME subcommand IPCSREF APAR command IPCSREF TLOADL subcommand IPCSREF definition ADMIN, SYSMSG TOP subcommand IPCSREF FDISPLAY command CONPAO TRACE subcommand IPCSREF IPCSDUMP command IPCSREF, OPGDE TSAB subcommand IPCSREF IPCSPRT command CONPAO, IPCSREF UP subcommand IPCSREF END subcommand IPCSREF USERMAP subcommand IPCSREF FORMAT subcommand IPCSREF VIOBLOK subcommand IPCSREF HELP subcommand IPCSREF VMBLOK subcommand IPCSREF HEX subcommand IPCSREF VMLOADL subcommand IPCSREF HX subcommand IPCSREF + and - subcommand IPCSREF PROCESS subcommand IPCSREF &name IPCSREF QUIT subcommand IPCSREF ? subcommand IPCSREF SELECT subcommand IPCSREF **IPCSSCAN TRACE CONPAO** MAP command IPCSREF TIMESPAN subcommand IPCSREF IPCSSCAN command CONPAO, IPCSREF notational convention IPCSREF AREGS subcommand IPCSREF PRB command IPCSREF ARIOBLOK subcommand IPCSREF PROB command IPCSREF **BOTTOM subcommand IPCSREF** STAT command IPCSREF C subcommand IPCSREF summary IPCSREF CHAIN subcommand IPCSREF TRAPFILE command IPCSREF CMS subcommand IPCSREF IPCSDUMP command DIAG, OPGDE CMSPOINT subcommand IPCSREF description IPCSREF CORTABLE subcommand IPCSREF example session IPCSREF DISPLAY subcommand IPCSREF format IPCSREF functions provided IPCSREF DOSPOINT subcommand IPCSREF DOWN subcommand IPCSREF keywords used in PRBnnnnn report **DUMPID** subcommand **IPCSREF IPCSREF** END subcommand IPCSREF messages IPCSREF

problem report generation IPCSREF responses IPCSREF symptom record generation IPCSREF usage notes CP dump IPCSREF general IPCSREF partial dump IPCSREF IPCSMAP subcommand of IPCSSCAN command description IPCSREF example output IPCSREF format IPCSREF functional category IPCSREF messages IPCSREF responses IPCSREF usage notes IPCSREF IPCSPRT command DIAG, CONPAO description IPCSREF format IPCSREF messages IPCSREF operands IPCSREF options IPCSREF responses IPCSREF usage notes IPCSREF **IPCSPRT** subcommands END subcommand IPCSREF FORMAT subcommand IPCSREF general usage notes IPCSREF HELP subcommand IPCSREF HEX subcommand IPCSREF HX subcommand IPCSREF PROCESS subcommand IPCSREF QUIT subcommand IPCSREF SELECT subcommand IPCSREF summary IPCSREF TIMESPAN subcommand IPCSREF IPCSSCAN command DIAG CMS subset mode IPCSREF description IPCSREF display of CP dump IPCSREF format IPCSREF HELP IPCSREF identify dumps and CPTRAP files **IPCSREF** interactive display IPCSREF locating addresses IPCSREF messages IPCSREF on a display terminal IPCSREF operands IPCSREF printing data IPCSREF

query last subcommand IPCSREF responses IPCSREF selecting data IPCSREF usage notes IPCSREF IPCSSCAN scroll interface IPCSREF **IPCSSCAN** subcommands AREGS subcommand IPCSREF ARIOBLOK subcommand IPCSREF **BOTTOM** subcommand **IPCSREF** C subcommand IPCSREF CHAIN subcommand IPCSREF CMS subcommand IPCSREF CMSPOINT subcommand IPCSREF CORTABLE subcommand IPCSREF DISPLAY subcommand IPCSREF DOSPOINT subcommand IPCSREF DOWN subcommand IPCSREF **DUMPID** subcommand **IPCSREF** END subcommand IPCSREF FDISPLAY subcommand IPCSREF FORMAT subcommand IPCSREF G subcommand IPCSREF GDISPLAY subcommand IPCSREF general usage notes IPCSREF HELP subcommand IPCSREF HEX subcommand IPCSREF HX subcommand IPCSREF IDENTIFY subcommand IPCSREF IPCSMAP subcommand IPCSREF **IUCV** subcommand **IPCSREF** LOCATE (UP) subcommand IPCSREF LUNAME subcommand IPCSREF MAPA subcommand IPCSREF MAPN subcommand IPCSREF MREGS subcommand IPCSREF MRIOBLOK subcommand IPCSREF OSPOINT subcommand IPCSREF PRINT subcommand IPCSREF **QUIT subcommand IPCSREF** REGS subcommand IPCSREF REUSE subcommand IPCSREF RIOBLOK subcommand IPCSREF SCROLL subcommand IPCSREF SELECT subcommand IPCSREF summary IPCSREF SYMPTOM subcommand IPCSREF TACTIVE subcommand IPCSREF TIME subcommand IPCSREF TLOADL subcommand IPCSREF TOP subcommand IPCSREF

TRACE subcommand IPCSREF	effect on 3880 ADMIN
TSAB subcommand IPCSREF	entering CMS environment CMSUG
UP subcommand IPCSREF	how to automate for VSE/SP guest RGOS
USERMAP subcommand IPCSREF	linking CMS installation saved segment
VIOBLOK subcommand IPCSREF	CMSUG
VMBLOK subcommand IPCSREF	monitor considerations ADMIN
VMLOADL subcommand IPCSREF	MVS virtual machine RGOS
+ and - subcommand IPCSREF	directory control statement RGOS
&name IPCSREF	EXEC procedure RGOS
? subcommand IPCSREF	preferred guest RGOS
IPCSSCAN to view AVS data DIAG	V = V or $V = R$ guest <b>RGOS</b>
IPCSSCAN TRACE command CONPAO	of an operating system GENCMD
IPF (Interactive Productivity Facility) INTRO	of stand-alone dump facility DIAG
IPL CMS command	second-level VM system
description of ADMIN	directory control statement RGOS
SAVESYS parameter ADMIN	stopping GENCMD
IPL command ADMIN, CMSUG, GENCMD	suppressing automatic GENCMD
described GENCMD	VMSAVE option ADMIN
for named systems GENCMD	VSE virtual machine RGOS
operands	device support facility RGOS
ATTN GENCMD	directory control statement RGOS
CLEAR GENCMD	EXEC procedure RGOS
cylno GENCMD	IPLADDR operand
nnnnn GENCMD	of DEFNUC macro PLNGDE
NOCLEAR GENCMD	IPLCYL0 operand
PARM GENCMD	of DEFNUC macro PLNGDE
PMA GENCMD	IPLing CP nucleus from tape INST
PMAV GENCMD, RGOS	IPLPROC RGOS
STOP GENCMD	IPRCODE CONGREF
systemname GENCMD	IPWHATRC CONGREF
vaddr GENCMD	IS NULL predicate of SQL APGDE
responses GENCMD	ISAM Interface Program (IIP) ADGCMS
stopping server with SFSAD	ISAM operand
usage notes GENCMD	of SET command GENCMD
IPL control statement INTRO	ISAM (Indexed Sequential Access Method)
VM/VSE RGOS	GENCMD
IPL directory control statement	CMS restriction ADGCMS
FILEPOOL operand of SFSAD	CMS/DOS restriction ADGCMS
operands	ISPEXEC APGDE
data PLNGDE	ISPEXEC command APGDE
iplsys PLNGDE	ISPF (Interactive System Productivity Facility)
PARM PLNGDE	APGDE, INTRO
optional CMS initialization parameters	breakpoints APGDE
AUTOCR PLNGDE	browse option APGDE
BATCH PLNGDE	commands APGDE
INSTSEG PLNGDE	ISPSTART APGDE
NOSPROF PLNGDE	PRINT APGDE
using to define default file mode A SFSAD	PRINT-HI APGDE
IPL statement information, DIAGNOSE	dialog test option APGDE
code X'B0' SFPROG	
	dialog testing APGDE dialogs APGDE
IPL (initial program load) APGDE, TERMREF automatic APGDE	error handling APGDE
command APGDE	ERRORS setting APGDE
	EXECs and APGDE
definition ADMIN, SYSMSG	EAECS AND AFGUE
device, replacing directory entry SFPROG	

file tailoring output libraries APGDE services APGDE skeletons APGDE function trace option APGDE functions APGDE functions option APGDE **HELP** panels **APGDE** invoking APGDE ISPEXEC APGDE libraries APGDE LOADLIBS APGDE log option APGDE message definition APGDE message libraries APGDE messages APGDE panel libraries APGDE option APGDE services APGDE panels APGDE PDF APGDE libraries APGDE prototyping applications APGDE requirements using APGDE SELECT service APGDE services APGDE skeleton libraries APGDE skeletons APGDE table input libraries APGDE output libraries APGDE services APGDE tables APGDE tables option APGDE traces option APGDE TXTLIBs APGDE variable services APGDE variable trace option APGDE variables option APGDE ISPFILE libraries APGDE ISPLINK APGDE ISPLLIB APGDE ISPLNK APGDE ISPMLIB libraries APGDE ISPPLIB libraries APGDE ISPSLIB libraries APGDE ISPSTART command APGDE ISPTABL libraries APGDE

ISPXLIB APGDE ISQL (Interactive SQL) APGDE, INTRO commands INPUT APGDE testing APGDE issuing commands to CMS SPIUG to CP SPIUG to the given subcommand environment EXEC2 to the host system EXEC2 issuing CP commands to first-level VM RGOS VSE/SP virtual machine RGOS italic type PRIMER ITASK EXEC INST ITERATE instruction SPIUG See also DO instruction description SPIREF use of variable on SPIREF ITRACE command DIAG, GCSREF all operand GCSREF **AVS DIAG** description GCSREF end operand GCSREF GCS DIAG group operand GCSREF gtrace operand GCSREF off operand GCSREF sup operand GCSREF ITRACE operator command SFSAD ITRACE start-up parameter SFSAD IUCV subcommand of IPCSSCAN command description IPCSREF example output IPCSREF format IPCSREF functional category IPCSREF messages IPCSREF responses IPCSREF usage notes IPCSREF **IUCV** (Inter-User Communications Vehicle) CONPAO, DIAG, SFPROG ACCEPT function CONGREF anchor block DIAG application debugging DIAG authorizing communication path PLNGDE basic communication functions SFPROG control paths SFPROG

ISPTLIB libraries APGDE

control statement for server machines SFSAD

Refer to the foldout page at the back of this book for a chart of abbreviations and their corresponding manuals.

CMS SFPROG	*SIGNAL PLNGDE
between two virtual machines SFPROG	*SPL PLNGDE
communication	Error Logging System Service, use SFPROG
between virtual machines INTRO	estimating connections for SFSAD
collection resource management system service	external interrupt SFPROG
SFPROG	avoiding SFPROG
DASD block I/O system service SFPROG	control SFPROG
error logging system service SFPROG	enabling or disabling SFPROG
example SFPROG	message SFPROG
message system service SFPROG	functional terminology SFPROG
monitored in CP internal trace table	functions
SYSCMD	See IUCV (Inter-User Communications
signal system service SFPROG	Vehicle) functions
spool system service SFPROG	introduction SFPROG
using control paths SFPROG	invoking SFPROG
using data in a buffer SFPROG	interrupts CMSMIG
using data in a parameter list SFPROG	IUCV support RGOS
with CP system services INTRO, SFPROG	macro ADRCMS
with DASD Block I/O SFPROG	description SFPROG
CONNECT function CONGREF	maximum connections for SFSAD
connection	maximum number of links per server
complete SFPROG	machine SFSAD
pending SFPROG	Message All System Service SFPROG
quiesced SFPROG	message complete SFPROG
resumed SFPROG	message pending SFPROG
severed SFPROG	Message System Service use SFPROG
connections	messages SFPROG
specifying maximum number PLNGDE	data transfer SFPROG
control paths SFPROG	identification SFPROG
DASD block I/O system service, use SFPROG	parameters, specifying SFPROG
DCLBFR function CONGREF	path ID block <b>DIAG</b>
definition ADMIN, GCSREF, SYSMSG	path ID block DIAG
DESCRIBE function CONGREF	control SFPROG
description INTRO	programmable operator SFPROG
differences from APPC/VM CONGREF	QUERY function CONGREF
directory control statement operands	receiving messages from the special message
ALLOW PLNGDE	facility SFPROG
ANY PLNGDE	RTRVBFR function CONGREF
GATEANY PLNGDE	security SECUR, SFPROG
gateid PLNGDE	sequence of functions SFPROG
GATEWAY PLNGDE	SETCMASK function CONGREF
gatewayid PLNGDE	SETMASK function CONGREF
GLOBAL PLNGDE	
LOCAL PLNGDE	signal system service, use SFPROG SNA environment use SFPROG
MSGLIMIT PLNGDE	
	special message facility SFPROG Spool System Service, use SFPROG
PRIORITY PLNGDE	
RESANY PLNGDE resid PLNGDE	statements
	ALLOW directory entry CONPAO
resource ID PLNGDE	example CONPAO
REVOKE PLNGDE	for gateways CONPAO
userid PLNGDE	for global/local resources CONPAO
*CCS PLNGDE	gatewayid CONPAO
*CRM PLNGDE	manage gateways CONPAO
*IDENT PLNGDE	resourceid CONPAO
*LOGREC PLNGDE	userid CONPAO

\*CRM directory entry CONPAO \*IDENT manage gateways CONPAO \*IDENT manage global/local resources **CONPAO** \*IDENT GATEANY GATEWAY directory entry CONPAO support for MVS guest RGOS system services SFPROG DASD block I/O SFPROG error logging SFPROG message SFPROG message all SFPROG signal SFPROG SNA console communication services **SFPROG** spool SFPROG TESTCMPL function CONGREF TESTMSG function CONGREF trace table entries SFPROG field definitions SFPROG formats SFPROG suppressing SFPROG tracing IUCV DIAG userid block DIAG IUCV (Inter-User Communications Vehicle) functions SFPROG CONNECT CONGREF controlling external interrupts SFPROG RECEIVE CONGREF SENDCNF CONGREF SENDCNFD CONGREF SENDDATA CONGREF SENDERR CONGREF SENDREQ CONGREF SEVER CONGREF ACCEPT SFPROG parameter list format SFPROG using SFPROG CONNECT SFPROG parameter list format SFPROG to the SPOOL system service SFPROG using SFPROG DECLARE BUFFER, using SFPROG parameter list format SFPROG DESCRIBE SFPROG parameter list format SFPROG using SFPROG **PURGE** parameter list format SFPROG using SFPROG

QUIESCE SFPROG parameter list format SFPROG using SFPROG RECEIVE SFPROG parameter list format SFPROG using SFPROG REJECT SFPROG parameter list format SFPROG using SFPROG REPLY SFPROG parameter list format SFPROG using SFPROG RESUME SFPROG parameter list format SFPROG using SFPROG RETRIEVE BUFFER, using SFPROG SEND SFPROG parameter list format SFPROG to the DASD block I/O system service **SFPROG** to the signal system service SFPROG to the SPOOL system service SFPROG using SFPROG SET CONTROL MASK SFPROG parameter list format SFPROG using SFPROG SET MASK SFPROG parameter list format SFPROG using SFPROG SEVER SFPROG parameter list format SFPROG using SFPROG terminology SFPROG TEST COMPLETION SFPROG parameter list format SFPROG using SFPROG TEST MESSAGE, using SFPROG IUCVCOM macro CONGREF, GCSREF accept parameter GCSREF code parameter GCSREF connect parameter GCSREF description GCSREF error parameter GCSREF execute format GCSREF exit parameter GCSREF list address format GCSREF list format GCSREF mf parameter GCSREF name parameter GCSREF

QUERY, using SFPROG

path parameter GCSREF prmlist parameter GCSREF purge parameter GCSREF query parameter GCSREF quiesce parameter GCSREF receive parameter GCSREF reject parameter GCSREF rep parameter GCSREF reply parameter GCSREF resume parameter GCSREF send parameter GCSREF sever parameter GCSREF uword parameter GCSREF IUCVINI macro CONGREF, GCSREF clr parameter GCSREF description GCSREF error parameter GCSREF execute format GCSREF exit parameter GCSREF list address format GCSREF list format GCSREF

mf parameter GCSREF

name parameter GCSREF priv parameter GCSREF rep parameter GCSREF set parameter GCSREF uword parameter GCSREF IVP (Installation Verification Procedure) CMS functions tested INST CP functions tested INST format IVPM1 minidisk INST format IVPM2 minidisk INST interpret test results INST overview INST procedure INST requirements INST system facilities not tested INST variations INST IVPM1 INST, PLNGDE IVPM2 INST, PLNGDE I/O operand of INDICATE command SYSCMD of TRACE command GENCMD

J

job control language equivalent in CMS ADGCMS jobname for job sent to CMS batch facility specifying CMSUG used to identify spool files CMSUG jobs, submitting for CMS batch facility CMSUG under CMS RGOS using SUBVSE EXEC RGOS JOIN macro XEDIT example of XEDIT with DBCS strings XEDIT JOIN subcommand of XEDIT command APGDE joining a line at cursor PRIMER collections CONPAO files **XEDITUG** 

in typewriter mode XEDITUG

lines XEDITUG

at column number XEDIT at column pointer XEDIT

at cursor **XEDIT** 

with strings inserted XEDIT

JOURNAL operand

of QUERY command SYSCMD of SET command SYSCMD

journaling

accounting records ADMIN as a detection mechanism SECUR LOGON, AUTOLOG, LINK commands **ADMIN** 

JULIAN option of DATE function SPIREF jumping through your program SPIUG justified words

left-justified EXEC2, SPIUG right-justified EXEC2 JUSTIFY function SPIREF

K	function keys for PC TERMREF
•	INS MODE APGDE
Kanji feature SERV	keyboard for PC TERMREF
override file SERV	LOCK CMSLOT, PRIMER
keeping	new-line PRIMER
changes to a file ADRCMS	numeric keys for PC TERMREF
messages in a file PRIMER	null entry INST
warnings in a file PRIMER	PA1 APGDE
KEEPREAD parameter	PA2 APGDE
DMSREVOK (SFS Revoke Authority)	PF (program function) APGDE, INTRO,
ADRCMS	TERMREF
KEEP= operand	printing storage GENCMD
HNDEXT macro ADRCMS	screen management APGDE, TERMREF
	SHIFT CMSLOT, PRIMER
HNDIO macro ADRCMS	storage
HNDSVC macro ADRCMS	changing ADMIN
key topics SAACOM	displaying GENCMD
keyboard APGDE, TERMREF	tab PRIMER
for PC TERMREF	that signal the system INST
function keys TERMREF	to delete characters PRIMER
F1-F10 keys TERMREF	typewriter keys for PC TERMREF
numeric keys TERMREF	keyword control statements
typewriter keys TERMREF	for FILEPOOL FORMAT AUDIT SFSAD
layout PRIMER	for FILESERV GENERATE SFSAD
lock TERMREF	for FILESERV MINIDISK SFSAD
with special features TERMREF	keywords
KEYLEN option of FILEDEF command	See also instructions
CMSREF	conflict with commands SPIREF
keys TERMREF	cryptographic SECUR
ATTN INST	mixed case SPIREF
back tab PRIMER	of DO instruction
BACKSPACE CMSLOT	END SPIUG
BREAK CMSLOT	of IF instruction
changing storage ADMIN	ELSE SPIUG
character APGDE	THEN SPIUG
CLEAR APGDE	of SELECT instruction
CNCL APGDE	END SPIUG
control APGDE, TERMREF	OTHERWISE SPIUG
control keys for PC TERMREF	
cursor TERMREF	THEN SPIUG
screen management TERMREF	WHEN SPIUG
controlling program function GENCMD	translations of CMSUG
cursor	reservation of SPIREF
control APGDE	to manipulate program stack SPIUG
movement PRIMER	page DIAG
positioning TERMREF	used in PRBnnnnn report IPCSREF
DEL APGDE	KEY = operand
ENTER CMSLOT, INST	NUCEXT SET ADRCMS
ERASE EOF APGDE, PRIMER	SUBCOM SET ADRCMS
ERASE INPUT APGDE	SUBPOOL CREATE ADRCMS

SEC operand CMSREF L standard labels CMSUG use of CMSUG L border command PRIMER VOLID operand CMSREF L operand VOLSEQ operand CMSREF of DCP command SYSCMD labeling LA instruction a line **XEDITUG** conversion considerations ADGCMS, DASD volumes ADMIN, SFPROG **CMSMIG** LABOFF operand of FILEDEF command label as targets of CALL SPIREF LABOFF (label off) processing CMSUG as targets of SIGNAL SPIREF Laddr operand description of EXEC2, SPIREF, SPIUG of ATTACH command SYSCMD DOS disks ADGCMS of DETACH command SYSCMD duplicate SPIREF of DISABLE command SYSCMD example EXEC2 of ENABLE command SYSCMD in a CALL instruction SPIUG laddr, variable in INTERPRET instruction SPIREF described GENCMD, SYSCMD OS VSAM disks, determining for AMSERV LAN (local area network) IPCSREF **ADGCMS** links CONPAO performance EXEC2 LANGADD function search EXEC2 adding LANGBLKs to language block chain search algorithm SPIREF **ADRCMS** using VSAM tapes in CMS/DOS ADGCMS language control block ADRCMS using VSAM tapes in OS ADGCMS LANGBLK macro ADRCMS LABEL control statement ADMIN LANGFIND function of Format/Allocate program SFPROG language control block ADRCMS label off (LABOFF) processing, tapes CMSUG locating LANGBLKs on language block chain LABEL option **ADRCMS** of FORMAT command CMSREF LANGGCTL file type usage in CMS CMSUG of LISTFILE command CMSREF LANGGEN command ADMIN, CMSREF, label **SFPROG** processing, general description CMSUG control file SFPROG requirements, FB-512 DASD OPGDE example SFPROG writing on CMS minidisks CMSUG updating SFPROG LABELDEF command format ADMIN, SFPROG as used for FILEPOOL BACKUP SFSAD LANGID operand CHANGE option CMSREF of DEFNUC macro PLNGDE CLEAR operand CMSREF of NAMELANG macro PLNGDE CRDTE operand CMSREF langid, variable description CMSREF, CMSUG described GENCMD, SYSCMD EXDTE operand CMSREF LANGLEV operand FID operand CMSREF of DEFNUC macro PLNGDE for FILEPOOL RESTORE SFSAD LANGMAP file type usage in CMS CMSUG FSEQ operand CMSREF LANGMCTL file type usage in CMS CMSUG GENN operand CMSREF LANGMERG command ADMIN, CMSREF, GENV operand CMSREF **SFPROG** in tape processing CMSUG control file SFPROG NOCHANGE option CMSREF example SFPROG PERM option CMSREF format ADMIN, SFPROG

language control block ADRCMS	LASTING lock CMSLOT, CMSUG, PRIMER
LANGADD function ADRCMS	lasting locks ADGCMS, CMSMIG
LANGFIND function ADRCMS	LASTING parameter
language IDs for supported languages ADMIN,	DMSCRLOC (SFS Create Lock) ADRCMS
SFPROG	LASTLOR option
language interface to APPC/VM	of EXTRACT XEDIT
assembler CMSMIG	of QUERY XEDIT
high-level or procedures CMSMIG	of SET XEDIT
languages	LASTMSG option
displaying messages in other SYSMSG	of EXTRACT XEDIT
national SFPROG	of QUERY XEDIT
adding information for an application	of TRANSFER XEDIT
ADMIN, SFPROG	lastpage operand
deleting ADMIN, SFPROG	of LOCK command SYSCMD
deleting application information ADMIN,	of UNLOCK command SYSCMD
SFPROG	LASTPOS function SPIREF, SPIUG
feature tape SFPROG	later warm start
installing on VM SFPROG	preparing system for SYSCMD
LANGGEN command ADMIN, SFPROG	layout of display screen TERMREF
langids for supported languages ADMIN	LDT statement of TXTLIB member APGDE
LANGMERG command ADMIN, SFPROG	leading blank removal with STRIP function
loading the files from tape to disk SFPROG	SPIREF
saving files for CP and CMS SFPROG	leading zeros
setting, DIAGNOSE code X'C8' SFPROG	adding with the RIGHT function SPIREF
updating user directory entries for SFPROG	example EXEC2
updating files for an existing language	removal with STRIP function SPIREF
ADMIN, SFPROG	removing EXEC2
updating message repositories ADMIN,	learning to use XEDIT CMSLOT, PRIMER
SFPROG	leased line TERMREF
processor date and version SPIREF	LEAVE instruction SPIUG
processors INTRO	See also DO instruction
statements	description of SPIREF
in EXEC 2 language CMSUG	use of variable on SPIREF
in REXX language, for System Product	LEAVE operand
Interpreter CMSUG	of DETACH command SYSCMD
structure and syntax SPIREF	of SPTAPE command SYSCMD
supported by CPI Communications CMSMIG	LEAVE option
LANGUAGE record SFPROG	of FILEDEF command CMSREF
larceny, stealing PSWs CMSMIG	leaving
large files split into smaller files CMSUG	CMS subset environment CMSUG
last	CMS/DOS environment CMSUG
command, re-executing CMSLOT	full-screen CMS PRIMER
line of file, moving current line to CMSLOT	input mode CMSUG
subcommand	insert mode <b>PRIMER</b>
advancing line pointer and repeating XEDIT	loops SPIUG
displaying XEDIT	the signal system service SFPROG
reexecuting XEDIT	XEDIT environment CMSUG
last text only (LTO) option SERV	your program SPIREF, SPIUG
last-in/last-out	LEFT XEDITUG
See LIFO (last-in/last-out)	LEFT command of DMS/CMS APGDE
LAST output field of STAT command IPCSREF	LEFT function SPIREF, SPIUG
LASTCMND field DIAG	left shift XEDIT
LASTEXEC field DIAG	

LEFT subcommand XEDIT example of XEDIT with DBCS strings XEDIT left-justified EXEC2, SPIUG LENGTH function SPIREF, SPIUG length limits EXEC2 of CMS ready message, changing CMSUG of words, finding EXEC2 LENGTH option of EXTRACT XEDIT of OUERY XEDIT of TRANSFER XEDIT LENGTH parameter (APPC) of RECEIVE AND WAIT CONGREF of SEND DATA CONGREF less than operator SPIUG less than operator (<) SPIREF less than or equal operator (< =) SPIREF less than or greater than operator (<>) SPIREF LET option of LKED command APGDE, **CMSREF** Level One Support Center INST levels of communication directories CONPAO conversation security See conversation, security levels of headings CMSLOT SVC ADGCMS LFBUF RGOS LGLOPR See also programmable operator facility action routine SFPROG command SFPROG statement SFPROG Lhexloc operand of STCP command SYSCMD Lhexloc1 operand of DCP command SYSCMD of DMCP command SYSCMD LIBE option of INCLUDE command CMSREF of LKED command CMSREF of LOAD command CMSREF LIBMAC option of ASSEMBLE command **CMSREF** LIBNAME option of EXTRACT XEDIT

libname, variable described GENCMD, SYSCMD LIBPDS statement of MACLIBS APGDE libraries APGDE CMS/DOS ADGCMS COBOL subroutine INTRO copying modules from ADGCMS creating APGDE defining APGDE DOS core image ADGCMS DOS libraries in CMS/DOS ADGCMS DOS/VSE source statement used in CMS **ADGCMS** ISPF (Interactive System Productivity Facility) concatenating APGDE **ISPFILE APGDE** ISPMLIB APGDE ISPPLIB APGDE ISPSLIB APGDE ISPTABL APGDE ISPTLIB APGDE message APGDE panel APGDE skeleton APGDE table input APGDE table output APGDE ISPF/PDF APGDE load APGDE LOADLIB APGDE MACLIBs in EXECs APGDE macro APGDE See also macro libraries compressing APGDE displaying members of APGDE examining contents of APGDE extracting a member of APGDE manipulating members of APGDE printing members of APGDE system APGDE members APGDE needed for programs PRIMER OS, macro libraries See macro libraries, OS PDF APGDE PL/I subroutine INTRO programs, CMS/DOS ADGCMS routines callable services library ADGCMS

Refer to the foldout page at the back of this book for a chart of abbreviations and their corresponding manuals.

of QUERY XEDIT

using VMLIB routines ADGCMS

services APGDE	Interactive Problem Control System (IPCS)
structure of VSE/SP RGOS	INTRO
text APGDE	Interactive Productivity Facility (IPF) INTRO
adding members to APGDE	OS/VS COBOL INTRO
deleting members of APGDE	Pass-Through Facility INTRO
replacing members of APGDE	PC/VM Bond INTRO
TXTLIBs APGDE	PL/I INTRO
in EXECs APGDE	Professional Office System (PROFS) INTRO
types	Remote Spooling Communications Subsystem
LOADLIBS ADGCMS	(RSCS) Networking INTRO
MACLIBs ADGCMS	service provided INTRO
TXTLIBs ADGCMS	SQL/Data System INTRO
using directories ADGCMS	SQL/Data System with QMF INTRO
volumes for CMS/DOS directory entries	Systems Application Architecture INTRO
ADGCMS	VM/SP High Performance Option (HPO)
VS Pascal INTRO	INTRO
VSE	VS COBOL II INTRO
assigning logical units CMSREF	VS FORTRAN INTRO
obtain information about CMSREF	VS FORTRAN Interactive Debug INTRO
VSE core image	VS Pascal INTRO
defining IJSYSCL CMSREF	LIFO (last-in/first-out) APGDE, EXEC2, SPIUG
fetching phases from CMSREF	operand
VSE procedure	of CONVERT COMMANDS command
copying procedures from CMSREF	CMSREF
displaying directories CMSREF	option
displaying procedures from CMSREF	of IDENTIFY command CMSREF
printing procedures from CMSREF	of NAMEFIND command CMSREF
punching procedures from CMSREF	of NUCXMAP command CMSREF
VSE relocatable	stacking SPIREF
defining IJSYSRL CMSREF	LIKE predicate of SQL APGDE
link-editing modules from CMSREF	
VSE source statement	LIMCT option of FILEDEF command CMSREF LIMIT operand
	of MONITOR command SYSCMD
copying macros from CMSREF	of SET command SYSCMD
defining IJSYSSL CMSREF	
LIBRARY loader control statement ADGCMS, CMSREF	limits
	architected SFSAD
LIBTYPE option	for APPC/VM in CMS CONGREF
of EXTRACT XEDIT	for column pointer movement defined XEDIT
of QUERY XEDIT	for EXEC 2 files in CMS EXEC2
licensed program	for line pointer movement defined XEDIT
APL2 INTRO	monitoring SFSAD
COBOL INTRO	of CMS IUCV SFPROG
defined INTRO	of your file space CMSLOT, PRIMER
Directory Maintenance INTRO	spool file OPGDE
Display Management System (DMS/CMS)	session, changing CONPAO
INTRO	line editing
Document Composition Facility (DCF)	characters TERMREF
INTRO	symbols, controlling GENCMD
examples INTRO	line end character XEDITUG
Graphical Data Display Manager (GDDM)	defining XEDIT
INTRO	recognizing XEDIT
IBM BASIC INTRO	used in power typing XEDIT
identification bits SFPROG	line length
	controlling at your terminal <b>GENCMD</b> of terminal <b>SPIREF</b>

line location information PRIMER line-mode line mode, editing in XEDIT display TERMREF migrating to full-screen CMS CMSUG line name assigning using SET POINT XEDIT of CMS Editor CMSREF assigning using .xxxx (prefix subcommand) using the editor CMSUG **XEDIT** LINECOUN option deleting XEDIT of ASSEMBLE command CMSREF specifying target as XEDIT of PRINT command CMSREF target as XEDITUG LINEDEL operand example of XEDITUG of TERMINAL command GENCMD line number LINEDIT macro displaying XEDIT, XEDITUG BUFFA = operand ADRCMS renumbering XEDIT COMP = operand ADRCMS setting on **PRIMER** converting decimal values to EBCDIC ADRCMS specifying target as XEDIT used in COPY command CMSLOT to hexadecimal ADRCMS used in GET command CMSLOT displaying used in MOVE command CMSLOT conversion results at terminal ADRCMS used in SORT command CMSLOT lines contained in buffer ADRCMS LINE operand multiple blanks ADRCMS of CLUSTER macro PLNGDE parameter lists ADRCMS DISP = operand ADRCMS of DEFINE command GENCMD of EXTRACT XEDIT DOT = operand ADRCMS of QUERY XEDIT execute format ADRCMS of TRANSFER XEDIT indicating message substitution ADRCMS line pointer XEDITUG list format ADRCMS MAXSUBS = operand ADRCMS advancing and repeating last subcommand XEDIT MF = operand ADRCMSusing a target XEDIT multiple substitution lists ADRCMS using BOTTOM XEDIT passing lines to CP ADRCMS using DOWN XEDIT period placement ADRCMS using NEXT XEDIT RENT = operand ADRCMS controlling movement of when string not specifying found XEDIT message text ADRCMS effect of SET STAY on XEDIT substitution length ADRCMS in typewriter mode XEDITUG substitutions ADRCMS moved by target XEDITUG standard format ADRCMS movement, defining limits XEDIT SUB = operand ADRCMS moving TEXTA = operand ADRCMS using / (prefix subcommand) XEDIT TEXT = operand ADRCMS to last file line XEDIT LINEDIT operand to TOF XEDIT of SET command GENCMD, TERMREF up XEDIT LINEND operand line timeout feature TERMREF of EXTRACT XEDIT line width of terminal SPIREF of OUERY XEDIT line wrapping, automatic XEDIT, XEDITUG of SET XEDIT line writer interface, IPCS IPCSREF of TERMINAL command GENCMD of TRANSFER XEDIT LINENUM option of NAMEFIND command **CMSREF** 

LINERD macro	NOCR = operand ADRCMS
ATTREST = operand ADRCMS	PRIOR = operand ADRCMS
CASE = operand ADRCMS	PROTECT = operand ADRCMS
COL = operand ADRCMS	PSS = operand ADRCMS
DATA = operand ADRCMS	VNAME = operand ADRCMS
ERROR = operand ADRCMS	writing lines from a terminal ADGCMS
LINE = operand ADRCMS	Line = XEDITUG
LOGICAL = operand ADRCMS	link
PAD = operand ADRCMS	accounting record CONPAO
PROMPT = operand ADRCMS	journaling function status set SYSCMD
reading lines from a terminal ADGCMS	LINK block DIAG
reading lines of input from terminal ADRCMS	LINK command ADMIN, CMSUG, GENCMD
	access mode passwords GENCMD
specifying buffer address ADRCMS	accessing minidisks after CMSREF
TRANS = operand ADRCMS	as used during file pool regeneration SFSAD
TYPE = operand ADRCMS	as used during minidisk replacement SFSAD
VNAME = operand ADRCMS	batch job restrictions GENCMD
WAIT = operand ADRCMS	described GENCMD
writing prompt information ADRCMS	example of use INTRO
lines	LINK batch job statement INTRO
adding PRIMER	LINK control statement INTRO
copying PRIMER	format, in job for CMS batch facility
deleting PRIMER	CMSUG
deleting at terminal before entering GENCMD,	linking to other user's minidisks CMSUG
SYSCMD	operands
duplicating PRIMER	mode GENCMD
error rate CONPAO	PASS = password GENCMD
from a program retrieved with SOURCELINE	userid GENCMD
SPIREF	vaddrl <b>GENCMD</b>
inserting words into PRIMER	password suppression ADMIN
low-speed communication	responses GENCMD
connecting previously unconnected	usage notes GENCMD
SYSCMD	2305 restrictions GENCMD
mode of CMS editor CMSREF	LINK directory control statement PLNGDE
moving PRIMER	MVS guest RGOS
performance CONPAO	operands PLNGDE
recovering PRIMER	mode PLNGDE
speed CONPAO	userid PLNGDE
types CONPAO	vaddr PLNGDE
LINES operand	preferred machine assist PLNGDE
of QUERY command SYSCMD	restriction regarding control minidisk
of QUERY VIRTUAL command GENCMD	SFSAD
LINESIZE function SPIREF	restriction regarding storage group minidisks
LINESIZE operand	SFSAD
of TERMINAL command GENCMD	VSE RGOS
LINEWRT macro	LINK journaling
ALARM = operand ADRCMS	accounting records ADMIN
COLOR = operand ADRCMS	LINK macro GCSREF
COLOR - operand ADRCMS	
DATA = operand ADRCMS	de parameter GCSREF
	description GCSREF
displaying lines of output at terminal ADRCMS	ep parameter GCSREF
ERROR = operand ADRCMS	eploc parameter GCSREF
EXTHI = operand ADRCMS	execute format GCSREF
HILITE = operand ADRCMS	id parameter GCSREF
LINE = operand ADRCMS	list format GCSREF

mf parameter GCSREF	ATTACH command CONPAO
param parameter GCSREF	DEDICATE command CONPAO
sf parameter GCSREF	deleting (DELETE LINK) CONPAO
vl parameter GCSREF	example of CONPAO
LINK operand of SET command SYSCMD	inoperational CONPAO
LINK (OS macro) APGDE	performance of CONPAO
link-editing	querying CONPAO
in CMS/DOS ADGCMS, CMSREF	supported CONPAO
modules from DOS relocatable libraries	types CONPAO
ADGCMS	LINKS operand
modules from VSE relocatable libraries	of QUERY command GENCMD
CMSREF	LIOCS routines supported by CMS/DOS
output ADGCMS	ADGCMS
specifying control statements ADGCMS	list SPIREF
TEXT files ADGCMS	address CONGREF
TEXT files in storage CMSREF	address format GCSREF
linkage	definition PRIMER
direct branch ADGCMS, ADRCMS. CMSMIG	format GCSREF
conventions APGDE	of files, saving <b>PRIMER</b>
editor control statements	of Names
VSE supported in CMS/DOS CMSREF	entry in a names file CMSLOT
editor map	preparing a note for CMSLOT
created by DOS/VSE linkage editor	of people
ADGCMS	sending file to CMSLOT
option of VSE ACTION control statement,	sending note to CMSLOT
effect in CMS/DOS ADGCMS	of related references CONPAO
OS/MVS control statements supported by	ordered PRIMER
TXTLIB command ADGCMS	simple PRIMER
registers APGDE, GCSREF	tags for CMSLOT, PRIMER
supervisor assisted	definition list CMSLOT
See supervisor assisted linkage	ordered list CMSLOT
linkctl operand of FDISPLAY subcommand	simple list CMSLOT
IPCSREF	unordered list CMSLOT
linkdef operand of FDISPLAY subcommand	unordered PRIMER
IPCSREF	LIST ddname SFSAD
linkid, variable	list format $(MF = L)$
described GENCMD, SYSCMD	CMSIUCV macro SFPROG
linking	HNDIUCV macro SFPROG
a device to your virtual machine <b>GENCMD</b>	LIST operand
CMS installation saved segment CMSUG	of ASSEMBLE command CMSREF
to other user's minidisks CMSUG	of DEFAULTS command CMSREF
to virtual disks GENCMD	of GLOBALV command CMSREF
to your own minidisks CMSUG	of LKED command APGDE, CMSREF
links	of LOADLIB command CMSREF
listing users with current GENCMD	of OPTION command CMSREF
TSAF CONPAO	of TRAPFILE command IPCSREF
adding (ADD LINK) CONPAO	

Refer to the foldout page at the back of this book for a chart of abbreviations and their corresponding manuals.

LIST subcommand	listing
of TESTCOB command APGDE	contents of a directory CMSLOT, PRIMER
of TESTFORT command APGDE	EXECs and editor macros in storage
LISTBREAKS subcommand of TESTFORT	CMSREF
command APGDE	files CMSLOT, PRIMER
LISTBRKS subcommand of TESTCOB	using asterisk or percent signs CMSUG
command APGDE	with the same character string CMSUG
LISTCAT access methods services function	information
ADGCMS	about accessed file modes CMSUG
LISTCPDS file type usage in CMS CMSUG	about CMS files CMSUG
LISTCRA access methods services function	about your virtual machine CMSUG
ADGCMS	requested CMSUG
LISTDIR command CMSREF, CMSUG	input/output assignments ADGCMS
XEDIT option CMSREF	listing members of a MACLIB ADGCMS
LISTDS command	logical unit assignments in CMS/DOS
description CMSREF	ADGCMS
examples CMSREF	SFS directories CMSREF
EXTENT option CMSREF	your files PRIMER
FORMAT option CMSREF	LISTING file APGDE, CMSLOT, INTRO
FREE option CMSREF	PRIMER
listing	changing filename ADGCMS
DOS files ADGCMS	created by access method services CMSREF
extents occupied by VSAM files ADGCMS	created by AMSERV command ADGCMS
free space extents ADGCMS	created by assembler and language processors
OS and DOS disks ADGCMS	CMSUG
OS and DOS files ADGCMS	created by ASSEMBLE command CMSREF
PDS option CMSREF	controlling CMSREF
used with OS/MVS data sets ADGCMS	created by ESERV command ADGCMS
LISTFILE command APGDE, CMSREF,	created by ESERV program CMSREF
CMSUG, SPIUG	defined INTRO
ALLOC option CMSREF	FORTRAN APGDE
APPEND option CMSREF	national language SFPROG
ARGS option CMSREF	printing CMSREF
BLOCKS option CMSREF	usage in CMS CMSUG
DATE option CMSREF	LISTIO command ADGCMS
EXEC option APGDE, CMSREF	A option CMSREF
FIFO option CMSREF	ALL option CMSREF
FMODE option CMSREF	APPEND option CMSREF
FNAME option CMSREF	description CMSREF
FORMAT option CMSREF	EXEC option CMSREF
FTYPE option CMSREF	listing device assignments ADGCMS
HEADER option CMSREF	PROG option CMSREF
LABEL option CMSREF	STAT option CMSREF
LIFO option CMSREF	SYS option CMSREF
NOHEADER option CMSREF	SYSxxx option CMSREF
STACK option CMSREF	UA option CMSREF
TRACE option CMSREF	LISTX option of OPTION command CMSREF
used to list your files CMSUG	LIST38PP file type usage in CMS CMSUG
XEDIT option CMSREF	LIST3800 file type usage in CMS CMSUG
LISTFREQ command APGDE	LIST3800 file type usage in CMS CMSUG
LISTFREQ command of TESTFORT	literal patterns in parsing SPIUG
command APGDE	literal string, evaluating EXEC2

LKED command APGDE	creating CMSREF, CONPAO
ALIGN2 option CMSREF	creating with INCLUDE command
AMODE option CMSREF	CMSREF
description ADGCMS, CMSREF	creating with LOAD command CMSREF
DISK option CMSREF	displaying CMSREF
LET option CMSREF	GCS INST
LIBE option CMSREF	generated by GENMOD command
LIST option CMSREF	CMSREF
MAP option CMSREF	generation <b>DIAG</b>
NAME option CMSREF	invalid card images in CMSREF
NCAL option CMSREF	of MODULE files, displaying CMSREF
NE option CMSREF	replace card images in CMSREF
NOPRINT option CMSREF	undefined external names SERV
NOTERM option CMSREF	NOHIST option CMSREF
OL option CMSREF	option
OVLY option CMSREF	of DISK command CMSREF
PRINT option CMSREF	point, specifying CMSREF
REFR option CMSREF	RMODE option CMSREF
RENT option CMSREF	LOAD directory control statement PLNGDE
REUS option CMSREF	operands PLNGDE
RMODE option CMSREF	C PLNGDE
SIZE option CMSREF	CLST nnnn PLNGDE
specifying input to ADGCMS	fmode PLNGDE
TERM option CMSREF	ftype PLNGDE
usage CMSREF	name PLNGDE
using ADGCMS	P PLNGDE
XCAL option CMSREF	reccount PLNGDE
XREF option CMSREF	startres PLNGDE
LKEDCTRL RGOS	U PLNGDE
LKEDIT file type APGDE	******* PLNGDE
usage in CMS CMSUG	LOAD command APGDE, CMSLOT, DIAG,
Lnnn operand	PRIMER
of QUERY command SYSCMD	AUTO option CMSREF
load XEDITUG	CLEAR option CMSREF
	defined INTRO
AMODE option CMSREF file for IPCS IPCSREF	
GCS (GCSNUC MAP) IPCSREF	description CMSREF determining
,	where files get loaded ADGCMS
key, simulation of <b>GENCMD</b> libraries <b>APGDE</b>	
	where programs are loaded CMSMIG
list	DUP option CMSREF
in DMS/CMS APGDE	duplicate CSECTs CMSREF
requirements ADMIN	example of use INTRO
SPB card ADMIN	executing
maps APGDE, DIAG	program using CMSREF
CMS INST	TEXT files ADGCMS
CMSDOS INST	generating
CMSNUC MAP IPCSREF	relocatable modules ADGCMS
contents SERV	transient modules ADGCMS
CP INST	identifying TXTLIBs to be searched
CPNUC MAP IPCSREF	CMSREF

INV option CMSREF	generating new loader SERV
LIBE option CMSREF	load map SERV
MAP option CMSREF	loading new loader SERV
NOAUTO option CMSREF	location in storage SERV
NOCLEAR option CMSREF	naming new loader SERV
NODUP option CMSREF	punching
NOINV option CMSREF	copy of new loader SERV
NOLIBE option CMSREF	copy of old loader SERV
NOMAP option CMSREF	loader text files SERV
NOREP option CMSREF	search order for unresolved references
NORLDSAV option CMSREF	CMSREF
NOTYPE option CMSREF	updating SERV
ORIGIN option CMSREF	wait conditions SERV, SYSMSG
REP option CMSREF	wait state codes SYSMSG
RESET option CMSREF	loader terminate (LDT) loader control statement
RLDSAVE option CMSREF	CMSREF
saving relocation information CMSMIG	of TXTLIB member APGDE
setting addressing mode ADGCMS,	usage ADGCMS
CMSMIG	loading
START option APGDE, CMSREF	a 3800 named system with DIAGNOSE
TYPE option CMSREF	code X'74' SFPROG
used with GENMOD command	an operating system GENCMD, TERMREF
CMSREF	and saving saved segments ADMIN
LOAD macro GCSREF	AVS code INST
de parameter GCSREF	AVS load module CONPAO
description GCSREF	by named system GENCMD
ep parameter GCSREF	character sets XEDIT
eploc parameter GCSREF	CMS code INST
related parameter GCSREF	CMS into your virtual machine CMSUG
LOAD operand	command
of INDICATE command ADMIN,	See LOAD command
GENCMD, SYSCMD	core image phases into storage for execution
of NETWORK command SYSCMD	ADGCMS
LOAD raddr operand	CP code INST
of SPTAPE command SYSCMD	dumps CONPAO
LOAD subcommand XEDIT	dynamic APGDE
within the profile macro XEDIT	environments of VM/SP HPO ADMIN
LOAD (OS macro) APGDE	EREP code INST
LOADBUF command ADMIN, INTRO	EXECs into storage CMSUG
summary OPGDE, SYSCMD	file pool definition files INST
LOADCMD command DIAG, GCSREF	forms control buffer (FCB) RGOS
description GCSREF	GCS code INST
loader APGDE	HELP files INST
changing device addresses SERV	HIST option CMSREF
CMS CMSREF	indicators ADMIN
control statements ADGCMS, APGDE	installation tools and profiles INST
ENTRY statement CMSREF	IPCS code INST
include control section (ICS) statement	modules GCSREF
CMSREF	
LIBRARY statement CMSREF	named saved segments SFPROG national language files INST
loader terminate (LDT) statement CMSREF	
replace (REP) statement CMSREF	national language files for CP and CMS SFPROG
set location counter (SLC) statement	
CMSREF	Procedures Language/VM files INST
set page boundary (SPB) statement CMSREF	programs
oct page boundary (or d) statement Civioker	See program management

relocatable programs CMSMIG sample files INST saved segments ADMIN servers assembler SRPI dynamically (SRPI macro) SRPI **EXECLOAD** command for SRPI macro servers SRPI NUCXLOAD command SRPI pre-loading assembler SRPI preloading REXX and EXEC 2 SRPI REXX and EXEC 2 (SRPI macro) SRPI SRPI macro responsibilities SRPI SSM considerations SRPI service SERV source code INST suppressing automatic GENCMD system by block address GENCMD system definition files INST system generation tools INST text files ADGCMS determining program entry points ADGCMS determining where files get loaded ADGCMS loader control statements ADGCMS resolving external references ADGCMS TEXT file libraries ADGCMS TSAF CONPAO TSAF code INST universal character set buffer (UCB) RGOS 3704/3705/3725/3745 Communications Controller OPGDE 3704/3705/3725/3745 control program **OPGDE** EP considerations OPGDE LOADLIB command APGDE COMPRESS option CMSREF COPY option CMSREF description CMSREF DISK option CMSREF **EXCLUDE SYSIN** control statement **CMSREF** LIST option CMSREF MODIFY option CMSREF PRINT option CMSREF REPLACE option CMSREF SELECT SYSIN control statement CMSREF TERM option CMSREF LOADLIB option of GLOBAL command CMSREF

LOADLIB file type APGDE usage in CMS CMSUG LOADLIBS ADGCMS, APGDE **CMS** compressing with LOADLIB command **CMSREF** copying with LOADLIB command CMSREF creating with LKED command CMSREF executing a load module from CMSREF listing with LOADLIB command CMSREF ISPF APGDE loadlists APLOAD EXEC SERV ATSLOAD EXEC SERV AVLOAD EXEC SERV **CMS** CMSLOAD EXEC SERV DMS3XJ EXEC SERV DMS3XK EXEC SERV DMS5JA EXEC SERV DMS5JB EXEC SERV DMS5JC EXEC SERV DMS5JD EXEC SERV DMS5JG EXEC SERV SFS load modules SERV CMSLOAD EXEC SERV CP INST APLOAD EXEC SERV AVLOAD EXEC SERV CPLOAD EXEC SERV requirements SERV VRLOAD EXEC SERV CPLOAD EXEC SERV GCS INST, SERV GCSLOAD EXEC INST, SERV TSAF SERV used in DCSSGEN procedure INST used in GENTSAF EXEC procedure SERV used in PRELOAD command procedure **SERV** used in VMFBLD EXEC procedure SERV used in VMFLOAD command procedure CP loadlist requirements SERV format of loadlist entry SERV

function SERV

VRLOAD EXEC SERV

Refer to the foldout page at the back of this book for a chart of abbreviations and their corresponding manuals.

LOADMOD command ADGCMS, CMSMIG	locally attached terminal TERMREF
CMS/DOS considerations CMSREF	locally known LU name
description CMSREF	for connection to resource in SNA network
modules with no header records CMSREF	CONPAO
LOADSYS function ADMIN, SFPROG	for outbound connection CONPAO
LOADTBL command, programmable operator	in APPCPASS directory statement
SFPROG	CONPAO
LOADVFCB command CMSUG, GENCMD described GENCMD	in requester program's CP directory entry CONPAO
operands	LU name qualifier CONPAO
FCB GENCMD	for global/local resource CONPAO
INDEX nn GENCMD	*IDENT CONPAO
name GENCMD	*USERID CONPAO
vaddr GENCMD	specified in communications directory entry
responses GENCMD	CONPAO
usage notes GENCMD	summary of CONPAO
LOC operand of CPTRAP command DIAG	target LU CONPAO
local SAACOM	LOCATE command DIAG
and global resources INTRO	described SYSCMD
definition of SFSAD	description of CMSLOT
resource CMSMIG	operands
access to CONGREF, CONPAO	raddr SYSCMD
accessibility CONPAO	userid SYSCMD
control statements for CONPAO	vaddr SYSCMD
description of CONPAO	
•	responses SYSCMD
identifying CONPAO	summary OPGDE, SYSCMD
IUCV statements for CONPAO	syntax diagram, class C or E SYSCMD used
locally known LU name for CONPAO	
LU name qualifier for CONPAO	in FILELIST CMSLOT, PRIMER in XEDIT PRIMER
name space CONPAO	
programs CONGREF	LOCATE subcommand of XEDIT command
registration CONPAO	APGDE, XEDIT, XEDITUG
resource manager See resource manager	with DBCS strings XEDIT
revoking CONPAO	LOCATE (UP) subcommand of IPCSSCAN
revoking your own CONGREF	command
setting up server virtual machine	description (CPTRAP) IPCSREF
CONPAO	description (dump) IPCSREF
target LU name for CONPAO	example output (CPTRAP) IPCSREF
resource server virtual machine	example output (dump) IPCSREF
See server virtual machine	format (CPTRAP) IPCSREF
service	format (dump) IPCSREF
definition SERV	functional category (CPTRAP) IPCSREF
determining maximum module size using	functional category (dump) IPCSREF
PSPACE macro SERV	messages (CPTRAP) IPCSREF
patches SERV	messages (dump) IPCSREF
source updates SERV	operands (CPTRAP) IPCSREF
ZAPs SERV	operands (dump) IPCSREF
stack APGDE	options (CPTRAP) IPCSREF
local area network (LAN) IPCSREF	responses (CPTRAP) IPCSREF
local IDs	responses (dump) IPCSREF
coding a program to supply SFSAD	usage notes (CPTRAP) IPCSREF
using with remote users SFSAD	usage notes (dump) IPCSREF
LOCAL start-up parameter SFSAD	
LOCALID tag SFSAD	
See also local IDs	

locating	a storage group
a word in a string of words EXEC2	See DISABLE operator command
starting column of a word in another word	deadlocks ADGCMS
EXEC2	duration of ADGCMS
a phrase in a string SPIREF	explicit ADGCMS
a string in another string SPIREF	files and directories ADGCMS, CMSLOT,
CP control blocks in storage DIAG	PRIMER
data	files (SFS)
using a target XEDITUG	explicit locks CMSUG
using ALL XEDIT	implicit locks CMSUG
using CLOCATE XEDIT, XEDITUG	function <b>DIAG</b>
using CLOCATE in typewriter mode	implicit ADGCMS
XEDITUG	lasting ADGCMS
using LOCATE CMSLOT, XEDIT	options of XEDIT command CMSUG
information PRIMER	relationships ADGCMS
information in full-screen CMS CMSUG	session ADGCMS
of windows, changing CMSREF	the terminal keyboard CMSUG
server name, search sequence SRPI	types of ADGCMS
target, information CONPAO	locks
lock	creating
keyboard TERMREF	a SHARE lock CMSREF
keyboard, shift TERMREF	an EXCLUSIVE lock CMSREF
LOCK command ADMIN, RGOS	an UPDATE lock CMSREF
described SYSCMD	deleting CMSLOT, PRIMER, SFSAD
operands	on files and directories CMSUG
firstpage SYSCMD	duration CMSLOT, PRIMER
lastpage SYSCMD	during
MAP SYSCMD	a restore SFSAD
SYSSPOOL SYSCMD	FILEPOOL RESTORE SFSAD
SYSTEM SYSCMD	storage group backups SFSAD
userid SYSCMD	effect of DELETE PUBLIC on SFSAD
responses SYSCMD	EXCLUSIVE locks CMSUG
summary OPGDE, SYSCMD	on a directory CMSLOT, PRIMER
syntax diagram, class A SYSCMD	on a file CMSLOT, PRIMER
LOCK key CMSLOT, PRIMER	lasting CMSUG
LOCK option	LASTING lock CMSLOT, PRIMER
of EXTRACT XEDIT	maximum related to SFSAD
of XEDIT XEDIT	on file spaces SFSAD
LOCK parameter	on storage groups SFSAD
DMSOPDIR (SFS Open Directory)	QUERY FILEPOOL CONFLICT command
ADRCMS	SFSAD
lock request SFSAD	session CMSUG
locked pages option ADMIN, OPGDE	SESSION lock CMSLOT, PRIMER
locked shared pages	SHARE locks CMSUG
attached processor restriction <b>OPGDE</b>	on a directory CMSLOT, PRIMER
locking	on a file CMSLOT, PRIMER
a file space	spin
See DISABLE operator command	monitored in CP internal trace table
a shared file/directory ADRCMS	SYSCMD
and the second	O E O CATALO

status of	replacing one SFSAD
after DELETE ADMINISTRATOR SFSAD	tuning the size of SFSAD
after REVOKE ADMIN SFSAD	use of, when restoring control data SFSAD
terminal console SECUR	log on
UPDATE locks CMSUG	definition ADMIN, SYSMSG
on a directory CMSLOT, PRIMER	passwords
on a file CMSLOT, PRIMER	invalid SECUR
when to use CMSLOT, PRIMER	validation of SECUR
LOCKSAV (LOCK macro save area) DIAG	LOG option
LOCKWD macro GCSREF	in ISPF APGDE
	of NOTE command CMSREF
acquire parameter GCSREF	
description GCSREF	LOG service of ISPF APGDE
lock parameter GCSREF	LOGDATA parameter (APPC/VM)
release parameter GCSREF	ACCEPT (IUCV) function CONGREF
test parameter GCSREF	CONNECT (APPCVM) function CONGREF
lockword DIAG	logging
LOC = operand	in RACF SECUR
CMSSTOR OBTAIN ADRCMS	of messages CMSUG, PRIMER
LOG command, programmable operator	of warnings CMSUG, PRIMER
SFPROG	logging off APGDE, CMSLOT, CMSUG,
LOG control record, ZAP and ZAPTEXT service	PRIMER, TERMREF
programs	logging on APGDE, CMSLOT, INTRO,
format SERV	PRIMER, TERMREF
function SERV	a virtual machine GENCMD
parameters SERV	at a 3270-type terminal CMSUG
usage notes SERV	at other types of terminals CMSUG
log data CONGREF, SFSAD	SNA terminals TERMREF
See also log minidisks	VCNA TERMREF
•	virtual machine SYSCMD
log files PRIMER, SFPROG	
See also programmable operator facility	VSCS TERMREF
updating ADGCMS	LOGGING statement SFPROG
log messages TERMREF	See also programmable operator facility
log minidisks	logic element TERMREF
block size for SFSAD	logical
changing	bit operations
the location of SFSAD	BITAND SPIREF
the size of SFSAD	BITOR SPIREF
considerations for, when switching to	BITXOR SPIREF
NOBACKUP processing SFSAD	connections TERMREF
defining virtual device address for SFSAD	editing symbols
description of SFSAD	altering GENCMD
determining allocation for SFSAD	character delete GENCMD, SYSCMD
freeing space on SFSAD	controlling use of <b>GENCMD</b>
maximum size of SFSAD	defining GENCMD, SYSCMD
minimum recommended size of SFSAD	escape GENCMD, SYSCMD
moving to another physical device SFSAD	line delete GENCMD, SYSCMD
optimizing I/O to SFSAD	line end GENCMD, SYSCMD
placement of SFSAD	replacing directory entry SFPROG
recommended size for NOBACKUP SFSAD	line editing characters TERMREF
	line extended <b>XEDIT</b>
reformatting SFSAD	
relationship to control data backups SFSAD	operations SPIREF
replacing both SFSAD	

operator SFPROG, SPIUG	Logical Device Support Facility (LDSF)
action routine SFPROG	SFPROG
assigning, releasing, replacing SFPROG	description SFPROG
command SFPROG	implementing via DIAGNOSE code X'7C'
compared to the CP system operator	SFPROG
SFPROG	logical unit of work (LUW) SFSAD
default SFPROG	in SQL APGDE
NCCF or NetView SFPROG	logically connected terminal GENCMD
statement SFPROG	LOGmsg operand
processors CONGREF	of QUERY command SYSCMD
record	of QUERY (ALL) command GENCMD
APPC CMSMIG	of SET command SYSCMD
definition CONGREF	logo PRIMER, TERMREF
description CONGREF, SAACOM	logo screen, logging on from CMSUG
figure CONGREF	logoff TERMREF
length CONGREF	considerations with CPTRAP DIAG
Receive call SAACOM	definition ADMIN, SYSMSG
Send Data call SAACOM	forcing it for any system user SYSCMD
record length XEDITUG	LOGOFF command APGDE, CMSLOT,
defined XEDIT	CMSUG, GENCMD, PRIMER,
of CMS file, defaults used by CMS editor	TERMREF
CMSREF	described GENCMD
of FILEDEF command ADGCMS	operand
saved segment SFPROG	HOLD GENCMD
definition ADMIN, INST	operands
definition file SFPROG	FORCE ADMIN
definition file, updating SFPROG	responses GENCMD
DMSDAC INST	usage notes GENCMD
DMSSAC INST	logon
saving SFPROG	affinity setting effect GENCMD
updating SFPROG	automatic OPGDE
VMLIB INST	console for
screens XEDIT	MVS guest RGOS
multiple XEDITUG	VSE virtual machine RGOS
space SFSAD	error messages TERMREF
swapping ADMIN, SYSMSG	journaling function status set SYSCMD
tab stops defined XEDIT	logo PRIMER
units	manual OPGDE
See also LU 6.2	message CMSLOT
See also LU (logical unit)	automatic OPGDE
assigning CMSREF	manipulating with SET command
assigning in CMS/DOS ADGCMS	SYSCMD
ignoring assignments CMSREF	procedure CMSLOT, TERMREF
illustration SAACOM	hiding your password during GENCMD
listing CMSREF	LOGON command ADMIN, APGDE,
unassigning in CMS/DOS CMSREF	CMSLOT, CMSUG, GENCMD,
anassigning in Civis/DOS CivisREF	PRIMER. TERMREF
	A ANTIVERNA, A EXENTERENTE

described GENCMD

operands	DO FOREVER instruction SPIUG
NOIPL GENCMD	DO UNTIL instruction SPIUG
password GENCMD	DO WHILE instruction SPIUG
userid GENCMD	execution model SPIREF
password suppression ADMIN	infinite DIAG
responses GENCMD	checklist for reporting in a virtual machine
to contact VM/SP CMSUG	DIAG
usage notes GENCMD	checklist for reporting in CP DIAG
LOGON journaling	ITERATE instruction SPIUG
accounting records ADMIN	LEAVE instruction SPIUG
LOGON operand	leaving SPIUG
of SET command SYSCMD	modification of SPIREF
*LOGREC SFPROG	repetitive SPIREF, SPIUG
LOGREC area	skipping instructions SPIUG
getting starting address SFPROG	termination of SPIREF
reading SFPROG	loser, contention CONPAO
LOG1 ddname SFSAD	low address protection RGOS
LOG2 ddname SFSAD	LOWCASE option
log	of ASSGN command CMSREF
security SECUR	of COPYFILE command CMSREF
TSAF console CONPAO	of FILEDEF command CMSREF
log_data characteristic	LOWERCASE subcommand of XEDIT
possible values SAACOM	command APGDE, XEDIT, XEDITUG
set SAACOM	example of <b>XEDIT</b>
LOG_DATA parameter (APPC)	with DBCS strings XEDIT
of DEALLOCATE CONGREF	lowercase
of SEND_ERROR CONGREF	symbols SPIREF
LOKSAVE (DMKLOK save area) DIAG	letters, translating to uppercase
LONG option of NOTE command CMSREF,	with COPYFILE command CMSREF
CMSLOT, PRIMER	with PRINT command CMSREF
LONG VARCHAR data type in SQL	translating characters to XEDIT
COBOL APGDE	words and symbols GENCMD, SYSCMD
LONG VARGRAPH data type in SQL	LOWSAVE (debug save area) DIAG
COBOL APGDE	LPREFIX subcommand XEDIT
lookaside buffer EXEC2, SPIREF	example of <b>XEDIT</b>
looking at	in typewriter mode XEDITUG
a reader file PRIMER	lprt operand
at messages and warnings again PRIMER	described GENCMD, SYSCMD
at VM/SP through windows PRIMER	of BACKSPAC command SYSCMD
LOOP FAILURE code (keyword definition)	of DRAIN command SYSCMD
IPCSREF	of FLUSH command SYSCMD
LOOP operand of STAT command IPCSREF	of QUERY command SYSCMD
looping EXEC2	of REPEAT command SYSCMD
condition in virtual machine DIAG	of SEND command GENCMD
programs DIAG	of SPACE command SYSCMD
halting SPIREF	of START command SYSCMD
tracing SPIREF	of VARY command SYSCMD
loops DIAG	LRECL option
See also DO instruction	described GENCMD, SYSCMD
See also looping, programs	example of use INTRO
active SPIREF	of COPYFILE command CMSREF,
command ADGCMS	CMSUG
conditional SPIUG	of EDIT command CMSREF
control variable SPIUG	of EXTRACT XEDIT

description of SPIUG

of FILEDEF command APGDE, **CMSREF** of QUERY XEDIT of SET XEDIT of TRANSFER XEDIT LSCREEN option of EXTRACT XEDIT of OUERY XEDIT of TRANSFER XEDIT LSEG file type usage in CMS CMSUG LSEGMAP file type usage in CMS CMSUG LTO option SERV LTO tag, product parameter file SERV LU 6.2 and CPI communications SAACOM application programming interface SAACOM protocol CONPAO See also APPC (Advanced Program-to-Program Communication) verbs SAACOM LU (logical unit) CONGREF See also LU 6.2, protocol assigning in CMS/DOS ADGCMS description of CONPAO gateway CONPAO illustration SAACOM name CONPAO See also locally known LU name fully qualified CONPAO locally known name CONPAO LU name qualifier CONPAO

target LU CONPAO

for global/local resource CONPAO for outbound connection CONPAO for private resource CONPAO in APPCPASS directory statement **CONPAO** in communications directory entry **CONPAO** IUCV control statement CONPAO \*IDENT CONPAO \*USERID CONPAO representation of collection CONPAO luname operand described GENCMD, SYSCMD explained SYSCMD of LUNAME subcommand IPCSREF LUNAME subcommand of IPCSSCAN command description IPCSREF example output IPCSREF format IPCSREF functional category IPCSREF messages IPCSREF operands IPCSREF responses IPCSREF usage notes IPCSREF luname tag in communications directory CONGREF LUW (logical unit of work) SFSAD LU\_NAME parameter (APPC) of ALLOCATE CONGREF

name qualifier

M	PRINT option CMSREF
<b>™</b>	reading files created by ESERV program
M border command PRIMER	CMSREF
	REP function ADGCMS
M prefix subcommand of XEDIT command	REP option CMSREF
APGDE, PRIMER, XEDIT, XEDITUG	STACK option CMSREF
	TERM option CMSREF
example of XEDIT	XEDIT option CMSREF
practice exercise using XEDITUG	files
MACHEXIT macro GCSREF	creating CMSREF
clr parameter GCSREF	distributed with CMS system CMSREF
description GCSREF	specifying for assembly or compilation
ep parameter GCSREF	CMSREF
error parameter GCSREF	option
execute format GCSREF	of GLOBAL command CMSREF
list address format GCSREF	MACLIB file type APGDE
list format GCSREF	compressing APGDE
mf parameter GCSREF	displaying members of APGDE
name parameter GCSREF	examining contents of APGDE
set parameter GCSREF	extracting a member of
uword parameter GCSREF	manipulating members of APGDE
machine check handler (MCH) OPGDE	printing members of APGDE
error recording process <b>OPGDE</b>	system APGDE
errors, marking	usage in CMS CMSUG
degrade OPGDE	MACLIBS APGDE
hard <b>OPGDE</b>	adding a member ADGCMS
soft <b>OPGDE</b>	adding COPY files ADGCMS
machine check interrupts CMSMIG	CMS commands that recognize MACLIBs
See also Diagnosis Reference	ADGCMS
monitored in CP internal trace table	
SYSCMD	compressing ADGCMS, APGDE
overview ADGCMS	copying members ADGCMS
SVC interrupt ADGCMS	copying OS COBOL files from APGDE
See Diagnosis Reference	copying VSE macros INST
machine checks DIAG	creating ADGCMS
Vector Facility ADMIN	deleting a member ADGCMS
machine code CMSREF	displaying members of APGDE
machine configuration	examining contents of APGDE
requesting information SYSCMD	example ADGCMS extracting a member ADGCMS, APGDE
machine ID DIAG	for ISPF APGDE
machtype parameter of SELECT subcommand	
IPCSREF	in EXECs APGDE  LIBPDS statement APGDE
MACLIB command APGDE	
ADD function ADGCMS, CMSREF	listing contents ADGCMS
COMP function ADGCMS, CMSREF	manipulating members of APGDE member
DEL function ADGCMS, CMSREF	
description ADGCMS, CMSREF	changing name XEDIT
DISK option CMSREF	editing XEDIT
FIFO option CMSREF	moving members into other files ADGCMS
GEN function ADGCMS	printing members of APGDE
GEN option CMSREF	replacing a member ADGCMS
LIFO option CMSREF	system ADGCMS, APGDE
MAP function ADGCMS	updating with VMFMAC
MAP option CMSREF	EXEC description SERV
-	PUT/COR procedure SERV

using ADGCMS listing contents ADGCMS VSE assembler language restricted use in manipulating members of APGDE CMS/DOS ADGCMS moving members into other files ADGCMS MACLIST command description CMSREF concatenating CMSREF listing members of a MACLIB ADGCMS using in CMS CMSREF setting defaults CMSREF OSMACRO MACLIB, contents of ADGCMS, using ADGCMS **ADRCMS MACRO** OSMACRO1 MACLIB files created by ESERV program CMSREF non-simulated contents of ADGCMS, filetype APGDE **ADRCMS** adding to MACLIBs CMSREF simulated contents of ADGCMS, ADRCMS invalid records handled by MACLIB printing members of APGDE command CMSREF replacing a member ADGCMS system APGDE usage in CMS CMSUG macro libraries APGDE updating with VMFMAC See also system, MACLIBs **EXEC** description **SERV** adding a member ADGCMS PUT/COR procedure SERV adding COPY files ADGCMS using ADGCMS **CMS** VSE assembler language restricted use in adding to CMSREF CMS/DOS ADGCMS commands that recognize MACLIBs VSE, copying macros from CMSREF **ADGCMS** MACRO option compacting members of CMSREF of EXTRACT XEDIT creating CMSREF of QUERY XEDIT deleting members of CMSREF of SET XEDIT display information about members in of TRANSFER XEDIT **CMSREF** MACRO subcommand XEDIT, XEDITUG printing members CMSREF macros APGDE, SPIUG punching members CMSREF ABEND GCSREF replacing members of CMSREF ACB GCSREF compressing ADGCMS, APGDE ATTACH GCSREF copying members ADGCMS AUTHCALL GCSREF creating ADGCMS AUTHNAME GCSREF definitions AUTHUSER GCSREF in assembler listing CMSREF **BLDL GCSREF** in MACRO files CMSREF CALL GCSREF CHAP GCSREF deleting a member ADGCMS descriptions check, overriding with COMMAND XEDIT ADDENTRY SRPI CHECK GCSREF CPRB SRPI CLOSE GCSREF CSMRETCD SRPI **CLUSTER PLNGDE** DELENTRY SRPI CMDSI GCSREF SENDREQ SRPI CMS assembler displaying members of APGDE See macros, CMS assembler examining contents of APGDE CMSIUCV SFPROG example ADGCMS coding conventions ADRCMS extracting a member ADGCMS, APGDE COMMD ADMIN identifying ADGCMS CONFIG GCSREF identifying for assembly CMSREF CONTENTS GCSREF

Refer to the foldout page at the back of this book for a chart of abbreviations and their corresponding manuals.

