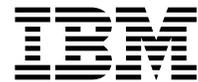


OS/390



# MVS System Commands Summary



OS/390



# MVS System Commands Summary

**Note**

Before using this information and the product it supports, be sure to read the general information under Appendix A, "Notices" on page 151.

**Eighth Edition, September 1999**

This is a major revision of GX22-0040-06.

This edition applies to Version 2 Release 8 of OS/390 (5647-A01) and to all subsequent releases and modifications until otherwise indicated in new editions.

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## About This Book

This book shows the syntax and provides a brief description of the function of the MVS system commands (also known as "operator commands" or "console commands") you can use to operate a processor under the OS/390 operating system. It lists the commands in alphabetical order. For more detailed descriptions of command functions, syntax, or parameters, see *OS/390 MVS System Commands*.

Although you can perform many of the tasks described in this book using either system commands or subsystem (JES2 or JES3) commands, this book describes only the MVS system commands. For information about JES subsystem commands and their functions, see *OS/390 JES2 Commands* or *OS/390 JES3 Commands*.

For information on system messages referred to in this publication, see *OS/390 MVS System Messages*.

---

## Who Should Use This Book

This book is intended for anyone using a console and operator system commands to control the OS/390 operating system. This book assumes that the user understands the hardware controls and features of the installation. It also assumes that the user understands the general organization and functions of an OS/390 system.



---

## Summary of Changes

### Summary of Changes for GX22-0040-07 OS/390 Version 2 Release 8

This publication contains information previously presented in GX22-0040-06, which supports OS/390 Version 2 Release 7. The following summarizes the changes to that information.

#### **Changed Information**

- Two parameters are added to the SETOMVS command: RESET=(xx), and SYSCALL\_COUNTS=(YES|NO).
- Notices and the list of trademarks used in this book now appear as Appendix A following all command descriptions.

This and each prior edition of this book also reflect the addition, modification, and deletion of information to support miscellaneous terminology, maintenance, and editorial changes. Vertical lines in the left margin of this edition indicate technical changes or additions to the text and illustrations *in this edition*.

---

### Summary of Changes for GX22-0040-06 OS/390 Version 2 Release 7

This publication contains information previously presented in GX22-0040-05, which supports OS/390 Version 2 Release 6. The following summarizes the changes to that information.

#### **New Information**

##### **DISPLAY EMCS command**

This command displays the information about extended MCS (EMCS) consoles.

#### **Changed Information**

- Three new parameters are added to the MODIFY BPXOINIT command: SHUTDOWN=FORKS, RESTART=FORKS, and DUMP=pid.
  - New subparameter ECSHR (to support enhanced catalog sharing, ECS), is added to the MODIFY CATALOG command.
  - New subparameter REPORT,PERFORMANCE (to display the performance of key events occurring in the catalog address space) is added to the MODIFY CATALOG command.
-

**Summary of Changes  
for GX22-0040-05  
OS/390 Version 2 Release 6**

This publication contains information previously presented in GX22-0040-04, which supports OS/390 Version 2 Release 5. The following summarizes the changes to that information.

***New Information***

**DISPLAY LOGGER command**

This command displays the current status of the system logger, individual log streams, or log streams from a sysplex view.

***Changed Information***

- The SYS= parameter is added to the DISPLAY CONSOLES command.
- The MCONLY parameter is added to the DISPLAY CONSOLES command.
- The TITLE and PARMLIB parameters are added to the DUMP command.
- The RESMIL and TOLINT parameters are added to the SETGRS command.
- The MSGONLY parameter is added to the SETIOS command.
- As part of the name change of OS/390 OpenEdition to OS/390 UNIX System Services, occurrences of OpenEdition have been changed to OS/390 UNIX System Services or its abbreviated name, OS/390 UNIX. OpenEdition may continue to appear in messages, panel text, and other code with OS/390 UNIX.

This edition of the book also reflects the addition, modification, and deletion of information to support miscellaneous terminology, maintenance, and editorial changes. These include the addition of a Table of Contents and page headings with the command names.

---

**Summary of Changes  
for GX22-0040-04  
OS/390 Version 2 Release 5**

This publication contains information previously presented in GX22-0040-03, which supports OS/390 Version 2 Release 4. The revisions include only terminology, maintenance, and editorial changes.

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**Summary of Changes  
for GX22-0040-03  
OS/390 Version 2 Release 4**

The publication contains information previously presented in GX22-0040-02, which supports OS/390 Version 1 Release 3. The following summarizes the changes to that information.

### ***New Information***

#### **DISPLAY RTLS**

This command displays the current status of the run-time library services (RTLS) environment.

#### **DISPLAY WLM,RESOURCE=*resourcename***

This command displays the status of resources.

#### **DISPLAY WLM,SCHEMV=*schenvironmentname***

This command displays the status of scheduling environments.

#### **MODIFY WLM,RESOURCE=*resourcename***

This command changes resource state settings (to ON, OFF, or RESET).

#### **SET RTLS=*xx***

This command allows you to change the RTLS configuration.

#### **VARY WLM,POLICY=*polycyname*,REFRESH**

This command discards historical workload characterization data, then resets and activates the named policy and starts data collection anew.

### ***Changed Information***

#### **DISPLAY PROG,LPA**

This command displays information about modules dynamically added to the LPA, and displays the minimum amount of CSA and ECSA that must remain after adding a module to the LPA.

#### **SET PROG=*xx***

This command activates a PROGxx member containing definitions of modules that are to be added to or deleted from the LPA after IPL.

#### **SETPROG LPA**

This command enables you to identify modules to add to or delete from the LPA any time after IPL. It also allows you to specify threshold values for minimum amounts of CSA storage that still must be available after an ADD operation.

---

### **Summary of Changes for GX22-0040-02 OS/390 Release 3**

This publication contains information previously presented in GX22-0040-01, which supports OS/390 Version 1 Release 2. The following summarizes the changes to that information.

### ***New Information***

#### **SETGRS command**

This command provides the ability to migrate from a global resource serialization (GRS) ring complex to a star complex, without a complex-wide IPL.

**DISPLAY WLM,APPLENV=*applenvname***

This command displays the status of application environments.

**VARY WLM,APPLENV=*applenvname***

This command controls application environments (with REFRESH, QUIESCE, and RESUME options).

***Changed Information*****CANCEL**

Special CANCEL considerations may apply if the system is part of a global resource serialization complex.

---

**Summary of Changes  
for GX22-0040-01  
OS/390 Release 2**

This publication contains information previously presented in GX22-0040-00, which supports OS/390 Version 1 Release 1. The following summarizes the changes to that information.

***New Information*****SETLOAD command**

This command provides the ability to change the parmlib concatenation (logical parmlib) dynamically.

**SETGRS command**

This command provides the ability to migrate from a global resource serialization ring complex to a star complex without a complex-wide IPL.

**DISPLAY PARMLIB**

This command displays information about the logical parmlib setup for a system.

**DISPLAY IPLINFO**

This command displays information about the general IPL information that the system uses.

**DISPLAY PROG,EXIT,EXITNAME=*exitname*,DIAG**

This command displays diagnostic information about the specified exit, including entry point and load addresses.

**DISPLAY PROG,LNKLST**

This command displays information about the LNKLST concatenation defined through PROGxx or LNKLSTxx.

***Changed Information*****SETXCF COUPLE**

GRS is added to the list of services supported by the TYPE=(name,name...) parameter.

**DISPLAY GRS**

The Display command now includes the global resource serialization star configuration. Message ISG020I is replaced by message ISG343I.

**CANCEL**

GRS=STAR is added to the list of parameters that invoke global resource serialization.

---

**Summary of Changes  
for GX22-0040-00  
OS/390 Release 1**

This publication contains information previously presented in GX22-0022, which supports MVS/ESA System Product Version 5. The revisions include only terminology, maintenance, and editorial changes.

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## Syntax Notation

You must follow certain syntactical rules when you code commands. As you code the MVS commands described in this book, use Figure 1 for help with the syntax.

<i>Figure 1. System Command Syntax Notation</i>		
<b>Notation</b>	<b>Meaning</b>	<b>Example Book Syntax</b>
Apostrophes	Must be entered as shown.	SEND 'message',NOW
Comma	Must be entered as shown.	DISPLAY C,K
Ellipsis ...	The parameter can be repeated. Do not enter the ellipsis.	VARY (conspec[,conspec]...),ONLINE
Lower Case Parameter	A parameter must be substituted. You can enter the command and the parameter in either upper or lower case.	MOUNT devnum
Or-bar ( )	You must enter one of the items. You cannot enter more than one.	ACTIVATE[,RECOVER=SOURCE TARGET]
Parentheses and special characters	Must be entered as shown.	DUMP COMM=(text)
Single parameter in brackets	The parameter is optional.	DISPLAY DMN[=domainum]
Stacked items in braces	You must enter one of the items. You cannot enter more than one.	MN {DSNAME} {SPACE} {STATUS}
Stacked items with or-bars ( ) and brackets	Optional, mutually exclusive parameters. Enter one or none.	CD RESET [ ,SDUMP ]  ,SYSABEND  ,SYSUDUMP  ,SYSMDUMP  ,ALL
Underline	If you do not enter one of the parameters, the system supplies the underlined parameter, which is the default	K T [ ,REF ] [ ,UTME=nnn]
Upper Case Parameter	The parameter must be spelled as shown. You can enter the command and the parameter in either upper or lower case.	DISPLAY SMF



## ACTIVATE Command

---

### MVS System Commands Syntax

---

#### ACTIVATE Command

---

##### ACTIVATE

```
ACTIVATE { [,IODF=xx][,EDT=xx][,PROC=procname][,CFID=id] }
         { [,RECOVER=SOURCE|TARGET][,ACTIOCDS=xx] }
         { [,SOFT[=VALIDATE|NOVALIDATE] ] }
         { [,TEST ] }
         { [,FORCE ] }
         { [,FORCE={DEVICE } }
         { {CANDIDATE } }
         { { (DEVICE,CANDIDATE) } }
         { { (CANDIDATE,DEVICE) } }
```

NOTE: Do not specify a comma before the first parameter following ACTIVATE.

##### Description:

Dynamically activate or test a new I/O configuration definition.

**IODF=xx** Activates the SYS1.IODFxx data set. The default is the current data set.

**EDT=xx** Activates the EDT that the system is to construct from the target IODF. The default is the current EDT.

**PROC=procname** Activates the processor whose IODF definition the system will use. The default is the current processor.

**CFID=id** Activates the configuration identifier that indicates the operating system definition in the target IODF. The default is the current configuration identifier.

**ACTIOCDS=xx** Activates the specified IOCDS name. If you specify only this keyword, the system will not perform any other dynamic changes.

**SOFT={VALIDATE|NOVALIDATE}** Activates only software changes to the I/O configuration. When you specify SOFT, you cannot specify FORCE.

**RECOVER** Allows the installation to continue a dynamic change.

**TEST** Activates test mode. The system checks, but does not change, the configuration. When you specify TEST you cannot specify FORCE.

**FORCE** Activates the ability to delete hardware resources that may affect other partitions. When you specify FORCE, you cannot specify SOFT or TEST.