CVT GCSREF removing copy from storage XEDIT DCB GCSREF reserving a line for use by **XEDIT** DCBD GCSREF scanning format of XEDIT declarative ADGCMS search order specified XEDITUG **DEFNUC PLNGDE** source string XEDITUG DELETE GCSREF subcommands used in XEDITUG DEO GCSREF XEDIT prefix macro XEDITUG DETACH GCSREF instruction, definition and example INTRO editor SPIREF instruction formats execute format GCSREF ENDREQ GCSREF **ENQ GCSREF** in GCS GCSREF ERASE GCSREF list address format GCSREF ESTAE GCSREF list format GCSREF EXECCOM GCSREF standard format GCSREF EXLST GCSREF interface FCB (forms control buffer) ADMIN See CMS (conversational monitor system), FLS GCSREF programming interface **IUCV SFPROG** FOB (font offset buffer) ADMIN FOBCCW ADMIN ACCEPT SFPROG advantages of using SFPROG formatting conventions GCSREF FREEMAIN GCSREF CONNECT SFPROG GCSLEVEL GCSREF DECLARE BUFFER SFPROG GENCB GCSREF DESCRIBE SFPROG GET GCSREF PURGE SFPROG GETMAIN GCSREF, RGOS **QUERY SFPROG** GTRACE DIAG, GCSREF QUIESCE SFPROG HNDIUCV SFPROG RECEIVE SFPROG **IDENTIFY GCSREF** REJECT SFPROG **IHASDWA GCSREF** REPLY SFPROG imperative ADGCMS RESUME SFPROG in XEDIT RETRIEVE BUFFER SFPROG SEND SFPROG argument string XEDITUG SET CONTROL MASK SFPROG avoiding name conflicts **XEDITUG** containing SET options, creating XEDIT SET MASK SFPROG controlling search order for XEDIT SEVER SFPROG creating XEDITUG terminology SFPROG TEST COMPLETION SFPROG cursor position XEDITUG definition of XEDITUG TEST MESSAGE SFPROG **IUCVCOM GCSREF** deoptimizing **XEDIT** examples of XEDITUG **IUCVINI GCSREF** executing XEDITUG language XEDITUG LINK GCSREF executing alphanumeric macro name XEDIT LOAD GCSREF executing without subcommand or synonym LOCKWD GCSREF check XEDIT MACHEXIT GCSREF file identifier XEDITUG MODCB GCSREF NAMELANG PLNGDE handling blocks **XEDITUG** information passed XEDITUG NAMENCP ADMIN, PLNGDE NAMESYS ADMIN, PLNGDE list of optimized XEDIT optimizing **XEDIT** NAME3800 ADMIN, PLNGDE NOTE GCSREF prefix XEDITUG OPEN ADGCMS, GCSREF profile XEDITUG PSPACE SERV OS APGDE

OS/MVS ADGCMS conversion checklist CMSMIG ESPIE macro CMSMIG **GETMAIN** macro conversion considerations CMSMIG SPIE macro CMSMIG summary of support CMSMIG PGLOCK GCSREF PGULOCK GCSREF POINT GCSREF POST GCSREF print buffers PIB ADMIN PIBCCW ADMIN **PUT GCSREF** RCHANNEL ADMIN, PLNGDE, RGOS RCTLUNIT ADMIN, PLNGDE RDEVICE ADMIN coding for remote 3270s PLNGDE coding for 3704/3705/3725 communications controller PLNGDE coding for 3800 image library PLNGDE coding for 3880 storage subsystem **PLNGDE** READ GCSREF RETURN GCSREF return code placement ADRCMS RIOGEN PLNGDE RPL GCSREF SAM ADGCMS SAVE GCSREF SCHEDEX GCSREF SDUMP GCSREF SEGMENT GCSREF SETRP GCSREF sharing editor ADMIN SHOWCB GCSREF STIMER GCSREF supervisor ADGCMS SYNADAF GCSREF SYNADRLS GCSREF SYNCH GCSREF SYSACNT ADMIN SYSCOR ADMIN SYSJRL ADMIN SYSMIH ADMIN SYSMON ADMIN SYSOWN PLNGDE SYSPAG ADMIN, PLNGDE

SYSRES PLNGDE System Product Editor APGDE SYSXSTOR ADMIN, PLNGDE TASKEXIT GCSREF TERMINAL PLNGDE TESTCB GCSREF TIME GCSREF TTIMER GCSREF UCC ADMIN UCCCCW ADMIN UCS (universal character set) ADMIN UCSCCW ADMIN VALIDATE GCSREF VSAM, supported under CMS ADGCMS VSE assembler language macros supported in CMS ADGCMS VSE macros supported by CMS/DOS **ADGCMS** WAIT GCSREF WRITE GCSREF WTO GCSREF WTOR GCSREF XCTL GCSREF 3704/3705/3725 communications controllers **PLNGDE** macros, CMS assembler AMODESW macro description of CMSMIG general formats CMSMIG APPLMSG macro CMSMIG CMSCALL macro call charts CMSMIG comparison to SVC 202 CMSMIG description of CMSMIG CMSIUCV macro CMSMIG CMSRET macro CMSMIG CMSSTOR macro comparison to DMSFREE and DMSFRET **CMSMIG** general formats CMSMIG compatibility interface macros CMSMIG CONSOLE macro CMSMIG CSLENTRY macro CMSMIG CSLEXIT macro CMSMIG CSLGETP macro CMSMIG DMSFREE macro CMSMIG comparison to CMSSTOR CMSMIG

example of use ADMIN

DMSFRES macro CMSMIG

DMSFRET macro CMSMIG	MAINT PLNGDE, RGOS
comparison to CMSSTOR CMSMIG	MAINT user ID SFSAD
ENABLE macro	directories owned by SFSAD
comparison to SSM instruction CMSMIG	minidisks and SFS directories used for
description of CMSMIG	service SERV
FSREAD macro CMSMIG	minidisks reserved for INST
FSSTATE macro CMSMIG	role of, in VMSYS file pool SFSAD
FSWRITE macro CMSMIG	role of, in VMSYSU file pool SFSAD
GETSID macro CMSMIG	SFS directories reserved for INST
HNDEXT macro CMSMIG	maintenance example
HNDINT macro CMSMIG	hardware maintenance directory entry
HNDIO macro CMSMIG	PLNGDE
HNDIUCV macro CMSMIG	MAINTLVL (keyword definition) IPCSREF
HNDSVC macro CMSMIG	major node RGOS
interfaces that do not support 31-bit	major SACBs fields DIAG
addressing CMSMIG	MAKEBUF command APGDE, SPIUG
I/O support CMSMIG	description CMSREF
new and changed macros CMSMIG	return code effect on &ERROR statement
NUCEXT macro CMSMIG	CMSREF
PARSECMD macro CMSMIG	making
preferred interface macros CMSMIG	a file pool available to a TSAF collection
PUNCHC macro CMSMIG	SFSAD
RDCARD macro CMSMIG	
RDTAPE macro CMSMIG	copies of output files SYSCMD
SCAN macro CMSMIG	management of data IPCSREF
SEGMENT macro	of problems IPCSREF
comparison to DIAGNOSE X'64'	directory ADMIN
CMSMIG	managers, private resource CMSMIG
general formats CMSMIG	managing
SUBCOM macro CMSMIG	files CMSLOT
SUBPOOL macro CMSMIG	gateways CONPAO
System/370 compatibility considerations	global/local resource CONPAO
ENABLE macro CMSMIG	private resource CONPAO
using for I/O CMSMIG	saved systems and saved segments ADMIN
WRTAPE macro CMSMIG	users SFSAD
370-XA toleration considerations	your file space CMSUG
ENABLE macro CMSMIG	your minidisks CMSUG
MACS record, control file	manipulating
format SERV	members of a MACLIB ADGCMS
function SERV	spool files SYSCMD
parameters SERV	the program stack SPIUG
magnetic tape	mantissa SPIUG
device INTRO	manual
VM under VM RGOS	invocation of the programmable operator
VSE RGOS	SFPROG
MAIN operand	logon operator <b>OPGDE</b>
of SET command SYSCMD	monitoring using tape SYSCMD
main storage INTRO	alternate path recording SYSCMD
See also real storage	end-of-tape condition SYSCMD
allocation of SECUR	intitial program load SYSCMD
main user area APGDE	I/O devices SYSCMD
main variables exceptions in SQL FORTRAN	shutdown SYSCMD
APGDE	suspension SYSCMD
MAINHIGH	system failure SYSCMD
conversion considerations CMSMIG	unrecoverable tape error SYSCMD

MANUAL operand MAP file type APGDE MAPA operand of GDISPLAY subcommand of START command SYSCMD **IPCSREF** MAP filetype created by DOSLIB command CMSREF MAPA subcommand of IPCSSCAN created by DSERV command CMSREF command created by LOAD command CMSREF description IPCSREF example output IPCSREF created by MACLIB command CMSREF MAP option format IPCSREF of DOSLIB command CMSREF functional category IPCSREF of GENMOD command CMSREF messages IPCSREF of INCLUDE command CMSREF operand IPCSREF of LKED command CMSREF response IPCSREF of LOAD command CMSREF usage notes IPCSREF of MACLIB command CMSREF MAPN operand of GDISPLAY subcommand MAP storage allocations OPGDE **IPCSREF** MAP command DIAG MAPN subcommand DIAG description IPCSREF MAPN subcommand of IPCSSCAN command format IPCSREF description IPCSREF messages IPCSREF example output IPCSREF of DMS/CMS APGDE format IPCSREF operands IPCSREF functional category IPCSREF responses IPCSREF messages IPCSREF usage notes operand IPCSREF AVS dump IPCSREF response IPCSREF usage notes IPCSREF CMS dump IPCSREF CP dump IPCSREF MAPPED conversation type CONGREF GCS dump IPCSREF mapped conversations CMSMIG, general IPCSREF **CONGREF, SAACOM** other dumps IPCSREF mapping between APPC/VM and APPC parameters SFS dump IPCSREF TSAF dump IPCSREF and conditions CONGREF map compressing routine DIAG file pool error information ADRCMS map file type usage in CMS CMSUG macro MAP files for CMSLEVEL ADRCMS created by DOSLKED command ADGCMS for directory buffer ADRCMS created by DSERV command ADGCMS for exist buffer ADRCMS PRELOAD utility program SERV for SGMTEXIT ADRCMS MAP function of MACLIB command APGDE for SHVBLOCK ADRCMS DISK option APGDE of buffers PRINT option APGDE for DMSQLIMA routine SFSAD TERM option APGDE of DMSRDCAT routine SFSAD MAP function of TXTLIB command APGDE virtual to real storage INTRO DISK option APGDE work unit error information ADRCMS PRINT option APGDE maps TERM option APGDE created by DOSLIB command CMSREF MAP operand created by GENMOD command CMSREF of GENMOD command DIAG created by LOAD command CMSREF created by MACLIB command CMSREF of LOAD command DIAG linkage editor in CMS/DOS CMSREF of LOCK command SYSCMD of LKED command APGDE TSAF load CONPAO

MAP_NAME SAACOM	number of sessions for gateway CONPAO
markup CMSLOT, PRIMER	spool files <b>OPGDE</b>
MASK event-type	storage size INTRO
of PER command GENCMD	maximums SFSAD
mask line	increasing by regeneration SFSAD
changing XEDIT	4K blocks per user SFSAD
defining XEDIT	MAXPP operand
MASK operand	of QUERY command SYSCMD
of EXTRACT XEDIT	of SET command SYSCMD
of QUERY XEDIT	MAXSIZE operand
of SET XEDIT	of SET command SYSCMD
of SETCMASK CONGREF	MAXUSERS control statement SFSAD
of SETMASK CONGREF	MAXUSERS value SFSAD
of TRANSFER XEDIT	estimating SFSAD
masking password	increasing SFSAD
during logon GENCMD	meaning of SFSAD
using TERMINAL command GENCMD	recommended value for SFSAD
mass storage control (MSC)	specifying during generation SFSAD
communicating with <b>OPGDE</b>	MAXWSS operand
mass storage system (MSS)	of QUERY command SYSCMD
See MSS (mass storage system)	of SET command SYSCMD
master catalog sharing ADGCMS	MCALL option of ASSEMBLE command
	CMSREF
master catalog (VSAM)	
identifying in CMS/DOS CMSREF	MCH (machine check handler) OPGDE
identifying (OS VSAM) CMSREF	MCKOPSW (CMS machine check old PSW)
master file directory CMSUG	DIAG
contents of CMSREF	MCOPSW (machine check old PSW) DIAG
MAX function SPIREF, SPIUG	MCU (Multisystem Communication Unit)
MAX function of SQL APGDE	coding RDEVICE macro PLNGDE
MAXCONN values	MDA tag, product parameter file SERV
for administration machines SFSAD	MDISK directory control statement INTRO,
for file pool users SFSAD	SFPROG
for server machines SFSAD	adjustment to, when removing from file pool
monitoring SFSAD	SFSAD
MAXDISKS control statement SFSAD	example PLNGDE
MAXDISKS value SFSAD	for a server work minidisk SFSAD
estimating SFSAD	for file pool control minidisk SFSAD
increasing SFSAD	for file pool minidisks SFSAD
meaning of SFSAD	MVS guest RGOS
monitoring SFSAD	operands PLNGDE
recommended value for SFSAD	blkr <b>PLNGDE</b>
specifying during generation SFSAD	blks <b>PLNGDE</b>
MAXIMIZE WINDOW command CMSUG	cylr PLNGDE
description CMSREF	cyls PLNGDE
format CMSREF	devtype PLNGDE
messages CMSREF	mode PLNGDE
operands	pm PLNGDE
wname CMSREF	pr <b>PLNGDE</b>
= (equal sign) CMSREF	pw PLNGDE
usage notes CMSREF	T-DISK PLNGDE
maximizing a window size to the physical	vaddr <b>PLNGDE</b>
screen size CMSREF	volid PLNGDE
maximum	use with 3380 ADMIN
data items on minidisk INTRO	VSE RGOS

MDKnnnnn ddname SFSAD merging (SNA service) multiple PTFs, example SERV measuring system performance ADMIN single PTF, example SERV media failures allowing partial file pool access after merging collection **SFSAD** resource management in CONPAO recovering from SFSAD revoking gateways in **CONGREF** member of a MACLIB revoking resources in CONGREF merging sets of lines XEDIT changing name **XEDIT** editing XEDIT message APGDE, DIAG MEMBER option abbreviations used in SYSMSG of EXTRACT XEDIT after IPL TERMREF after LOGOFF TERMREF of FILEDEF command ADGCMS, APGDE. CMSREF after logon TERMREF of PRINT and TYPE commands APGDE ASMGEND SERV of PRINT command CMSREF APPC/VM VTAM (AVS) SYSMSG at secondary user console SFSAD of PUNCH command CMSREF of QUERY XEDIT class indicator in full-screen CMS CMSUG of XEDIT XEDIT CMS SYSMSG membername, variable CMS EDIT SYSMSG described GENCMD, SYSCMD CMS ready message TERMREF MEMO file type CMSUG **CMSGEND SERV** for documentation CMSUG console memory after VM/SP HPO initialization OPGDE accessing SPIREF controlling finding upper limit of SPIREF display of XEDITUG memos INTRO informational GENCMD menu transmission of GENCMD changing CMSUG whether you receive them CMSUG component CMSUG CP SYSMSG creating CMSUG data transfer, IUCV SFPROG example, of creation CMSUG **DEBUG SYSMSG** for HELP PRIMER, XEDIT definition CONGREF, INTRO, PRIMER for interactive environment INTRO displaying full screen SPIUG at your terminal ADGCMS, SYSMSG task CMSUG, XEDIT controlled by SET MSGMODE XEDIT menu input field (ZCMD) APGDE in command line XEDIT, XEDITUG merge XEDITUG on message line using EMSG XEDIT Merge Disk (SNA service) on message line using MSG XEDIT definition SERV in other languages SYSMSG Merge Log (SNA service) on editor screen XEDITUG contents SERV when logging on CMSUG definition SERV **DMKMSS** example SERV mass storage system **OPGDE** merge processing, VMFREC EXEC SERV DMSEXE085E EXEC2 MERGE subcommand of XEDIT command DMSEXE175E EXEC2 APGDE, XEDIT DMSEXE255T EXEC2 example of **XEDIT** DROP ... TERMREF MERGE tag, product parameter file SERV

Refer to the foldout page at the back of this book for a chart of abbreviations and their corresponding manuals.

error TERMREF, SPIREF, XEDITUG output format, programmable operator after SET PF TERMREF **SFPROG** during logon TERMREF PRELOAD SERV examples TERMREF preventing receipt of CMSLOT NOT ACCEPTED TERMREF RCTLUNIT macro UNKNOWN ... TERMREF channel errors PLNGDE Vector Facility APGDE **RDEVICE** macro facility, invoking ADRCMS control unit errors PLNGDE unit record errors PLNGDE using APPLMSG macro ADRCMS for the 3990 storage control models 1, receiving special GENCMD 2 and 3 ADMIN receiving warning GENCMD for virtual machine users **OPGDE** replying to GCSREF format of SYSMSG repository from CMS batch facility CMSUG AVS CONPAO GCS SYSMSG CMS, updating ADMIN, SFPROG graphic TERMREF CP SFPROG graphic status TERMREF CP, DASD space for SFPROG handling error **GENCMD** CP, saving SFPROG hardware and program status OPGDE CP, updating ADMIN, SFPROG **HELP CMSUG** retrieving a message from ADRCMS TSAF CONPAO high-priority transmitting SYSCMD updating ADMIN, SFPROG identification XEDIT repository files ADGCMS **IUCV SFPROG** checking for syntax errors CMSREF identifiers compiling CMSREF displaying SYSMSG converting into internal form CMSREF message number SYSMSG example of compiling CMSREF module code SYSMSG loading a message repository CMSREF prefix SYSMSG output files from conversion CMSREF severity code SYSMSG retrieving from a buffer ADGCMS text of SYSMSG return codes EXEC2 type code SYSMSG reviewing PRIMER importance of SFSAD sending CMSLOT, PRIMER in full-screen CMS CMSUG before logging on TERMREF in output display area TERMREF to other virtual machine users CMSUG. in status area TERMREF GENCMD, SYSCMD in typewriter mode XEDITUG to system operator INTRO, GENCMD, information XEDITUG **SYSCMD** IPCS SYSMSG severity of XEDIT issued from a macro XEDITUG special SYSMSG **IUCV SFPROG** spooling, to a DASD file TERMREF line PRIMER status PRIMER changing location XEDITUG status messages TERMREF defining display features **XEDITUG** status notice PRIMER location on screen XEDITUG suppressing SFSAD log file for PRIMER FILE NOT FOUND SPIUG logging CMSUG from CMS commands SPIUG logon OPGDE from CP commands SPIUG MIH ADMIN syntax conventions SYSMSG network PRIMER abbreviations SYSMSG numbers size CONGREF description of SYSMSG syntax CONPAO displaying SYSMSG system INTRO online HELP for CONPAO

System Product Editor SYSMSG to system operator SVC 76 OPGDE translated SYSMSG transmitting TERMREF TSAF SYSMSG turning off PRIMER versus input TERMREF VMFASM SERV VMFHASM SERV VMFLKED SERV VMFLOAD SERV VMFMAC SERV VMFMERGE SERV VMFNLS SERV VMFPLC2 SERV VMFREMOV SERV VMFTXT SERV VMFZAP SERV VM/SP TERMREF warning PRIMER example XEDITUG issued by QUIT XEDIT when display screen is full CMSUG without special headers sent to users SYSCMD XEDIT, displaying SPIUG **3880 ADMIN** 3880 hardware error ADMIN Message All System Service SFPROG MESSAGE command ADMIN, CMSUG class A, B SYSCMD described GENCMD, SYSCMD operands ALL SYSCMD msgtext GENCMD, SYSCMD OPERATOR GENCMD, SYSCMD userid GENCMD, SYSCMD \* GENCMD, SYSCMD responses GENCMD, SYSCMD summary OPGDE, SYSCMD syntax diagram, class A or B SYSCMD usage notes GENCMD, SYSCMD message complete external interrupt, IUCV **SFPROG** MESSAGE FAILURE code (keyword definition) IPCSREF

MESSAGE function of SPOOL system service **SFPROG** message libraries (ISPMLIB) APGDE MESSAGE LOGFILE CMSUG, PRIMER MESSAGE operand of HELP command CMSREF message pending external interrupt, IUCV **SFPROG** message pending interrupt CONGREF format CONGREF Message System Service INTRO, SFPROG establishing communications SFPROG MESSAGE virtual screen PRIMER MESSAGE window PRIMER dropping CMSUG popping CMSUG using to edit names file CMSUG viewing messages CMSUG MFASAVE (DMKMCT save area) DIAG MF = L parameter ACCEPT function CONGREF ACCEPT (CMSIUCV) function CONGREF CLR (clear) function CONGREF CONNECT CONGREF of DCLBFR CONGREF of RECEIVE CONGREF of SENDCNF CONGREF of SENDCNFD CONGREF of SENDDATA CONGREF of SENDERR CONGREF of SETCMASK CONGREF of SETMASK CONGREF of SEVER CONGREF of TESTCMPL CONGREF Mhexloc operand of STCP command SYSCMD Mhexloc1 operand of DCP command SYSCMD of DMCP command SYSCMD microcode assist, running with active using CPTRAP DIAG MIGRATE command ADMIN described SYSCMD example of use INTRO operands userid SYSCMD \* SYSCMD responses SYSCMD summary OPGDE, SYSCMD

Refer to the foldout page at the back of this book for a chart of abbreviations and their corresponding manuals. syntax diagram, class A SYSCMD

migration	read-only restrictions on access CMSMIG
APPC/VM programs CMSMIG	SFS routines to update existing files
considerations	CMSMIG
CPTRAP DIAG	CMS commands on SFS files
Paging Storage ADMIN	ACCESS CMSMIG
when changing command access ADMIN	COPYFILE CMSMIG
definition INST	ERASE CMSMIG
demand page ADMIN	FINIS CMSMIG
during installation INST	QUERY DISK CMSMIG
from EDIT to XEDIT XEDIT	QUERY SEARCH CMSMIG
of spool files INST	RENAME CMSMIG
operation ADMIN	STATEW/ESTATEW CMSMIG
over, problems related to ADMIN	STATE/ESTATE CMSMIG
page ADMIN	XEDIT CMSMIG
establishing a hierarchy ADMIN	coexistence CMSMIG
managing ADMIN	existing programs on non-shared SFS files
problems	CMSMIG
investigating ADMIN	
	existing programs on SFS files CMSMIG
summary of ADMIN	existing programs on shared SFS files
process INTRO	changing for files shared through aliases  CMSMIG
rate too high ADMIN	
rates ADMIN	changing for new return codes CMSMIG
routines, page/swap table	changing for reading shared files that are
beginning SYSCMD	locked CMSMIG
selecting the next virtual machine for	replacing shared files CMSMIG
ADMIN	exploitation CMSMIG
setting the age criterion for ADMIN	modifying programs that replace SFS files
Shared File System	COPYFILE or DMSFILEC CMSMIG
See migration, SFS (Shared File System)	FSOPEN macro with
specifying how full paging areas must be before	OPENTYPE = REPLACE CMSMIG
ADMIN	SFS routines CMSMIG
stages, overview of CMSMIG	temporary, private files CMSMIG
swap set ADMIN	new and changed return codes CMSMIG
System/370 compatibility	non-SFS statements or macros on SFS files
conversion checklist CMSMIG	determining which method you should use
definition of CMSMIG	CMSMIG
general considerations CMSMIG	EXECIO command on SFS files CMSMIG
to full-screen CMS CMSUG	FS macros on SFS files CMSMIG
under	high-level language statements on SFS files
problems related to ADMIN	CMSMIG
370-XA exploitation	mixing SFS and non-SFS statements
definition of CMSMIG	CMSMIG
general considerations CMSMIG	OS and DOS macros on SFS files CMSMIG
370-XA toleration	non-shared SFS files, usig existing programs
definition of CMSMIG	CMSMIG
general considerations CMSMIG	replacing shared files CMSMIG
migration, SFS (Shared File System)	return codes, new and changed CMSMIG
accessing files in SFS directories	SFS file storage space CMSMIG
alias to update existing files CMSMIG	avoiding an unwanted roll back of updates
alternatives for read-only restrictions on	CMSMIG
access CMSMIG	CMS commands CMSMIG
COPYFILE and XEDIT to update existing	DOS simulation CMSMIG
files CMSMIG	FS macros CMSMIG
	OS simulation CMSMIG

Shared File System coexistence CMSMIG diagnostic aids ADMIN Shared File System exploitation CMSMIG macro notes ADMIN accessing SFS directories CMSMIG messages ADMIN atomic requests CMSMIG trace table ADMIN collecting SFS error information CMSMIG VM/SP HPO system's error recording committing and rolling back changes area ADMIN **CMSMIG** macro notes ADMIN creating aliases to SFS files CMSMIG status ADMIN deciding to use an alias, access, or direct system error recording area ADMIN reference CMSMIG timer intervals PLNGDE design considerations CMSMIG trace table ADMIN direct file reference CMSMIG use of ADMIN DMSABN to perform recovery operations MIN function SPIREF **CMSMIG** MIN function of SQL APGDE explicit locking for SFS files and directories MIN operand **CMSMIG** of MONITOR command SYSCMD granting authority for SFS files and mini-dumps SFSAD directories CMSMIG minidisks APGDE handling unexpected conditions in the Shared See also disk File System CMSMIG access mode required SFSAD implicit locking for SFS files and directories access to INTRO **CMSMIG** accessing APGDE locking SFS files and directories CMSMIG adding to the file pool SFSAD block size of SFSAD name definitions (namedefs) CMSMIG performing recovery operations CMSMIG caching performing SFS directory I/O CMSMIG MINIOPT control statement ADMIN performing SFS file I/O CMSMIG clearing SECUR removing authority for shared files and concept INTRO directories CMSMIG copying to minidisk from tape CMSUG SFS file space CMSMIG counting cylinders on CMSREF sharing SFS files CMSMIG defined in VM/SP directory entry CMSUG temporary space CMSMIG defining in directory PLNGDE threshold warnings CMSMIG work units in application programs in directory, examples PLNGDE **CMSMIG** primary access mode PLNGDE shared SFS files, using existing programs defining maximum number of SFSAD defining temporary minidisks for terminal **CMSMIG** session CMSUG MIH option defining in directory PLNGDE definition ADMIN, CMSUG, SYSMSG description INTRO MIH (missing interrupt handler) ADMIN changing interval values ADMIN devices containing default interval values ADMIN limits to detaching SYSCMD definition ADMIN, SYSMSG directory determining interval values ADMIN overlapping extents **PLNGDE** devices monitored ADMIN displaying status CMSUG erasing files from CMSUG extensions CMSUG extents ADGCMS

file directory of ADMIN

formatting AFGDE	operands
full, recovering from in editing session	wname CMSREF
CMSUG	= (equal sign) CMSREF
how defined INTRO	usage notes CMSREF
how much space is used CMSUG	minimizing seek time for log minidisks SFSAL
information, obtaining ADRCMS	MINIOPT directory control statement
initializing INTRO, RGOS, SFPROG	for the 3990 storage control models 1,
initializing for file pools SFSAD	2 and 3 ADMIN
I/O (input/output) ADMIN	operands PLNGDE
link mode, replacing directory entry SFPROG	CACHE PLNGDE
linking CMSUG	MDC PLNGDE
managing CMSUG	NOCACHE PLNGDE
master file directory CMSUG	NOMDC PLNGDE
maximum data items INTRO	use with 3380 ADMIN
maximum number per storage group SFSAD	MINNUMSS operand
MDISK control statements for SFSAD	of QUERY command SYSCMD
moving contents to an SFS directory SFSAD	of SET command SYSCMD
multiple password, replacing directory entry	minor SACBs fields DIAG
SFPROG	MINPROMPT option
password requirements for SFSAD	of DISK command CMSREF
placement considerations for SFSAD	minus operator SPIUG
providing for CMS batch virtual machine	minus sign used to LOCATE backward
CMSUG	CMSLOT
query status of CMSUG	minutes calculated from midnight SPIREF
querying accessed CMSUG	MINWS operand
read password, replacing directory entry	of QUERY command SYSCMD
SFPROG	of SET command ADMIN, SYSCMD
read-only extensions CMSUG	MINWS, CP SET command RGOS
releasing CMSUG	miscellaneous devices
removing from a file pool SFSAD	shared or nonshared VCU mode PLNGDE
replacing SFSAD	missing interrupt handler (MIH)
restriction on using EXPORT/IMPORT with	See MIH (missing interrupt handler)
VSAM ADGCMS	mistakes, correcting PRIMER
restrictions PLNGDE	MITIME operand
search order CMSUG	of QUERY command SYSCMD
shared, EDF R/O ADMIN	of SET command SYSCMD
sharing CMSUG, INTRO, RGOS	mixed case CMSLOT, PRIMER
sharing, commands used CMSUG	data EXEC2
temporary ADGCMS	specified XEDIT
transporting to OS system after using with	mixed DASD
CMS VSAM ADGCMS	CP directory considerations INST
using with VSAM data sets ADGCMS	DMKSNT considerations INST
virtual device address considerations for	mixed environment use of the programmable
SFSAD	operator SFPROG
volume labels for SFSAD	MIXED option in SET CASE CMSLOT,
write password, replacing directory entry	PRIMER
SFPROG	MIXED = statement of DIRMAINT DATA
writing a CMS file to CMSUG	file (DIRMAINT) ADMIN
writing CMS files to CMSUG	MLhexloc operand
MINIMIZE WINDOW command CMSUG	of STCP command SYSCMD
description CMSREF	MLhexloc1 operand
format CMSREF	of DCP command SYSCMD
messages CMSREF	of DMCP command SYSCMD
$\boldsymbol{\varepsilon}$	

MLOGIC option of ASSEMBLE command address parameter GCSREF **CMSREF** area parameter GCSREF MM prefix command PRIMER arealen parameter GCSREF mmm, variable arg parameter GCSREF described GENCMD, SYSCMD bufnd parameter GCSREF bufni parameter GCSREF mnemonics Vector Facility instructions bufsp parameter GCSREF response to tracing GENCMD ddname parameter GCSREF tracing **GENCMD** description GCSREF **MNOTES** ecb parameter GCSREF MIH (missing interrupt handler) ADMIN eodad parameter GCSREF responses SYSMSG exist parameter GCSREF SYSXSTOR macro PLNGDE irnad parameter GCSREF **3880 ADMIN** keylen parameter GCSREF MN000 monitor records ADMIN 1 parameter GCSREF MN001 monitor records ADMIN lerad parameter GCSREF MN002 monitor records ADMIN macrf parameter GCSREF MN003 monitor records ADMIN marea parameter GCSREF MN004 monitor records ADMIN mlen parameter GCSREF MN005 monitor records ADMIN modify an exit list at execution time MN006 monitor records ADMIN **GCSREF** MN007 monitor records ADMIN modify certain fields in an ACB GCSREF MN097 monitor records ADMIN modify certain fields in an RPL GCSREF MN098 monitor records ADMIN n parameter GCSREF MN099 monitor records ADMIN nxtrpl parameter GCSREF MN10n monitor records ADMIN opted parameter GCSREF MN20n monitor records ADMIN passwd parameter GCSREF MN30X monitor records ADMIN reclen parameter GCSREF MN300 monitor records ADMIN rpl parameter GCSREF MN301 monitor records ADMIN strno parameter GCSREF MN303 monitor records ADMIN synad parameter GCSREF MN304 monitor records ADMIN MODCB operand notation GCSREF MN305 monitor records ADMIN mode MN400 monitor records ADMIN addressing MN401 monitor records ADMIN See addressing MN500 monitor records ADMIN defined TERMREF MN600 monitor records ADMIN edit and input CMSUG MN602 monitor records ADMIN name CONGREF, CONPAO MN603 monitor records ADMIN entry in communications directory MN604 monitor records ADMIN **CONPAO** MN605 monitor records ADMIN table, defining CONPAO MN606 monitor records ADMIN of input APGDE MN607 monitor records ADMIN of operation for MVS guest RGOS MN700 monitor records ADMIN setting with CP TERMINAL command MN802 monitor records ADMIN **CMSUG** MODCB macro instruction GCSREF switching CMSUG, TERMREF MODCB macro (VSAM) GCSREF virtual machine architecture a parameter GCSREF modes supported CMSMIG setting architecture mode of CMSMIG acb parameter GCSREF

Refer to the foldout page at the back of this book for a chart of abbreviations and their corresponding manuals.

MODE operand	existing programs that replace SFS files
of LINK command GENCMD	CMSMIG
of MONITOR command SYSCMD	SET values XEDIT
of SET command SYSCMD	spooling control options GENCMD
of SPTAPE command SYSCMD	storage GENCMD
of TERMINAL command GENCMD	tab settings XEDITUG
MODEL operand	virtual device attributes <b>GENCMD</b>
of RDEVICE macro PLNGDE	3800 named system ADMIN
of TERMINAL macro PLNGDE	MODIFY = operand
MODEL statement in ISPF panels APGDE	CMSCALL macro ADRCMS
model	MODMAP command DIAG
device SFPROG	described CMSREF
138 Display Console TERMREF	modulator/demodulator TERMREF
148 Display Console TERMREF	module
158 Display Console TERMREF	address, AVS, displaying IPCSREF
168 Display Console TERMREF	CMS
3704/3705 communications controllers	generating from text files SERV
PLNGDE	rebuilding SFS load modules SERV
model classes, types, and features of devices	rebuilding with CMSGEND SERV
(DIAGNOSE code X'24') SFPROG	code, description of SYSMSG
modem TERMREF	CP, address where loaded SERV
modename tag in communications directory	DOS/VSE relocatable, copying into CMS
CONGREF	files ADGCMS
mode, variable	entry point ADRCMS
described GENCMD, SYSCMD	exit code ADRCMS
mode_name characteristic	generating and executing ADGCMS,
extract SAACOM	PRIMER
length SAACOM	relocatable modules ADGCMS
possible values SAACOM	restricting a module to a particular mode
set SAACOM	ADGCMS
MODE_NAME parameter (APPC)	saving historic information for a module
of ALLOCATE CONGREF	ADGCMS
mode_name SNASVCMG	specifying a residency mode for a module
Allocate call SAACOM	ADGCMS
LU services program SAACOM	specifying an addressing mode for a module
Set_Mode_Name call SAACOM	ADGCMS
MODIFY macro XEDIT	transient modules ADGCMS
example of <b>XEDIT</b>	interfaces, IPCS IPCSREF
MODIFY name operand	IPCS line writer interface IPCSREF
of CHANGE command GENCMD	IPCS trace entry formatter interface
of SPOOL command GENCMD	IPCSREF
MODIFY operand	IPCSSCAN scroll interface IPCSREF
of CHANGE command SYSCMD	time zone adjustment IPCSREF
of LOADLIB command CMSREF	load map DIAG
MODIFY TABS XEDITUG	name, AVS, displaying IPCSREF
MODIFY USER command	rebuilding
instructions for using SFSAD	CMS SERV
reference information for SFSAD	CP SERV
modifying .	IPCS SERV
a file, precautions when SPIUG	TSAF SERV
accounting routines ADMIN	relocatable ADGCMS
channel program SFPROG	link-editing in CMS/DOS ADGCMS
CMS files, commands to use CMSUG	
conversation characteristics SAACOM	

See also set calls

1 0 0 0 0	
transient ADGCMS	class two records
updating with VMFASM SERV	MN20n ADMIN
updating with VMFHASM SERV	class zero records
VSE, link-editing CMSREF	MN000 ADMIN
with ISPF APGDE	MN001 ADMIN
MODULE file INTRO	MN002 ADMIN
creating CMSREF	MN003 ADMIN
debugging CMSREF	MN004 ADMIN
format CMSREF	MN005 ADMIN
generating CMSREF	MN006 ADMIN
loading into storage for execution	MN007 ADMIN
CMSREF	MN097 ADMIN
mapping CMSREF	MN098 ADMIN
VSE, link-editing CMSREF	MN099 ADMIN
MODULE file type usage in CMS CMSUG	codes for tape header, trailer, and data
MODULE keyword of SYMPTOM	suspension ADMIN
subcommand IPCSREF	collection mechanism ADMIN
MODULE (keyword definition) IPCSREF	considerations ADMIN
monitor	because of differences in scheduler
APPLDATA class records ADMIN	ADMIN
class A records ADMIN	DASTAP class records ADMIN
*MN802* ADMIN	data
class eight records ADMIN	Vector Facility ADMIN
MN802 ADMIN	data volume and overhead ADMIN
class five records ADMIN	INSTSIM class records ADMIN
MN500 ADMIN	monitor classes ADMIN
class four records ADMIN	output ADMIN
MN401 ADMIN	PERFORM class records ADMIN
class one records	record header ADMIN
MN10n ADMIN	RESPONSE class records ADMIN
class seven records ADMIN	responses to special tape conditions
MN700 ADMIN	ADMIN
class six records ADMIN	SCHEDULE class records ADMIN
MN600 ADMIN	SEEKS class records ADMIN
MN602 ADMIN	support for Paging Storage ADMIN
MN603 ADMIN	SWAP class records ADMIN
	SYSPROF class records ADMIN
MN604 ADMIN	
MN605 ADMIN MN606 ADMIN	tape format and content ADMIN USER class records ADMIN
MN607 ADMIN	monitor call instruction format DIAG
class three records	MONITOR command ADMIN, DIAG
MN30X ADMIN	classes ADMIN
MN300 ADMIN	defined INTRO
MN301 ADMIN	described SYSCMD
MN303 ADMIN	operands
MN304 ADMIN	ALL SYSCMD
MN305 ADMIN	APPLDATA SYSCMD
MN400 ADMIN	AUTODISK SYSCMD
	BUFFS SYSCMD
	CLOSE SYSCMD

Refer to the foldout page at the back of this book for a chart of abbreviations and their corresponding manuals.

CPTRACE SYSCMD	monitoring
DASTAP SYSCMD	file pool server operation SFSAD
DELETE SYSCMD	missed interruptions SYSCMD
DISPLAY SYSCMD	performance SFSAD
ENABLE SYSCMD	recommendations ADMIN
ENABLE, restrictions SYSCMD	MONTH option of DATE function SPIREF
EXCLUDE SYSCMD	MORE status notice PRIMER
FOR hh:mm SYSCMD	MOREHELP command CMSUG
FROM h1:m1 SYSCMD	description CMSREF
INCLUDE SYSCMD	format CMSREF
INSTSIM SYSCMD	messages CMSREF
INTERVAL SYSCMD	operands
LIMIT SYSCMD	ALL CMSREF
MIN SYSCMD	BRIEF CMSREF
MODE SYSCMD	DESCRIPT CMSREF
NONE SYSCMD	DETAIL CMSREF
NOSTOP SYSCMD	ERRORS CMSREF
OFF SYSCMD	FORMAT CMSREF
ON SYSCMD	NOTES CMSREF
PERFORM SYSCMD	OPTIONS CMSREF
raddr SYSCMD	PARMS CMSREF
RESPONSE SYSCMD	RELATED CMSREF
SAMPLE SYSCMD	
SCHEDULE SYSCMD	usage notes CMSREF
	MORE status on display screen APGDE,
SEC SYSCMD	CMSUG
SEEKS SYSCMD	MORE/HOLDING condition, SNA handling
SPOOL SYSCMD	SFPROG
START SYSCMD	move a file or subdirectory to another directory
STOP SYSCMD	ADRCMS
SWAP SYSCMD	MOVE command CMSLOT
SYSPROF SYSCMD	of DMS/CMS APGDE
TAPE SYSCMD	MOVE subcommand of XEDIT command
TAPE raddr SYSCMD	APGDE, XEDIT
TIME SYSCMD	example XEDIT
TO h2:m2 SYSCMD	in typewriter mode XEDITUG
TO userid SYSCMD	moveable head preferred paging area
USER SYSCMD	managing migration ADMIN
responses SYSCMD	MOVEFILE command APGDE
summary OPGDE, SYSCMD	and MACLIB members APGDE
syntax diagram, class A or E SYSCMD	copying
usage notes SYSCMD	CMS files from tapes created by CMSUG
monitor considerations for system generation	OS/MVS data sets ADGCMS
ADMIN	tape files CMSUG
MONITOR file, recording data in SFPROG	default device attributes CMSREF
monitor functions, CP commands used	description CMSREF, CMSUG
GENCMD, SYSCMD	examples CMSREF
monitor records generated by SFS SFSAD	PDS option ADGCMS, CMSREF
MONITOR START command DIAG	reading files from virtual card reader
monitor support	CMSUG
for the 3990 storage control models 1,	use of CMSUG
2 and 3 ADMIN	used with OS/MVS data sets ADGCMS

MP (multiprocessor) system moving a window up in the order of displayed COPY OPTIONS PLNGDE windows CMSREF displaying real storage SYSCMD block of lines XEDIT initialization messages OPGDE restarting OPGDE CMS files, commands to use CMSUG MREGS subcommand of IPCSSCAN command description IPCSREF definition ADMIN, SYSMSG to command line XEDITUG example output IPCSREF to specified location XEDITUG format IPCSREF display right or left XEDITUG functional category IPCSREF forward in a file XEDIT messages IPCSREF lines CMSLOT, PRIMER, XEDITUG response IPCSREF in typewriter mode XEDITUG usage note IPCSREF MRIOBLOK subcommand of IPCSSCAN using M prefix subcommand XEDITUG using M (prefix subcommand) XEDIT command using MOVE XEDIT description IPCSREF though a file PRIMER example output IPCSREF using BACKWARD XEDITUG format IPCSREF using BOTTOM XEDITUG functional category IPCSREF messages IPCSREF using BOTTOM in typewriter mode operand IPCSREF **XEDITUG** using DOWN XEDITUG responses IPCSREF using DOWN in typewriter mode usage notes IPCSREF **XEDITUG** MS code, exception log messages SERV using FORWARD XEDITUG \*MSG SFPROG, XEDITUG using PF keys XEDITUG MSG operand using TOP XEDITUG of SET command GENCMD using TOP in typewriter mode XEDITUG of STAT command IPCSREF using UP XEDITUG MSG option in SET CMSLOT using UP in typewriter mode XEDITUG MSG subcommand XEDIT windows PRIMER \*MSGALL SFPROG MSGID (keyword definition) IPCSREF MP (multiprocessor) affinity ADMIN MSGLINE option considerations for MVS guest RGOS of EXTRACT XEDIT of QUERY XEDIT displaying load GENCMD examine real storage SFPROG of SET XEDIT environment RGOS MSGMODE command of DMS/CMS installation INST **APGDE** DMKSYS considerations INST MSGMODE option product parameter file considerations of EXTRACT XEDIT of QUERY XEDIT **INST** MP (multiprocessor) mode DIAG, IPCSREF of SET XEDIT of TRANSFER XEDIT affinity **ADMIN** MP-generated VM/SP HPO systems RGOS MSGNOH command described SYSCMD recovery management OPGDE

trace table DIAG

Refer to the foldout page at the back of this book for a chart of abbreviations and their corresponding manuals.

operands	MThexloc1 operand
ALL SYSCMD	of DCP command SYSCMD
msgtext SYSCMD	of DMCP command SYSCMD
OPERATOR SYSCMD	mtypes
userid SYSCMD	CICSVM IPCSREF
* SYSCMD	FE IPCSREF
responses SYSCMD	PVM IPCSREF
summary OPGDE, SYSCMD	SFS IPCSREF
syntax diagram, class A or B SYSCMD	TSAF IPCSREF
usage notes SYSCMD	USER1 IPCSREF
MSGS start-up parameter SFSAD	MULT option
msgtext operand	in CMS/DOS ADGCMS
for MESSAGE command GENCMD	of the DLBL command ADGCMS,
of MESSAGE command SYSCMD	CMSREF
of MSGNOH command SYSCMD	multi-volume tape processing
of SMSG command GENCMD	See end-of-volume, processing
of WARNING command SYSCMD	multiple
msgtext, variable	access SECUR
described GENCMD, SYSCMD	defined INTRO
MSG = operand	address stops, setting with PER DIAG
CMSSTOR OBTAIN ADRCMS	alternate console selection
CMSSTOR RELEASE ADRCMS	argument passing SPIREF
FSOPEN macro ADRCMS	channel errors DIAG
FSSTATE macro ADRCMS	clauses on a line SPIUG
SUBPOOL CREATE ADRCMS	copy printing
SUBPOOL DELETE ADRCMS	3800 printer ADMIN
SUBPOOL RELEASE ADRCMS	extents ADGCMS
MShexloc operand	file pools CMSUG
of STCP command SYSCMD	files
MSS (mass storage system)	displaying XEDIT, XEDITUG
communication SFPROG	editing PRIMER, XEDIT, XEDITUG
CP automatic volume demount OPGDE	editing, illustration of XEDITUG
CP automatic volume mount OPGDE	ending editing sessions for XEDITUG
defining	on one screen XEDITUG
devices GENCMD	on one screen, example of XEDITUG
virtual volumes GENCMD	quitting XEDIT
devices	gateways CONPAO
time intervals set and monitored	input files
SYSCMD	with COPYFILE command CMSREE
error messages OPGDE	logical screens
initialization OPGDE	defining XEDIT, XEDITUG
mount and demount processing SFPROG	example of <b>XEDITUG</b>
restrictions PLNGDE	output files
specifying a partition OPGDE	with COPYFILE command CMSREI
communication SFPROG	resources CONPAO
mount and demount processing SFPROG	shadow table support ADMIN
volumes	enabling GENCMD
I/O management ADMIN	shadow table option, SET command
MSSF SCPINFO command SFPROG	INTRO
MSSF (monitoring and service support facility)	specifying in CMS/DOS CMSPEE
definition ADMIN, SYSMSG	specifying in CMS/DOS CMSREF
MSSFCALL SFPROG	string parsing SPIREF
SCPINFO command SFPROG	subcommands entered on command line

updates installation INST CTL option of XEDIT command ADGCMS DMKSYS considerations INST using UPDATE command ADGCMS product parameter file considerations user mode SFSAD **INST** multiprocessor (MP) mode DIAG, IPCSREF backups at shutdown of SFSAD backups during SFSAD recovery management OPGDE how to automatically start SFSAD trace table DIAG inhibition of, when a backup is required multiprocessor (MP) system **SFSAD** COPY OPTIONS PLNGDE monitoring SFSAD displaying real storage SYSCMD restricting user access during SFSAD initialization specifying start-up parameters for SFSAD messages OPGDE starting SFSAD restarting **OPGDE** stopping SFSAD Multisystem Communication Unit (MCU) tracing server execution during SFSAD coding RDEVICE macro PLNGDE users, reserving page frames for them multivolume data sets, displaying volumes on which they reside CMSREF **SYSCMD** views of different files XEDITUG multivolume extents ADGCMS example of XEDITUG multivolume VSAM extents views of same file XEDITUG identifying with DLBL command CMSREF example of XEDITUG in CMS/DOS CMSREF making changes in XEDITUG maximum number of disks CMSREF views, order of processing in XEDITUG in CMS/DOS CMSREF views of files PRIMER rules for specifying CMSREF VSE/SP virtual machines under VM in CMS/DOS CMSREF **RGOS** MVS/SP (Multiple Virtual Storage/System Multiple Virtual Storage/System Product<sup>TM</sup> Product) ADMIN, SAACOM (MVS/SP<sup>TM</sup>) definition ADMIN, SYSMSG See MVS/SP (Multiple Virtual Storage/System cross-memory services RGOS Product) defining a basic RGOS multiplication SPIUG definition SPIREF See MVS (Multiple Virtual Storage/System operator SPIREF, SPIUG Product) guest efficiency of communication RGOS multiplying numbers EXEC2 multiprocessor, dyadic, and dual processor non-paging DASD I/O improving the performance of ADMIN environments See Diagnosis Reference page fault assist RGOS AP environment simulation extensions RGOS See Diagnosis Reference support RGOS multiprocessor (MP) common segment facility RGOS affinity ADMIN enabled or disabled SYSCMD definition INST ECPS (Extended Control-Program displaying load GENCMD Support: VM/370) RGOS examine real storage SFPROG low address protection RGOS environment, considerations for MVS guest performance guidelines RGOS **RGOS** special MVS instruction operations RGOS System/370 Extended Facility RGOS

MVS (Multiple Virtual Storage/System Product) guest allocating real storage RGOS alternate path support RGOS analysis for MVS guest RGOS analyzing performance of RGOS AP-generated system RGOS cross memory processing RGOS DASD address considerations RGOS DASD sharing overview RGOS DIAGNOSE code support RGOS DMKRIO general considerations RGOS dumps RGOS error recording and analysis RGOS generating CP for performance RGOS hardware for DASD sharing RGOS MP-generated system RGOS multiprocessing considerations RGOS multiprocessor environment RGOS operator console RGOS performance, enhancing with CP commands **RGOS** preferred machine assist RGOS problem determination RGOS production systems RGOS real storage above 16 Mb RGOS reserve/release summary RGOS restart dumps RGOS running with 3380 DASDs improving the performance of ADMIN shadow tables RGOS

sharing minidisks RGOS single processor mode RGOS stage 1 I/O console RGOS stand-alone dump RGOS stand-alone dump restrictions RGOS storage considerations, V = R RGOS tape definitions RGOS trace table RGOS TSO when running under VM/SP HPO uniprocessor environment RGOS UP-generated system RGOS virtual address rules RGOS virtual machine options **BMX RGOS ECMODE RGOS** PMA RGOS REALTIMER RGOS STFIRST RGOS VIRT = REAL RGOS XMEM RGOS **370E RGOS** VM/RTM, using RGOS V = R configuration RGOS V = V configuration RGOS MVS/System Extensions Support common segment facility RGOS enabling RGOS low address protection RGOS special operations and instructions RGOS

N	NAMEFIND command
IN .	description CMSREF
	FIFO option CMSREF
n operand	FILE option CMSREF
of DOWN subcommand IPCSREF	LIFO option CMSREF
of STORE command GENCMD	LINENUM option CMSREF
of UP subcommand IPCSREF	NAMES file format CMSREF
N-select, definition ADMIN, SYSMSG	NAMES file tags CMSREF
NAME control record, ZAP and ZAPTEXT	sample names file CMSREF
service programs	SIZE option CMSREF
format SERV	STACK option CMSREF
function SERV	START option CMSREF
parameters SERV	TYPE option CMSREF
usage notes SERV	XEDIT option CMSREF
name	NAMELANG macro PLNGDE
avoiding conflicts of macro XEDITUG	format PLNGDE
displaying PRIMER	operands
entry in a names file CMSLOT	LANGID PLNGDE
of EXECs SPIREF	NLSPGCT PLNGDE
of file, changing <b>PRIMER</b>	NLSSTRT PLNGDE
of functions <b>SPIREF</b>	NLSVOL PLNGDE
of programs SPIREF	NAMENCP macro
of subroutines SPIREF	for 37XX control program ADMIN
of variables SPIREF	format PLNGDE
space (resources) CONPAO	operands
substitution	CPNAME PLNGDE
examples EXEC2	CPSIZE PLNGDE
steps EXEC2	CPTYPE PLNGDE
table, mode, defining CONPAO	SYSPGCT PLNGDE
unique resource CONPAO	SYSSTRT PLNGDE
uniqueness, private resource CMSMIG	SYSVOL PLNGDE
NAME operand	NAMES command CMSLOT, PRIMER
of CHANGE command GENCMD,	description CMSREF
SYSCMD	<u>•</u>
of CLOSE command GENCMD	example of use INTRO nickname CMSREF
of LKED command CMSREF	
of LOADVFCB command GENCMD	PF keys on NAMES menu CMSREF
NAME parameter	sample NAMES screen CMSREF NAMES file
ACCEPT (CMSIUCV) function CONGREF	
CLR (clear) function CONGREF	changing an entry within PRIMER
NAME statement, patch update file SERV	CMS communications directory CMSMIG communications directories CONPAO
named segments, finding, loading, purging	
SFPROG	description of CONPAO sample entries CONPAO
named system	SCOMDIR CONPAO
creating, 3800 printing subsystem PLNGDE	
definition ADMIN, SYSMSG	system level CONPAO UCOMDIR CONPAO
loading by GENCMD	
saving or loading a 3800 SFPROG	user level CONPAO
NAMEDEF, using ADGCMS	creating CMSLOT, PRIMER definition CMSUG, PRIMER
	gennuon Civioug, PKIIVIEK

Refer to the foldout page at the back of this book for a chart of abbreviations and their corresponding manuals.

deleting an entry from <b>PRIMER</b>	name, variable
editing CMSLOT	described GENCMD, SYSCMD
editing with MESSAGE window CMSUG	NAME = operand
finding information in <b>PRIMER</b>	IMMCMD macro ADRCMS
for communications directory CONGREF	NUCEXT CLR ADRCMS
for private resource manager CONGREF	NUCEXT QUERY ADRCMS
for private resource registration	NUCEXT SET ADRCMS
See NAMES files, \$SERVER\$	SEGMENT macro ADRCMS
private resource access authorization	SUBCOM CLR ADRCMS
CMSMIG	SUBCOM QUERY ADRCMS
\$SERVER\$ CONPAO	SUBCOM SET ADRCMS
description of CONPAO	SUBPOOL CREATE ADRCMS
overview CONPAO	SUBPOOL DELETE ADRCMS
sample entries CONPAO	SUBPOOL RELEASE ADRCMS
setting up CONPAO	naming
special characters to avoid CMSUG	a line XEDITUG
storage in SFS directory or minidisk CMSUG	using SET POINT XEDIT
NAMES file type usage in CMS CMSUG	using .xxxx (prefix subcommand) XEDIT
NAMES operand	a virtual screen CMSREF, XEDIT
of QUERY command CMSLOT,	a window XEDIT
GENCMD, SYSCMD	CMS files CMSREF, CMSUG
of QUERY (ALL) command GENCMD	conventions SAACOM
NAMESYS macro ADMIN, PLNGDE	conventions for HELP files CMSUG
available space for each DASD type	file pools SFSAD
PLNGDE	SFS directories CMSREF
format PLNGDE	user commands CMSUG
operands	variables SPIUG
PARMRGS PLNGDE	National Language Support (NLS) CMSMIG,
PROTECT PLNGDE	GIM
RCVRID PLNGDE	See also languages, national
SAVESEQ PLNGDE	CMS INTRO
SYSBLOK PLNGDE	general INTRO
SYSCYL PLNGDE	language support INTRO
SYSHRSG PLNGDE	
	service INTRO
	service INTRO national languages SFPROG. SYSMSG
SYSNAME PLNGDE	national languages SFPROG, SYSMSG
SYSNAME PLNGDE SYSPGCT PLNGDE	national languages SFPROG, SYSMSG See also languages, national
SYSNAME PLNGDE SYSPGCT PLNGDE SYSPGNM PLNGDE	national languages SFPROG, SYSMSG See also languages, national deleting a language ADMIN
SYSNAME PLNGDE SYSPGCT PLNGDE SYSPGNM PLNGDE SYSSIZE PLNGDE	national languages SFPROG, SYSMSG See also languages, national deleting a language ADMIN feature tape INST
SYSNAME PLNGDE SYSPGCT PLNGDE SYSPGNM PLNGDE SYSSIZE PLNGDE SYSSTRT PLNGDE	national languages SFPROG, SYSMSG See also languages, national deleting a language ADMIN feature tape INST LANGGEN command ADMIN
SYSNAME PLNGDE SYSPGCT PLNGDE SYSPGNM PLNGDE SYSSIZE PLNGDE SYSSTRT PLNGDE USERID PLNGDE	national languages SFPROG, SYSMSG See also languages, national deleting a language ADMIN feature tape INST LANGGEN command ADMIN LANGMERG command ADMIN
SYSNAME PLNGDE SYSPGCT PLNGDE SYSPGNM PLNGDE SYSSIZE PLNGDE SYSSTRT PLNGDE USERID PLNGDE VMGROUP PLNGDE	national languages SFPROG, SYSMSG See also languages, national deleting a language ADMIN feature tape INST LANGGEN command ADMIN LANGMERG command ADMIN on your system ADMIN
SYSNAME PLNGDE SYSPGCT PLNGDE SYSPGNM PLNGDE SYSSIZE PLNGDE SYSSTRT PLNGDE USERID PLNGDE VMGROUP PLNGDE VSYSADR PLNGDE	national languages SFPROG, SYSMSG See also languages, national deleting a language ADMIN feature tape INST LANGGEN command ADMIN LANGMERG command ADMIN on your system ADMIN updating files for an existing language
SYSNAME PLNGDE SYSPGCT PLNGDE SYSPGNM PLNGDE SYSSIZE PLNGDE SYSSTRT PLNGDE USERID PLNGDE VMGROUP PLNGDE VSYSADR PLNGDE VSYSRES PLNGDE	national languages SFPROG, SYSMSG See also languages, national deleting a language ADMIN feature tape INST LANGGEN command ADMIN LANGMERG command ADMIN on your system ADMIN updating files for an existing language ADMIN
SYSNAME PLNGDE SYSPGCT PLNGDE SYSPGNM PLNGDE SYSSIZE PLNGDE SYSSTRT PLNGDE USERID PLNGDE VMGROUP PLNGDE VSYSADR PLNGDE VSYSRES PLNGDE relationship of page numbers, segment	national languages SFPROG, SYSMSG See also languages, national deleting a language ADMIN feature tape INST LANGGEN command ADMIN LANGMERG command ADMIN on your system ADMIN updating files for an existing language ADMIN native languages
SYSNAME PLNGDE SYSPGCT PLNGDE SYSPGNM PLNGDE SYSSIZE PLNGDE SYSSTRT PLNGDE USERID PLNGDE VMGROUP PLNGDE VSYSADR PLNGDE VSYSRES PLNGDE relationship of page numbers, segment numbers, and hexadecimal addresses	national languages SFPROG, SYSMSG See also languages, national deleting a language ADMIN feature tape INST LANGGEN command ADMIN LANGMERG command ADMIN on your system ADMIN updating files for an existing language ADMIN native languages See languages, national
SYSNAME PLNGDE SYSPGCT PLNGDE SYSPGNM PLNGDE SYSSIZE PLNGDE SYSSTRT PLNGDE USERID PLNGDE VMGROUP PLNGDE VSYSADR PLNGDE VSYSADR PLNGDE relationship of page numbers, segment numbers, and hexadecimal addresses PLNGDE	national languages SFPROG, SYSMSG See also languages, national deleting a language ADMIN feature tape INST LANGGEN command ADMIN LANGMERG command ADMIN on your system ADMIN updating files for an existing language ADMIN native languages See languages, national native mode
SYSNAME PLNGDE SYSPGCT PLNGDE SYSPGNM PLNGDE SYSSIZE PLNGDE SYSSTRT PLNGDE USERID PLNGDE VMGROUP PLNGDE VSYSADR PLNGDE VSYSADR PLNGDE relationship of page numbers, segment numbers, and hexadecimal addresses PLNGDE worksheet to aid in coding PLNGDE	national languages SFPROG, SYSMSG  See also languages, national deleting a language ADMIN feature tape INST LANGGEN command ADMIN LANGMERG command ADMIN on your system ADMIN updating files for an existing language ADMIN native languages See languages, national native mode changing to it from VM/SP HPO SYSCMD
SYSNAME PLNGDE SYSPGCT PLNGDE SYSPGNM PLNGDE SYSSIZE PLNGDE SYSSIZE PLNGDE USERID PLNGDE USERID PLNGDE VMGROUP PLNGDE VSYSADR PLNGDE VSYSADR PLNGDE relationship of page numbers, segment numbers, and hexadecimal addresses PLNGDE worksheet to aid in coding PLNGDE NAME3800 macro ADMIN	national languages SFPROG, SYSMSG  See also languages, national deleting a language ADMIN feature tape INST LANGGEN command ADMIN LANGMERG command ADMIN on your system ADMIN updating files for an existing language ADMIN native languages See languages, national native mode changing to it from VM/SP HPO SYSCMD definition ADMIN, SYSMSG
SYSNAME PLNGDE SYSPGCT PLNGDE SYSPGNM PLNGDE SYSSIZE PLNGDE SYSSIZE PLNGDE USERID PLNGDE USERID PLNGDE VMGROUP PLNGDE VSYSADR PLNGDE VSYSADR PLNGDE relationship of page numbers, segment numbers, and hexadecimal addresses PLNGDE worksheet to aid in coding PLNGDE NAME3800 macro ADMIN format PLNGDE	national languages SFPROG, SYSMSG See also languages, national deleting a language ADMIN feature tape INST LANGGEN command ADMIN LANGMERG command ADMIN on your system ADMIN updating files for an existing language ADMIN native languages See languages, national native mode changing to it from VM/SP HPO SYSCMD definition ADMIN, SYSMSG switching to or from RGOS
SYSNAME PLNGDE SYSPGCT PLNGDE SYSPGNM PLNGDE SYSSIZE PLNGDE SYSSITT PLNGDE USERID PLNGDE VMGROUP PLNGDE VSYSADR PLNGDE VSYSADR PLNGDE relationship of page numbers, segment numbers, and hexadecimal addresses PLNGDE worksheet to aid in coding PLNGDE NAME3800 macro ADMIN format PLNGDE operands	national languages SFPROG, SYSMSG See also languages, national deleting a language ADMIN feature tape INST LANGGEN command ADMIN LANGMERG command ADMIN on your system ADMIN updating files for an existing language ADMIN native languages See languages, national native mode changing to it from VM/SP HPO SYSCMD definition ADMIN, SYSMSG switching to or from RGOS native SNA
SYSNAME PLNGDE SYSPGCT PLNGDE SYSPGNM PLNGDE SYSSIZE PLNGDE SYSSIZE PLNGDE USERID PLNGDE USERID PLNGDE VMGROUP PLNGDE VSYSADR PLNGDE VSYSADR PLNGDE relationship of page numbers, segment numbers, and hexadecimal addresses PLNGDE worksheet to aid in coding PLNGDE NAME3800 macro ADMIN format PLNGDE operands CPNAME PLNGDE	national languages SFPROG, SYSMSG  See also languages, national deleting a language ADMIN feature tape INST  LANGGEN command ADMIN  LANGMERG command ADMIN on your system ADMIN updating files for an existing language ADMIN native languages See languages, national native mode changing to it from VM/SP HPO SYSCMD definition ADMIN, SYSMSG switching to or from RGOS native SNA See SNA (System Network Architecture)
SYSNAME PLNGDE SYSPGCT PLNGDE SYSPGNM PLNGDE SYSSIZE PLNGDE SYSSIZE PLNGDE USERID PLNGDE USERID PLNGDE VMGROUP PLNGDE VSYSADR PLNGDE VSYSRES PLNGDE relationship of page numbers, segment numbers, and hexadecimal addresses PLNGDE worksheet to aid in coding PLNGDE NAME3800 macro ADMIN format PLNGDE operands 'CPNAME PLNGDE SYSPGCT PLNGDE	national languages SFPROG, SYSMSG See also languages, national deleting a language ADMIN feature tape INST LANGGEN command ADMIN LANGMERG command ADMIN on your system ADMIN updating files for an existing language ADMIN native languages See languages, national native mode changing to it from VM/SP HPO SYSCMD definition ADMIN, SYSMSG switching to or from RGOS native SNA
SYSNAME PLNGDE SYSPGCT PLNGDE SYSPGNM PLNGDE SYSSIZE PLNGDE SYSSIZE PLNGDE USERID PLNGDE USERID PLNGDE VMGROUP PLNGDE VSYSADR PLNGDE VSYSADR PLNGDE relationship of page numbers, segment numbers, and hexadecimal addresses PLNGDE worksheet to aid in coding PLNGDE NAME3800 macro ADMIN format PLNGDE operands CPNAME PLNGDE	national languages SFPROG, SYSMSG  See also languages, national deleting a language ADMIN feature tape INST  LANGGEN command ADMIN  LANGMERG command ADMIN on your system ADMIN updating files for an existing language ADMIN native languages See languages, national native mode changing to it from VM/SP HPO SYSCMD definition ADMIN, SYSMSG switching to or from RGOS native SNA See SNA (System Network Architecture)

NBFILE option	NETLOG file CMSLOT
of EXTRACT XEDIT	NETLOG file type PRIMER
of QUERY XEDIT	NETLOG file type use in CMS CMSUG
of TRANSFER XEDIT	NetView INTRO
NBSCOPE option	and the programmable operator facility
of EXTRACT XEDIT	SFPROG
NCAL option of LKED command CMSREF	logging NetView messages SFPROG
*NCCF SFPROG	logical operator SFPROG
NCCF (Network Communications Control	operator SFPROG
Facility)	command authorization SFPROG
interface with Programmable Operator	QUERY command authorization SFPROG
Facility SFPROG	operator station SFPROG
in a single system OPGDE	PMX SFPROG
logging NCCF messages SFPROG	when stopping programmable operator
logical operator SFPROG	SFPROG
Message Exchange (PMX) OPGDE	NetView Distribution Manager (NetView DM)
NCCF operator as the logical operator	INTRO
OPGDE	description INTRO
operator OPGDE	SNA INTRO
single system with NCCF OPGDE	NetView Message Queueing Service INTRO
operator SFPROG	NetView PROP command INTRO
command authorization SFPROG	network
QUERY command authorization SFPROG	component INTRO
routing messages to SFPROG	controllers SECUR
station SFPROG	DDP defined INTRO
PMX SFPROG	defined TERMREF
when stopping programmable operator	dump operations DIAG
SFPROG	messages PRIMER
NCP (Network Control Program)	status notice PRIMER
and PEP sharing SFPROG	SNA, programs accessing resources in TSAF
NCPDUMP service program DIAG, SECUR	collection CMSMIG
NCPDUMP command DIAG	network addressable unit (NAU) CONPAO
ncpname operand	NETWORK command DIAG
of NETWORK command SYSCMD	described SYSCMD
NE option of LKED command APGDE,	operands
CMSREF	ACTIVE SYSCMD
NEEDINFO operand	AS vaddr SYSCMD
of PRB command IPCSREF	ATTACH resid SYSCMD
of STAT command IPCSREF	AUTO SYSCMD
negation	bytecount SYSCMD
of logical values SPIREF	DETACH resid SYSCMD
of numbers SPIREF	DISABLE ALL SYSCMD
negative return codes SFSAD	DISABLE resid SYSCMD
neighbor operand of FDISPLAY subcommand	DISPLAY SYSCMD
IPCSREF	DUMP raddr SYSCMD
nesting	ENABLE SYSCMD
described GENCMD, SYSCMD	ENABLE ALL SYSCMD
of control structures SPIREF	ENABLE resid SYSCMD
NETDATA command CMSREF	END SYSCMD

Refer to the foldout page at the back of this book for a chart of abbreviations and their corresponding manuals.

FREE SYSCMD	NEWNAME parameter, product parameter
FROM userid SYSCMD	file override area SERV
hexloc SYSCMD	NEXT subcommand
IMMED SYSCMD	of XEDIT command XEDIT
LOAD OPGDE, SYSCMD	example of <b>XEDIT</b>
ncpname SYSCMD	of TESTCOB command APGDE
OFF SYSCMD	of TESTFORT command APGDE
OFFLINE SYSCMD	NFIND subcommand XEDIT
ONLINE SYSCMD	with DBCS strings XEDIT
POLLDLAY SYSCMD	NFINDUP subcommand XEDIT
QUERY SYSCMD	with DBCS strings XEDIT
resid SYSCMD	NFU
SHUTDOWN SYSCMD	See NFINDUP subcommand
TO userid SYSCMD	Nhexloc operand
vaddr SYSCMD	of STCP command SYSCMD
VARY SYSCMD	Nhexloc1 operand
responses SYSCMD	of DCP command SYSCMD
summary OPGDE, SYSCMD	of DMCP command SYSCMD
syntax diagram, class A or B SYSCMD	nick tag in communications directory
usage for remote 3270 SYSCMD	CONGREF
usage notes SYSCMD	nicknames PRIMER
3270 resource identification SYSCMD	assigned in NAMES file CMSREF
Network Communications Control Facility	entry in a names file CMSLOT
(NCCF)	creating with a NAMES file CMSUG
and the programmable operator facility	used in NOTE command CMSLOT,
SFPROG	PRIMER
logging NCCF messages SFPROG	used in SENDFILE command CMSLOT,
logical operator SFPROG	PRIMER
operator SFPROG	used in TELL command CMSLOT
command authorization SFPROG	using with remote users SFSAD
QUERY command authorization SFPROG	resolution of SFSAD
routing messages to SFPROG	nK, variable
operator station SFPROG	described GENCMD, SYSCMD
PMX SFPROG	NL operand of FILEDEF command CMSREF
use with programmable operator <b>OPGDE</b>	NL processing for tapes
when stopping programmable operator	See no label processing
SFPROG	NLhexloc operand
Network Control Program (NCP)	of STCP command SYSCMD
and PEP sharing SFPROG	NLhexloc1 operand
NETWORK virtual screen PRIMER	of DCP command SYSCMD
NETWORK window PRIMER	of DMCP command SYSCMD
never-call function, specifying in CMS TEXT	NLS (National Language Support)
file CMSREF	CMS INTRO
new conversations through a gateway,	general INTRO
preventing CONPAO	installing INST
NEW parameter	language support INTRO
DMSOPEN (SFS Open) ADRCMS	service INTRO
new-line key <b>PRIMER</b>	NLS tag, product parameter file SERV
NEWDATE option	NLSPGCT operand
of COPYFILE command CMSREF	of NAMELANG macro PLNGDE
NEWDATE parameter	NLSSTRT operand
DMSFILEC (SFS Filecopy) ADRCMS	of NAMELANG macro PLNGDE
NEWFILE option of COPYFILE command	
CMSREF	

NLSVOL operand NOCOMMIT parameter of NAMELANG macro PLNGDE DMSCLDIR (SFS Close Directory) nM, variable **ADRCMS** described GENCMD, SYSCMD DMSCLOSE (SFS Close) ADRCMS DMSCRALI (SFS Create Alias) ADRCMS nn operand of ECHO command GENCMD DMSCRDIR (SFS Create Directory) nn SEC/MIN/HRs operand ADRCMS SLEEP command GENCMD DMSERASE (SFS Erase) ADRCMS nnn operand of REPEAT command SYSCMD DMSEXIDI (SFS Exist—Directory) nnnn operand of DISPLAY subcommand **ADRCMS IPCSREF** DMSEXIFI (SFS Exist—File) ADRCMS DMSEXIST (SFS Exist) ADRCMS nnnn parameter of SELECT subcommand **IPCSREF** DMSFILEC (SFS Filecopy) ADRCMS nnnn operand of PRB command IPCSREF DMSGRANT (SFS Grant Authority) nnnn operand of STAT command IPCSREF **ADRCMS** nnnnn operand of IPL command GENCMD DMSRENAM (SFS Rename) ADRCMS DMSREVOK (SFS Revoke Authority) no label processing CMSUG NOACCOUNT start-up parameter SFSAD **ADRCMS** NOACK option of NOTE command CMSREF SFS parameter ADRCMS NOALIGN option of ASSEMBLE command NOCOMPRESS option of EXECUPDT **CMSREF** command CMSREF NOCONT operand NOALOGIC option of ASSEMBLE command of SPOOL command GENCMD **CMSREF** NOAUDIT start-up parameter SFSAD node CMSLOT, CONGREF NOAUTO option displayed PRIMER of INCLUDE command CMSREF entry in a names file CMSLOT of LOAD command CMSREF services SAACOM NOBACKUP start-up parameter SFSAD node ID CONPAO as specified for VMSYS and VMSYSU NODECK option **SFSAD** of ASSEMBLE command CMSREF switching from SFSAD of OPTION command CMSREF switching to SFSAD nodeid, variable NOCACHE parameter described GENCMD, SYSCMD DMSOPEN (SFS Open) ADRCMS NODISK option of ACCESS command NOCC option of PRINT command CMSREF **CMSREF NOCHANGE** option NODUMP option of OPTION command of DLBL command CMSREF **CMSREF** of FILEDEF command CMSREF NODUMP start-up parameter SFSAD of LABELDEF command CMSREF NODUP option of INCLUDE command CMSREF NOCLEAR operand of LOAD command CMSREF of IPL command GENCMD **NOCLEAR** option noentry option of INCLUDE command CMSREF of IPCSPRT command IPCSREF of LOAD command CMSREF of TRAPFILE command IPCSREF of XEDIT command used in EXEC NOEOF operand procedure CMSUG of SPOOL command GENCMD NOCOMMENTS option of EXECUPDT NOEOV option of FILEDEF command command CMSREF **CMSREF** 

Refer to the foldout page at the back of this book for a chart of abbreviations and their corresponding manuals.