## CANCEL Command

---

### CANCEL Command (C)

<b>CANCEL or C</b>	
<pre>C {jobname          } [,DUMP] [,A=asid] [,ARMRESTART]   {U=userid         }   {[jobname.]identifier}</pre>	
<b>Description:</b> Immediately end an active job, started task, or time-sharing user.	
<b>jobname</b>	The named job to end, which can be a batch job, started task, or APPC/MVS transaction program.
<b>U=userid</b>	Cancel the specified user or, if the user does not have a unique name yet, cancel the user logging on at address <i>asid</i> , using the following command: CANCEL U=*LOGON*, A= <i>asid</i> where <i>asid</i> is the hexadecimal address space identifier.
<b>[jobname.]identifier</b>	The identifier for the unit of work that you want to cancel, optionally preceded by the job name. The following types of identifiers can be used: <ul style="list-style-type: none"><li>• The identifier that was specified on the START command.</li><li>• [/]<i>devnum</i>, the device number specified on the START or MOUNT command.</li><li>• <i>devicetype</i>, the type of device specified on the START or MOUNT command.</li></ul>
<b>DUMP</b>	Take a user dump. Dumps are not taken during job allocation or deallocation.
<b>A=asid</b>	The hexadecimal address space identifier of the work unit you want to cancel.
<b>ARMRESTART</b>	Indicates the batch job or started task should be automatically restarted, if it has registered as an element of the automatic restart manager.

## CHNGDUMP Command

---

### CHNGDUMP Command (CD)

#### CHNGDUMP or CD

```
CD DEL[,SDUMP[(option[,option]...)]  
    [      [,Q={YES|NO}]  
    [      [,TYPE={XMEM|XMEME}]  
    [      [,ALL]  
    [      [,SYSFAIL,STRLIST={ALL|(STRNAME=strname[,STRNAME=strname]...)}]]  
    [      ]  
    [{,SYSABEND}[,SDATA=(option[,option]...)]  
    [{,SYSUDUMP} |,PDATA=(option[,option]...)]  
    [      |,ALL  
    [      ]  
    [,SYSDUMP[(option[,option]...)]  
    [      |,ALL  
    [      ]  
    [,ALL  
    ]
```

## CHNGDUMP Command

### Description:

Remove options from or reset the options lists.

**SDUMP** Set SDUMP dump mode to ADD and empty the options list.

**SDUMP=(options)**  
Remove the specified options from the options list.

**SDUMP,TYPE=XMEM**  
Turn off the "cross memory" option.

**SDUMP,TYPE=XMEME**  
Turn off the "cross memory at the time of the error" option.

**SDUMP,Q=YES or NO**  
Specify whether to quiesce the system while dumping SQA and CSA.

**SDUMP,ALL** Same as DEL,SDUMP.

**SDUMP,SYSFAIL,STRLIST={ALL or (STRNAME=strname)}**  
Delete STRNAME specifications from the dump options list.

**SYSABEND** Set the SYSABEND dump mode to ADD, and reset the options list to the values established during system initialization.

**SYSABEND,{SDATA=(options) or PDATA=(options)}**  
Remove any SDATA or PDATA options that previous CHNGDUMP commands put into the options list.

**SYSABEND,ALL**  
Same as DEL,SYSABEND.

**SYSUDUMP** Set the SYSUDUMP dump mode to ADD, and reset the options list to the values established during system initialization.

**SYSUDUMP,{SDATA=(options) or PDATA=(options)}**  
Remove any SDATA or PDATA options that previous CHNGDUMP commands put into the options list.

**SYSUDUMP,ALL**  
Same as DEL,SYSUDUMP.

**SYSMDUMP** Set the SYSMDUMP dump mode to ADD, and reset the options list to the values established during system initialization.

**SYSMDUMP=(options)**  
Remove any specified options that previous CHNGDUMP commands put into the options list.

**SYSMDUMP,ALL**  
Same as DEL,SYSMDUMP.

**ALL** Set all dump modes to ADD, and reset all system dump options lists to the values established during system initialization.

## CHNGDUMP Command

```
CD RESET[,SDUMP ]
      |,SYSABEND
      |,SYSUDUMP
      |,SYSMDUMP
      |,ALL
```

### Description:

#### RESET or RESET,ALL

Set all dump modes to ADD and reset the system dump options list to the values established during system initialization.

#### RESET,SDUMP or SYSABEND or SYSUDUMP or SYSMDUMP

Set the specified dump type mode to ADD and reset the options list to the values established during initialization.

```
CD SET,{NODUMP }
      { }
      {OVER }
      { }
      {ADD }
      {SDUMP[(option[,option]...)] }
      { [,Q={YES|NO}] }
      { [,TYPE={XMEM|XMEME}] }
      { [,BUFFERS={nnnnK|nnnM}] }
      { [,MAXSPACE=xxxxxxxM] }
      { [,MSGTIME=yyyyy] }
      { [,SYSFAIL,STRLIST=(s-option[,s-option]...)] }
      { [,NODUMP] }
      { |,OVER }
      { |,ADD }
      { }
      {{SYSABEND}[,SDATA=(option[,option]...)] [,NODUMP] }
      {{SYSUDUMP} |,PDATA=(option[,option]...)|,OVER }
      { |,ADD }
      { }
      {SYSDUMP[(option[,option]...)] [,NODUMP] }
      { |,OVER }
      { |,ADD }
      { }
```

## CHNGDUMP Command

Where **s-option** represents:

```
STRNAME=strname
[ ,CONNAME=conname ]
[
[ ,ACCESSTIME={ENFORCE|NOLIMIT|NOLIM} ]
[
[ ,LOCKENTRIES ]
[
[ ,USERCNTLS ]
[
[ ,EVENTQS ]
[
[ , (EMCONTROLS={ALL| (list)}) ]
[
[ , ( (COCLASS|STGCLASS|LISTNUM)={ALL| (list)} ]
[ { [,ADJUNCT={CAPTURE|DIRECTIO}] [,ENTRYDATA={UNSERIALIZE|SERIALIZE}] ] ]
[ { [,SUMMARY] } ) ]
```

### Description:

Set the dump modes and options.

#### **NODUMP** or **ADD** or **OVER**

Set the SDUMP, SYSABEND, SYSUDUMP, and SYSMDUMP dump modes.

#### **SDUMP**, **NODUMP** or **ADD** or **OVER**

Set the SDUMP dump mode.

#### **SDUMP = (options)**

Put the options in SDUMP options list.

#### **SDUMP,TYPE=XMEM**

Set the SDUMP options list to "cross memory."

#### **SDUMP,TYPE=XMEME**

Set the SDUMP options list to "cross memory at the time of error."

#### **STRNAME=***strname*

Designate a particular coupling facility structure.

#### **CONNAME=***conname*

The name of a user connected to the coupling facility structure.

#### **ACCESSTIME={ENFORCE or NOLIMIT}**

Determine whether or not to enforce the ACCESSTIME parameter of the IXLCONN macro.

#### **LOCKENTRIES**

Include the lock table entries for the requested structure in the dump.

#### **USERCNTLS**

Request that the user-attached controls be included in the dump.

## CHNGDUMP Command

**COCLASS={ALL or (list)}**  
Specify which cast-out classes are included in the dump.

**STGCLASS={ALL or (list)}**  
Specify which storage classes are included in the dump.

**LISTNUM={ALL or (list)}**  
Specify which lists are included in the dump.

**ADJUNCT={CAPTURE or DIRECTIO}**  
Indicate that the adjunct data is included in the dump.

**ENTRYDATA={UNSERIALIZE or SERIALIZE}**  
Indicate that the entry data is included in the dump.

**SUMMARY** Indicate that a summary of the range of classes or lists is dumped.

**SDUMP,Q=YES or NO**  
Specify whether to quiesce the system while dumping.

**SDUMP,MAXSPACE=xxxxxxx**  
The amount of space that the SVC Dump uses, in megabytes.

**SDUMP,MSGTIME=yyyyy**  
The amount of time that the message IEA793A appears on the console, in minutes.

**SDUMP,BUFFERS=nnnnK or nnnM**  
Reserve storage for SVC dump to use while the system captures the contents of common area storage. The amount can be expressed in either kilobytes (K) or megabytes (M).

**SDUMP,SYSFAIL,STRLIST=(structure names and options)**  
Set structures to be dumped. The default is 0.

**SYSABEND,NODUMP or OVER or ADD**  
Set the SYSABEND dump mode.

**SYSABEND,SDATA=(options) or PDATA=(options)**  
Put the specified options in the option list.

**SYSUDUMP,ADD or OVER or NODUMP**  
Set the SYSUDUMP mode.

**SYSUDUMP,SDATA=(options) or PDATA=(options)**  
Put the specified options in the option list.

**SYSMDUMP,ADD or OVER or NODUMP**  
Set the SYSMDUMP mode.

**SYSMDUMP=(options)**  
Put the specified options in the option list.

## CONFIG Command

### CONFIG Command (CF)

CONFIG or CF
<pre>CF {{CPUAD CPU}(x[,x]...)[,{<u>ONLINE</u> <u>ON</u>}[,{VFON } ] ,{OFFLINE OFF}] } {   {      ,VFOFF   } } {VF(x[,x]...)[,{<u>ONLINE</u> <u>ON</u>] ,{OFFLINE OFF}] } {   {     }   } } {{STORAGE STOR}{{ddddM} }[,,{<u>ONLINE</u> <u>ON</u>] ,{OFFLINE OFF}] } {   {{ddddM-ddddM}}   {{E=id} } } {   } } {ESTOR(E=id)[,{<u>ONLINE</u> <u>ON</u>] ,{OFFLINE OFF}] } {   } } {CHP{(xx) }[,,{<u>ONLINE</u> <u>ON</u>}[NOVARY] ,{OFFLINE OFF}[UNCOND]] } {   {{aa-bb} }    ,FORCE } {   {{list} } } {   {{ALL,id}} }</pre>
<p><b>Description:</b> Change or check the configuration of the system.</p> <p><b>CPUAD or CPU</b> Indicator to reconfigure one or more processors.</p> <p><b>(x[,x]...)</b> The processors to reconfigure, identified by x (0 through F).</p> <p><b>VFON or VFOFF</b> Bring online or keep offline the Vector Facility attached to each processor.</p> <p><b>VF</b> Reconfigure one or more Vector Facilities attached to the indicated processors (x[,x]...).</p> <p><b><u>ONLINE</u> or <u>ON</u></b> The system is to bring online the specified processors.</p> <p><b><u>ONLINE</u>,NOVARY</b> The system is to bring online the specified channel paths, without bringing online the paths to the associated devices.</p> <p><b>OFFLINE or OFF</b> The system is to take offline the specified processor(s).</p> <p><b>STORAGE or STOR</b> Reconfigure central storage.</p> <p><b>ddddM</b> The amount of central storage to be reconfigured in megabytes (M). It must be a multiple of the storage increment size (usually 2, 4, or 8).</p> <p><b>ddddM-ddddM</b> The starting and ending addresses of the storage.</p>