NOERASE option of FORMAT command	NOMCALL option of ASSEMBLE command
CMSREF	CMSREF
NOERRS option of OPTION command	NOMLOGIC option of ASSEMBLE command
CMSREF	CMSREF
NOESD option of ASSEMBLE command	NOMSGS start-up parameter SFSAD
CMSREF	NOMSG = operand
NOESECURITY start-up parameter SFSAD	FSOPEN macro ADRCMS
NOETRACE start-up parameter SFSAD	non-paging DASD
NOFILELIST option of FILELIST command	improving performance of
CMSREF	with cached subsystem ADMIN
NOFORM option of IPCSPRT command	non-SFS backup facilities SFSAD
IPCSREF	non-SFS statements or macros to manipulate
	SFS files CMSMIG
NOFORMAT start-up parameter SFSAD	
as used by FILESERV GENERATE	SFS file storage space CMSMIG
processing SFSAD	non-shared segments, definition INST
NOHEADER option	non-VM operating systems
of LISTFILE command CMSREF	establishing contact with TERMREF
of PUNCH command CMSREF	non-wrap file DIAG
NOHEX option of IPCSPRT command	I/O activity, example <b>DIAG</b>
IPCSREF	nondedicated
NOHISTORY option of EXECUPDT	devices ADMIN
command CMSREF	private gateways CONGREF
NOHOLD operand	terminal definitions RGOS
of CHANGE command GENCMD,	NONDISP option
SYSCMD	of EXTRACT XEDIT
of CLOSE command GENCMD	of QUERY XEDIT
of QUERY command GENCMD,	of SET XEDIT
SYSCMD	of TRANSFER XEDIT
of SPOOL command GENCMD	nondisplayable character
of SPTAPE command SYSCMD	translation tables TERMREF
NOINV option	defining character used in place of <b>XEDIT</b>
of INCLUDE command CMSREF	NONE operand
of LOAD command CMSREF	of MONITOR command SYSCMD
NOIPL operand	NONE synchronization level CONGREF
of LOGON operand GENCMD	noninteractive
	definition ADMIN, SYSMSG
NOITRACE start-up parameter SFSAD	•
NOLIBE option	users, making more storage available
of INCLUDE command CMSREF	SYSCMD
of LOAD command CMSREF	nonpaging application, definition ADMIN,
NOLIBMAC option of ASSEMBLE command	SYSMSG
CMSREF	nonrecoverable machine check <b>DIAG</b>
NOLIST option	nonreenterable program save areas GCSREF
of ASSEMBLE command CMSREF	nonreentrant code ADRCMS
of OPTION command CMSREF	generating, using LINEDIT macro
NOLISTX option of OPTION command	ADRCMS
CMSREF	nonrelocatable modules ADGCMS
NOLOG option of NOTE command CMSREF	in CMS CMSREF
NOLOG password <b>OPGDE</b>	nonresident pages
NOMAP option	definition ADMIN, SYSMSG
of GENMOD command CMSREF	nonshared VCU mode
of INCLUDE and LOAD commands APGDE	miscellaneous devices PLNGDE
of IPCSPRT command IPCSREF	tape devices PLNGDE
of LOAD command CMSREF	TDISK space PLNGDE
	terminals PLNGDE

unit record devices PLNGDE

nonstandard label processing, tapes CMSUG label routine, writing CMSUG labeled tapes, defining CMSUG NONUM option of ASSEMBLE command **CMSREF** NOOBJECT option of ASSEMBLE command **CMSREF** NOP instruction SPIREF, SPIUG NOPRINT option of ASSEMBLE command CMSREF of LKED command APGDE, CMSREF NOPROF option APGDE of ACCESS command CMSREF to suppress execution of PROFILE EXEC **CMSUG** NOPROMPT option of COPYFILE command CMSREF of DISK command CMSREF of IPCSPRT command IPCSREF of TRAPFILE command IPCSREF NOO2 operand of SET command SYSCMD NOQ3 operand of SET command SYSCMD NOREAL option of IPCSPRT command **IPCSREF** NOREC = operand FSCB macro ADRCMS FSOPEN macro ADRCMS FSREAD macro ADRCMS FSWRITE macro ADRCMS NORENT option of ASSEMBLE command **CMSREF NOREP** option of INCLUDE command CMSREF of LOAD command CMSREF NOREPLACE option of DISK option CMSREF NORESTORE start-up parameter SFSAD NORETURN operand of GIVE command SYSCMD of OVM command SYSCMD NORLD option of ASSEMBLE command normal option of DATE function SPIREF

NORUN operand of PER command GENCMD of TRACE command GENCMD NOSAVE option of ACCESS command CMSREF NOSAVESEGID start-up parameter SFSAD as specified for VMSYS and VMSYSU SFSAD NOSEP operand of START command SYSCMD NOSID option of EXECUPDT command NOSPECS option of COPYFILE command **CMSREF** NOSTMT option of ASSEMBLE command **CMSREF** NOSTOP operand of MONITOR command SYSCMD NOSTR option of GENMOD command CMSREF nosum option of IPCSPRT command IPCSREF of TRAPFILE command IPCSREF NOSYM option of OPTION command CMSREF NOSYS operand of CHANGE command SYSCMD NOT ACCEPTED status on display screen APGDE. CMSUG, PRIMER not enough PG space defined ADMIN not enough PP space defined ADMIN not equal operator  $(\neg =)$  SPIREF not equal operator (/=) SPIREF not exactly equal operator  $(\neg = =)$  SPIREF not exactly equal operator (/==) SPIREF not finding text using NFIND XEDIT using NFINDUP XEDIT not greater than operator  $(\neg >)$  SPIUG not greater than operator  $(\neg >)$  SPIREF not less than operator  $(\neg <)$  SPIREF NOT operator SPIREF, SPIUG not ready status simulating GENCMD NOT symbol used in string target XEDIT, **XEDITUG** notation engineering SPIREF scientific SPIREF notational conventions CMSREF, EXEC2, GENCMD, IPCSREF, SYSCMD for HELP CMSUG

Refer to the foldout page at the back of this book for a chart of abbreviations and their corresponding manuals.

normal wait state codes SYSMSG

NOTE command APGDE, CMSLOT,	&LOOP statement EXEC2
PRIMER	&TRACE ALL EXEC2
ACK option CMSREF	preparing CMSLOT
ADD option CMSREF	receiving CMSLOT, PRIMER
CANCEL option CMSREF	sending CMSLOT, PRIMER
CC option CMSREF	sending complimentary copies of PRIMER
description CMSREF	to a list of people PRIMER
LOG option CMSREF	typing PRIMER
LONG option CMSREF	NOTES option of DETAIL HELP CMSUG
NOACK option CMSREF	NOTEST option of ASSEMBLE command
NOLOG option CMSREF	CMSREF
NONOTEBOOK option CMSREF	notices, status PRIMER
NOTEBOOK option CMSREF	NOTIFY function of SPOOL system service
PF key settings CMSREF	SFPROG
PROFILE option CMSREF	NOTIFY = operand
REPLACE option CMSREF	HNDIO macro ADRCMS
sending a note CMSREF	NOTRANS operand
SHORT option CMSREF	of SET command ADMIN, GENCMD
	NOTRC option of PRINT command CMSREF
NOTE macro (BSAM) GCSREF	PROGMAP CMSREF
dcb address parameter GCSREF	
description GCSREF	NOTREADY command CMSUG, GENCMD
notebook entry in a names file CMSLOT	described GENCMD
NOTEBOOK file CMSLOT, PRIMER	operand
NOTEBOOK file type use in CMS CMSUG	vaddr GENCMD
NOTEBOOK option	responses GENCMD
of NOTE command CMSREF	usage notes GENCMD
NOTERM operand	NOTRUNC option COPYFILE command
of SPOOL command GENCMD	CMSREF
NOTERM option	NOTYPE option
of ASSEMBLE command CMSREF	of COPYFILE command CMSREF
of LKED command APGDE, CMSREF	of ERASE command CMSREF
of OPTION command CMSREF	of INCLUDE command CMSREF
notes	of LOAD command CMSREF
cancelling CMSLOT	NOTYPING flag cleared before error messages
continuing CMSLOT, PRIMER	SPIREF
creating PRIMER	NOUPDATE option
definition of <b>PRIMER</b>	of EXECUPDT command CMSREF
keeping copies of PRIMER	NOVALUE condition
on EXEC 2 EXEC2	on SIGNAL instruction SPIREF
assignment statement EXEC2	use of SPIREF
closing loops EXEC2	NOVF option
conditional phrases EXEC2	defining in directory PLNGDE
embedded blanks EXEC2	NOVIRT option of IPCSPRT command
evaluation of &DATE and &TIME	IPCSREF
EXEC2	NOXREF option
label search EXEC2	of ASSEMBLE command CMSREF
leading zeros EXEC2	of OPTION command CMSREF
numbers EXEC2	NOYFLAG option of ASSEMBLE command
plus signs EXEC2	CMSREF
program stack EXEC2	NO3800 operand
recursive execution EXEC2	of START command SYSCMD
reserved words EXEC2	
	NShexloc operand of STCP command SYSCMD
termination EXEC2	
truncation column EXEC2	NSL operand

NSL (nonstandard label) processing CMSUG nucleus NThexloc1 operand building INST of DCP command SYSCMD considerations, VSE RGOS of DMCP command SYSCMD VM under VM RGOS NUCEXT CMS, building INST general formats CMSMIG CP **NUCEXT function CMSMIG** building INST ENDCMD attribute ADRCMS defining SYSNUC OPGDE DMKSYS ASSEMBLE file OPGDE linkage conventions ADRCMS end of resident nucleus address SERV nucleus extensions ADRCMS nucleus storage ADRCMS IPL procedure improvements **OPGDE** NUCXDROP command ADRCMS protecting spool files OPGDE NUCXLOAD command ADRCMS saving IPLable copy on tape SERV NUCXMAP command ADRCMS extensions ADRCMS, CMSMIG PLISTS ADRCMS cancel an extension CMSREF PURGE and RESET service calls clearing ADRCMS **ADRCMS** creating ADGCMS defining ADRCMS register contents upon entry ADRCMS SYSTEM and SERVICE attributes definition of ADGCMS **ADRCMS** deleting ADGCMS **NUCEXT** macro determining existence of ADRCMS ANCHOR option displaying information about ADGCMS ERROR = operand ADRCMS ENDCMD option ADRCMS IMMCMD option ADRCMS CLR option ERROR = operand ADRCMS installation CMSREF NAME = operand ADRCMS managing ADRCMS creating immediate commands ADGCMS obtain information about CMSREF defining nucleus extensions ADGCMS obtaining the SCBLOCK anchor deleting nucleus extensions ADGCMS **ADRCMS** general formats ADGCMS, ADRCMS querying ADGCMS **QUERY** option system ADRCMS ERROR = operand ADRCMS user ADRCMS NAME = operand ADRCMS GCS, building INST querying nucleus extensions ADGCMS support, alternate ADMIN **SET** option nucleus load map (NUCMAP) DIAG AMODE = operand ADRCMS definition of DIAG ENDCMD = operand ADRCMS information contained in DIAG ENTRY = operand ADRCMS obtaining a **DIAG** ERROR = operand ADRCMS NUCMAP (nucleus load map) DIAG IMMCMD = operand ADRCMS definition of DIAG INTTYPE = operand ADRCMS information contained in DIAG KEY = operand ADRCMS obtaining a DIAG NAME = operand ADRCMS NUCLEUS subpool ADGCMS ORIGIN = operand ADRCMS NUCON extension (SIE) DIAG SERVICE = operand ADRCMS NUCON (nucleus constant area) DIAG, SYSTEM = operand ADRCMS **IPCSREF** UFLAGS = operand ADRCMS changes DIAG UWORD = operand ADRCMS GCS nucleus constant area DIAG information DIAG

mapping DIAG

Refer to the foldout page at the back of this book for a chart of abbreviations and their corresponding manuals.

NUCADROP command ADRUMS	NUMBER command of DMS/CMS APGDE
conversion considerations CMSMIG	number of copies
description CMSREF	spool file attribute <b>OPGDE</b>
NUCXDROP for explicit server unload SRPI	number of files being edited XEDITUG
NUCXLOAD	number of printed copies, specifying
loading servers by SRPI	CMSLOT
used by SRPI macro SRPI	number operand of + or - subcommand
NUCXLOAD command ADRCMS, CMSUG	IPCSREF
conversion considerations CMSMIG	NUMBER option
description CMSREF	of ASSEMBLE command CMSREF
ENDCMD operand CMSREF	of EXTRACT XEDIT
IMMCMD operand CMSREF	of QUERY XEDIT
PUSH operand CMSREF	of SET XEDIT
SERVICE operand CMSREF	of TRANSFER XEDIT
SYSTEM operand CMSREF	numbers
NUCXMAP command ADGCMS, ADRCMS	arithmetic on SPIREF
conversion considerations CMSMIG	checking with DATATYPE SPIREF
description CMSREF	comparing SPIUG
description of enhancements CMSMIG	comparison of SPIREF
FIFO option CMSREF	definition SPIREF
LIFO option CMSREF	description of SPIREF
	determining the sign SPIUG
STACK option CMSREF	
null line	dividing EXEC2
	exponential notation SPIUG fixed point SPIUG
entering to determine environment CMSUG	•
	floating point SPIUG
input data from terminal CMSUG	formatting for display SPIREF in DO instruction SPIREF
to resume program execution after	
attention interruption CMSUG	in prefix area, setting on PRIMER
when entering VSAM extents CMSREF	multiplying EXEC2
when entering VSAM extents in	power of SPIUG
CMS/DOS CMSREF	range EXEC2
clauses SPIREF, SPIUG	range of SPIUG
entry INST	rounding SPIUG
instruction	size and treatment EXEC2
See NOP instruction	truncating SPIREF, SPIUG
statement EXEC2	types of SPIUG
strings SPIREF	use in the language SPIREF
used to replace trailing blanks XEDIT	whole SPIUG
null operand	numeric
of QUERY command SYSCMD	instruction SPIREF
of SET command SYSCMD	option of PARSE instruction SPIREF
NULLKEY XEDITUG	settings saved during subroutine calls
NULLKEY option	SPIREF
of SET PAn XEDIT	NUMERIC DIGITS instruction SPIUG
of SET PFn XEDIT	NUMERIC FUZZ instruction SPIUG
NULLS command of DMS/CMS APGDE	numerical order sorting CMSLQT
NULLS option	n, variable
of EXTRACT XEDIT	described GENCMD, SYSCMD
of QUERY XEDIT	n, variable
of SET XEDIT	described GENCMD, SYSCMD
of TRANSFER XEDIT	
NUM data type EXEC2	

0	a GCS IPCS map DIAG
U	CPTRAP status DIAG
11	free storage ADRCMS
object code maintained, definition SERV	OFF operand
object code only, definition SERV	of ADSTOP command GENCMD
object code service	of CACHE command SYSCMD
SNA products	of MONITOR command SYSCMD
Apply List SERV	of NETWORK command SYSCMD
corrective service procedure SERV	of PRINT subcommand IPCSREF
emergency fixes using ZAPs SERV	of SELECT subcommand IPCSREF
Exclude List SERV	of SET command SYSCMD
Merge Log SERV	of SPMODE command SYSCMD
merge multiple PTFs SERV	of SPOOL command GENCMD
merge single PTF SERV	of START command SYSCMD
preventive service procedure SERV	of TRACE command GENCMD
Product Parameter File SERV	OFF subcommand
Remove List SERV	of TESTCOB command APGDE
remove multiple PTFs SERV	of TESTFORT command APGDE
remove single PTF SERV	office task program product
Reqby Log SERV	DCF INTRO
Service Control File SERV	GDDM INTRO
Service Log SERV	PROFS INTRO
types of disks used SERV	OFFLINE operand
ZAP List SERV	of NETWORK command SYSCMD
ZAP Log SERV	
VM/SP HPO	of QUERY command SYSCMD
patches SERV	of VARY command ADMIN, SYSCMD
PUT/COR procedure SERV	offsetting text CMSUG
ZAPs SERV	OID OF RESOURCE field in FILEPOOL
object deck, assembler, generating CMSREF	FORMAT AUDIT output SFSAD
object, definition SERV	OL option of LKED command APGDE,
object files for a national language SFPROG	CMSREF
object modules APGDE	OLDDATE option
loading APGDE	of COPYFILE command CMSREF
nonrelocatable APGDE	of DISK LOAD command CMSREF
page boundaries SERV	OLDDATE parameter
relocatable APGDE	DMSFILEC (SFS Filecopy) ADRCMS
OBJECT option of ASSEMBLE command	OLDNAME parameter, product parameter file
CMSREF	override area SERV
object program, defined INTRO	OLTSEP PLNGDE
obliterating a file <b>PRIMER</b>	ON operand
obtaining	of CACHE command SYSCMD
See also getting	of MONITOR command SYSCMD
additional or related help CMSREF	of PRINT subcommand IPCSREF
a copy of a DIAG	of SELECT subcommand IPCSREF
communication controller dump DIAG	of SET command SYSCMD
CP restart dump <b>DIAG</b>	of SPMODE SYSCMD
stand-alone dump DIAG	online
virtual machine dump <b>DIAG</b>	HELP CONPAO
	information <b>PRIMER</b>

Refer to the foldout page at the back of this book for a chart of abbreviations and their corresponding manuals.

ONLINE operand	operating system SAACOM
of NETWORK command SYSCMD	side information SAACOM
of VARY command ADMIN, SYSCMD	operating procedures <b>OPGDE</b>
open	second-level VM system RGOS
a spool file with DIAGNOSE code X'BC'	operating system (OS)
SFPROG	See OS (operating system)
directory for later use with Get Directory	Operating System/2 SAACOM
ADRCMS	operation exception
file for subsequent read or write	ACCEPT CONGREF
DMSOPEN CSL routine ADRCMS	CONNECT CONGREF
FSOPEN macro ADRCMS	DCLBFR CONGREF
OPEN macro ADGCMS	DESCRIBE CONGREF
execute format GCSREF	QUERY CONGREF
list format GCSREF	RECEIVE CONGREF
OPEN macro (BSAM/QSAM) GCSREF	RTRVBFR CONGREF
dcb address parameter GCSREF	SENDCNF CONGREF
description GCSREF	SENDCNFD CONGREF
input parameter GCSREF	SENDDATA CONGREF
mf parameter GCSREF	SENDERR CONGREF
output parameter GCSREF	SENDREQ CONGREF
updat parameter GCSREF	SETCMASK CONGREF
OPEN macro (VSAM) GCSREF	SETMASK CONGREF
acb address parameter GCSREF	SEVER CONGREF
description GCSREF	TESTCMPL CONGREF
OPEN macros OS simulation CMSUG	TESTMSG CONGREF
OPEN operand of STAT command	operation of a file pool server SFSAD
IPCSREF	operation tracing results SPIREF
OPEN statement of SQL APGDE	operational control OPGDE
OPENIBM operand of STAT command	introduction OPGDE
IPCSREF	operations
opening a file for block I/O SFSAD	DASD ADMIN
opening SFS directories	function type SYSCMD
implicit lock considerations ADGCMS	VM/SP HPO OPGDE
reflecting changes to directory ADGCMS	initiating OPGDE
OPENTYP = operand	OPERATNS PLNGDE
FSCB macro ADRCMS	operator
FSOPEN macro ADRCMS	accounting record SFSAD
use when opening a file ADRCMS	arithmetic SPIREF
OPENUSER operand of STAT command	as special characters SPIREF
IPCSREF	commands SFSAD
operand notation	accounting records generated for
for GENCB GCSREF	SFSAD
for MODCB GCSREF	CP GENCMD, SYSCMD
for SHOWCB GCSREF	overview of SFSAD
for TESTCB GCSREF	comparative SPIREF
operands GENCMD, SYSCMD	comparison SPIUG
command CMSREF	concatenation SPIREF
target as XEDITUG	considerations, SNA SFPROG
operating VSE/SP RGOS	console SFSAD
operating environment	MVS guest RGOS
for CPI communications programs	directory entry, example PLNGDI
SAACOM	duties SECUR
node services SAACOM	functions OPCDE
	spooling <b>OPGDE</b>

information area TERMREF list of SPIUG logical SFPROG, SPIREF, SPIUG NCCF station SFPROG NetView station SFPROG precedence (priorities) of SPIREF prefix SPIUG priority of SPIUG responsibilities for spooling **OPGDE** sending messages to GENCMD using parentheses SPIUG OPERATOR operand of MESSAGE command GENCMD, **SYSCMD** of MSGNOH command SYSCMD of WARNING command SYSCMD OPTCD option of FILEDEF command **CMSREF** optimizing compiler, PL/I INTRO macro XEDIT seek time SFSAD OPTION command ADGCMS **DECK option CMSREF** description CMSREF **DUMP option CMSREF ERRS option CMSREF** LIST option CMSREF LISTX option CMSREF NODECK option CMSREF NODUMP option CMSREF NOERRS option CMSREF NOLIST option CMSREF NOLISTX option CMSREF NOSYM option CMSREF NOTERM option CMSREF NOXREF option CMSREF SYM option CMSREF TERM option CMSREF XREF option CMSREF 48C option CMSREF 60C option CMSREF OPTION directory control statement for administration machines SFSAD for server machines SFSAD for user machines SFSAD for using the accounting facility **SFSAD** MVS guest RGOS

operands ACCT PLNGDE AFFINITY PLNGDE APPLMON PLNGDE BMX PLNGDE COMSRV PLNGDE CONCEAL PLNGDE CPUID PLNGDE **DEVINFO PLNGDE** DEVMAINT PLNGDE **DIAG98 PLNGDE** ECMODE PLNGDE ISAM PLNGDE LANG PLNGDE MAXCONN PLNGDE MAXDEV PLNGDE MIH PLNGDE NOVF PLNGDE PMA PLNGDE REALTIMER PLNGDE STFIRST PLNGDE SVCACCL PLNGDE SVCOFF PLNGDE SVMSTAT PLNGDE VCUNOSHR PLNGDE VIRT=REAL PLNGDE VMSAVE PLNGDE V = R PLNGDE XMEM PLNGDE 370E PLNGDE VM under VM RGOS **VSE RGOS** options **CMSREF** LOAD and INCLUDE commands, retaining CMSREF

command CMSREF

for DOS/VS COBOL compiler, specifying

performance INTRO

affinity ADMIN

assignment of OPGDE

favored execution ADMIN, OPGDE

locked pages ADMIN, OPGDE

multiple shadow table support ADMIN

preferred machine assist OPGDE

priority ADMIN, OPGDE

queue drop elimination ADMIN, OPGDE

reserved page frames ADMIN, OPGDE

shadow table bypass ADMIN

virtual machine ADMIN

Refer to the foldout page at the back of this book for a chart of abbreviations and their corresponding manuals.

virtual machine assist feature ADMIN	ORIGIN option
virtual = real ADMIN, OPGDE	of FETCH command CMSREF
VM/SP HPO OPGDE	of INCLUDE command CMSREF
setting page migration ADMIN	of LOAD command CMSREF
OPTIONS instruction SPIREF	ORIGIN = operand
OPTIONS option of DETAIL HELP CMSUG	NUCEXT SET ADRCMS
OR operand	ORing character strings together SPIREF
of SET command SYSCMD	OR, logical
OR operator SPIUG	exclusive SPIREF
OR symbol used in string target XEDIT,	inclusive SPIREF
XEDITUG	OS Indexed Sequential Access Method
ORDER BY clause of SQL APGDE	(ISAM) GENCMD
ORDER command CMSUG	
	OS linkage editor control statement
batch machine output INTRO	ALIAS statement ADGCMS
described GENCMD, SYSCMD	assigning entry point names ADGCMS
example of use INTRO	ENTRY statement ADGCMS
operands	NAME statement ADGCMS
CLASS GENCMD, SYSCMD	SETSSI card ADGCMS
DEST GENCMD, SYSCMD	OS (operating system) TERMREF
dest1 GENCMD, SYSCMD	cleanup CMSUG
dest2 GENCMD, SYSCMD	CMS support for ADGCMS
FORM SYSCMD	data sets ADGCMS
FORM form <b>GENCMD</b>	defining in CMS CMSREF
form1 SYSCMD	listing information CMSREF
form2 SYSCMD	disks
PRINTER GENCMD, SYSCMD	accessing CMSREF
PUNCH GENCMD, SYSCMD	compatibility with DOS disks
READER GENCMD, SYSCMD	ADGCMS
spoolid GENCMD, SYSCMD	determining free space ADGCMS
SYSTEM SYSCMD	extents ADGCMS
userid SYSCMD	formatting using DSF ADGCMS
* SYSCMD	using with AMSERV ADGCMS
responses GENCMD, SYSCMD	environment, resetting CMSREF
selecting files for processing CMSUG	executing INTRO
summary OPGDE, SYSCMD	files
syntax diagram, class D SYSCMD	formatted ADGCMS
usage notes GENCMD, SYSCMD	handling files on CMS disks ADGCMS
	handling files on OS/MVS disks ADGCMS
order	guest under VM/SP INTRO
of APPC/VM functions CONGREF	
of evaluation SPIUG	initial program load GENCMD
of functions in CMS IUCV SFPROG	linkage editor control statements read by
of functions in IUCV SFPROG	TXTLIB command ADGCMS
of precedence SPIUG	loading GENCMD
of processing with multiple screens	macro libraries
XEDITUG	used in assembly CMSREF
ORDER operand	macro simulation ADGCMS
of SYSPAG macro PLNGDE	macros ADGCMS, APGDE
ordered list CMSLOT, PRIMER	GET ADGCMS
ORDERED option of DATE function	PUT ADGCMS
SPIREF	PUTX ADGCMS
ORDER = operand	READ ADGCMS
CMSSTACK macro ADRCMS	WRITE ADGCMS
ORE DIAG	option of GENMOD command CMSREF

partitioned data sets See partitioned data sets (PDS) passing parameters at IPL GENCMD passing parameters to GENCMD reading data sets ADGCMS shared DASD INTRO simulated data sets ADGCMS simulated OS/MVS supervisor services **ADGCMS** simulation in CMS ADGCMS simulation, end-of-tape processing CMSUG supervisor services ADGCMS tape volume switching ADGCMS terminal sessions ADGCMS TXTLIBs ADGCMS utility programs to create CMS files from tapes created by CMSUG virtual machine example of directory entry PLNGDE example of hardware maintenance directory entry PLNGDE example of system dump directory entry **PLNGDE** OSMACRO MACLIB ADGCMS, APGDE, **CMSMIG** contents of ADGCMS, ADRCMS OSMACRO1 MACLIB ADGCMS, APGDE, **CMSMIG** non-simulated contents of ADGCMS, **ADRCMS** simulated contents of ADGCMS, ADRCMS OSPOINT subcommand of IPCSSCAN command description IPCSREF example output IPCSREF format IPCSREF functional category IPCSREF messages IPCSREF responses IPCSREF usage notes IPCSREF OSRUN command ADGCMS, APGDE, GCSREF description CMSREF, GCSREF PARM keyword CMSREF, GCSREF member operand GCSREF OSVSAM MACLIB ADGCMS, APGDE OS/MVS simulation changes to data management CMSMIG to program management CMSMIG

conversion checklist CMSMIG ESPIE macro CMSMIG **GETMAIN** macro conversion considerations CMSMIG macros CMS simulates ADGCMS, ADRCMS for assembly only ADGCMS, ADRCMS summary of support CMSMIG OSMACRO MACLIB contents of ADGCMS, CMSMIG OSMACRO1 MACLIB contents of ADGCMS, CMSMIG programming considerations ADGCMS, **CMSMIG** programming notes ADGCMS, ADRCMS resource management ADGCMS, **CMSMIG** SPIE macro CMSMIG summary of changes CMSMIG OS/VS COBOL INTRO **CSL INTRO** Compiler APGDE OS/VSAM macros ACB ADGCMS CHECK ADGCMS **ENDREQ ADGCMS ERASE ADGCMS** other CMS messages SYSMSG other languages SYSMSG **OTHERWISE** clause See SELECT instruction OTHERWISE keyword SPIUG OUTarea operand of SCREEN command GENCMD outbound communications activating CONPAO deactivating CONPAO through gateway (example) CONPAO to resource (example) CONPAO OUTMOVE default for MOVEFILE command ddname CMSREF output build routine interface, IPCS IPCSREF cancelled from terminal TERMREF controlling the filename ADGCMS device INTRO for stand-alone dump facility **DIAG** 

Refer to the foldout page at the back of this book for a chart of abbreviations and their corresponding manuals.

to storage management CMSMIG

restricted in CMS/DOS ADGCMS

display area TERMREF

files	overlay structures
altering external attributes SYSCMD	conversion considerations CMSMIG
for security audit SFSAD	OVERLAY subcommand of XEDIT command
halting SYSCMD	APGDE, XEDIT
holding SYSCMD	overlaying characters
increasing number SYSCMD	using COVERLAY XEDIT
placing current files in HOLD status	using OVERLAY XEDIT
SYSCMD	overlaying one string onto another SPIREF,
produced by ASSEMBLE command	SPIUG
ADGCMS	OVERLST tag, product parameter file SERV
purging SYSCMD	OVERLSTP tag, product parameter file SERV
forcing	OVERRIDE command
to be single spaced SYSCMD	OVERRIDE control statement ADMIN
format SPIUG	override files ADMIN
from CMS batch facility CMSUG	alternate class ADMIN
from virtual console, spooling CMSUG	creating a class override file ADMIN
linkage edit CMS DOSLIBs ADGCMS	creating product parameter override file
listings from AMSERV command ADGCMS	SERV
monitor ADMIN	defining component override area SERV
printed access method service listing	override, ALLOCATE control statement
ADGCMS	SFPROG
printer <b>DIAG</b>	overview of
records, sequencing ADGCMS	AVS commands CONPAO
repositioning SYSCMD	gateways CONPAO
restarting SYSCMD	programmable operator SFPROG
spool files <b>OPGDE</b>	TSAF commands CONPAO
changing classes SYSCMD	VM connectivity CONPAO
classes <b>OPGDE</b>	See also VM connectivity
spooling classes	between collection and network CONPAC
defining with RDEVICE macro PLNGDE	in single system CONPAO
to terminal, control IPCSREF	summary of CONPAO
terminal DIAG	terms CONPAO
byte alignment <b>DIAG</b>	within collection CONPAO
OUTPUT control statement	OVLY option
of DDR (DASD DUMP/Restore) ADMIN,	of COPYFILE command CMSREF
SFPROG	of LKED command APGDE, CMSREF
OUTPUT ddname SFSAD	OWN operand
over migration, problems related to ADMIN	of CACHE command SYSCMD
overflow rate too high ADMIN	OWNERID control statement for FILEPOOL
overflow allocation rates, definition ADMIN,	FORMAT AUDIT SFSAD
SYSMSG	ownership of a file, determining CMSLOT,
overflow, arithmetic SPIREF	PRIMER
overhead, CP (control program)	owning
reducing for I/O ADMIN	gateways CONPAO
overlap function for FORMAT/ALLOCATE	global/local resource CONPAO
program SFPROG	multiple gateways CONPAO
OVERLAY function SPIREF, SPIUG	multiple global/local resources CONPAO
	private resource CONPAO

managing ADMIN operation ADMIN paging hierarchy PLNGDE P border command PRIMER selecting the next virtual machine for page P prefix subcommand of XEDIT command migration ADMIN APGDE, PRIMER, XEDIT, XEDITUG setting options and parameters ADMIN practice exercise using XEDITUG of storage INTRO PA key TERMREF on FBA DASD SFPROG PACK option recording, FB-512 DASD ADMIN option of COPYFILE command CMSREF reserve of EXTRACT XEDIT frames for multiple users SYSCMD of QUERY XEDIT performance option setting SYSCMD of SET XEDIT SPB card ADMIN of TRANSFER XEDIT storage packaging, programs increasing space allocation ADMIN See program management swapping SYSCMD packed file tables ADMIN, SYSMSG defining record format for **XEDIT** definition ADMIN inserting XEDIT PAGE (keyword definition) IPCSREF specifying XEDIT pageable CP nucleus packing a string with X2C SPIREF locking SYSCMD pagaddr, variable pageable module, identifying and locating DIAG described GENCMD, SYSCMD pageable storage page amount used for interactive buffer allocating, FB-512 DASD ADMIN controlling ADMIN bias, maximum calculated SYSCMD for interactive buffer boundaries, object modules SERV maximum percentage set SYSCMD contiguous storage, discontiguous storage setting amount for interactive buffer **SFPROG SYSCMD** exceptions, effects of ADMIN pages operand fault, definition INTRO of BACKSPAC command SYSCMD fault assist PAGEX operand MVS/SP (Multiple Virtual Storage/System of SET command GENCMD Product) RGOS page/swap table fixed-head requests SYSCMD migration routines SYSCMD forcing SYSCMD page, variable frames ADMIN, INTRO, SYSMSG described GENCMD, SYSCMD reserved ADMIN paging SECUR unlocking those previously locked activity, reducing ADMIN **SYSCMD** interchange techniques specifying how full before migration extended storage support ADMIN **ADMIN** key DIAG considerations ADMIN locking ADMIN, SYSCMD description INTRO migration ADMIN, INTRO, SYSMSG hierarchy ADMIN activity, displaying ADMIN correction PLNGDE demand ADMIN evaluation PLNGDE description PLNGDE structure ADMIN detecting and correcting problems related problems related to ADMIN to **ADMIN** information, requesting SYSCMD hierarchy, establishing ADMIN

Refer to the foldout page at the back of this book for a chart of abbreviations and their corresponding manuals.

media ADIVIIN, SYSIVISG	name screen APGDE
overview INTRO	option in ISPF APGDE
performance considerations PLNGDE	size screen APGDE
preferred paging area INTRO	PANEL command of DMS/CMS APGDE
preferred system devices	PANEL parameter of ISPSTART command
Paging Storage ADMIN	APGDE
3880 Storage Control System ADMIN	PANELID command APGDE
space, allocating INST	paragraph tag CMSLOT, PRIMER
storage ADMIN, SYSMSG	parallel sessions CONPAO
system programmer considerations ADMIN	parameter addressability CONGREF
using a 3880 Model 13 or Model 23 for	parameter communication architecture APGDE
ADMIN	parameter lists EXEC2, GCSREF
using the SYSPAG macro to control	APPC/VM
ADMIN	CONNECT CONGREF
using the SYSXSTOR macro to control	RECEIVE CONGREF
ADMIN	SENDCNF CONGREF
variables	SENDCNFD CONGREF
how to display and set ADMIN	SENDDATA CONGREF
PAGING ALL operand	SENDERR CONGREF
of INDICATE command SYSCMD	SENDREQ CONGREF
PAGING operand	SEVER CONGREF
of QUERY command ADMIN, SYSCMD	DIAGNOSE code
of SET command ADMIN, SYSCMD	X'DC', subcode X'00' SFPROG
Paging Storage ADMIN	extended ADGCMS, SPIREF
allocating	building ADRCMS
SYSPAG macro PLNGDE	for data to be included in CPTRAP file
SYSXSTOR macro PLNGDE	DIAG
considerations ADMIN	format ADGCMS
determining the amount of ADMIN	IUCV
diagnostic aids ADMIN	ACCEPT CONGREF, SFPROG
displaying ADMIN	CONNECT SFPROG
migration considerations ADMIN	DCLBFR CONGREF
monitor support ADMIN	DECLARE BUFFER SFPROG
SYSPAG macro ADMIN	DESCRIBE CONGREF, SFPROG
SYSXSTOR macro ADMIN	parameter list data SFPROG
using DDR ADMIN	PURGE SFPROG
using DDR with ADMIN	QUIESCE SFPROG
<del></del>	•
using the SYSPAG macro ADMIN using the SYSXSTOR macro ADMIN	RECEIVE SFPROG REJECT SFPROG
PAGING WAIT operand	REPLY SFPROG
of INDICATE command SYSCMD	RESUME SFPROG
·	
PAn option of EXTRACT XEDIT	RTRVBFR CONGREF
	SEND SFPROG
of QUERY XEDIT	SET CONTROL MASK SFPROG
of SET XEDIT	SET MASK SFPROG
panels	SETCMASK CONGREF
See also ISPF (Interactive System	SETMASK CONGREF
Productivity Facility)	SEVER SFPROG
definitions (ISPF) APGDE	TEST COMPLETION SFPROG
formatter in DMS/CMS APGDE	TESTCMPL CONGREF
HELP INTRO	TESTMSG CONGREF
interactive INTRO	tokenized SPIREF
libraries (ISPPLIB) APGDE	trace formatter IPCSREF
manager in DMS/CMS APGDE	VMCPARM SFPROG
name in DMS/CMS APGDE	setting up CMSMIG

tokenized ADGCMS PARSECMD command CMSMIG tokenized, building ADRCMS description CMSREF using the SCAN macro to build format CMSREF **ADGCMS** messages CMSREF parameters operands **APPC** APPLID CMSREF on ALLOCATE CONGREF NOTYPE CMSREF on CONFIRM CONGREF STRING CMSREF on CONFIRMED CONGREF TYPE CMSREF on DEALLOCATE CONGREF uniqueid CMSREF on RECEIVE AND WAIT CONGREF usage notes CMSREF on REQUEST\_TO\_SEND CONGREF PARSECMD macro on SEND\_DATA CONGREF APPLID = operand ADRCMS on SEND\_ERROR CONGREF EPLIST = operand ADRCMS MSGBUFF = operand ADRCMS changing SET SRM PGFULL ADMIN MSGDISP = operand ADRCMS SET SRM PGMTLIM ADMIN parsing command arguments ADRCMS extended APGDE PLIST = operand ADRCMS initialization translating command arguments ADRCMS TRANSL = operand ADRCMS See start-up parameters IUCV, specifying SFPROG TYPCALL = operand ADRCMS passing to virtual operating system PARSECMD macro (continued) **GENCMD** UNIQID = operand ADRCMS Parser Validation Code Table ADRCMS setting page migration ADMIN PARSERCB macro tokenized APGDE tuning, for AVS CONPAO expansion ADRCMS parent minidisk of read-only extension generating a DSECT for PARSECMD **CMSREF** control block ADRCMS parentheses SPIUG PARSERUF macro adjacent to blanks SPIREF expansion ADRCMS generating a mapping to parser interface before option list CMSREF in expressions SPIREF **ADRCMS** in function calls SPIREF parsing SPIREF in parsing templates SPIREF arguments SPIUG parent, of read-only extension CMSUG command arguments ADRCMS **PARM** data when you are prompted SPIUG keyword of OSRUN command CMSREF definition SPIREF PARM operand expressions SPIUG of IPL command GENCMD facility ADGCMS PARMRGS operand See also DLCS (Definition Language for of NAMESYS macro PLNGDE Command Syntax) PARMS option of DETAIL HELP CMSUG calling from an exec CMSREF PARSE ARG instruction SPIUG variables returned to EXEC CMSREF PARSE instruction SPIREF, SPIUG general rules SPIREF PARSE macro XEDIT introduction SPIREF PARSE PULL instruction SPIUG literal patterns SPIREF PARSE VALUE instruction SPIUG multiple strings SPIREF PARSE VAR instruction SPIUG patterns SPIREF positional patterns SPIREF selecting words SPIREF

Refer to the foldout page at the back of this book for a chart of abbreviations and their corresponding manuals.

tempiates	rassifiko command intro
in ARG instruction SPIREF	PASSTHRU EXEC, example RGOS
in PARSE instruction SPIREF	password APGDE, SECUR
in PULL instruction SPIREF	accepted TERMREF
use of a period SPIUG	access SECUR
using literal patterns SPIUG	access mode GENCMD
using patterns SPIUG	auto-deactivation ADMIN
variable patterns SPIREF	defining for VSAM catalogs ADGCMS
variables SPIUG	entry in communications directory for
words SPIUG	requester CONPAO
part, definition SERV	for logging on CMSLOT
partial audit SFSAD	for VSAM catalogs in CMS/DOS
partition	ADGCMS
size specified for execution in CMS/DOS	for VSAM catalogs in OS ADGCMS
ADGCMS	for your virtual machine CMSUG
specifying in OS/VS1 system OPGDE	hiding during logon procedure GENCMD
partitioned data sets (PDS)	invalid SECUR
copying into CMS files ADGCMS, CMSREF	invalid format on commandline precaution
copying into partitioned data sets CMSREF	GENCMD
specifying members with FILEDEF command	management in RACF SECUR
ADGCMS	masking GENCMD
displaying member names CMSREF	minidisk access INTRO
listing members of CMSREF	needed for file pool minidisks SFSAD
partitioned processing mode, definition ADMIN,	NOLOG OPGDE
SYSMSG	not accepted TERMREF
partners CONGREF, SAACOM	replacing directory entry SFPROG
communication CONPAO	required TERMREF
See also communication, partner	restricted SECUR
partner_LU_name characteristic	restricted, list of <b>PLNGDE</b>
extract SAACOM	security TERMREF
length SAACOM	specifying requester program's in CP directory
possible values SAACOM	CONPAO
set SAACOM	supplying on LINK command line CMSUG
Pascal language	
<b>5 5</b>	suppression SYSCMD
example call to CSL routine ADRCMS	suppression on command line ADMIN,
example program calling DMSERP	CMSUG
ADRCMS	unauthorized PLNGDE
PASS option	validation of SECUR
of PER Command GENCMD	verification through the LOGON command
PASSMOD EXEC INST	GENCMD
Pass-Through Facility (PVM)	password operand
See PVM (VM/Pass-Through Facility)	of AUTOLOG command SYSCMD
pass-through for MVS guest RGOS	of LOGON operand GENCMD
passing	password tag in communications directory
arguments EXEC2	CONGREF
control GCSREF	PASS = password operand
global variables between EXECs with	of LINBK command GENCMD
GLOBALV CMSUG	patch procedure SERV
parameters to virtual operating system	patch update files
GENCMD	example SERV
PASSTHRU	general description SERV
time-out limit of RGOS	NAME statement SERV
using with VSE/SP RGOS	REP statement SERV

statements in XEDIT PRIMER NAME SERV practice exercise using XEDITUG **REP SERV** used instead of SET NULLS ON XEDIT VER SERV PB operand VER statement SERV of QUERY command SYSCMD path CONGREF of SET command SYSCMD APPC/VM communications CONGREF PCF (Problem Control Facility) INTRO between SNA console and virtual machine PCI operand **GCSREF** of QUERY command SYSCMD console ADGCMS of SET command SYSCMD IUCV control SECUR, SFPROG PC/VM Bond GIM, INTRO information DIAG PD option of DSERV command CMSREF speed of CONPAO PDS option status between VTAM and VM CONPAO of LISTDS command CMSREF to a DASD ADMIN of MOVEFILE command CMSREF path ID block DIAG PDS (partitioned data sets) path operand of FDISPLAY subcommand copying files into CMS files CMSREF **IPCSREF** copying into partitioned data sets PATHID parameter **CMSREF** ACCEPT function CONGREF displaying member names CMSREF of RECEIVE CONGREF listing members of CMSREF of SENDCNF CONGREF PEEK command CMSLOT of SENDCNFD CONGREF description CMSREF example of use INTRO of SENDDATA CONGREF PF key settings CMSREF of SENDERR CONGREF of SENDREO CONGREF PROFILE option CMSREF of SEVER CONGREF peeking at a reader file CMSLOT, PRIMER of TESTCMPL CONGREF pending interrupt, message CONGREF pathid, variable pending list XEDITUG described GENCMD, SYSCMD pending notice PRIMER 'C' or 'CC' pending... XEDIT PATHS operand of QUERY command SYSCMD 'D' or 'DD' pending... XEDIT 'DD' pending XEDITUG patterns in parsing SPIREF, SPIUG 'F' pending... XEDIT of security violations SECUR 'P' pending... XEDIT pause parameters (AVS tuning) CONPAO 'XX' pending... XEDIT PA1 program function key ADMIN, APGDE, "...." pending XEDITUG PRIMER, SFPROG, XEDIT '.....' pending... XEDIT in full-screen CMS CMSUG '< <' pending... XEDIT with DIAGNOSE code X'58' SFPROG '>>' pending... XEDIT with the programmable operator facility "" pending XEDITUG **SFPROG** "" pending... XEDIT with VSCS or VCNA SFPROG cancelling XEDITUG PA2 program function key APGDE, defining display features XEDITUG SFPROG, XEDITUG location on screen XEDITUG in full-screen CMS CMSREF 'C' or 'CC' pending XEDITUG in HELP CMSUG 'F' pending XEDITUG in the CMS window PRIMER 'M' or 'MM' pending XEDITUG 'P' pending XEDITUG

PENDING option	table <b>GENCMD</b>
of EXTRACT XEDIT	terminating DIAG, GENCMD
of SET XEDIT	trace elements
people using computer, displaying PRIMER	changing options GENCMD
PEP and NCP sharing SFPROG	changing specific trace elements
PER command CMSUG, DIAG, GENCMD	GENCMD
CMD option DIAG	merging GENCMD
COUNT subcommand DIAG	traceback table GENCMD
debugging GENCMD	traceset GENCMD
described GENCMD, INTRO	tracing interrupts <b>DIAG</b>
event types GENCMD	usage notes GENCMD
BRANCH GENCMD	using GENCMD
G[REG1] GENCMD	PER operand
INSTRUCT GENCMD	of QUERY command SYSCMD
PASS GENCMD	of QUERY (ALL) command GENCMD
STORE GENCMD	PER (Program Event Recording Facility)
GUESTR option DIAG	DIAG
GUESTV option DIAG	PERFORM class monitor records ADMIN
monitoring events GENCMD	PERFORM FAILURE code (keyword
operands	definition) IPCSREF
DAT option GENCMD	PERFORM operand
DATOFF option GENCMD	of MONITOR command SYSCMD
•	of STAT command IPCSREF
GUESTR option GENCMD GUESTV option GENCMD	PERFORM subcommand of TESTCOB
•	
options Append CENCMD	command APGDE
APPEND GENCMD	performance
BOTH GENCMD	AGWTUN ASSEMBLE file CONPAO
CMD GENCMD	APPC/VM CONGREF
COUNT GENCMD	AUTHEXIT parameter on APPL statement
DAT GENCMD	CONPAO
DATOFF GENCMD	AVS CONPAO
FROM GENCMD	AVS tuning parameters CONPAO
GUESTR GENCMD	commands to improve CONPAO
GUESTV GENCMD	configuration factors influencing RGOS
NORUN GENCMD	VM under VM RGOS
PASS GENCMD	considerations SPIREF
PRINTER GENCMD	AVS CONPAO
RANGE GENCMD	coding DMKSYS macros PLNGDE
RUN GENCMD	Extended Storage Support PLNGDE
STEP GENCMD	heavy I/O production PLNGDE
TERMINAL GENCMD	installations with large number of CMS
responses GENCMD	users PLNGDE
selectivity DIAG, GENCMD	read-only minidisks PLNGDE
storage alteration GENCMD	TSAF CONPAO
storage alteration tracing DIAG	using automatic monitoring facilities
sub-commands	PLNGDE
APPEND GENCMD	using fixed head devices for paging
COUNT GENCMD	PLNGDE
END GENCMD	degradation CONPAO
GET GENCMD	enhancements for dyadic processors with
SAVE GENCMD	store-in cache See Diagnosis Reference
TABLE GENCMD	enhancements, configuring I/O devices for an
summary OPGDE, SYSCMD	MP system See Diagnosis Reference
suspending DIAG GENCMD	for mixed mode foreground/background

systems ADMIN

for time-shared multibatch virtual machines **ADMIN** guidelines ADMIN general information ADMIN MVS/SP support RGOS line CONPAO management SFSAD monitoring SFSAD, SYSCMD measurement ADMIN mixed mode foreground/background systems **ADMIN** of an MVS or CMS guest running with 3380 DASDs ADMIN of non-paging DASD I/O with cached subsystems CONPAO of remote paths CONPAO options INTRO affinity ADMIN, OPGDE assignment OPGDE dynamic CP transition to or from native mode RGOS Extended Control-Program Support **OPGDE** favored execution ADMIN, OPGDE hardware assist OPGDE locked pages ADMIN, OPGDE multiple shadow table support ADMIN preferred machine assist OPGDE priority ADMIN, OPGDE queue drop elimination ADMIN, OPGDE reserved page frames ADMIN, OPGDE setting SYSCMD shadow table bypass ADMIN virtual machine ADMIN virtual machine assist feature ADMIN, OPGDE virtual = real ADMIN, OPGDE VM/SP HPO OPGDE problems preventing SFSAD solving SFSAD programs CONPAO using VSE/SP dialogs to monitor RGOS VM under VM RGOS

as a placeholder in parsing SPIREF, SPIUG causing substitution in variable names **SPIREF** in compound symbols SPIUG in numbers SPIREF PERM option of DLBL command CMSREF of FILEDEF command ADGCMS, APGDE, CMSREF of LABELDEF command CMSREF permanent command destination change SPIREF file definitions CMSREF storage CMSLOT, PRIMER virtual disks GENCMD permission to access a file/directory granting ADRCMS revoking ADRCMS Personal Computer Enhanced Connectivity Facilities ADGCMS, ADRCMS, APGDE, **CMSMIG** Personal Computer (PC) TERMREF color display TERMREF keyboard TERMREF monochrome display TERMREF publications TERMREF video display TERMREF personal minidisk INTRO PF (program function) keys APGDE, INTRO, TERMREF All CMSUG assigning a sequence of subcommands to **XEDIT** Backward CMSUG Brief CMSUG changing settings of XEDITUG Clocate CMSUG controlling GENCMD controlling function GENCMD Cursor CMSUG default settings on NAMES menu CMSREF on NOTE menu CMSREF

VSE RGOS

on PEEK screen CMSREF defining meaning for XEDIT definition area in full-screen CMS

**CMSUG** 

Refer to the foldout page at the back of this book for a chart of abbreviations and their corresponding manuals.

displaying settings of XEDITUG	using CMSUG, XEDITUG
displaying XEDIT settings of PRIMER	in FILELIST CMSUG
forward CMSUG	in input mode XEDIT
help CMSUG	to send notes CMSUG
in full-screen CMS	when composing a note CMSUG
Backward CMSUG	when receiving files when in
Clear Top CMSUG	RDRLIST CMSUG
Cursor CMSUG	? CMSUG
Filelist CMSUG	PFILE subcommand XEDIT
Forward CMSUG	PFn option
Help CMSUG	of EXTRACT XEDIT
Left CMSUG	of QUERY XEDIT
Pop Msg CMSUG	of SET XEDIT
Quit CMSUG	of TRANSFER XEDIT
Rdrlist CMSUG	PFnn operand
Right CMSUG	of QUERY command GENCMD
in the CMS window PRIMER	of SET command GENCMD
in WM environment	PF1 key
Backward CMSUG	in NAMES PRIMER
Clear CMSUG	in NOTEs PRIMER
Copy CMSUG	in the CMS window PRIMER
Forward CMSUG	in XEDIT PRIMER
Help CMSUG	PF10 key
Left CMSUG	in NAMES PRIMER
Maximize CMSUG	in NOTEs PRIMER
Quit CMSUG	in the CMS window PRIMER
Restore CMSUG	in the WM window PRIMER
Retrieve CMSUG	PF11 key
Right CMSUG	in DIRLIST PRIMER
Top CMSUG	in FILELIST PRIMER
initial settings of XEDITUG	in NAMES PRIMER
Morehelp CMSUG	in NOTEs PRIMER
on a DIRLIST display CMSUG	in RDRLIST PRIMER
on FILELIST screen PRIMER	in the CMS window PRIMER
on the NOTE screen PRIMER	in the WM window PRIMER
on the PEEK screen PRIMER	in XEDIT PRIMER
overrides	PF12 key
when using Interactive Interface RGOS	in NAMES PRIMER
PC, IBM TERMREF	in NOTEs PRIMER
PF Key CMSUG	in the CMS window PRIMER
Print CMSUG	in XEDIT PRIMER
Quit CMSUG	PF2 key
Related CMSUG	in FILELIST PRIMER
removing meaning from XEDIT	in NAMES PRIMER
Return CMSUG	in NOTEs PRIMER
setting CMSUG	in the CMS window PRIMER
COPY function CMSUG	PF3 key
in PROFILE EXEC CMSUG	in FILELIST PRIMER
to retrieve previous line entered	in NAMES PRIMER
CMSUG	in NOTEs PRIMER
toggling between keys CMSUG	in the CMS window PRIMER
Top CMSUG	in the WM window PRIMER
used in SCHANGE XEDIT	in XEDIT PRIMER

PF4 key **PGMSTAT** operand in HELP PRIMER of OUERY command SYSCMD in NAMES PRIMER of SET command SYSCMD in NOTEs PRIMER PGMTLIM operand in the CMS window PRIMER of QUERY command SYSCMD in the WM window PRIMER of SET command SYSCMD in XEDIT PRIMER PGMWA (program interrupt work area) PF5 kev in FILELIST PRIMER PGULOCK macro GCSREF in NAMES PRIMER description GCSREF in NOTES PRIMER reg parameter GCSREF in the CMS window PRIMER phase library PF6 kev clearing to zeros CMSREF in FILELIST PRIMER CMD/DOS CMSREF in NAMES PRIMER deleting phases from CMSREF in NOTEs PRIMER phases in the CMS window PRIMER executing in CMS/DOS CMSREF in VSE core image libraries, obtaining PF7 kev in NAMES PRIMER information about CMSREF in NOTEs PRIMER phone entry in a names file CMSLOT in the CMS window PRIMER phrase SPIUG in the WM window PRIMER phrase highlighting tags PRIMER in XEDIT PRIMER physical PF8 key swapping ADMIN, SYSMSG in NAMES PRIMER connections TERMREF in NOTES PRIMER saved segment SFPROG in the CMS window PRIMER CMSAMS INST in the WM window PRIMER **CMSBAM INST** in XEDIT PRIMER **CMSDOS INST CMSFILES INST** PF9 key in NAMES PRIMER **CMSINST INST** in NOTEs PRIMER CMSVMLIB INST in RDRLIST PRIMER **CMSVSAM INST** in the CMS window PRIMER **CMSFILES SFSAD** in XEDIT PRIMER defining in sample DMKSNT INST PG space, not enough defined ADMIN definition ADMIN, INST PGFULL operand definition file SFPROG of QUERY command SYSCMD definition file, updating SFPROG of SET command SYSCMD HELP INST PGLOCK macro DIAG, GCSREF installing INST map files INST description GCSREF reg parameter GCSREF saving SFPROG PGM parameter of ISPSTART command suggested layout in virtual storage **APGDE INST** PGMACT operand updating SFPROG of QUERY command SYSCMD security, maintaining PGMOPSW (program old PSW) DIAG controlling the real machine SECUR PGMSECT (program check interrupt work I/O hardware SECUR portable storage media SECUR area) DIAG space SFSAD

Refer to the foldout page at the back of this book for a chart of abbreviations and their corresponding manuals.

PIB buffer images	PMX (Programmable Operator/NCCF
examples ADMIN	Message Exchange) SFPROG
macro format ADMIN	See also programmable operator facility
PIBCCW macro format ADMIN	using with programmable operator OPGDE
PIBCCW macro ADMIN	POINT macro (BSAM) GCSREF
PIP data SAACOM	block address parameter GCSREF
placeholder, period, in parsing SPIUG	dcb address parameter GCSREF
planning	description GCSREF
capacity SFSAD	POINT macro (VSAM) GCSREF
command authorization ADMIN	description GCSREF
for installation INST	rpl parameter GCSREF
for VM/SP	
•	point of failure, restoring to SFSAD
device configuration INTRO	POINT option
preparing system files INTRO	of EXTRACT XEDIT
storage requirement INTRO	of QUERY XEDIT
model INTRO	of SET XEDIT
PLIOPT command, defined INTRO	of TRANSFER XEDIT
PLIST (parameter list) APGDE, SRPI	POLLDLAY operand
extended SPIREF	of NETWORK command SYSCMD
for accessing variables SPIREF	POOLDEF file
for invoking EXECs SPIREF	effect of FILESERV MINIDISK on
for invoking external routines	SFSAD
SPIREF	general description of SFSAD
extended SRPI	generation of SFSAD
pointer to CPRB SRPI	manually restoring SFSAD
tokenized SRPI	recovery tip for SFSAD
PLIST = operand	using FILESERV DEFAUDIT to
CMSCALL macro ADRCMS	modify SFSAD
PARSECMD macro ADRCMS	poor performance, correcting SFSAD
PLU (programmer logical units) assigned in	POP WINDOW command CMSUG,
CMS/DOS ADGCMS	PRIMER
plus operator SPIUG	description CMSREF
plus signs	format CMSREF
example EXEC2	messages CMSREF
removing EXEC2	operands
plus (+) and minus (-) file mode letter	n CMSREF
notation CMSUG	WM CMSREF
	wname CMSREF
PL/I PRIMER	
CSL INTRO	* (asterisk) CMSREF
debugging aid INTRO	usage notes CMSREF
description INTRO	popping
optimizing compiler example INTRO	a variable size window CMSREF
procedures or subroutines INTRO	a window CMSREF, PRIMER
PL/I language	the WM window CMSREF
example call to CSL routine ADRCMS	portability ADRCMS
example program calling DMSERP	portable storage media protection SECUR
ADRCMS	POS function SPIREF, SPIUG
PMA operand	position
of IPL command GENCMD	last occurrence of a string SPIREF
for MVS guest RGOS	of character using INDEX SPIREF
PMAV operand	of a word in a string of words EXEC2
of IPL command GENCMD, RGOS	POSITION operand
t en	of INDICATE command SYSCMD
	of TIME subsemmend IDCCDEE

POSITION WINDOW command CMSUG PRB command DIAG description CMSREF description IPCSREF format CMSREF format IPCSREF messages CMSREF messages IPCSREF operands operands IPCSREF responses IPCSREF pscol CMSREF psline CMSREF usage notes IPCSREF wname CMSREF PRBnnnn aaaaaaaa file IPCSREF PRBnnnnn conslog IPCSREF usage notes CMSREF positioning PRBnnnn dump file IPCSREF the cursor in a virtual screen CMSREF PRBnnnn operand of IPCSPRT IPCSREF windows CMSREF, PRIMER PRBnnnnn operand of IPCSSCAN IPCSREF positive seek verification SECUR PRBnnnn report IPCSREF POST macro GCSREF PRBnnnn report file IPCSREF PRBnnnnn trace IPCSREF completion code parameter GCSREF description GCSREF PRB00003 report file with status updates ecb address parameter GCSREF added IPCSREF related parameter GCSREF pre-emptive tuning SFSAD post-installation activities SFSAD pre-filling line with mask XEDIT pre-loading servers poster, CP internal trace table DIAG potential addressable space, increasing SFSAD assembler SRPI pound sign as default line end character XEDIT precedence POWER command PRIMER of characters SPIUG power failure, data protection INTRO operators SPIREF, SPIUG power of a number SPIUG preceding line as destination XEDIT precision of arithmetic SPIREF power off considerations for 3380 ADMIN predefined functions EXEC2 vs. logoff, with 3270 terminal GENCMD format of EXEC2 power typing PRIMER reserved words EXEC2 &CONCAT OF EXEC2 causing a break in data typed in XEDIT entering data with XEDIT &CONCATENATION OF EXEC2 mode &DATATYPE OF EXEC2 example of XEDITUG &DIV OF EXEC2 &DIVISION OF EXEC2 inserting characters in XEDITUG &LEFT OF EXEC2 typing data in XEDITUG using line end character in XEDITUG &LENGTH OF EXEC2 &LITERAL OF EXEC2 using a line end character XEDIT using the insert key XEDIT &LOCATION OF EXEC2 POWERINP subcommand of XEDIT &MULT OF EXEC2 command APGDE, XEDIT, XEDITUG &MULTIPLICATION OF EXEC2 description INTRO &PIECE OF EXEC2 &POSITION OF EXEC2 practice exercise using XEDITUG used with windowing support XEDIT &RANGE OF EXEC2 &RIGHT OF EXEC2 using a line end character XEDIT powers of ten in numbers SPIREF **&STRING OF EXEC2** &SUBSTR OF EXEC2 PP space, not enough defined ADMIN PQUIT subcommand XEDIT &TRANS OF EXEC2 practical maximums SFSAD practice exercise XEDITUG

Refer to the foldout page at the back of this book for a chart of abbreviations and their corresponding manuals.

&IRANSLATION OF EAEC2	preferred machine assist ADMIN, 515MSG
&TRIM OF EXEC2	attaching virtual devices SYSCMD
&TYPE OF EXEC2	benefits from guest survival RGOS
&WORD OF EXEC2	channel usage RGOS
predefined variables	configuration examples RGOS
description of EXEC2	considerations when using RGOS
reserved words EXEC2	control switch assist OPGDE, GENCMD
script &2 EXEC2	SYSCMD
& EXEC2	considerations RGOS
0 EXEC2	migration RGOS
&ARGSTRING EXEC2	starting RGOS
&BLANK EXEC2	DEDICATE directory control statement
&CMDSTRING EXEC2	PLNGDE
&COMLINE EXEC2	definition of RGOS
&DATE EXEC2	description OPGDE
&DEPTH EXEC2	device usage examples RGOS
&FILEMODE EXEC2	directory PLNGDE
&FILENAME EXEC2	directory entry RGOS
&FILETYPE EXEC2	DMKRIO PLNGDE
&FROM EXEC2	documentation RGOS
&INDEX EXEC2	enabling <b>GENCMD</b>
&LINE EXEC2	events that preferred machine assist
&LINENUM EXEC2	intercepts RGOS
&LINK EXEC2	external interrupts RGOS
&N EXEC2	guest ADMIN, SYSMSG
&RC EXEC2	guest, generating a false AP system for
&RETCODE EXEC2	RGOS
&TIME EXEC2	how it works RGOS
preferred	LINK directory control statement
auxiliary files ADGCMS	PLNGDE
channels	OPTION directory statement PLNGDE
definition of RGOS	optional on the 3033 processor RGOS
improving performance RGOS	privileged instructions RGOS
DASD area INTRO	problem determination RGOS
interface, contents of CMSMIG	PSW restart, using RGOS
interface group	resetting RGOS
advantages of ADGCMS, ADRCMS,	resetting virtual machine GENCMD
CMSMIG	restrictions GENCMD, PLNGDE
components of ADGCMS, ADRCMS,	on CP commands RGOS
APGDE, CMSMIG	for MVS guests <b>PLNGDE</b>
MVS guest	for VSE guests PLNGDE
channel considerations RGOS	general RGOS
IPL, how to <b>RGOS</b>	shadow tables, controlling RGOS
restrictions, general	standard on the 308x processor RGOS
restrictions, MVS guest RGOS	standard on the 3090 processor RGOS
special directory considerations RGOS	storage above 16 MB ADMIN
paging INTRO	T-DISK in directory PLNGDE
paging area ADMIN, SYSMSG	turning off GENCMD
allocating maximum value SYSCMD	virtual machine with affinity set for target
system paging	processor SYSCMD
Paging Storage ADMIN	with ATTACH command SYSCMD
3880 Storage Control System ADMIN	with control switch assist extensions
level updating ADGCMS	RGOS

with DEFINE command SYSCMD prefix storage area (PSA) DIAG with SET AFFINITY command finding its value SYSCMD SYSCMD prefix subcommands of XEDIT command with VARY PROC OFF command **APGDE SYSCMD** A XEDIT, XEDITUG prefix, description of SYSMSG example of XEDITUG prefix area APGDE C XEDIT, XEDITUG changing location or display XEDITUG canceling XEDITUG example of XEDITUG D XEDIT, XEDITUG controlling display XEDIT example of XEDITUG defining display features **XEDITUG** defined XEDITUG entering subcommands in XEDIT defining synonym for **XEDIT** in XEDIT PRIMER E XEDIT location on screen XEDITUG F XEDIT, XEDITUG numbers, setting on PRIMER example of XEDITUG resetting XEDIT I XEDIT simulate in typewriter mode XEDITUG list of XEDIT, XEDITUG using LPREFIX to simulate XEDIT M XEDIT, XEDITUG prefix commands example of XEDITUG A command PRIMER menu display of XEDIT C command PRIMER P XEDIT, XEDITUG CC command PRIMER practice exercise using XEDITUG D command PRIMER removing from screen XEDIT DD command PRIMER rules for entering XEDIT F command PRIMER SCALE XEDIT M command PRIMER SI XEDITUG MM command PRIMER example of XEDITUG P command PRIMER TABL XEDIT resetting PRIMER where to enter XEDITUG where to type PRIMER .xxxx XEDIT. XEDITUG / XEDIT, XEDITUG / command PRIMER " command PRIMER XEDIT PREFIXA DIAG prefix macros assigning a synonym XEDITUG PREFIXB DIAG current line positioning EXEC2 prefixes description of EXEC2 identifying sets of files examples of XEDITUG with ACCESS command CMSREF list of XEDIT prefixing menu display of XEDIT definition ADMIN, RGOS, SYSMSG rules for entering XEDIT prefix, variable described GENCMD, SYSCMD sample of EXEC2 writing EXEC2, XEDITUG pregenerated supervisors for VSE/SP prefix operators SPIUG **RGOS** PREFIX option PRELOAD command of EXTRACT XEDIT format SERV of QUERY XEDIT function SERV of SET XEDIT input SERV of TRANSFER XEDIT messages SERV prefix register, definition of RGOS operands SERV

Refer to the foldout page at the back of this book for a chart of abbreviations and their corresponding manuals.

output SERV	preventing
MAP file SERV	multiple user mode access SFSAD
TEXT file SERV	new conversations through a gateway
reformatting text files SERV	CONPAO
PRELOAD EXEC INTRO	performance problems SFSAD
premature EOF defined PRIMER	tapes, description INTRO
PREPAGE operand	prevent regression (SNA service) SERV
of QUERY command SYSCMD	preventive service
of SET command SYSCMD	definition SERV
prepaging, definition ADMIN, SYSMSG	procedure SERV
PREPARE facility of SQL/DS INTRO	SNA products
Prepare_to_Receive (CMPTR) routine	description SERV
CONGREF	example SERV
call description SAACOM	object code SERV
example flow using SAACOM	tape format SERV
PREPARE_TO_RECEIVE, APPC verb	PREVEXEC field DIAG
prepare_to_receive_type characteristic	PREVMSG (keyword definition) IPCSREF
possible values SAACOM	primary
set SAACOM	console, disabling OPGDE
preparing	system operator
AVS virtual machine CONPAO	described GENCMD, OPGDE, SYSCMD
communications directory CONPAO	description OPGDE
files for input or output	user INTRO, SFSAD
DMSOPEN CSL routine ADRCMS	prime subpool, definition ADMIN, SYSMSG
FSOPEN macro ADRCMS	primer EXEC2
first-level VM system RGOS	assignment statements EXEC2
global/local resource manager CONPAO	conditional statements EXEC2
guest VSE virtual machine RGOS	embedded blanks EXEC2
host VM system for VM/VSE RGOS	file arguments EXEC2
jobs for CMS batch facility CMSUG	for CMS SPIUG
private resource server virtual machine	function of EXEC 2 language EXEC2
CONPAO	implementation of editor macros EXEC2
second-level VM system RGOS	labels EXEC2
server virtual machine CONPAO	looping EXEC2
SYSPROF EXEC for use of	return codes EXEC2
communications directories	translating to uppercase EXEC2
CONPAO	user interaction EXEC2
system files INTRO	variables
TSAF virtual machine CONPAO	evaluation EXEC2
user programs to connect to resources	names EXEC2
CONPAO	&CASE control statement EXEC2
preprocessor for SQL/DS INTRO	&LOOP control statement EXEC2
PREREQ statement, update file SERV	PRINT command APGDE, CMSLOT,
PRESENT, logical device support facility	PRIMER
function SFPROG	and MACLIB members APGDE
preservation, virtual storage ADMIN	CC option CMSREF
PRESERVE subcommand XEDIT, XEDITUG	description CMSREF
preserving editing variables XEDITUG	for ISPF APGDE
presumed command destinations SPIREF	HEX option CMSREF
PREVCMND field DIAG	LINECOUN option CMSREF
	MEMBER option APGDE, CMSREF

NOCC option CMSREF NOTRC option CMSREF OVERSIZE option CMSREF to print CMS files CMSUG TRC option CMSREF **UPCASE** option **CMSREF** PRINT option of AMSERV command CMSREF of ASSEMBLE command CMSREF of DOSLIB command CMSREF of DOSLKED command CMSREF of DSERV command CMSREF of EXECIO command CMSREF of LKED command APGDE, CMSREF of LOADLIB command CMSREF of MACLIB command MAP function APGDE, CMSREF of PSERV command CMSREF of SCRIPT command CMSLOT of SPOOL command CMSLOT of SCRIPT PRIMER of TXTLIB command APGDE PRINT access methods services function **ADGCMS** print buffers ADMIN adding new images ADMIN associative fields ADMIN LOADBUF command ADMIN PIB buffer images ADMIN PIBCCW macro ADMIN print chain image ADMIN UCB macro ADMIN UCBCCW macro ADMIN UCC examples ADMIN UCCCCW macro ADMIN UCS (universal character set) examples ADMIN macro ADMIN **1403 ADMIN** UCSB (Universal Character Set Buffer) examples ADMIN **3211 ADMIN 3262 ADMIN** UCSCCW macro ADMIN PRINT function control statement of DDR (DASD DUMP/Restore) **ADMIN, SFPROG** sample output of DDR program **ADMIN, SFPROG** 

print file requirements for 3800 printer **GENCMD** print operand of TRAPFILE command **IPCSREF** PRINT subcommand of IPCSSCAN command description IPCSREF example output IPCSREF format IPCSREF functional category IPCSREF messages IPCSREF operands IPCSREF responses IPCSREF usage notes IPCSREF PRINT-HI command for ISPF APGDE printed copies, specifying number of **CMSLOT** printed output, controlling RGOS printer considerations for 3203-5 RGOS error, SVC 199 services IPCSREF external attribute buffer manipulation, virtual SFPROG files altering attributes of virtual GENCMD produced by job running in batch virtual machine CMSUG querying status of CMSUG spooling CMSUG font offset buffer loading INST tailoring INST forms control buffer loading INST tailoring INST format, stand-alone dump DIAG output DIAG repositioning output SYSCMD restarting output SYSCMD specifying forms controls for virtual **GENCMD** separator, spool printer output OPGDE spool, copying contents of using PF key XEDIT spooled virtual INTRO universal character set loading INST tailoring INST

virtual INTRO

PRINTER device type APGDE	FORM = operand ADRCMS
PRINTER operand	printing multiple records ADRCMS
of CHANGE command GENCMD,	specifying device characteristics ADRCMS
SYSCMD	TRC= operand ADRCMS
of CLOSE command GENCMD	writing lines to virtual printer ADRCMS
of DEFINE command GENCMD	PRINTONE IPCSREF
of DRAIN command SYSCMD	PRINTONE field IPCSREF
of FREE command SYSCMD	priority
of HOLD command SYSCMD	CURSOR subcommand XEDIT
of ORDER command GENCMD,	messages SFPROG
SYSCMD	of characters SPIUG
of PURGE command GENCMD,	of dispatching, recommendation for SFSAD
SYSCMD	of operators SPIUG
of QUERY command GENCMD,	operator's virtual machine INTRO
SYSCMD	performance option ADMIN, OPGDE
of SPOOL command GENCMD	prefix subcommands and macros XEDIT
of SPTAPE command SYSCMD	set for specific user SYSCMD
of START command SYSCMD	spooled file INTRO
of TRACE command GENCMD	virtual machine INTRO
of TRANSFER command GENCMD,	PRIORITY operand
SYSCMD	of QUERY command SYSCMD
PRINTER option	of SET command ADMIN, OPGDE,
of ASSGN command CMSREF	SYSCMD
of FILEDEF command CMSREF	PRIORITY, CP SET command RGOS
of PER command GENCMD	PRIV operand
	of TRACE command GENCMD
printing	
a file CMSLOT, PRIMER	private gateways CONPAO
access method services listings ADGCMS	activating CONPAO
CMS dump file DIAG	deactivating CONPAO
CMS files CMSUG	determining which to use CONPAO
contents of virtual machine components	general description CONPAO
GENCMD	inbound connection through dedicated
extended control registers GENCMD	(example) CONPAO
first level storage GENCMD	inbound connection through non-dedicated
floating-point registers GENCMD	(example) CONPAO
general registers GENCMD	outbound connection through (example)
HELP files CMSUG	CONPAO
lines EXEC2	private libraries
multiple copies CMSUG	See libraries, VSE
obtaining device information ADGCMS	PRIVATE NOTEBOOK CMSLOT
overview ADGCMS	private resource CMSMIG
Paging Storage ADMIN	access to CONPAO
Program Status Word (PSW) GENCMD	accessibility CONPAO
sample files INST	default authorization to access CONPAO
storage locations GENCMD	description of CONPAO
system definition files INST	determining gateway to use CONPAO
tape dump DIAG	enabling processing for CONPAO
TSAF dumps CONPAO	inbound connection to (example) CONPAO
using the PRINTL macro ADGCMS	locally known name for CONPAO
virtual storage GENCMD	LU name qualifier for CONPAO
virtual storage keys GENCMD	name space CONPAO
PRINTL macro ADGCMS	outbound connection to (example) CONPAO
CC = operand ADRCMS	registration CONPAO
CMSDEV = operand ADRCMS	resource manager
EPPOP = operand ADPCMS	See resource manager

sample communications directory entry for **CONPAO** server virtual machine CONPAO See also server, virtual machine CP directory entry CONPAO IUCV authorization to connect to **CONPAO** PROFILE EXEC CONPAO server virtual machine environment **CONPAO** target LU name for CONPAO using dedicated/non-dedicated private gateway CONPAO **\$SERVER\$ NAMES file** See NAMES file, \$SERVER private resource manager connecting to CONGREF considerations CONGREF programs CONGREF private resources INTRO access to CONGREF private storage anchor blocks (PSAB) DIAG PRIVATE storage subpools CMSMIG PRIVATE subpools ADGCMS privilege classes ADMIN, INTRO, SECUR assigning more than 8 PLNGDE assigning to commands and DIAGNOSE codes ADMIN associating with commands and users ADMIN changing ADMIN changing for internal CP functions **ADMIN** changing the definition of ADMIN defining eight or fewer ADMIN for a virtual machine ADMIN more than eight ADMIN, PLNGDE described GENCMD, SYSCMD documentation considerations ADMIN for CP commands CMSUG defined GENCMD, OPGDE, **SYSCMD** needed for file pool servers SFSAD replacing directory entry SFPROG privileged command INTRO privileged instructions ADGCMS tracing **GENCMD** 

PRMLIST parameter ACCEPT function CONGREF ACCEPT (CMSIUCV) function **CONGREF** CONNECT CONGREF of DCLBFR CONGREF of DESCRIBE CONGREF of RECEIVE CONGREF of SENDCNF CONGREF of SENDCNFD CONGREF of SENDDATA CONGREF of SENDERR CONGREF of SENDREQ CONGREF of SETCMASK CONGREF of SETMASK CONGREF of SEVER CONGREF of TESTCMPL CONGREF PROB command DIAG description IPCSREF example session IPCSREF format IPCSREF messages IPCSREF responses existing problem IPCSREF new problem IPCSREF usage notes IPCSREF PROB output field of STAT command **IPCSREF** problem analysis, synopsis of CP commands used GENCMD, SYSCMD determination CP control blocks for MVS guest RGOS CP procedures SYSMSG CP trace table for MVS guest RGOS general user action SYSMSG MVS guest, for RGOS preferred machine assist, when using RGOS problem solving for MVS guest RGOS second-level VM system RGOS service aids for MVS guest RGOS system operator action SYSMSG trace table recording facility for MVS RGOS trace table, MVS RGOS VSE/SP virtual machine RGOS identifying DIAG

Refer to the foldout page at the back of this book for a chart of abbreviations and their corresponding manuals. inquiry data sheet **DIAG** 

management IPCSREF	PROCESS subcommand of IPCSPRT
migration, investigating ADMIN	command
number assignment, IPCS IPCSREF	description IPCSREF
number, IPCS IPCSREF	example output IPCSREF
report file (PRBnnnn REPORT)	format IPCSREF
IPCSREF	functional category IPCSREF
report generation IPCSREF	messages IPCSREF
report updating IPCSREF	responses IPCSREF
reporting INTRO, IPCSREF	usage note IPCSREF
related to over migration ADMIN	processing
related to paging hierarchy structure	abend DIAG
ADMIN	AVS dump <b>DIAG</b>
related to under migration ADMIN	batch jobs
state ADMIN, SECUR	under CMS INTRO
types DIAG	VM Batch Subsystem INTRO
where to find evidence of <b>DIAG</b>	descriptions, SNA SFPROG
problem diagnosis INTRO, IPCSREF	for private resources, enabling
dumps	CONPAO
AVS CONPAO	special messages GENCMD
creating (AVS) CONPAO	tapes
creating (TSAF) CONPAO	BLP CMSUG
TSAF CONPAO	LABOFF CMSUG
system trace data	NL CMSUG
AVS CONPAO	NSL CMSUG
AVS external tracing CONPAO	TSAF dump <b>DIAG</b>
trapping entries (CPTRAP) CONPAO	unit INTRO
TSAF CONPAO	with multiple screens, order of
TSAF external tracing CONPAO	XEDITUG
viewing CPTRAP data CONPAO	processor TERMREF
Problem Control Facility (PCF) INTRO	command language INTRO
PROC files creating in CMS/DOS CMSREF	determining attached or main GENCMD
PROC operand	determining operating mode GENCMD
of ATTACH command SYSCMD	displaying use and contention for it
of DETACH command SYSCMD	SYSCMD
of SET command SYSCMD	hardware assist OPGDE
PROC statement in ISPF panels APGDE	identifying GENCMD
PROCEDURE instruction SPIREF	restrictions PLNGDE
description of SPIUG	setting identification GENCMD
EXPOSE keyword SPIUG	setting single processor mode SYSCMD
procedures	sharing usage INTRO
automated INTRO	subcommand ADRCMS
description INTRO	time
DOS/VSE, copying into CMS files	allocation INTRO
ADGCMS	providing specified percentage SYSCMD
language (REXX) interface to	timer
APPC/VM CMSMIG operating	See Diagnosis Reference
OPGDE	TOD (time-of-day) clock
VSE, copying into CMS files CMSREF	See Diagnosis Reference
Procedures Language/VM INST	use of, displaying RGOS
description INST	VM/SP HPO running different types RGOS
loading INST	processor ID CONPAO
PROCESS operand	
of QUERY command GENCMD	