## CONFIG Command

<p><b>E=id</b> The storage or expanded storage element identified by the storage element ID.</p> <p><b>ESTOR</b> Reconfigure expanded storage, both logically and physically.</p> <p><b>CHP</b> Reconfigure one or more channel paths.</p> <p><b>(xx) or (aa-bb)</b> A single channel path or range of paths. Values range from 0 to FF.</p> <p><b>(list)</b> A list of single or ranges of paths.</p> <p><b>(ALL,id)</b> Reconfigure all channel paths associated with one side of a partitioned processor complex. The <b>id</b> identifies the side (0 or 1).</p> <p><b>OFFLINE,UNCOND</b> Take the path offline even if it is the last path to a device. This command is rejected if the device is in use, allocated, a TP device, or is the only active console.</p> <p><b>OFFLINE,FORCE</b> <u>CAUTION: FORCE is very powerful. Be sure you understand all of its consequences.</u> Take the path offline even if it is the last path, except if the device is the only active console.</p>
<p>CF MEMBER[(member-id)]</p> <p><b>Description:</b></p> <p>The system is to use a CONFIGxx member of SYS1.PARMLIB to reconfigure available processors, storage sections, vector facilities, and channel paths. The identifier(xx) of the CONFIGxx member you want the system to use is specified by the <b>member-id</b>. The default is 00.</p>
<pre>CF {ONLINE ON }[,L={ a }]   {OFFLINE OFF} {cc }                 {cca }                 {name }                 {name-a}</pre> <p><b>Description:</b></p> <p>The system displays the system configuration so that you can decide which processors, central or expanded storage elements, vector facilities, and channel paths you want to bring online/offline. It then brings online/offline items specified in response to message IEE522D.</p> <p><b>L=a, cc, cca, name or name-a</b> The display area (a), console (cc), both (cca), console name (name), or both (name-a) where the system is to display the system configuration.</p>

## CONTROL Command

### CONTROL Command (K)

<p><b>CONTROL or K</b></p> <pre>K A[,nn[,nn]...][,L={cc }]    ,NONE      {name}    ,REF</pre> <p><b>Description:</b> Change the display area specifications.</p> <p><b>nn[,nn]...</b> The number of message lines in each display area. The first number defines the bottom area of the screen and the rest work towards the top.</p> <p><b>NONE</b> All out-of-line display area specifications are removed for the specified console.</p> <p><b>REF</b> Display the size of out-of-line display areas for the specified console.</p> <p><b>L=cc or name</b> The display console to be changed or referenced.</p>
<pre>K C,{A I E CE},{id id-id[,id id-id]...}</pre> <p><b>Description:</b> Delete one or more action messages that the action message retention facility has retained.</p> <p><b>A</b> Delete immediate action(descriptor code 1 or 2), eventual action (code 3), or critical eventual action (code 11) messages.</p> <p><b>I</b> Delete immediate action messages (code 1 or 2).</p> <p><b>E</b> Delete eventual action messages (code 3).</p> <p><b>CE</b> Delete critical eventual action messages (code 11).</p> <p><b>id or id-id</b> The message id number or range to be deleted.</p>
<pre>K C,D,id[,L={a }]       {cc }       {cca }       {name }       {name-a}</pre> <p><b>Description:</b></p> <p><b>C,D</b> Stop the in-line display.</p> <p><b>id</b> Three digit identification number of the status display you want to stop.</p> <p><b>L=cc or name</b> The identification number or name of the active MCS console where the display is to be stopped.</p>

## CONTROL Command

```
K D[,N[,HOLD]
  |{,F|,H|,U}[,L={a|cca|name-a}]
  |,PFK
```

**Description:**

Display information on the screen.

**N** Remove consecutively numbered messages on the screen.

**HOLD** Renumber messages after a message deletion.

**F** Display the next frame of the status display.

**H** Suppress the updating of a dynamic status display.

**U** Resume the updating of a dynamic status display.

**PFK** Display the numbers of the program function keys.

**L=a or cca or name-a**

The display area (a), console id and display area (cca), or console name and display area (name-a) where information is displayed.

```
K E[,nn
  |,nn,nn
  |,SEG
  |,F
  |,N
  |,PFK
  |,D[,L={a
    |{cc }
    |{cca }
    |{name }
    |{name-a}
```

**Description:**

**nn** Remove a single deletable message from the screen (nn is a decimal).

**nn,nn** Remove a range of deletable messages.

**SEG** Remove deletable messages in the predefined message segment.

**F** Remove all flagged (having a vertical or horizontal bar in position 3) messages.

**N** Consecutively number messages on the screen.

**D** Delete a status display at the console and display area specified by *L={cca or name-a}*.

**PFK** Erase the numbers from the program function key (PFK) display line.

```
K M[,AMRF={Y|N}]
  |,REF
```

```
K M[,REF[,MLIM=nnnn][,RLIM=mmmm]]
```

## CONTROL Command

<pre>K M[,UEXIT={Y N}]    ,REF</pre>
<p><b>Description:</b></p> <p><b>AMRF</b> Activate (Y) or deactivate (N) the action message retention facility.</p> <p><b>MLIM=nnnn</b> The maximum number of WTO (write-to-operator) message buffers to be allowed where <b>nnnn</b> can be a decimal number from 20 to 9999.</p> <p><b>RLIM=mmmm</b> The maximum number of WTOR (write-to-operator-with-reply) message buffers to be allowed where <b>mmm</b> can be a decimal number from 5 to 9999.</p> <p><b>UEXIT</b> Activate(Y) or deactivate(N) the general user exit routine IEAVMXIT. If IEAVMXIT is already active and you want a new copy, deactivate it, refresh the library lookaside (LLA), and then reactivate IEAVMXIT.</p> <p><b>REF</b> Display the current values for CONTROL M operands in the entry area of the master console. If the master console is not a display console, the operands and values are printed in message IEE1441.</p>
<pre>K M[,LOGLIM={nnnnnn 0}]    ,REF</pre>
<p><b>Description:</b></p> <p><b>LOGLIM=nnnnnn</b> The maximum number of outstanding WTL requests that the system can hold in buffers on the system, from 20 to 999999.</p> <p><b>LOGLIM=0</b> The maximum number of outstanding WTL requests is set to 0. All outstanding WTL buffer storage is freed. Use this only at the direction of the system programmer.</p> <p><b>REF</b> Display the current value of CONTROL M.</p>
<pre>K M[,ROUTIME=nnn ]    ,REF</pre>
<p><b>Description:</b></p> <p>Display or change the maximum time that ROUTE commands wait for a response before aggregating responses.</p> <p><b>ROUTIME=nnn</b> Dynamically changes the maximum number of seconds the ROUTE *ALL or ROUTE <i>systemgroupname</i> command waits for command responses from each system before aggregating the responses. (If not specified in CONSOLxx, the IBM-supplied default value is 30 seconds.) The <i>nnn</i> value is a decimal number from 0-999.</p> <p><b>REF</b> Display the current value of the CONTROL M,ROUTIME operand. Display or dynamically increase the maximum number of reply IDs.</p>
<pre>K M[,RMAX=nnnn ]    ,REF</pre>
<p><b>Description:</b></p> <p><b>RMAX=nnnn</b> Dynamically increase the maximum number of reply IDs, where <i>nnnn</i> is a decimal number from 99 to 9999.</p> <p><b>Note:</b> The value for RMAX also determines the size of the reply ID displayed in the message text.</p> <p><b>REF</b> Display the current value of the CONTROL M,RMAX operand.</p>

## CONTROL Command

```
K N,PFK={ (nn1{,CMD='text[:text]...'})[,CON={Y|N}] }
      { {,KEY=nn2[,nn2]... } }
      { nnnnnnn[,L={cc|name}] }
```

**Description:**

**nn1** The number of the program function key (PFK) to be defined.

**CMD='text[:text]...'**

The text of the operator's commands to be associated with PFK nn1. A maximum of 110 characters can be included in the quotes. Separate different commands with semi-colons.

**KEY=nn2[,nn2] ...**

The number(s) of the PFK commands that can be associated with PFK nn1, separated by commas.

**CON=Y or N** Specify whether conversational mode of command entry is in effect.

**nnnnnnnn** The name of the PFK table that contains the commands that define the PFKs for a console defined by L={cc or name}.

```
K Q[,R={dd }][,L={cc|name}]
      {name}
      {HC }
```

**Description:**

Change or display a console's message queue.

**R** Reroute the message queue to the specified console (dd or name) or specified hardcopy device (**HC**).

**L=cc or name**

The id name or console whose message queue is to be rerouted.

## CONTROL Command

```
K S[,REF]
  |
  | [,CON={Y|N}] [,SEG=nn] [,DEL={Y|N|R|RD|W}]
  | [,RNUM=nn] [,RTME=nnn] [,MFORM=(option[,option]...)]
  |
  | [,L={cc|name}]
```

### Description:

Change or display message deletion and format specifications.

**CON=Y or N** Request(Y) or cancel(N) conversational message deletion.

**REF** Display the current specification values in the entry area in CONTROL command format.

**SEG=nn** Change the number of lines(nn) to be included in the segment of messages to be deleted when a CONTROL E,SEG command is issued.

**DEL=Y** All flagged messages are removed from the screen whenever the screen becomes full.

**DEL=N** All messages must be moved manually.

**DEL=R** Roll mode goes into effect. A specified number of messages (set by RNUM) roll off the screen each specified interval (set by RTME).

**DEL=RD** Same as DEL=R, except action messages accumulate at the top of the screen.

**DEL=W** New messages overlay older ones when the screen is full.

**RNUM=nn** The number of lines in the message roll.

**RTME=nnn** The time interval in seconds between message rolls.

### MFORM=(option[,option] ...)

Change the format of messages sent to a console. You can request that each message appear with a time stamp(T), the name of the system that issues the message(S), the job name or ID of its issuer(J), or none of the above(M).

### L=cc or name

The console this command is to affect.

```
K T[,REF] [,L={cc }]
  |
  | [,UTME=nnn] {name}
```

### Description:

Change or display time intervals for dynamic displays.

**REF** Display the current value of the time interval in the entry area in CONTROL command form.

**UTME** Change the time interval for updating status displays (in seconds).

### L=cc or name

The console where the time interval updating is to occur.

```
K V[,REF] [,L={cc }]
  |
  | [,USE={FC|SD|MS}] [,CMSYS={sysname[_]}]
```

## CONTROL Command

```
K V[,REF] [,L={cc }]
    |
    |,LEVEL=(type[,type]...)
```

**Description:**

Change the operating mode or message levels of a console.

**USE** Change the console to full-capability mode (FC), to output-only for presentation of status display (SD), or to output-only for presentation of messages other than status displays (MS).

**REF** Display the current COMMAND V operand values.

**L=cc or name** The console where the specified action is to take place.

**LEVEL=(type[,type] ...)** Change the message levels for the console. The following are the valid message types that can be displayed: CE (critical eventual action), E (eventual action), I (immediate action), IN (informational), R (WTOR), ALL (including broadcast messages), NB (broadcast messages are NOT displayed), and UNCOND (executes the command even if it means some messages will not be assigned a console).