Processor Recovery Management Support	MERGE SERV
channel check handler (CCH) OPGDE	NLS SERV
machine check handler (MCH) OPGDE	OVERLST SERV
missing interruption handler OPGDE	OVERLSTP SERV
processor OPGDE	RECSER SERV
PROCESSR operand	SLVI SERV
of QUERY command SYSCMD	UPDTID SERV
of VARY command SYSCMD	USEREXIT SERV
product contents directory	tailoring SERV
COR example SERV	production system IPCSREF
PUT example SERV	Professional Office System (PROFS) INTRO
product implementation table SAACOM	profile
product parameter file	AVS virtual machine CONPAO
function INST	setting up CONPAO
loading INST	checking, generic SECUR
tailoring INST	checking, generic SECUR
Product Parameter File (SNA service)	directory ADMIN
contents SERV	creating PLNGDE
definition SERV	description PLNGDE
example SERV	example PLNGDE
keyword values SERV	invoking PLNGDE
usage by	DMSNGP ASSEMBLE INST
VMFMERGE SERV	for XEDIT, creating PRIMER
VMFREMOV SERV	private resource server virtual machine
VMFZAP SERV	CONPAO
product parameter file, VM/SP HPO	SPLOAD PROFILE INST
component override area	PROFILE directory control statement
defining SERV	PLNGDE
parameters SERV	operand PLNGDE
syntax <b>SERV</b>	profilename PLNGDE
creating overrides SERV	PROFILE EXEC APGDE, CONGREF,
general description SERV	INTRO, TERMREF
override file SERV	creating CMSUG
sample file	description CMSUG
VM/SP HPO SERV	for an administration machine SFSAD
syntax SERV	for server machines SFSAD
tags	for SFS users SFSAD
APP SERV	for the AUTOLOG1 machine SFSAD
BLD SERV	IPLing MVS virtual machines RGOS
CKAUX SERV	IPLing VM/VSE RGOS
CKREQ SERV	private resource server virtual machine
CKTXT SERV	CONPAO
CNTRL SERV	sample, using REXX language CMSUG
CNTRLOP SERV	SET AUTOREAD CONPAO
COMPLST SERV	SET FULLSCREEN CONPAO
component name SERV	SET SERVER ON CONPAO
END SERV	suppressing execution of CMSREF, CMSUG
LTO SERV	TSAF CONPAO
MDA SERV	use to make EXECS storage-resident CMSUG

PROFILE EXEC file CMSLOT, PRIMER,	entry points, determining ADGCMS
TERMREF	exceptions DIAG
CMS/DOS VSAM user ADGCMS	handling CMSMIG
OS VSAM user ADGCMS	abend processing ADGCMS
PROFILE GCS CONPAO, INTRO, RGOS	interrupt
profile macro	See also Diagnosis Reference
not executing XEDIT	monitored in CP internal trace table
specifying macro name <b>XEDIT</b>	SYSCMD
used to prompt for options in XEDIT	libraries APGDE
using LOAD in XEDIT	linkage CMSMIG
in XEDIT	load, initial <b>GENCMD</b>
definition of XEDITUG	loops DIAG
example of XEDITUG	partners SAACOM
PROFILE option	requester
of NOTE command CMSREF	See user program
of PEEK command CMSREF	resource manager
of SCRIPT command CMSLOT, PRIMER	See resource, manager
PROFILE XEDIT SPIUG	sample user
PROFILE XEDIT file, creating CMSLOT	CONNECT function CONGREF
PROFS (Professional Office System) INTRO	RECEIVE function CONGREF
security SECUR	SENDDATA function CONGREF
PROG option of LISTIO command CMSREF	SEVER function CONGREF
PROGMAP command ADGCMS, CMSMIG,	security (APPC/VM) CMSMIG
CMSREF	stack APGDE
program	as a queue SPIUG
boundaries ADGCMS	as a stack SPIUG
calls SAACOM	buffer
See also program invocation	buffer, creating CMSREF
AMODESW macro ADRCMS	buffer, eliminating CMSREF
returning to caller ADRCMS	buffer, using WAITRD function to
supervisor assisted linkage ADRCMS	read lines from CMSREF
check DIAG	description of EXEC2, SPIUG
communications	DROPBUF command APGDE
APPC CONPAO	extensions (buffers) SPIUG
between programs in collection CONPAO	MAKEBUF command APGDE
between programs in collection and	placing data on ADRCMS
network CONPAO	PULL command APGDE
between programs in single VM system	PUSH command APGDE
CONPAO	putting data onto SPIUG
between VM programs CONPAO	QUEUE command APGDE
CPI CONPAO	QUEUED command APGDE
LU 6.2 protocol CONPAO	SENTRIES command APGDE
SNA CONPAO	STACK command APGDE
summary of VM support for CONPAO	taking data from SPIUG
Systems Application Architecture CONPAO	using APGDE, EXEC2, SPIUG
terminology CONPAO	&ERROR statement APGDE
using APPC/VM CMSMIG	&READ command for EXEC or
compilation SAACOM	EXEC2 APGDE
debugging APGDE	&STACK FIFO command APGDE
development	&STACK LIFO command APGDE
application development GIM	&BEGSTACK EXEC2
data base administration GIM	&STACK EXEC2
engineering/scientific GIM	server
office, text, graphics GIM	See resource, manager
directory INST	start-up processing SAACOM

making the call ADGCMS

See Diagnosis Reference overview ADGCMS See conversation, states receiving control ADGCMS status messages OPGDE register usage ADGCMS termination processing SAACOM returning to the calling program transaction CONPAO **ADGCMS** user setting up a parameter list ADGCMS SVC 202 call-type values ADGCMS See user program Program Development Facility SVC 202 parameter list handling ADGCMS See ISPF, PDF USERSAVE control block ADGCMS Program Event Recording Facility program management ADGCMS (PER) DIAG a sample scenario ADGCMS program exceptions assembling programs ADGCMS See also addressing, exception file definitions ADGCMS See also operation exception identifying macro libraries prior to See also protection exception assembly ADGCMS See also specification exception determining program entry points ACCEPT CONGREF **ADGCMS** CONNECT CONGREF displaying information about programs DCLBFR CONGREF in storage ADGCMS **DESCRIBE CONGREF** executing text files ADGCMS QUERY CONGREF generating and executing modules RECEIVE CONGREF **ADGCMS** relocatable modules ADGCMS RTRVBFR CONGREF SENDCNF CONGREF restricting a module to a particular SENDCNFD CONGREF mode ADGCMS SENDDATA CONGREF saving historic information for a SENDERR CONGREF module ADGCMS SENDREQ CONGREF specifying a residency mode for a SETCMASK CONGREF module ADGCMS specifying an addressing mode for a SETMASK CONGREF SEVER CONGREF module ADGCMS TESTCMPL CONGREF transient modules ADGCMS TESTMSG CONGREF loader control statements ADGCMS program execution APGDE loading text files ADGCMS program execution indicator (BLIP) TERMREF determining where files get loaded program function (PF) key **ADGCMS** See PF(program function) key overview ADGCMS program interrupt work area (PGMWA) DIAG packaging considerations ADGCMS program interrupt (type X'04') entry DIAG resolving external references ADGCMS program interrupts ADGCMS, CMSMIG TEXT file libraries ADGCMS See also Diagnosis Reference 370-XA mode program attributes machine check interrupt **ADGCMS** See Diagnosis Reference PROGRAM operand program invocation CMSMIG of TRACE command GENCMD direct branch linkage ADGCMS program status word (PSW) supervisor assisted linkage ADGCMS changing **GENCMD** CMSCALL call-type values ADGCMS definition of DIAG CMSCALL parameter list handling displaying **GENCMD ADGCMS** printing **GENCMD** 

Refer to the foldout page at the back of this book for a chart of abbreviations and their corresponding manuals.

states

program temporary fix (PTF)	PROPHCHK EXEC SFPROG
See PTF (program temporary fix)	PROPLGER EXEC SFPROG
program update service	PROPPCHK EXEC SFPROG
definition SERV	feedback file SFPROG
procedure SERV	helpful hints SFPROG
program update tape (PUT)	how it works INTRO
See PUT (program update tape)	initializing SFPROG
programmable operator facility INTRO,	installing SFPROG
SFPROG	CMSGEND EXEC SFPROG
abend SFPROG	PMX SFPROG
action routine interface	invoking SFPROG
call interface SFPROG	automatically SFPROG
parameter interface SFPROG	commands SFPROG
action routines SFPROG	manually SFPROG
DMSPOL SFPROG	PROPPROF EXEC SFPROG
DMSPOR SFPROG	PROPST EXEC SFPROG
DMSPOS SFPROG	issuing commands SFPROG
error message and response	LGLOPR SFPROG
handling SFPROG	action routine SFPROG
EXEC SFPROG	command SFPROG
handling console I/O SFPROG	default SFPROG
supplied SFPROG	sample command entries in RTABLE
writing SFPROG	SFPROG
assigning a logical operator SFPROG	statement SFPROG
authorization SFPROG	log file SFPROG
commands SFPROG	logging NCCF or NetView messages
CMD SFPROG	SFPROG
FEEDBACK SFPROG	logical operator SFPROG
GET SFPROG	action routine SFPROG
LGLOPR SFPROG	assigning, releasing, replacing SFPROG
LOADTBL SFPROG	command SFPROG
LOG SFPROG	default SFPROG
QUERY SFPROG	NCCF or NetView SFPROG
SET SFPROG	statement SFPROG
STOP SFPROG	message format
communication	distributed SFPROG
checking SFPROG	local SFPROG
with the network SFPROG	message output format SFPROG
debug mode SFPROG	NCCF or NetView logical operator
default SFPROG	SFPROG
definition ADMIN, SYSMSG	NetView PROP command INTRO
ensuring a complete log SFPROG	overview SFPROG
environments	flow of operation SFPROG
distributed VM SFPROG	how it works SFPROG
mixed SFPROG	in a distributed VM system SFPROG
single system SFPROG	in a mixed environment SFPROG
examples of communicating	in a single system SFPROG
distributed environment SFPROG	logical operator SFPROG
local environment SFPROG	partial routing table SFPROG
mixed environment SFPROG	PMX SFPROG
exit EXECs	abend SFPROG
communication error SFPROG	installing SFPROG
interface SFPROG	starting SFPROG
log error SFPROG	stopping SFPROG

PROPEPIF EXEC SFPROG PROPLIB LOADLIB SFPROG PROPPROF EXEC SFPROG PROPRTCV SFPROG QUERY command authorization for an NCCF operator SFPROG register conventions for invoking an action routine SFPROG relationship with RSCS Networking **SFPROG** releasing a logical operator SFPROG replacing a logical operator SFPROG restricting SFPROG authorization by nodeid SFPROG authorization by userid and nodeid **SFPROG** command use SFPROG routing entries to filter responses to commands SFPROG routing messages SFPROG routing table INTRO, SFPROG converting SFPROG entry formats and statements **SFPROG** tailoring SFPROG use SFPROG routing table entries SFPROG specifying routing texts SFPROG routing table statements HOSTCHK SFPROG LGLOPR SFPROG LOGGING SFPROG order of SFPROG PROPCHK SFPROG ROUTE SFPROG TEXTSYM SFPROG routing table (RTABLE) SFPROG shortcuts SFPROG starting SFPROG stopping SFPROG PROPEPIF EXEC SFPROG tasks SFPROG tasks performed INTRO uncontrolled authorization SFPROG use in a distributed environment OPGDE use in a distributed VM system SFPROG use in a mixed environment SFPROG

use in a single system OPGDE, SFPROG virtual machine SFPROG with IUCV SFPROG with NCCF SFPROG command authorization SFPROG routing messages to SFPROG with NetView SFPROG routing messages to SFPROG Programmable Operator/NCCF Message Exchange (PMX) SFPROG See also programmable operator facility programmed symbol sets, defining with SET COLOR XEDITUG with SET CTLCHAR XEDITUG with SET RESERVED XEDITUG programmer function type SYSCMD programmer logical units for job catalogs CMSREF listing assignments for in CMS/DOS **CMSREF** restrictions for R and T CMSREF valid assignments in CMS/DOS **CMSREF** programming SPIUG interface See also CMS (converational monitor system), programming interface assembler language to APPC/VM **CMSMIG** high-level language to APPC/VM **CMSMIG** problem diagnosis INTRO restrictions SPIREF style SPIREF techniques, examples EXEC2 programs compiling CMSLOT, PRIMER correcting SPIUG creating CMSLOT, PRIMER definition of PRIMER description of SPIUG designing SPIUG development aid, COBOL INTRO entry point selection during CMS loader processing **CMSREF** 

specifying CMSREF

executing APGDE	PROP
halting	See programmable operator facility
in CMS/DOS CMSREF	PROPCHK statement SFPROG
with INCLUDE command CMSREF	See also programmable operator facility
with LOAD command CMSREF	PROPEPIF EXEC SFPROG
input and output files, identifying	PROPHCHK EXEC SFPROG
ADGCMS	PROPLGER EXEC SFPROG
leaving SPIUG	PROPLIB LOADLIB SFPROG
libraries ADGCMS	PROPPCHK EXEC SFPROG
libraries needed for PRIMER	PROPPROF EXEC SFPROG
loaded in storage	PROPRTCV, for converting routing tables
displaying information CMSREF	SFPROG
with INCLUDE command CMSREF	
	PROP/NCCF Message Exchange
object INTRO	using with programmable operator <b>OPGDE</b>
product INTRO	PROTECT operand
PROGMAP CMSREF	of NAMESYS macro PLNGDE
retrieving	protected application environment CMSUG,
lines with SOURCELINE SPIREF	CONPAO
name of SPIREF	protected application facility, DIAGNOSE
running CMSLOT, PRIMER	code X'B0' SFPROG
sample resource CONGREF	protected QUIT XEDIT
sample user CONGREF	protected shared segment ADMIN
source INTRO	modifying GENCMD
specifying virtual partition size ADGCMS	protecting
stack INTRO	a file/directory ADRCMS
stack buffer, clearing CMSREF	files from being accessed CMSUG
starting GCSREF	variables SPIREF
stopping GCSREF	your files CMSLOT, PRIMER
update tape (PUT) INTRO	protection exception
updating, with XEDIT UPDATE option	ACCEPT CONGREF
ADGCMS	CONNECT CONGREF
written in REXX language for System	DCLBFR CONGREF
Product Interpreter CMSUG	DESCRIBE CONGREF
program, licensed	RECEIVE CONGREF
See licensed program	SENDCNF CONGREF
project management INTRO	SENDCNFD CONGREF
projected working set, definition ADMIN,	SENDDATA CONGREF
SYSMSG	SENDERR CONGREF
PROMPT RGOS	SENDREQ CONGREF
option of COPYFILE command	SETCMASK CONGREF
CMSREF	SETMASK CONGREF
option of IPCSPRT command	SEVER CONGREF
IPCSREF	TESTCMPL CONGREF
option of TRAPFILE command	protocol CONGREF
IPCSREF	half-duplex CONGREF
	LU 6.2 CONPAO
PROMPT operand	
of MAP command IPCSREF	PMX communication SFPROG
of TERMINAL command GENCMD	VMCF SFPROG
prompting	IDENTIFY SFPROG
user for data SPIUG	SEND SFPROG
in an EXEC CMSLOT	SENDX SFPROG
proofreading documents using PROFS INTRO	SEND/RECV SFPROG

PSW operand
of DISPLAY command GENCMD
of STORE command GENCMD
PSW (program status word)
comparison between System/370 and
370-XA ADGCMS, CMSMIG
conversion considerations CMSMIG
interrupt mask, manipulating
ADRCMS
Key 14 DIAG
mask, manipulating ADGCMS
definition of DIAG
displaying GENCMD
printing GENCMD
restart
preferred machine assist RGOS
single processor mode RGOS
stealing CMSMIG
psw, variable described GENCMD, SYSCMD
· · · · · · · · · · · · · · · · · · ·
PTF output field of STAT command
IPCSREF
PTF number
used in AUX file entry for update SERV
used in service file types SERV
PTF parts list
example SERV
general description SERV
PTF (program temporary fix) IPCSREF
applying DIAG
definition ADMIN, SERV,
SYSMSG
field IPCSREF
removing using VMFREMOV SERV
update level identifier use by PRELOAD
command SERV
PTFERROR operand of STAT command
IPCSREF
PTFIS operand of PRB command IPCSREF
PTFON operand of PRB command IPCSREI
PTFON operand of STAT command
IPCSREF
PTFRCVD operand of STAT command
IPCSREF
PUBLIC enrollment
at generation time SFSAD
DELETE PUBLIC command SFSAD
deleting SFSAD
ENROLL PUBLIC command SFSAD

enrolling SFSAD	of START command SYSCMD
remote use considerations for SFSAD	of TRANSFER command
verifying SFSAD	GENCMD, SYSCMD
PUBLIC parameter	PUNCHC macro ADGCMS
DMSGRANT (SFS Grant Authority)	ERROR = operand ADRCMS
ADRCMS	writing a line to a virtual punch
DMSREVOK (SFS Revoke Authority)	ADRCMS
ADRCMS	punching ADGCMS
publications for VM/SP	CMS files CMSUG
See abstracts of VM/SP manuals	jobs to batch virtual machine CMSU
pubtable RGOS	pure number
PULL command APGDE	See numbers
PULL instruction SPIREF	PURGE
description of SPIUG	IUCV function SFPROG
using SPIUG	parameter list format SFPROG
PULL option of PARSE instruction SPIREF	trace table entry format SFPROG
PULL (REXX instruction) CMSLOT,	using SFPROG
PRIMER	SPOOL system service function
punch	SFPROG
assembler punch output ddname CMSREF	PURGE command CMSUG
files	batch machine output INTRO
altering attributes of virtual <b>GENCMD</b>	described GENCMD, SYSCMD
produced by job running in batch virtual	example of use INTRO
machine CMSUG	operands
restoring to disk or directory CMSREF	ALL GENCMD, SYSCMD
repositioning output SYSCMD	CLASS GENCMD, SYSCMD
restarting output SYSCMD	DEST SYSCMD
PUNCH command	dest1 SYSCMD
description CMSREF	dest2 SYSCMD
example CMSUG	FORCE SYSCMD
HEADER card format CMSREF	FORM SYSCMD
	FORM STSCMD FORM form GENCMD
HEADER option CMSREF	
MEMBER option CMSREF	form1 SYSCMD form2 SYSCMD
NOHEADER option CMSREF	PRINTER GENCMD, SYSCMD
PUNCH device type APGDE	
PUNCH operand	PUNCH GENCMD, SYSCMD
of ASSIGN command CMSREF of CHANGE command GENCMD,	READER GENCMD, SYSCMD spoolid GENCMD, SYSCMD
SYSCMD	SYSTEM SYSCMD
of CLOSE command GENCMD	userid SYSCMD
of DEFINE command GENCMD	* SYSCMD
of DRAIN command SYSCMD	responses GENCMD, SYSCMD
of EXECIO command CMSREF	summary OPGDE, SYSCMD
of FILEDEF command CMSREF	syntax diagram, class D SYSCMD
of FREE command SYSCMD	to delete spool files CMSUG
of HOLD command SYSCMD	usage notes GENCMD, SYSCMD
of ORDER command GENCMD,	PURGE operand
SYSCMD	of CLOSE command GENCMD
of PSERV command CMSREF	of GLOBALV command CMSREF
of PURGE command GENCMD,	of SPOOL command GENCMD
SYSCMD	of SPTAPE command SYSCMD
of QUERY command GENCMD,	of START command SYSCMD
SYSCMD	PURGE parameter list SRPI
of SPOOL command GENCMD	PURGE subcommand XEDIT

of SPTAPE command SYSCMD

purges PUT subfunction of GLOBALV command reducing the number **CMSREF** when the virtual machine dispatches a PUT VSCREEN command CMSUG new address space ADMIN description CMSREF PURGESYS function ADMIN, SFPROG format CMSREF purging messages CMSREF batch jobs CMSUG option closed files GENCMD fn ft fm CMSREF closed spool files GENCMD fromlin CMSREF named saved segments SFPROG numlin CMSREF saved segments ADMIN vname CMSREF spool files GENCMD usage notes CMSREF storage resident EXECs SPIREF PUT (Program Update Tape) INTRO the batch facility **OPGDE** updates from Level One Support Center purpose of GCS in VM/SP GCSREF **INST** PUSH command APGDE PUTD subcommand XEDIT PUSH instruction SPIREF, SPIUG with DBCS strings XEDIT of XEDIT command APGDE PUSH option of NUCXLOAD command **CMSREF** putting PUT command CMSLOT data into a file CMSLOT PUT descriptor file data onto the program stack SPIUG example SERV messages in a file PRIMER function SERV warnings in a file PRIMER PUT macro ADGCMS words into variables SPIUG PUT macro (QSAM) GCSREF PUTX macro ADGCMS area address parameter GCSREF **PVCENTRY** macro dcb address parameter GCSREF See also PARSERCB macro description GCSREF expansion ADRCMS PUT macro (VSAM) GCSREF generating DSECT for Parser Validation description GCSREF Code Table entry ADRCMS rpl parameter GCSREF PVM (VM/Pass-Through Facility) GIM, PUT SCREEN command CMSUG INTRO, RGOS description CMSREF abend in SECUR format CMSREF safely terminating session SECUR messages CMSREF dump INTRO HELP files IPCSREF option fn ft fm CMSREF Load Map IPCSREF usage notes CMSREF restrictions imposed by **XEDIT** PUT subcommand of XEDIT command to PVM ABEND SECUR APGDE, XEDIT, XEDITUG to Remote 4300 ABEND SECUR in typewriter mode XEDITUG PVM MAP IPCSREF practice exercise using XEDITUG PVMIPCS MAP IPCSREF example of XEDIT with DBCS strings XEDIT

Refer to the foldout page at the back of this book for a chart of abbreviations and their corresponding manuals.

Q	loadall operand GCSREF
	loademd operand GCSREF
QBE (query by example) INTRO	loadlib operand GCSREF
QDROP operand	lock operand GCSREF
	NAMES option CMSLOT, PRIMER
of QUERY command ADMIN, SYSCMD	operands
of SET command ADMIN, OPGDE,	See QUERY command operands
SYSCMD	programmable operator SFPROG
QDROP option SYSCMD	proportion of file space used CMSUG
QMF (Query Management Facility) INTRO	query CMSPF keys CMSUG
QQUIT subcommand of XEDIT command	query status of CP SET MSG function
APGDE, CMSLOT, PRIMER,	CMSUG
XEDIT, XEDITUG	reply operand GCSREF
in typewriter mode XEDITUG	responses GENCMD, SYSCMD
QRY operand	search operand GCSREF
of IMMCMD macro ADRCMS	STORAGE option CMSLOT, PRIMER
QSAM tape end-of-volume ADRCMS	summary OPGDE, SYSCMD
QUALIFIED OBJECT NAME field	syntax diagram
in FILEPOOL FORMAT AUDIT output	class A SYSCMD
SFSAD	
qual, variable	class B SYSCMD
described GENCMD, SYSCMD	class C SYSCMD
quantum, definition ADMIN, SYSMSG	class D SYSCMD
quasi ownership of files SFSAD	class E SYSCMD
QUERY action routine SFPROG	class F SYSCMD
QUERY ACCESSED command CMSLOT,	TABS option CMSLOT
CMSUG, PRIMER	TSAF CONPAO
QUERY ALIAS command CMSUG	userid option CMSLOT
QUERY AUTODUMP command DIAG	USERS option CMSLOT, PRIMER
format DIAG	QUERY command operands
QUERY AUTOSAVE command PRIMER	ACTIVE SYSCMD
QUERY BLIP command CMSMIG	AFFINITY SYSCMD
-	ALL GENCMD, SYSCMD
query by example (QBE) INTRO	ATTACH SYSCMD
QUERY CACHE command ADMIN	CACHE ADMIN
QUERY command DIAG, GCSREF,	CHANNELS GENCMD
TERMREF	CLASS GENCMD, SYSCMD
AUTOSAVE option CMSLOT	class F SYSCMD
class G GENCMD	CONSOLE GENCMD
defined INTRO	CPASSIST SYSCMD
description of ADGCMS, GCSREF,	CPLANG SYSCMD
GENCMD, SYSCMD	CPLEVEL GENCMD
disk operand GCSREF	CPTRAP SYSCMD
display color and extended highlight values	ALL SYSCMD
CMSUG	ID SYSCMD
display search order CMSUG	RECEIVER SYSCMD
dlbl operand GCSREF	SET SYSCMD
etrace operand GCSREF	trapid SYSCMD
example	trapset SYSCMD
using PSTOR operand ADMIN	
of use INTRO	USER SYSCMD
filedef operand GCSREF	CPTRAP TYPE SYSCMD
group operand GCSREF	ALL SYSCMD
itrace operand GCSREF	DATA SYSCMD
how much space is on a minidisk CMSUG	GT SYSCMD
	INFILE SYSCMD

INTABLE SYSCMD IO SYSCMD TTABLE SYSCMD typenum SYSCMD CPUID GENCMD CURRENT SYSCMD DASD GENCMD, SYSCMD DEST GENCMD, SYSCMD **DUMP SYSCMD** DSPSLICE SYSCMD FILES GENCMD, SYSCMD FORM SYSCMD FORM form **GENCMD** FREE SYSCMD GRAF GENCMD, SYSCMD HOLD GENCMD, SYSCMD **IB SYSCMD** IBUFF SYSCMD JOURNAL SYSCMD LINES GENCMD, SYSCMD LINKS GENCMD Lnnn SYSCMD LOGMSG SYSCMD lprt SYSCMD MAXPP SYSCMD MAXWSS SYSCMD MINNUMSS SYSCMD MINWS SYSCMD MITIME ADMIN, SYSCMD NAMES GENCMD, SYSCMD NOHOLD GENCMD, SYSCMD null SYSCMD OFFLINE SYSCMD PAGING ADMIN, SYSCMD PATHS SYSCMD PB SYSCMD PCI SYSCMD PER SYSCMD PFnn GENCMD PGFULL SYSCMD PGMACT SYSCMD PGMSTAT SYSCMD PGMTLIM SYSCMD PREPAGE SYSCMD PRINTER GENCMD, SYSCMD PRIORITY SYSCMD PROCESS GENCMD PROCESSR SYSCMD

PSTOR ADMIN, SYSCMD PUNCH GENCMD, SYSCMD QDROP ADMIN, SYSCMD raddr SYSCMD READER GENCMD, SYSCMD RESERVE SYSCMD SASSIST SYSCMD SCREEN GENCMD SECUSER GENCMD SET ADMIN, GENCMD SPMODE GENCMD, SYSCMD spoolid GENCMD, SYSCMD SRM ADMIN, SYSCMD SRM PGMACT ADMIN STATUS SYSCMD STORAGE GENCMD, SYSCMD SYSHOLD GENCMD, SYSCMD SYSTEM SYSCMD SYSVIRT SYSCMD S370E GENCMD, SYSCMD TAPES GENCMD, SYSCMD TBL GENCMD, SYSCMD TDSK SYSCMD TERMINAL GENCMD TIME GENCMD traceset-name SYSCMD UR GENCMD, SYSCMD USERHOLD GENCMD, SYSCMD userid SYSCMD USERS SYSCMD vaddr **GENCMD** VECTOR ADMIN, SYSCMD VIRTUAL GENCMD, SYSCMD VMSAVE ADMIN, GENCMD volid SYSCMD \* GENCMD, SYSCMD QUERY CPLANG command CMSUG responses GENCMD QUERY CPTRAP command DIAG QUERY CPTRAP command (CP) CONPAO QUERY CPUID command response GENCMD QUERY CSLLIB command CMSMIG QUERY DEV/FILE operand of TAG command GENCMD QUERY DISABLE operator command **SFSAD** QUERY DISK command CMSMIG

PSF GENCMD, SYSCMD

QUERY EXECTRAC command SPIREF

QUERY FILEDEF command	QUERY PUNCH command
determining what file definitions are in	responses GENCMD
effect ADGCMS	QUERY READER command
QUERY FILEPOOL CONFLICT command	responses GENCMD
CMSUG, SFSAD	QUERY RING XEDITUG
QUERY FILEPOOL STATUS command	QUERY SCREEN command
instructions for using SFSAD	responses GENCMD
reference information for SFSAD	QUERY SEARCH command CMSMIG
using to determine when reorganization is	QUERY SECUSER command
needed SFSAD	responses GENCMD
QUERY FILES command	QUERY SEGMENT command CMSMIG
response GENCMD	displaying information about ADGCMS
QUERY function of IUCV CONGREF	QUERY SET command RGOS
condition codes CONGREF	response GENCMD
program exception CONGREF	QUERY SPMODE command
query function, DIAGNOSE code X'EC'	responses GENCMD
SFPROG	QUERY SRM command DIAG
QUERY IUCV function SFPROG	QUERY SRM PGMACT command PLNGDE
trace table entry format SFPROG	QUERY subcommand of XEDIT command
using SFPROG	APGDE, XEDIT
QUERY LANGLIST command CMSUG	options XEDIT
QUERY LANGUAGE command CMSUG	QUERY S370E command
QUERY LIBRARY command CMSMIG	responses GENCMD
QUERY LIMITS command CMSLOT,	QUERY TABS XEDITUG
CMSUG, PRIMER, SFSAD	in typewriter mode XEDITUG
QUERY LINKS command	practice exercise using XEDITUG
responses GENCMD	QUERY TABS command PRIMER
QUERY LOCK command CMSLOT, CMSUG,	QUERY TERMINAL command
PRIMER	response GENCMD
QUERY LOGMSG command	QUERY TIME command
responses GENCMD	response GENCMD
QUERY LRECL XEDITUG	QUERY USERID command
QUERY MACLIB command ADGCMS	responses GENCMD
Query Management Facility (QMF) INTRO	QUERY USERS command
QUERY NAMES command	responses GENCMD
	QUERY USERS userid command
responses GENCMD QUERY operand	responses GENCMD
•	QUERY VECTOR command OPGDE
of CACHE command ADMIN, SYSCMD of DISABLE command SYSCMD	QUERY VIRTUAL CHANNELS command
	-
of NETWORK command SYSCMD	response GENCMD
QUERY operand of IMMCMD command	QUERY VIRTUAL command
CMSREF	operands CHANNELS GENCMD
QUERY PER command	
responses GENCMD	CONSOLE GENCMD
QUERY PF command PRIMER, XEDITUG	DASD GENCMD
QUERY PFnn command	GRAF GENCMD
responses GENCMD	LINES GENCMD
QUERY POINT XEDITUG	STORAGE GENCMD
QUERY PRINTER command	TAPES GENCMD
responses GENCMD	UR GENCMD
QUERY PROCESSR command	vaddr GENCMD
responses GENCMD	QUERY VIRTUAL CONSOLE command
	response GENCMD

QUERY VIRTUAL DASD command	QUEUED command APGDE
responses GENCMD	QUEUED function SPIREF
QUERY VIRTUAL GRAF command	QUEUES operand
responses GENCMD	of INDICATE command SYSCMD
QUERY VIRTUAL LINES command	quickly stopping AVS CONPAO
responses GENCMD	QUIESCE
QUERY VIRTUAL STORAGE command	IUCV function SFPROG
responses GENCMD	parameter list format SFPROG
QUERY VIRTUAL TAPES command	trace table entry format SFPROG
responses GENCMD	using SFPROG
QUERY VIRTUAL UR command	VMCF function SFPROG
responses GENCMD	QUIESCE command
QUERY VMSAVE command	when not to use RGOS
responses GENCMD	QUIET operand
QUERY (ALL) command	of SET command SYSCMD
operands	QUIT command CMSLOT, PRIMER
CPLANG GENCMD	QUIT command of VS FORTRAN interactive
LOGmsg GENCMD	debug APGDE
Names GENCMD	QUIT subcommand of IPCSPRT command
PER GENCMD	description IPCSREF
userid GENCMD	format IPCSREF
Users GENCMD	functional category IPCSREF
responses GENCMD	messages IPCSREF
querying	response IPCSREF
a lock on a file or directory CMSLOT,	sample output IPCSREF
PRIMER	usage notes IPCSREF
an address SFPROG	QUIT subcommand of IPCSSCAN command
spool file characteristics GENCMD	description IPCSREF
system feature, condition, or event <b>DIAG</b>	example output IPCSREF
queue	format IPCSREF
counting lines in SPIREF	functional category IPCSREF
described SPIUG	messages IPCSREF
reading from with PULL SPIREF	response IPCSREF
slice ADMIN, SYSMSG	usage notes IPCSREF
writing to with PUSH SPIREF	QUIT subcommand of XEDIT command
writing to with QUEUE SPIREF	APGDE, XEDIT, XEDITUG
QUEUE command APGDE	protected XEDIT
queue drop	unprotected XEDIT
definition ADMIN, SYSMSG	versus QQUIT XEDIT
elimination ADMIN, OPGDE	in typewriter mode XEDITUG
monitored in CP internal trace table	to terminate an edit session CMSUG
SYSCMD	quitting multiple files XEDIT
queue drop elimination option of SET command	quotation marks SPIUG
INTRO	in EXECs PRIMER
QUEUE instruction SPIREF, SPIUG	THE DESIGNATION OF THE PARTY OF
queue-add	

definition ADMIN, SYSMSG

Refer to the foldout page at the back of this book for a chart of abbreviations and their corresponding manuals.

QUOTE parameter of SQL APGDE QVM command described SYSCMD operands NORETURN SYSCMD userid SYSCMD summary OPGDE, SYSCMD

syntax diagram, class A SYSCMD usage notes SYSCMD Q1 operand of SET command SYSCMD Q2 operand of SET command SYSCMD

R	range
••	defining <b>XEDIT</b>
R border command PRIMER	of numbers SPIUG
RACF (Resource Access Control Facility)	of operation of subcommands, defining
ADMIN, SECUR	XEDITUG
access control	RANGE option
by disk access SECUR	of EXTRACT XEDIT
benefits of SECUR	of PER command GENCMD
exits SECUR	of QUERY XEDIT
optional features	of SET XEDIT
general resource protection SECUR	of TRANSFER XEDIT
generic profile checking SECUR	range, variable
global access checking SECUR	described GENCMD, SYSCMD
RACF exits SECUR	rates
	migration ADMIN
RACF report writer SECUR	RC (return code)
real-time violation notification SECUR	not set during interactive debug SPIREI
security category checking SECUR	set by host commands SPIREF
security level checking SECUR	set to 0 if commands inhibited SPIREF
report writer SECUR	special variable SPIREF, SPIUG
raddr TERMREF	RCHANNEL macro RGOS
definition TERMREF	example PLNGDE
raddr operand	format PLNGDE
of ARIOBLOK subcommand IPCSREF	operands
of ATTACH command SYSCMD	ADDRESS PLNGDE
of BACKSPAC command SYSCMD	CHTYPE PLNGDE
of CACHE command SYSCMD	RCHBLOK DIAG, SYSCMD
of DEFINE command SYSCMD	creating PLNGDE
of DETACH command SYSCMD	generated label PLNGDE
of DISABLE command SYSCMD	RCODE (keyword definition) IPCSREF
of DRAIN command SYSCMD	RCTLUNIT macro ADMIN
of ENABLE command SYSCMD	channel errors PLNGDE
of FLUSH command SYSCMD	coding to support the 3880 Storage
of HALT command SYSCMD	Subsystem PLNGDE
of LOCATE command SYSCMD	configuration aid PLNGDE
of MONITOR command SYSCMD	example PLNGDE
of REPEAT command SYSCMD	format PLNGDE
of RIOBLOK subcommand IPCSREF	operands
of SET command SYSCMD	ADDRESS PLNGDE
of SHUTDOWN command SYSCMD	ALTCH PLNGDE
of SPACE command SYSCMD	CUTYPE PLNGDE
of START command SYSCMD	FEATURE PLNGDE
of VARY command SYSCMD	UCW PLNGDE
raddr, variable	xxx-DEVICE feature PLNGDE
described GENCMD, SYSCMD	RCUBLOK DIAG, SYSCMD
RANDOM function SPIREF, SPIUG	addressing PLNGDE
random number function of RANDOM	creating PLNGDE
SPIREF	label generated PLNGDE
RANGE keyword of PER command DIAG	RCVRID operand
	of NAMESYS macro PLNGDE
	OF INAMES IS MACIO FLATURE

Refer to the foldout page at the back of this book for a chart of abbreviations and their corresponding manuals.

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READ ONLY access SECUR READ parameter DMSGRANT (SFS Grant Authority) **ADRCMS** DMSOPEN (SFS Open) ADRCMS read password for ISPF APGDE read pointers, resetting ADRCMS READ subcommand XEDIT reading system dump spool file with DIAGNOSE code X'34' SFPROG system symbol table with DIAGNOSE code X'38' SFPROG read-only extensions editing files on CMSREF using CMSUG read-only restrictions when accessing another user's directory CMSMIG READCARD command restriction in CMS batch facility CMSUG used to assign file mode numbers CMSUG reader CMSLOT description of PRIMER discarding a file from PRIMER displaying information about **PRIMER** files discarding CMSLOT peeking at CMSLOT receiving CMSLOT renaming CMSLOT replacing CMSLOT altering attributes of virtual GENCMD altering external attributes SYSCMD holding user files in CMSUG PEEK at a file in CMSREF peeking at PRIMER receiving a file from PRIMER receiving a note from PRIMER virtual defined INTRO handling input files INTRO READER device type APGDE READER operand of ASSGN command CMSREF restriction in job for CMS batch facility CMSUG of CHANGE command GENCMD.

of CLOSE command GENCMD of DEFINE command GENCMD of DRAIN command SYSCMD of FILEDEF command CMSREF restriction in job for CMS batch facility CMSUG of ORDER command GENCMD, **SYSCMD** of PURGE command GENCMD, SYSCMD of QUERY command GENCMD, SYSCMD of SPOOL command GENCMD of SPTAPE command SYSCMD of START command SYSCMD of TRANSFER command GENCMD, **SYSCMD** reading ADGCMS an entire file continuously GENCMD cards from your virtual card reader **CMSUG** CMS abend dump DIAG CMS files SPIREF CP abend dumps DIAG DOS files ADGCMS files SPIUG lines EXEC2 OS/MVS data sets ADGCMS plan SPIUG real card decks into your virtual machine **CMSUG** records sequentially ADRCMS restrictions OS/MVS data sets ADGCMS SAM files ADGCMS SAM files ADGCMS tapes ADGCMS the stack and console SPIREF VSAM tape files ADGCMS readshare password INTRO READY command CMSUG, GENCMD, RGOS described GENCMD operands vaddr **GENCMD** responses **GENCMD** 

SYSCMD

usage notes GENCMD

ready message APGDE, CMSLOT, PRIMER, TERMREF	resource
	managed by CP INTRO
controlling how it is displayed CMSUG	real console INTRO
not displayed after #CP function is used in CMS CMSUG	real storage INTRO
special format in exec CMSREF	sharing INTRO
•	restart button, simulating <b>GENCMD</b> real storage <b>RGOS</b>
ready status, removing a device from GENCMD	above 16 Mb RGOS
readying files for input or output  DMSOPEN CSL routine ADRCMS	above 16 Mb
FSOPEN macro ADRCMS	
read/write	managing ADMIN
access SECUR	preferred machine assist ADMIN allocation INTRO
with LINK command GENCMD	amount available, specifying RGOS
authority INTRO	changing its contents SYSCMD
displaying status of file modes CMSUG	CP usage, specifying RGOS
status of disks	definition ADMIN, SYSMSG
controlling CMSREF	displaying its contents SYSCMD
listing for disk assignments in CMS/DOS	examine with DIAGNOSE code X'04'
CMSREF	in attached processor environment
read, to virtual console, definition CMSUG	SFPROG
real	in multiprocessor environment SFPROG
address ADMIN, SYSMSG	examine with DIAGNOSE code X'04'
address, definition INST	SFPROG
channel program support SECUR, SFPROG	locking selected pages SYSCMD
device	management
connecting to virtual machine SYSCMD	See Diagnosis Reference
finding CP control block addresses	management, using greater-than-16 MB
SYSCMD	storage (extended storage)
removing from system SYSCMD	See Diagnosis Reference
simulation, VM SNA support SFPROG	mapping to virtual INTRO
stopping channel program SYSCMD	MVS V = R  guest  RGOS
I/O configuration file	MVS V = V guest RGOS
CLUSTER macro PLNGDE	printing contents SYSCMD
coding BSC lines PLNGDE	security INTRO
coding 3270s PLNGDE	SYSCOR macro RGOS
examples of VM/SP HPO system	Real Time Monitor Program, analyzing
PLNGDE	performance RGOS
function INST	real-time violation notification SECUR
loading sample file INST	realign data
preparing PLNGDE	example of XEDIT
RCHANNEL macro PLNGDE	sequence used to XEDIT
RCTLUNIT macro PLNGDE	REALTIMER directory option CONPAO
RDEVICE macro PLNGDE	defining in directory PLNGDE
RIOGEN macro PLNGDE	MVS virtual machine RGOS
sequence of macros PLNGDE	VSE virtual machine RGOS
tailoring INST	reason codes
TERMINAL macro PLNGDE	sever, Identify System Service (*IDENT)
I/O interrupts	CONGREF
See Diagnosis Reference	SFS SYSMSG
machine ADMIN, SYSMSG	reassembling existing programs CMSMIG
controlling SECUR	
definition INST	

reset button, simulating GENCMD

RECEIVE control GCSREF **IUCV** function **SFPROG** data CONGREF parameter list format SFPROG files PRIMER trace table entry format SFPROG in reader CMSLOT using SFPROG messages CMSLOT VMCF function SFPROG notes CMSLOT, PRIMER RECEIVE command APGDE service example of use INTRO PUT/COR procedure SERV to receive a reader file CMSLOT VMFREC EXEC SERV to rename a reader file CMSLOT signals from the signal system service to replace a reader file CMSLOT **SFPROG** receive exception log (\$VMFREC \$ERRLOG) the service request example SERV assembler SRPI REXX and EXEC 2 SRPI general description SERV message codes SERV RECFM attribute, example of use INTRO RECEIVE function of APPC/VM CONGREF **RECFM** option addressing for CONGREF of COPYFILE command CMSREF completion CONGREF of EXTRACT XEDIT condition codes CONGREF of FILEDEF command ADGCMS, from communication partner CONGREF APGDE, CMSREF mapped with APPC CONGREF of QUERY XEDIT overview CONGREF of SET XEDIT parameter list CONGREF of TRANSFER XEDIT program exceptions CONGREF recfm, variable return codes CONGREF described GENCMD, SYSCMD state changes CONGREF RECFM = operanduse in sample user program CONGREF FSCB macro ADRCMS receive history log (\$VMFREC \$HISTORY) FSOPEN macro ADRCMS example SERV FSREAD macro ADRCMS general description SERV FSWRITE macro ADRCMS RECEIVE parameter of SENDDATA reclaiming **CONGREF** files before purging GENCMD RECEIVE state (APPC) CONGREF spool files SYSCMD transmitted files GENCMD description SAACOM how a program enters it SAACOM RECNO = operand Receive (CMRCV) routine CONGREF FSCB macro ADRCMS call description SAACOM FSOPEN macro ADRCMS example flow using SAACOM FSREAD macro ADRCMS RECEIVE\_AND\_WAIT, APPC verb FSWRITE macro ADRCMS abend conditions CONGREF RECOMP option of FORMAT command mapped with APPC/VM CONGREF **CMSREF** parameters CONGREF reconfiguring virtual machine GENCMD reconnecting TERMREF state changes CONGREF receive type characteristic after disconnect XEDIT possible values SAACOM an XEDIT session XEDIT set SAACOM text terminal TERMREF receiving your terminal (using LOGON) a service reply TERMREF assembler SRPI

Refer to the foldout page at the back of this book for a chart of abbreviations and their corresponding manuals.

REXX and EXEC 2 SRPI

record format XEDITUG	APPC logical CMSMIG
defining XEDIT	data INTRO
DOS files ADGCMS	reading files ADGCMS
fixed, logical record length of XEDIT	sequencing ADGCMS
of CMS file	variable-length INTRO
changing CMSREF	RECOVER command CMSLOT, PRIMER
listing CMSREF	RECOVER subcommand of XEDIT command
of file, specifying CMSREF	APGDE, XEDIT, XEDITUG
program input and output files ADGCMS	example of <b>XEDITUG</b>
records that can be punched CMSREF	in typewriter mode XEDITUG
variable, logical record length of XEDIT	practice exercise using XEDITUG
record length XEDITUG	recovering
default used by CMS editor CMSREF	deleted lines CMSLOT, PRIMER, XEDIT
in typewriter mode XEDITUG	XEDITUG
modifying CMSREF	in typewriter mode <b>XEDITUG</b>
of CMS file CMSUG	spool files OPGDE, SYSCMD
changing CMSREF	recovery
listing CMSREF	features OPGDE
maximum lengths for PRINT command	from control minidisk verification errors
CMSREF	SFSAD
specifying with FILEDEF command	from system failures <b>OPGDE</b>
CMSREF	management
RECORD operand	in multiprocessor mode <b>OPGDE</b>
of SET command SYSCMD	support OPGDE
recording	-related procedures SFSAD
CP data, using DATA-type trap DIAG	recreating the problem <b>DIAG</b>
CP trace table entries DIAG	RECSER tag, product parameter file SERV
data in MONITOR file, DIAGNOSE	recursive calls
code X'DC' SFPROG	See CALL instruction
I/O activity <b>DIAG</b>	recursive editing XEDIT
I/O errors	recursive execution EXEC2
with CPEREP program OPGDE	redefining a character XEDITUG
messages in a file PRIMER	in typewriter mode XEDITUG
mode, setting	redisplay of input line for SNA terminals
device SYSCMD	SFPROG
error SYSCMD	redisplaying a subcommand XEDITUG
of authorizations SFSAD	using & XEDIT
virtual machine data in the CPTRAP file	using? XEDIT
DIAG	reducing
warnings in a file PRIMER	a window size to one line CMSREF
records	CP overhead for virtual machine I/O
See also accounting, records	ADMIN
See also tracing	paging activity ADMIN, RGOS
accounting SFPROG, SFSAD	purges when the virtual machine dispatches
comparison of types ADMIN	a new address space ADMIN
created by user ADMIN	SIO operations ADMIN
for AUTOLOG, LOGON, and LINK	the probability of data loss DIAG
journaling ADMIN	virtual machine SIOs ADMIN
format for dedicated devices and temporary	reenterable code usage ADMIN
disk space ADMIN	reenterable program save areas GCSREF
format for virtual machines ADMIN	

reentrant code	printing
generating using CMSSTOR OBTAIN	extended control GENCMD
ADRCMS	floating-point GENCMD
generating using FSCLOSE macro	general GENCMD
ADRCMS	reserved in CMS APGDE
generating using FSOPEN macro	return code APGDE
ADRCMS	usage, CP (control program) ADMIN
generating using FSPOINT macro	use of DIAG
ADRCMS	Vector Facility
generating using FSREAD macro	changing the contents of APGDE
ADRCMS	displaying APGDE
generating using FSWRITE macro	save areas ADMIN
ADRCMS	vector mask, displaying APGDE
generating using LINEDIT macro	vector status, displaying APGDE
ADRCMS	15
reexecuting a subcommand XEDITUG	return code 0 GCSREF
using REPEAT XEDIT	return code 12 GCSREF
using = XEDIT	return code 8 GCSREF
references, unresolved	registering private resources CONPAO
resolving with INCLUDE command	regression
CMSREF	prevent SERV
resolving with LOAD command CMSREF	REGS subcommand of IPCSSCAN
referring to a line XEDITUG	command
REFR option of LKED command APGDE,	description IPCSREF
CMSREF	example output IPCSREF
REFRESH command CMSLOT, CMSUG	format IPCSREF
REFRESH subcommand XEDIT	functional category IPCSREF
refreshing a FILELIST screen CMSLOT,	messages IPCSREF
PRIMER	responses IPCSREF
regcount	usage notes IPCSREF
of DISPLAY command GENCMD	REGS = operand
regcount, variable	AMODESW CALL ADRCMS
described GENCMD, SYSCMD	REG/PSW keyword of SYMPTOM
regenerating a file pool SFSAD	subcommand
REGEQU macro	IPCSREF
generating a list of EQU statements	reg, variable
ADRCMS	described GENCMD, SYSCMD
register	REG = operand
base GCSREF	AMODESW RETURN ADRCMS
control DIAG	REINIT statement in ISPF panels APGDE
convention DIAG	REIPL operand
definition DIAG	of SHUTDOWN command ADMIN,
floating-point <b>DIAG</b>	SYSCMD
general DIAG	REJECT
displaying	IUCV function SFPROG
extended control GENCMD	parameter list format SFPROG
floating-point GENCMD	trace table entry format SFPROG
general GENCMD	using SFPROG
linkage APGDE, GCSREF	VMCF function SFPROG
many in Guille	VIVICE EDUCATION DEL ROG

Refer to the foldout page at the back of this book for a chart of abbreviations and their corresponding manuals.

rejecting a connection CONGREF	remote
RELATED HELP CMSUG	backups SFSAD
described CMSREF	definition of SFSAD
obtaining using HELP command CMSREF	devices
obtaining using MOREHELP command CMSREF	VM under VM RGOS VSE RGOS
RELATED task menus XEDIT	LU block for AVS, displaying IPCSREF
relative column number, specifying column-target	partner SAACOM
as XEDIT	relational access support in SQL/DS
relative displacement, specifying target as	SECUR
XEDIT, XEDITUG	spooling, TAG command GENCMD
example of XEDITUG	spooling networks
RELEASE command APGDE, GCSREF	receiving files GENCMD
description GCSREF	transmitting files GENCMD
det operand GCSREF	system, DDP defined INTRO
updating master file directory CMSUG	terminal
used with OS/MVS disks ADGCMS	connecting GENCMD
release level conflicts with CPTRAP DIAG	terminals, using an editor CMSUG
releasing	transaction program connection
a logical operator SFPROG	See connections, outbound
LGLOPR action routine SFPROG	use
LGLOPR command SFPROG	start-up parameters related to SFSAD
dedicated devices GENCMD	topics related to SFSAD
disks GCSREF	users, enrolling SFSAD
file modes CMSUG	3270s, restrictions PLNGDE
free storage ADRCMS	REMOTE option
pages with DIAGNOSE code X'10'	of EXTRACT XEDIT
SFPROG	of QUERY XEDIT
read-only extensions CMSUG	of SET XEDIT
SFS lock ADRCMS	Remote Spooling Communications Subsystem
storage, CMSSTOR RELEASE ADRCMS	(RSCS)
temporary disks GENCMD	See RSCS (Remote Spooling
RELOAD command of SQL APGDE	Communications Subsystem)
relocatable	REMOTE start-up parameter SFSAD
libraries (VSE), displaying directories of	remotely attached terminal TERMREF
CMSREF	Remove List (SNA service)
modules ADGCMS, CMSMIG	contents SERV
link-editing in CMS/DOS CMSREF	definition SERV
files	example SERV
modules, link-editing in CMS/DOS	removing
ADGCMS	a file pool from a TSAF collection SFSAD
RELOCATE command CMSLOT, PRIMER	a virtual screen definition CMSREF
·	a window definition CMSREF
relocating	
a file or directory CMSLOT, CMSUG, PRIMER	closed spool files GENCMD dedicated devices GENCMD
a file or subdirectory to another directory  ADRCMS	EXECs and editor macros from storage CMSREF
relocation dictionary assembler CMSREF	fix-in-error (SNA service) SERV
remainder SPIUG	macros in virtual storage XEDIT
definition SPIREF	multiple PTFs (SNA service) SERV
description of SPIREF	plus signs and leading zeros EXEC2
operator SPIREF, SPIUG	prefix subcommands XEDIT
Remote Access Control Facility (RACF)	PTF SERV
See RACE(Remote Access Control Facility)	real devices SVSCMD

service levels SERV	REP option
single PTF (SNA service) SERV	of INCLUDE command CMSREF
spool files SYSCMD	of LOAD command CMSREF
user from a file pool SFSAD	of MACLIB command APGDE,
virtual devices from virtual machine	CMSREF
GENCMD	REP statement, patch update file SERV
RENAME command APGDE, CMSMIG,	repair facilities OPGDE
CMSLOT, PRIMER	REPEAT command INTRO
changing file mode numbers CMSUG	described SYSCMD
renaming CMS files CMSUG	operands
renaming files in another user's directory	HOLD SYSCMD
CMSUG	lprt SYSCMD
renaming	nnn SYSCMD
a directory CMSLOT, PRIMER	raddr SYSCMD
a file PRIMER	1 SYSCMD
in a directory CMSLOT	responses SYSCMD
in reader CMSLOT	summary OPGDE, SYSCMD
in your file space CMSLOT	syntax diagram, class D SYSCMD
CMS files CMSUG	REPEAT subcommand XEDIT
in another user's directory CMSUG	repeated substitution SPIUG
using aliases CMSUG	repeating
files or subdirectories ADRCMS	a string with COPIES SPIREF
RENT option	last command CMSLOT
of ASSEMBLE command CMSREF	last subcommand XEDIT
of LKED command APGDE, CMSREF	lines EXEC2
RENUM subcommand XEDIT	the display of a subcommand XEDITUG
renumber line numbers of VSBASIC or	the execution of a subcommand
FREEPORT files XEDIT	XEDITUG
reordering	XEDIT commands PRIMER
automatic, of SYSPAG areas ADMIN	repetitive loops SPIUG
batch jobs CMSUG	altering flow SPIREF
data with TRANSLATE function SPIREF	controlled repetitive loops SPIREF
spool files GENCMD	exiting SPIREF
the batch facility <b>OPGDE</b>	simple do group SPIREF
REORDER = parameter	simple repetitive loops SPIREF
of SYSPAG macro ADMIN	repetitive output <b>DIAG</b>
reorganizing file pool catalogs SFSAD	replace ADRCMS
REP control record, ZAP and ZAPTEXT	file in reader CMSLOT
service programs	line in a file CMSLOT
example SERV	option
format SERV	of COPYFILE command CMSREF
function SERV	of DISK command CMSREF
paramters SERV	of LOADLIB command CMSREF
special consideration during ZAP	of NOTE command CMSREF
processing SERV	REPLACE command CMSLOT
usage notes SERV	replace function
REP function (HNDIUCV macro)	See REP function (HNDIUCV macro)
parameter descriptions CONGREF	Replace loader control statement ADGCMS
return codes CONGREF	

Refer to the foldout page at the back of this book for a chart of abbreviations and their corresponding manuals.

REPLACE parameter	repository mes
DMSFILEC (SFS Filecopy) ADRCMS	message repository ADRCMS
DMSOPEN (SFS Open) ADRCMS	AVS CONPAO
product parameter file override area	TSAF CONPAO
SERV	using ADGCMS
REPLACE statement ADGCMS	REPRO access method services function
REPLACE subcommand of XEDIT command	ADGCMS
APGDE, XEDIT	Reqby Log (SNA service) SERV
example of XEDIT	definition SERV
in typewriter mode XEDITUG	example SERV
with DBCS strings XEDIT	types of entries SERV
replace system information	request block
callable services library ADGCMS	for accessing variables SPIREF
calling from REXX ADGCMS	REQUEST command CMSUG, GENCMD,
features of ADGCMS	TERMREF
replace (REP)	described GENCMD
image of statement in load map CMSREF	responses GENCMD
loader control statement CMSREF	usage notes GENCMD
replacing	request confirmation
a file PRIMER	See SENDCNF function of APPC/VM
a file pool minidisk SFSAD	request to send
a line in typewriter mode XEDITUG	See SENDREQ function of APPC/VM
a member of a MACLIB in OS/MVS	request-to-send interrupt CONGREF
ADGCMS	requester virtual machine CONGREF
a logical operator SFPROG	accessing communications directories
LGLOPR action routine SFPROG	CONPAO
LGLOPR command SFPROG	APPCPASS CONPAO
characters	CP directory entry
using COVERLAY XEDIT	explicit authorization to connect to resources
using CREPLACE XEDIT	CONPAO
current line XEDIT	
	specifying target system security information in CONPAO
data globally XEDITUG	
in typewriter mode XEDITUG	description of CONPAO
data selectively XEDITUG	password, specifying in CP directory CONPAO
in typewriter mode XEDITUG	preparing to connect to resources CONPAO
data using CHANGE XEDITUG	requester password, specifying in
in typewriter mode XEDITUG	communications directory CONPAO
data using COVERLAY XEDITUG	setting up CONPAO
data using CREPLACE XEDITUG	user ID, specifying in communications directory
system information ADRCMS	CONPAO
REPLY	user ID, specifying in CP directory CONPAO
IUCV function SFPROG	user program
parameter list format SFPROG	See user program
trace table entry format SFPROG	requesting
using SFPROG	confirmation CONGREF
VMCF function SFPROG	information GCSREF
REPLY command GCSREF	machine configuration SYSCMD
description GCSREF	paging information SYSCMD
replying to messages GCSREF	scheduling information SYSCMD
reporting	status information INTRO
errors SAACOM	system resource/gateway table information
problems INTRO, IPCSREF	SFPROG
repositioning	system status SYSCMD
data XEDITUG	
output SYSCMD	

Request_to_Send (CMRTS) routine CONGREF	reserved page frames
call description SAACOM	for multiple users SYSCMD
example flow using <b>SAACOM</b>	option OPGDE
REQUEST_TO_SEND, APPC verb	performance option ADMIN
abend conditions CONGREF	reserved page option, SET command INTRO
mapped with APPC/VM CONGREF	reserved words
parameters CONGREF	predefined functions EXEC2
state changes CONGREF	predefined variables EXEC2
REQUEST_TO_SEND_RECEIVED parameter	reserve/release CCWs
(APPC)	MVS virtual machine
of CONFIRM CONGREF	DASD sharing RGOS
of RECEIVE_AND_WAIT CONGREF	dedicated paths RGOS
of SEND_DATA CONGREF	hardware RGOS
of SEND_ERROR CONGREF	how it works RGOS
requirements	real <b>RGOS</b>
changing the directory PLNGDE	summary of support RGOS
for storage of directory group names ADMIN	virtual RGOS
rerunning commands PRIMER	VSE virtual machine
RES function (HNDIUCV macro)	dedicated path RGOS
parameter descriptions CONGREF	hardware RGOS
return codes CONGREF	how it works RGOS
reservation of keywords SPIREF	summary of support RGOS
reserve CCW, definition of	virtual RGOS
MVS guest RGOS	reserving a line XEDIT
VSE RGOS	RESET XEDITUG
RESERVE command SFPROG, SFSAD	option
as used during file pool regeneration	of INCLUDE command CMSREF
SFSAD	of LOAD command CMSREF
as used during minidisk replacement	reset button
SFSAD	simulating GENCMD
of SET command OPGDE, RGOS	RESET command CMSUG, GENCMD,
RESERVE operand	PRIMER, RGOS
of QUERY command SYSCMD	described GENCMD
of SET command ADMIN, SYSCMD	of DMS/CMS APGDE
reserved IBM class, described GENCMD,	operand
OPGDE,	vaddr <b>GENCMD</b>
SYSCMD	responses GENCMD
reserved line	usage notes GENCMD
displaying data on XEDIT	RESET key PRIMER, XEDITUG
displaying the number of XEDIT	to end insert mode XEDITUG
returning to the editor <b>XEDIT</b>	RESET operand of SYSTEM command
transferring the number of XEDIT	GENCMD
RESERVED option	RESET option of INCLUDE and LOAD
of EXTRACT XEDIT	commands APGDE
of QUERY XEDIT	RESET parameter list SRPI
of SET XEDIT	RESET state CONGREF, SAACOM
of TRANSFER XEDIT	RESET state (APPC) CONGREF
	RESET subcommand XEDIT

example of XEDIT

Refer to the foldout page at the back of this book for a chart of abbreviations and their corresponding manuals.

resetting	local CONGREF, CONPAU
column pointer CMSLOT	See also local, resource
OS environment CMSREF	accessability CMSMIG
preferred machine assist feature GENCMD	locally known LU name for CONPAO
the prefix area PRIMER	LU name qualifier for CONPAO
virtual machine GENCMD	management, real INTRO
VSAM environment CMSREF	manager CONPAO
write and read pointers ADRCMS	description of CONPAO
resid operand	program CONGREF
of NETWORK command SYSCMD	manager, server virtual machine
RESID parameter of CONNECT CONGREF	See also server, virtual machine
residency mode	environment for private CONPAO
definition of ADGCMS, CMSMIG	setting up CONPAO
setting ADGCMS, CMSMIG	name space CONPAO
valid combinations with addressing mode	preparing user programs to connect to
CMSMIG	CONPAO
when to specify ADGCMS	private CONGREF, CONPAO
resident pages dumped with stand-alone dump	See also private resource
program DIAG	accessability CMSMIG
resident nucleus, ending address SERV	name uniqueness CMSMIG
resid, variable	virtual machine environment CMSMIG
described GENCMD, SYSCMD	
RESOLVE function (CMSIUCV macro)	program (sample) CONGREF protection SECUR
· · · · · · · · · · · · · · · · · · ·	•
parameter descriptions CONGREF resource CONGREF	registration CONPAO resource in SNA network
accessibility CONPAO	overview of communications with
authorization to	CONPAO
connect to CONPAO	sample communications directory entry for
manage global/local CONPAO	CONPAO
manage private CONPAO	specifying locally known LU name
communications directory CONPAO	CONPAO
description CONGREF	revoking your own <b>CONGREF</b>
description of CONPAO	security access to CMSMIG
differences between types of CONPAO	server virtual machine
global CONGREF, CONPAO	See server, virtual machine
See also global resource	symbolic destination name for CONPAO
global, accessability CMSMIG	transaction program name CONPAO
ID CONPAO	transparent access to CMSMIG
See also transaction program name	types CONPAO
for resource in SNA network CONPAO	unique CONPAO
IUCV control statement CONPAO	virtual machines connecting to CONGREF
unique CONPAO	Resource Access Control Facility (RACF)
identification	See RACF (Resource Access Control
remote 3270 devices SYSCMD	Facility)
identifying	resource function type SYSCMD
in connection request CONPAO	resource ID
in global/local resource manager directory	description CONGREF
CONPAO	RESOURCE ID filed
in private resource server virtual machine	of CONNECT request (*IDENT)
directory CONPAO	CONGREF
multiple global/local resources CONPAO	resource ID operand
target of request CONPAO	of IUCV directory control statement
to collection CONPAO	PLNGDE
using symbolic destination name	resource operand of FDISPLAY subcommand
CONPAO	IPCSREF

RESOURCE parameter (APPC) for HOLD command SYSCMD of CONFIRM CONGREF for INDICATE command GENCMD of CONFIRMED CONGREF for INDICATE LOAD command of DEALLOCATE CONGREF **GENCMD** of RECEIVE\_AND\_WAIT CONGREF for INDICATE USER command of REQUEST TO SEND CONGREF **GENCMD** of SEND\_DATA CONGREF for LINK command GENCMD of SEND ERROR CONGREF for LOADVFCB command GENCMD RESOURCE (SQL table creation authority) for LOCATE command SYSCMD **APGDE** for LOCK command SYSCMD respecting case difference XEDIT for LOGOFF command GENCMD responding to prompting messages from for LOGON command **GENCMD** AMSERV in an EXEC ADGCMS for MEGNOH command SYSCMD RESPONSE class monitor records ADMIN for MESSAGE command GENCMD. **RESPONSE** operand **SYSCMD** of MONITOR command SYSCMD for MIGRATE command SYSCMD responses for MONITOR command SYSCMD for ACNT command SYSCMD for NETWORK command SYSCMD for ADSTOP command GENCMD for NOTREADY command GENCMD for ATTACH command SYSCMD for ORDER command GENCMD, for AUTOLOG command SYSCMD **SYSCMD** for BACKSPAC command SYSCMD for PER command GENCMD for BEGIN command GENCMD for PURGE command GENCMD, for CACHE command SYSCMD **SYSCMD** for CHANGE command GENCMD. for QUERY command GENCMD, SYSCMD **SYSCMD** for CLOSE command GENCMD for QUERY CPLANG command for COMMANDS command GENCMD **GENCMD** for COUPLE command GENCMD for QUERY CPUID command GENCMD for CP command GENCMD for QUERY FILES command GENCMD for CPTRAP command SYSCMD for QUERY LINKS command GENCMD for DCP command SYSCMD for QUERY LOGMSG command for DEFINE command GENCMD **GENCMD** for DEFINE commands SYSCMD for QUERY NAMES command GENCMD for DETACH command GENCMD. for QUERY PER command GENCMD **SYSCMD** for QUERY PFnn command GENCMD for DIAL command GENCMD for QUERY PROCESSR command for DISABLE command SYSCMD **GENCMD** for DISCONN command GENCMD for **QUERY READER** for DISPLAY command GENCMD PRINTER, and PUNCH command for DMCP command SYSCMD **GENCMD** for DRAIN command SYSCMD for QUERY SCREEN command GENCMD for DUMP command GENCMD for OUERY SECUSER command for ECHO command GENCMD **GENCMD** for ENABLE command SYSCMD for QUERY SET command GENCMD for EXTERNAL command GENCMD for QUERY SPMODE command for FLUSH command SYSCMD **GENCMD** for FORCE command SYSCMD for QUERY S370E command GENCMD for GIVE command SYSCMD for QUERY TERMINAL command for HALT command SYSCMD **GENCMD** 

Refer to the foldout page at the back of this book for a chart of abbreviations and their corresponding manuals.

for QUERY TIME command GENCMD	IPL command GENCMD
for QUERY USERID command GENCMD	mnotes SYSMSG
for QUERY USERS command GENCMD	monitor
for QUERY USERS userid command	to special tape conditions ADMIN
GENCMD	sequence indicator GENCMD
for QUERY VIRTUAL DASD command	to CP commands, types of GENCMD,
GENCMD	SYSCMD
for QUERY VIRTUAL GRAF command	unnumbered SYSMSG
GENCMD	vs. system messages GENCMD, SYSCMD
for QUERY VIRTUAL LINES command	responsibilities
GENCMD	for spooling operator <b>OPGDE</b>
for QUERY VIRTUAL STORAGE	of user for CMS/DOS ADGCMS
command GENCMD	restart
for QUERY VIRTUAL TAPES command	button, simulating GENCMD
GENCMD	facilities OPGDE
for QUERY VIRTUAL UR command	in attached processor operations OPGDE
GENCMD	in multiprocessor operations OPGDE
for QUERY VIRTUAL vaddr command	recovery ADGCMS, SFSAD
GENCMD	restart indicator file
for QUERY VIRTUAL vaddr-vaddr	corrective service SERV
command GENCMD	general description SERV
for QUERY VMSAVE GENCMD	PUT service SERV
for QUERY (ALL) command GENCMD	RESTART key RGOS
for READY command GENCMD	RESTART operand
for REPEAT command SYSCMD	of SYSTEM command GENCMD
for REQUEST command GENCMD	restarting
for RESET command GENCMD	batch jobs CMSUG
for REWIND command GENCMD	output SYSCMD
for SAVESYS command SYSCMD	
for SCREEN command GENCMD	spooling device SYSCMD
for SEND command GENCMD	the batch facility <b>OPGDE</b> virtual machine <b>GENCMD</b>
for SET command GENCMD for SHUTDOWN command SYSCMD	RESTORE function control statement
	of DDR (DASD DUMP/Restore) ADMIN SFPROG
for SLEEP command GENCMD	
for SMSG command GENCMD	RESTORE ddname SFSAD
for SPACE command SYSCMD	RESTORE start-up parameter SFSAD
for SPOOL command GENCMD	instructions for using SFSAD
for SPTAPE command SYSCMD	RESTORE subcommand XEDIT, XEDITUG
for START command SYSCMD	RESTORE WINDOW command CMSUG
for STCP command SYSCMD	restoring
for STORE command GENCMD	editing variables XEDITUG
for SYSTEM command GENCMD	lost data SFSAD
for TAG command GENCMD	start-up parameters related to SFSAD
for TERMINAL command GENCMD	second-level VM RGOS
for TRACE command GENCMD	starter system INST
for TRANSFER command GENCMD,	the screen
SYSCMD	after LEFT XEDIT
for UNLOCK command SYSCMD	after RIGHT XEDIT
for VARY command SYSCMD	variables SPIREF, XEDIT
for VMDUMP command GENCMD	restricted passwords SECUR
for WARNING command SYSCMD	auto-deactivation ADMIN
for #CP command GENCMD	restricting
from CMS commands CMSUG	command use SFPROG
from VM/SP CMSUG	user access SFSAD

I/O restriction of CP commands SECUR graphics data stream PLNGDE of DIAGNOSE codes SECUR I/O device drops ready status PLNGDE pages for I/O PLNGDE restrictions **BDAM ADGCMS** locked pages OPGDE channel MSS (mass storage system) model dependent functions PLNGDE Central Service Application Program programs PLNGDE virtual and real channels PLNGDE common inventory and journal PLNGDE channel-to-channel adapters PLNGDE compatibility of MSC/DMKRIO/IOGEN **CMS PLNGDE** BC mode PLNGDE prohibited use PLNGDE CMS simulation of OS PLNGDE unique volume number PLNGDE CMS/DOS PLNGDE volume serial PLNGDE displaying time PLNGDE 3330V PLNGDE interfaces PLNGDE maximum length of results SPIREF OS and DOS PLNGDE minidisk OS data sets PLNGDE cylinder 0 PLNGDE programs under CMS/DOS PLNGDE DASD channel program PLNGDE DASD I/O real search ID PLNGDE spooling **PLNGDE** data buffer area PLNGDE system logical units PLNGDE VSAM and ISAM Interface Program data buffer area for FB-512 PLNGDE **PLNGDE** Device Support Facility PLNGDE CMS/DOS ADGCMS Diagnostic Read/Write Home Address **PLNGDE** commands OPTIONS COPYFILE PLNGDE end-of-cylinder condition PLNGDE conmode 3270 PLNGDE FBA and CE area PLNGDE conmode 3270 and MVS PLNGDE FBA diagnostic commands PLNGDE count-key-data devices ADMIN, SFPROG multitrack search PLNGDE CP command for problem determination OS/VS and 3375/3380 **PLNGDE RGOS** preferred machine assist PLNGDE ddnames in OS VSAM programs ADGCMS seek PLNGDE DDR SFPROG miscellaneous DSF for full-volume minidisk RGOS directory control statements PLNGDE dynamically modified channel program logical device support PLNGDE non-display read up PLNGDE **PLNGDE** embedded blanks in numbers SPIREF small CP option PLNGDE Extended Storage Support PLNGDE MONITOR ENABLE command SYSCMD FB-512 DASD ADMIN number of virtual devices PLNGDE FBA DASD SFPROG on commands used in CMS batch facility first character of variable name SPIREF **CMSUG** for CMS users using VSE/SP 2.1 and later preferred machine assist PLNGDE, RGOS **RGOS** MVS guest RGOS for using DDR ADMIN, SFPROG processor model dependent functions for 3215 terminal console **PLNGDE** CANCEL key OPGDE imposed by the VM/Pass-Through Facility

Refer to the foldout page at the back of this book for a chart of abbreviations and their corresponding manuals.

in programming SPIREF

processors	tape mode setting PLNGDE
application programs and 2K keys	V = R <b>PLNGDE</b>
PLNGDE	1050/152 Model 2 Data Communication
channel error recovery PLNGDE	System PLNGDE
machine layout area PLNGDE	1052 console PLNGDE
processor identification PLNGDE	3066 <b>PLNGDE</b>
simulation of processor models PLNGDE	3081 <b>PLNGDE</b>
VMSAVE/SAVESYS and 2K/4K keys	VM/370 hardware assist <b>OPGDE</b>
PLNGDE	3480 devices for MVS guest RGOS
158 PLNGDE	8809 tape device PLNGDE
2K and 4K keys PLNGDE	Restructured Extended Executor (REXX)
program, storage above 16Mb ADMIN	language APGDE, CMSLOT,
reading	INTRO, PRIMER
OS/MVS data sets ADGCMS	compound symbols APGDE
SAM files ADGCMS	FILEDEF commands in APGDE
remote 3270's PLNGDE	functions APGDE
SEREP program PLNGDE	interpreter structure SPIREF
service record file PLNGDE	MACLIBs in APGDE
shadow table for V=R guest RGOS	prototyping algorithms with APGDE
shadow tables for MVS V=V guest RGOS	subroutines APGDE
	substitution rules APGDE
single processor mode RGOS	
storage subsystems PLNGDE	TXTLIBs in APGDE RESULT
timing dependencies	
devices that expect interruptions within a	reserved symbol SPIUG
fixed time PLNGDE	set by RETURN instruction SPIREF
PCI PLNGDE	special variable SPIREF
telecommunication access methods	results, length of SPIREF
PLNGDE	RESULTS control statement for FILEPOOL
virtual block multiplexer channel PLNGDE	FORMAT AUDIT SFSAD
using	RESULTS OF AUTHORITY CHECK field
DOS macro libraries in CMS/DOS	in FILEPOOL FORMAT AUDIT output
ADGCMS	SFSAD
minidisks with VSAM data sets ADGCMS	resume
OS/MVS programs in CMS/DOS	after an attention interruption CMSUG
ADGCMS	execution <b>DIAG</b>
virtual device PLNGDE	function
virtual machine guests PLNGDE	See RES function (HNDIUCV macro)
virtual machines	IUCV function SFPROG
control units PLNGDE	parameter list format SFPROG
DIAGNOSE PLNGDE	trace table entry format SFPROG
DUMMY feature PLNGDE	using SFPROG
integrated emulators PLNGDE	program execution
IPL command PLNGDE	after regaining control following a
IPL NOCLEAR PLNGDE	disconnect CMSUG
I/O errors PLNGDE	terminal displays CMSUG
MVS subsystems and applications	VMCF function SFPROG
programs PLNGDE	resuming
PCI fetch PLNGDE	execution GENCMD
pseudo-timer PLNGDE	full-screen CMS PRIMER
Read/Write Direct PLNGDE	use of virtual machine after disconnecting
saved segments PLNGDE	GENCMD
SET CLOCK PLNGDE	virtual machine execution GENCMD
size PLNGDE	RETINFO = operand
spooling PLNGDE	TEOVEXIT macro ADRCMS
-Lange - milden	

retrieve	X'D0' SFPROG
a group name with DIAGNOSE code	X'D4' SFPROG
X'A0' SFPROG	X'EC' SFPROG
buffer (RTDVBFR) CONGREF	X'0C' SFPROG
function PRIMER	X'00' SFPROG
next REXX Variable ADRCMS	X'08' SFPROG
special REXX values ADRCMS	X'10' SFPROG
value of a REXX variable ADRCMS	X'18' SFPROG
RETRIEVE BUFFER function of IUCV	X'28' SFPROG
SFPROG	X'64' SFPROG
trace table entry format SFPROG	X'68' SFPROG
using SFPROG	X'7C' SFPROG
RETRIEVE function for display terminals	X'74' SFPROG
CMSUG	X'78' SFPROG
retrieve IPL statement information, DIAGNOSE	X'8C' SFPROG
code X'B0' SFPROG	X'80' SFPROG
retrieving	X'84' SFPROG
argument strings with ARG SPIREF	X'94' SFPROG
commands PRIMER	X'98', subcode X'0000' SFPROG
deleted lines XEDIT	X'98', subcode X'0004' SFPROG
lines	X'98', subcode X'0008' SFPROG
saved by PUT XEDIT	field in CPRB on server exit SRPI
saved by PUTD XEDIT	FINDSYS function SFPROG
previously entered data CMSUG	for FILESERV commands SFSAD
RETRY operand	from access method services ADGCMS,
of SET command SYSCMD	CMSREF
RETURN CMS subset command to leave subset	from CMS DDR Command SYSMSG
CMSUG	
	from CMS EXEC interpreter CMSREF
return codes APGDE, DIAG, EXEC2, SAACOM,	from CP DIRECT Command SYSMSG
SYSMSG	from CSL SFSAD
ACCEPT (CMSIUCV) function CONGREF	from CSL (Callable Services Library)
ACCEPT (IUCV) function CONGREF	SYSMSG
ADDRQRY function SFPROG	from DMSJNE SFSAD
APPC CONGREF	from DMS2AB SFSAD
as set by host commands SPIREF	from EXEC 2 interpreter CMSREF
CLR (clear) function CONGREF	from IPCS SYSMSG
CMS and CP SPIUG	from MAKEBUF command effect on
CMS in exec procedure CMSREF	&ERROR statement CMSREF
CMSIUCV SFPROG	from System Product Interpreter CMSREF
CONNECT (APPCVM) function	from the CMS Extract/Replace Facility
CONGREF	SYSMSG
CONNECT (CMSIUCV) function	HLD (hold) function CONGREF
CONGREF	HLD (hold) function CONGREF
CONNECT (IUCV) function CONGREF	HNDIUCV SFPROG
DASD Block I/O System Service SFPROG	IBM ECF SRPI
DCLBFR function CONGREF	in CMS ready message CMSUG
DIAGNOSE code	in PLIST SRPI
X'BC' SFPROG	in REXX variable RC SRPI
X'CC' SFPROG	in server request-handling sequence SRPI
X'C8' SFPROG	

Refer to the foldout page at the back of this book for a chart of abbreviations and their corresponding manuals.

in service reply (user defined) <b>SRPI</b>	RETURN macro GCSREF
in variable RC or &RC SRPI	description GCSREF
IUCV	rc parameter GCSREF
ACCEPT SFPROG	reg parameter GCSREF
CONNECT SFPROG	t parameter GCSREF
DECLARE BUFFER SFPROG	RETURN operand
DESCRIBE SFPROG	of GIVE command SYSCMD
PURGE SFPROG	RETURN parameter for CONNECT
QUIESCE SFPROG	(APPCVM) function CONGREF
RECEIVE SFPROG	return string, setting on exit SPIREF
REJECT SFPROG	return to CMS from CP APGDE
REPLY SFPROG	returning
RESUME SFPROG	control from REXX program SPIREF
SEND SFPROG	from a function or routine SPIUG
SET CONTROL MASK SFPROG	from CMS subset mode XEDIT
SET MASK SFPROG	from CP XEDIT
SEVER SFPROG	return code characteristic
TEST COMPLETION SFPROG	definitions of values SAACOM
LOADSYS function SFPROG	possible values SAACOM
on return from SENDREQ SRPI	RETURN_CODE parameter (APPC)
placement ADRCMS	of CONFIRM CONGREF
PURGESYS function SFPROG	of DEALLOCATE CONGREF
read, write, multi password prompt	of RECEIVE_AND_WAIT_CONGREF
SFPROG	of SEND_DATA CONGREF
RECEIVE function CONGREF	of SEND_ERROR CONGREF
REP (replace) function CONGREF	return_control characteristic
RES (resume) function CONGREF	possible values SAACOM
RESOLVE (CMSIUCV) function	set SAACOM
CONGREF	REUS option of LKED command APGDE,
REXX SPIUG	CMSREF
SENDCNF function CONGREF	REUSE subcommand of IPCSSCAN
SENDCNFD function CONGREF	command
SENDDATA function CONGREF	description IPCSREF
SENDERR function CONGREF	example output IPCSREF
SENDREQ function CONGREF	format IPCSREF
SET function CONGREF	functional category IPCSREF
setting by server in CPRB field SRPI	messages IPCSREF
setting on exit SPIREF	responses IPCSREF
SEVER (APPCVM) function CONGREF	usage notes IPCSREF
SEVER (CMSIUCV) function CONGREF	REUSEAD IPCSREF
SEVER (IUCV) function CONGREF	REVERSE function SPIREF
Signal System Service SFPROG	reverse locate PRIMER
SRPI variable RTNC on return from	reverse tab key PRIMER
SENDREQ SRPI	reviewing messages and warnings PRIMER
TESTCMPL function CONGREF	review, definition INTRO
VMCF SFPROG	REVOKE ADMIN operator command
return codes and reason codes	instructions for using SFSAD
reason codes common to SFS program	reference information for SFSAD
functions ADRCMS	REVOKE AUTHORITY command
relating to SFS program functions	CMSLOT, PRIMER
ADRCMS	REVOKE operand
RETURN command APGDE	of IUCV directory control statement
return DASD start of LOGREC area	PLNGDE
SFPROG	revoked alias SFSAD
RETURN instruction SPIREF, SPIUG	definition of CMSREF

revoking	substitution rules APGDE
a global resource or gateway SFPROG	TXTLIBs in APGDE
access privileges ADRCMS	interpreter structure SPIREF
gateway collection identification CONPAO	RGTLEFT subcommand XEDIT
global resource CONPAO	rid, variable
groups that can revoke CONGREF	described GENCMD, SYSCMD
local resource CONPAO	RIGHT command of DMS/CMS APGDE
your own resources CONGREF	RIGHT function SPIREF
revoking authority CMSLOT, CMSUG,	right shift XEDIT
PRIMER	RIGHT subcommand XEDIT, XEDITUG
REWIND command APGDE, CMSUG,	example of <b>XEDIT</b>
GENCMD	right-justified EXEC2
described GENCMD	ring of files XEDIT, XEDITUG
operands	editing XEDITUG
vaddr GENCMD	illustration of <b>XEDITUG</b>
responses GENCMD	RING option
usage notes GENCMD	of EXTRACT XEDIT
REWIND operand	of QUERY XEDIT
of SPTAPE command SYSCMD	RIOBLOK subcommand of IPCSSCAN
rewinding a real tape GENCMD	command
REWRITE operand	description IPCSREF
of DEFNUC macro PLNGDE	example output IPCSREF
REXX (Restructured Extended Executor)	format IPCSREF
language APGDE, INTRO,	functional category IPCSREF
PRIMER, SPIREF	messages IPCSREF
compound symbols APGDE	operand IPCSREF
file used as XEDIT macro XEDITUG	responses IPCSREF
FILEDEF commands in APGDE	usage notes IPCSREF
functions APGDE	RIOGEN macro
interface to APPC/VM CMSMIG	example PLNGDE
interfacing routines	format <b>PLNGDE</b>
DMSCCE (Calling a REXX EXEC)	operands
ADRCMS	ALTCONS PLNGDE
DMSCDR (Drop a REXX Variable)	CONS PLNGDE
ADRCMS	SRF <b>PLNGDE</b>
DMSCGR (Get a REXX Variable)	risk
ADRCMS	accepting the SECUR
DMSCGS (Get Special REXX Values)	analysis, performing SECUR
ADRCMS	RL command
DMSCGX (Get the Next REXX Variable)	See RDRLIST command
ADRCMS	RLD option of ASSEMBLE command
DMSCSR (Set a REXX Variable)	CMSREF
ADRCMS	RLDSAVE option
language CONGREF	of INCLUDE command CMSREF
MACLIBs in APGDE	of LOAD command CMSREF
prototyping algorithms with APGDE subroutines APGDE	RLSE output field of STAT command IPCSREF
	RLU operand of GDISPLAY subcommand IPCSREF

Refer to the foldout page at the back of this book for a chart of abbreviations and their corresponding manuals.