**CMDSYS** Indicate the system where all commands will be sent for processing.

\* The system where you issue the command.  
\_

## DEVSERV Command

### DEVSERV Command (DS)

DEVSERV or DS		
<pre>DS {PATHS P},[/]devnum[,nn][,ONLINE],ON  ][,NOSYM ,NOS][,DUMP] {SMS S }  ,OFFLINE ,OFF  [,L={a cc cca}]  {QDASD   QD}{,?    [ [ [,ccuu [,1]   ,VOL=volser ] [ [,UCB] [,DCE][,SSSCB] [,DPCT] [ [,NOIO]   [,RDC] [,RCD] [,SNS] ] ] ]   ,ccuu,nnn   [,ccuu,nnn] ,VOL=volser   ,MACH=[mmp-sssss   XXX-sssss]   ,SSID=[ssid   ALL]   ,TYPE=[type   ALL] ] [,ONLINE] [,OFFLINE] [,DEFINED] [,CHKFAIL] [,VALIDATE] [,TOTALCYL]  {QTAPE   QT}{,?    [ [ [,ccuu [,1] ] [ [,UCB] [,DCE][ [,NOIO]   [,RDC] [,RCD] ] ] ]   ,ccuu,nnn   [,ccuu,nnn] ,LIB=libid   ALL   ,MACH=[mmp-sssss   XXX-sssss]   ,TYPE=[type   ALL] ] [,ONLINE] [,OFFLINE] [,DEFINED]</pre>		
<b>Description:</b>	Display the status of DASD or tape devices.	
<b>PATHS or P</b>	Display (in message IEE459I) the status of specified devices. This does not show any SMS information such as volume or storage group status.	
<b>SMS or S</b>	Display (in message IGD001I) the volume and storage group status of specified device(s) managed by SMS.	
<b>[/]devnum</b>	Device number of the device for which the system is to display information.	
<b>nn</b>	Number of devices (from 1 to 32) for which the system is to display the information in ascending order beginning with the device that you specify.	
<b>ONLINE or ON and OFFLINE or OFF</b>	Signal to display information only about those devices that are online or offline, depending on which is specified. If unspecified, the display will contain both.	
<b>NOSYM or NOS</b>	Signal not to display the definitions of the symbols with message IEE459I.	
<b>DUMP</b>	Request to take an SVC dump after executing the DEVSERV PATHS command.	
<b>L=a, cc, cca, name, name-a</b>	The display area (a), console (cc), both (cca), console name (name), or both (name-a), where the display is to appear.	

## DEVSERV Command

<b>QDASD</b>	Display selected information about specified DASD devices and storage control units.
<b>?</b>	Request to view online help text.
<b>ccuu</b>	Number of the DASD device you are querying.
<b>nnn</b>	Number of DASD devices or units to query.
<b>VOL=volser</b>	Serial number of the online volume whose information DEVSERV is to display.
<b>MACH=mmpp-sssss   XXXX-sssss</b>	Serial number of the DASD device or storage control unit whose information DEVSERV is to display.
<b>SSID=ssid   ALL</b>	Identifying number of the subsystem whose information DEVSERV is to display.
<b>TYPE=type   ALL</b>	Type of DASD or storage control unit whose information DEVSERV is to display.
<b>ONLINE or ON and OFFLINE or OFF</b>	Signal to display information only about those devices that are online or offline, depending on which is specified. If unspecified, the display will contain both.
<b>DEFINED</b>	DASD units (whose information DEVSERV is to display) defined to the system.
<b>CHKFAIL</b>	Information about devices with inconsistent definitions.
<b>VALIDATE</b>	Information inconsistent between device definitions and data acquired directly from the devices.
<b>TOTALCYL</b>	Accumulated total capacity of all accessible devices.
<b>NOIO</b>	Signal to prevent I/O operations; allows a display only of storage resident information.
<b>QTAPE</b>	Display selected information about specified tape devices and tape control units.
<b>?</b>	Request to view online help text.
<b>ccuu</b>	Number of the tape device you are querying.
<b>nnn</b>	Number of tape devices or units to query.
<b>LIB=libid   ALL</b>	Library containing the volumes whose information DEVSERV is to display.
<b>MACH=mmpp-sssss</b>	Serial number of the tape control unit or tape device whose information DEVSERV is to display.
<b>TYPE=type   ALL</b>	Type of tape or control unit whose information DEVSERV is to display.
<b>ONLINE or ON and OFFLINE or OFF</b>	Signal to display information only about those devices that are online or offline, depending on which is specified. If unspecified, the display will contain both.
<b>DEFINED</b>	Tape units (whose information DEVSERV is to display) defined to the system.
<b>NOIO</b>	Signal to prevent I/O operations; allows a display only of storage resident information.

## DISPLAY Command

### DISPLAY Command (D)

DISPLAY or D APPC	
<pre>D APPC, {TP[,SUMMARY SUM S] [, {ASID A}=asid] }       {  ,LIST ,L      [,ASNAME=asname] }       {  ,ALL ,A      [,DIR=IN OUT] }       {                [,IT=sssss[.ttt]] }       {                [,LLUN=lluname] }       {                [,LTPN=ltpname] }       {                [,PNET=pnetid] }       {                [,PLUN=pluname] }       {                [,PTPN=ptpname] }       {                [,SCHED={schedname}] }       {                { *NONE* } }       {                [,STPN=stpname] }       {                [,USERID=userid] }       { }       {UR[,SUMMARY SUM S] [,URID=urid] }       {  ,LIST ,L      [,LUWID=luid] }       {  ,ALL ,A      [,PNET=pnetid] }       {                [,PLUN=pluname] }       {                [,LLUN=lluname] }       { }       {SERVER[,SUMMARY SUM S] [, {ASID A}=asid] }       {  ,LIST ,L      [,ASNAME=asname] }       {  ,ALL ,A      [,LLUN=lluname] }       {                [,STPN=stpname] }       { }       {LU[,SUMMARY SUM S] [,LLUN=lluname] }       {  ,LIST L      [,PNET=pnetid] }       {                [,PLUN=pluname] }       {  ,ALL A      [,SCHED={schedname}] }       {                { *NONE* } }       { }</pre>	
[,L={a cc cca name name-a}]	
<b>Description:</b>	
Display APPC configuration information.	
<b>TP</b>	The system is to display information about the transaction program or server.
<b>LU</b>	The system is to display information about the logical unit.
<b>SERVER</b>	The system is to display information about APPC/MVS servers and the allocate queues they serve.

## DISPLAY Command

**SUMMARY** *or* **SUM** *or* **S**

The system is to use the SUMMARY form of output.

**LIST** *or* **L** The system is to use the LIST form of output.

**ALL** *or* **A** The system is to use the ALL form of output.

**ASID=asid** *or* **A=asid**

The address space identifier of the local transaction program.

**DIR= {IN *or* OUT}**

The direction of the conversation.

**IT=sssss[.ttt]**

The idle time of the conversation, in seconds.

**LLUN=lluname**

The local logical unit name.

**LTPN=ltpname**

The local transaction program name.

**USERID=userid**

The userid of the transaction program that is running due to an allocate request.

**ASNAME=asname**

The address space name of the transaction program or server.

**PLUN=pluname**

The partner logical unit name.

**PTPN=ptpname**

The partner transaction program name.

**SCHED=schedname** *or* **\*NONE\***

The transaction scheduler name. *or* \*NONE\*.

**STPN=stpname**

The name of the served transaction program.

**L=a, cc, cca, name, *or* name-a**

Specify the display area (a), console (cc), both (cca), console name (name), or both (name-a) where the display will appear.

## DISPLAY Command

### DISPLAY or D ASCH

```
D ASCH{ [,SUMMARY|,SUM|,S ] [, {ASID|A}=asid          }
  { [,LIST|,L          [, {CLASS|C}=classname] }
  { [,ALL|,A          [,LTPN=ltpname] }
  {          [,QT=sssss[.ttt]] }
  {          [,TPST=schedtype] }
  {          [,USERID=userid] }
```

[,L={a|cc|cca|name|name-a}]

#### Description:

Display ASCH configuration information.

#### **SUMMARY or SUM or S**

The system is to use the SUMMARY form of output.

#### **LIST or L**

The system is to use the LIST form of output.

#### **ALL or A**

The system is to use the ALL form of output.

#### **ASID=asid or A=asid**

The address space identifier of the local transaction program.

#### **CLASS=classname or C=classname**

The name of the APPC transaction scheduler class.

#### **LTPN=ltpname**

The local transaction program name

#### **USERID=userid**

The userid of the transaction program that is running due to an allocate request.

#### **QT=sssss[.ttt]**

The queue time, in seconds, of a local transaction program waiting for initiation.

#### **TPST=schedtype**

The transaction program schedule type.

#### **L=a, cc, cca, name, or name-a**

Specify the display area (a), console (cc), both (cca), console name (name), or both (name-a) where the display will appear.

## DISPLAY Command

### DISPLAY or D ASM

```
D ASM[,PLPA  
      |,COMMON  
      |,DUPLEX  
      |,LOCAL  
      |,ALL  
      |,PAGE=[dsname|ALL]  
      |,SWAP=[dsname|ALL]  
      |,PAGEDEL
```

[,L={a|cc|cca|name|name-a}]

**Description:**

Display page and swap data set information.

**PLPA** Display information about the PLPA page data set.

**COMMON** Display information about the common page data set.

**DUPLEX** Display information about the duplex page data set.

**LOCAL** Display information about all local page data sets.

**ALL** Display information about all page and swap data sets, and the processing status of the PAGEDEL command.

**PAGE** Display information about a single page data set (dsname) or ALL page data sets.

**SWAP** Display information about a single swap data set (dsname) or ALL swap data sets.

**PAGEDEL** Display information about the PAGEDEL command. When the PAGEDEL command is waiting for jobs to be swapped in, a list of jobname(s) delaying the PAGEDEL command is displayed.

**L=a, cc, cca, name, or name-a**

Specify the display area (a), console (cc), both (cca), console name (name), or both (name-a) where the display will appear.

### DISPLAY or D C

```
D C,K[,L={a|cc|cca|name|name-a}]
```

**Description:**

**C,K** Display a summary of CONTROL command operands.

**L=a, cc, cca, name, or name-a**

The display area (a), console (cc), both (cca), console name (name), or both (name-a) where the display of a summary of CONTROL command operands will appear.

## DISPLAY Command

### DISPLAY or D CF

D CF[,CFNAME={(cfname[,cfname]...)}]

**Description:**

**CF** Display information about the coupling facilities that are attached to the system.

**CFNAME=** or **CFNM=** *cfname*

Display information for one or more named coupling facilities.

### DISPLAY or D CONGRP

D CONGRP[, {GROUP|G} [= (name[,name]...)] [, L={a|cc|cca|name|name-a}]]

**Description:**

Display console group definitions in effect for the sysplex.

**CONGRP** The system is to display information about the console groups currently defined to the system or sysplex. If you specify this keyword alone, the system outputs all the group names associated with each group.

**GROUP** or **G**

The system is to display information on specific console groups. If GROUP is the last keyword in the command, then the system will display only the names of the active groups.

**name** The groups about which to display information.

**L=a, cc, cca, name, or name-a**

The display area (a), console (cc), both (cca), console name (name), or both (name-a) where the display will appear.

## DISPLAY Command

### DISPLAY or D CONSOLES or C

```

D {CONSOLES},{{ACTIVE|A }[,CA={name          }][,ROUT={NONE|ALL|rr }]}
{C      } {{SS      } {name[,name]...} {(rr-ss)      } }
          {{NACTIVE|N}[MSTR]          {(rr[,ss]...)} }
          {                                     [,SYS=system name] }
          {                                     }
          {KEY[=key]                          }
          {                                     }
          {{BACKLOG|B}                        }
          {                                     }
          {{MASTER|M}[,SYS=system name]      }
          {                                     }
          {{MCONLY}                           }
          {                                     }
          {*                                   }
          {                                     }
          {{LIST|L}                           }
          {                                     }
          {{HARDCOPY|HC}[,SYS=system name]   }
          {                                     }
          {CN={xx          }[,ROUT={NONE|ALL|rr }]}
          { {(xx[,yy]...)} {(rr-ss)      } }
          { {(xx-yy)      } {(rr[,ss]...)} }
          {                                     [,SYS=system name] }
          {                                     }
          {HCONLY                             }
          {                                     }
          {U={{[/]devnum1[,[/]devnum2]...}} }
          { {{[/]lowdevnum-[/]highdevnum}} }
          { {[/]devnum      } }
          {MSTR[,SYS=system name]            }

```

[,L={a|cc|cca|name|name-a}]

#### Description:

Display console status information.

**ACTIVE or A** Display the status of all active MCS consoles.

#### NACTIVE or N

Display the status of all inactive MCS consoles.

**SS** Display the status of all subsystem-allocatable consoles.

**KEY** Display a list of available class names or active operators in specified console class (key)

**CN** Display the status of a single console, list of consoles, or range of consoles, all identified by their console id or name.

## DISPLAY Command

<b>U</b>	Display the status of a single console, list of consoles, or range of consoles, each identified by a device number.
<b>CA</b>	Display console/system association list or specified console name ( <i>name</i> ) to match keyword, ACTIVE or NACTIVE.
<b>ROUT</b>	Display the status of all consoles that receive messages by the specified routing code, list of codes, or range of codes. NONE displays the status of all consoles to which no messages are routed by routing code. ALL displays all those consoles that accept messages by routing codes.
<b>BACKLOG</b> or <b>B</b>	Display the status of all consoles with a message backlog.
<b>MASTER</b> or <b>M</b>	Display the status of the master and pseudo-master consoles.
<b>MCONLY</b>	Display the status of the current master console, if any.
<b>*</b>	Display the status of the console that issues the DISPLAY.
<b>LIST</b> or <b>L</b>	Display the status of all consoles defined to the sysplex.
<b>HCONLY</b>	Display information on messages in the hardcopy message set that are not directed to any console.
<b>HARDCOPY</b> or <b>HC</b>	Display information about the hardcopy message set or the hardcopy medium.
<b>L=a, cc, cca, name</b> or <b>name-a</b>	The display area (a), console (cc), both (cca), console name (name), or both (name-a) where the display will appear.

<b>DISPLAY</b> or <b>D DLF</b>	
D DLF[,RES={{(qname *} [,rname ,*])}][,HEX]	
[,L={a cc cca name name-a}]	
<b>Description:</b>	
Display a list of major names or resource information for the specified resource(s).	
<b>RES=(qname,[rname])</b>	
The major name (qname), required, and minor name (rname), optional, of the specified resource. An asterisk at the end of a name tells the system to include all names that match the portion of the name given before the asterisk. A single asterisk means to include all resources. If either name contains hexadecimal values or a single quote specify the name in hexadecimal form as X'qname' or X'rname'.	
<b>HEX</b>	Display resource information in hexadecimal as well as EBCDIC.
<b>L=a, cc, cca, name</b> or <b>name-a</b>	The display area (a), console (cc), both (cca), console name (name), or both (name-a) where the display will appear.

## DISPLAY Command

### DISPLAY or D DMN

D DMN[=domainnum] [,L={a|cc|cca|name|name-a}]

**Description:**

Display the domain description table or a specific table entry (*domainnum* from 2 to 129).

**DMN[=domainnum]**

The domain description table to display (message IEE796I).

**L=a, cc, cca, name or name-a**

The display area (a), console (cc), both (cca), console name (name), or both (name-a) where the display will appear.

**Note:** Not valid on systems operating in workload management goal mode.

## DISPLAY Command

DISPLAY or D DUMP	
D {DUMP},{{STATUS ST S}}	}
{D }	{ }
	{{OPTIONS O}}
	{ }
	{{TITLE T }},{,AUTODSN={aaa ALL}}
	{{ERRDATA ER E}{ }
	{ ,DSN={ALL (ALL) }
	{ {nn (nn[,nn]...)} }
	{ {nn-nn (nn-nn[,nn-nn]...)} }
	{ {nn[,nn]...[,nn-nn[,nn-nn]...]} }
	{ }
	{ ,DUMPID={xxx (yyy[,zzz]...)} }
	{ {aaa-bbb (aaa-bbb[,ccc-ddd]...)} }
	{ {yyy[,zzz]...[,aaa-bbb[,ccc-ddd]...]} }
[,L={a cc cca name name-a}]	
<b>Description:</b>	
Display the dump options or dump data set status.	
<b>STATUS or ST or S</b>	
Display a summary of the full or available status of each defined SYS1.DUMP data set.	
<b>OPTIONS or O</b>	
Display the dump mode and options in effect for the SDUMP, SYSABEND, SYSUDUMP, and SYSMDUMP dump types.	
<b>TITLE or T</b>	
Display the dump title and time of dump for each full direct access dump that you specify in the DSN parameter.	
<b>ERRDATA or ER or E</b>	
Display error data for each full direct access data set specified in the DSN parameter.	
<b>AUTODSN=</b>	
Display requested dump information about dump data sets most recently allocated.	
<b>DSN=</b>	
Specify one or more single data sets, one or more ranges of data sets, or all data sets. For all specifications, <b>nn</b> has a range of 00-99.	
<b>DUMPID=</b>	
Specify the 3-character dump identifier for a captured dump. You can specify more than one dump (xxx[zzz,...]) or a sequential series ([aaa-ddd]).	
<b>L=a, cc, cca, name or name-a</b>	
The display area (a), console (cc), both (cca), console name (name), or both (name-a) where the display will appear.	

## DISPLAY Command

### DISPLAY or D EMCS

```
D EMCS, {SUMMARY|S }
        {INFO|I }
        {FULL|F }
        { }
        {STATUS=A|N|L|B[({nn})]|ERR }
        {ST }
        { }
        {CN=consname|* }
        { }
        {SYS=sysname|* }
        { }
        {KEY=keyname|* }
        { }
        {AUTH={ANY }
        { {MASTER }
        { {SYS }
        { {IO }
        { {CONS }
        { {ALL }
        { {INFO }
        { {SYSONLY }
        { {IOONLY }
        { {CONSONLY }
        { {ALLONLY }
        { {INFOONLY }
        { }
        {ATTR={ANY }
        { {YES }
        { {ROUT }
        { {UD(YES|NO) }
        { {HC }
        { {AUTO(YES|NO) }
        { {MN }
        { {NONE }
        { }
        {DOM={ANY }
        { {NORMAL }
        { {ALL }
        { {NONE }
        { {YES }
```

[,L={a|cc|cca|name|name-a}]

## DISPLAY Command

### Description:

Display information about extended MCS (EMCS) consoles.

### SUMMARY or S

Display only the numbers and names for the consoles that meet the criteria.

### INFO or I

Display all console information, except statistics on the console's message data space, for the consoles that meet the criteria.

### FULL or F

Display all available information about the consoles that meet the criteria. Message data space statistics can only be displayed for consoles that are active on the system where the command is processed.

The following keyword parameters define the criteria used to limit the number of consoles displayed:

### STATUS|ST=A|N|L|B[(nn)]|ERR

The system is to display information about EMCS consoles according to console status:

**A** All EMCS consoles that are active.

**N** All EMCS consoles that are not active.

**L** Both active and inactive EMCS consoles.

**B[(nn)]** All consoles with a backlog of more than *nn* unretrieved delivered messages, where *nn* is a number from 1 to 999999. If you omit *nn*, the default is 10 unretrieved messages. Backlog information can only be displayed for consoles attached to the system that processes the command.

**ERR** All consoles in an error state, such as consoles with queueing suspended. Error state information can only be displayed for consoles attached to the system that processes the command.

**Note:** Specifying B or ERR on STATUS forces the amount of information to be FULL.

### CN=consname

Display information according to console name. You can specify wildcard characters (\* and ?) in the console name.

CN=\* is a special case because \* is not a wildcard character. CN=\* means that the system is to display information about this console, the console you are using to enter the command.

**Note:** Specifying CN=\*, or a console name with no wildcard characters, automatically forces STATUS=L.

### SYS=sysname

Display information about any consoles that (1) are active or eligible for activation on the system you name and (2) match the other specified parameters. A system name can be from 1 to 8 characters. You can specify wildcard characters (\* and ?). The default is SYS=\*, which matches all system names.

### KEY=keyname

The system is to display information according to console key name, where *keyname* is the name your installation has assigned to a console group. (See *OS/390 MVS Planning: Operations* for more information.) The name can be from 1 to 8 characters. You can specify wildcard characters (\* and ?). The default is KEY=\*, which matches all console class names.

## DISPLAY Command

<b>AUTH=</b>	<p>Display information about consoles with a specific which may be one of the following:</p> <p><b>ANY</b> Consoles with any authority.</p> <p><b>MASTER</b> Consoles with MASTER authority.</p> <p><b>SYS</b> Consoles with at least SYS authority (meaning MASTER authority, SYS authority alone, or SYS combined with IO or CONS or both).</p> <p><b>IO</b> Consoles with at least IO authority.</p> <p><b>CONS</b> Consoles with at least CONS authority.</p> <p><b>ALL</b> Consoles with at least ALL authority (SYS, IO, and CONS).</p> <p><b>INFO</b> Consoles with at least INFO authority.</p> <p><b>SYSONLY</b> Consoles with SYS authority only (not MASTER, CONS, or IO).</p> <p><b>IOONLY</b> Consoles with IO authority only.</p> <p><b>CONSONLY</b> Consoles with CONS authority only.</p> <p><b>ALLONLY</b> Consoles with ALL authority only (meaning consoles with SYS, IO, and CONS authority, but not MASTER authority).</p> <p><b>INFOONLY</b> Consoles with INFO authority only.</p>
<b>ATTR=</b>	<p>The system is to display information about EMCS consoles that receive messages with a specific routing attribute, which may be one of the following:</p> <p><b>ANY</b> Any consoles, regardless of routing attributes.</p> <p><b>YES</b> Consoles that receive some type of unsolicited messages (either routing codes, UD messages, hardcopy messages, AUTO(YES) messages, or MONITOR messages.)</p> <p><b>ROUT</b> Consoles that receive any routing codes.</p> <p><b>UD[(YES NO)]</b> Consoles that are or are not receiving UD messages. The default is YES.</p> <p><b>HC</b> Consoles receiving the hardcopy message set.</p> <p><b>AUTO[(YES NO)]</b> Consoles that are or are not receiving AUTO(YES) messages. The default is YES.</p> <p><b>MN</b> Consoles receiving any type of MONITOR messages.</p> <p><b>NONE</b> Consoles with no routing attributes.</p>
<b>DOM=</b>	<p>The system is to display information about EMCS consoles according to specific DOM attributes.</p> <p><b>ANY</b> Any consoles, regardless of DOM attributes.</p> <p><b>NORMAL</b> Only consoles defined with DOM(NORMAL).</p> <p><b>ALL</b> Only consoles defined with DOM(ALL).</p> <p><b>NONE</b> Only consoles defined with DOM(NONE).</p> <p><b>YES</b> Consoles defined with either DOM(ALL) or DOM(NORMAL).</p>
<b>L={a cc cca name name-a}</b>	<p>Specifies the display area (<i>a</i>), console (<i>cc</i>), both (<i>cca</i>), console name (<i>name</i>), or both (<i>name-a</i>) where the system is to present the display. For <i>cc</i>, you must specify a decimal number from 1 to 99.</p> <p>If you omit this operand, the system presents the display in the first available display area or the message area of the console through which you enter the command (unless routing instructions are in effect; see the MSGRT command later in this chapter).</p>

## DISPLAY Command

DISPLAY or D ETR	
D ETR[,DATA] [,L={a cc cca name name-a}]	
<b>Description:</b> Display current External Timer Reference synchronization.	
<b>DATA</b>	Display status of each ETR port including ETR network ID, port number, and ETR ID.
<b>L = a, cc, cca, name or name-a</b>	The display area (a), console (cc), both (cca), console name (name), or both (name-a) where the display will appear.