RMODE	CMSPTR (Set_Prepare_to_Receive_Type)
See residency mode	CONGREF
RMODE pseudo-op ADGCMS, CMSMIG	CMSRC (Set_Return_Control) CONGREF
RMSIZE parameter	CMSRT (Set_Receive_Type) CONGREF
of SYSCOR macro ADMIN, RGOS	CMSSL (Set_Sync_Level) CONGREF
RO code, exception log messages SERV	CMSST (Set_Send_Type) CONGREF
ROLLBACK WORK command APGDE	CMSTPN (Set TP Name) CONGREF
ROLLBACK WORK command of SQL	CMTRTS (Test Request to Send Received)
APGDE	CONGREF
rolling back changes to one or more files	CPI Communications CMSMIG
ADRCMS	DMSCLBLK (SFS Close Blocks) SFSAD
SFS file changes ADGCMS	DMSCLCAT (SFS Close Catalog) SFSAD
rounding	DMSCPYBF (SFS Copy Buffer) SFSAD
definition SPIREF	DMSDEUSR (SFS Delete User) SFSAD
numbers SPIUG	DMSDISFS (SFS Disable File Space) SFSAD
using a character string as a number	DMSDISSG (SFS Disable Storage Group)
SPIREF	SFSAD
ROUTE command CMSUG	DMSENAFS (SFS Enable File Space) SFSAI
operands	DMSENASG (SFS Enable Storage Group)
ROUTE statement SFPROG	SFSAD
See also programmable operator facility	DMSENUSR (SFS Enroll User) SFSAD
routines	DMSOPBLK (SFS Open Blocks) SFSAD
See also functions	DMSOPCAT (SFS Open Catalog) SFSAD
	· • • • • • • • • • • • • • • • • • • •
See also subroutines	DMSQLIM (SFS Query Limits) SFSAD
access verification ADMIN	DMSQLIMD (SFS Query Limits—Deblocker)
action SFPROG	SFSAD
CMACCP (Accept) CONGREF	DMSRDBLK (SFS Read Blocks) SFSAD
CMALLC (Allocate) CONGREF	DMSRDCAT (SFS Read Catalog) SFSAD
CMCFM (Confirm) CONGREF	DMSRELBK (SFS Release Blocks) SFSAD
CMCFMD (Confirmed) CONGREF	DMSWRACC (SFS Write Accounting Record
CMDEAL (Deallocate) CONGREF	SFSAD
CMECT (Extract_Conversation_Type)	DMSWRBLK (SFS Write Blocks) SFSAD
CONGREF	DMSWRCAT (SFS Write Catalog) SFSAD
CMEMN (Extract_Mode_Name) CONGREF	XCECSU
CMEPLN (Extract_Partner_LU_Name)	(Extract_Conversation_Security_User_ID)
CONGREF	CONGREF
CMESL (Extract_Sync_Level) CONGREF	XCIDRM (Identify_Resource_Manager)
CMFLUS (Flush) CONGREF	CONGREF
CMINIT (Initialize_Conversation)	XCSCSP
CONGREF	(Set_Conversation_Security_Password)
CMPTR (Prepare_to_Receive) CONGREF	CONGREF
CMRCV (Receive) CONGREF	XCSCST (Set_Conversation_Security_Type)
CMRTS (Request_to_Send) CONGREF	CONGREF
CMSCT (Set_Conversation_Type)	XCSCSU
CONGREF	(Set_Conversation_Security_User_ID)
CMSDT (Set_Deallocate_Type) CONGREF	CONGREF
CMSED (Set_Error_Direction) CONGREF	XCSCUI (Set_Client_Security_User_ID)
CMSEND (Send) CONGREF	CONGREF
CMSERR (Send_Error) CONGREF	XCTRRM (Terminate_Resource_Manager)
CMSF (Set_Fill) CONGREF	CONGREF
CMSLD (Set_Log_Data) CONGREF	XCWOE (Wait_on_Event) CONGREF
CMSMN (Set_Mode_Name) CONGREF	routine, variable
CMSPLN (Set_Partner_LU_Name)	described GENCMD, SYSCMD
CONGREF	

routing CONPAO dynamic configuration CONPAO failure CONPAO selection CONPAO routing operand of FDISPLAY subcommand **IPCSREF** routing table (RTABLE) SFPROG See also programmable operator facility for programmable operator INTRO RPIUCMS MODULE SFSAD RPL macro (VSAM) GCSREF acb parameter GCSREF area parameter GCSREF arealen parameter GCSREF arg parameter GCSREF description GCSREF ecb parameter GCSREF keylen parameter GCSREF nxtrpl parameter GCSREF opted parameter GCSREF reclen parameter GCSREF RPWLIST DATA file INST, PLNGDE RQ code, exception log messages SERV rr, variable described GENCMD, SYSCMD **RSCS** (Remote Spooling Communications Subsystem) TERMREF definition ADMIN, SYSMSG publications TERMREF spooling to remote locations OPGDE wait state codes SYSMSG networking INTRO, TERMREF directory options SECUR dump INTRO HELP file IPCSREF programmable operator facility relationship **SFPROG** security in SECUR virtual machine RGOS Wait State Codes SYSMSG RSCSIPCS MAP IPCSREF RSCSNET IPCSREF RSCSNET Load Map IPCSREF RSCSNET MAP IPCSREF RSCSV2 dump option of IPCSPRT command **IPCSREF** 

RSERV command description of ADGCMS examples ADGCMS RSRTOPSW (restart old PSW) DIAG RSSIZE parameter of SYSCOR macro ADMIN, RGOS rstor, variable described GENCMD, SYSCMD RT (Resume Type) Immediate command **CMSUG** SET CMSTYPE RT command SPIUG RTABLE (routing table) SFPROG See also programmable operator facility for programmable operator INTRO RTARGET option of ALL XEDIT RTNDROP command CMSMIG RTNLOAD command CMSMIG, CONGREF RTNMAP command CMSMIG RTNSTATE command CMSMIG RTRVBFR function of IUCV CONGREF communication partner, effect on CONGREF completion CONGREF condition codes CONGREF parameter list CONGREF program exceptions CONGREF state changes CONGREF rules for entering subcommands XEDIT of authorization, GCS dumping facilities DIAG RUN command APGDE, INTRO run list definition ADMIN, SYSMSG finding place on SYSCMD RUN operand of PER Command GENCMD of SET command GENCMD of SPTAPE command SYSCMD of TRACE command GENCMD **RUN** subcommand of TESTCOB command APGDE of TESTFORT command APGDE run user requests monitored in CP internal trace table **SYSCMD** 

RSCSV2 Load Map IPCSREF

run-away write SFSAD

Refer to the foldout page at the back of this book for a chart of abbreviations and their corresponding manuals.

## running

**AVS CONPAO** a compiler PRIMER a program CMSLOT, PRIMER an EXEC PRIMER commands again PRIMER DDR stand-alone ADMIN DDR under CMS ADMIN multiple VSE virtual machines RGOS off the end of a program SPIREF programs under CMS INTRO task **DIAG** the programmable operator from NCCF or NetView SFPROG

TSAF CONPAO VM under VM RGOS with active microcode assist DIAG RUNNING status on display screen APGDE, **CMSUG** RUNSERVE EXEC INST RUNTSAF command (TSAF) CONPAO RUNUSER (current user) DIAG RX prefix on external routines SPIREF RXSYSFN description SPIREF R/O operand of ATTACH command SYSCMD of GIVE command SYSCMD

control statements (IUCV) for

to access resources CONPAO to use gateways CONPAO S prefix macro XEDIT directory S prefix subcommand of XEDIT command for 3350 PLNGDE **APGDE** for 3375 PLNGDE SAA (Systems Application Architecture) for 3380 PLNGDE CMSMIG, CONPAO, INTRO for 3380-E4 PLNGDE interface definition table SAACOM **DMKRIO** overview SAACOM for 3350 PLNGDE product relationship SAACOM for 3375 PLNGDE related publications SAACOM for 3380 PLNGDE supported environments SAACOM **DMKSNT** SAC component of file pool server SFSAD for 3350 PLNGDE SACBs DIAG for 3375 PLNGDE major SACBs DIAG for 3380 PLNGDE minor SACBs DIAG EXEC 2 files EXEC2 scanning major SACBs DIAG EXECs SFSAD scanning minor SACBs DIAG explicitly authorized scanning SACBs DIAG gateways CONPAO SAD frames (system activity display) frames TSAF collection CONPAO **OPGDE** files SFSAD SAD MACRO DIAG copying SFSAD SADGEN ASSEMBLE file DIAG loading INST SADGEN TEXT file DIAG printing INST SADUMP EXEC DIAG tailoring INST example DIAG inbound connection to SADUMP operand global resource CONPAO of SPTAPE command SYSCMD private resource CONPAO SAM (sequential access method) links in a collection CONPAO declarative macros ADGCMS, ADRCMS outbound connection CONPAO I/O macros ADGCMS, ADRCMS PROFILE GCS CONPAO reading ADGCMS resource program CONGREF support using CMSBAM INST SCOMDIR NAMES file entries CONPAO SAME option of INCLUDE command STATALL LOCAL file IPCSREF **CMSREF** terminal sessions same system, communications within for DOS programmers ADGCMS **CONGREF** for OS programmers ADGCMS SAMGEN EXEC INST, INTRO using access method services ADGCMS sample TSAF console log CONPAO See also examples TSAF virtual machine directory CONPAO AGWPROF GCS CONPAO UCOMDIR NAMES file entries CONPAO APPCPASS directory statement CONPAO user program CONGREF APPL definition statement CONPAO CONNECT function CONGREF AVS virtual machine directory CONPAO RECEIVE function CONGREF CMS IUCV program SFPROG SENDDATA function CONGREF communications directory file entries SEVER function CONGREF CONPAO VBUILD statement CONPAO \$SERVER\$ NAMES file entries CONPAO

Refer to the foldout page at the back of this book for a chart of abbreviations and their corresponding manuals.

SAMPLE operand	determining location ADMIN
of MONITOR command SYSCMD	determining where to save ADMIN
SASSIST OFF operand	DIAGNOSE code interface ADMIN
of SET command ADMIN	displaying information about ADGCMS
SASSIST ON operand	finding ADMIN, SFPROG
of SET command ADMIN	for national languages SFPROG
SASSIST operand	installing INST, PLNGDE
of QUERY command SYSCMD	SNTMAP EXEC PLNGDE
of SET command OPGDE, SYSCMD	loading ADMIN, SFPROG
save area convention	loading and saving ADMIN, INST
BALRSAVE DIAG	managing ADMIN, ADRCMS
DUMPSAVE DIAG	planning considerations ADGCMS
FREESAVE DIAG	purging ADMIN, SFPROG
FREEWORK DIAG	sharing ADRCMS
LOCKSAV DIAG	types INST
LOKSAVE DIAG	using from your virtual machine ADGCMS
MFASAVE DIAG	saved systems
SAVEAREA DIAG	defining PLNGDE
SIGSAVE DIAG	definition ADMIN, PLNGDE, SYSMSG
SVCREGS DIAG	installing PLNGDE
SWTHSAVE DIAG	SNTMAP EXEC PLNGDE
save areas GCSREF	loading GENCMD
HSVCSAVE ADRCMS	managing ADMIN
nonreenterable program GCSREF	naming PLNGDE
reenterable program GCSREF	saved virtual storage OPGDE
- <del>-</del>	SAVENCP command
register, Vector Facility ADMIN	
Vector Facility ADMIN	for 37XX control program ADMIN SAVENCP MODULE INST
save automatically CMSLOT	
SAVE command APGDE, CMSLOT,	SAVEONLY option of ACCESS command
PRIMER	CMSREF
in BASIC PRIMER	SAVERETN DIAG
SAVE macro GCSREF	SAVESEG command
description GCSREF	creating a saved segment ADGCMS,
id name parameter GCSREF	CMSMIG
reg parameter GCSREF	SAVESEGID start-up parameter SFSAD
t parameter GCSREF	usage recommendations for VMSYS and
SAVE subcommand	VMSYSU SFSAD
of PER command GENCMD	SAVESEQ operand
subcommands	of NAMESYS macro PLNGDE
APPEND GENCMD	SAVESEQ priority value ADMIN
traceset GENCMD	SAVESYS command PLNGDE
of XEDIT command APGDE, XEDIT	described SYSCMD
changing file identifier CMSUG	operand
example of use INTRO	systemname SYSCMD
writing a CMS file CMSUG	responses SYSCMD
SAVEAREA DIAG	summary OPGDE, SYSCMD
saved segment ADGCMS, CMSMIG,	syntax diagram, class E SYSCMD
CMSUG	usage notes SYSCMD
CMSFILES SFSAD	SAVESYS operand
considerations SRPI	of DEFNUC macro PLNGDE
creating saved segments ADGCMS,	save, automatic XEDITUG
CMSMIG	in typewriter mode XEDITUG
defining PLNGDE	SAVE = operand
definition ADMIN, INST, SYSMSG	AMODESW SET ADRCMS
design considerations ADGCMS	

saving	SCAN macro CMSMIG
a BASIC program PRIMER	BUFFER = operand ADRCMS
a file	building parameter lists ADRCMS
using AUTOSAVE CMSLOT	ERROR = operand ADRCMS
using FILE XEDIT	mapping the SCBLOCK ADRCMS
using SAVE CMSLOT, XEDIT	setting up parameter lists ADGCMS
using SET AUTOSAVE XEDIT	TEXT = operand ADRCMS
a list of files <b>PRIMER</b>	TRANS = operand ADRCMS
a 3800 named system with DIAGNOSE	SCAN raddr operand
code X'74' SFPROG	of SPTAPE command SYSCMD
CMS named system INST	scanning a file XEDIT
CP message repository, DIAGNOSE	SCB operand of GDISPLAY subcommand
code X'CC' SFPROG	IPCSREF
editing variables <b>XEDITUG</b>	SCBLOK (swap control block)
files CMSUG	· ·
	created by SUBCOM ADRCMS
GCS named system INST	definition ADMIN, SYSMSG
HELP segment INST	mapping ADRCMS
history information ADGCMS	obtaining the anchor for nucleus
messages in a file PRIMER	extensions ADRCMS
national language files	scenarios
for CP and CMS SFPROG	for connections CONGREF
for GCS SFPROG	of GCS in VM/SP GCSREF
spool files ADMIN	SCF (service control file), SNA service
storage space SYSCMD	definition SERV
the 370X control program SFPROG	example SERV
variables XEDIT	keyword values SERV
virtual machine data <b>GENCMD</b>	SCHANGE macro XEDIT
warnings in a file <b>PRIMER</b>	assigned to a PF key XEDIT
SAY (REXX instruction) CMSLOT, PRIMER,	used with AUTOSAVE ON XEDIT
SPIREF, SPIUG	SCHEDEX macro GCSREF
scale PRIMER	description GCSREF
changing location or display XEDITUG	exit parameter GCSREF
defining display features <b>XEDITUG</b>	id parameter GCSREF
displaying	uword parameter GCSREF
using SCALE (prefix subcommand)	SCHEDULE class monitor records ADMI
XEDIT	SCHEDULE operand
using SET SCALE XEDIT	of MONITOR command SYSCMD
when defining mask XEDIT	scheduler
example of <b>XEDITUG</b>	control block for AVS, displaying
illustration of XEDIT	IPCSREF
location on screen XEDITUG	design changes
removing from screen XEDIT	VMMAP support ADMIN
SCALE option	VM/PPF support ADMIN
of EXTRACT XEDIT	VM/RTM support ADMIN
of QUERY XEDIT	differences, monitor considerations
of SET XEDIT	because of ADMIN
of TRANSFER XEDIT	entry, monitored in CP internal trace
SCALE prefix subcommand XEDIT	table SYSCMD
-	scheduling information
	requesting SYSCMD

Refer to the foldout page at the back of this book for a chart of abbreviations and their corresponding manuals.

scientific notation SPIREF	in XEDIT input mode PRIMER
SCIF (Single Console Image Facility) SFPROG	of RDRLIST PRIMER
controlling multiple virtual machines	of the CMS window PRIMER
SFPROG	management TERMREF
recommendations for SFSAD	keys APGDE
using SFPROG	VM SNA support SFPROG
SCOMDIR communications directory CONPAO	operation simulation XEDIT
SCOPE option	reserving a line on XEDIT
of EXTRACT XEDIT	scrolling
of QUERY XEDIT	backward XEDIT
of SET XEDIT	forward XEDIT
SCPINFO command SFPROG	
	size, defining XEDITUG
SCPLVL (keyword definition) IPCSREF	virtual XEDIT
screen	VM status notices
changes stacked by READ XEDIT	CP READ CMSUG
copying the image to a CMS file CMSREF	HOLDING CMSUG
display TERMREF	MORE CMSUG
updating XEDIT	NOT ACCEPTED CMSUG
divided into multiple logical screens <b>XEDIT</b>	RUNNING CMSUG
DMS/CMS INTRO	VM READ CMSUG
example of 3270 screen display CMSUG	SCREEN command CMSUG, GENCMD
full-screen status notices	described GENCMD
enter a command or press a PA or PF key	operands
CMSUG	ALL GENCMD
enter your response in vscreen vname	area GENCMD
CMSUG	CPOut GENCMD
executing a command CMSUG	extcolor GENCMD
scroll forward for more information in	exthilight GENCMD
vscreen vname CMSUG	INArea GENCMD
images	INRedisp GENCMD
horizontal APGDE	OUTarea GENCMD
vertical APGDE	STAtarea GENCMD
copying to a CMS file CMSREF	VMout GENCMD
in DMS/CMS	responses GENCMD
completion options APGDE	usage notes GENCMD
data field APGDE	SCREEN directory control statement
design grid APGDE field characteristics of APGDE	example PLNGDE
	operands PLNGDE
field definition APGDE	ALL PLNGDE
panel name APGDE	area PLNGDE
panel size APGDE	color PLNGDE
selector field APGDE	hilight PLNGDE
text field APGDE	SCREEN operand
in XEDIT, splitting PRIMER	of EXTRACT XEDIT
I/O	of QUERY GENCMD, XEDIT
See full screen, I/O	of SET XEDIT
layout XEDITUG	of TRANSFER XEDIT
changing XEDITUG	SCREEN subcommand of XEDIT command
in FILELIST PRIMER	APGDE
in input mode XEDIT	SCREEN/NOSCREEN option of DETAIL
in NAMES PRIMER	HELP CMSUG
in NOTES PRIMER	SCRIPT CMSLOT, PRIMER
in power typing mode XEDIT	file type usage in CMS CMSUG
in YEDIT edit mode PDIMED	files CMSUC

SCRIPT command CMSLOT, INTRO, PRIMER control word INTRO execution restrictions in CMS/DOS **ADGCMS** options CONTINUE CMSLOT, PRIMER DSMPROF3 CMSLOT PRINT CMSLOT, PRIMER PROFILE CMSLOT, PRIMER SPELLCHK CMSLOT, PRIMER script &2 ... EXEC2 arguments EXEC2 embedded blanks EXEC2 &ARGS EXEC2 &READ ARGS EXEC2 SCRIPT/VS CMSLOT, PRIMER SCRIPT/VS (DCF) INTRO SCRNSAVE operand of TERMINAL command GENCMD SCROLAD IPCSREF SCROLL command CMSUG scroll forward for more information (status notice) PRIMER scroll interface, IPCSSCAN IPCSREF scroll location information PRIMER SCROLL operand of TERMINAL command GENCMD of TRACE subcommand IPCSREF SCROLL subcommand of IPCSSCAN command description IPCSREF example outputs IPCSREF format IPCSREF functional category IPCSREF messages IPCSREF operand IPCSREF responses IPCSREF usage notes IPCSREF SCROLLEN IPCSREF scrolling APGDE a window CMSREF, PRIMER backward XEDIT forward XEDIT forward and backward using border commands CMSUG horizontal APGDE

right and left using border commands **CMSUG** the screen using BACKWARD XEDITUG using FORWARD XEDITUG using PF keys XEDITUG through a file using XEDIT PRIMER scrollu operand of TRACE subcommand **IPCSREF** SCROLUAD IPCSREF SD option of DSERV command CMSREF SDATE command CMSLOT SDATE synonym to sort FILELIST CMSUG SDB format IPCSREF SDIR synonym to sort FILELIST CMSUG SDUMP command DIAG SDUMP macro GCSREF description GCSREF execute format GCSREF hdr parameter GCSREF hdrad parameter GCSREF list format GCSREF list parameter GCSREF mf parameter GCSREF storage parameter GCSREF search direction, specifying XEDITUG for column-target XEDIT for target XEDIT search order abend exit routines ADGCMS for CMS commands ADGCMS, CMSREF displaying CMSUG summary CMSUG for CMS loader CMSREF for commands SPIREF for executable phases in CMS/DOS ADGCMS, CMSREF for file mode extensions CMSUG for file modes CMSUG for functions SPIREF for relocatable modules in CMS/DOS **CMSREF** for server name SRPI for subcommands and macros, controlling **XEDIT** for subroutines SPIREF for subroutines and functions SPIUG for TEXT files and TXTLIB members

Refer to the foldout page at the back of this book for a chart of abbreviations and their corresponding manuals.

in FILELIST PRIMER

**ADGCMS** 

of macros and subcommands specified <b>XEDITUG</b>	seconds calculated from midnight SPIREF security ADMIN, SFSAD
used by ASSEMBLE command ADGCMS	access
SEARCHALL parameter	control groups PLNGDE
DMSOPDIR (SFS Open Directory)	information CONPAO
ADRCMS	verification routines ADMIN
	audit output file SFSAD
SEARCHAUTH parameter	
DMSOPDIR (SFS Open Directory) ADRCMS	auditing SECUR, SFSAD  AUDIT operator command SFSAD
searching	brief overview of SFSAD
a file XEDIT	changing output file for SFSAD
a string for a phrase SPIREF	defining output file for SFSAD
backward CMSLOT	FILEPOOL FORMAT AUDIT
file modes for CMS files	command SFSAD
See file mode determination	
	formatted output SFSAD
for a word in a string or words EXEC2 for a word in another word EXEC2	formatting the output of SFSAD
	start-up parameters related to SFSAD
for data	starting and stopping SFSAD
using a target XEDITUG	in SQL/DS SECUR
using CLOCATE XEDITUG	auto-deactivation of restricted passwords
using CLOCATE in typewriter mode	ADMIN
XEDITUG	category checking, RACF SECUR
libraries ADGCMS	considerations
read-only extensions CMSUG	for preparing directory PLNGDE
SEC operand	IUCV SFPROG
of LABELDEF command CMSREF	data INTRO
of MONITOR command SYSCMD	definition of SECUR
second level installation, definition INST	implementation team SECUR
second level virtual machine issues SVC 76	increasing system ADMIN
SFPROG	keylock TERMREF
second level VM system	level entry in communications directory
building nucleus RGOS	CONPAO
DASD/Dump Restore RGOS	levels of conversations
defining RGOS	See conversation, security levels
directory RGOS	level checking, RACF SECUR
nucleus RGOS	log SECUR
operating procedures RGOS	maintenance TERMREF
performance considerations RGOS	management's basic responsibility SECUR
preparing system RGOS	measures ADMIN
problem determination RGOS	monitoring system access ADMIN
restoring RGOS	password deactivation PLNGDE
spooling RGOS	planning for, in general SECUR
updating	plan, steps in
DMKBOX RGOS	analyzing risk SECUR
DMKRIO RGOS	controlling access SECUR
DMKSNT RGOS	cryptography SECUR
DMKSYS RGOS	maintaining physical security SECUR
second-level storage	maintaining system integrity SECUR
definition ADMIN	security in products related to VM/SP
dumping of SFPROG	SECUR
secondary user INTRO, SFPROG, SFSAD	summarized SECUR
changing the setting of, for VMSYS and	verification of adequacy SECUR
VMSYSU SFSAD	real storage INTRO
list of current GENCMD	

specifying SFSAD

remote use considerations for SFSAD ERROR = operand ADRCMS FIND option ADRCMS risk, analyzing SECUR general formats CMSMIG token, access CONPAO unauthorized access to system resources LOAD option ADRCMS loading a saved segment ADGCMS **ADMIN** when changing command access ADMIN managing saved segments ADRCMS violations name parameter GCSREF detection mechanisms for SECUR NAME = operand ADRCMS patterns of SECUR PURGE option ADRCMS security tag in communications directory SHARE = operand ADRCMS **CONGREF** start parameter GCSREF SECURITY tag setting for file pools SFSAD SYSTEM = operand ADRCMS SECURITY types CMSMIG segname, variable SECURITY(NONE), description of CONPAO described GENCMD, SYSCMD SECURITY(PGM), description of CONPAO SEL operand SECURITY(SAME), description of CONPAO of DEFINE command GENCMD SECUSER operand SELECT command of SQL APGDE of QUERY command GENCMD SELECT function of SPOOL system seek time, minimizing SFSAD service SFPROG SEEKS class monitor records ADMIN SELECT instruction SPIREF SEEKS operand description of SPIUG of MONITOR command SYSCMD END keyword SPIUG SEGGEN EXEC INTRO, SFPROG example of SPIUG segment INTRO OTHERWISE keyword SPIUG definition ADMIN, INST, SYSMSG THEN keyword SPIUG protect ADMIN, SYSMSG WHEN keyword SPIUG ADSTOP command ADMIN SELECT operand at system initialization ADMIN of EXTRACT XEDIT bit CPSEGPRT in PSA ADMIN of GLOBALV command CMSREF protection exception ADMIN of LOCATE subcommand IPCSREF STORE command ADMIN of QUERY XEDIT of TERMINAL macro PLNGDE TRACE command ADMIN space CMSMIG select privilege in SQL/DS SECUR saved CMSMIG SELECT service of ISPF APGDE See also saved segments SELECT subcommand of IPCSPRT command managing ADRCMS description IPCSREF sharing ADRCMS example output IPCSREF table ADMIN, SYSMSG format IPCSREF definition ADMIN functional category IPCSREF **SEGMENT** command messages IPCSREF comparison to DIAGNOSE X'64' operands IPCSREF **CMSMIG** response IPCSREF usage notes IPCSREF general formats CMSMIG managing saved segments ADGCMS SELECT subcommand of IPCSSCAN SEGMENT macro GCSREF command comparison to DIAGNOSE X'64' description IPCSREF **CMSMIG** example output IPCSREF deleting a saved segment ADGCMS format IPCSREF description GCSREF functional category IPCSREF end parameter GCSREF

Refer to the foldout page at the back of this book for a chart of abbreviations and their corresponding manuals.

messages IPCSREF	text GENCMD
operands IPCSREF	userid GENCMD
responses IPCSREF	responses GENCMD
usage notes IPCSREF	usage notes GENCMD
SELECT SYSIN control statement CMSREF	command with single console image facility
select-items in DMS/CMS APGDE	SFPROG
selecting	send confirmation
an alternate console OPGDE	See SENDCNF function of APPC/VM
attached processor or multiprocessor affinity	send confirmation response
ADMIN	See SENDCNFD function of APPC/VM
the next virtual machine to migrate	send data
ADMIN	See SENDDATA function of APPC/VM
selective	send error notice
change XEDIT, XEDITUG	See SENDERR function of APPC/VM
example of <b>XEDITUG</b>	send request
in typewriter mode XEDITUG	See SENDREQ function of APPC/VM
invalidation as a function of shadow	Send state CONGREF, SAACOM
table maintenance RGOS	SEND state (APPC) CONGREF
line editing XEDIT	Send (CMSEND) routine CONGREF
See also ALL macro	Send-Pending state
example of <b>XEDIT</b>	and error_direction characteristic
subcommands XEDIT	SAACOM
preventive service SERV	description SAACOM
selectivity <b>DIAG</b>	SENDCNF function of APPC/VM
operands, TYPENUM IPCSREF	CONGREF
specifying	completion CONGREF
for type GT traces DIAG	condition codes CONGREF
using CPTRAP INFILE operand DIAG	mapped with APPC CONGREF
with CPTRAP DIAG	overview CONGREF
using PER DIAG	parameter descriptions CONGREF
selectmask in DMS/CMS APGDE	parameter list CONGREF
selector field screens (ISPF) APGDE	program exceptions CONGREF
semicolons	return codes CONGREF
implied SPIREF	state changes CONGREF
omission of SPIREF	to communication partner CONGREF
within a clause SPIREF	SENDCNFD function of APPC/VM
SEND	CONGREF
IUCV function SFPROG	completion CONGREF
parameter list format SFPROG	condition codes CONGREF
to the DASD block I/O system service	mapped with APPC CONGREF
SFPROG	overview CONGREF
to the signal system service SFPROG	parameter descriptions CONGREF
to the SPOOL system service SFPROG	parameter list CONGREF
trace table entry format SFPROG	program exceptions CONGREF
using SFPROG	return codes CONGREF
SPOOL system service function SFPROG	state changes CONGREF
VMCF function SFPROG	to communication partner CONGREF
VMCF protocol SFPROG	SENDDATA function of APPC/VM
SEND command CMSUG, CMSLOT,	CONGREF
GENCMD, RGOS, SFSAD	addressing for CONGREF
described GENCMD	completion CONGREF
operands	condition codes CONGREF
CP GENCMD	mapped with APPC CONGREF
lprt GENCMD	message pending interrupt CONGREF multiple CONGREF

overview CONGREF service request parameter descriptions CONGREF assembler SRPI parameter list CONGREF REXX and EXEC 2 SRPI program exceptions CONGREF signals to the signal system service return codes CONGREF **SFPROG** scenario CONGREF special messages GENCMD state changes CONGREF spool files SYSCMD SENDREQ function of APPC/VM to communication partner CONGREF use in sample user program CONGREF CONGREF SENDERR function of APPC/VM completion CONGREF **CONGREF** condition codes CONGREF completion CONGREF mapped with APPC CONGREF condition codes CONGREF overview CONGREF mapped with APPC CONGREF parameter descriptions CONGREF overview CONGREF parameter list CONGREF parameter descriptions CONGREF program exceptions CONGREF parameter list CONGREF return codes CONGREF program exceptions CONGREF state changes CONGREF return codes CONGREF to communication partner CONGREF state changes CONGREF SENDREQ interrupt CONGREF to communication partner CONGREF format CONGREF SENDFILE command APGDE, CMSLOT, SENDREQ macro ADGCMS, ADRCMS, APGDE, CMSMIG, SRPI **PRIMER** example of use INTRO assembly messages (MNOTEs) ADRCMS sending CPRBREG operand ADRCMS making service requests ADRCMS and receiving documents INTRO SENDREQ subcommand SRPI APPC data CONGREF **SENDX** overview CONGREF VMCF function SFPROG error information CONGREF VMCF protocol SFPROG SEND/RECV file(s) PRIMER by selection from FILELIST CMSLOT VMCF function SFPROG from SENDFILE menu CMSUG VMCF protocol SFPROG using DISK DUMP command CMSUG Send Data (CMSEND) using SENDFILE command CMSLOT, call description SAACOM **CMSUG** example flow using SAACOM SEND DATA, APPC verb messages PRIMER to other users GENCMD, SYSCMD abend conditions CONGREF to system operator GENCMD, INTRO, mapped with APPC/VM CONGREF **SYSCMD** parameters CONGREF using CP MESSAGE command CMSUG state changes CONGREF using TELL command CMSUG Send\_Error (CMSERR) routine CONGREF without special headers to users SYSCMD call description SAACOM more than one file PRIMER example flow using SAACOM SEND ERROR, APPC verb notes CMSLOT, CMSREF abend conditions CONGREF using SENDFILE command CMSUG service reply mapped with APPC/VM CONGREF assembler SRPI parameters CONGREF CPRB SRPI state changes CONGREF

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**REXX and EXEC 2 SRPI** 

send_type characteristic	termination
possible values SAACOM	abnormal (CMS abend) SRPI
set SAACOM	and explicit unload (NUCXDROP) SRP
sense [data], variable	virtual machine CONGREF
described GENCMD, SYSCMD	See also resource manager
SENTRIES command APGDE	description of CONPAO
separating clauses SPIUG	directory option CONPAO
separator	examples of CONPAO
spool printer OPGDE	setting up CONPAO
spool punch output OPGDE	virtual machine, CP directory entry
used in CHANGE CMSLOT	for global/local resources CONPAO
used in CLOCATE CMSLOT	for private resources CONPAO
used in LOCATE CMSLOT	identifying multiple global/local resources
seqno, variable	CONPAO
described GENCMD, SYSCMD	IUCV ALLOW CONPAO
sequence	IUCV *IDENT CONPAO
numbers	OPTION MAXCONN CONPAO
assigned to VSAM extents CMSREF	SERVER DMSPARMS file SFSAD
assigned (CMS/DOS) to VSAM extents	Server-Requester Programming Interface for
CMSREF	VM/SP ADGCMS, ADRCMS,
of APPC/VM functions CONGREF	APGDE, CMSMIG
of commands assigned to a PF key XEDIT	service
of functions in CMS IUCV SFPROG	aids
of functions in IUCV SFPROG	brief overview of SFSAD
SEQUENCE statement ADGCMS	ETRACE operator command SFSAD
sequencing	external tracing SFSAD
output records ADGCMS	FILESERV LIST command SFSAD
using XEDIT SERIAL subcommand	for MVS guest RGOS
ADGCMS	internal tracing SFSAD
sequential reads ADGCMS	
SEQ8 option	ITRACE operator command SFSAD mini-dumps SFSAD
of EXTRACT XEDIT	definition SERV
of QUERY XEDIT	
of TRANSFER XEDIT	function type SYSCMD machine security
	· · · · · · · · · · · · · · · · · · ·
SEREP program restrictions PLNGDE	IUCV SECUR
serial identification	PROFS SECUR TSAF SECUR
removing XEDIT	programs
specifying XEDIT	DDR (DASD Dump Restore) ADMIN
SERIAL option	directory program PLNGDE
of EXTRACT XEDIT	VM/370 Format/Allocate ADMIN
of QUERY XEDIT	queries CONPAO
of SET XEDIT	record file
of TRANSFER XEDIT	restrictions PLNGDE
serialization of file, controlling XEDIT	specifying RIOGEN macro PLNGDE
server SFSAD	representative, described GENCMD,
See also file pool, server machine	OPGDE, SYSCMD
communications	request tokenized PLIST SRPI
considerations for CONGREF	requests, making ADRCMS
examples of CONGREF	support GIM
description INTRO	transaction programs SAACOM
loader SRPI macro SRPI	TSAF
machines SFSAD	See also problem diagnosis
See also file pool, server machine	preparing to CONPAO
	types SERV

service control file (SCF), SNA service definition SERV example SERV keyword values SERV Service Log (SNA service) SERV contents SERV definition SERV SERVICE operand of FDISPLAY subcommand IPCSREF of NUCXLOAD command CMSREF service programs ASMGEND EXEC SERV **CMSGEND EXEC SERV** DMKLD00E LOADER SERV GENSERVE EXEC SERV GENTSAF EXEC SERV PRELOAD MODULE SERV UTILITY EXEC SERV VMFAPPLY EXEC SERV VMFASM EXEC SERV VMFBLD EXEC SERV VMFHASM EXEC SERV VMFLKED EXEC SERV VMFLOAD MODULE SERV VMFMAC EXEC SERV VMFMERGE EXEC SERV VMFNLS EXEC SERV VMFOVER EXEC SERV VMFPLC2 MODULE SERV VMFREC EXEC SERV VMFREMOV EXEC SERV VMFSETUP EXEC SERV VMFTXT EXEC SERV VMFZAP EXEC SERV VRSIZE MODULE SERV ZAP MODULE SERV ZAPTEXT EXEC SERV SERVICE = operand NUCEXT SET ADRCMS servicing VM/SP corrective fixes INTRO local service INTRO program update tapes (PUT) INTRO types of services INTRO session CONGREF, SAACOM characteristics CONPAO complex TERMREF defining maximum number for gateway **CONPAO** 

description of CONPAO duration SFSAD ending a TERMREF limit CONPAO limit, changing CONPAO locks ADGCMS, CMSMIG manager, APL2 INTRO nested TERMREF record CONPAO starting a TERMREF SESSION file of GLOBALV command **CMSREF** SESSION lock CMSLOT, CMSUG, PRIMER SESSION parameter DMSCRLOC (SFS Create Lock) ADRCMS **SET** action routine SFPROG command, programmable operator SFPROG Set a REXX Variable (DMSCSR) general format ADRCMS passing values to an application program required specification of qualifiers ADRCMS SET ABBREV command CMSUG SET ALT XEDIT SET APL XEDIT SET ARBCHAR XEDIT, XEDITUG use in CHANGE XEDIT used with COUNT XEDIT SET ASSIST command OPGDE usage with hardware assist OPGDE use with virtual machine assist OPGDE SET AUTODUMP command DIAG format **DIAG** SET AUTOREAD command CONPAO, **CONGREF, TERMREF** SET AUTOSAVE command PRIMER, XEDIT, **XEDITUG** in typewriter mode XEDITUG practice exercise using XEDITUG SET BLIP command CMSMIG SET BORDER command CMSUG set breakpoint DIAG SET BRKKEY XEDIT changing the CP setting XEDIT default setting XEDIT

Refer to the foldout page at the back of this book for a chart of abbreviations and their corresponding manuals. SET CACHE command ADMIN

set calls	operands
conversation_type SAACOM	ACNT GENCMD
deallocate_type SAACOM	AFFINITY ADMIN, GENCMD,
error_direction SAACOM	OPGDE, SYSCMD
fill SAACOM	ALL SYSCMD
log_data SAACOM	AND SYSCMD
mode_name SAACOM	ASSIST ADMIN, GENCMD
partner_LU_name SAACOM	AUTO SYSCMD
prepare_to_receive_type SAACOM	AUTOPOLL GENCMD
product implementation table SAACOM	BIT SYSCMD
receive_type SAACOM	BUFTIME SYSCMD
return_control SAACOM	BYTE SYSCMD
send_type SAACOM	class SYSCMD
sync_level SAACOM	CONCEAL GENCMD
TP_name SAACOM	CP SYSCMD
SET CASE command PRIMER, XEDIT,	CPASSIST OPGDE, SYSCMD
XEDITUG	CPASSIST OFF ADMIN
with DBCS strings XEDIT	CPCONIO GENCMD
SET CMDLINE XEDIT, XEDITUG	CPUID GENCMD, SYSCMD
example of XEDITUG	DISK SYSCMD
SET CMSPF command PRIMER	DRUM SYSCMD
SET COLOR XEDIT, XEDITUG	DSPSLICE SYSCMD
SET COLPTR XEDIT	DUMP OPGDE, SYSCMD
SET COMDIR command (CMS) CONPAO	ECMODE GENCMD, RGOS
SET COMDIR ON command (CMS) CONPAO	EMSG GENCMD
SET command APGDE, CMSUG, DIAG,	FAVOR RGOS
GCSREF,	FAVORED ADMIN, OPGDE, SYSCMD
RGOS	IB SYSCMD
AUTOSAVE option CMSLOT	IBUFF SYSCMD
CASE option CMSLOT	IMSG GENCMD
CONCEAL option CMSUG	invalid in job for CMS batch facility
controlling ready message display CMSUG	CMSUG
controlling whether you receive messages	ISAM GENCMD
CMSUG	JOURNAL SYSCMD
description ADGCMS, GCSREF, GENCMD,	LIMIT SYSCMD
SYSCMD	LINEDIT GENCMD
determining current values GENCMD	LINK SYSCMD
DOSPART operand ADGCMS	LOGMSG SYSCMD
ESCAPE option CMSLOT	LOGON SYSCMD
example of use INTRO	MAIN SYSCMD
extended control-program support option:	MAXPP SYSCMD
VM/370 INTRO	MAXSIZE SYSCMD
favored execution option INTRO	MAXWSS SYSCMD
gcsbam operand GCSREF	MIH ADMIN
gcsvsam operand GCSREF	MINNUMSS SYSCMD
INPUT option CMSLOT	MINWS ADMIN, SYSCMD
invalid forms in job for CMS batch facility	MITIME ADMIN, SYSCMD
CMSUG	MODE SYSCMD
MSG option CMSLOT	MSG GENCMD
multiple shadow table option INTRO	
of DMS/CMS APGDE	NOQ2 SYSCMD NOQ3 SYSCMD
OI DIVID/CIVID AI GDE	
	NOTRANS ADMIN, GENCMD NULL SYSCMD
	OFF SYSCMD

OR SYSCMD PAGEX GENCMD PAGING ADMIN, SYSCMD PB SYSCMD PCI SYSCMD PFnn GENCMD PGFULL SYSCMD **PGMSTAT SYSCMD** PGMTLIM SYSCMD PREPAGE SYSCMD PRIORITY ADMIN, OPGDE, RGOS, **SYSCMD** PROC SYSCMD QDROP ADMIN, OPGDE, SYSCMD QUEUE DROP RGOS QUIET SYSCMD Q1 SYSCMD Q2 SYSCMD raddr SYSCMD RECORD SYSCMD RESERVE ADMIN, OPGDE, RGOS, SYSCMD RETRY SYSCMD RUN GENCMD, RGOS SASSIST OPGDE, SYSCMD SASSIST OFF ADMIN SASSIST ON ADMIN SMSG GENCMD SRM ADMIN, SYSCMD SRM IBUFF ADMIN SRM MHFULL ADMIN SRM PGFULL ADMIN SRM PGMTLIM ADMIN STBYPASS ADMIN, GENCMD STBYPASS VR RGOS STMULTI ADMIN, GENCMD, RGOS SYSTEM SYSCMD S370E SYSCMD S370E ON RGOS text SYSCMD TIMER GENCMD, RGOS userid SYSCMD USERS SYSCMD VMCONIO GENCMD VMSAVE ADMIN, GENCMD V = R SYSCMD WNG GENCMD XMEM GENCMD, SYSCMD 370E GENCMD

parameters SRM PGFULL ADMIN SRM PGMTLIM ADMIN queue drop elimination option INTRO reserved page option INTRO responses GENCMD, SYSCMD setting tracing on or off for System Product Interpreter EXECs CMSUG full-screen CMS CMSUG implied CP function CMSUG implied EXEC function CMSUG program function keys CMSUG the reserved line in full-screen CMS **CMSUG** window borders in full-screen CMS **CMSUG** summary OPGDE, SYSCMD syntax diagram class A SYSCMD class B SYSCMD class E SYSCMD class F SYSCMD sysname operand GCSREF TABS option CMSLOT usage notes **GENCMD** user priority option INTRO virtual machine assist option INTRO with Vector Facility program GENCMD SET commands used in PROFILE XEDIT **CMSLOT** SET CONTROL MASK function of IUCV **SFPROG** parameter list format SFPROG trace table entry format SFPROG using SFPROG SET CPASSIST use with ECPS OPGDE SET CTLCHAR XEDIT, XEDITUG SET CURLINE XEDIT, XEDITUG example of XEDITUG used to change size of input zone XEDIT SET DISPLAY XEDIT SET DOS command used to enter or exit DOS environment ADGCMS

SET DUMP command OPGDE

use in input mode XEDIT

SET ENTER XEDIT

SET ESCAPE XEDIT

Refer to the foldout page at the back of this book for a chart of abbreviations and their corresponding manuals.

SET MASK XEDIT SET ETARBCH XEDIT with DBCS strings XEDIT example of XEDIT SET ETMODE XEDIT SET MINWS command RGOS **SET ETRACE** command SET MODE MAIN invalid for 3031, 3032, 3033, 3090 AVS DIAG TSAF CONPAO, DIAG processors OPGDE **SET EXECTRAC command** invalid for 308x **OPGDE** external control of tracing SPIREF SET MSG command PRIMER SET FAVORED command RGOS SET MSGLINE XEDIT, XEDITUG usage with favored execution OPGDE example of XEDITUG SET FILEPOOL command CMSUG, SFSAD with FULLSCREEN OFF XEDIT SET FILEWAIT command CMSUG with FULLSCREEN ON XEDIT SET FILLER XEDIT SET MSGMODE XEDIT, XEDITUG SET FMODE XEDIT SET NONDISP XEDIT SET FNAME XEDIT SET NOTRANS ON command OPGDE SET FTYPE XEDIT SET NULLS XEDIT, XEDITUG SET FULLread XEDIT SET NUMBER XEDIT, XEDITUG SET NUMBER ON command PRIMER SET FULLSCREEN command CONGREF, CONPAO SET operand SET FULLSCREEN ON command ABNEXIT macro ADRCMS **PRIMER** HNDEXT macro ADRCMS SET function (HNDIUCV macro) HNDINT macro ADRCMS parameter descriptions CONGREF HNDIO macro ADRCMS HNDSVC macro ADRCMS return codes CONGREF SET HEX XEDIT, XEDITUG IMMCMD macro ADRCMS of DEFAULTS command CMSREF SET IMAGE XEDIT in typewriter mode XEDITUG of IMMCMD command CMSREF list of subcommands affected by **XEDIT** of QUERY command GENCMD SET IMPCMSCP XEDIT **SET** options **SET INSTSEG** combining XEDITUG description CMSUG displaying current values of use of CMSUG using QUERY XEDIT SET ITRACE command using STATUS XEDIT AVS DIAG modifying XEDIT SET LANGUAGE command CMSUG querying **XEDIT** set language, DIAGNOSE code X'C8' transferring XEDIT **SFPROG** SET OUTPUT, issuing while in XEDIT SET LASTLORC XEDIT XEDIT SET PACK XEDIT SET LDRTBLS command CMSMIG SET LINEND XEDIT set page boundary (SPB) card ADMIN, SET LOADAREA command description of CMSMIG set page boundary (SPB) loader control determining where files get loaded statement CMSREF **ADGCMS** SET PAn XEDIT SET PENDING XEDIT determining where programs are loaded **CMSMIG** example of **XEDIT** set location counter (SLC) loader control SET PF command PRIMER statement ADGCMS, CMSREF SET PFn XEDIT, XEDITUG SET LOGFILE command CMSUG, SET PFnn command APGDE **PRIMER** SET POINT XEDIT, XEDITUG SET LRECL XEDIT SET PREFIX XEDIT, XEDITUG with DBCS strings XEDIT example of XEDITUG SET MACRO XEDIT, XEDITUG SET PRIORITY command RGOS SET QDROP command CONPAO as used for server machines SFSAD

SET RANGE XEDIT SET RECFM XEDIT SET REMOTE XEDIT SET RESERVE command RGOS SET RESERVED command CMSUG, **XEDIT, XEDITUG** SET RUNMODE command of ISQL APGDE SET SASSIST use with ECPS OPGDE SET SCALE XEDIT, XEDITUG example of XEDITUG SET SCOPE XEDIT SET SCREEN subcommand of XEDIT command APGDE, PRIMER, **XEDIT, XEDITUG** example of XEDITUG with FULLSCREEN OFF XEDIT with FULLSCREEN ON XEDIT SET SELECT XEDIT SET SERIAL XEDIT with DBCS strings XEDIT SET SERVER command CONGREF SET SERVER ON command (CMS) **CONPAO** SET SHADOW XEDIT SET SIDCODE XEDIT with DBCS strings XEDIT SET SMSG command INTRO SET SPAN XEDIT, XEDITUG with DBCS strings XEDIT SET SPILL XEDIT example of **XEDIT** with DBCS strings XEDIT SET SRM IBUFF command RGOS SET SRM PGFULL command ADMIN, **PLNGDE** SET SRM PGMTLIM command ADMIN SET SRM PREPAGE command RGOS SET STAY XEDIT use in CHANGE XEDIT SET STBYPASS command RGOS SET STMULTI command RGOS SET STORECLR command ADGCMS, **CMSMIG** conversion considerations CMSMIG SET STREAM XEDIT effect in CDELETE XEDIT

of TESTCOB command APGDE of TESTFORT command APGDE of XEDIT, definition INTRO SET SYNONYM XEDIT, XEDITUG example of XEDIT with DBCS strings XEDIT SET TABLINE XEDIT, XEDITUG SET TABS command PRIMER, XEDIT, **XEDITUG** example of XEDITUG in typewriter mode XEDITUG practice exercise using XEDITUG used by EXPAND XEDIT using with compress and expand XEDIT SET TERMINAL XEDIT SET TEXT XEDIT SET THRESHOLD command CMSMIG SET TOFEOF XEDIT SET TRANSLAT XEDIT SET TRANSLATE command CMSUG SET TRUNC XEDIT use in CHANGE XEDIT with DBCS strings XEDIT SET VARBLANK XEDIT, XEDITUG with DBCS strings XEDIT SET VERIFY XEDIT, XEDITUG hexadecimal data, entering XEDIT with DBCS strings XEDIT SET WRAP XEDIT SET ZONE XEDIT use in CHANGE XEDIT with DBCS strings XEDIT SET = XEDITSETADDR operand of RDEVICE macro PLNGDE SETCMASK function of IUCV CONGREF, **SFPROG** completion CONGREF condition codes CONGREF parameter descriptions CONGREF parameter list CONGREF parameter list format SFPROG program exceptions CONGREF trace table entry format SFPROG using SFPROG SETKEY command

SET subcommand

used with column target XEDIT

changing storage key with ADMIN

Refer to the foldout page at the back of this book for a chart of abbreviations and their corresponding manuals.

SETMASK function of IUCV CONGREF. tabs PRIMER, XEDITUG **SFPROG** in typewriter mode XEDITUG completion CONGREF the age criterion for migration ADMIN condition codes CONGREF TOD clock, uniprocessor application parameter descriptions CONGREF **OPGDE** parameter list CONGREF up parameter list format SFPROG a file pool for remote use SFSAD program exceptions CONGREF AVS virtual machine profiles CONPAO communications directory CONPAO trace table entry format SFPROG using SFPROG communications gateway CONPAO SETPRT command ADMIN requester virtual machines CONPAO by accessing directories CMSREF server virtual machines CONPAO by creating aliases CMSREF SYSPROF EXEC CONPAO Sharing files UPSI byte ADGCMS SETREPLY subcommand SRPI virtual machine priority ADMIN SETROPTS command SECUR SETUP EXEC SFSAD SETRP macro GCSREF creating for VMSYS and VMSYSU compcod parameter GCSREF **SFSAD** SETUP operand description GCSREF dump parameter GCSREF of START command SYSCMD Set\_Client\_Security\_User\_ID (XCSCUI) rc parameter GCSREF routine CONGREF regs parameter GCSREF Set Conversation\_Security\_Password system parameter GCSREF user parameter GCSREF (XCSCSP) routine CONGREF wkarea parameter GCSREF Set\_Conversation\_Security\_Type (XCSCST) routine CONGREF setting amount of storage for AVS internal trace Set Conversation Type (CMSCT) routine table CONPAO CONGREF, SAACOM CMS PF keys PRIMER Set\_Deallocate\_Type (CMSDT) routine defaults for SENDFILE command, example CONGREF, SAACOM **CMSUG** Set Error Direction (CMSED) routine device-end interruption for virtual device CONGREF, SAACOM **GENCMD** Set Fill (CMSF) routine CONGREF, external tracing, AVS DIAG **SAACOM** external tracing, TSAF DIAG Set Log Data (CMSLD) routine CONGREF, in AGWTUN ASSEMBLE CONPAO **SAACOM** in AVS, determining CONPAO Set\_Mode\_Name (CMSMN) routine internal tracing, AVS DIAG CONGREF, SAACOM Set\_Partner\_LU\_Name (CMSPLN) routine length of ready message CMSUG limits on system resources during batch jobs CONGREF, SAACOM Set Prepare to Receive Type (CMSPTR) **CMSUG** number of connections to a resource allowed routine CONGREF, SAACOM **CONPAO** Set\_Receive\_Type (CMSRT) routine of PF keys, displaying PRIMER CONGREF, SAACOM page migration options ADMIN Set Return Control (CMSRC) routine page migration parameters ADMIN **CONGREF, SAACOM** paging variables ADMIN Set Send Type (CMSST) routine CONGREF program function keys CMSUG call description SAACOM screen colors and highlighting features example flow using SAACOM Set Sync Level (CMSSL) routine CONGREF **CMSUG** spool file characteristics GENCMD call description SAACOM SRM variables ADMIN example flow using SAACOM

system feature, condition, or event DIAG

Set TP Name (CMSTPN) routine CONGREF, **SAACOM** SEV field IPCSREF SEV operand of PRB command IPCSREF SEV output field of STAT command IPCSREF sever codes CONGREF SEVER function CONGREF SEVER function of IUCV SFPROG parameter descriptions CONGREF parameter list format SFPROG return codes CONGREF trace table entry format SFPROG using SFPROG SEVER function (APPCVM macro) completion CONGREF condition codes CONGREF from communication partner CONGREF mapped with APPC CONGREF overview **CONGREF** parameter descriptions CONGREF parameter list CONGREF program exceptions CONGREF return code CONGREF revoking your own resources CONGREF state changes CONGREF use in sample user program CONGREF SEVER function (CMSIUCV macro) parameter descriptions CONGREF sever interrupt CONGREF format CONGREF SEVER reason codes Identify System Service (\*IDENT) CONGREF \*CRM SFPROG SEVER state CONGREF connection to your communication partner CONGREF conversations CONGREF the \*CRM connection SFPROG severity code description of SYSMSG meanings SYSMSG types SYSMSG SF command See SENDFILE command SFBLOK IPCSREF, OPGDE SFS dump option of IPCSPRT command **IPCSREF** 

SFS (Shared File System) GIM, SECUR syntax and conventions ADRCMS Shared File System (SFS) administrator **CMSUG** accessing directories INTRO atomic requests ADGCMS calling general functions ADRCMS creating aliases INTRO closing directories ADGCMS files ADGCMS committing SFS file changes ADGCMS creating aliases ADGCMS definition ADMIN, SYSMSG description ADMIN, CMSUG, INTRO, SFSAD, SYSMSG design considerations ADGCMS directory CMSUG definition ADMIN, SYSMSG I/O ADGCMS erasing a directory ADGCMS files ADGCMS file I/O ADGCMS organization CMSUG pools ADGCMS, CMSUG sharing ADGCMS space ADGCMS, CMSUG granting authority for files and directories **ADGCMS** handling unexpected conditions ADGCMS load map IPCSREF locking ADGCMS locking files and directories INTRO manipulating directories ADGCMS files ADGCMS migration See SFS (Shared File System) migration opening directories ADGCMS SFS files ADGCMS parameters ADRCMS **COMMIT ADRCMS** dirname ADRCMS fmnumber ADRCMS fn ft ADRCMS length field ADRCMS

Refer to the foldout page at the back of this book for a chart of abbreviations and their corresponding manuals. namdef ADRCMS

NOCOMMIT ADRCMS	DMSOPDIR (SFS Open Directory)
reascode ADRCMS	ADRCMS
retcode ADRCMS	DMSOPEN (SFS Open) ADRCMS
token ADRCMS	DMSPOPWU (Pop Default Workunitid)
workunitid ADRCMS	ADRCMS
wuerror ADRCMS	DMSPURWU (Purge Workunitid) ADRCMS
performance tips ADGCMS	DMSPUSWU (Push Default Workunitid)
PUBLIC key word INTRO	ADRCMS
reading	DMSQCONN (SFS Query Connect)
directories ADGCMS	ADRCMS
files ADGCMS	DMSQFMOD (Query Filemode) ADRCMS
reason codes ADRCMS, SYSMSG	DMSQLIMU
return codes ADRCMS	(SFS Query Limits—Single User)
removing authority for files and directories	ADRCMS
ADGCMS	DMSREAD (SFS Read) ADRCMS
rolling back SFS file changes ADGCMS	DMSRELOC (SFS Relocate) ADRCMS
routines	DMSRENAM (SFS Rename) ADRCMS
DMSCHECK (SFS Check) ADRCMS	DMSREVOK (SFS Revoke Authority)
DMSCLDIR (SFS Close Directory)	ADRCMS
ADRCMS	DMSROLLB (SFS Rollback) ADRCMS
	DMSWRITE (SFS Write) ADRCMS
DMSCLOSE (SFS Close) ADRCMS	· · · · · · · · · · · · · · · · · · ·
DMSCOMM (SFS Commit) ADRCMS	DMSWUERR (SFS Wuerror Deblocker)
DMSCRALI (SFS Create Alias) ADRCMS	ADRCMS
DMSCRDIR (SFS Create Directory)	server
ADRCMS	abend message DIAG
DMSCRLOC (SFS Create Lock) ADRCMS	abends DIAG
DMSDELOC (SFS Delete Lock) ADRCMS	sharing
DMSERASE (SFS Erase) ADRCMS	across systems ADGCMS
DMSEXIDI (SFS Exist—Directory)	files or directories INTRO
ADRCMS	tasks
DMSEXIFI (SFS Exist—File) ADRCMS	accessing a directory CMSREF
DMSEXIST (SFS Exist) ADRCMS	copying files between minidisks and
DMSFILEC (SFS Filecopy) ADRCMS	directories CMSREF
DMSGETDA	creating a directory CMSREF
(SFS Get Directory—Searchall)	creating a lock CMSREF
ADRCMS	creating a namedef CMSREF
DMSGETDD (SFS Get Directory—Dir)	creating an alias CMSREF
ADRCMS	deleting a lock CMSREF
DMSGETDF (SFS Get Directory—File)	deleting a namedef CMSREF
ADRCMS	displaying list of directories CMSREF
DMSGETDI (SFS Get Directory) ADRCMS	entering commands from DIRLIST
DMSGETDK (SFS Get Directory-Lock)	CMSREF
ADRCMS	erasing a directory CMSREF
DMSGETDL (SFS Get Directory-Alias)	granting authorities CMSREF
ADRCMS	issuing XEDIT subcommands from DIRLIST
DMSGETDS	CMSREF
(SFS Get Directory—Searchauth)	listing CMS files CMSREF
ADRCMS	listing directories CMSREF
DMSGETDT (SFS Get Directory—Auth)	listing shared files and directories CMSREF
ADRCMS	naming directories CMSREF
DMSGETFM (Get Filemode) ADRCMS	top directory CMSUG
DMSGETWU (Get Workunitid) ADRCMS	using work units ADGCMS
DMSGRANT (SFS Grant Authority)	writing files ADGCMS
ADRCMS	

SFS (Shared File System) migration accessing files in SFS directories alias to update existing files CMSMIG alternatives for read-only restrictions on access CMSMIG COPYFILE and XEDIT to update existing files CMSMIG read-only restrictions on access CMSMIG SFS routines to update existing files **CMSMIG** CMS commands on SFS files ACCESS CMSMIG COPYFILE CMSMIG **ERASE CMSMIG** FINIS CMSMIG QUERY DISK CMSMIG QUERY SEARCH CMSMIG RENAME CMSMIG STATEW/ESTATEW CMSMIG STATE/ESTATE CMSMIG **XEDIT CMSMIG** existing programs on non-shared SFS files **CMSMIG** existing programs on SFS files CMSMIG existing programs on shared SFS files changing for files shared through aliases **CMSMIG** changing for new return codes CMSMIG changing for reading shared files that are locked CMSMIG replacing shared files CMSMIG modifying programs that replace SFS files COPYFILE or DMSFILEC CMSMIG FSOPEN macro with OPENTYPE = REPLACE CMSMIG SFS routines CMSMIG temporary, private files CMSMIG new and changed return codes CMSMIG non-SFS statements or macros on SFS files determining which method you should use **CMSMIG** EXECIO command on SFS files CMSMIG FS macros on SFS files CMSMIG high-level language statements on SFS files **CMSMIG** mixing SFS and non-SFS statements **CMSMIG** OS and DOS macros on SFS files **CMSMIG** 

non-shared SFS files, using existing programs **CMSMIG** replacing shared files CMSMIG return codes, new and changed CMSMIG SFS file storage space CMSMIG avoiding an unwanted roll back of updates **CMSMIG** CMS commands CMSMIG DOS simulation CMSMIG FS macros CMSMIG OS simulation CMSMIG Shared File System coexistence CMSMIG Shared File System exploitation CMSMIG accessing SFS directories CMSMIG atomic requests CMSMIG collecting SFS error information CMSMIG commiting and rolling back changes **CMSMIG** creating aliases to SFS files CMSMIG deciding to use an alias, access, or direct reference CMSMIG design considerations CMSMIG direct file reference CMSMIG DMSABN to perform recovery operations **CMSMIG** explicit locking for SFS files and directories **CMSMIG** granting authority for SFS files and directories CMSMIG handling unexpected conditions in the Shared File System CMSMIG implicit locking for SFS files and directories **CMSMIG** locking SFS files and directories CMSMIG name definitions (namedefs) CMSMIG performing recovery operations CMSMIG performing SFS directory I/O CMSMIG performing SFS file I/O CMSMIG removing authority for shared files and directories CMSMIG SFS file space CMSMIG sharing SFS files CMSMIG temporary space CMSMIG threshold warnings CMSMIG work units in application programs **CMSMIG** shared SFS files, using existing programs **CMSMIG** 

Refer to the foldout page at the back of this book for a chart of abbreviations and their corresponding manuals. SFSIPCS MAP IPCSREF

SGB operand of GDISPLAY subcommand	shared
IPCSREF	DASD INTRO
SGMTEXIT macro	disk, creating CMSUG
general format ADRCMS	files, editing CMSLOT, CMSUG,
shadow	PRIMER
copies of files SFSAD	minidisk INTRO
page table ADMIN, SYSMSG	pages, attached processor system OPGDE
page tables, definition ADMIN	pools of ISPF APGDE
segment tables, definition ADMIN	segments INTRO, SECUR
SHADOW option	definition INST
of EXTRACT XEDIT	modifying <b>GENCMD</b>
of QUERY XEDIT	definition ADMIN
of SET XEDIT	description PLNGDE
shadow tables ADMIN	protected ADMIN
bypass ADMIN, SECUR	protection ADMIN
eliminating and reestablishing ADMIN	unprotected ADMIN
for the $V = R$ user, MVS single processor	usage notes PLNGDE
mode ADMIN	virtual machine operation ADMIN
for the $V = V$ user <b>ADMIN</b>	SFS files, using existing programs
controlling RGOS	CMSMIG
MVS V = V  guest <b>RGOS</b>	storage, placing minidisk directory
preferred machine assist RGOS	information in ADMIN
single processor mode RGOS	VCU mode
enabling multiple GENCMD	miscellaneous devices PLNGDE
free storage requirements RGOS	tape devices PLNGDE
maintenance with DIAGNOSE code X'6C'	TDISK space PLNGDE
SFPROG	terminals PLNGDE
performance, improving RGOS	unit record devices PLNGDE
restrictions RGOS	VTAM GCSREF
MVS V=R guests RGOS	Shared File System (SFS)
MVS V = V guests RGOS	See SFS (Shared File System)
selective invalidation RGOS	SHARED storage subpools ADGCMS,
setting bypass GENCMD	CMSMIG
- · · -	
STFIRST directory option RGOS VMMAP RGOS	SHARE = operand
	SEGMENT macro ADRCMS
share disable locks	sharing
checking status of SFSAD	DASDs, 3380 ADMIN
creating SFSAD	data files INTRO
deleting SFSAD	devices, spooling OPGDE
SHARE lock on a file or directory CMSLOT,	EXECs and editor macros ADMIN
PRIMER	EXEC 2 variables with assembler language
SHARE option of FILELIST CMSLOT,	programs EXEC2
PRIMER	files
SHARE parameter	and directories, commands used CMSUG
DMSCRLOC (SFS Create Lock) ADRCMS	directory information ADMIN
SHARE parameter in CSL routines	how-to CMSUG
DMSDISFS (SFS Disable File Space) SFSAD	using administration authority SFSAD
DMSDISSG (SFS Disable Storage Group)	minidisks CMSUG
SFSAD	commands used CMSUG
SHARED option	MVS guest RGOS
of EXECDROP command CMSREF	VSE RGOS
of EXECMAP command CMSREF	system resources INTRO
	data integrity INTRO
	direct access storage INTRO
	minidisk INTRO

processor usage INTRO operands real storage segment INTRO raddr SYSCMD through spooling INTRO REIPL ADMIN, SYSCMD user CMS file INTRO responses SYSCMD virtual disks GENCMD summary OPGDE, SYSCMD Shexloc operand syntax diagram, class A SYSCMD of STCP command SYSCMD usage notes SYSCMD SHIFT key CMSLOT SHUTDOWN operand shift keys PRIMER of NETWORK command SYSCMD SHVBLOCK format SPIREF shift lock TERMREF SHIFT subcommand XEDIT SHVBLOCK macro ADRCMS with DBCS strings XEDIT SI Extension DIAG mapping DIAG SHIFT subcommand of XEDIT command **APGDE** SI macro XEDIT shift-in (SI) character XEDIT example of XEDIT shift-out (SO) character XEDIT SI prefix macro XEDIT shifting data SI prefix subcommand XEDITUG using SHIFT XEDIT SID option of EXECUPDT command using < prefix macro XEDIT **CMSREF** using > prefix macro XEDIT SID (subchannel-identification word) shifting display right or left XEDITUG **ADGCMS SHORT** SIDCODE option option of NOTE command CMSREF of EXTRACT XEDIT show excluded lines XEDIT of QUERY XEDIT SHOW WINDOW command CMSUG of SET XEDIT SHOWCB macro instruction GCSREF of TRANSFER XEDIT SHOWCB macro (VSAM) GCSREF side information acb parameter GCSREF overview SAACOM setting and accessing SAACOM area parameter GCSREF description GCSREF SID, storing in register 1 ADRCMS display the fields of an ACB GCSREF SIE information DIAG display the fields of an exit list GCSREF SIE (NUCON extension) DIAG display the fields of an RPL GCSREF SIGL exist parameter GCSREF set by CALL instruction SPIREF fields parameter GCSREF set by SIGNAL instruction SPIREF length parameter GCSREF special variable SPIREF object parameter GCSREF storing line numbers SPIUG rpl parameter GCSREF SIGN function SPIREF, SPIUG SHOWCB operand notation GCSREF sign-on procedure CMSLOT \*SIGNAL SFPROG showing message numbers SYSMSG execution of in subroutines SPIREF shutdown spooling considerations GENCMD in INTERPRET instruction SPIREF start OPGDE SIGNAL command of DMS/CMS APGDE **SNA SFPROG** SIGNAL instruction SPIREF usage in system termination OPGDE description of SPIUG SHUTDOWN command example of SPIUG described SYSCMD restrictions SPIUG example of use INTRO usage SPIUG

Refer to the foldout page at the back of this book for a chart of abbreviations and their corresponding manuals.