DISPLAY or D GRS	
<pre> D GRS{[,SYSTEM LINK ALL A DELAY D SUSPEND S][,CONTENTION C]   {     [,RES=(qname *[,rname ,*)] [,HEX] [,DEV=[/]devnum] [, {SUSPEND S}]]     [,RNL={CONVERSION CON C}]     {       {ALL A}     }     {       {EXCLUSION EXCL E}     }     {       {INCLUSION INCL I}     }   }   {,{CONTENTION C}[,ENQ]}   {     [,LATCH[, {JOBNAME JOB}=jobname]] [,HEX]}   }   {,LATCH{[, {JOBNAME JOB}=jobname[,CONTENTION C]} [,HEX]}   {     {,{CONTENTION C}   } } </pre>	
[,L={a cc cca name name-a}]	
<b>Description:</b> Display global resource serialization (GRS) information.	
<b>SYSTEM</b>	Display system information such as system names and states or communication status of each system in the GRS complex.
<b>LINK</b>	Display CTC link information including the device number of each CTC link, its status, and the system name of the system that last responded to the opposite end of the link.
<b>ALL or A</b>	Display system information, CTC link information, resource contention information, the contents of all RNLs for the current GRS, latch contention information, and ENQ contention information.
<b>CONTENTION or C</b>	Display resource contention information for the current GRS.
<b>DELAY</b>	Display jobname, ASID, resources held or waiting, and job termination information.
<b>DEV=[/]devnum</b>	Display a list of non-converted RESERVE requests for the device with device number <i>devnum</i> .
<b>ENQ</b>	Display resource contention information for ENQs and RESERVEs. If you specify ENQ, you must also specify CONTENTION.
<b>JOBNAME or JOB</b>	Display latch information for a particular job. If you specify JOBNAME, you must also specify LATCH.

## DISPLAY Command

**LATCH or L** Display latch information. If you specify LATCH, you must also specify CONTENTION, JOBNAME or both.

**SUSPEND or S**

Display jobname, ASID and resources the job is waiting for.

**RNL=CONVERSION, CON or C**

Display the contents of the RESERVE conversion RNL.

**RNL=ALL or A**

Display the contents of all RNLs.

**RNL=EXCLUSION, EXCL or E**

Display the contents of the SYSTEMS exclusion RNL.

**RNL=INCLUSION, INCL or I**

Display the contents of the SYSTEM inclusion RNL.

**RES=(qname,[rname])**

Display a list of major names or resource information for the specified resource(s). The major name(qname) must be included, but the minor name(rname) is optional. An asterisk at the end of a name tells the system to include all names that match the portion of the name given before the asterisk. A single asterisk means to include all resources. If either name contains hexadecimal values or a single quote specify the name in hexadecimal form as X'qname' or X'rname'.

**HEX**

Display resource information in hexadecimal as well as EBCDIC.

**L=a, cc, cca, name, name-a**

The display area (a), console (cc), both (cca), console name (name), or both (name-a), where the display will appear.

### DISPLAY or D IOS

D IOS,CONFIG[(EDT)|(HSA)|(ALL)]

[,L={a|cc|cca|name|name-a}]

**Description:**

Display IOS-related configuration information.

**HSA** Display the amount of HSA that is available to perform configuration changes.

**ALL** Display information about the I/O configuration and the amount of HSA that is available to perform configuration changes.

**L = a, cc, cca, name or name-a**

The display area (a), console (cc), both (cca), console name (name), or both (name-a) where the display will appear.

## DISPLAY Command

```
D IOS,MIH[,TIME={ALL|option}
[
  [, {DEV }={{[/]devnum[,[/]devnum1}...} ]
  [ {DEVX } {{[/]devnum-[/]devnum1[,[/]devnum2-[/]devnum3}...} ]
  [ {TDEV } ]
  [ {TDEVX} ]
]
```

[,L={a|cc|cca|name|name-a}]

### Description:

Display MIH time intervals.

**TIME=ALL** Display the MIH (missing interrupt handler) time intervals for all device classes.

### TIME=option

Specify the device class.

### DEV=[/]devnum

Display the MIH time interval for a device or a range of devices. The display is formatted.

### DEVX=[/]devnum

Same as DEV=, except the display is unformatted.

### TDEV=[/]devnum

Display the I/O timing limit for a device or a range of devices. The display is formatted.

### TDEVX=[/]devnum

Same as TDEV=, except the display is unformatted.

### L=a, cc, cca, name, or name-a

The display area (a), console (cc), both (cca), console name (name), or both (name-a) where the display will appear.

```
D IOS,STOP[,L={a|cc|cca|name|name-a}]
```

### Description:

Display information about the devices affected by the IOACTION STOP command.

### L = a, cc, cca, name or name-a

The display area (a), console (cc), both (cca), console name (name), or both (name-a) where the display will appear.

## DISPLAY Command

### DISPLAY or D IPLINFO

```
D IPLINFO [,L={a|cc|cca|name|name-a}]
```

#### Description:

Display the following information about the initial program loading (IPL) of the system:

- The date and time of the IPL
- The release level of the system
- The contents of parmlib members IEASYSxx and IEASYMxx
- LOADxx information used for the IPL

#### L=a, cc, cca, name or name-a

The display area (a), console (cc), both (cca), console name (name), or both (name-a) where the display will appear.

### DISPLAY or D JOBS

```
D {JOBS|J}[,,{LIST|L},[USERID=userid]]
  {A|TS } |,{ALL|A}
           |,{jobname[.identifier]}{(jobname)}
```

```
[,L={a|cc|cca|name|name-a}]
```

#### Description:

Display system activity information.

#### JOBS or J or TS or A

Display overview information about system activity, such as the number of active batch jobs or logged-on users. The format of what is displayed is dependent on the workload management mode in effect on a system.

**LIST or L** Display detailed information for active jobs and started tasks (JOBS or J), logged-on time-sharing users (TS), or both (A).

**ALL or A** Display more detailed information than that supplied by LIST.

#### jobname[.identifier] or (jobname)

Display detailed information for the item with the specified name. This could be the name of the job, started task, time-sharing user, APPC/MVS transaction program, initiator, or system address space. Enclose the name in parentheses if it is the same as a valid secondary operand. You may include an asterisk at the end of the name to specify all names beginning with the given characters.

#### USERID=userid

A filter to show only the work running on behalf of **userid**.

#### L=a, cc, cca, name or name-a

The display area (a), console (cc), both (cca), console name (name), or both (name-a) where the display will appear.

## DISPLAY Command

DISPLAY or D LOGGER
<pre> D LOGGER[,Status            [,Connection[,LSName=logstreamname[[,Jobname=mvsjobname][,SUMM ]] ] ]                                      [,Detail]             ,Jobname=mvsjobname[[,LSName=logstreamname][,SUMM ]]                                      [,Detail]             ,SYSPLEX[,LSName=logstreamname]             ,DASDONLY            [,Logstream[,LSName=logstreamname][,STRName=structurename]                                       ,DASDONLY            [,STRucture[,STRName=structurename]                                      ] </pre>
<p><b>Description:</b> Display the status of the system logger, individual log streams, or log streams from a sysplex view.</p>
<p><b>STATUS or ST</b> Display the current operational status of the system logger. STATUS is the default parameter.</p> <p><b>CONNECTION or CONN or C</b> Display all log streams with one or more connections for the system(s) on which the command was issued.</p> <p><b>LSNAME or LSN = logstreamname</b> This filter displays all actively connected log streams matching the specified log stream name.</p> <p><b>JOBNAME or JOB or J = mvsjobname</b> This filter displays all log streams with one or more connections to which the specified jobname is connected.</p> <p><b>SUMM or S, or DETAIL or D</b> These two mutually exclusive parameters are valid only when preceded by the LSNAME or JOBNAME parameter (or both). SUMM displays a condensed overview and is the default value. DETAIL displays a more detailed report.</p> <p><b>SYSPLEX</b> This filter changes the view of the output from a system view to a sysplex view showing systems and resources connected to a log stream.</p> <p><b>DASDONLY</b> This filter requests a display of all log streams with a DASDONLY configuration.</p> <p><b>LOGSTREAM or L</b> Display log stream sysplex information.</p> <p><b>LSNAME or LSN = logstreamname</b> This filter displays all defined log streams matching the specified log stream name.</p> <p><b>STRNAME or STRN = structurename</b> This filter displays all log streams on the sysplex that are defined to a structure that matches the specified structure name.</p> <p><b>DASDONLY</b> This filter displays all log streams matching other filters with a DASDONLY configuration.</p> <p><b>STRUCTURE or STR</b> Display all log streams defined to a structure on a sysplex, sorted by structure name.</p> <p><b>STRNAME or STRN = structurename</b> This filter displays all defined log streams (sorted by structure name) on the sysplex matching the specified structure name.</p>

## DISPLAY Command

### DISPLAY or D LOGREC

```
D LOGREC[, {CURRENT|CURR} | {DATASET|DSN} | {ALL|A}]  
      [,L={a|cc|cca|name|name-a}]
```

**Description:**

Display logrec error and environmental record recording medium.

**CURRENT or CURR**

Display the current logrec medium.

**DSN**

Display the logrec data set name and status.

**ALL or A**

Display all, both current and alternate, logrec medium and data set names and status.

**L=a,cc,cca,name or name-a**

The display area (a), console (cc), both (cca), console name (name), or both (name-a) where the display will appear.

## DISPLAY Command

DISPLAY or D M	
<pre> D M[=CHP[(xx) (xx-xx) (list)]    =CONFIG[(xx)]    ={CPUID CPU}[(x) (list)]    ={DEVICE DEV}[([/]devnum) ([/]lowdevnum-[/]highdevnum) (list)]    =ESTOR[(ddddM-ddddM) (list) (E[id])]    =HIGH    =HSA    =SIDE[(id)]    ={STORAGE STOR}[(ddddM-ddddM) (list) (E[id])]    =(parm[,parm]...) </pre>	
<p>[,L={a cc cca name name-a}]</p>	
<p><b>Description:</b> Display system configuration information.</p>	
<b>CHP</b>	Display the online/offline status of a single channel path(xx), a range of paths(xx-xx), or a combination thereof(list). The identifiers have a range of 0-FF.
<b>CONFIG[(xx)]</b>	Display the differences between the current configuration and the configuration described in member CONFIGxx of SYS1.PARMLIB. The default for xx is 00.
<b>CPU or CPUID</b>	Display the online/offline status of a single processor and Vector Facility(x) or a list with each processor separated by a comma(list).
<b>DEV or DEVICE</b>	Display the number of online channel paths to a single device, <i>devnum</i> , a range of devices, <i>lowdevnum-highdevnum</i> , or a list of devices and ranges in any combination.
<b>ESTOR</b>	Display the number of megabytes of expanded storage assigned and available to the system, including online expanded storage, expanded storage waiting to go offline, bad expanded storage, offline expanded storage, expanded storage elements, and expanded storage that belongs to another configuration, for a range(ddddM-ddddM) or list of ranges(list) of addresses of expanded storage. <i>E=id</i> displays the amount of storage in the expanded storage element and identifies whether it is online or offline.
<b>HIGH</b>	Display the highest possible central storage and expanded storage addresses in decimal M bytes (megabytes).
<b>HSA</b>	Display the starting address and length of each portion of the hardware system area (HSA).
<b>SIDE[(id)]</b>	Display the resources installed in side <i>id</i> .
<b>STOR or STORAGE</b>	Display the status of central storage for a range (ddddM-ddddM) or list of ranges (list) of addresses or a specific storage element (E[id]). *SHARED* indicates that the data is shared through the use of the IARVSERV macro.
<b>(parm[,parm] ...)</b>	Display the status of each resource you specify as <i>parm</i> . The list of <i>parms</i> you specify can include any combination of CHP, CPU, DEV, HIGH, HSA, ESTOR, STOR(E[id]), and STOR.
<b>L=a, cc, cca, name, or name-a</b>	The display area (a), console (cc), both (cca), console name (name), or both (name-a) where the display will appear.

## DISPLAY Command

### DISPLAY or D MMS

```
D MMS[,L={a|cc|cca|name|name-a}]
```

**Description:**

Specify the status of MVS message service and a list of languages available.

**L = a, cc, cca, name or name-a**

The display area (a), console (cc), both (cca), console name (name), or both (name-a) where the display will appear.

### DISPLAY or D MPF

```
D MPF[, {MSG|M} ]  
      |, {COLOR|C}  
      |, CMD
```

```
[,L={a|cc|cca|name|name-a}]
```

**Description:**

Display information about message processing and presentation.

**MSG or M** Display information on all messages that are defined in the current MPFLSTxx member or members.

**COLOR or C** Display the color, intensity, and highlighting options in effect.

**CMD** Display the status of the installation exit routines.

**L=a, cc, cca, name or name-a**

The display area (a), console (cc), both (cca), console name (name), or both (name-a) where the display will appear.

## DISPLAY Command

DISPLAY or D OMVS
<pre>D OMVS[{,SUMMARY S} ]        ,{ASID A}=ALL        ,{ASID A}=asid        ,U=userid        ,{PID}=processid        ,{FILE F}        ,{VSERVER V}        ,{CAPS C}        ,{OPTIONS O}  [,L={a cc cca name name-a}]</pre>
<b>Description:</b> Display information about OpenMVS.
<b>SUMMARY or S</b> Display the status of OpenMVS processes, file systems, and servers (for example, active or terminating) and the BPXPRMxx parmlib member specified on the START OMVS command.
<b>ASID=ALL or A=ALL</b> Display process information for all OpenMVS address spaces.
<b>ASID=asid or A=asid</b> Display process information for the specified hexadecimal address space ID (ASID). If the specified ASID is not an OpenMVS address space, an error message is issued.
<b>U=userid</b> Display process information for all processes associated with
<b>FILE or F</b> Display a list of HFS file systems that OpenMVS is currently using and the status of each HFS. the specified TSO/E user ID.
<b>VSERVER or V</b> Display process information for all processes that have been defined as server that use the virtual file system (VFS) callable services API.
<b>CAPS or C</b> Display variable data containing lowercase letters in uppercase.

DISPLAY or D OPDATA
<pre>D {OPDATA O} [,PREFIX] [,L={a cc cca name name-a}]</pre>
<b>Description:</b>
<b>OPDATA or O</b> Display information about message processing and presentation.
<b>PREFIX</b> Display command prefixes defined for subsystems in the prefixes defined.
<b>L=a, cc, cca, name or name-a</b> The display area (a), console(cc), both (cca), console name (name), or both (name-a) where the display will appear.

## DISPLAY Command

### DISPLAY or D PARMLIB

```
D PARMLIB [,ERRORS|E]
[,L={a|cc|cca|name|name-a}]
```

#### Description:

Display the parmlib data sets and volume serial numbers that are defined in:

- LOADxx
- The MASTER JCL (when there are no LOADxx parmlib statements)

#### ERRORS or ET

Parmlib data sets and volume serial numbers that are defined in LOADxx PARMLIB statements but were not found

#### L=a, cc, cca, name or name-a

The display area (a), console (cc), both (cca), console name (name), or both (name-a) where the display will appear.

### DISPLAY or D PFK

```
D PFK[,CN=cc] [,L={a|cc|cca|name|name-a}]
[,TABLE|T][=nnnnnnnn]
```

#### Description:

Display PFK definitions and tables.

**TABLE or T** Display PFK definitions in the PFK table **nnnnnnnn**. If you omit **=nnnnnnnn**, the system displays the list of PFK tables available.

**CN=cc** Display the PFK definitions for the console with id **cc**.

#### L=a, cc, cca, name or name-a

The display area (a), console (cc), both (cca), console name (name), or both (name-a) where the display will appear.

## DISPLAY Command

DISPLAY or D PROD	
<pre>D PROD, {REGISTERED REG}       {STATE      }       {STATUS     }       [,OWNER(o)] [,NAME(n)] [,FEATURENAME(fn)] [,ID(id)] [,ALL]</pre>	
<b>Description:</b> Display information about registered products or the product enablement policy.	
<b>REGISTERED   REG</b>	Display information about any matching products that have registered as running on the system.
<b>STATE</b>	Display information about the enablement state, defined in the enablement policy, for any matching products.
<b>STATUS</b>	For the product entry that is the best match for the product you specify, display information about the enablement policy entry that the system would use if the product attempted to register.
<b>OWNER(n)</b>	Specify the owner of the displayed products.
<b>NAME(n)</b>	Specify the name of the products to display.
<b>FEATURENAME(fn)</b>	Specify the feature name of the products to display.
<b>ID(i)</b>	Specify the identifier for the products to display.
<b>ALL</b>	Specify that all matching products, including those that registered with <code>lfaedreg_Type_NoReport</code> are to be displayed.

DISPLAY or D PROG,APF	
<pre>D PROG,APF [,ALL          ]             [,DSNAME=libname             [,ENTRY=xxx             [,ENTRY=(xxx-yyy)             ]             [,L={a cc cca name name-a}]</pre>	
<b>Description:</b> Display entries in the list of APF-authorized libraries.	
<b>PROG,APF</b>	Display libraries in the APF list.
<b>ALL</b>	Display all libraries in the APF list.
<b>DSNAME=libname</b>	Display all entries for this library name.
<b>ENTRY=xxx</b>	Display the entry for the specified decimal entry number.
<b>ENTRY=(xxx-yyy)</b>	Display all entries in the range specified.
<b>L=a, cc, cca, name or name-a</b>	The display area (a), console (cc), both (cca), console name (name), or both (name-a) where the display will appear.

## DISPLAY Command

### DISPLAY or D PROG,EXIT

```
D PROG,EXIT,{{EXITNAME|EX|EN}=exitname}[,DIAG]
             {{EXITNAME|EX|EN}=exitname* }
             {{EXITNAME|EX|EN}=exitname* }
             {{MODNAME|MOD}=modname     }
             {[ALL][,IMPLICIT|,IMP]     }
```

[,L={a|cc|cca|name|name-a}]

#### Description:

Display dynamic exits.

**PROG,EXIT** Display the names of exits defined to the dynamic exits facility that have exit routines associated with them or have had their attributes changed.

**ALL** Display the names of all exits that have been defined to the dynamic exits facility, have had exit routines associated with them, or have had their attributes changed.

#### IMPLICIT or IMP

Display the names of exits that are implicitly defined to the dynamic exits facility.

#### EXITNAME= or EX= or EN=exitname

Display the names of all exit routines associated with the named exit, along with status information about the exit.

#### EXITNAME= or EX= or EN=exitname\*

Display the names of exits that (1) have a name that matches **exitname** and (2) are defined or have had an exit routine associated with them.

**DIAG** Display (in message CSV4641) diagnostic information for the exit specified by **EXITNAME=exitname**.

#### MODNAME= or MOD=name

Display the names of the exits with which the named exit routine is associated.

#### L=a, cc, cca, name or name-a

The display area (a), console (cc), both (cca), console name (name), or both (name-a) where the display will appear.

## DISPLAY Command

DISPLAY or D PROG,LNKLST	
<pre>D PROG,LNKLST[,NAME=[lnklstname CURRENT]          ]   [,NAMES   ]   [,USERS,[CURRENT NOTCURRENT NAME=lnklstname]]   [,ASID=asid                                    ]   [,JOBNAME=jobname                              ]</pre>	
<b>Description:</b>	Display information about LNKLST sets for the LNKLST concatenation and associated jobs.
<b>NAME=CURRENT or NAME=lnklstname</b>	Display the data sets for the specified LNKLST set or concatenation.
<b>NAMES</b>	Display the data sets for each LNKLST set defined to the system.
<b>USERS,CURRENT</b>	Display a list of address spaces that use the current LNKLST set.
<b>USERS,NOTCURRENT</b>	Display a list of address spaces that use any LNKLST set other than the current LNKLST set.
<b>USERS,NAME=lnklstname</b>	Display a list of address spaces that use the LNKLST set specified by NAME=lnklstname.
<b>ASID=asid</b>	Display the LNKLST set in use by the address space for the specified ASID.
<b>JOBNAME=jobname</b>	Display the LNKLST set in use by the specified job.

DISPLAY or D PROG,LPA	
<pre>D PROG,LPA{,MODNAME=modname}   {,CSAMIN      }    [,L={a cc cca name name-a}]</pre>	
<b>Description:</b>	Display the entry point, load point, and length information about modules dynamically added to the LPA, and display the minimum amount of CSA and ECSA that must remain after adding a module to the LPA.
<b>MODNAME=</b>	Display the entry point, load point, and length information about the LPA module. You can use MOD and MODULE as synonyms of MODNAME.
<i>modname</i>	is the 1-8 character LPA module name. If the last character of the modname is "*", it will be treated as X'CO'.
<b>CSAMIN</b>	Display the current CSA and ECSA minimum values.
<b>L=a, cc, cca, name, or name-a</b>	The display area (a), console (cc), both (cca), console name (name), or both (name-a) where the display will appear.

## DISPLAY Command

### DISPLAY or D R

```

D R[,U
    ,KEY[,SYS=sysname][,CN=(ALL)]
    [,I          ][,msgformat][,MSG=msgid][,SYS=sysname][,KEY=keyname]
    [,          ][,JOB=jobname]
    [,E          ][,CN={xx|name|(ALL)}][,ROUT={ALL|(rrr[,sss]...)}
    [,CE          ][,RRR={rrr-sss[,rrr-sss]...}]
    [,R
    [,M
    [,LIST|L]
    [,ALL|A]
    ,

```

(See Note)

[,L={a|cc|cca|name|name-a}]

#### Description:

Display information about outstanding action messages (descriptor codes 1, 2, 3, and 11), WTORs, devices awaiting mount requests to be fulfilled, and units requiring intervention.

**U** Display the device numbers of devices with unfulfilled mount requests and devices requiring operator intervention.

**KEY** Display an alphabetical list of keynames associated with outstanding messages along with the number of messages for each keyname.