Signal System Service INTRO, SFPROG	shadow tables, controlling RGOS
connecting with SFPROG	transitions to and from RGOS
establishing communications with SFPROG	varying offline a 308x, 3090, or 4381
leaving SFPROG	processor RGOS
receiving signals SFPROG	verify, how to RGOS
sending signals SFPROG	session connection session limits CONPAC
signaling TERMREF	spaced output, forced SYSCMD
an error CONGREF	stepping
See SENDERR function of APPC/VM	See interactive debug
attention TERMREF	system use of the programmable operator
attention interruptions GENCMD	SFPROG
end-of-input-line TERMREF	Single Console Image Facility (SCIF) INTRO
keys used for TERMREF	SFPROG
signed number SPIUG	controlling multiple virtual machines
significant digits SPIUG	SFPROG
in arithmetic SPIREF	recommendations for SFSAD
signing off PRIMER	using SFPROG
signing on CMSUG, PRIMER	SINGLE option of COPYFILE command
SIGSAVE (DMKEXT save area) DIAG	CMSREF
simple list CMSLOT, PRIMER	SIO operand of TRACE command GENCMD
simple number	SIO (Start I/O instruction) ADMIN
See numbers	initiating full screen mode SFPROG
simple string expression as target	SIO (type X'06') entry DIAG
example of <b>XEDITUG</b>	six-word extended plist SPIREF
format of <b>XEDITUG</b>	size
simple symbols SPIREF simulated data sets	estimate control algorithm for projected
	working set SYSCMD
file mode number of 4 CMSUG	of file XEDITUG
simulated devices	of logical screen XEDITUG
I/O, specifying PLNGDE	of logical screen defined XEDIT
simulated OS/MVS supervisor services	of messages CONGREF
ADGCMS	SIZE option
simulating	of EXTRACT XEDIT
See also OS/MVS simulation	of NAMEFIND command CMSREF
attention interruption GENCMD	of QUERY XEDIT
hardware store GENCMD	of TRANSFER XEDIT
interruptions GENCMD	SIZE WINDOW command CMSUG
not ready status for a virtual device	operands
GENCMD	Size = XEDITUG
real reset button GENCMD	sizing
real restart button GENCMD	a virtual screen XEDIT
VSE functions by CMS ADGCMS	a window XEDIT
OS/MVS macro ADGCMS	skeleton libraries, ISPSLIB APGDE
single	skipping
instruction mode ADMIN	instructions in a loop SPIUG
processor mode SECUR	lines EXEC2
definition of RGOS	SL operand
error recording RGOS	of FILEDEF command CMSREF
obtaining a VM/SP HPO dump RGOS	slash (/)
option, SPMODE command INTRO	as a separator
PSW restart, using with RGOS	in CHANGE command CMSLOT
restrictions RGOS	in CLOCATE command CMSLOT
setting SYSCMD	in LOCATE command CMSLOT
setting off/on RGOS	

as an operand logical units in COMPARE command CMSLOT in COPYFILE command CMSLOT in FILELIST command CMSLOT in RECEIVE command CMSLOT in SCRIPT command CMSLOT SLC (set location counter) loader control statement ADGCMS, CMSREF SLEEP command CMSUG, GENCMD described **GENCMD** operand nn SEC/MIN/HRs GENCMD responses **GENCMD** usage notes **GENCMD** slicing, time INTRO SLREC synonym to sort FILELIST CMSUG SLVI tag, product parameter file SERV SMALLINT data type in SQL APGDE COBOL APGDE FORTRAN APGDE SMODE synonym to sort FILELIST CMSUG SMSG command CMSUG, GENCMD, **SFPROG** described **GENCMD** operands msgtext GENCMD userid **GENCMD** responses GENCMD usage notes GENCMD SMSG operand of SET command GENCMD SNA userid operand of DISABLE command SYSCMD of ENABLE command SYSCMD SNA (System Network Architecture) CONPAO, GCSREF, SFSAD benefits INTRO communicating with programs in **CMSMIG** communications between programs in collection CONPAO console communication services SFPROG monitored in CP internal trace table SYSCMD definition ADMIN, CONPAO, INTRO, **SYSMSG** example of coding an SNA controller **PLNGDE** introductory description INTRO logging on at a SNA terminal GCSREF

connecting previously unconnected **SYSCMD** disabling SYSCMD LU 6.2 protocol See APPC (Advanced Program-to-Program Communication)/VM network CONGREF, SAACOM components INTRO control unit GCSREF node INTRO path between terminal and virtual machine **GCSREF** resource located in sample communications directory entry for **CONPAO** service transaction programs SAACOM summary of communications between programs CONPAO terminals TERMREF LOCATE raddr command not valid SYSCMD logging off TERMREF terms CONGREF, CONPAO contention CONPAO conversation CONPAO conversation security levels CONPAO logical unit CONPAO LU name CONPAO LU 6.2 protocol CONPAO mode name CONPAO nodes CONPAO parallel session CONPAO session CONPAO session limit CONPAO transaction program CONPAO view of collection CONPAO VM/SP support SFPROG accounting SFPROG CMS mode SFPROG command handling SFPROG communication interfaces SFPROG console mode SFPROG enabling SNA terminals SFPROG environments supported SFPROG establishing connections SFPROG full screen support mode SFPROG functions, SNA SFPROG I/O processing SFPROG MORE/HOLDING condition SFPROG

NCF and FEF sharing SFFROG	SOS option
operator considerations SFPROG	ALARM XEDIT
real device simulation SFPROG	CLEAR XEDIT
redisplay of input line for terminals	LINEADD XEDIT
SFPROG	LINEDEL XEDIT
screen management SFPROG	NULLS XEDIT
shutdown SFPROG	PFn XEDIT
system structure SFPROG	POP XEDIT
trace table entries SFPROG	PUSH XEDIT
TRQBLOK SFPROG	TABB XEDIT
user termination SFPROG	TABCMD XEDIT
WEBLOK SFPROG	TABCMDB XEDIT
WEIBLOK SFPROG	TABCMDF XEDIT
VM/SP virtual console support SFPROG	TABF XEDIT
VTAM service machine SFPROG	SOS subcommand XEDIT
with GCS GCSREF	sounding the alarm CMSREF, XEDIT
communicating with programs in	source code
CMSMIG	loading INST
SNAME command CMSLOT	source files
SNAME synonym to sort FILELIST	adding comments ADGCMS
CMSUG	assembling
SNS operand	identifying macro libraries CMSREF
of TRACE command GENCMD	deleting records ADGCMS
SNTMAP EXEC PLNGDE	for assembler CMSREF
introduction PLNGDE	inserting records ADGCMS
use in installing saved segments	IOCP, considerations for coding PLNGDE
PLNGDE	multiple updates to using CTL option of
use in installing saved systems	XEDIT ADGCMS
PLNGDE	national language SFPROG
software support	replacing records ADGCMS
for virtual machines PLNGDE	sample using UPDATE command ADGCMS
software-error information IPCSREF	updating with EXECUPDT command
SolutionPac GIM, INTRO	CMSREF
solving performance problems SFSAD	source, IUCV SECUR
option of DSERV command CMSREF	source maintained, definition SERV
SORT command APGDE, CMSLOT, PRIMER,	source module, description INTRO
SPIUG, XEDITUG	source of the program and retrieval of
to specify file mode numbers CMSUG	information SPIREF
sort fields CMSLOT, PRIMER	SOURCE option of PARSE instruction
SORT macro XEDIT	SPIREF
example of XEDIT	source program CMSLOT
SORT subcommand of XEDIT command	defined INTRO
APGDE	source statement libraries, VSE, displaying
example of use INTRO	directories CMSREF
SORT option of DSERV command CMSREF	SOURCE subcommand of TESTFORT
SORTED option of DATE function SPIREF	command APGDE
sorting XEDIT, XEDITUG	source symbol table, assembler, generating
a file PRIMER, SPIUG	CMSREF
characters SPIUG	source update file
CMS files CMSUG	applying updates to national
directories of DOS/VSE private libraries	language-related
ADGCMS	files using VMFNLS SERV
files in FILELIST CMSLOT, CMSUG	CO-REQ statement SERV
lines in a file, using SORT CMSLOT	So they omitment black

creating text libraries using VMFTXT	SPAN option
SERV	of EXTRACT XEDIT
DEPEND statement SERV	of QUERY XEDIT
example SERV	of SET XEDIT
file types SERV	of TRANSFER XEDIT
general description SERV	spanned records, usage ADGCMS
IF-REQ statement SERV	spanning lines XEDITUG
PREREQ statement SERV	SPB (set page boundary) card ADMIN,
punching new nucleus using VMFLOAD	SERV
SERV	special characters SPIREF
updating macro libraries using VMFMAC	in file names and file types CMSUG
SERV	in typewriter mode
updating source files using VMFASM	altering XEDITUG
SERV	using XEDITUG
updating source files using VMFHASM	3270 Text feature CMSUG
SERV	special considerations
source update procedure SERV	typewriter-like terminals TERMREF
SOURCELINE function SPIREF, SPIUG	SPECIAL directory control statement RGOS
space	MVS guest RGOS
accounting for use of SFSAD	operands
	•
adding to the file pool SFSAD	devtype PLNGDE
allocating to users SFSAD	IBM PLNGDE
allocation, increasing ADMIN	TELE PLNGDE
page space ADMIN	vdev PLNGDE
spool space ADMIN	VM under VM RGOS
bar PRIMER	VSE RGOS
between lines of text CMSUG	Special Message Facility SFPROG, SYSMSG
changing amounts allocated to users	buffer length SFPROG
SFSAD	description SFPROG
determine free extents for VSAM	introduction SFPROG
CMSREF	receiving messages via IUCV SFPROG
directing control data backups to SFSAD	receiving messages via VMCF SFPROG
increasing file pool limit of SFSAD	sending messages SFPROG
managing SFSAD	SMSG command SFPROG
monitoring consumption of SFSAD	special message flag (VMCPSMSG) SFPROG
querying a user's allocation SFSAD	turning on or off SFPROG
remaining, displaying <b>PRIMER</b>	special messages
removing from file pool SFSAD	controlling whether you receive them
setting warning threshold for SFSAD	CMSUG, GENCMD
SPACE command INTRO	special symbols
described SYSCMD	use of <b>GENCMD</b> , <b>SYSCMD</b>
operands	special variables SPIUG
lprt SYSCMD	RC SPIREF, SPIUG
raddr SYSCMD	RESULT SPIREF, SPIUG
responses SYSCMD	SIGL SPIREF, SPIUG
summary OPGDE, SYSCMD	special-feature keyboards TERMREF
syntax diagram, class D SYSCMD	-
SPACE function SPIREF	
span lines, allowing string target to XEDIT	

specification exception	splitting
ACCEPT CONGREF	clauses SPIUG
CONNECT CONGREF	CMS files into smaller files CMSUG
DCLBFR CONGREF	data SPIUG
DESCRIBE CONGREF	lines XEDITUG
RECEIVE CONGREF	the screen APGDE, PRIMER,
SENDCNF CONGREF	XEDITUG
SENDCNFD CONGREF	SPLOAD EXEC
SENDDATA CONGREF	format INST
SENDERR CONGREF	function INST
SENDREQ CONGREF	messages INST
SETCMASK CONGREF	operands INST
SETMASK CONGREF	profile syntax INST
SEVER CONGREF	usage notes INST
TESTCMPL CONGREF	SPLOAD PROFILE
specification list for COPYFILE command	loading INST
format CMSREF	syntax INST
specifying	tailoring INST
See also defining	SPLTJOIN macro XEDIT
an alternate userid with DIAGNOSE	SPLTJOIN subcommand of XEDIT
code X'D4' SFPROG	command APGDE
DASD space for CP message repository	with DBCS strings XEDIT
SFPROG	SPMODE command RGOS
file mode numbers on DLBL and FILEDEF	described SYSCMD
commands CMSUG	example of use INTRO
how full paging areas must be before	operands
migration ADMIN	OFF SYSCMD
routing texts SFPROG	ON SYSCMD
to an NCCF or NetView operator	summary OPGDE, SYSCMD
SFPROG	syntax diagram, class A SYSCMD
3800 printer options ADMIN	usage notes SYSCMD
SPECS option of COPYFILE command	SPMODE operand
CMSREF	of QUERY command GENCMD,
speed of paths CONPAO	SYSCMD
SPELLCHK option of SCRIPT command	spool
CMSLOT, PRIMER	batch job statement INTRO
spelling check CMSLOT, PRIMER	batch machine output INTRO
SPGEN EXEC CONPAO	buffers OPGDE
SPIE DIAG	class
SPILL option	changing GENCMD
of EXTRACT XEDIT	modifying GENCMD
of QUERY XEDIT	control statement INTRO
of SET XEDIT	defining GCSREF
*SPL SFPROG	definition ADMIN, SYSMSG
SPLINK DIAG	operator task INTRO
split a line	space considerations with CPTRAP DIAG
at column number(s) XEDIT	to copy screen to printer XEDIT
at column pointer XEDIT	SPOOL command ADMIN, CMSLOT,
at cursor PRIMER, XEDIT	CMSUG, DIAG, GENCMD,
at string XEDIT	INTRO, OPGDE, PRIMER
SPLIT macro	changing characteristics of unit record
example of XEDIT	devices CMSUG
with DBCS strings XEDIT	described GENCMD
SPLIT subcommand of XEDIT command	example of use INTRO

**APGDE** 

operands	SPOOL directory control statement
CHARS name GENCMD	PLNGDE
CLASS GENCMD	MVS guest RGOS
CLOSE GENCMD	operands
CONSOLE GENCMD	BTS PLNGDE
CONSOLE START OPGDE	CFS PLNGDE
CONT GENCMD	class PLNGDE
COPY [*] GENCMD	DATACK PLNGDE
DEST dest GENCMD	devtype PLNGDE
DEST off GENCMD	11 PLNGDE
DIST distcode GENCMD	NODATCK PLNGDE
EOF GENCMD	vaddr <b>PLNGDE</b>
FCB name GENCMD	ww PLNGDE
FLASH name GENCMD	2WCGM PLNGDE
FOR GENCMD	2WCGM PLNGDE
FORM form GENCMD	VSE RGOS
HOLD GENCMD	SPOOL EXEC, avoiding SPIREF
MODIFY name <b>GENCMD</b>	spool file APGDE
NOCONT GENCMD	altering external attributes SYSCMD
NOEOF GENCMD	altering TAG information GENCMD
NOHOLD GENCMD	attributes
NOTERM GENCMD	date OPGDE
OFF GENCMD	filename OPGDE
PRINTER GENCMD	filetype OPGDE
PUNCH GENCMD	number of copies OPGDE
PURGE GENCMD	number of records OPGDE
READER GENCMD	spool file <b>OPGDE</b>
START GENCMD	spoolid OPGDE
STOP GENCMD	time <b>OPGDE</b>
SYSTEM GENCMD	userid <b>OPGDE</b>
TERM GENCMD	changing
TO GENCMD	attributes of GENCMD
userid GENCMD	characteristics GENCMD
vaddr <b>GENCMD</b>	filename GENCMD
* GENCMD	their order SYSCMD
options	control, CP commands used GENCMD
virtual device GENCMD	SYSCMD
responses GENCMD	controlling in job for CMS batch facility
spooling console output CMSUG	CMSUG
usage notes GENCMD	determining
use with TAG command GENCMD	number of closed GENCMD
used to combine multiple spool files	status of CMSUG
CMSUG	dumping SYSCMD
used with DISK DUMP command	external attribute buffer manipulation
CMSREF	SFPROG
used with PRINT command CMSREF	limiting number of PLNGDE
SPOOL CONSOLE command INTRO	limits OPGDE
	limits, spool file recovery <b>OPGDE</b>
	loading SYSCMD

logical printer	output OPGDE
at checkpoint start OPGDE	printer output OPGDE
at warm start OPGDE	punch output <b>OPGDE</b>
manipulating SFPROG, SYSCMD	virtual printer INTRO
MONITOR command, controlling SYSCMD	spoolid attribute
opening with DIAGNOSE code X'BC'	spool files <b>OPGDE</b>
SFPROG	spoolid number GENCMD
ordering SYSCMD	spoolid operand
querying characteristics GENCMD	of CHANGE command GENCMD,
produced by CMS batch facility, controlling	SYSCMD
CMSUG	of ORDER command GENCMD,
putting in system hold status SYSCMD	SYSCMD
reclaiming after sent SYSCMD	of PURGE command GENCMD,
recovery OPGDE	SYSCMD
releasing them from system hold status	of QUERY command GENCMD,
SYSCMD	SYSCMD
removing SYSCMD	of SPTAPE command SYSCMD
from system GENCMD	of TRANSFER command GENCMD,
reordering GENCMD	SYSCMD
saving ADMIN	spoolid, variable
sending to user SYSCMD	described GENCMD, SYSCMD
setting characteristics GENCMD	spooling GIM, OPGDE
storing SYSCMD	across a teleprocessing network OPGDE
system dump SFPROG	basic description CMSUG
TAG command GENCMD	changing
transmitting to remote location GENCMD	class GENCMD
unit record OPGDE	file attributes GENCMD
SPOOL MODULE, avoiding SPIREF	filename GENCMD
SPOOL operand	spoolid GENCMD
of IPCSPRT IPCSREF	class considerations GENCMD
of IPCSSCAN IPCSREF	commands OPGDE
of MONITOR command SYSCMD	privilege class D or G OPGDE
SPOOL PRINT CONT command APGDE	considerations OPGDE
SPOOL PRINT NOCONT CLOSE command	during abend GENCMD
APGDE	during shutdown GENCMD
SPOOL System Service SFPROG	console output CMSUG, TERMREF
definition SFPROG	CP management INTRO
establishing communications SFPROG	defining virtual devices PLNGDE
functions SFPROG	definition ADMIN, SYSMSG
CLOSE SFPROG	description GENCMD, INTRO
IUCV CONNECT SFPROG	determining number of closed files
IUCV SEND SFPROG	GENCMD
MESSAGE SFPROG	devices OPGDE
NOTIFY SFPROG	changing output class it serves
PURGE SFPROG	SYSCMD
READ-SFBLOK SFPROG	restarting SYSCMD
READ-SPLINK SFPROG	example INTRO
READ-XAB SFPROG	function type SYSCMD
SELECT SFPROG	functions
SEND SFPROG	operator OPGDE
to a logical printer SFPROG	input spool files <b>OPGDE</b>
spooled	I/O error handling <b>OPGDE</b>
card input <b>OPGDE</b>	modifying control options GENCMD
definition ADMIN, SYSMSG	multiple copies CMSUG
input handling <b>OPGDE</b>	manaple copies Civisou
mper minering Of Gree	

MVS virtual machine operands defining RGOS ALL SYSCMD recommendations RGOS CANCEL raddr SYSCMD CLASS SYSCMD operator described GENCMD, OPGDE, DEST SYSCMD device parameters SYSCMD SYSCMD putting files on system hold SYSCMD DUMP raddr SYSCMD responsibilities of OPGDE END SYSCMD options **OPGDE** FOR userid SYSCMD output classes, defining with RDEVICE FORM SYSCMD macro PLNGDE hold parameters SYSCMD output spool files OPGDE LEAVE SYSCMD overview INTRO LOAD raddr SYSCMD performance considerations PLNGDE MODE SYSCMD priority INTRO mode parameters SYSCMD purging files GENCMD NOHOLD SYSCMD real **OPGDE** PRINTER SYSCMD removing closed files from the system PUNCH SYSCMD PURGE SYSCMD **GENCMD** reordering files GENCMD READER SYSCMD resulting from I/O requests INTRO REWIND SYSCMD spool file limits OPGDE RUN SYSCMD spoolid GENCMD SADUMP SYSCMD stopping real SYSCMD SCAN raddr SYSCMD summary of CP activity INTRO source parameters SYSCMD support OPGDE spoolid SYSCMD system operator task INTRO STOP raddr SYSCMD transmitting files SYSHOLD SYSCMD SYSTEM SYSCMD locally **GENCMD** to remote locations GENCMD USERHOLD SYSCMD user control INTRO userid SYSCMD using a 3880 Model 13 or Model 23 for \* SYSCMD responses SYSCMD **ADMIN** virtual OPGDE summary OPGDE, SYSCMD console GENCMD, OPGDE syntax diagram, class D SYSCMD console data INTRO usage notes SYSCMD punch INTRO SQL (Structured Query Language) reader INTRO COBOL APGDE VM under VM data types APGDE first-level VM system RGOS invoking APGDE options RGOS commands APGDE second-level VM system RGOS ALTER TABLE APGDE COBOL APGDE options RGOS coding APGDE recommendations RGOS COMMIT WORK APGDE with RSCS OPGDE CONTINUE APGDE SPTAPE command INTRO, IPCSREF CREATE INDEX APGDE described SYSCMD CREATE TABLE APGDE CREATE VIEW APGDE DELETE APGDE

Refer to the foldout page at the back of this book for a chart of abbreviations and their corresponding manuals.

DROP INDEX APGDE	functions APGDE
DROP TABLE APGDE	AVG APGDE
DROP VIEW APGDE	COUNT APGDE
EXPLAIN APGDE	MAX APGDE
FORTRAN APGDE	MIN APGDE
GOTO APGDE	SUM APGDE
INCLUDE SQLCA APGDE	host variables APGDE
INSERT APGDE	INCLUDE statement in COBOL APGDE
query APGDE	index APGDE
RELOAD APGDE	INTO statement APGDE
ROLLBACK WORK APGDE	ISQL APGDE
SELECT APGDE	testing APGDE
UNLOAD APGDE	logical units of work APGDE
UPDATE APGDE	main variables, exceptions APGDE
WHENEVER APGDE	manipulating data APGDE
creating table views APGDE	multiple data base mode APGDE
creating tables APGDE	multiple user mode APGDE
data definition commands APGDE	OPEN statement APGDE
ALTER TABLE APGDE	ORDER BY clause APGDE
CREATE INDEX APGDE	predicates APGDE
CREATE TABLE APGDE	BETWEEN APGDE
CREATE TABLE AT GDE  CREATE VIEW APGDE	IN APGDE
DROP INDEX APGDE	IS NULL APGDE
DROP TABLE APGDE	LIKE APGDE
DROP VIEW APGDE	
	preprocessor APGDE
data manipulation commands APGDE	SQLSTART EXEC (FORTRAN)
DELETE APGDE	APGDE
INSERT APGDE	prototyping applications APGDE
UPDATE APGDE	query command APGDE
data types APGDE	QUOTE parameter APGDE
COBOL APGDE	RESOURCE (table creation authority)
FORTRAN APGDE	APGDE
data types for COBOL	search conditions APGDE
SMALLINT APGDE	single user mode APGDE
data types for FORTRAN	SQLCA (SQL communication area)
SMALLINT APGDE	APGDE
DBSPACE APGDE	SQLCODE APGDE
DECLARE CURSOR statement	SQLWARN APGDE
APGDE	SQLCODE APGDE
DECLARE statement in COBOL	SQLWARN APGDE
APGDE	SQLWARNING APGDE
DECLARE statements APGDE	statements
duplicates, DISTINCT keyword	CREATE VIEW APGDE
APGDE	DECLARE APGDE
error handling APGDE	DECLARE CURSOR APGDE
excluding duplicates APGDE	FETCH APGDE
EXECs APGDE	in FORTRAN APGDE
FETCH statement APGDE	INSERT APGDE
FORTRAN APGDE	INTO APGDE
data types APGDE	OPEN APGDE
invoking APGDE	UPDATE APGDE
preprocessor APGDE	table components
FROM clause APGDE	columns APGDE
	fields APGDE
	rows APGDE

SRPI macro testing APGDE variables considerations for using SRPI indicator APGDE filetype of SRPI loader SRPI main APGDE view definitions APGDE example SRPI WHERE clause APGDE reason for using SRPI WHERE CURRENT OF APGDE server definition SRPI SQLCA (SQL communication area) server request-handling sequence SRPI **APGDE** server termination SRPI SQLCODE APGDE what it is SRPI SQLWARN APGDE SRPI variables SQLWARNING APGDE **GETREQ SRPI** SQL/DS (Structured Query Language/Data SENDREQ SRPI System) GIM SETREPLY SRPI access control to data base SECUR SSAVE subcommand XEDIT access control to data base machine SSBLOK (swap set block) **SECUR** definition ADMIN, SYSMSG connect authority, levels of SECUR SSERV command data base catalog security SECUR description of ADGCMS database INTRO examples ADGCMS using ADGCMS **EXECUTE facility INTRO** general INTRO SSIZE command CMSLOT PREPARE facility INTRO SSIZE synonym to sort FILELIST CMSUG preprocessor INTRO SSM considerations SRPI remote relational access support SECUR SSM instruction, comparison to ENABLE security auditing SECUR macro CMSMIG with QMF INTRO SSM instruction, converting to the ENABLE SRECF synonym to sort FILELIST CMSUG macro ADGCMS SRF devices ST code, exception log messages SERV specifying, RIOGEN macro PLNGDE STACK option SRF operand of CONVERT COMMANDS command of RIOGEN macro PLNGDE **CMSREF** of EXECMAP command CMSREF SRM IBUFF operand of SET command ADMIN of GLOBALV command CMSREF SRM IBUFF, CP SET command RGOS of IDENTIFY command CMSREF SRM MHFULL operand of NAMEFIND command CMSREF of NUCXMAP command CMSREF of SET command ADMIN SRM operand STACK command APGDE of QUERY command SYSCMD STACK subcommand of XEDIT command of SET command ADMIN, SYSCMD **XEDIT** example of use INTRO SRM PGFULL operand of SET command ADMIN stacking SRM PGMACT operand CP commands in PROFILE EXEC for of QUERY command ADMIN VSE guest RGOS SRM PGMTLIM operand lines EXEC2, XEDIT of SET command ADMIN null lines SRM PREPAGE, CP SET command RGOS after attention interruption CMSUG SRM (System Resources Management) at your terminal CMSUG STACKR option of GLOBALV command **SYSCMD CMSREF** 

Refer to the foldout page at the back of this book for a chart of abbreviations and their corresponding manuals.

CHARS SYSUMD
CLASS SYSCMD
DEFFCB SYSCMD
DEST SYSCMD
FCB SYSCMD
FILEFCB SYSCMD
FLASH SYSCMD
FORM SYSCMD
IMAGE SYSCMD
lprt SYSCMD
MANUAL SYSCMD
NOSEP SYSCMD
NO3800 SYSCMD
OFF SYSCMD
PRINTER SYSCMD
PUNCH SYSCMD
PURGE SYSCMD
raddr SYSCMD
READER SYSCMD
SETUP SYSCMD
* SYSCMD
operator use INTRO
responses SYSCMD
summary OPGDE, SYSCMD
syntax diagram, class D SYSCMD
usage notes SYSCMD
used with FETCH command ADGCMS
START directory function PLNGDE
Start I/O (SIO) instruction
handling ADMIN
initiating full screen mode SFPROG
monitored in CP internal trace table
SYSCMD
reducing ADMIN
START operand
of FETCH command CMSREF
of INCLUDE command CMSREF
of LOAD command APGDE, CMSREF
of LOCATE subcommand IPCSREF
of LOCATE (UP) subcommand IPCSREF
of MONITOR command SYSCMD
of NAMEFIND command CMSREF
of SPOOL command GENCMD
start-up parameters
ACCOUNT SFSAD
ADMIN SFSAD
AUDIT SFSAD
BACKUP SFSAD
CATBUFFERS SFSAD
CTLBUFFERS SFSAD
descriptions of SFSAD
DUMP SFSAD
ESECURITY SFSAD
ETRACE SFSAD
FILEPOOLID SFSAD

FORMAT SFSAD programs GCSREF the programmable operator SFPROG FULLDUMP SFSAD GROUPTHRESH SFSAD the server SFSAD ITRACE SFSAD the VSE/POWER printer RGOS LOCAL SFSAD to use XEDIT CMSLOT, PRIMER MSGS SFSAD TSAF CONPAO NOACCOUNT SFSAD VM/SP HPO operations OPGDE NOAUDIT SFSAD starttime operand of TIMESPAN NOBACKUP SFSAD subcommand IPCSREF NODUMP SFSAD **NOESECURITY SFSAD** map of storage allocations OPGDE NOETRACE SFSAD system OPGDE NOFORMAT SFSAD STAT command DIAG NOITRACE SFSAD description IPCSREF NOMSGS SFSAD format IPCSREF NORESTORE SFSAD messages IPCSREF NOSAVESEGID SFSAD operands IPCSREF REMOTE SFSAD output fields IPCSREF RESTORE SFSAD responses IPCSREF SAVESEGID SFSAD sample STATALL LOCAL file specifying SFSAD **IPCSREF** specifying during generation SFSAD usage notes IPCSREF **USERS SFSAD** STAT option of LISTIO command starter set of GML PRIMER **CMSREF** starter system INTRO STATALL LOCAL file IPCSREF configuration INST sample IPCSREF directories supplied PLNGDE STAtarea operand general description INST of SCREEN command GENCMD procedure for installing VM INST state block (STBLK) DIAG restoring from tape INST AEB block DIAG tape INST LINK block DIAG using to install VM INST SVC block DIAG versions available INST task waiting DIAG starter-set calls wait count **DIAG** description SAACOM state changes examples SAACOM ACCEPT CONGREF list SAACOM ALLOCATE (APPC) CONGREF starting CONFIRM (APPC) CONGREF See also conversation CONFIRMED (APPC) CONGREF See also gateways CONNECT CONGREF a program PRIMER DCLBFR CONGREF an EXEC PRIMER DEALLOCATE (APPC) CONGREF AVS CONPAO RECEIVE CONGREF communications CONGREF RECEIVE\_AND\_WAIT (APPC) control switch assist RGOS **CONGREF** full-screen CMS PRIMER REQUEST\_TO\_SEND (APPC) multiple user mode processing SFSAD **CONGREF** point for execution of module, setting RTRVBFR CONGREF **CMSREF** SENDCNF CONGREF printers under VM RGOS SENDCNFD CONGREF

Refer to the foldout page at the back of this book for a chart of abbreviations and their corresponding manuals.

SENDDATA CONGREF	'F' pending XEDIT, XEDITUG
SENDERR CONGREF	'M' or 'MM' pending XEDITUG
SENDREQ CONGREF	'P' pending XEDIT, XEDITUG
SEND_DATA (APPC) CONGREF	'XX' pending XEDIT
SEND ERROR (APPC) CONGREF	'' pending XEDIT, XEDITUG
SEVER CONGREF	'<<' pending XEDIT
STATE command CMSMIG	'>>' pending XEDIT
used with OS/MVS data sets ADGCMS	""" pending XEDIT, XEDITUG
state table	conversation paths between VTAM and VM
abbreviations SAACOM	CONPAO
example of how to use SAACOM	file IPCSREF
for conversations SAACOM	information in full-screen CMS CMSUG
list of states SAACOM	line PRIMER
STATE (keyword definition) IPCSREF	messages
statement	hardware and program <b>OPGDE</b>
APPL definition CONPAO	system operation OPGDE
CP directory	MIH ADMIN
See directory (virtual machine)	notices PRIMER
IUCV control	notices in full-screen CMS
See control statements, IUCV	enter a command or press a PA or PF key
of VM/SP system integrity SECUR	CMSUG
VBUILD CONPAO	
	enter your response in vscreen vname CMSUG
states	
APPC/VM CONGREF	executing a command CMSUG scroll forward for more information in
CONFIRM CONGREF	
CONNECT CONGREF	vscreen vname CMSUG
Receive CONGREF	of a file pool SFSAD
RESET CONGREF	of AVS, getting CONPAO
Send CONGREF	of editing session XEDITUG
SEVER CONGREF	storing virtual machine GENCMD
switching CONGREF	system information SYSCMD
conversation	table, file ADRCMS
description SAACOM	words, tracing GENCMD
pseudonyms SAACOM	STATUS field IPCSREF
STATEW command CMSMIG	STATUS macro XEDIT
STATEW operand	STATUS operand
FSSTATE macro ADRCMS	of IMMCMD command CMSREF
statistics INTRO	of QUERY command SYSCMD
status	of STORE command GENCMD
action, summary TERMREF	STATUS output field of STAT command
area TERMREF	IPCSREF
defining display features XEDITUG	STATUS virtual screen PRIMER
during macro execution XEDIT	STATUS window PRIMER
during macro processing XEDITUG	STATUS, logical device support facility
during prefix subcommands XEDIT	function SFPROG
im multiple logical screens XEDIT	STAY option
location on screen XEDITUG	of EXTRACT XEDIT
resetting XEDIT	of QUERY XEDIT
in full-screen CMS CMSUG	of SET XEDIT
in XEDIT PRIMER	of TRANSFER XEDIT
area message	STBLK (state block) DIAG
'C' or 'CC' pending XEDIT, XEDITUG	STBYPASS operand
'D' or 'DD' nending XEDIT XEDITUG	of SET command ADMIN. GENCMD

STBYPASS option SECUR STMULTI operand STBYPASS VR operand of SET command ADMIN, GENCMD, of the SET command RGOS RGOS STBYPASS command RGOS STMULTI command RGOS STCP command ADMIN, DIAG, SECUR STOP action routine SFPROG described SYSCMD operands STOP command SFPROG hexdata SYSCMD programmable operator SFPROG STOP directory function PLNGDE hexloc SYSCMD hexword SYSCMD STOP operand of IPL command GENCMD Lhexloc SYSCMD Mhexloc SYSCMD of MONITOR command SYSCMD MLhexloc SYSCMD of SPOOL command GENCMD MShexloc SYSCMD STOP operator command SFSAD STOP raddr operand Nhexloc SYSCMD NLhexloc SYSCMD of SPTAPE command SYSCMD NShexloc SYSCMD stop recording data in MONITOR file, DIAGNOSE code X'DC' SFPROG Shexloc SYSCMD responses SYSCMD STOP TSAF command (TSAF) CONPAO STCP DIAG stopping summary OPGDE, SYSCMD a virtual machine GENCMD syntax diagram, class C SYSCMD AVS disruptively CONPAO usage notes SYSCMD AVS non-disruptively CONPAO stealing PSWs CMSMIG channel program SYSCMD commands GCSREF description of SPIUG communications with a program CONGREF example of SPIUG conversations through a gateway CONPAO of a variable execution DIAG, EXEC2 assignment to SPIREF virtual machine GENCMD description of SPIREF full-screen CMS PRIMER used in DROP instruction SPIREF initial program load (IPL) procedure **GENCMD** used in PROCEDURE instruction SPIREF multiple user mode processing SFSAD STEM option programs GCSREF of EXECIO command CMSREF security auditing SFSAD of PER command GENCMD spooling operations on real unit record devices SYSCMD stepping through programs See interactive debug the batch virtual machine OPGDE step, definition of SAACOM the programmable operator facility STFIRST directory option RGOS **SFPROG** STIMER macro GCSREF trace record writing to storage CONPAO bintvl parameter GCSREF TSAF CONPAO description GCSREF storage dintvl parameter GCSREF above 16Mb exit routine parameter GCSREF program restrictions ADMIN real parameter GCSREF SYSCOR macro ADMIN tod parameter GCSREF accessing SPIREF wait parameter GCSREF address translation INTRO STMT option of ASSEMBLE command allocation INTRO **CMSREF** allocation of main SECUR

Refer to the foldout page at the back of this book for a chart of abbreviations and their corresponding manuals.

altering virtual GENCMD	greater than than 16Mb
anchor blocks DIAG	preferred machine assist guest ADMIN
common storage anchor blocks (CSAB)	storage map ADMIN
DIAG	SYSCOR macro ADMIN
private storage anchor blocks (PSAB)	group backup
DIAG	comparison with control data backup
and processor use	SFSAD
See Diagnosis Reference	contents of SFSAD
available in your virtual machine calculated	creating SFSAD
by CMS ADGCMS	FILEPOOL BACKUP command
candidates for caching, 3880 and 3990	SFSAD
ADMIN	FILEPOOL CLEANUP command
clearing to zeros <b>GENCMD</b>	SFSAD
in CMS/DOS CMSREF	FILEPOOL RESTORE command
with LOAD command CMSREF	SFSAD
clearing virtual GENCMD	running concurrently SFSAD
considerations for MVS V = R guest RGOS	saving outdated copies of SFSAD
contents, altering DIAG	to another file pool SFSAD
real storage DIAG	user access during SFSAD
STCP command DIAG	group 1
STORE command DIAG	See catalog storage group
virtual machine storage DIAG	groups
ZAP command DIAG	adding space to SFSAD
ZAPTEXT command DIAG	allocating space to a user within SFSAD
control features for the 3990 Model 3	balancing use of SFSAD
ADMIN	block size of minidisks within SFSAD
DASD	changing user space allocations within
accounting for use of SFSAD	SFSAD
adding to the file pool SFSAD	concurrency during a restore SFSAD
allocating to users SFSAD	defining SFSAD
changing amounts allocated to users	definition CMSUG
SFSAD	defining maximum number of SFSAD
directing control data backups to	deleting users from SFSAD
SFSAD	description of SFSAD
increasing file pool limit of SFSAD managing SFSAD	determining when space is needed SFSAD disabling SFSAD
monitoring consumption of SFSAD	disabling after media failure SFSAD
querying a user's allocation SFSAD	enabling SFSAD
removing from file pool SFSAD	enrolling users in SFSAD
setting warning threshold for SFSAD	FILEPOOL BACKUP command SFSAD
execution from SPIREF	FILEPOOL CLEANUP command SFSAD
directory	FILEPOOL RESTORE command SFSAD
definition ADMIN, SYSMSG	in VMSYS SFSAD
3880 ADMIN	in VMSYSU SFSAD
displaying use and contention for it	maximum number of SFSAD
SYSCMD	maximum number of minidisks per SFSAD
dynamic paging ADMIN	maximum size of minidisk within SFSAD
finding upper limit of SPIREF	monitoring physical storage in SFSAD
for each model of the 3704/3705 PLNGDE	moving users to or from SFSAD
fragmentation DIAG	numbering consideration for SFSAD
free	restoring SFSAD
See free storage management	restoring multiple SFSAD
	setting space warning threshold for SFSAD
	sharing CMSUG

user considerations during restore SFSAD what to do when full CMSUG maximum, replacing directory entry when to define additional SFSAD **SFPROG** how CP manages INTRO virtual machine, replacing directory entry how organized INTRO **SFPROG** increases CMSLOT space, saving SYSCMD initializing for module file execution subpools, managing **CMSREF** , creating ADRCMS deleting ADRCMS keys See also Diagnosis Reference releasing ADRCMS changing ADMIN subsystem restrictions PLNGDE displaying GENCMD task block DIAG printing **GENCMD** virtual PRIMER keys, extended support address INTRO decreasing consumption of SFSAD See Diagnosis Reference defining SFSAD comparing VM/SP HPO and MVS RGOS minimum requirement SFSAD multiprocessing with no V = R area RGOS monitoring consumption of SFSAD MVS nonpreferred guest, example RGOS recommended amount of SFSAD single processor mode w/o preferred recommended setting for SFSAD machine assist RGOS storage INTRO UP system for MVS V = R guest RGOS versus real INTRO with INCLUDE command CMSREF altering virtual machine GENCMD allocations map OPGDE displaying virtual GENCMD storage, virtual machine displaying virtual machine GENCMD addressing mode (AMODE) printing **GENCMD** definition of ADGCMS, CMSMIG management DIAG setting ADGCMS, CMSMIG tracing DIAG when to specify ADGCMS management, real bimodal addressing ADGCMS, CMSMIG changes to GETMAIN and FREEMAIN See Diagnosis Reference management, virtual machine **CMSMIG** See Diagnosis Reference comparison between System/370 and maximum size INTRO 370-XA addressing ADGCMS, CMSMIG modifying **GENCMD** converting from DMSFREE and of files CMSLOT DMSFRET to CMSSTOR CMSMIG pageable ADMIN creating subpools ADGCMS setting amount of it SYSCMD free storage management ADGCMS permanent PRIMER limitations ADGCMS, CMSMIG planning for requirements INTRO managing CMSMIG protection, keys managing subpools CMSMIG See Diagnosis Reference obtaining CMSMIG real, above 16Mb ADMIN releasing CMSMIG requests for prime residency mode (RMODE) monitored in CP internal trace table definition of ADGCMS, CMSMIG **SYSCMD** setting ADGCMS, CMSMIG requirements when to specify ADGCMS for directory group names ADMIN sample layout CMSMIG

Refer to the foldout page at the back of this book for a chart of abbreviations and their corresponding manuals.

sample storage layout ADGCMS,	store extended-identification code with
CMSMIG	DIAGNOSE code X'00' SFPROG
saved segment management CMSMIG	STORE STATUS command DIAG, RGOS
saved segments ADGCMS	storing
subpool types CMSMIG	CPU status GENCMD
STORAGE function SPIREF	files, in SFS directories
STORAGE operand	allocation of file space CMSUG
of DEFINE command GENCMD	file space CMSUG
of QUERY command SYSCMD	files, methods CMSUG
of QUERY VIRTUAL command	files, on both SFS directories and minidisks
GENCMD	CMSUG
Storage Protection	access with file mode A CMSUG
main storage SECUR	files, on minidisks CMSUG
paging SECUR	allocation of DASD space CMSUG
shared segments SECUR	into virtual storage GENCMD
storage-resident EXECs and editor macros	lines CMSLOT
discontinue use of the CMS installation	vector activity counter <b>GENCMD</b>
saved segment CMSREF	vector mask register GENCMD
listing CMSREF	vector register elements <b>GENCMD</b>
removing CMSREF	vector register pairs GENCMD
storarea, variable	vector registers GENCMD
described GENCMD, SYSCMD	vector status register GENCMD
store	virtual machine data GENCMD
real CP data DIAG	virtual machine status GENCMD
virtual data DIAG	STR option of GENMOD command
STORE command ADMIN, APGDE, CMSUG,	CMSREF
DIAG, GENCMD, INTRO	STREAM option
described GENCMD	of EXTRACT XEDIT
operands	of QUERY XEDIT
element GENCMD	of SET XEDIT
Greg GENCMD	of TRANSFER XEDIT
hexdword1 GENCMD	string CMSLOT
hexdword2 GENCMD	as literal constants SPIREF
hexloc GENCMD	as names of functions SPIREF
hexword1 GENCMD	as names of subroutines SPIREF
hexword2 GENCMD	character SAACOM
n GENCMD	comparing SPIUG
PSW GENCMD	comparison of SPIREF
STATUS GENCMD	concatenation of SPIREF
VAC GENCMD	copying SPIUG
VMR GENCMD	description of SPIREF, SPIUG
VP GENCMD	duplicating SPIUG
VR GENCMD	examples of SPIUG
vreg GENCMD	expression
VSR GENCMD	complex target as XEDITUG
Xreg GENCMD	example of specifying target as <b>XEDIT</b>
Yreg GENCMD	examples of specifying column-target as
, GENCMD	XEDIT
response GENCMD	format of XEDIT
segment protection ADMIN	
STORE DIAG	simple target as XEDITUG specifying column-target as XEDIT
	specifying target as XEDIT
usage notes GENCMD	
STORE event-type	hexadecimal specification of SPIREF
of PER command GENCMD	interpretation of SPIREF
MASK GENCMD	length of SPIREF

CLR function locating using a target XEDITUG using CLOCATE XEDITUG using CLOCATE in typewriter mode **XEDITUG** null SPIREF overlaying SPIUG quotes in SPIREF **ADRCMS** target XEDITUG verifying contents of SPIREF string operand of LOCATE subcommand IPCSREF of LOCATE (UP) subcommand IPCSREF SET function STRINIT macro conversion considerations CMSMIG format of ADRCMS STRIP function SPIREF structure and syntax SPIREF paging hierarchy ADMIN of a save area GCSREF structured data base (SDB) IPCSREF format IPCSREF keyword IPCSREF structured input XEDIT, XEDITUG subcommands Structured Query Language (SQL) See SQL (Structured Query Language) Structured Query Language/Data System (SQL/DS) See SQL/DS (Structured Query Language/Data System) CMS INTRO structure, SNA system SFPROG concept SPIREF style of programming SPIREF STYPE command CMSLOT STYPE synonym to sort FILELIST CMSUG suballocated VSAM cluster, defining **ADGCMS** subchannel-identification word (SID) **ADGCMS** SUBCOM general formats CMSMIG GETREO SRPI SUBCOM function CMSMIG, SPIREF calling routines dynamically ADRCMS command search function ADRCMS return codes ADRCMS SUBCOM macro **XEDITUG** ANCHOR function ERROR = operand ADRCMS

ERROR = operand ADRCMS NAME = operand ADRCMS defining subcommands ADGCMS deleting subcommands ADGCMS general formats ADGCMS, ADRCMS managing subcommand processors **QUERY** function ERROR = operand ADRCMS NAME = operand ADRCMS querying subcommands ADGCMS AMODE = operand ADRCMS ENTRY = operand ADRCMS ERROR = operand ADRCMS INTTYPE = operand ADRCMS KEY = operand ADRCMS NAME = operand ADRCMS SYSTEM = operand ADRCMS UFLAGS = operand ADRCMS UWORD = operand ADRCMS subcommand operand of PRINT subcommand IPCSREF ADDENTRY SRPI addressing of SPIREF assigning to PF key XEDIT checking for existence ADRCMS clearing ADRCMS controlling search order for XEDIT creating ADGCMS defining ADRCMS definition of ADGCMS DELENTRY SRPI deleting ADGCMS destinations SPIREF entering in input mode in XEDIT SPIUG defining range of operation XEDITUG entering on display terminal XEDITUG entering on typewriter terminal used in macros, list of XEDITUG with target operands XEDITUG writing your own XEDITUG managing ADRCMS

Refer to the foldout page at the back of this book for a chart of abbreviations and their corresponding manuals.

multiple	managing free storage
assigned to PF key XEDIT	creating ADRCMS
entered on command line XEDIT	deleting ADRCMS
processors CMSMIG	releasing ADRCMS
querying ADGCMS	task block DIAG
redisplaying using? <b>XEDIT</b>	SUBPOOL = operand
reexecuting XEDIT	CMSSTOR OBTAIN ADRCMS
SENDREQ SRPI	CMSSTOR RELEASE ADRCMS
SETREPLY SRPI	subroutines
using & XEDIT	ARG instruction SPIUG
subdirectories CMSUG	arguments for SPIUG
creating CMSREF	calling EXEC2, SPIREF
subl.book, variable	calls ADRCMS
described GENCMD, SYSCMD	description of SPIUG
submitting jobs	differences with functions SPIUG
to VSE/SP virtual machine RGOS	
•	example of SPIUG external SPIUG
under CMS RGOS	
using SUBVSE EXEC RGOS	external interface SPIREF
jobs to CMS batch facility CMSUG	forcing built-in or external reference
non-CMS users CMSUG	SPIREF
SUBPOOL macro	formatting output SPIUG
CREATE	internal SPIUG
ERROR = operand ADRCMS	naming of SPIREF
KEY = operand ADRCMS	passing back values from SPIREF
MSG = operand ADRCMS	PRODCEDURE instruction SPIUG
NAME = operand ADRCMS	protecting variables SPIUG
SYSTEM = operand ADRCMS	RETURN instruction SPIUG
TYPCALL = operand ADRCMS	returning from ADRCMS, EXEC2,
TYPE = operand ADRCMS	SPIREF
creating subpools ADGCMS	search order SPIUG
DELETE	sharing variables SPIUG
ERROR = operand ADRCMS	similarities with functions SPIUG
MSG = operand ADRCMS	use of labels SPIREF
NAME = operand ADRCMS	variables in SPIREF
TYPCALL = operand ADRCMS	description INTRO
TYPE = operand ADRCMS	subsetting options in DETAIL HELP
general formats ADGCMS, ADRCMS,	ALL CMSUG
CMSMIG	DESCRIPT CMSUG
managing storage subpools ADRCMS	ERRORS CMSUG
RELEASE	FORMAT CMSUG
ERROR = operand ADRCMS	NOTES CMSUG
MSG = operand ADRCMS	OPTIONS CMSUG
NAME = operand ADRCMS	PARMS CMSUG
TYPCALL = operand ADRCMS	substituting
TYPE = operand ADRCMS	compound symbols SPIUG
releasing free storage ADGCMS	in expressions SPIREF
subpools	in variable names SPIREF
free storage ADGCMS	symbols SPIUG
creating CMSMIG	using the INTERPRET instruction
releasing CMSMIG	SPIUG
types CMSMIG	using the VALUE function SPIUG
types Cividiville	variables EXEC2, SPIUG
	SUBSTR function SPIREF, SPIUG
	substring SPHIC

SUBSYS operand of CACHE command SYSCMD subsystem storage, 3880 Model 13 ADMIN Model 23 ADMIN subsystem support interface: SVC 199 **IPCSREF** subsystem-identification word, storing in register 1 ADRCMS subtraction SPIUG definition SPIREF operator SPIREF, SPIUG SUBVSE EXEC RGOS SUBWORD function SPIREF, SPIUG SUL operand of FILEDEF command **CMSREF** SUM function of SQL APGDE summaries APPC/VM functions CONGREF communications directory file fields **CONPAO** locally known LU name CONPAO of CMS commands CMSUG of CP command privilege classes CMSUG of CP commands CMSUG, GENCMD by function GENCMD, SYSCMD General User commands OPGDE System commands OPGDE, SYSCMD of HELP and HELPCONV control words **CMSUG** of Immediate commands CMSUG of initial PF key settings XEDITUG of IPCS commands IPCSREF of IPCSPRT subcommands IPCSREF of IPCSSCAN subcommands IPCSREF of migration problems ADMIN of prefix subcommands XEDIT, XEDITUG of subset for full-screen XEDITUG of subset for typewriter terminals XEDITUG of VM/SP concepts INTRO of XEDIT subcommands and macros XEDIT, **XEDITUG** possible VM connections CONGREF SCOMDIR NAMES file fields CONPAO state table CONGREF steps to follow when a TSAF abend occurs DIAG steps to follow when an AVS abend occurs DIAG

VM debugging commands DIAG VM support for connectivity CONPAO \$SERVER\$ NAMES file fields CONPAO summary option of IPCSPRT command IPCSREF of TRAPFILE command IPCSREF summary record IPCSREF summary record file IPCSREF supervisor assisted linkage ADGCMS, **CMSMIG** CMSCALL call-type values ADGCMS CMSCALL parameter list handling **ADGCMS** making the call ADGCMS overview ADGCMS receiving control ADGCMS register usage ADGCMS returning to the calling program ADGCMS setting up a parameter list ADGCMS SVC 202 call-type values ADGCMS SVC 202 parameter list handling ADGCMS USERSAVE control block ADGCMS supervisor calls (SVC) ADGCMS supervisor state ADGCMS supervisors pregenerated for VSE/SP RGOS support facilities for devices SFPROG of APPC/VM VTAM PLNGDE supported DIAGNOSE codes when you IPL with the PMAV option RGOS SAA environments SAACOM suppressing messages sent by the TELL command **CMSUG** special messages CMSUG automatic loading GENCMD passwords ADMIN, SYSCMD on the command line CMSUG surface analysis utility SFPROG suspending full-screen CMS PRIMER

Refer to the foldout page at the back of this book for a

chart of abbreviations and their corresponding manuals.

UCOMDIR NAMES file fields CONPAO

PER DIAG

tracing DIAG

SV code, exception log messages SERV

SVC (supervisor cans)	SVC 202
See also supervisor assisted linkage	call charts CMSMIG
CMS/DOS support routines ADGCMS,	comparison to CMSCALL macro
ADRCMS	CMSMIG
interruption	comparison with CMSCALL macro
monitored SYSCMD	ADRCMS
block DIAG	extended PLIST address for SRPI
dumps for MVS guest RGOS	server distinguishing how called SRPI
interrupts CMSMIG	server receives control (with ENDCMD
See also Diagnosis Reference	option) SRPI
creating an SVC interrupt handler	SRPI format of to invoke servers SRPI
ADGCMS	tokenized PLIST address for SRPI
deleting an SVC interrupt handler	example EXEC2
ADGCMS	SUBCOM function EXEC2
entry and exit linkage ADGCMS	SVCACCL operand
handling ADRCMS	of OPTION directory control statement
interrupts, external	PLNGDE
See Diagnosis Reference	SVCACCL option
levels ADGCMS	defining in directory PLNGDE
SVC Interrupt Handler Work Area (SVCWA)	SVCOFF operand
DIAG	of OPTION directory control statement
SVC interrupt (type X'05') entry <b>DIAG</b>	PLNGDE
SVC operand	SVCOFF option
of TRACE command GENCMD	defining in directory PLNGDE
SVC save area (SVCSAVE) DIAG	SVCOPSW (SVC old PSW) DIAG
SVC 76	SVCREGS (SVC interrupt save area) DIAG
error recording OPGDE	SVCSAVE (SVC save area) DIAG
from a second level virtual machine	SVCSECT (SVC interrupt work area) DIAG
SFPROG	SVCTRACE command APGDE, DIAG
how MVS and CP use RGOS	SVCTRACE command described INTRO
messages to system operator OPGDE	SVCWA (SVC interrupt handler work area)
SVC 199 code 10 IPCSREF	DIAG
SVC 199 code 100 IPCSREF	svc, variable
SVC 199 code 101 IPCSREF	described GENCMD, SYSCMD
SVC 199 code 110 IPCSREF	SVMstat directory option PLNGDE
SVC 199 code 120 IPCSREF	swap
SVC 199 code 130 IPCSREF	area ADMIN, SYSMSG
SVC 199 code 20 IPCSREF	fault ADMIN, SYSMSG
SVC 199 code 30 IPCSREF	list ADMIN, SYSMSG
SVC 199 code 31 IPCSREF	queue
SVC 199 code 40 IPCSREF	time for users specified SYSCMD
SVC 199 code 41 IPCSREF	set ADMIN, SYSMSG
SVC 199 code 50 IPCSREF	for which page forms are available
SVC 199 code 60 IPCSREF	SYSCMD
SVC 199 code 70 IPCSREF	migration ADMIN
SVC 199 code 70 H CSREF	swapped into storage SYSCMD
SVC 199 code 80 IPCSREF	SWAP class monitor records ADMIN
SVC 199 code 90 IPCSREF	SWAP class monitor records ADMIN SWAP operand
SVC 199 code 90 IPCSREF	_
SVC 199 code 91 IPCSREF SVC 199 services IPCSREF	of MONITOR command SYSCMD
disk error IPCSREF	swap-in logical data
	monitored in CP internal trace table
printer error IPCSREF	SYSCMD
subsystem support interface: SVC 199	swapping
IPCSREF SVC 199 codes available IPCSREF	definition ADMIN, SYSMSG
SVI. 199 CODES AVAITABLE THE SKIER	performance considerations PLNCDE

switched line TERMREF	symptom string IPCSREF
switching	in SYMPTOM subcommand IPCSREF
between CMS and the interactive interface	SYMPTOM subcommand of IPCSSCAN
RGOS	command
CMS tape volume ADGCMS	description IPCSREF
devices between systems RGOS	example output IPCSREF
states CONGREF	format IPCSREF
SWSIZE operand	functional category IPCSREF
of SYSPAG macro PLNGDE	messages IPCSREF
of SYSXSTOR macro PLNGDE	responses IPCSREF
SWTHSAVE (DMKSTK save area) DIAG	usage notes IPCSREF
SYM option of OPTION command	SYMPTOM SUMMARY file IPCSREF
CMSREF	conversion IPCSREF
symbol	symptom summary record IPCSREF
assigning values to SPIREF	symptoms of problems
classifying SPIREF	messages DIAG
compound SPIUG	compared with return codes DIAG
constant SPIREF	message identifier DIAG
description of SPIREF, SPIUG	message text DIAG
determining if it is a variable SPIUG	message variables DIAG
duplicate names of SPIUG	parts of <b>DIAG</b>
editor for GDDM INTRO	return codes DIAG
simple SPIREF	compared with messages DIAG
substituting SPIUG	SYNADAF macro (BSAM/QSAM)
table, reading SFPROG	GCSREF
uppercase translation SPIREF	acsmeth parameter GCSREF
use of SPIREF	description GCSREF
valid names SPIREF	parm parameter GCSREF
SYMBOL function SPIREF, SPIUG	SYNADRLS macro (BSAM/QSAM)
symbolic destination name CONGREF,	GCSREF (BS/HM/QS/HM)
CONPAO, SAACOM	description GCSREF
symbolic name	SYNCH macro GCSREF
assigning XEDITUG	description GCSREF
using SET POINT XEDIT	entry point parameter GCSREF
using .xxxx (prefix subcommand)	execute format GCSREF
XEDIT	list format GCSREF
displaying XEDIT	mf parameter GCSREF
transferring XEDIT	restore parameter GCSREF
SYMDMP option with COBOL compiler	state parameter GCSREF
APGDE	synchronous communication
symmetric multiprocessor	compared with asynchronous
DASD sharing with MVS guest RGOS	CONGREF
symptom records CONPAO, DIAG,	functions CONGREF
IPCSREF	
contents of DIAG	synchronous interrupt in an attached
definition of DIAG	processor system
	See Diagnosis Reference
example in SYMPTOM subcommand IPCSREF	real I/O interrupts
for AVS DIAG	See Diagnosis Reference
IOI AVS DIAG	SYNCLVL parameter of CONNECT CONGREF
	OI COMMECT COMBREE

Refer to the foldout page at the back of this book for a chart of abbreviations and their corresponding manuals.

syncpoint SAACOM	IUCV userid CONPAO
sync_level characteristic	IUCV *IDENT (gateway) CONPAO
extract SAACOM	IUCV *IDENT (resource) CONPAO
possible values SAACOM	message CONPAO
set SAACOM	of commands, interpreting PRIMER
SYNONYM	of macros and subcommands
abbreviation of	ADDENTRY macro SRPI
specifying XEDIT	ADDENTRY subcommand SRPI
assigning XEDITUG	CPRB macro SRPI
check, overriding with COMMAND	CSMRETCD macro SRPI
XEDIT	DELENTRY macro SRPI
command to invoke synonym tables	DELENTRY subcommand SRPI
CMSUG	GETREQ subcommand SRPI
controlling search for XEDIT	SENDREQ macro SRPI
defining for prefix subcommand XEDIT	SENDREQ subcommand SRPI
defining for subcommand XEDIT	SETREPLY subcommand SRPI
file type usage in CMS CMSUG	predefined functions EXEC2
not checking for <b>XEDITUG</b>	TSAF commands
rearranging operands of XEDIT	See commands, TSAF (Transparent
used to define synonyms for CMS and	Services Access Facility)
user-written commands CMSUG	user-defined functions EXEC2
SYNONYM option	checking
of EXTRACT XEDIT	See TRACE instruction
of QUERY XEDIT	SYNTAX condition of SIGNAL
of SET XEDIT	instruction SPIREF
of TRANSFER XEDIT	syntax diagrams
synonyms used to sort FILELIST	ACNT SYSCMD
SDATE CMSUG	ADSTOP command GENCMD
SLREC CMSUG	ATTACH SYSCMD
SMODE CMSUG	ATTN command GENCMD
SNAME CMSUG	AUTOLOG SYSCMD
SRECF CMSUG	BACKSPAC SYSCMD
SSIZE CMSUG	BEGIN command GENCMD
STYPE CMSUG	CACHE SYSCMD
syntax	CHANGE SYSCMD
APPCPASS directory statement CONPAO	CHANGE command GENCMD
AVS commands	CLOSE command GENCMD
See commands, AVS (APPC/VM VTAM	COMMANDS command GENCMD
Support)	COUPLE command GENCMD
BNF description EXEC2	CP commands GENCMD
command CONPAO	CPTRAP SYSCMD
conditional statements EXEC2	DCP SYSCMD
conventions, messages SYSMSG	DEFINE SYSCMD
description of SPIUG	DEFINE command GENCMD
diagrams	DETACH SYSCMD
See syntax diagrams	DETACH STSCMD  DETACH command GENCMD
	DIAL command GENCMD
error	
example of SPIUG	DISABLE SYSCMD
FORMAT function SPIUG	DISCONN command GENCMD
traceback after SPIREF	DISPLAY command GENCMD
trapping with SIGNAL instruction	DMCP SYSCMD
SPIREF	DRAIN SYSCMD
general SPIREF	DUMP command GENCMD
IUCV gatewayid CONPAO	ECHO command GENCMD
IUCV resourceid CONPAO	ENABLE SYSCMD

**OUERY** event types **BRANCH GENCMD** class A SYSCMD G[REG1] GENCMD class B SYSCMD INSTRUCT GENCMD class C SYSCMD MASK GENCMD class D SYSCMD STORE GENCMD class E SYSCMD EXTERNAL command GENCMD QUERY command GENCMD FLUSH SYSCMD QUERY (ALL) command GENCMD FORCE SYSCMD **QVM SYSCMD** READY command GENCMD FREE SYSCMD GIVE SYSCMD REPEAT SYSCMD HALT SYSCMD REQUEST command GENCMD HOLD SYSCMD RESET command GENCMD **INDICATE** REWIND command GENCMD class A SYSCMD SAVESYS SYSCMD class E SYSCMD SCREEN command GENCMD INDICATE command GENCMD SEND command GENCMD IPL command GENCMD SET LINK command GENCMD class A SYSCMD LOADVFCB command GENCMD class B SYSCMD class E SYSCMD LOCATE SYSCMD LOCK SYSCMD class F SYSCMD LOGOFF command GENCMD SET command GENCMD LOGON command GENCMD SHUTDOWN SYSCMD MESSAGE SYSCMD SLEEP command **GENCMD** MESSAGE command GENCMD SMSG command GENCMD MIGRATE SYSCMD SPACE SYSCMD MONITOR SYSCMD SPMODE SYSCMD MSGNOH SYSCMD SPOOL command GENCMD NETWORK SYSCMD SPTAPE SYSCMD NOTREADY command **GENCMD** START SYSCMD STCP SYSCMD options STORE command GENCMD **BOTH GENCMD** CMD GENCMD SYSTEM command GENCMD FROM GENCMD TAG command GENCMD NORUN GENCMD TERMINAL command GENCMD PASS GENCMD TRACE command GENCMD PRINTER GENCMD TRANSFER SYSCMD RANGE GENCMD TRANSFER command GENCMD RUN GENCMD UNLOCK SYSCMD STEP GENCMD VARY SYSCMD TERMINAL GENCMD VMDUMP command GENCMD ORDER SYSCMD WARNING SYSCMD ORDER command GENCMD \* command GENCMD PER command GENCMD #CP command GENCMD PURGE SYSCMD SYS operand PURGE command GENCMD of CHANGE command SYSCMD SYS option of LISTIO command CMSREF SYSACNT macro ADMIN, CONPAO

Refer to the foldout page at the back of this book for a chart of abbreviations and their corresponding manuals.

SYSBLOK operand	SYSMIH macro ADMIN
of NAMESYS macro PLNGDE	samples PLNGDE
SYSCAT assigned in CMS/DOS CMSREF	SYSMON macro ADMIN
SYSCAT system logical unit	SYSNAME operand
assigning in CMS/DOS ADGCMS	of DEFNUC macro PLNGDE
SYSCKP operand	of NAMESYS macro PLNGDE
of SYSRES macro PLNGDE	SYSNAMES table GCSREF
SYSCLB system logical unit	sysname, variable
assigning in CMS/DOS ADGCMS	described GENCMD, SYSCMD
unassigning ADGCMS	SYSNUC operand
SYSCLEAR macro SECUR	of SYSRES macro PLNGDE
SYSCLR operand	SYSOPR macro DIAG
of SYSRES macro PLNGDE	instruction used to specify virtual
SYSCMD command APGDE	card reader file OPGDE
SYSCOR macro DIAG	SYSOWN list volumes
diagnostic aids ADMIN	limits to detaching SYSCMD
instruction, AP operand OPGDE	SYSOWN macro
parameters	example PLNGDE
RMSIZE ADMIN	format PLNGDE
RSSIZE ADMIN	operands
storage greater than 16Mb ADMIN	VOLID PLNGDE
example ADMIN	SYSPAG areas, automatic reordering
using to control free storage allocation	ADMIN
ADMIN	SYSPAG macro ADMIN
using to maintain real storage RGOS	coding considerations PLNGDE
SYSCYL operand	definition ADMIN, SYSMSG
of NAMESYS macro PLNGDE	error messages PLNGDE
SYSDISK operand	example PLNGDE
of DEFNUC macro PLNGDE	example of use ADMIN
SYSDUMP1 PLNGDE	format PLNGDE
SYSERR operand	Format/Allocate (DMKFMT)
of SYSRES macro PLNGDE	considerations PLNGDE
SYSHOLD operand	mnotes PLNGDE
ALL SYSCMD	operands
of QUERY command GENCMD,	ORDER PLNGDE
SYSCMD	SWSIZE PLNGDE
of SPTAPE command SYSCMD	TYPE PLNGDE
SYSHRSG operand	Paging Storage ADMIN
of NAMESYS macro PLNGDE	parameters
SYSIN system logical unit	REORDER = ADMIN
assembler input CMSREF	restrictions PLNGDE
assigning in CMS/DOS ADGCMS	use with Paging Storage ADMIN
input for ESERV command ADGCMS	use with DDR ADMIN
logical unit assignment in CMS/DOS	SYSPARM option of ASSEMBLE command
CMSREF	CMSREF
SYSIPT system logical unit ADGCMS	SYSPCH system logical unit
assigned for ESERV program CMSREF	assigning in CMS/DOS ADGCMS
SYSJRL macro ADMIN	output from ESERV program ADGCMS
SYSLOG system logical unit ADGCMS	SYSPGCT operand
assigned in CMS/DOS CMSREF	of NAMENCP macro PLNGDE
SYSLST system logical unit	of NAMESYS macro PLNGDE
assigning in CMS/DOS ADGCMS	of NAME3800 macro PLNGDE
output from ESERV program	SYSPGNM operand
ADGCMS	of NAMESYS macro PLNGDE

SYSPLIST	SYSSPOOL operand
chaining structure ADMIN	of LOCK command SYSCMD
definition ADMIN, SYSMSG	of UNLOCK command SYSCMD
SYSPLIST control block ADMIN	SYSSTRT operand
SYSPRINT control statement	of NAMENCP macro PLNGDE
of DDR (DASD DUMP/Restore) ADMIN,	of NAMESYS macro PLNGDE
SFPROG	of NAME3800 macro PLNGDE
SYSPROF class monitor records ADMIN	system ADMIN
SYSPROF EXEC CMSUG, CONGREF,	abend DIAG
CONPAO	dumps OPGDE
bypassing ADMIN	activity display frames (SAD frames) OPGDE
creating ADMIN	RGOS
description of ADMIN	analyst, described GENCMD, OPGDE,
functions of ADMIN	SYSCMD
initialization ADMIN	and programmer logical units entered on
SET COMDIR command CONPAO	DLBL command CMSREF
SET COMDIR ON command CONPAO	assembler, building SERV
setting up a protected application	character set translation tables ADRCMS
environment ADMIN	generating a DSECT for using TRANTBL
SYSPROF operand	ADRCMS
of MONITOR command SYSCMD	communications directory CMSMIG
SYSRDR system logical unit ADGCMS	completion code GCSREF
SYSRES macro SECUR	configuration GIM
assigned in CMS/DOS CMSREF	console OPGDE, TERMREF
example PLNGDE	configuration aid PLNGDE
format PLNGDE	defining PLNGDE
operands	control file
SYSCKP PLNGDE	performance considerations PLNGDE
SYSCLR PLNGDE	preparing PLNGDE
SYSERR PLNGDE	supplied with starter systems PLNGDE
SYSNUC PLNGDE	SYSOWN macro PLNGDE
SYSRES PLNGDE	SYSPAG macro PLNGDE
SYSSPL PLNGDE	SYSRES macro PLNGDE
SYSTYPE PLNGDE	SYSXSTOR macro PLNGDE
SYSVOL PLNGDE	creating named SYSCMD
SYSWRM PLNGDE	definition OPGDE
parameters	definition files
SYSSPL OPGDE	changes to RGOS
special coding considerations PLNGDE	loading INST
SYSRES operand	printing INST
of SYSRES macro PLNGDE	setting up RGOS
SYSRLB system logical units assigned in	tailoring INST
CMS/DOS ADGCMS	directory
SYSSIZE operand	See also directory, system
of NAMESYS macro PLNGDE	and DIAGNOSE X'3C' SECUR
SYSSLB system logical units assigned in	and DIAGNOSE X'84' SECUR
CMS/DOS ADGCMS	and RACF SECUR
SYSSPL operand	defined INTRO
of SYSRES macro OPCDE PLNCDE	DMPP SECUR

Refer to the foldout page at the back of this book for a chart of abbreviations and their corresponding manuals.

function INST	logical units
in general SECUR	invalid assignments in CMS/DOS
loading INST	CMSREF
tailoring INST	listing assignments for in CMS/DOS
using DISKMAP EXEC to check changes	CMSREF
INST	SYSCLB ADGCMS
disk, files available CMSREF, CMSUG	SYSIN ADGCMS
dump directory entry, operating systems	SYSIPT ADGCMS
virtual machine example PLNGDE	SYSLOG ADGCMS
dump spool file, reading SFPROG	SYSLST ADGCMS
errors, recovering from SFSAD	SYSPCH ADGCMS
failure CMSLOT	SYSRDR ADGCMS
file, preparing INTRO	SYSRLB ADGCMS
file pool, building INST	SYSSLB ADGCMS
failure	valid assignments in CMS/DOS
dump unit OPGDE	CMSREF
monitor considerations ADMIN	logo file, DMKBOX
generation INST	function INST
defining your system PLNGDE	loading sample file INST
DMKRIO preparation PLNGDE	tailoring INST
monitor considerations ADMIN	MACLIBS ADGCMS, APGDE
RDEVICE macro, coding considerations	CMSLIB ADGCMS
for 3704/3705/3725 <b>PLNGDE</b>	CMSLIB MACLIB ADRCMS
tools INST	DMSSP ADGCMS
generation option	DMSSP MACLIB ADRCMS
AFFINITY INTRO	DOSMACRO ADGCMS
virtual=real INTRO	OSMACRO ADGCMS
hold status	OSMACRO MACLIB ADRCMS
putting spool files in it SYSCMD	OSMACRO1 ADGCMS
releasing spool files from it SYSCMD	OSMACRO1 MACLIB ADRCMS
increasing security ADMIN	OSVSAM ADGCMS
information, collect and analyze	TSOMAC ADGCMS
INDICATE command DIAG	message INTRO
LOCATE command DIAG	VM/SP HPO initialization <b>OPGDE</b>
MONITOR command DIAG	vs. CP command responses GENCMD,
integrity	SYSCMD
statement of SECUR	minidisk INST
	mixed mode foreground/background
dealing with problems in SECUR	performance of <b>ADMIN</b>
when changing command access ADMIN	<del>.</del>
integrity, maintaining	name table (DMKSNT) ADMIN, INST, PLNGDE
SQL/DS SECUR SYSTEM (270 architecture relation with	
SYSTEM/370 architecture, relation with	creating your own version PLNGDE
SECUR	function INST
VM Batch Facility SECUR	loading INST
VMBACKUP-MS SECUR	NAMELANG macro PLNGDE
your responsibilities SECUR	NAMENCP macro PLNGDE
interfaces SPIREF	NAMESYS macro PLNGDE
initialization, VM/SP HPO OPGDE	preparing PLNGDE
level communication directory CONGREF,	tailoring INST
CONPAO	using SNTMAP EXEC to verify changes
load, displaying GENCMD	INST
loading by name GENCMD	DMKSNT ADMIN

national language security measures ADMIN defining when building system INST unauthorized access to system resources definition INST ADMIN save area ADGCMS installing new INST operand of NUCXLOAD command DMSKEY macro ADRCMS **CMSREF** service, CP APGDE operation See also Collection Resource Management installation requirements **OPGDE** System Service (\*CRM) program requirements OPGDE See also Identify System Service (\*IDENT) operator collection resource management SFPROG action on CP errors SYSMSG DASD block I/O SFPROG alerted to error conditions OPGDE error logging SFPROG identify SFPROG batch virtual machine INTRO communication with VM/SP INTRO **IUCV** communication **SFPROG** console usage INTRO message SFPROG controlling performance options INTRO message all SFPROG dedicating devices INTRO signal SFPROG duties SECUR SNA virtual console communication functions performed by **OPGDE SFPROG** privileged command INTRO spool SFPROG sending messages to INTRO shutdown use of CMS commands INTRO monitor considerations ADMIN state indicators TERMREF view of spooling INTRO VM/IPF panel INTRO support, virtual machines PLNGDE trace bit SPIREF option of CONVERT COMMANDS command trace data **CMSREF** query external trace setting CONPAO of EXECDROP command CMSREF to diagnose TSAF problems DIAG of EXECLOAD command CMSREF trapping entries (CPTRAP) CONPAO of EXECMAP command CMSREF viewing CPTRAP data CONPAO of GENMOD command CMSREF trace data, external tracing parameters AVS CONPAO checklist for reporting problem DIAG TSAF CONPAO performance trace data, internal tracing for mixed mode foreground/background **AVS CONPAO** systems ADMIN structure, SNA SFPROG measurement ADMIN symbol table, reading SFPROG profile CMSUG termination OPGDE programmer SYSTEM command CMSUG, DIAG, described GENCMD, OPGDE, SYSCMD **GENCMD** considerations PLNGDE described GENCMD considerations for paging ADMIN operands considerations, how to define 3088 support CLEAR ADMIN, GENCMD **PLNGDE** RESET GENCMD requesting status information SYSCMD RESTART GENCMD resource operator responses GENCMD described GENCMD, OPGDE, SYSCMD usage notes GENCMD SYSTEM LANGUAGE file SFPROG resources displaying use of GENCMD

Refer to the foldout page at the back of this book for a chart of abbreviations and their corresponding manuals.

SYSTEM NETID file CONPAO	Systems Application Architecture (SAA)
format INST	CMSMIG, CONPAO, INTRO
updating INST	interface definition table SAACOM
System Network Architecture (SNA)	overview SAACOM
See SNA (System Network Architecture)	product relationship SAACOM
SYSTEM operand	related publications SAACOM
of CHANGE command SYSCMD	supported environments SAACOM
of LOCK command SYSCMD	Systems Application Architecture Common
of ORDER command SYSCMD	Programming Interface (CPI) Communications
of PURGE command SYSCMD	INTRO
of QUERY command SYSCMD	Systems Network Architecture (SNA)
•	· · · · · · · · · · · · · · · · · · ·
of SET command SYSCMD	See SNA (System Network Architecture)
of SPOOL command GENCMD	System/3X SAACOM
of SPTAPE command SYSCMD	System/370
of TRANSFER command SYSCMD	definition ADMIN, SYSMSG
of UNLOCK command SYSCMD	System/370 architecture ADRCMS, SECUR
of VMDUMP command GENCMD	addressing, comparison to 370-XA
System Product Editor (XEDIT) APGDE,	ADGCMS, CMSMIG
SYSMSG	assembler instructions
See also XEDIT	AMODE pseudo-op ADGCMS,
considerations for migrating to	CMSMIG
full-screen CMS CMSUG	RMODE pseudo-op ADGCMS,
description INTRO	CMSMIG
edit mode APGDE	assembler instructions, comparison to
example, of using CMSUG	370-XA ADGCMS, CMSMIG
EXECs APGDE	assembler language I/O instructions
full-screen display CMSUG	ADGCMS
input mode APGDE	CMS I/O support
invoking CMSUG	DIAGNOSE X'A4' ADGCMS
line-mode on display terminals CMSUG	DIAGNOSE X'A8' ADGCMS
locking consideration for SFSAD	overview ADGCMS
macros APGDE	preferred interface I/O macros ADGCMS
tabs with APGDE	interrupt handling CMSMIG
using for program development INTRO	I/O considerations CMSMIG
using to display HELP files CMSUG	PSWs, comparison to 370-XA ADGCMS,
publications TERMREF	CMSMIG
System Product Interpreter APGDE, CMSLOT,	System/370 compatibility
INTRO, XEDITUG	conversion checklist
and ISPF APGDE	BLIP processing CMSMIG
basic description CMSUG	data areas CMSMIG
error codes CMSREF	DEBUG command CMSMIG
REXX language, interpreted by CMSUG	ENABLE macro CMSMIG
running CMSUG	four-digit device addresses CMSMIG
sample EXECs CMSUG	FREELOWE CMSMIG
writing EXECs for the CMSUG	GETMAIN free storage CMSMIG
system residence (SYSRES) volume INST	MAINHIGH CMSMIG
System Resources Management SYSCMD	NUCEXT function CMSMIG
SYSTEM RESTART command DIAG	NUCXDROP command CMSMIG
SYSTEM SEGID file ADMIN, SFPROG	NUCXLOAD command CMSMIG
system spool information, DIAGNOSE	NUCXMAP command CMSMIG
code X'D8' SFPROG	OS/MVS simulation CMSMIG
systemname operand	overlay structures CMSMIG
of IPL command GENCMD	QUERY BLIP command CMSMIG
of SAVESYS command SYSCMD	QUERY DISK command CMSMIG
	QUERY SEARCH command CMSMIG

reassembling existing programs **CMSMIG** SET BLIP command CMSMIG SET STORECLR command CMSMIG STRINIT macro CMSMIG SUBCOM function CMSMIG definition of CMSMIG general considerations CMSMIG System/370 Extended (hardware) special feature **GENCMD** SYSTEM = operandHNDEXT macro ADRCMS HNDIO macro ADRCMS HNDSVC macro ADRCMS NUCEXT SET ADRCMS SEGMENT macro ADRCMS SUBCOM SET ADRCMS SUBPOOL CREATE ADRCMS SYSTERM option of ASSEMBLE command CMSREF SYSTYPE operand of SYSRES macro PLNGDE SYSUTx file type CMSUG SYSUT1 file type CMSUG SYSUT2 file type CMSUG SYSUT3 file type CMSUG SYSUT4 file type CMSUG SYSVIRT operand of DEFINE command SYSCMD of QUERY command SYSCMD SYSVOL operand of NAMENCP macro PLNGDE of NAME3800 macro PLNGDE of SYSRES macro PLNGDE SYSWRM operand of SYSRES macro PLNGDE

SYSXSTOR macro ADMIN coding considerations PLNGDE error messages PLNGDE examples PLNGDE format PLNGDE MNOTEs PLNGDE operands SWSIZE PLNGDE TYPE PLNGDE Paging Storage ADMIN use with Paging Storage ADMIN use with DDR ADMIN when to code instead of SYSPAG macro PLNGDE SYSxxx option of ASSGN command CMSREF of DLBL command CMSREF of LISTIO command CMSREF SYSxxx (programmer logical units) programmer logical units, assigning **ADGCMS** SYS00x file type CMSUG SYS001 file type CMSUG SYS002 file type CMSUG SYS003 file type CMSUG SYS004 file type CMSUG SYS005 file type CMSUG SYS006 file type CMSUG SYS1.LOGREC data set MVS error recording RGOS S370E ON operand of SET command RGOS S370E operand of QUERY command GENCMD,

**SYSCMD** 

of SET command SYSCMD

<b>T</b>	table reference character (TRC) ADRCMS specified using PRINTL macro ADRCMS
T operand	TABLE subcommand
of DCP command SYSCMD	of PER command GENCMD
T-DISK	tables SPIUG
clearing SECUR	creation authority in SQL APGDE
defining PLNGDE	for translating TERMREF
defining in directory	option in ISPF APGDE
preferred machine assist PLNGDE	page and segment
tab characters	definition <b>ADMIN</b>
affected by SET IMAGE XEDIT	routing SFPROG
defined CMSLOT	views in SQL APGDE
how handled by FIND XEDIT	TABLINE option
how handled by FINDUP XEDIT	of EXTRACT XEDIT
how handled by NFIND XEDIT	
how handled by NFINDUP XEDIT	of QUERY XEDIT
in input line <b>XEDIT</b>	of SET XEDIT
in typewriter mode <b>XEDITUG</b>	of TRANSFER XEDIT
inserted by compress XEDIT	tabs APGDE
tab key PRIMER, TERMREF	displaying XEDITUG
in typewriter mode <b>XEDITUG</b>	example of XEDITUG
using PF key as XEDITUG	in typewriter mode XEDITUG
example of XEDITUG	setting CMSLOT, PRIMER, XEDITUG
tab line	in typewriter mode XEDITUG
defining display features XEDITUG	TABS option
displaying XEDITUG	of EXTRACT XEDIT
using SET TABLINE XEDIT	of QUERY CMSLOT, XEDIT
using TABL (prefix subcommand)	of SET CMSLOT, XEDIT
XEDIT	of TRANSFER XEDIT
example of <b>XEDITUG</b>	tabulating text output SPIUG
tab settings XEDITUG	tabulation APGDE
COBOL filetype APGDE	TACTIVE subcommand of IPCSSCAN
defining XEDIT	command
FORTRAN filetype APGDE	description IPCSREF
FREEFORT filetype APGDE	example output IPCSREF
in typewriter mode <b>XEDITUG</b>	format IPCSREF
used by EXPAND XEDIT	functional category IPCSREF
tabbing using PF key XEDITUG	messages IPCSREF
TABCHAR operand	operands IPCSREF
of TERMINAL command GENCMD	responses IPCSREF
TABKEY option	usage notes IPCSREF
of SET PAn XEDIT	TAG area DIAG
of SET PFn XEDIT	TAG command ADMIN, CMSUG, GENCMD,
TABL prefix subcommand XEDIT	OPGDE
Table Character Reference byte CMSREF	altering TAG information GENCMD
table input libraries	described GENCMD
ISPFILE APGDE	operands
ISPTLIB APGDE	DEV PRT/PCH/CONSOLE/vaddr
table, mode name, defining CONPAO	GENCMD
table output libraries	FILE spoolid GENCMD
ISPSLIB APGDE	QUERY DEV/FILE GENCMD
ISPTABL APGDE	tagtext GENCMD
and the second of the second o	responses GENCMD

transmitting files to remote location tape **GENCMD** assigning to logical units, in CMS/DOS usage notes **GENCMD CMSREF** use with SPOOL command GENCMD bypass label, description CMSUG checking and writing tape labels ADRCMS tag-text, variable described GENCMD, SYSCMD compacting output CMSUG configuration aid PLNGDE tags DCF INTRO considerations for CMS/DOS ADGCMS for lists PRIMER control functions in a names file CMSLOT definitions GML (Generalized Markup Language) MVS virtual machine RGOS VM under VM RGOS PRIMER description of CMSLOT VSE/SP virtual machine RGOS GML, types of density, when to specify CMSUG heading CMSLOT device highlighting CMSLOT monitoring missing interruptions list CMSLOT **SYSCMD** paragraph CMSLOT shared or nonshared VCU mode tagtext operand **PLNGDE** device, magnetic INTRO of TAG command GENCMD dumping spool files to SYSCMD tailoring a programmable operator routing table loading spool files from SYSCMD **SFPROG** device/model codes ADMIN CP directory INST end-of-volume exit ADRCMS CMS ADMIN restrictions ADRCMS privilege classes SECUR error, unrecoverable ADMIN the screen XEDITUG DMKBOX INST DCB address CMSUG DMKFCB INST directing control data backups to **DMKPIA INST SFSAD** FCBSECT address CMSUG DMKPIB INST in CMS CMSUG **DMKRIO INST DMKSNT INST** specifying for control data backups DMKSYS INST **SFSAD** DMKUCB INST using for backups SFSAD **DMKUCC INST** format, stand-alone dump DIAG **DMKUCS INST** formats SERV **DMSNGP INST** handling options, specifying CMSUG input ADGCMS printer font offset buffer INST printer forms control buffer INST I/O ADGCMS printer universal character set INST labels product parameter file INST by CMS commands CMSUG sample files INST EOT CMSUG system definition files INST **EOV CMSUG** VMUSERS DIRECT INST in CMS CMSUG 5664173H \$PPF INST in CMS/DOS CMSUG taking data from a program stack SPIUG in FILEDEF command CMSREF TALLY EXEC SFSAD in OS simulation CMSUG LABELDEF command CMSUG

Refer to the foldout page at the back of this book for a chart of abbreviations and their corresponding manuals. limitations CMSUG

MOVEFILE command CMSUG	TAPESL macro
processing CMSUG	BLKCNT = operand ADRCMS
processing, IBM standard CMSUG	ERROR = operand ADRCMS
specifying descriptive information	LABID = operand ADRCMS
CMSREF	macro, description CMSUG
under CMS/DOS CMSUG	MODE = operand ADRCMS
under CMS/DOS, DTFMT macro	SPACE = operand ADRCMS
CMSUG	TM = operand ADRCMS
under OS simulation CMSUG	used with RDTAPE, WRTAPE, and
under OS/VS simulation CMSUG	TAPECTL ADRCMS
national language feature tape INST	TAPIN option of AMSERV command
nonlabeled, description CMSUG	CMSREF
nonstandard label, description CMSUG	TAPn device type APGDE
optional handling CMSUG	TAPn option
output ADGCMS	of ASSGN command CMSREF
processing IBM standard HDR1 and EOF1	of FILEDEF command
labels ADRCMS	
	description CMSREF
reading ADGCMS	usage CMSREF
rewinding GENCMD	TAPOUT option of AMSERV command
special handling CMSUG	CMSREF
Starter System Tape INST	TAPPDS command CMSUG
support for CMS	copying files from tapes CMSUG
GIVE command PLNGDE	creating CMS files from tapes created by
used for AMSERV input and output	CMSUG
ADGCMS, CMSREF	target
entering ddnames CMSREF	affected by SET IMAGE XEDIT
in CMS/DOS CMSREF	as absolute line number XEDIT,
virtual addresses CMSUG	XEDITUG
volume serial number, 3480 SFPROG	example of <b>XEDITUG</b>
volume switching in CMS ADGCMS	as complex string expression XEDIT,
VM/SP HPO Product Tape INST	XEDITUG
VM/SP Product Tape INST	example of XEDITUG
TAPE command	as line name XEDIT, XEDITUG
control functions	example of <b>XEDITUG</b>
creating CMS files from tapes created by	as operand of LOCATE XEDITUG
CMSUG	as relative displacement XEDIT,
sample terminal display CMSUG	XEDITUG
using CMSUG	example of <b>XEDITUG</b>
TAPE operand	as simple string expression XEDITUG
of MONITOR command SYSCMD	example of <b>XEDITUG</b>
TAPE raddr operand	format of <b>XEDITUG</b>
of MONITOR command SYSCMD	as string expression XEDIT
TAPECTL macro	as subcommand operand XEDITUG
BLKBUFF = operand ADRCMS	example of <b>XEDITUG</b>
ERROR = operand ADRCMS	definition of XEDITUG
MODE = operand ADRCMS	description of XEDIT
positioning tape ADRCMS	entered alone XEDITUG
used in tape label process CMSUG	entered before subcommand XEDITUG
TAPEMAC command CMSUG	how to express XEDITUG
TAPES operand	ignoring characters within XEDIT
of QUERY command SYSCMD	IUCV SECUR
of QUERY VIRTUAL command	location information CONPAO
GENCMD	LU name CONPAO
	for global/local resources CONPAO
	for outbound connections CONPAO

for private resources CONPAO in APPCPASS directory statement CONPAO in communications directory entry CONPAO of connection request, identifying **CONPAO** search defining columns for XEDIT ignoring case in XEDIT respecting case in XEDIT with DBCS strings XEDIT specifying in hexadecimal XEDIT types of XEDITUG **UPPERCAS XEDIT** use in ALTER XEDIT use in CHANGE XEDIT use in COMPRESS XEDIT use in COPY XEDIT use in COUNT XEDIT use in DELETE XEDIT use in DUPLICAT XEDIT use in EXPAND XEDIT use in HEXTYPE XEDIT use in LOCATE XEDIT **CMSREF** use in LOWERCAS XEDIT use in MOVE XEDIT use in PUT XEDIT, XEDITUG use in PUTD XEDIT use in SET RANGE XEDIT use in SHIFT XEDIT use in SORT XEDIT use in STACK XEDIT use in subcommands XEDITUG use in TYPE XEDIT use with DBCS strings XEDIT used to change current line XEDITUG used to move line pointer XEDITUG example of XEDITUG TARGET option of EXTRACT XEDIT of QUERY XEDIT **SPIREF** of TRANSFER XEDIT task active DIAG block (TBK) DIAG storage DIAG subpools DIAG PRIMER

**HELP files XEDIT** running DIAG spool operator INTRO waiting **DIAG** TASK menus CMSUG, XEDIT RELATED XEDIT TASK option of HELP XEDIT TASKEXIT macro GCSREF clr parameter GCSREF description GCSREF ep parameter GCSREF error parameter GCSREF execute format GCSREF list address format GCSREF list format GCSREF mf parameter GCSREF name parameter GCSREF set parameter GCSREF uword parameter GCSREF taskid operand of TACTIVE subcommand IPCSREF of TLOADL subcommand IPCSREF of TSAB subcommand IPCSREF TASKS operand of HELP command TBK (task block) DIAG TBL operand of QUERY command GENCMD, SYSCMD TCLOSE command in tape label processing CMSUG TCP/IP INTRO TCU (Transmission Control Units) configuration aid PLNGDE TD option of DSERV command CMSREF TDISK space shared or nonshared VCU mode **PLNGDE** TDSK operand of QUERY command SYSCMD TE (Trace End) Immediate command CMSUG, team, security implementation SECUR TELE operand of SPECIAL directory control statement PLNGDE TELL command APGDE, CMSLOT,

Refer to the foldout page at the back of this book for a chart of abbreviations and their corresponding manuals.

CMS user INTRO

ID table DIAG

TEMP ddname SFSAD

TEMPLATE file type usage in CMS	term-addr, variable
CMSUG	described GENCMD, SYSCMD
template files for CSL ADGCMS	terminal INTRO, TERMREF
templates, parsing	characteristics CMSUG
general rules SPIREF	connecting remote GENCMD
in ARG instruction SPIREF	connections TERMREF
in PARSE instruction SPIREF	console TERMREF
in PULL instruction SPIREF	console locks SECUR
temporary	control of attention handling GENCMD
command destination change SPIREF disk space	controlling input/output processing GENCMD
clearing GENCMD	controlling line length GENCMD
formatting GENCMD	definition ADMIN, SYSMSG
disks	definitions, MVS virtual machine
defining GENCMD	dedicated RGOS
detaching GENCMD	non-dedicated RGOS
formatting using DSF ADGCMS	definitions, VSE/SP virtual machine
releasing GENCMD	dedicated RGOS
using for VSAM data sets ADGCMS	nondedicated RGOS
files	disconnecting CMSUG
used in FILESERV MINIDISK	disconnecting from virtual machine
processing SFSAD	GENCMD
used in FILESERV REGENERATE	display TERMREF
processing SFSAD	See also display, terminals
used when backing up control data SFSAD	used in full screen mode XEDIT
used while restoring control data SFSAD	used in tun screen mode XEDIT used in line mode XEDIT
virtual disks GENCMD	
	finding width with LINESIZE SPIREF
ten, powers of SPIREF TEOVEXIT macro	for VM/SP HPO control <b>OPGDE</b>
	input procedures OPGDE
CLR operand ADRCMS	input buffer APGDE, INTRO, SPIUG
DDNAME = operand ADRCMS	I/O
ERROR = operand ADRCMS	See also console, I/O
EXIT = operand ADRCMS	waiting to complete ADRCMS
handling a CMS tape end-of-volume exit  ADRCMS	keyboards TERMREF
	mode, setting CMSUG
RETINFO = operand ADRCMS	output DIAG
SET operand ADRCMS	byte alignment DIAG
terabyte, definition of SFSAD	controlling CMSUG
term SPIUG	reading from with PULL SPIREF
TERM CONMODE 3270 RGOS	requesting information about CMSUG
TERM operand	sample sessions for DOS programmers
of DOSLIB command CMSREF	ADGCMS
of DOSLKED command CMSREF	sample sessions for OS programmers
of DSERV command CMSREF	ADGCMS
of LKED command APGDE, CMSREF	sample sessions using access method
of LOADLIB command CMSREF	services ADGCMS
of MACLIB command CMSREF	session GENCMD
of MACLIB command MAP function APGDE	commands used to control, summary of GENCMD, OPGDE, SYSCMD
of OPTION command CMSREF	shared or nonshared VCU mode
of PSERV command CMSREF	PLNGDE
of SPOOL command GENCMD	status APGDE
of TERMINAL macro PLNGDE	supported by VM/SP TERMREF
of TXTLIB command MAP function	testing GENCMD
APGDE	

types TERMREF TERMINAL macro typewriter-like TERMREF coding PLNGDE using TERMREF control unit aqnd device addressing using PRIMER **PLNGDE** writing to with SAY SPIREF effect on addressing bisync terminals TERMINAL BREAKIN GUESTCTL and printers PLNGDE for VSE/SP virtual machine RGOS examples PLNGDE TERMINAL CHARDEL command format PLNGDE **CMSLOT** remote 3270 addressing PLNGDE TERMINAL command CMSUG, GENCMD, TERMINAL macro **RGOS, TERMREF** FEATURE PLNGDE BREAKIN GUESTCTL SFPROG MODEL operand PLNGDE BRKKEY SFPROG SELECT PLNGDE CONMODE 3270 SFPROG TERM PLNGDE described GENCMD TERMINAL operand determining current values GENCMD of ASSEMBLE command CMSREF example of use INTRO of ASSGN command CMSREF operands of EXTRACT XEDIT APL GENCMD of FILEDEF command CMSREF ASCIITBL GENCMD of PER command GENCMD ATTN GENCMD of QUERY command GENCMD, **BREAKIN GENCMD XEDIT** BRKKEY GENCMD of SET XEDIT CHARDEL GENCMD of TRACE command GENCMD CNTL GENCMD of TRANSFER XEDIT CONMODE GENCMD TERMINAL SCROLL command CMSLOT ESCAPE GENCMD TERMINAL TEXT command TERMREF HILIGHT GENCMD TERMINATE ALL, logical device support facility function SFPROG LINEDEL GENCMD LINEND GENCMD TERMINATE command of DMS/CMS LINESIZE GENCMD **APGDE** MODE GENCMD TERMINATE, logical device support facility function SFPROG PROMPT GENCMD SCRNSAVE GENCMD Terminate\_Resource\_Manager (XCTRRM) SCROLL GENCMD routine CONGREF TABCHAR GENCMD terminating TEXT GENCMD See also stopping TYPE GENCMD **AVS CONPAO** responses GENCMD console input/output GENCMD SCRNSAVE OFF SFPROG editing session CMSUG SCRNSAVE ON SFPROG using CANCEL XEDIT usage notes GENCMD using FILE XEDIT used to set logical line editing symbols using QUIT XEDIT GENCMD, SYSCMD execution of a program CMSUG TERMINAL device type APGDE EXEC 2 file EXEC2 TERMINAL LINESIZE command PER DIAG **CMSLOT** processing of files GENCMD

PVM session safely SECUR

Refer to the foldout page at the back of this book for a chart of abbreviations and their corresponding manuals.

terminal session CMSUG	TESTCB (VSAM) GCSREF
the programmable operator facility	acb parameter GCSREF
SFPROG	aixflag parameter GCSREF
TSAF CONPAO	aixpc parameter GCSREF
termination	area parameter GCSREF
abnormal	arealen parameter GCSREF
See also abend (abnormal termination)	arg parameter GCSREF
AVS abend codes SYSMSG	atrb parameter GCSREF
CMS abend codes SYSMSG	description GCSREF
CP abend codes SYSMSG	ecb parameter GCSREF
GCS abend codes SYSMSG	eodad parameter GCSREF
TSAF abend codes SYSMSG	eret parameter GCSREF
accounting records CONPAO, SFSAD	exilen parameter GCSREF
of server	exist parameter GCSREF
abnormal (CMS abend) SRPI	fdbk parameter GCSREF
and explicit unload (NUCXDROP)	ftncd parameter GCSREF
SRPI	io parameter GCSREF
system OPGDE	jrnad parameter GCSREF
virtual machine <b>OPGDE</b>	keylen parameter GCSREF
VMSAVE option ADMIN	lerad parameter GCSREF
terminology CONPAO	macrf parameter GCSREF
CMS/DOS ADGCMS	nxtrpl parameter GCSREF
of IUCV macro parameters SFPROG	object parameter GCSREF
OS/MVS ADGCMS	opted parameter GCSREF
TERMIO command APGDE	· -
	rba parameter GCSREF
terms DIAG, GCSREF, IPCSREF	reclen parameter GCSREF
See also SNA (System Network	rpl parameter GCSREF
Architecture), terms	rpllen parameter GCSREF
See also VM connectivity, terms	synad parameter GCSREF
and data SPIREF	test a certain field in an ACB GCSREF
test complete function	test a certain field in an exit list GCSREF
See TESTCMPL function (IUCV macro)	test a certain field in an RPL GCSREF
TEST COMPLETION function of IUCV	TESTCMPL function of IUCV CONGREF
SFPROG	completion CONGREF
parameter list format SFPROG	condition codes CONGREF
trace table entry format SFPROG	parameter descriptions CONGREF
using SFPROG	parameter list CONGREF
test I/0	program exceptions CONGREF
monitored in CP internal trace	return code CONGREF
table SYSCMD	TESTCOB command APGDE
TEST keyword of ISPSTART	subcommands
command APGDE	AT APGDE
test message function	CALL APGDE
See TESTMSG function (IUCV macro)	DUMP APGDE
TEST MESSAGE function of IUCV, using	END APGDE
SFPROG	GO APGDE
trace table entry format SFPROG	IF APGDE
TEST option of ASSEMBLE command	LIST APGDE
CMSREF	LISTBRKS APGDE
TEST parameter APGDE	NEXT APGDE
TESTCB macro instruction GCSREF	OFF APGDE
TESTCB operand notation GCSREF	PERFORM APGDE

TEXT assembler output ddname CMSREF RUN APGDE SET APGDE text deck example SERV TRACE APGDE general description SERV WHEN APGDE TESTFORT command APGDE from GENIMAGE command ADMIN subcommands AT APGDE shell END APGDE example SERV ERROR APGDE general description SERV TEXT file type CMSLOT, PRIMER FIXUP APGDE GO APGDE usage in CMS CMSUG IF APGDE TEXT files APGDE, INTRO LIST APGDE adding OS/MVS linkage editor control LISTBREAKS APGDE statements ADGCMS LISTFREQ APGDE automatic loading CMSREF NEXT APGDE cards read in by loader CMSREF OFF APGDE COBOL APGDE created by assembler language processors RUN APGDE SET APGDE **CMSUG** creating with assembler CMSREF SOURCE APGDE TRACE APGDE defined INTRO WHEN APGDE FORTRAN APGDE WHERE APGDE link-editing in CMS/DOS ADGCMS, testing **CMSREF** controlling CCW GENCMD linking in storage CMSREF programs **GENCMD** loading and executing ADGCMS determining program entry points terminal **GENCMD** virtual systems IPCSREF **ADGCMS** TESTMSG function of IUCV CONGREF determining where files get loaded completion CONGREF **ADGCMS** condition codes CONGREF loader control statements ADGCMS parameter list CONGREF resolving external references ADGCMS program exceptions CONGREF starting ADGCMS TESTX keyword of ISPSTART command TEXT file libraries ADGCMS **APGDE** loading into storage for execution CMSREF Test\_Request\_to\_Send\_Received (CMTRTS) loading into virtual storage CMSREF routine CONGREF, SAACOM PRELOAD utility program SERV TEVC (trace entry verification code) DIAG reformatted by PRELOAD utility SERV resolving unresolved references with LOAD control of translation tables GENCMD command CMSREF format of CP commands GENCMD, setting starting point for execution CMSREF **SYSCMD** TEXT file libraries ADGCMS TEXT libraries APGDE formatting See also formatting See TXTLIB See also word adding members to APGDE expressions SPIUG deleting members of APGDE feature for 3270 terminals CMSUG, replacing members of APGDE **TERMREF** TEXT keys field APGDE allowing the use of XEDIT processing INTRO text modules with ISPF APGDE

Refer to the foldout page at the back of this book for a chart of abbreviations and their corresponding manuals.

TEXT operand	time
of EXTRACT XEDIT	allocation, processor INTRO
of QUERY XEDIT	and storage management, virtual machine
of SEND command GENCMD	See Diagnosis Reference
of SET command SYSCMD, XEDIT	determining length of a terminal session
of TERMINAL command GENCMD	GENCMD
of TRANSFER XEDIT	displayed PRIMER
text preparation program product	intervals
DCF INTRO	changing SYSCMD
PC/VM Bond INTRO	controlling in monitoring devices
PROFS INTRO	SYSCMD
textmask in DMS/CMS APGDE	of day displayed CMSLOT
TEXTSYM statement SFPROG	sharing ADMIN, SYSMSG
See also programmable operator facility	slice ADMIN, INTRO, SYSMSG
TEXT = operand	dispatching, duration SYSCMD
CMSSTACK macro ADRCMS	supported by the interval timer <b>OPGDE</b>
SCAN macro ADRCMS	stamp
TFB-512 devices	date format IPCSREF
defining fixed-block mode GENCMD	examples of individual time stamp values
TFB-512 operand	IPCSREF
of DEFINE command GENCMD	examples of multiple time stamp values
The Information Facility (TIF) GIM	on a single command IPCSREF
theft, stealing PSWs CMSMIG	examples of output of time stamp trace
THEN	entries IPCSREF
as free standing clause SPIREF	functional description IPCSREF
following IF clause SPIREF	general format IPCSREF
following WHEN clause SPIREF	time format IPCSREF
THEN keyword	trace entries, examples of output IPCSREF
NOP instruction SPIUG	values, individual examples IPCSREF
of IF instruction SPIUG	values, multiple examples on a single
of SELECT instruction SPIUG	command IPCSREF
Thexloc operand of DISPLAY subcommand	swap queue controls SYSCMD
IPCSREF	working set pages
Thexloc1 operand	held in interactive buffer SYSCMD
of DCP command SYSCMD	zone adjustment
of DMCP command SYSCMD	adjustment factor IPCSREF
Thexloc% operand of DISPLAY	description IPCSREF
subcommand IPCSREF	input requirements IPCSREF
third-level storage	PLIST format IPCSREF
definition ADMIN	TIME control statement for FILEPOOL
not dumped SFPROG	FORMAT AUDIT SFSAD
thrashing CONPAO	TIME field in FILEPOOL FORMAT
threshold for space warning, setting SFSAD	AUDIT output SFSAD
threshold, SFS filespace	TIME function SPIREF
DMSQLIMU (SFS Query Limits - Single	TIME macro GCSREF
User) ADRCMS	bin parameter GCSREF
FSCLOSE macro ADRCMS	dec parameter GCSREF
FSREAD macro ADRCMS	description GCSREF
FSWRITE macro ADRCMS	TIME operand
throwing away a file PRIMER	of MONITOR command SYSCMD
	of QUERY command GENCMD

TIME subcommand of IPCSSCAN command functional category IPCSREF description IPCSREF messages IPCSREF example output IPCSREF operands IPCSREF format IPCSREF responses IPCSREF functional category IPCSREF usage notes IPCSREF messages IPCSREF TO option of GENMOD command CMSREF operands IPCSREF TO h2:m2 operand responses IPCSREF of MONITOR command SYSCMD usage notes IPCSREF TO operand time-of-day (TOD) clock IPCSREF of SPOOL command CMSUG, GENCMD of TRANSFER command GENCMD See also Diagnosis Reference accounting interface SFPROG of VMDUMP command GENCMD clock comparator TO parameter See Diagnosis Reference DMSGRANT (SFS Grant Authority) obtaining current value OPGDE **ADRCMS** processor hardware OPGDE TO phrase of DO instruction SPIREF setting OPGDE TO SYSTEM operand time-sharing option (TSO) of ATTACH command SYSCMD timeout TERMREF TO userid operand timer of ATTACH command SYSCMD controlling virtual GENCMD of GIVE command SYSCMD interval timer ADMIN of MONITOR command SYSCMD of NETWORK command SYSCMD See also Diagnosis Reference pseudo SFPROG of TRANSFER command SYSCMD TO \* operand TIMER operand of DEFINE command GENCMD of ATTACH command SYSCMD of SET command GENCMD of TRANSFER command SYSCMD TIMESPAN subcommand of IPCSPRT TOD (time-of-day) clock IPCSREF See also Diagnosis Reference command description IPCSREF accounting interface SFPROG example output IPCSREF clock comparator format IPCSREF See Diagnosis Reference functional category IPCSREF obtaining current value **OPGDE** messages IPCSREF processor hardware OPGDE operands IPCSREF setting **OPGDE** response IPCSREF **TODACCNT** function usage notes IPCSREF clock accounting interface ADRCMS ENABLE subfunction ADRCMS timespec format of time stamp IPCSREF timestamp operand of TIME subcommand issues DIAGNOSE code X'70' **ADRCMS IPCSREF** QUERY subfunction ADRCMS timing a missing interrupt ADMIN title line usage ADRCMS in full-screen CMS CMSUG todclock specification of time stamp of the CMS window PRIMER **IPCSREF** TLAN (token ring LAN) IPCSREF TOF option TLOADL subcommand of IPCSSCAN of EXTRACT XEDIT of QUERY XEDIT command description IPCSREF of TRANSFER XEDIT example output IPCSREF TOFB action routine SFPROG

Refer to the foldout page at the back of this book for a chart of abbreviations and their corresponding manuals.

format IPCSREF

TOFEOF option	VMFLKED EXEC SERV
of EXTRACT XEDIT	VMFLOAD MODULE SERV
of QUERY XEDIT	VMFMAC EXEC SERV
of SET XEDIT	VMFMERGE EXEC SERV
of TRANSFER XEDIT	VMFNLS EXEC SERV
toggling between pf keys CMSUG	VMFOVER EXEC SERV
token ring LAN (TLAN) IPCSREF	VMFPLC2 MODULE SERV
Token Ring links CONPAO	VMFREC EXEC SERV
tokenized parameter list (PLIST) ADGCMS,	VMFREMOV EXEC SERV
CMSMIG, SRPI	VMFSETUP EXEC SERV
building ADRCMS	VMFTXT EXEC SERV
example EXEC2	VMFZAP EXEC SERV
tokenized parameters APGDE	VRSIZE MODULE SERV
token, access security CONPAO	VSAMGEN EXEC INST
tokens SPIREF	VSEVSAM EXEC INST
TOL option	ZAP MODULE SERV
of EXTRACT XEDIT	ZAPTEXT EXEC SERV
of QUERY XEDIT	TOP command CMSLOT, PRIMER
TOLABEL option of COPYFILE command	of DMS/CMS APGDE
CMSREF	top directory INTRO
toleration, 370-XA	abbreviated form CMSUG
conversion checklist	considerations for SFSAD
assembler instructions CMSMIG	creating SFSAD
CMS/DOS interface CMSMIG	definition CMSUG
ENABLE macro CMSMIG	establishing as file mode A SFSAD
I/O instructions CMSMIG	moving minidisk contents to SFSAD
PSWs CMSMIG	name CMSUG
VSAM interface CMSMIG	
definition of CMSMIG	name of CMSLOT, PRIMER period to refer to CMSLOT, PRIMER
general considerations CMSMIG	referring to CMSUG
•	
tools, installation and system generation INST	what it can contain CMSLOT, PRIMER top of file
ASMGEND EXEC SERV	
ASMIGEND EAEC SERV ASM3705 command INST	line, controlling display of XEDIT
CMSGEND EXEC SERV	moving current line to CMSLOT
,	moving current line toward CMSLOT
DCSSGEN command INST DIRECGEN EXEC INST	moving line pointer toward
	using target XEDIT
DOSGEN EXEC INST GENSERVE EXEC SERV	using UP XEDIT
GENTSAF EXEC SERV	top of range XEDIT
GEN3705 command INST	line, controlling display of XEDIT
INSTFPP EXEC INST	TOP subcommand of IPCSSCAN
ITASK EXEC INST	command
PASSMOD EXEC INST	description IPCSREF
	example output IPCSREF format IPCSREF
PRELOAD MODULE SERV	
SAMGEN EXEC INST	functional category IPCSREF
SAVENCP command INST	messages IPCSREF
SPLOAD EXEC INST	response IPCSREF
UTILITY EXEC INST, SERV	usage notes IPCSREF
VMFAPPLY EXEC SERV	TOP subcommand of XEDIT command
VMFASM EXEC SERV	APGDE, XEDIT, XEDITUG
VMFBLD EXEC INST, SERV	in typewriter mode XEDITUG
VMFDOS EXEC INST	practice exercise using XEDITUG
VMFHASM EXEC SERV	TOVM action routine SFPROG

Trace End (TE) immediate command SPIREF tpn tag in communications directory CONGREF trace entries TPN tag setting for file pools SFSAD AVS DIAG TPN (transaction program name) CONPAO TSAF DIAG X'3C' DIAG description of CONPAO X'3D' DIAG for global/local resource CONPAO X'3F' DIAG for outbound connection CONPAO trace entry formatter interface, IPCS IPCSREF for private resource CONPAO in communications directory entry trace entry verification code (TEVC) DIAG **CONPAO** trace events in virtual machine TP name characteristic ADSTOP command DIAG **BEGIN** command **DIAG** possible values SAACOM set SAACOM CP PER command DIAG TRACCURR (current CP internal trace table branch traceback table DIAG entry) DIAG CMD option DIAG TRACE DIAG GUESTR option DIAG errors SPIUG GUESTV option DIAG intermediate results SPIUG multiple address stops DIAG PER COUNT subcommand DIAG normal SPIUG results SPIUG selectivity DIAG turning off **GENCMD** storage alteration tracing DIAG trace bit, external SPIREF suspending DIAG TRACE command APGDE, CMSUG, terminating DIAG DIAG, GENCMD, IPCSREF tracing interrupts DIAG described GENCMD, INTRO CP TRACE command DIAG operands controlling a CP trace DIAG ALL GENCMD suspending tracing DIAG **BOTH GENCMD** resume execution DIAG **BRANCH GENCMD** stopping execution DIAG **CCW GENCMD** SVCTRACE command DIAG CSW GENCMD trace execution DIAG trace formatter parameter list IPCSREF END GENCMD EXTERNAL GENCMD TRACE function SPIREF INSTRUCT GENCMD TRACE instruction SPIREF, SPIUG I/O GENCMD See also interactive debug NORUN GENCMD TRACE keyword of ITSPSTART command OFF GENCMD **APGDE** PRINTER GENCMD trace level pairs SFSAD PRIV GENCMD TRACE output IPCSREF PROGRAM GENCMD closing **GENCMD** RUN GENCMD trace output format IPCSREF SIO GENCMD TRACE setting SNS GENCMD altering with TRACE function SVC GENCMD SPIREF TERMINAL GENCMD altering with TRACE instruction **SPIREF** protected shared page ADMIN responses GENCMD querying SPIREF segment protection ADMIN testing nonshared segments ADMIN

Refer to the foldout page at the back of this book for a chart of abbreviations and their corresponding manuals.

usage notes GENCMD

Trace Start (TS) immediate command	SNA tracing tools <b>DIAG</b>
SPIREF	TRACE DIAG
TRACE subcommand DIAG	traces option in ISPF APGDE
TRACE subcommand of IPCSSCAN command	traceset-name operand
description IPCSREF	of QUERY command SYSCMD
error detection IPCSREF	TRACEX keyword of ISPSTART
example output IPCSREF	command APGDE
FORMAT CP display IPCSREF	tracing EXEC2
FORMAT TSAF and AVS display	action saved during subroutine calls
IPCSREF	SPIREF
FORMAT X'3C' Data Type Trace Entry	altering DIAG
Display IPCSREF	branches GENCMD
FORMAT X'3C' I/O Type Trace	by interactive debug SPIREF
Entry Display IPCSREF	capabilities in EXECs DIAG
HEX CP display IPCSREF	commands EXEC2
HEX TSAF and AVS display IPCSREF	commands that yield nonzero return codes
SFS display IPCSREF	EXEC2
format IPCSREF	data identifiers SPIREF
functional category IPCSREF	description of SPIUG
messages IPCSREF	ending <b>DIAG</b>
operands IPCSREF	events in virtual machines, commands
responses IPCSREF	used <b>DIAG</b>
usage notes IPCSREF	every executable statement EXEC2
TRACE subcommand	example SPIUG
of TESTCOB command APGDE	execution of programs SPIREF
of TESTCOB command AT GDE	external
trace table	AVS CONPAO
AVS internal, defining CONPAO	
CP internal <b>DIAG</b>	displaying setting <b>CONPAO</b> during AVS application initialization
GCS DIAG	CONPAO
problem determination RGOS	
	setting CONPAO TSAF CONPAO
recording facility RGOS trace table entries DIAG	external control of SPIREF
AVS DIAG	
_	external tracing GCSREF
collecting in the CPTRAP file DIAG CP DIAG	external, AVS DIAG
	external, TSAF DIAG
formats, IUCV SFPROG	file pool access SFSAD
formats, SNA CCS SFPROG	flags
IUCV field definitions SFPROG GCS DIAG	+ + + SPIREF
	*-* SPIREF
recording in the CPTRAP file DIAG	>C> SPIREF
TSAF DIAG	>F> SPIREF
trace tags SPIREF	>L> SPIREF
traceback, on syntax error SPIREF	>O> SPIREF
TRACEND (end of CP internal trace	>P> SPIREF
table) DIAG	>V> SPIREF
traces	>.> SPIREF
CP DIAG	>>> SPIREF
definition of DIAG	getting started, using CPTRAP DIAG
ETRACE DIAG	GT trap ID DIAG
ITRACE DIAG	starting DIAG
PER DIAG	input/output operations GENCMD
problems helped by <b>DIAG</b>	

internal AVS CONPAO displaying setting CONPAO during AVS application initialization CONPAO setting CONPAO internal, AVS DIAG interruptions GENCMD **IUCV DIAG IUCV** functions **SFPROG** looping programs SPIREF privileged instructions GENCMD program management DIAG real machine events **DIAG** server execution brief description of SFSAD ETRACE operator command SFSAD ITRACE operator command SFSAD start-up parameters related to SFSAD **SNA Console Communication Services SFPROG** status words **GENCMD** storage alteration using PER DIAG storage management DIAG **SVC** instructions task management DIAG tracing of GTRACE events GCSREF turning off DIAG Vector Facility instructions with two mnemonics GENCMD vector instructions ADMIN, APGDE virtual machine activity GENCMD track slot, definition ADMIN, SYSMSG tracking number per cylinder on disk devices **ADGCMS** TRACSTRT (start of CP internal trace table) DIAG trailing blanks ADRCMS removing using STRIP function SPIREF removing using WRTERM macro trailing fill characters, removing from records **CMSREF** trailing zeros SPIREF TRANS option of COPYFILE command **CMSREF** transaction program CONGREF, CONPAO, See also communication partner

See also resource manager See also user program transaction program name CONPAO description of CONPAO for global/local resource CONPAO for outbound connection CONPAO for private resource CONPAO in communications directory entry **CONPAO** 

TRANSFER command ADMIN, CMSUG described GENCMD, SYSCMD example of use INTRO moving reader files CMSUG operands

ALL GENCMD, SYSCMD CLASS GENCMD, SYSCMD **DEST SYSCMD** DEST dest GENCMD FORM SYSCMD FORM form GENCMD FROM GENCMD From ALL SYSCMD From userid SYSCMD PRINTER GENCMD, SYSCMD PUNCH GENCMD, SYSCMD READER GENCMD, SYSCMD spoolid GENCMD, SYSCMD SYSTEM SYSCMD TO GENCMD To userid SYSCMD To \* SYSCMD userid GENCMD, SYSCMD \* SYSCMD

responses GENCMD, SYSCMD summary OPGDE, SYSCMD syntax diagram, class D SYSCMD usage notes GENCMD, SYSCMD TRANSFER EXEC SFSAD TRANSFER subcommand XEDIT

transferring

control EXEC2 data between files CMSLOT using GET XEDIT using PUT XEDIT using PUTD XEDIT data files CMSUG to a specified queue GENCMD to a specified user GENCMD to another user GENCMD

Refer to the foldout page at the back of this book for a chart of abbreviations and their corresponding manuals.

See also resource

output with VM writer task RGOS	translation
ownership of file pool objects SFSAD	See also uppercase, translation
setting of editing options XEDIT	for commands CMSUG
transformation control parameters	list for COPYFILE command, description
(AVS tuning) CONPAO	CMSREF
transient area	synonyms for commands CMSUG
CMS commands that execute in	tables, system character set ADRCMS
CMSREF, CMSUG	generating a DSECT for using
creating modules to execute in CMSREF	TRANTBL ADRCMS
transient directories in VSE, displaying	with TRANSLATE function SPIREF
CMSREF	with UPPER instruction SPIREF
transient modules ADGCMS	Transmission Control Units (TCU)
transient routines	configuration aid PLNGDE
supported by CMS/DOS ADGCMS	transmission
\$\$BCLOSE ADGCMS	error rate CONPAO
\$\$BDUMP ADGCMS	of data SAACOM
\$\$BOPEN ADGCMS	transmitting
\$\$BOPENR ADGCMS	commands
\$\$BOPNLB ADGCMS	to CMS XEDIT
\$\$BOPNR2 ADGCMS	to CMS/CP automatically XEDIT
\$\$BOPNR3 ADGCMS	to CP XEDIT
\$\$BOSVLT ADGCMS	files and messages TERMREF
transition to native mode	high priority messages SYSCMD
requesting this for a virtual machine	spool files locally GENCMD
SYSCMD	spool files to remote locations GENCMD
transition, state SAACOM	transparent access to resources in the TSAF
TRANSLAT option	collection CMSMIG
of EXTRACT XEDIT	Transparent Services Access Facility (TSAF)
of QUERY XEDIT	See TSAF (Transparent Services Access
of SET XEDIT	Facility)
TRANSLATE function SPIREF, SPIUG	transporting VSAM data sets ADGCMS
translate tables TERMREF	TRANS = operand
description for 3800 printer OPGDE	SCAN macro ADRCMS
for 2741 APL TERMREF	TRANTBL macro
for 3270 APL TERMREF	expansion ADRCMS
for 3270 text feature TERMREF	generating a DSECT for system character
translated messages SYSMSG	set translation tables ADRCMS
translating	TRAPFILE command DIAG
between character, hexadecimal, decimal	description IPCSREF
SPIUG	format IPCSREF
character sets SPIUG	messages IPCSREF
characters XEDITUG	operands IPCSREF
to lowercase XEDIT	responses IPCSREF
to uppercase EXEC2, XEDIT	usage notes IPCSREF
to other characters EXEC2	trapid parameter of SELECT subcommand
command arguments ADRCMS	IPCSREF
examples of SPIUG	trapping
to uppercase SPIUG	improper use of CP free storage DIAG
TRANSLATE function SPIUG	of conditions
VERIFY function SPIUG	See SIGNAL instruction
output characters CMSUG	
virtual storage to EBCDIC DIAG	

traps	TSAB subcommand of IPCSSCAN
DATA-type <b>DIAG</b>	command
defining GT type DIAG	description IPCSREF
defining with CPTRAP DIAG	example output IPCSREF
GT type DIAG	format IPCSREF
trapset parameter of SELECT subcommand	functional category IPCSREF
IPCSREF	messages IPCSREF
TRC option of PRINT command CMSREF	operands IPCSREF
TRC (table reference character) ADRCMS	responses IPCSREF
specified using PRINTL macro ADRCMS	usage notes IPCSREF
tree CMSLOT, PRIMER	TSAF dump option of IPCSPRT command
TRPnnnnn CPTRAP file IPCSREF	IPCSREF
TRPnnnnn operand	TSAF Load Map (TSAF MAP) IPCSREF
of IPCSPRT IPCSREF	TSAF QUERY command DIAG
of IPCSSCAN IPCSREF	TSAF (Transparent Services Access Facility)
TRQBLOK unstack	GIM, INTRO, PLNGDE, SECUR
monitored in CP internal trace table	abend codes SYSMSG
SYSCMD	action for SYSMSG
TRQBLOK, VM SNA support SFPROG	codes SYSMSG
TRTCH	problem determination SYSMSG
of ASSGN command CMSREF	reason for SYSMSG
of FILEDEF command CMSREF	user action SYSMSG
TRUE expression SPIUG	abend messages DIAG
true run list algorithm OPGDE	abends DIAG
Trunc APGDE	answering CP through *CRM SFPROG
of commands CMSREF	collecting error information DIAG
option of COPYFILE command	collection CMSMIG
CMSREF	See also collection
TRUNC function SPIREF, SPIUG	making a file pool available to SFSAD
TRUNC option	removing a file pool from SFSAD
of COPYFILE command CMSUG	shown in scenario CONGREF
of EXTRACT XEDIT	communication
of QUERY XEDIT	with collection resource management system
of SET XEDIT	service SFPROG
of TRANSFER XEDIT	creating TSAF dump DIAG
truncating APGDE	creating TSAF IPCS map DIAG
limits EXEC2	debugging DIAG
lines EXEC2	definition ADMIN, SYSMSG
numbers SPIREF, SPIUG	description INTRO
trailing blanks CMSUG	diagnosing TSAF dump DIAG
records in CMS file CMSREF	directories created for SFSAD
trailing blanks from CMS file CMSREF	displaying trace records DIAG
truncation column PRIMER, XEDITUG	displaying TSAF dump information DIAG
defining XEDIT	dumps
Trunc = XEDITUG	creating DIAG
TRUNC=n, meaning of PRIMER	diagnosing <b>DIAG</b>
TS (Trace Start) Immediate command	displaying information DIAG
CMSUG, SPIREF	printing DIAG
,	processing DIAG
	using to diagnose <b>DIAG</b>

error messages SYSMSG	COMSRV option CONPAO
formatting trace records DIAG	CONCEAL option CONPAO
general description INST	ECMODE option CONPAO
GENTSAF EXEC SERV	entry CONPAO
internal trace table	IUCV ALLOW CONPAO
entry format DIAG	IUCV *CRM CONPAO
trailer record format DIAG	MAXCONN option CONPAO
loading code from product tape INST	REALTIMER option CONPAO
loadlist SERV	sample TSAF CONPAO
performance	global functions CONPAO
See performance	installation CONPAO
printing TSAF dump DIAG	links CONPAO
processing TSAF dump DIAG	preparing to use CONPAO
QUERY command DIAG	setting up CONPAO
requesting local directory information	shown in scenario CONGREF
through *CRM SFPROG	use in connections CONGREF
sample console log DIAG	VM/SP Release 5 SFPROG
SET ETRACE command DIAG	VM/SP Release 6 SFPROG
service	TSAFIPCS MAP DIAG, IPCSREF
See also problem diagnosis	TSAFVM PLNGDE
preparing to CONPAO	TSO (time-sharing option)
setting external tracing <b>DIAG</b>	using with MVS guest RGOS
Shared File System INTRO	TSOLIB library APGDE
support INTRO	TSOMAC MACLIB ADGCMS, APGDE
trace table entry format DIAG	TSO/E SAACOM
trace table trailer record format DIAG	TTABLE traps example DIAG
trapping trace table entries <b>DIAG</b>	TTIMER macro GCSREF
using dumps to diagnose DIAG	cancel parameter GCSREF
using the console log <b>DIAG</b>	description GCSREF
TSAF virtual machine	tuning parameters for AVS CONPAO
accounting record	tuning performance SFSAD
generating CONPAO	turning off an ADSTOP GENCMD
initialization CONPAO	turning off messages PRIMER
link CONPAO	turning on full-screen CMS PRIMER
session CONPAO	tutining on fun-screen CWIS TRIVIER
termination CONPAO	example flows SAACOM
ACCT option CONPAO	how to use this book SAACOM
commands CONPAO	terms and concepts SAACOM
ADD LINK CONPAO	TVECTIME APGDE
DELETE LINK CONPAO	two-channel switch
QUERY CONPAO	RDEVICE macro PLNGDE
RUNTSAF CONPAO	TWX terminals
STOP TSAF CONPAO	coding RDEVICE macro PLNGDE
defining links to CONPAO	TXT statement of TXTLIB member APGDE
description CONPAO	TXTLIB command APGDE
diagnosing problems	creating ADGCMS
collecting error information CONPAO	description ADGCMS
dumps CONPAO	ENTRY statement ADGCMS
system trace data CONPAO	executing ADGCMS
trapping entries (CPTRAP) CONPAO	FILENAME option ADGCMS
viewing CPTRAP data CONPAO	for ISPF APGDE
directory	GEN function ADGCMS
ACCT option CONPAO	loading ADGCMS
AUTOLOG CONPAO	members, creating a directory entry for
BMX option CONPAO	ADGCMS

OS/MVS linkage editor control statements supported ADGCMS SETSSI card ADGCMS specify an alias name ADGCMS usage ADGCMS

TXTLIB files

identifying for LOAD and INCLUDE command processing CMSREF searched during INCLUDE command processing CMSREF searched during LOAD command processing CMSREF searching for unresolved references **CMSREF** 

TXTLIB file type APGDE adding members to APGDE deleting members of APGDE replacing members of APGDE usage in CMS CMSUG

TXTLIB option of GLOBAL command CMSREF TXTLIB (TEXT file library) INTRO TXTLIBs APGDE

adding members to APGDE deleting members of APGDE in EXECs APGDE replacing members of APGDE

typamatic TERMREF definition of PRIMER

TYPCALL = operand **CMSSTOR OBTAIN ADRCMS CMSSTOR RELEASE ADRCMS** DMSABN macro ADRCMS PARSECMD macro ADRCMS SUBPOOL CREATE ADRCMS SUBPOOL DELETE ADRCMS

SUBPOOL RELEASE ADRCMS TYPE XEDITUG

> CPTRAP traps DIAG DATA trap example DIAG DATA trap trace record size DIAG GT trap, virtual machine interface example DIAG IO entries in the CPTRAP file DIAG

option of COPYFILE command CMSREF

of ERASE command CMSREF of IDENTIFY command CMSREF of INCLUDE command CMSREF

of LOAD command CMSREF of NAMEFIND command CMSREF

type

call in tape label processing CMSUG code, description of SYSMSG command ADMIN device SFPROG of data checking with DATATYPE **SPIREF** 

TYPE command APGDE, CMSUG and MACLIB members APGDE MEMBER option APGDE to display lines in a file CMSLOT used in FILELIST CMSLOT used in RDRLIST CMSLOT

TYPE control statement of DDR (DASD Dump Restore) ADMIN sample output of DDR program ADMIN

TYPE DATA suboperands of CPTRAP command SYSCMD TYPE function control statement

DDR program SFPROG DDR sample output SFPROG

TYPE GT suboperands of CPTRAP command SYSCMD

TYPE IO suboperands of CPTRAP command SYSCMD TYPE operand

of MAP command IPCSREF of SYSPAG macro PLNGDE

of SYSXSTOR macro PLNGDE of TERMINAL command GENCMD

TYPE parameter of DEALLOCATE CONGREF

CONNECT (APPCVM) function CONGREF

of SENDCNF CONGREF of SEND ERROR CONGREF

of SEVER CONGREF TYPE subcommand XEDIT

TYPE suboperands

of CPTRAP command SYSCMD

TYPE TTABLE suboperands

of CPTRAP command SYSCMD type-ahead line counting with EXTERNALS

**SPIREF** 

typenum operand of SELECT subcommand **IPCSREF** 

TYPENUM selectivity operands IPCSREF

typenum, variable	TYPE/NOTYPE option of DETAIL HEL
described GENCMD, SYSCMD	CMSUG
types of	type, variable
APPC security CMSMIG	described GENCMD, SYSCMD
AVS tuning parameters CONPAO	TYPE = operand
authority displayed by LISTFILE	SUBPOOL CREATE ADRCMS
CMSREF	SUBPOOL DELETE ADRCMS
communication directories CONPAO	SUBPOOL RELEASE ADRCMS
conversation security levels CONPAO	typing
conversations SAACOM	capital letters PRIMER
data SPIUG	data
executable statements	See SAY (REXX instruction)
assignments EXEC2	lines EXEC2
commands EXEC2	lines to terminal XEDITUG
control statements EXEC2	mistakes, correcting PRIMER
null statement EXEC2	over commands PRIMER
gateways CONPAO	T2305 operand
lock CMSREF	of DEFINE command GENCMD
resources CONPAO	T3310 operand
types, classes, models, and features of devices	of DEFINE command GENCMD
(DIAGNOSE code X'24') SFPROG	T3330 operand
typewriter	of DEFINE command GENCMD
keys for PC TERMREF	T3340 operand
mode XEDITUG	of DEFINE command GENCMD
terminal	T3350 operand
controlling display of column pointer on	of DEFINE command GENCMD
XEDIT	T3370 operand
using escape character on XEDIT	of DEFINE command GENCMD
using input mode XEDIT	T3375 operand
TYPEWRITER subcommand used to edit in	of DEFINE command GENCMD
line-mode CMSUG	T3380 operand
	of DEFINE command CENCMD

**UA** option of ASSGN command CMSREF of LISTIO command CMSREF UCB macro ADMIN **UCBCCW** macro **ADMIN** UCC buffer images for the 3203 Printer ADMIN UCC macro ADMIN UCCCCW macro ADMIN UCOMDIR communications directory **CONPAO** UCS macro ADMIN UCS (universal character set) adding buffer images ADMIN supplied images ADMIN UCSB (universal character set buffer) associative field chart ADMIN buffer images for the 3211 Printer ADMIN images, examples ADMIN loading RGOS UCSCCW macro ADMIN UCW operand of RCTLUNIT macro PLNGDE UFLAGS = operand CMSCALL macro ADRCMS **NUCEXT SET ADRCMS** SUBCOM SET ADRCMS unassigning logical unit assignments in CMS/DOS **ADGCMS** variables SPIREF UNAUTHORIZE function of VMCF **SFPROG** unauthorized access to system resources unconditionally leaving your program **SPIREF** UNCONV operand of CHANGE command GENCMD, **SYSCMD** under migration problems related to ADMIN underflow, arithmetic SPIREF

underlining PRIMER

U

underscore highlighting feature, controlling with CP SCREEN command CMSUG in file name and file type CMSUG use of GENCMD, SYSCMD used in COVERLAY XEDIT used in FIND used in FINDUP XEDIT used in NFIND XEDIT used in NFINDUP XEDIT used in OVERLAY XEDIT undoing your changes PRIMER to one or more files ADRCMS unexpected results DIAG checklist for reporting DIAG hardware failure DIAG in CP DIAG in virtual machine DIAG inadequate system parameters DIAG infinite loop in a virtual machine DIAG infinite loop in CP DIAG uniprocessor (UP) environment MVS virtual machine RGOS unique clusters, defining ADGCMS UNIQUEID option of EXTRACT XEDIT of QUERY XEDIT uniqueness, resource name CONPAO unit record devices CMSUG configuration aid PLNGDE defined INTRO error messages for RDEVICE macro **PLNGDE** in a virtual machine INTRO halting output SYSCMD holding output SYSCMD monitoring missing interruptions **SYSCMD** MVS virtual machine RGOS purging output SYSCMD shared or nonshared VCU mode **PLNGDE** stopping spooling SYSCMD table, generating PLNGDE virtual **GENCMD** virtual device INTRO VM under VM RGOS VSE/SP virtual machine RGOS

I/O ADGCMS	unresolved references
obtaining device information ADGCMS	during MODULE execution CMSREF
printing ADGCMS	loader handling of CMSREF
punching ADGCMS	resolving with INCLUDE command
reading ADGCMS	CMSREF
using the PRINTL macro ADGCMS	searching for TEXT files CMSREF
spool files OPGDE	searching TXTLIBs for CMSREF
stopping SYSCMD	unsupported devices
universal character set (UCS) ADMIN	defining subclass PLNGDE
altering PLNGDE	MVS virtual machine RGOS
loading sample files from product tape	VSE RGOS
INST	UNTIL keyword EXEC2
tailoring INST	UNTIL option
Universal Character Set Buffer (UCSB)	of EXTRACT XEDIT
ADMIN	of QUERY XEDIT
loading RGOS	UNTIL phrase of DO instruction SPIREF
unlabeled tapes, defining CMSUG	untokenized plist
UNLOAD command of SQL APGDE	example EXEC2
unload list in DMS/CMS APGDE	"in-memory file" EXEC2
UNLOAD OPERAND	UP command CMSLOT, PRIMER
of UNLOAD command SYSCMD	UP mode RGOS
unlock	up operand of LOCATE subcommand IPCSREF
SFS lock ADRCMS	UP subcommand of IPCSSCAN command
UNLOCK command ADMIN	description IPCSREF
controlling reallocation of	example output IPCSREF
virtual = real storage <b>OPGDE</b>	format IPCSREF
described SYSCMD	functional category IPCSREF
operands	messages IPCSREF
firstpage SYSCMD	operand IPCSREF
lastpage SYSCMD	response IPCSREF
SYSSPOOL SYSCMD	usage notes IPCSREF
SYSTEM SYSCMD	UP subcommand of XEDIT command
userid SYSCMD	XEDIT, XEDITUG
VIRT = REAL SYSCMD	in typewriter mode XEDITUG
V = R SYSCMD	practice exercise using XEDITUG
responses SYSCMD	example of XEDIT
summary OPGDE, SYSCMD	UP-generated VM/SP HPO systems
syntax diagram, class A SYSCMD	using for MVS guest RGOS
usage notes SYSCMD	UPCASE option
unlocking	of ASSGN command CMSREF
a file space SFSAD	of COPYFILE command CMSREF
a storage group SFSAD	of FILEDEF command CMSREF
files and directories CMSLOT, PRIMER	of PRINT command CMSREF
your keyboard PRIMER	update
unnumbered responses SYSMSG	definition INTRO
unordered list CMSLOT, PRIMER	file
UNPACK option of COPYFILE command	patch update files SERV
CMSREF	source update files SERV
unpacking a string with C2X SPIREF	update shells SERV
unprotected	level identifiers
QUIT XEDIT	use by PRELOAD command SERV
shared segment ADMIN	use by VMFASM EXEC SERV
unrecoverable tape error ADMIN	use by VMFHASM EXEC SERV
	mode XEDIT

procedures UPDATE parameter applying local updates INTRO DMSCRLOC (SFS Create Lock) **ASMGEND INTRO ADRCMS CMSGEND INTRO** product parameter file override area **CSLGEN INTRO** SERV DCSSGEN INTRO UPDATE statement of SQL APGDE updating deciding which procedure to use **INTRO** CMS modules using CMSGEND SERV DOSGEN INTRO directory **EXECUPDT INTRO** entries for national languages SFPROG in-place with DIAGNOSE code X'84' **GENSERVE INTRO GENTSAF INTRO SFPROG** PRELOAD INTRO with DIAGNOSE code X'3C' SFPROG punch a new nucleus SERV FILELIST display CMSLOT SAMGEN INTRO files for an existing national language SEGGEN INTRO ADMIN, SFPROG update macro libraries SERV macro libraries using VMFMAC SERV update source files SERV master file directories CMSUG **UTILITY INTRO** modules using VMFASM SERV VMFAPPLY INTRO modules using VMFHASM SERV VMFASM INTRO multiple ADGCMS VMFBLD INTRO preferred level ADGCMS VMFHASM INTRO problem report IPCSREF VMFLKED INTRO programs ADGCMS VMFMAC INTRO screen display XEDIT VMFNLS INTRO source file, using CTL option of XEDIT VMFOVER INTRO VMFTXT INTRO system dependent files, DMKBOX RGOS system dependent files, DMKRIO VRSIZE INTRO VSAMGEN INTRO VM under VM RGOS VSEVSAM INTRO VSE RGOS ZAP INTRO system dependent files, DMKSNT ZAPTEXT INTRO VM under VM RGOS **VSE RGOS** program update tapes (PUTs) INTRO shell system dependent files, DMKSYS example SERV VM under VM RGOS general description SERV text libraries using VMFTXT SERV UPDATE command APGDE UPDATE command ADGCMS control statement usage ADGCMS VMFASM EXEC ADGCMS of SQL APGDE VM/SP HPO UPDATE file type usage in CMS CMSUG accessing disks SERV UPDATE lock on a file or directory control files SERV **CMSLOT, PRIMER** files for system updates SERV UPDATE option APGDE module identifiers SERV COBOL APGDE updating loader program SERV FORTRAN APGDE VSE ADGCMS in XEDIT XEDIT UPDLOG file type usage in CMS CMSUG of EXTRACT XEDIT of QUERY XEDIT

Refer to the foldout page at the back of this book for a chart of abbreviations and their corresponding manuals.

of TRANSFER XEDIT

CLOSE command GENCMD
COMMANDS command GENCMD
COUPLE command GENCMD
CP command GENCMD
CPTRAP command SYSCMD
DCP command SYSCMD
DEFINE command GENCMD,
SYSCMD
DETACH command GENCMD,
SYSCMD
DIAL command GENCMD
DISABLE command SYSCMD
DISCONN command GENCMD
DISPLAY command GENCMD
DMCP command SYSCMD
DRAIN command SYSCMD
DUMP command GENCMD
ECHO command GENCMD
EXTERNAL command GENCMD
FLUSH command SYSCMD
FORCE command SYSCMD
GIVE command SYSCMD
HOLD command SYSCMD
INDICATE command GENCMD
IPL command GENCMD
LINK command GENCMD
LOADVFCB command GENCMD
LOGOFF command GENCMD
LOGON command GENCMD
MESSAGE command GENCMD,
SYSCMD
MONITOR command SYSCMD
MSGNOH command SYSCMD
NETWORK command SYSCMD
NOTREADY command GENCMD
ORDER command GENCMD,
SYSCMD
PER command GENCMD
PURGE command GENCMD,
SYSCMD
QVM command SYSCMD
READY command GENCMD
REQUEST command GENCMD
RESET command GENCMD
REWIND command GENCMD
SAVESYS command SYSCMD
SCREEN command GENCMD
SEND command GENCMD
SET command GENCMD
SHUTDOWN command SYSCMD
SLEEP command GENCMD
SMSG command GENCMD
SPMODE command SYSCMD
SPOOL command GENCMD
SPTAPE command SYSCMD

START command SYSCMD file directory CMSUG STCP command SYSCMD contents CMSREF STORE command GENCMD creating CMSREF SYSTEM command GENCMD finding CP control block addresses TAG command GENCMD **SYSCMD** TRACE command GENCMD hold status of spool files CMSUG TRANSFER command GENCMD, identification card **SYSCMD** for spooled card input OPGDE UNLOCK command SYSCMD format **OPGDE** VARY command SYSCMD input area TERMREF .TERMINAL command GENCMD interaction EXEC2 .VMDUMP command GENCMD level communications directory #CP command GENCMD CONGREF, CONPAO USE command of DMS/CMS APGDE messages, virtual machine OPGDE USEINST operand MODULEs with ISPF APGDE of DEFNUC macro PLNGDE options, replacing directory entry SFPROG program CONGREF, CONPAO user accounting options ADMIN See also requester virtual machine defining target of request CONPAO accounting records ADMIN, SFSAD agents description of CONPAO program area See agents areas APGDE commands that execute in CMSREF, class INTRO **CMSUG** reverting to IBM-defined ADMIN program sample CONGREF changing privilege classes ADMIN CONNECT function CONGREF communications directory CMSMIG RECEIVE function CONGREF completion code GCSREF SENDDATA function CONGREF catalogs CMSREF SEVER function CONGREF identifying, in CMS/DOS CMSREF responsibilities for CMS/DOS ADGCMS data SFSAD storage group backup FILEPOOL BACKUP command for comparison with control data backup **SFSAD SFSAD** FILEPOOL CLEANUP command for contents of SFSAD **SFSAD** creating SFSAD FILEPOOL RESTORE command for FILEPOOL BACKUP command **SFSAD SFSAD** restoring SFSAD FILEPOOL CLEANUP command data minidisks SFSAD See also storage groups FILEPOOL RESTORE command determining allocation of SFSAD **SFSAD** minimum recommended size of SFSAD running concurrently SFSAD placement of SFSAD saving outdated copies of SFSAD directory to another file pool SFSAD entries for national languages, updating user access during SFSAD **SFPROG** synchronization ADGCMS reading SFPROG task, CMS INTRO updating with DIAGNOSE code X'3C' termination, SNA SFPROG **SFPROG** transient area APGDE doubleword function of VMCF SFPROG view, CMS INTRO exit routines SECUR

Refer to the foldout page at the back of this book for a chart of abbreviations and their corresponding manuals.

USER class monitor records ADMIN	USERHOLD operand
user classes, restructuring INST	of QUERY command GENCMD,
USER directory control statement	SYSCMD
ADMIN, INTRO, PLNGDE	of SPTAPE command SYSCMD
MVS virtual machine RGOS	userid APGDE, TERMREF
operands	alternate SFPROG
cd PLNGDE	block DIAG
cl PLNGDE	definition ADMIN, SYSMSG
es PLNGDE	displaying CMSLOT, PRIMER
ld <b>PLNGDE</b>	ones logged on CMSLOT
le PLNGDE	entry in communications directory
mstor PLNGDE	CONPAO
pass PLNGDE	entry in a names file CMSLOT
pri PLNGDE	entry in requester virtual machine's
stor PLNGDE	CP directory CONPAO
userid PLNGDE	for CMS batch virtual machine CMSUG
VM under VM RGOS	for your virtual machine CMSUG
VSE RGOS	ICUV control statement CONPAO
user file pool, building INST	in private resource NAMES file CMSMIG
user identification	in RACF SECUR
See userid	requester, in communications directory
USER operand	CONPAO
of CONVERT COMMANDS command	specifying for output spool files CMSUG
CMSREF	unique CONPAO
of EXECDROP command CMSREF	of QUERY command SYSCMD
of EXECLOAD command CMSREF	option in QUERY CMSLOT
of EXECMAP command CMSREF	spool file attribute OPGDE
of INDICATE command ADMIN,	trace entry <b>DIAG</b>
GENCMD	used in NOTE command CMSLOT
of MONITOR command SYSCMD	used in names file CMSLOT
of PRB command IPCSREF	used in SENDFILE command CMSLOT
user priority option for SET command	used in TELL command CMSLOT
INTRO	used to logon CMSLOT
USER subpool ADGCMS	USERID control statement for FILEPOOL
USER userid operand	FORMAT AUDIT SFSAD
of INDICATE command SYSCMD	USERID function SPIREF
USER * operand	USERID OF REQUESTOR field in
of INDICATE command SYSCMD	FILEPOOL FORMAT AUDIT output SFSAD
user-defined functions	userid operand
description of EXEC2	of ACNT command SYSCMD
examples EXEC2	of AUTOLOG command SYSCMD
form of EXEC2	of CACHE command SYSCMD
invocation EXEC2	of CHANGE command SYSCMD
label search EXEC2	of COUPLE command GENCMD
returning to EXEC2	of DIAL command GENCMD
user-written	of FORCE command SYSCMD
EXECs, samples CMSUG	of FREE command SYSCMD
commands CMSUG	of HOLD command SYSCMD
creating CMSREF	
functions SPIUG	of IUCV directory control statement PLNGDE
programs INTRO	of LINK command GENCMD
USEREXIT tag, product parameter file	of LOCATE command SYSCMD
SERV	of LOCK command SYSCMD
SEA ₹	
	of LUNAME wheemend INCORE
	of LUNAME subcommand IPCSREF

of MESSAGE command GENCMD, enrolling SFSAD **SYSCMD** enrolling remote SFSAD of MIGRATE command SYSCMD forcing of SFSAD of MSGNOH command SYSCMD general of NAMESYS macro PLNGDE See general user of ORDER command SYSCMD listing names currently on system of PURGE command SYSCMD **GENCMD** of QUERY command SYSCMD listing those enrolled SFSAD of QUERY (ALL) command GENCMD managing SFSAD of QVM command SYSCMD MODIFY USER command SFSAD of SELECT subcommand IPCSREF moving to another file pool SFSAD of SEND command GENCMD moving to another storage group SFSAD of SET command SYSCMD PROFILE EXEC for SFSAD **OUERY LIMITS command SFSAD** of SMSG command GENCMD of SPOOL command GENCMD transferring ownership among SFSAD of SPTAPE command SYSCMD USERS operand of TRANSFER command GENCMD, of QUERY command CMSLOT, **SYSCMD SYSCMD** of UNLOCK command SYSCMD of QUERY (ALL) command GENCMD of VMDUMP command GENCMD of SET command SYSCMD of WARNING command SYSCMD USERS start-up parameter SFSAD as specified for VMSYS and VMSYSU of VIOBLOK subcommand IPCSREF **SFSAD** of VMBLOK subcommand IPCSREF userid tag in communications directory monitoring SFSAD **CONGREF** moving minidisk files to SFSAD userid, variable USERSAVE macro ADRCMS USERSECT macro ADRCMS described GENCMD, SYSCMD USERMAP subcommand of IPCSSCAN using a combined VM/SP HPO and VM/XA SP command description IPCSREF directory ADMIN example output IPCSREF a compiler PRIMER format IPCSREF an EXEC PRIMER functional category IPCSREF cache subsystems, for the 3880 Models messages IPCSREF 13 and 23 ADMIN responses IPCSREF CMS IUCV to communicate between usage notes IPCSREF two virtual machines SFPROG CP and CMS OPGDE assigning group names to ADMIN DASD block I/O system service from changing space allocations of SFSAD CMS SFPROG DELETE USER command SFSAD DDR program ADMIN deleting SFSAD Format/Allocate program ADMIN determining current number on system full-screen CMS PRIMER **GENCMD** greater-than-16-MB storage (extended displaying PRIMER storage) current space allocations of SFSAD See Diagnosis Guide number using computer CMSLOT IBM BASIC PRIMER DMSDEUSR Delete User routine SFSAD IUCV data in a buffer SFPROG DMSENUSR Enroll User routine SFSAD IUCV data in a parameter list SFPROG

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ENROLL USER command SFSAD

programmable operator facility in a distributed VM system SFPROG in a mixed environment SFPROG in a single system SFPROG single console image facility (SCIF) **SFPROG** VMCF SFPROG terminals with VM/SP TERMREF the SYSPAG macro ADMIN the SYSXSTOR macro ADMIN the virtual forms control buffer with 3262 printer GENCMD with 3289E printer GENCMD XEDIT subcommand in HELP CMSUG **USSTAB RGOS** generation of RGOS utility commands APGDE

UTILITY EXEC INTRO format SERV function SERV messages SERV operands SERV utility programs, security in SECUR UWORD parameter ACCEPT (CMSIUCV) function CONGREF UWORD = operand HNDEXT macro ADRCMS HNDIO macro ADRCMS HNDSVC macro ADRCMS IMMCMD macro ADRCMS NUCEXT SET ADRCMS SUBCOM SET ADRCMS

V	VALUE option of PARSE instruction SPIREF
V parameter	values
DMSEXIFI (SFS Exist—File) ADRCMS	integers SAACOM
DMSGETDA	for AVS, displaying CONPAO
	pseudonyms SAACOM
(SFS Get Directory—Searchall)	VAR option
ADRCMS	of EXECIO command CMSREF
DMSGETDF (SFS Get Directory—Files)	of PARSE instruction SPIREF
ADRCMS	VARBLANK option
DMSGETDS	of EXTRACT XEDIT
(SFS Get Directory—Searchauth)	of QUERY XEDIT
ADRCMS	of SET XEDIT
DMSOPEN (SFS Open) ADRCMS	of TRANSFER XEDIT
VAC operand	VARCHAR data type in SQL
of DISPLAY command GENCMD	COBOL APGDE
of STORE command GENCMD	VARGRAPH data type in SQL
VAD (VTAM/VSAM data block) DIAG	COBOL APGDE
vaddr operand	variable data operand
of CLOSE command GENCMD	AUTOLOG command SYSCMD
of COUPLE command <b>GENCMD</b>	variable
of DEFINE command GENCMD	length, converting to fixed-length
of DETACH command GENCMD	CMSREF
of DIAL command GENCMD	length records INTRO
of IPL command GENCMD	
of LOADVFCB command GENCMD	reading ADGCMS
of LOCATE command SYSCMD	support provided by DMSREAD CSL
of NETWORK command SYSCMD	routine ADRCMS
of NOTREADY command GENCMD	support provided by DMSWRITE CSL
of QUERY VIRTUAL command	routine ADRCMS
GENCMD	support provided by FSREAD macro
of READY command GENCMD	ADRCMS
of RESET command GENCMD	support provided by FSWRITE macro
of REWIND command GENCMD	ADRCMS
of SPOOL command GENCMD	names SPIREF
vaddr1 operand	number of blanks, significance of XEDIT
of GIVE command SYSCMD	packed record format XEDIT
of LINK command GENCMD	pools of ISPF
vaddr, variable	application profile pools APGDE
described GENCMD, SYSCMD	dialog variables APGDE
VALIDATE macro GCSREF	function pools APGDE
addr parameter GCSREF	shared pools APGDE
description GCSREF	record format XEDIT
key parameter GCSREF	services of ISPF
length parameter GCSREF	invoking from COBOL program
	APGDE
validation	invoking from FORTRAN program
of data reception SAACOM	APGDE
of log on passwords SECUR VALUE function SPIREF, SPIUG	size window, displaying CMSREF
VALUE RUNCHON SPIREF, SPIUG	trace option in ISPF APGDE

variables	VECTOR SYSCMD
compound SPIREF	VLOG SYSCMD
controlling loops SPIREF	VPHY SYSCMD
description of SPIREF, SPIUG	responses SYSCMD
direct interface to SPIREF	summary OPGDE, SYSCMD
dropping SPIUG	syntax diagram, class B SYSCMD
dropping of SPIREF	usage notes SYSCMD
embedded blanks EXEC2	VARY OFFLINE command OPGDE
evaluation EXEC2	VARY ONLINE command OPGDE
examples EXEC2, SPIUG	VARY operand
EXEC 2 variables EXEC2	of NETWORK command SYSCMD
exposing to caller SPIREF	varying devices offline/online
getting value with VALUE SPIREF	MVS guest in single processor mode
in internal functions SPIREF	(308x) RGOS
in subroutines SPIREF	VM under VM RGOS
in XEDIT	VSE RGOS
See editing variables	VBUILD statement CONPAO
lengths SAACOM, SPIUG	VCHBLOK DIAG, SYSCMD
names EXEC2	VCNA (VTAM Communications Network
naming conventions SPIUG	Application) RGOS
new level of SPIREF	migration to VSCS RGOS
	VCOPY APGDE
not restored by RESTORE XEDIT not saved by PRESERVE XEDIT	VCOFT AFGDE VCTC
parsing of SPIREF, SPIUG	CTC RGOS
protecting SPIUG	
· ·	activation RGOS
pseudonyms SAACOM	b.books RGOS
resetting of SPIREF	definition RGOS
restored by RESTORE XEDIT	VCU mode, shared or nonshared
saved by PRESERVE XEDIT	miscellaneous devices PLNGDE
setting new value SPIREF	tape devices PLNGDE
setting of SPIUG	TDISK space PLNGDE
sharing between routines SPIUG	terminals PLNGDE
simple SPIREF	unit record devices PLNGDE
special SPIUG	VCUBLOK DIAG, SYSCMD
RC SPIREF, SPIUG	VCUNOSHR operand
RESULT SPIREF, SPIUG	defining in directory PLNGDE
SIGL SPIREF, SPIUG	of OPTION directory control statement
substituting SPIUG	PLNGDE
testing for initialization SPIREF	VDEFINE APGDE
translation to uppercase SPIREF	VDELETE (ISPF) variable service <b>APGDE</b>
types SAACOM	VDEVBLOK DIAG, SYSCMD
used in an EXEC CMSLOT, PRIMER	vdev, variable
valid names SPIREF	described GENCMD, SYSCMD
XEDIT, known to SPIUG	vector ADMIN, APGDE
variables option in ISPF APGDE	activity count ADMIN, APGDE
VARY command RGOS	displaying APGDE
described SYSCMD	cleanup CMSUG
example of use INTRO	definition ADMIN, SYSMSG
operands	failure ADMIN
FORCE SYSCMD	instruction tracing ADMIN, APGDE
lprt SYSCMD	instructions ADMIN, APGDE
OFFLINE ADMIN, SYSCMD	mask register ADMIN, APGDE
ONLINE ADMIN, SYSCMD	registers ADMIN, APGDE
PROCESSR SYSCMD	resetting using EXECOS CMSUG
raddr SYSCMD	source ADMIN

Vector Facility ADMIN, APGDE, OPGDE vector table, mapping ADRCMS accounting records ADMIN VER or VERIFY control record, ZAP and authorization ADMIN ZAPTEXT service programs cautions about SET AFFINITY command example SERV **GENCMD** format SERV command use ADMIN function **SERV** diagnostic aids ADMIN parameters SERV special consideration during ZAP error messages APGDE finding sum of virtual machine's total processing SERV time plus CP's time GENCMD usage note SERV VER statement, patch update file SERV finding virtual machine's total time **GENCMD** verification APGDE machine checks ADMIN, ADGCMS errors, recovery from SFSAD monitor data ADMIN of changed lines XEDIT register save areas ADMIN of the control minidisk SFSAD registers routines, access ADMIN changing the contents of APGDE VERIFY function SPIREF, SPIUG displaying APGDE **VERIFY** option resource of EXTRACT XEDIT displaying how much your virtual machine of QUERY XEDIT is using APGDE of SET XEDIT resource operator controls ADMIN, OPGDE of TRANSFER XEDIT restricting use PLNGDE verifying save areas ADMIN a VSAM catalog structure CMSREF steps required for VM/SP HPO support of existence of saved systems SFPROG **ADMIN** VERSHIFT option storing in vector register pairs GENCMD of EXTRACT XEDIT storing in vector registers **GENCMD** of QUERY XEDIT storing vector activity counter GENCMD of TRANSFER XEDIT storing vector mask register GENCMD VERSION operand storing vector status register GENCMD of DEFNUC macro PLNGDE summary of VM/SP HPO support ADMIN VERSION option of PARSE instruction tracing instructions **SPIREF** with two mnemonics GENCMD vertical screens, multiple XEDITUG virtual machine controls ADMIN example of XEDITUG VGET APGDE vector mask register displaying APGDE video display TERMREF VECTOR operand Personal Computer TERMREF of QUERY command ADMIN, SYSCMD terminal CMSLOT, PRIMER of VARY command SYSCMD view vector registers of collection, SNA network CONPAO displaying GENCMD of a table in SQL APGDE pairs viewing accounting records for virtual machine displaying **GENCMD** storing in them GENCMD resource use ADMIN storing in them **GENCMD** conversation characteristics SAACOM vector status register CPTRAP data with IPCSSCAN DIAG displaying APGDE vector symbol editor (GDDM) INTRO

data	setting a device-end interruption for
examples XEDIT	GENCMD
to the left XEDIT	simulating not ready status for GENCMI
to the right <b>XEDIT</b>	unit record INTRO
two files at the same time APGDE	device addresses
VIOBLOK subcommand of IPCSSCAN	specifying during generation SFSAD
command	for file pool minidisks SFSAD
description IPCSREF	device characteristics ADRCMS
example output IPCSREF	obtaining using CMSDEV macro
format IPCSREF	ADRCMS
functional category IPCSREF	disks ADMIN, INTRO, SYSMSG
messages IPCSREF	See also disks
operands IPCSREF	counting cylinders on CMSREF
responses IPCSREF	defining in directory PLNGDE
usage notes IPCSREF	initializing CMSREF
violation	managing GENCMD
notification in RACF, real-time SECUR	managing permanent GENCMD
of security, detection mechanisms SECUR	managing temporary GENCMD
of security, patterns in SECUR	resetting number of cylinders on
VIPWORK (VTAM/VSAM workarea) DIAG	CMSREF
virtual	sharing <b>GENCMD</b>
addresses ADMIN, GENCMD, INTRO,	valid addresses for CMSREF
SYSMSG	feature usage OPGDE
definition INST	file INTRO
for tapes CMSUG	interval timer
for unit record devices CMSUG	assist ADMIN, OPGDE
block multiplexer channel option ADMIN	MVS virtual machine RGOS
channel queue DIAG	VSE virtual machine RGOS
console	I/O devices
CP commands, used for GENCMD	defining GENCMD
data, spooling INTRO	input devices
disconnecting GENCMD	action taken on a CLOSE GENCMD
facility, definition and use RGOS	IPL by device, clean-up after SFPROG
management INTRO	operating system
spooling GENCMD, OPGDE	passing parameters to GENCMD
console function, DIAGNOSE instruction	output devices
SFPROG	action taken on a CLOSE GENCMD
CSW (control status word) storing	page tables, definition ADMIN
monitored in CP internal trace table	print INTRO
SYSCMD	printer ADRCMS, INTRO
DASD INST	display current attributes GENCMD
device INTRO	external attribute buffer manipulation
console INTRO	SFPROG
direct access storage INTRO	files ADRCMS
closing GENCMD	files, closing using CP CLOSE command
defining GENCMD, OPGDE	ADRCMS
detaching GENCMD	specifying forms controls for GENCMD
determining current number of GENCMD	writing lines to using PRINTL macro
determining the status of GENCMD	ADRCMS
finding CP control block addresses	punch ADRCMS
SYSCMD	closing after PUNCHC macro ADRCMS
magnetic tape INTRO	description INTRO
removing from your virtual machine	display current attributes GENCMD
GENCMD	• • • • • • • • • • • • • • • • • • • •

spooling INTRO usage INTRO writing a line to ADRCMS reader ADRCMS display current attributes **GENCMD** handling input files INTRO reading a line from ADRCMS spooling INTRO usage INTRO relocation ADMIN reserve/release RGOS data protection RGOS clearing CMSREF CMS virtual screen PRIMER creating CMSREF data area CMSREF default characteristics CMSUG defining CMSREF, CMSUG, XEDIT definition of **PRIMER** deleting CMSREF general description CMSUG, XEDIT MESSAGE virtual screen PRIMER naming CMSREF, XEDIT NETWORK virtual screen PRIMER numbering of reserved lines CMSREF positioning the cursor CMSREF reserved area CMSREF sizing XEDIT STATUS virtual screen PRIMER system-defined CMSUG WARNING virtual screen PRIMER WM virtual screen PRIMER writing data to a CMS file CMSREF writing lines from a file to a virtual screen CMSREF screen, CMS commands CLEAR VSCREEN CMSREF CURSOR VSCREEN CMSREF DEFINE VSCREEN CMSREF DELETE VSCREEN CMSREF GET VSCREEN CMSREF PUT SCREEN CMSREF PUT VSCREEN CMSREF segment tables, definition ADMIN shadow tables ADMIN storage CMSLOT, INTRO, PRIMER altering DIAG, GENCMD changing GENCMD clearing GENCMD

compared to real INTRO decreasing consumption of SFSAD defining SFSAD definition ADMIN, SYSMSG displaying **GENCMD** dumping **GENCMD** locking selected pages SYSCMD management INTRO mapping to real INTRO minimum requirement SFSAD monitoring consumption of SFSAD need for INTRO preservation ADMIN, OPGDE preservation, SAVESEQ priority value preservation, VMSAVE option ADMIN recommended amount of SFSAD recommended setting for SFSAD requesting information about CMSUG size RGOS size limitation INTRO used by editor, what to do when it is full **CMSUG** summary INTRO system testing IPCSREF timer, controlling GENCMD unit record devices GENCMD volumes (3330V), defining GENCMD 3800 Printer, defining ADMIN 3880 Storage Control addressing ADMIN Virtual addressability extension (VAE) possible networks RGOS using RGOS virtual machine APGDE, GIM abend DIAG assignments ADGCMS assist and SET SASSIST command SYSCMD described **OPGDE** option of SET command INTRO assist feature ADMIN restrictions for use of ADMIN usage ADMIN used to reduce real supervisor-state time automatic system loading at user logon **PLNGDE AVS** 

See AVS virtual machine

1. A. 1 al. to TATEDO	IDCODER
batch machine INTRO	environment IPCSREF
changing access to commands ADMIN	altering GENCMD
changing the definition INTRO	determining status of CMSREF
changing the definition of privilege classes	entering CP commands GENCMD
ADMIN	resuming GENCMD
checklist for wait state DIAG	group INTRO, SFPROG
command environment GENCMD,	hardware support PLNGDE
SYSCMD	how to attach more than 410 devices to
components of CMSREF	ADMIN
condition DIAG	in-queue ADMIN
sources that describe DIAG	interface for type GT trap, example DIAG
configuration, altering GENCMD	interface to CPTRAP DIAG
connecting to real device SYSCMD	setting up <b>DIAG</b>
console INTRO	I/O INTRO
contents, restoring <b>OPGDE</b>	See also Diagnosis Reference
control block (VMCB) DIAG	I/O, dedicated channels
controls for the Vector Facility ADMIN	See Diagnosis Reference
data DIAG	I/O operation ADMIN
collecting in the CPTRAP file DIAG	linking devices at logon PLNGDE
considerations DIAG	loading (IPL) TERMREF
recording in the CPTRAP file DIAG	logging off GENCMD
trace record size <b>DIAG</b>	logging on GENCMD, SYSCMD
debugging DIAG	make changes INTRO
dedicating real devices <b>PLNGDE</b>	modes supported CMSMIG
defining	multiple, controlling from a single console
directory INTRO, PLNGDE	SFPROG
eight or fewer privilege classes ADMIN	naming systems PLNGDE
more than eight privilege classes ADMIN	operating system INTRO
privilege classes for ADMIN	options
spooling devices PLNGDE	controlling SYSCMD
the virtual console in the directory	MVS virtual machine RGOS
PLNGDE	VM under VM RGOS
definition ADMIN, CMSREF, CMSUG,	VSE virtual machine RGOS
SYSMSG	performance
description INTRO	for time-shared multibatch machines
determining status of <b>GENCMD</b>	ADMIN
determining storage size with DIAGNOSE	options ADMIN
code X'60' SFPROG	placing in a dormant state GENCMD
device	priority INTRO
limit ADMIN	programmable operator SFPROG
linking to <b>GENCMD</b>	real storage management
DIAGNOSE instruction use SFPROG	See Diagnosis Reference
directory entry <b>GENCMD</b>	reconfiguring GENCMD
first-level VM system RGOS	recovery RGOS
MVS virtual machine RGOS	recovery for MVS $V = R$ guest RGOS
second-level VM system RGOS	requester
VSE virtual machine RGOS	See requester virtual machine
disabled wait DIAG	requesting its return to native mode
disconnecting GENCMD	SYSCMD
disk space for APGDE	requirement INTRO
display or dump data DIAG	resetting with preferred machine assist
display status INTRO	GENCMD
dump IPCSREF	resource available to INTRO
obtaining a copy DIAG	restarting GENCMD
enabled loop DIAG	selecting the next to migrate ADMIN
•	

server See server, virtual machine functions SFPROG setting architecture mode of CMSMIG control functions GENCMD priority ADMIN share of processor time INTRO shared segment operation ADMIN software support PLNGDE spooling considerations OPGDE functions **OPGDE** state DIAG status information request INTRO status, storing GENCMD stopping execution GENCMD storage management See Diagnosis Reference storage space saving SYSCMD protocol SFPROG storing information from GENCMD system support PLNGDE termination OPGDE time management See Diagnosis Reference to virtual machine communication, CMS **IUCV SFPROG** to virtual machine communication, IUCV example SFPROG tracing activity **GENCMD TSAF** using SFPROG See also TSAF virtual machine VM/SP Release 5 SFPROG VM/SP Release 6 SFPROG unexpected results DIAG usability and security enhancements virtual machine storage PLNGDE use of real devices INTRO user messages OPGDE virtual I/O device INTRO VMSAVE option PLNGDE working in virtual environment INTRO **CMSMIG** Virtual Machine Communication Facility (VMCF) SFPROG control functions SFPROG data transfer functions SFPROG DIAGNOSE code X'68' SFPROG data transfer error codes SFPROG definition INST return codes SFPROG free storage management ADGCMS DIAGNOSE code X'68' SFPROG

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Refer to the foldout page at the back of this book for a chart of abbreviations and their corresponding manuals.

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See also CSL (callable services library)	allocating INST
routines	formatting INST
loading ADRCMS	mixed DASD considerations INST
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VS COBOL II INTRO	of DISPLAY command GENCMD
VS FORTRAN INTRO	of STORE command GENCMD
VS Pascal INTRO	VMSAVE DIAG
VMLIB callable services library	areas ADMIN
loading from product tape INST	option ADMIN
loading into logical saved segment INST	overlapping areas ADMIN
VMLIB routines	target areas ADMIN
CMS commands used with VMLIB	VMSAVE function
routines	enabling <b>OPGDE</b>
CSLLIST CMSMIG	VMSAVE operand
GLOBAL CSLLIB CMSMIG	defining in directory PLNGDE
	of IPL ADMIN
QUERY CSLLIB CMSMIG	
QUERY LIBRARY CMSMIG	of OPTION directory control statement
RTNDROP CMSMIG	PLNGDE
RTNLOAD CMSMIG	of QUERY command GENCMD
RTNMAP CMSMIG	of SET command GENCMD
RTNSTATE CMSMIG	VMSERVS PLNGDE
description CMSMIG	VMSERVS DMSPARMS file
VMLIB saved segment INST	function INST
VMLOADL subcommand of IPCSSCAN	loading from product tape INST
command	VMSERVS server machine SFSAD
description IPCSREF	automatic logging of SFSAD
example output IPCSREF	secondary user for SFSAD
format IPCSREF	VMSERVU PLNGDE
functional category IPCSREF	VMSERVU DMSPARMS file
messages IPCSREF	function INST
responses IPCSREF	loading from product tape INST
usage note IPCSREF	VMSERVU server machine SFSAD
VMMAP	automatic logging of SFSAD
analyzing performance of MVS guest	secondary user for SFSAD
RGOS	VMSRES (system residence) volume
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using to collect data about shadow tables	allocating INST
RGOS	DASD support for VMSRES INST
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punch new nucleus using VMFLOAD	TERMREF
SERV	some EBCDIC terminals supported by
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SERV	some terminals supported by TERMREF
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VR operand	defining in CMS/DOS ADGCMS
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TERMIO APGDE	ADGCMS
TRACE APGDE	extent, multivolume, information in
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WHEN APGDE WHERE APGDE	CNIS/DOS ADGUNIS
WILERE AFGUE	

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CP enabled <b>DIAG</b>	usage ADRCMS
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SYSMSG	log file for <b>PRIMER</b>
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	See SELECT instruction
	SEE SELECT INSURUCION

WHEN command APGDE positioning CMSREF, CMSUG, WHEN keyword SPIUG PRIMER WHEN subcommand reducing a window size to one line of TESTCOB command APGDE **CMSREF** of TESTFORT command APGDE restoring CMSUG WHENEVER command of SQL APGDE scrolling PRIMER WHERE clause of SQL APGDE scrolling the topmost window CMSREF WHERE command APGDE setting borders CMSUG WHERE CURRENT OF statement of SQL sizing CMSUG, XEDIT **APGDE** STATUS window PRIMER WHERE subcommand of TESTFORT system-defined CMSUG command APGDE WARNING window PRIMER where to find evidence of a problem DIAG WM window PRIMER WHILE keyword EXEC2 WINDOW option WHILE phrase of DO instruction SPIREF of EXTRACT XEDIT WHO EXEC SFSAD of LOAD XEDIT whole numbers SPIUG of XEDIT XEDIT checking with DATATYPE SPIREF windowing and full-screen CMS description of SPIREF considerations CMSUG WIDTH option WINDOW, CMS commands of EXTRACT XEDIT ALARM VSCREEN CMSREF of QUERY XEDIT CLEAR WINDOW CMSREF of TRANSFER XEDIT **DEFINE WINDOW CMSREF** of XEDIT XEDIT DELETE WINDOW CMSREF window DROP WINDOW CMSREF changing location CMSREF HIDE WINDOW CMSREF characteristics of CMSUG MAXIMIZE WINDOW CMSREF clearing CMSREF, PRIMER MINIMIZE WINDOW CMSREF CMS window PRIMER POP WINDOW CMSREF CMSOUT window PRIMER POSITION WINDOW CMSREF creating CMSREF winner, contention CONPAO default characteristics CMSUG WM virtual screen PRIMER defining CMSREF, CMSUG, XEDIT WM window PRIMER definition of PRIMER automatically displayed CMSREF deleting CMSREF commands you can enter CMSREF dropping CMSREF, CMSUG, PRIMER customizing CMSUG dropping the WM window CMSREF displaying CMSREF expanding the size to the physical screen dropping CMSREF size CMSREF exiting CMSREF general description CMSUG, XEDIT messages CMSUG hiding CMSREF PF kevs making them appear PRIMER Backward CMSUG MESSAGE window PRIMER Clear CMSUG moving PRIMER Copy CMSUG Forward CMSUG maximizing CMSUG naming XEDIT Help CMSUG NETWORK window PRIMER Left CMSUG popping CMSREF, CMSUG, Maximize CMSUG PRIMER Quit CMSUG

Refer to the foldout page at the back of this book for a chart of abbreviations and their corresponding manuals.

Restore CMSUG	workload factors influencing performance
Retrieve CMSUG	VM under VM RGOS
Right CMSUG	VSE RGOS
Top CMSUG	worksheet to aid in coding NAMESYS
using CMSUG	macro PLNGDE
WN code, exception log messages SERV	WQE DIAG
wname, variable	wrap around XEDIT
described GENCMD, SYSCMD	wrap file <b>DIAG</b>
WNG operand	WRAP option
of SET command GENCMD	of EXTRACT XEDIT
word	of QUERY XEDIT
counting in a string SPIREF	of SET XEDIT
definition of EXEC2	of TRANSFER XEDIT
deleting from a string SPIREF	wrapping, automatic line XEDIT
description of SPIUG	write authority
extracting from a string SPIREF	implicit SFSAD
finding in a string SPIREF	on a directory CMSUG
finding length of SPIREF	on a file CMSUG
functions using SPIUG	write full screen in DMS/CMS APGDE
in parsing SPIREF	WRITE macro ADGCMS
locating in a string SPIREF	execute format GCSREF
parsing SPIUG	list format GCSREF
processing	WRITE macro (BSAM) GCSREF
See formatting; word	area address parameter GCSREF
reserved EXEC2	dcb address parameter GCSREF
WORD function SPIREF, SPIUG	decb name parameter GCSREF
WORDINDEX function SPIREF, SPIUG	description GCSREF
WORDLENGTH function SPIREF,	length parameter GCSREF
SPIUG	mf parameter GCSREF
WORDPOS function SPIREF	s parameter GCSREF
WORDS function SPIREF, SPIUG	sf parameter GCSREF
work minidisk	WRITE parameter
for administration machines SFSAD	DMSGRANT (SFS Grant Authority)
for file pool server machines SFSAD	ADRCMS
for server, replacing SFSAD	write pointers, resetting ADRCMS
requirements for, during storage group	WRITE VSCREEN command CMSUG
backups SFSAD	writeshare password INTRO
usage of, during FILEPOOL RESTORE	writing
SFSAD	a file on disk XEDITUG
work unit SFSAD	in typewriter mode XEDITUG
in applications ADGCMS	using AUTOSAVE CMSLOT
using multiple ADGCMS	using FILE CMSLOT, XEDIT
work unit identifier	using SAVE, CMSLOT, XEDIT
get ADRCMS	using SET AUTOSAVE XEDIT
pop default ADRCMS	a server
purge ADRCMS	assembler SRPI
push default ADRCMS	REXX and EXEC 2
workfiles, COBOL APGDE	accounting records SFSAD
working set	applications in full-screen CMS CMSUC
definition ADMIN, SYSMSG	CMS files SPIREF
projected	CMS files onto file mode, file mode
setting size estimate control algorithm	determination CMSUG
SYSCMD	comments GENCMD, SYSCMD
setting maximum value SYSCMD	Commond Gentler, Ciberie

setting minimum size SYSCMD

data to a file using DSMWRITE CSL routine **ADRCMS** using FSWRITE macro ADRCMS files SPIUG to a directory or minidisk CMSUG labels on CMS minidisks CMSUG lines from a file to a virtual screen **CMSREF** lines to the screen SPIUG macros XEDITUG tape labels using TAPESL ADRCMS to the catalogs SFSAD to the stack with PUSH SPIREF with QUEUE SPIREF trace records stopping CONPAO to CPTRAP spool file CONPAO to storage CONPAO virtual screen data to a CMS file **CMSREF** your own CSL routines CSLENTRY macro ADRCMS CSLEXIT macro ADRCMS CSLFPI macro ADRCMS CSLGETP macro ADRCMS your own subcommands XEDITUG WRPNT = operand

FSPOINT macro ADRCMS

WRTAPE macro ERROR = operand ADRCMS MODE = operand ADRCMS TRAN = operand ADRCMS writing records on tape ADRCMS WRTERM function IPCSREF WRTERM macro COLOR = operand ADRCMS displaying lines at terminal ADRCMS EDIT = operand ADRCMS WTO macro GCSREF description GCSREF execute format GCSREF list format GCSREF mf parameter GCSREF WTOR macro GCSREF description GCSREF ecb parameter GCSREF execute format GCSREF list format GCSREF mf parameter GCSREF reply address parameter GCSREF reply length parameter GCSREF WUERROR macro general format ADRCMS WVOL1 function in tape command processing CMSUG ww, variable described GENCMD, SYSCMD

X	XEDIT command APGDE, CMSMIG, CMSLOT, PRIMER, XEDIT,
X'string operand	XEDITUG
of LOCATE subcommand IPCSREF	example of use INTRO
of LOCATE (UP) subcommand IPCSREF	FILE subcommand INTRO
X prefix macro XEDIT	POWERINP subcommand INTRO
X prefix subcommand of XEDIT command	SAVE subcommand INTRO
APGDE	SET subcommand INTRO
X'3C' entries, CPTRAP DIAG	SORT subcommand INTRO
X'3C' trace entries DIAG	STACK subcommand INTRO
X'3D' entries, CPTRAP DIAG	in typewriter mode XEDITUG
X'3F'	practice exercise using XEDITUG
CPTRAP entries DIAG	prefix subcommands APGDE
trace entries DIAG	relation to LOAD XEDIT
CPTRAP DIAG	subcommands
XAB (External Attribute Buffer) SFPROG	ADD APGDE
definition SFPROG	ALTER APGDE
format SFPROG	BACKWARD APGDE
manipulation of spool file SFPROG	CANCEL APGDE
manipulation of virtual printer SFPROG	CHANGE APGDE
READ-XAB function of SPOOL system	COPY APGDE
service SFPROG	DELETE APGDE
XCAL option of LKED command CMSREF	DUPLICATE APGDE
XCIDRM (Identify_Resource_Manager)	FILE APGDE
routine CONGREF	FIND APGDE
XCSCSP	FINDUP APGDE
(Set_Conversation_Security_Password)	FORWARD APGDE
routine CONGREF	GET APGDE
XCSCST (Set_Conversation_Security_Type)	INPUT APGDE
routine CONGREF	JOIN APGDE
XCSCUI (Set_Client_Security_User_ID)	LOCATE APGDE
routine CONGREF	LOWERCASE APGDE
XCTL macro GCSREF	MERGE APGDE
de parameter GCSREF	MOVE APGDE
description GCSREF	OVERLAY APGDE
ep parameter GCSREF	POWERINP APGDE
eploc parameter GCSREF	PUT APGDE
execute format GCSREF	PUTD APGDE
list format GCSREF	QQUIT APGDE
mf parameter GCSREF	QUERY APGDE
parameter GCSREF	QUIT APGDE
reg parameter GCSREF	RECOVER APGDE
sf parameter GCSREF	REPLACE APGDE
vl parameter GCSREF	SAVE APGDE
XCTL (OS macro) APGDE	SCREEN APGDE
XCTRRM (Terminate_Resource_Manager)	SET SCREEN APGDE
routine CONGREF	SHIFT APGDE
XCWOE (Wait_on_Event) routine	SORT APGDE
CONGREF	SPLIT APGDE
XEDIT	SPLTJOIN APGDE
See XEDIT (System Product Editor)	TOP APGDE
200 Maria (System Flouret Editor)	UPPERCASE APGDE
	= <b>APGDE</b>

to invoke System Product Editor	LOCK option (default) CMSUG
CMSUG	locking consideration for SFSAD
used to bypass profile macro	macros
XEDITUG	description of SPIUG
used to specify profile macroname	examples of SPIUG
XEDITUG	naming SPIUG
XEDIT file identification line PRIMER	return codes SPIUG
XEDIT file type APGDE	messages SPIUG
XEDIT macro	NOLOCK option CMSUG
See also macros, in XEDIT	profile SPIUG
in EXEC 2	profile, creating CMSLOT, PRIMER
avoiding name conflicts EXEC2	publications TERMREF
creating EXEC2	subcommands SPIUG
defining EXEC2	subcommands, invoking CMSUG
executing EXEC2	subcommands and macros summary
filetype EXEC2	XEDIT
sample XEDIT macro EXEC2	variables
using EXEC2	See editing variables
XEDIT EXTRACT subcommand	with a 3270 terminal TERMREF
EXEC2	XMEM operand
interface SPIREF	of OPTION directory control statement
name XEDIT	PLNGDE
XEDIT option	of SET command GENCMD, SYSCMD
of LISTDIR command CMSREF	XMEM option
of LISTFILE command CMSREF	defining in directory PLNGDE
of NAMEFIND command CMSREF	for MVS guest RGOS
of QUERY, using SFSAD	XMITMSG command
XEDIT prefix macros	operands
current line positioning EXEC2	XORing character string together SPIREF
description of EXEC2	XOR, logical SPIREF
sample of EXEC2	XRANGE function SPIREF
writing EXEC2	XREF option
XEDIT subcommand XEDIT, XEDITUG	of ASSEMBLE command CMSREF
issued from a logical screen XEDITUG	of LKED command APGDE, CMSREF
XEDIT (System Product Editor)	of OPTION command CMSREF
TERMREF	Xreg operand
changing file mode number with	of DISPLAY command GENCMD
CMSUG	of STORE command GENCMD
CLOCATE subcommand CMSUG	XTENT option of FILEDEF command
commands, repeating <b>PRIMER</b>	CMSREF
CTL option, creating multiple updates	xxx-DEVICE feature operand
to source file ADGCMS	of RCTLUNIT macro PLNGDE
example CMSUG	X2C function SPIREF
EXTRACT subcommand SPIUG	X2D function SPIREF
file type usage in CMS CMSUG	x, variable
generating full screen menus SPIUG	described GENCMD, SYSCMD
introduction to CMSLOT, PRIMER	

Y-disk accessed after IPLing CMS CMSREF YDISK operand of DEFNUC macro PLNGDE YFLAG option of ASSEMBLE command CMSREF Yreg operand of DISPLAY command GENCMD of STORE command GENCMD Y-STAT (Y minidisk directory) INST yyyy, variable described GENCMD, SYSCMD

COMMENT SERV DUMP SERV	removing multiple PTFs, example SERV removing single PTF, example SERV ZAP procedure SERV ZAPTEXT EXEC
operands SERV options SERV service program description SERV special considerations for SERV ZAP EXEC INTRO ZAP file type usage in CMS CMSUG ZAP List (SNA service) contents SERV definition SERV example SERV ZAP Log (SNA service) contents SERV definition SERV definition SERV example SERV some service contents SERV definition SERV example SERV example SERV snA service dependent SERV entry in Exclude List SERV	format SERV function SERV input control records SERV EXPAND SERV operands SERV options SERV use of EXPAND command SERV ZAPTEXT command DIAG ZAPTEXT EXEC INTRO ZCMD APGDE zeros added on the left SPIREF clearing storage to GENCMD removal with STRIP function SPIREF zone defining XEDIT effect on CFIRST XEDIT effect on CHANGE XEDIT moving column pointer to beginning of XEDIT moving column pointer to end of XEDIT of input PRIMER ZONE option of EXTRACT XEDIT
entry in Merge Log SERV entry in Remove List SERV merging multiple PTFs, example SERV merging single PTF, example SERV	of QUERY XEDIT of SET XEDIT of TRANSFER XEDIT zones, date and time VSE virtual machine RGOS

Numerics	192 minidisk address accessed as file mode D CMSUG, CMSREF
0 operand	195 virtual disk address formatted by CMS
0 operand	batch facility CMSREF
of DCP command SYSCMD	2150 TERMREF
of DMCP command SYSCMD	coding RDEVICE macro PLNGDE
1 operand	2250
of BACKSPAC command SYSCMD	coding RDEVICE macro PLNGDE
of ECHO command GENCMD	2260
of REPEAT command SYSCMD	coding RDEVICE macro PLNGDE
1017	2265
coding RDEVICE macro PLNGDE	coding RDEVICE macro PLNGDE
1018	2301
coding RDEVICE macro PLNGDE	coding RDEVICE macro PLNGDE
1052	2303
coding RDEVICE macro PLNGDE	
Printer-Keyboard TERMREF	coding RDEVICE macro PLNGDE
1053 printer	2305
limits to use of SET MITIME GRAF	attaching a device SYSCMD
command SYSCMD	coding RDEVICE macro PLNGDE
time intervals set and monitored	detaching a device SYSCMD
SYSCMD	indicating PCI flag SYSCMD
	specifying device address SYSCMD
138 Display Console TERMREF	specifying in SYSRES macro PLNGDE
1403	2314
altering font offset buffer PLNGDE	coding RDEVICE macro PLNGDE
altering universal character set	specifying in SYSRES macro PLNGDE
PLNGDE	2319
coding RDEVICE macro PLNGDE	coding RDEVICE macro PLNGDE
1403 operand	specifying in SYSRES macro PLNGDE
of DEFINE command GENCMD	2321
1443	
coding RDEVICE macro PLNGDE	coding RDEVICE macro PLNGDE
1443 operand	24-bit addressing ADGCMS, ADRCMS,
of DEFINE command GENCMD	CMSMIG
148 Display Console TERMREF	2401
158 Display Console TERMREF	coding RDEVICE macro PLNGDE
168 Display Console TERMREF	2402
18TRACK option of FILEDEF command	coding RDEVICE macro PLNGDE
CMSREF	2403
19E minidisk address accessed with	coding RDEVICE macro PLNGDE
	2404
file mode Y CMSREF, CMSUG	coding RDEVICE macro PLNGDE
190 minidisk address accessed with	2495
file mode S CMSREF, CMSUG	coding RDEVICE macro PLNGDE
191 minidisk	2501
for administration machines SFSAD	coding RDEVICE macro PLNGDE
for file pool server machines SFSAD	2501 operand
for server, replacing SFSAD	of DEFINE command GENCMD
requirements for, during storage group	2520
backups	
SFSAD	coding RDEVICE macro PLNGDE
usage of, during FILEPOOL RESTORE	2540
SFSAD	coding RDEVICE macro PLNGDE
191 virtual minidisk address accessed as	2540P operand
file mode A CMSREF	of DEFINE command GENCMD
THE THOUGHT CHINESELE	2540D amound

2540R operand

of DEFINE command GENCMD

2671	considerations for the 3880 ADMIN
coding RDEVICE macro PLNGDE	IOCP source file example PLNGDE
270 EP program	preferred machine assist
used with 37xx SYSCMD	standard feature RGOS
270x	processor RGOS
detaching a device SYSCMD	planning INST
low-speed communication lines	SET MODE MAIN command invalid
connecting previously unconnected	OPGDE
SYSCMD	3081
preventing low-speed communication	Input/Output Configuration Program
lines from accessing VM/SP HPO SYSCMD	PLNGDE
270x EP program	Processor
used to load 37xx SYSCMD	varying its configuration physically
with ATTACH command SYSCMD	offline SYSCMD
2701 SYSCMD	MSSFCALL—DIAGNOSE code X'80'
coding RDEVICE macro PLNGDE	SFPROG
2702 SYSCMD	3088
coding RDEVICE macro PLNGDE	command use with PLNGDE
2703 SYSCMD	(MCU) Multisystem Communication Unit
coding RDEVICE macro PLNGDE	coding RDEVICE macro PLNGDE
2741 Communications Terminal TERMREF	system programmer considerations
2780 Data Transmission Terminal	PLNGDE
TERMREF	links CONPAO
2955	3088 operand
coding RDEVICE macro PLNGDE	of DEFINE command GENCMD
303x	3090
specifying SRF devices PLNGDE	considerations ADMIN
attached processor	considerations for the 3880 ADMIN
activating CP assist SYSCMD	Processor RGOS
SET MODE MAIN command invalid	SET MODE MAIN command invalid
OPGDE	OPGDE
3031 TERMREF 3032 TERMREF	preferred machine assist standard feature RGOS
3033 TERMREF	
preferred machine assist	using SYSXSTOR to allocate Paging Storage PLNGDE
<u>-</u>	31-bit addressing ADRCMS
optional feature RGOS 3033 processor RGOS	direct branches ADRCMS
3036 processor <b>RGO</b> S	31-bit programming conventions ADGCMS,
coding RDEVICE macro PLNGDE	CMSMIG
Display Console Station TERMREF	3101
3036 operand	Display Terminal TERMREF
of DEFINE command GENCMD	RDEVICE macro
3066	specifying an adapter PLNGDE
coding RDEVICE macro PLNGDE	3138 operand
3066 operand	of DEFINE command GENCMD
of DEFINE command GENCMD	3148 operand
System Console TERMREF	of DEFINE command GENCMD
308x	3158 operand
considerations ADMIN	of DEFINE command GENCMD

Refer to the foldout page at the back of this book for a chart of abbreviations and their corresponding manuals.

3161/3163 ASCII Display Station	3270
TERMREF	coding real I/O configuration file
3178 Display Station TERMREF	PLNGDE
3203	control unit and device addressing
altering font offset buffer PLNGDE	PLNGDE
altering universal character set PLNGDE	device message length GENCMD
coding RDEVICE macro PLNGDE	examples of addressing PLNGDE
device	full screen I/O
LOADVFCB restrictions GENCMD	See full screen I/O
Model 4 and 5 Printer	Information Display
forms control and print buffer ADMIN	RDEVICE macro PLNGDE
Printer	terminals TERMREF
UCC buffer images ADMIN	logical, creating via logical device support
3203 operand	facility SFPROG
of DEFINE command GENCMD	RDEVICE macro
3203 printer	FEATURE coding considerations
specifying forms controls for virtual	PLNGDE
GENCMD	remote
3203-5	See remote 3270s
printer considerations when running	screen display, example CMSUG
VSE/SP guest RGOS	TERMINAL macro
3210	control unit and device addressing
coding RDEVICE macro PLNGDE	PLNGDE
Console Printer Keyboard TERMREF 3211	terminals TERMREF
	See also display terminals
altering font offset buffer PLNGDE	power off vs. logoff precautions
altering universal character set PLNGDE	GENCMD virtual console interface
coding RDEVICE macro PLNGDE Printer	
	attribute bytes, how to supply SFPROG full screen interactions SFPROG
cautions concerning attaching SYSCMD specifying forms controls for virtual	full screen interactions (3270 SIO)
GENCMD	SFPROG
UCSB buffer images ADMIN	full screen mode SFPROG
3211 operand	selector-pen limitations SFPROG
of DEFINE command GENCMD	3270 Communications Controller
3215	binary synchronous lines
coding RDEVICE macro PLNGDE	shutdown SYSCMD
Console Printer-Keyboard TERMREF	cautions concerning attaching SYSCMD
terminal console	functions
CANCEL key restrictions <b>OPGDE</b>	NETWORK command usage SYSCMD
3230	locally attached lines
coding RDEVICE macro PLNGDE	connecting low-speed lines SYSCMD
3232 Keyboard-Printer Terminal, Model 51	remote resources
TERMREF	marking devices available or unavailable
3262	SYSCMD
coding RDEVICE macro PLNGDE	using WARNING command SYSCMD
PIB buffer images ADMIN	3270 operand
Printer	of DEFINE command GENCMD
loading a virtual forms control buffer	3271
GENCMD	coding real I/O configuration macros
3262 operand	PLNGDE
of DEFINE command GENCMD	3274
	CLUSTER macro PLNGDE
	coding RDEVICE macro. PLNGDE

3275 3289E operand coding real I/O configuration macros of DEFINE command GENCMD PLNGDE 3289E printer coding TERMINAL macro PLNGDE limits to use of SET MITIME UR 3276 command SYSCMD CLUSTER macro PLNGDE loading a virtual forms control buffer coding TERMINAL macro PLNGDE **GENCMD** 3277 time intervals set and monitored coding RDEVICE macro PLNGDE SYSCMD coding TERMINAL macro PLNGDE 3290 Display Station TERMREF coding RDEVICE macro PLNGDE Information Panel TERMREF 3278 coding RDEVICE macro PLNGDE 3310 coding TERMINAL macro PLNGDE See FB-512 Display Station TERMREF **3310 DASD** Model 2A TERMREF See also FBA 3279 device capacity ADMIN, SFPROG general description ADMIN coding RDEVICE macro PLNGDE coding TERMINAL macro PLNGDE 3330 defining color coding RDEVICE macro PLNGDE DASD space requirements SCREEN directory control statement PLNGDE specifying in SYSRES macro PLNGDE Color Display Station TERMREF starter system Model 2C TERMREF forms control buffer supplied PLNGDE 328X printer 3330V limits to use of SET MITIME GRAF attaching devices to virtual machine using command SYSCMD **SYSCMD** time intervals set and monitored automatic volume mount and demount SYSCMD 3284 **OPGDE** coding RDEVICE macro PLNGDE cautions concerning attaching volumes coding TERMINAL macro PLNGDE to system SYSCMD 3286 making it available to mount system coding RDEVICE macro PLNGDE volumes SYSCMD coding TERMINAL macro PLNGDE redefined as SYSVIRT SYSCMD 3287 redefining status of a volume SYSCMD coding RDEVICE macro PLNGDE virtual feature OPGDE coding TERMINAL macro PLNGDE 3330V operand 3288 of ATTACH command SYSCMD coding RDEVICE macro PLNGDE 3333 coding TERMINAL macro PLNGDE coding RDEVICE macro PLNGDE 3289 3340 altering font offset buffer PLNGDE coding RDEVICE macro PLNGDE altering universal character set PLNGDE DASD space requirements coding RDEVICE macro PLNGDE specifying in SYSRES macro PLNGDE coding TERMINAL macro PLNGDE 3350 FOB (font offset buffer) coding RDEVICE macro PLNGDE adding ADMIN specifying in SYSRES macro PLNGDE names of supplied ADMIN starter system purpose of ADMIN forms control buffer supplied PLNGDE

Refer to the foldout page at the back of this book for a chart of abbreviations and their corresponding manuals.

3370	in NCP OR PEP mode
See FB-512	marking devices available or unavailable
3370 DASD	SYSCMD
device capacity ADMIN, SFPROG	restrictions in using the ATTACH
general description ADMIN, SFPROG	command SYSCMD
3375	special considerations for using under
coding RDEVICE macro PLNGDE	VM/SP HPO OPGDE, SYSCMD
3380	37xx Control Program
coding RDEVICE macro PLNGDE	DIAGNOSE code X'50' SFPROG
specifying in SYSRES macro PLNGDE	system name table ADMIN
starter system	using the NAMENCP macro ADMIN
forms control buffer supplied PLNGDE	using the SAVENCP command ADMIN
3380 DASD ADMIN	370-XA architecture
improving the performance of	addressing mode (AMODE)
an MVS or CMS guest running with	definition of ADGCMS, CMSMIG
ADMIN	setting ADGCMS, CMSMIG
MDISK control statement ADMIN	when to specify ADGCMS
MINIOPT control statement ADMIN	addressing, comparison to System/370
power off considerations ADMIN	ADGCMS, CMSMIG
sharing DASDs ADMIN	assembler instructions
3410	AMODE pseudo-op ADGCMS,
coding RDEVICE macro PLNGDE	CMSMIG
3420	RMODE pseudo-op ADGCMS,
coding RDEVICE macro PLNGDE	CMSMIG
3422	assembler instructions, comparison to
coding RDEVICE macro PLNGDE	System/370 ADGCMS, CMSMIG
3480 devices	assembler language I/O instructions
restrictions for MVS guest RGOS	ADGCMS
3480 magnetic tape subsystem SFPROG	bimodal addressing ADGCMS, CMSMIG
restrictions in single processor OPGDE	CMS I/O support
restrictions under DDR SFPROG	DIAGNOSE X'A4' ADGCMS
restrictions under VM/SP HPO OPGDE	DIAGNOSE X'A8' ADGCMS
3480 tape drive	overview ADGCMS
RDEVICE macro PLNGDE	preferred interface I/O macros
using DDR with it ADMIN	ADGCMS
3505	conventions for 31-bit programs
coding RDEVICE macro PLNGDE	ADGCMS, CMSMIG
3505 operand	interrupt handling CMSMIG
of DEFINE command GENCMD	I/O considerations CMSMIG
3525	overview of CMS support ADGCMS,
coding RDEVICE macro PLNGDE	CMSMIG
3525 operand	PSWs, comparison to System/370
of DEFINE command GENCMD	ADGCMS, CMSMIG
37xx	residency mode (RMODE)
binary synchronous lines	definition of ADGCMS, CMSMIG
shutdown SYSCMD	setting ADGCMS, CMSMIG
control program	when to specify ADGCMS
controlled by NETWORK command	storing the subchannel ID in register 1
SYSCMD	ADGCMS
in EP mode	370-XA device information, mapping
connecting low-speed lines SYSCMD	ADRCMS
preventing low-speed communication	370-XA exploitation
lines from accessing	definition of CMSMIG
VM/SP HPO SYSCMD	general considerations CMSMIG
	370-XA mode virtual machine ADRCMS

370-XA toleration 3767 Communications Terminal TERMREF conversion checklist 3800 assembler instructions CMSMIG coding RDEVICE macro PLNGDE CMS/DOS interface CMSMIG image library ENABLE macro CMSMIG coding RDEVICE macro to support I/O instructions CMSMIG **PLNGDE** PSWs CMSMIG named system VSAM interface CMSMIG creating PLNGDE definition of CMSMIG specifying delayed purge queue PLNGDE general considerations CMSMIG 3800 operand 370E feature of DEFINE command GENCMD enabling **GENCMD** 3800 printer 370E operand as a dedicated device ADMIN of SET command GENCMD as a real spooling device ADMIN CHANGE command ADMIN 370e option for MVS guest RGOS SPOOL command ADMIN 370X control program, saving SFPROG START command ADMIN DIAGNOSE code X'50' SFPROG as a virtual spooling device ADMIN 370X dump processing CHANGE command ADMIN NCPDUMP service program DIAG SPOOL command ADMIN network dump operations DIAG START command ADMIN character arrangement tables for ADMIN 3704 coding RDEVICE macro PLNGDE defining a virtual ADMIN 3704/3705 features naming the control program PLNGDE character arrangement tables ADMIN 3704/3705/3725 character modification ADMIN coding RDEVICE macro PLNGDE copy modification ADMIN error messages for RDEVICE macro FCB (forms control buffer) ADMIN **PLNGDE** forms overlay (flashing) ADMIN examples of RDEVICE macro PLNGDE multiple copy printing ADMIN models supported PLNGDE imbedding modules in a spool file ADMIN limits to use of SET MITIME UR **RDEVICE** macro summary of coding considerations command SYSCMD **PLNGDE** load CCWs in spool file SFPROG storage sizes PLNGDE modifying device attributes GENCMD 3704/3705/3725 control program modifying spool file attributes GENCMD generation procedure print file duplication GENCMD coding the RDEVICE macro PLNGDE specifying control information ADMIN 3704/3705/3725/3745 Communication specifying options ADMIN Controller spooling output to GENCMD controlling OPGDE time intervals set and monitored SYSCMD emulation program (EP) using CHANGE CHARS command loading considerations **OPGDE** SYSCMD using CHANGE COPY command SYSCMD loading considerations OPGDE NETWORK LOAD command OPGDE using CHANGE MODIFY command usage **OPGDE SYSCMD** 3705 using its forms overlay sheet SYSCMD coding RDEVICE macro PLNGDE using SPOOL command GENCMD 3725 coding RDEVICE macro PLNGDE

Refer to the foldout page at the back of this book for a chart of abbreviations and their corresponding manuals.

3800 printing subsystem	whether to activate or deactivate the
dedicated device support OPGDE	cache ADMIN
features OPGDE	which minidisks should be allowed to
translate tables OPGDE	use the cache ADMIN
3830	308x processor ADMIN
specifying 64-device feature PLNGDE	QUERY CACHE command ADMIN
3850 mass storage system (MSS)	SET CACHE command ADMIN
attaching 3330V devices while using	Storage Control Subsystems
SYSCMD	Model 11 ADMIN
error messages OPGDE	Model 13 ADMIN
initialization OPGDE	Model 21 ADMIN
partitioning OPGDE	Model 23 ADMIN
shutdown process SYSCMD	storage directors ADMIN
3851	virtual addressing ADMIN
coding RDEVICE macro PLNGDE	3350 DASDs ADMIN
devices, shutdown process SYSCMD	3380 DASDs ADMIN
3880	3880 storage control device
cache ADMIN	attaching SYSCMD
caching storage, candidates for ADMIN,	attaching channel SYSCMD
PLNGDE	detaching channel SYSCMD
CACHE command ADMIN	limits SYSCMD
CCW (channel command word) ADMIN	response SYSCMD
channel command words ADMIN	in QUERY command SYSCMD
coding RDEVICE macro PLNGDE	in VARY command SYSCMD
command use ADMIN	limits to defining GENCMD
considerations	limits to how it can be defined
for 308x ADMIN	SYSCMD
for 3090 ADMIN	3880 Storage Subsystem
device end posting ADMIN	caching SYSCMD
diagnostic aids ADMIN	RCTLUNIT macro PLNGDE
differences between models ADMIN	RDEVICE macro PLNGDE
format/allocate	specifying alternate channel PLNGDE
considerations ADMIN	3880-11 storage control device
hardware error messages ADMIN	in QUERY command SYSCMD
messages ADMIN	3880-21 storage control device
MNOTES ADMIN	in ATTACH CHANNEL command
Model 11 ADMIN	SYSCMD
Model 13	in NETWORK ATTACH command
hardware description ADMIN	SYSCMD
subsystem storage ADMIN	3990
using for paging and spooling ADMIN	caching storage
Model 21 ADMIN	candidates for ADMIN, PLNGDE
recommended hardware configuration	coding RDEVICE macro PLNGDE
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SYSORD macro ADMIN	ADMIN
CINCID MOUTO ADMINA	TENTARET A

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messages ADMIN	parameters SERV
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MINIOPT directory control statement	loading INST
ADMIN	override file SERV
monitor support ADMIN	sample file
RCHANNEL ADMIN	VM/SP HPO SERV
RCTLUNIT ADMIN	syntax <b>SERV</b>
RDEVICE ADMIN	tags
storage control	APP SERV
features for the model 3 ADMIN	BLD SERV
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model 2 ADMIN	CKREQ SERV
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maximum number per file pool SFSAD	END SERV
maximum number per file space SFSAD	LTO SERV
4nxx identifier, messages with SYSMSG	MDA SERV
4245	MERGE SERV
coding RDEVICE macro PLNGDE	NLS SERV
4245 operand	OVERLST SERV
of DEFINE command GENCMD	OVERLSTP SERV
4248	RECSER SERV
coding RDEVICE macro PLNGDE	SLVI SERV
4248 operand	UPDTID SERV
of DEFINE command GENCMD	USEREXIT SERV
	tailoring INST, SERV

Refer to the foldout page at the back of this book for a chart of abbreviations and their corresponding manuals.

60C option of OPTION command **CMSREF** 6262 coding RDEVICE macro PLNGDE 7TRACK option of ASSGN command CMSREF of FILEDEF command CMSREF 7171 ASCII Device Attachment Control Unit TERMREF

7412 Console TERMREF 7443 coding RDEVICE macro PLNGDE 8809 tape drive with compacted DDR data ADMIN 9TRACK option of ASSGN command CMSREF of FILEDEF command CMSREF 9370 IPCSREF

### **Special Characters**

- ¢ logical line delete symbol GENCMD, **SYSCMD**
- . (as a placeholder) SPIUG
- . (in compound symbols) SPIUG
- . (period)

as placeholder in parsing SPIREF causing substitution in variable names

#### **SPIREF**

in numbers SPIREF

.xxxx prefix subcommand XEDIT

- . (period) SAACOM
- .BX (BOX) format word CMSUG
- .CM (Comment) control word CMSUG
- .CS (Conditional Section) control word **CMSUG**
- .FO (Format Mode) control word CMSUG
- .IL (Indent Line) control word CMSUG
- .IN (indent) control word CMSUG
- .MT (Menu Type) control word CMSUG
- .OF (Offset) control word CMSUG
- .SP (Space Lines) control word CMSUG
- .TR (Translate Character) control word **CMSUG**
- .xxxx prefix subcommand XEDITUG
- < prefix macro XEDIT
- < prefix subcommand of XEDIT command
- < SHIFT LEFT MACRO XEDITUG
- < (less than operator) SPIREF, SPIUG
- < > (less than or greater than operator)
- < = (less than or equal operator) SPIREF
- + and subcommands of IPCSSCAN command IPCSREF
- + (addition operator) SPIREF, SPIUG
- +++ tracing flag SPIREF
- used in string targets XEDIT
- | (inclusive OR operator) SPIREF, SPIUG
- || (concatenation operator) SPIREF,

### **SPIUG**

- & EXEC2
- & subcommand XEDIT
- & (AND operator) SPIUG
- &ERROR statement APGDE
- &READ APGDE

&READ command (for EXEC or EXEC2) **APGDE** 

&STACK FIFO APGDE

&STACK FIFO command APGDE

&STACK LIFO APGDE

&STACK LIFO command APGDE

&0 EXEC2

& used in string targets XEDIT

& (AND operator) SPIREF

&ARGS EXEC2 control statements EXEC2 embedded blanks EXEC2

&ARGSTRING EXEC2 control statement EXEC2

embedded blanks EXEC2

&BEGPRINT EXEC2 control statement

EXEC2

truncation column EXEC2

&BEGSTACK EXEC2 control statement

EXEC2

first-in/first-out (FIFO) EXEC2

last-in/first-out (LIFO) EXEC2 truncation column EXEC2

&BEGTYPE EXEC2 control statement

EXEC2 truncation column EXEC2

&BLANK EXEC2 control statement EXEC2

embedded blanks EXEC2

&BUFFER EXEC2 control statement

EXEC2

&CALL EXEC2 control statement EXEC2

label search EXEC2

&CASE EXEC2 control statement EXEC2

&CMDSTRING EXEC2

&COMLINE EXEC2

&COMMAND EXEC2 control statement EXEC2

&PRESUME EXEC2

&CONCAT OF EXEC2

&CONCATENATION OF EXEC2

&CRASH EXEC2

&DATATYPE OF EXEC2

&DATE EXEC2

evaluation EXEC2

Greenwich Mean Time (GMT) EXEC2

&DEPTH EXEC2

&DIV OF EXEC2

&DIVISION OF EXEC2

&DUMP EXEC2 control statement EXEC2

&ERROR EXEC2	STRING EXEC2
&EXIT EXEC2	VARS EXEC2
&FILEMODE EXEC2	&TRUNC EXEC2
&FILENAME EXEC2	&RETCODE EXEC2
&FILETYPE EXEC2	&RETURN EXEC2
&FROM EXEC2	&RIGHT OF EXEC2
&GOTO EXEC2	embedded blanks EXEC2
label search EXEC2	&SKIP EXEC2
&IF EXEC2	&STACK EXEC2
comparands EXEC2	first-in/first-out (FIFO) EXEC2
comparatives EXEC2	last-in/first-out (LIFO) EXEC2
conditional statements EXEC2	&STRING OF EXEC2
&INDEX EXEC2	embedded blanks EXEC2
&LEFT OF EXEC2	&SUBCOMMAND EXEC2
embedded blanks EXEC2	&PRESUME EXEC2
&LENGTH OF EXEC2	&SUBSTR OF EXEC2
&LINE EXEC2	&TIME EXEC2
&LINENUM EXEC2	evaluation EXEC2
&LINK EXEC2	Greenwich Mean Time (GMT)
&LITERAL OF EXEC2	EXEC2
embedded blanks EXEC2	&TRACE EXEC2
&LOCATION OF EXEC2	ALL EXEC2
&LOOP EXEC2	ERR EXEC2
closing EXEC2	example EXEC2
label search EXEC2	OFF EXEC2
&MULT OF EXEC2	ON EXEC2
&MULTIPLICATION OF EXEC2	output-action EXEC2
&N EXEC2	* EXEC2
&name subcommand of IPCSSCAN	&TRACE statement in EXEC 2
command	CMSUG
description IPCSREF	&TRANS OF EXEC2
example output IPCSREF	embedded blanks EXEC2
format IPCSREF	rules for modification EXEC2
functional category IPCSREF	&TRANSLATION OF EXEC2
messages IPCSREF	embedded blanks EXEC2
operands IPCSREF	rules for modification EXEC2
responses IPCSREF	&TRIM OF EXEC2
usage notes IPCSREF	&TRUNC EXEC2
&PIECE OF EXEC2	truncation column EXEC2
&POSITION OF EXEC2	&TYPE EXEC2
&PRESUME EXEC2	&TYPE OF EXEC2
&COMMAND EXEC2	&UPPER EXEC2
&SUBCOMMAND EXEC2	&WORD OF EXEC2
&PRINT EXEC2	&& (exclusive OR operator) SPIREF,
&PUNCH control statement	SPIUG
punching jobs to CMS batch facility	! prefix on TRACE instruction SPIRE
CMSUG	\$ (as arbitrary character) XEDITUG
&RANGE OF EXEC2	\$ (as default arbitrary character) XEDIT
embedded blanks EXEC2	\$ source files, updating with EXECUPD
&RC EXEC2	SERV
&READ EXEC2	\$ALLOC\$ system area
ARGS EXEC2	description PLNGDE
embedded blanks EXEC2	\$ASIPROC
examples EXEC2	changes in RGOS
n,1,* <b>EXEC2</b>	example RGOS

\$CPNUC\$ system area description PLNGDE **\$DASD\$ CONSTS file INST** loading INST **\$DIRECT\$** system area description PLNGDE \$HLPABBR file type usage in CMS CMSUG \$HLPAVS file type usage in CMS CMSUG \$HLPCMS file type usage in CMS CMSUG \$HLPCMSQ file type usage in CMS CMSUG \$HLPCMSS file type usage in CMS CMSUG \$HLPCP file type usage in CMS CMSUG \$HLPCPOT file type usage in CMS CMSUG \$HLPCPQU file type usage in CMS CMSUG \$HLPCPSE file type usage in CMS CMSUG \$HLPDEBU file type usage in CMS CMSUG \$HLPEDIT file type usage in CMS CMSUG \$HLPEXC2 file type usage in CMS CMSUG \$HLPEXEC file type usage in CMS CMSUG \$HLPGROU file type usage in CMS CMSUG \$HLPHELP file type usage in CMS CMSUG \$HLPIPCS file type usage in CMS CMSUG \$HLPMACR file type usage in CMS CMSUG \$HLPMENU file type usage in CMS CMSUG \$HLPMSG file type usage in CMS CMSUG \$HLPPREF file type usage in CMS CMSUG \$HLPPVM file type usage in CMS CMSUG \$HLPQUER file type usage in CMS CMSUG \$HLPREXX file type usage in CMS CMSUG \$HLPROUT file type usage in CMS CMSUG \$HLPRSCS file type usage in CMS CMSUG \$HLPSET file type usage in CMS CMSUG \$HLPSQLD file type usage in CMS CMSUG \$HLPSRPI file type usage in CMS CMSUG \$HLPTASK file type usage in CMS CMSUG \$HLPTSAF file type usage in CMS CMSUG \$HLPXEDI file type usage in CMS CMSUG \$IPLxxx, changes RGOS \$LISTIO EXEC file ADGCMS appending information to CMSREF creating CMSREF format CMSREF \$MDISK\$ system area description PLNGDE \$PPFTEMP file SERV \$\$AV\$Y\$\$ system area description PLNGDE **\$SERVER\$ NAMES file CONGREF** description of CONPAO

overview CONPAO sample entries CONPAO setting up CONPAO **\$SETUP** file **SERV** \$SYSCKP\$ system area description PLNGDE \$SYSERR\$ system area description PLNGDE \$SYSWRM\$ system area description PLNGDE \$TDISK\$ system area description PLNGDE \$TEMP\$ system area description PLNGDE **\$VMFAPP \$ERRLOG** file example SERV general description SERV message codes SERV **\$VMFBLD \$ERRLOG** file example SERV general description SERV message codes SERV **\$VMFPAT\$ EXEC SERV \$VMFREC \$ERRLOG** file example SERV general description SERV message codes SERV **\$VMFREC \$HISTORY** file example SERV general description SERV \$\$A\$SUPV VSE supervisor for MODE = VM **RGOS** \$\$A\$SUP3 VSE supervisor for MODE = 370RGOS **\$\$BCLOSE** transient **ADGCMS** \$\$BDUMP transient ADGCMS \$\$BOPEN transient ADGCMS \$\$BOPENR transient ADGCMS \$\$BOPNLB transient ADGCMS \$\$BOPNR2 transient ADGCMS \$\$BOPNR3 transient ADGCMS \$\$BOSVLT transient ADGCMS \$\$\$SAVED \$POOLDEF temporary file SFSAD \$\$TEMP \$BACKUP temporary file SFSAD \$\$TEMP \$POOLDEF temporary file SFSAD

\$\$TEMP \$\$INPUT temporary file SFSAD

- (dash) SAACOM

Refer to the foldout page at the back of this book for a chart of abbreviations and their corresponding manuals.

* command CMSUG, GENCMD	*CCS (SNA Console Communication Services)
described GENCMD	SFPROG
* operand	*COPY statement CMSREF
of CHANGE command SYSCMD	*CRM (Collection Resource Management
of MESSAGE command GENCMD,	System Service) SFPROG
SYSCMD	authorizing a virtual machine to connect to
of MIGRATE command SYSCMD	CONPAO
of MSGNOH command SYSCMD	IUCV directory entry CONPAO
of ORDER command SYSCMD	*dumpid operand
of PURGE command SYSCMD	of DMCP command SYSCMD
of QUERY command GENCMD,	of DUMP command GENCMD
SYSCMD	of VMDUMP command GENCMD
of SPOOL command GENCMD	*dumpid, variable
of SPTAPE command SYSCMD	described GENCMD, SYSCMD
of START command SYSCMD	*IDENT (Identify System Service) SFPROG
of TRANSFER command SYSCMD	connecting to
of VMDUMP command GENCMD	do a revoke CONGREF
* (asterisk)	resource manager CONGREF
See also asterisk (*)	*IDENT CONGREF
as file ID on command line CMSUG	identifying
entered in file ID CMSREF	gateways CONPAO
in ACCESS command CMSREF	in APPCPASS directory statement
in COPYFILE command CMSREF	CONPAO
in DLBL command CMSREF	multiple connections to CONPAO
in DSERV command CMSREF	resources CONPAO
in EDIT command CMSREF	specified as LU name qualifier CONPAC
in ERASE command CMSREF	used in resource's locally known LU
in EXECDROP command CMSREF	name CONPAO
in EXECIO command CMSREF	revoking
in EXECLOAD command CMSREF	gateways in merging collections
in EXECMAP command CMSREF	CONGREF
in EXECSTAT command CMSREF	resource CONGREF
in file mode field CMSUG	resources in merging collections
in FILEDEF command CMSREF	CONGREF
in FILELIST command CMSREF,	your own resources CONGREF
CMSUG	*LOGREC (Error Logging System Service)
in FINIS command CMSREF	SFPROG
in INCLUDE command CMSREF	*MN802* monitor records ADMIN
in LABELDEF command CMSREF	*MSG (Message System Service) SFPROG
in LISTDS command CMSREF	*MSGALL (Message All System Service)
in LISTFILE command CMSREF,	SFPROG
CMSUG	*NCCF SFPROG
in LOAD command CMSREF	*SIGNAL (Signal System Service) SFPROG
in NAMEFIND command CMSREF	*SPL (Spool System Service SFPROG
in NUCXDROP command CMSREF	*USERID
in PEEK command CMSREF	in APPCPASS directory statement
in PRINT command CMSREF	CONPAO
in PUNCH command CMSREF	specified as LU name qualifier CONPAO
with RESET option	used in resource's locally known LU name
of INCLUDE command CMSREF	CONPAO
of LOAD command CMSREF	** (exponentiation operator) SPIREF,
* (multiplication operator) SPIREF, SPIUG	SPIUG
*-* tracing flag SPIREF	*/ comment delimiter SPIUG
*BLOCKIO (DASD Block I/O System Service) SFPROG	,

```
*/ (end of a REXX comment statement)
                                                  >L> tracing flag SPIREF
 CMSUG
                                                  >O> tracing flag SPIREF
¬ (NOT operator) SPIUG
                                                  >P> tracing flag SPIREF
¬ (NOT operator) SPIREF
                                                  >V> tracing flag SPIREF
\neg < (not less than operator) SPIREF
                                                  >.> tracing flag SPIREF
\neg > (not greater than operator) SPIUG
                                                  > < (greater than or less than operator)
\neg > (not greater than operator) SPIREF
                                                   SPIREF
\neg = (not equal operator) SPIUG
                                                  >>> tracing flag SPIREF
\neg = (not equal operator) SPIREF
                                                  > = (greater than or equal operator) SPIREF
\neg = = (not exactly equal operator) SPIUG
                                                  ? prefix on TRACE instruction SPIREF
                                                  ? operand of PRINT subcommand IPCSREF
\neg = = (not exactly equal operator) SPIREF
/ prefix command PRIMER
                                                  ? subcommand XEDIT, XEDITUG
/ prefix subcommand XEDIT, XEDITUG
                                                  ? subcommand of IPCSSCAN command
   practice exercise using XEDITUG
                                                     description IPCSREF
/ prefix subcommand of XEDIT command
                                                     example output IPCSREF
 APGDE
                                                     format IPCSREF
                                                     functional category IPCSREF
/ (diagonal)
   used in ACCESS command CMSREF
                                                     messages IPCSREF
   used in EXECUTE command CMSREF
                                                     response IPCSREF
                                                     usage note IPCSREF
/ (division operator) SPIREF, SPIUG
/JOB control card description CMSUG
                                                  ? (question mark)
/SET control card description CMSUG
                                                     used with DISK option of FILEDEF
                                                      command CMSREF
/* comment delimiter SPIUG
/* (slash asterisk)
                                                     used with DSN option of DLBL command
   CMS batch facility control card used to
    signal end of job CMSUG
                                                  # (as default line end character) XEDIT,
   end-of-file indicator in batch job CMSUG
                                                   XEDITUG
   in REXX language interpreted as comment
                                                  # (logical line end character)
    CMSUG
                                                     using when setting PF (program function)
// record ADGCMS
                                                      keys CMSUG
// (remainder operator) SPIREF, SPIUG
                                                  #CP command CMSUG, GENCMD
/= (not equal operator) SPIREF, SPIUG
                                                     described GENCMD
/= = (not exactly equal operator) SPIREF,
                                                     operand
 SPIUG
                                                       commandline GENCMD
, operand
                                                     responses GENCMD
   of STORE command GENCMD
                                                     usage notes GENCMD
, (comma) SPIREF
                                                  #CP function
   as continuation character SPIREF
                                                     used when setting PFnn RETRIEVE
% (integer division operator) SPIREF, SPIUG
                                                      CMSUG
%, used as file ID on command line CMSUG
                                                     using on display terminals CMSUG
_ (underscore) SAACOM
                                                  #CP I CMS SPIUG
> prefix macro XEDIT
                                                  @ (logical character delete character)
> prefix subcommand of XEDIT command
                                                     using when setting PF (program function)
 APGDE
                                                      keys CMSUG
> SHIFT RIGHT MACRO XEDITUG
                                                  = command
                                                     using in XEDIT CMSLOT, PRIMER
> (greater than operator) SPIREF, SPIUG
>C> tracing flag SPIREF
                                                     using on FILELIST screen PRIMER
>F> tracing flag SPIREF
```

Refer to the foldout page at the back of this book for a chart of abbreviations and their corresponding manuals.

- = option of EXTRACT XEDIT of QUERY XEDIT of SET XEDIT of TRANSFER XEDIT
- = subcommand of XEDIT command APGDE, XEDIT, XEDITUG
- = (equal operator) SPIUG
- = (equal sign) assignment indicator SPIREF entered in file IDs on command lines **CMSUG** equal operator SPIREF immediate debug command SPIREF in COPYFILE command CMSREF in DO instruction SPIREF
- = = (exactly equal operator) SPIREF, **SPIUG**
- " prefix command PRIMER
- prefix subcommand XEDIT, XEDITUG
- " prefix subcommand of XEDIT command APGDE

"HT" flag cleared before error messages SPIREF "in memory files" EXEC2 'C' or 'CC' pending XEDITUG 'C' or 'CC' pending... XEDIT 'DD' pending XEDITUG 'D' or 'DD' pending... XEDIT 'F' pending XEDITUG 'F' pending... XEDIT 'M' or 'MM' pending XEDITUG 'P' pending XEDITUG 'P' pending... XEDIT 'XX' pending... XEDIT '....' pending XEDITUG '....' pending... XEDIT example of XEDIT '<<' pending... XEDIT '>>' pending... XEDIT "" pending XEDITUG

"" pending... XEDIT

# **Summary of Changes**

Summary of Changes for GC23-0187-4 for VM/SP HPO Release 6

This summary describes the major changes that have been made to this publication for Release 6. The major changes are:

- The Glossary, formerly Chapter 2, has been omitted from the book and is now a separate publication, the VM/SP HPO Glossary, SC23-0441-0.
- The Master Index has been replaced by the new index entries compiled from the VM/SP HPO Release 6 and VM/SP Release 6 manuals.
- Diagrams detailing the reorganization of the Release 6 VM/SP HPO library have been added to Chapter 1.
- Abstracts of the manuals that make up the VM/SP HPO library are added and changed as necessary.
- Pseudonumbers for Release 5 and Order Numbers for Release 6 publications have been included.

Summary of Changes for GC23-0187-3 for VM/SP HPO Release 5

This summary describes the major changes that have been made to this publication for Release 5. The major changes are:

- The transparent services access facility (TSAF) component of VM is added to the technical discussions.
- A section is added to Chapter 1 that details the changes to the library for Release 5.
- Pseudonumbers for the VM/SP HPO Release 4.2 and VM/SP Release 5 manuals are provided.
- Abstracts of the manuals that make up the VM/SP HPO library are added and changed as necessary.
- The glossary is updated.
- Master index (Chapter 3) is replaced by the new index entries compiled from the VM/SP and VM/SP HPO Release 5 manuals.

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# **Master Index Code Foldout Table**

Book Code	Book Title	Order Number
ADGCMS	Application Development Guide for CMS	SC24-5286
ADMIN	Administration	SC19-6224
ADRCMS	Application Development Reference for CMS	SC24-5284
APGDE	Application Development Guide for CMS	SC24-5247
CMSMIG	Application Migration Guide for CMS	SC24-5366
CMSLOT	CMS Primer for Line-Oriented Terminals	SC24-5242
CMSREF	CMS Command Reference	SC19-6209
CMSUG	CMS User's Guide	SC19-6210
CONGREF	Connectivity Programming Guide and Reference	SC24-5377
CONPAO	Connectivity Planning, Administration, and Operation	SC24-5378
DIAG	Diagnosis Guide	LY27-8061
EXEC2	EXEC2 Reference	SC24-5219
GCSREF	Group Control System Command and Macro Reference	SC24-5250
GENCMD	CP General User Command Reference	SC19-6227
GIM	General Information	GC20-183
INST	Installation Guide	SC38-0107
INTRO	Introduction	GC19-620
IPCSREF	Interactive Problem Control System Guide and Reference	SC23-0443
OPGDE	Operator's Guide	SC19-6225
PLNGDE	Planning Guide and Reference	SC19-6223
PRIMER	CMS Primer	SC24-523
REL6GDE	Release 6 Guide	SC23-0189
RGOS	Virtual Machine Running Guest Operating Systems	GC19-621
SAACOM	SAA Common Programming Interface Communications Reference	SC26-439
SECUR	Introduction to Security	SC24-5316
SERV	Service Guide	SC23-0440
SFPROG	VM System Facilities for Programming	SC24-5288
SFSAD	CMS Shared File System Administration	SC24-536
SPIREF	System Product Interpreter Reference	SC24-5239
SPIUG	System Product Interpreter User's Guide	SC24-5238
SRPI	Programmer's Guide to the Server-Requested Programming Interface for VM/SP	SC24-529
SYSCMD	CP System Command Reference	SC23-0442
SYSMSG	System Messages and Codes	SC19-6220
TERMREF	Terminal Reference	SC19-620
XEDIT	System Product Editor Command and Macro Reference	SC24-5221
XEDITUG	System Product Editor User's Guide	SC24-5220

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