**KEY=keyname**  
Request only those messages identified by *keyname*.

**CN** Display a set of messages and device numbers of devices awaiting mount requests to be fulfilled, and units requiring intervention, or, if you specify KEY, a list of outstanding keynames of messages that appear at a specified console(xx) or at all consoles(ALL).

## DISPLAY Command

<b>I</b>	Display the texts and identification numbers of all outstanding immediate action messages (descriptor code 1 or 2).
<b>E</b>	Display the texts and identification numbers of all outstanding eventual action messages (descriptor code 3).
<b>CE</b>	Display the texts and identification numbers of all outstanding critical eventual action messages (descriptor code 11).
<b>R</b>	Display the texts and identification numbers of all messages awaiting replies.
<b>M</b>	Display the texts and identification numbers of all immediate action, eventual action, and critical eventual action messages, and messages awaiting replies.
<b>LIST, L, ALL, A, or no operand</b>	Display the texts and identification numbers of all immediate action, eventual action, and critical eventual action messages and messages awaiting replies, along with the device numbers of devices with unfulfilled mount requests and any units requiring operator intervention.
<b>msgformat</b>	The format of messages sent to a console is to be displayed.
<b>T</b>	Display the time the message was issued along with the job name or ID and system name of the issuer with the message text.
<b>S</b>	Display the system name and job name or ID of the issuer with the message text.
<b>J</b>	Display the job name or ID of the issuer with the message text.
<b>M</b>	Display only the message text.
<b>MSG=msgid</b>	Display the text of any action message awaiting a reply if the message identifier begins with the one to ten characters specified by <b>msgid</b> .
<b>SYS=sysname</b>	Display messages that have appeared at the system named <b>sysname</b> , or if you specify <b>KEY</b> , the keynames of these messages.
<b>ROUT</b>	Display only the outstanding action messages that have the specified routing codes.
<b>L=a, cc, cca, name, or name-a</b>	The display area (a), console (cc), both (cca), console name (name), or both (name-a) where the display will appear.
<b>Note:</b>	If you supply all commas between <b>DISPLAY R</b> and operands that have equal signs, you get default values. Supply only one comma before the <b>L</b> operand, if you omit preceding operands.



## DISPLAY Command

### DISPLAY or D SLIP

D SLIP[=xxxx] [,L={a|cc|cca|name|name-a}]

**Description:**

Display detailed information about the SLIP trap identified by identifier **xxxx**. If **xxxx** is not specified, the system displays all traps and tells whether each is enabled.

**L=a, cc, cca, name, or name-a**

The display area (a), console (cc), both (cca), console name (name), or both (name-a) where the display will appear.

### DISPLAY or D SMF

D SMF[,S],0] [,L={a|cc|cca|name|name-a}]

**Description:**

Display the SMF data set names and their status (**S**) or display the current SMF options (**O**).

**L=a, cc, cca, name, or name-a**

The display area (a), console (cc), both (cca), console name (name), or both (name-a) where the display will appear.

## DISPLAY Command

### DISPLAY or D SMS

```

D SMS[, {ACTIVE|A} ]
[ , CACHE ]
[ ]
[ , CFCACHE(structurename|*) ]
[ ]
[ , CFLS ]
[ ]
[ , CFVOL(volid) ]
[ ]
[ , {DRIVE|DRI} (name|ALL) [, STATUS ] ]
[ , ,DETAIL ]
[ ]
[ , {LIBRARY|LIB} (name|ALL) [, STATUS [, LISTDRI]] ]
[ , ,LISTDRI ]
[ , ,DETAIL ]
[ ]
[ , MONDS(specmask|*) ]
[ ]
[ , OAM ]
[ ]
[ , OPTIONS ]
[ ]
[ , OSMC[, TASK(name)] ]
[ ]
[ , SHCDS ]
[ ]
[ , SMSVSAM [, ALL] ]
[ ]
[ , {STORGRP|SG} {(storgrp|ALL)} [, LISTVOL ] ]
[ , ,DETAIL ]
[ ]
[ , {TRACE|T} ]
[ ]
[ , {VOLUME|VOL} (volume) ]

```

[, L={a|cc|cca|name|name-a}]

#### Description:

Display Storage Management Subsystem (SMS) information.

**ACTIVE or A** Display the three main SMS system data sets currently in use: the active control data set (ACDS), the communications data set (COMMDS), and the source control data set (SCDS). This command also displays the interval that SMS waits between reading device statistics for the 3990-3 control unit (DINTERVAL), the values that were specified for the REVERIFY and ACSDEFAULTS parameters in the IGDSMSxx member of SYS1.PARMLIB, and a list of the MVS systems in the complex.

## DISPLAY Command

**STORGRP or SG (storgrp)[,LISTVOL]**

Display the status of one storage group for each MVS system that is connected to that storage group. If LISTVOL is specified, all the volumes in the storage group and their SMS status are displayed.

**STORGRP or SG (ALL) [,LISTVOL]**

Display a list of all storage groups in the SMS configuration, indicating by symbol( + - \*) the status of each storage group for each MVS system or system group. If you specify LISTVOL, the system displays a list of volumes in the storage group, giving the status for each volume for each MVS system or system group in the complex.

**VOLUME or VOL(volume)**

Display status for the volume **volume** in the storage group with respect to the systems in the complex.

**CACHE**

Display the following information for each 3990-3 control unit that has at least one SMS-managed volume attached to it: SSID, SMSCNT, READ CONTROL, FAST WRITE CONTROL, READ HIT RATIO, and FAST WRITE RATE.

**OPTIONS**

Display all of the SMS parameters and their status at the time the command is issued. The display indicates whether each option is on or off, what data sets are being used, the size of regions, the time interval for recording data, and all other parameter specifics.

**TRACE or T**

Display the SMS trace options in effect at the time the command was issued, followed by the trace table size, and an indication of whether each trace option is now on or off.

**OAM**

The system displays the status of the tape or optical libraries, the tape or optical drives, the library optical drives, the tape or optical volumes, and the number of read/write requests waiting.

**OSMC**

The system displays the status of the OAM storage management component (OSMC).

**TASK(name)**

The system displays the OSMC status for a specific task.

**DRIVE(name or ALL)**

The system displays system connectivity and the online/offline status of the optical drives. When the drive name is specified the status for that drive is shown in a single line display. When ALL is specified the status for all the optical drives is shown. If ALL is the drive name it must be in double parenthesis, ((ALL)).

**LIBRARY(name or ALL)**

The system displays system connectivity and the online/offline status of the tape and optical libraries. When the library name is specified the status for that library is shown in a single line display. When ALL is specified the status for all the tape and optical libraries is shown. If ALL is the library name it must be in double parenthesis, ((ALL)).

**STATUS**

Display online / offline status for tape and optical drives or libraries.

**DETAIL**

Display detail status for tape and optical libraries, tape and optical storage groups and optical drives (in messages CBR1110I, CBR1120I, and CBR1130I). See *OS/390 MVS System Messages, Vol 2 (ASB-EZM)* for more information.

**LISTDRI**

Display the offline/online status for all optical drives associated with specified libraries. Cannot specify with DETAIL.

**L=a, cc, cca, name or name-a**

The display area (a), console (cc), both (cca), console name (name), or both (name-a) where the display will appear.

## DISPLAY Command

### DISPLAY or D SSI

```
D SSI [, {LIST|L} | {ALL|A}] [, {DYNAMIC|DYN|D}={YES|Y} | {NO|N}]
      [
      [, {FUNC|F}=funclist
      ]
      [
      [, {STATUS|STAT|ST}={ACTIVE|ACT} | {INACTIVE|INACT|I}
      ]
      [
      [, {SUBSYS|SUB}=subsysname
      ]
      ]
      [, L={a|cc|cca|name|name-a}]
```

**Description:**

Display information about all subsystems defined to MVS.

**LIST or L** Display the LIST output format. The LIST format is the default keyword.

**ALL or A** Display the ALL output format. This output is the same as the LIST format except that the system includes a sublist after each list element. The sublist contains a list of function codes to which the subsystem responds.

**DYNAMIC or DYN or D=YES or Y or NO or N**  
Indicator of whether the subsystem is dynamic.

**FUNC or F=funclist**  
Display a list of function codes to which the subsystem responds. The *funclist* value can be either a number no greater than 3-digits or a list of numbers no greater than 3-digits.

**STATUS or STAT or ST=ACTIVE or ACT or INACTIVE or INACT or I**  
Displays the status of the subsystem.

**SUBSYS or SUB=subsysname**  
Display the subsystem name.

**L=a, cc, cca, name, or name-a**  
The display area (a), console (cc), both (cca), console name (name), or both (name-a) where the display will appear.

### DISPLAY or D SYMBOLS

```
D SYMBOLS [, L={a|cc|cca|name|name-a}]
```

**Description:**

Display static system symbols and their associated substitution text.

### DISPLAY or D T

```
D T
```

**Description:**

Display the local time of day and date and the Greenwich Mean Time (GMT).

## DISPLAY Command

DISPLAY or D TRACE	
<pre>D TRACE[,COMP=cname[,SUB=(subname)][,N=nnn][,SUBLEVEL] ]   [   [,COMP={(cname[,cname]...) ALL}   [   [,WTR={(name[,name],...) ALL}   ]   ]   [,L={a cc cca name name-a}]</pre>	
<b>Description:</b>	Display component trace status.
<b>TRACE</b>	Display status information about the system and the components defined to component trace.
<b>COMP=ALL</b>	Display status, in long form, for all components.
<b>COMP=(cname)</b>	Display component status, in long form, for the component names requested.
<b>SUB=(subname)</b>	Display subordinate node status for the SUBs requested. If the sub level trace name contains any national characters (@ # \$ _) then the name must be enclosed in quotes. Otherwise, quotes are not required. In either case, the alphabetic characters can be specified in upper or lower case.
<b>N=nnn</b>	Display the subordinate node status and specified 'nnn' number of parallel or sublevel nodes of the requested subordinate node.
<b>SUBLEVEL</b>	Display sublevel trace status.
<b>WTR=(name[,name],...) or ALL</b>	Display information about one or more component trace external writers.
<b>L=a, cc, cca, name or name-a</b>	The display area (a), console (cc), both (cca), console name (name), or both (name-a).

## DISPLAY Command

### DISPLAY or D U

```
D {U[,devicetype] [,ONLINE ] [[, [/] devnum] [,nnnn]}
  {
    {
      {
        {U,IPLVOL
        {U,VOL=volser
      }
    }
  } (See Note)
```

[,L={a|cc|cca|name|name-a}] }

#### Description:

Display device status and allocation.

**devicetype** The device type for which the system is to display unit status information.

#### ONLINE or OFFLINE

Display unit status information only for those devices online/offline depending on which you specify. If neither is specified, both device types will be displayed.

**ALLOC** Display allocation information.

#### AUTOSWITCH or AS

Display information about tape devices defined as automatically switchable.

#### [/]devnum,nnnn

Display unit status information about devices starting with the device number *devnum* for *nnnn* number of devices. The default for *devnum* is X'0000'. The default for *nnnn* is 8 if ALLOC was specified, or 16 otherwise.

**IPLVOL** Display information about the volume from which the system was initially loaded (IPL'ed).

**VOL=volser** The volume serial of the device for which the system is to display unit status information in message IEE457I.

#### L=a, cc, cca, name, name-a

The display area (a), console (cc), both (cca), console name (name), or both (name-a), where the display will appear.

**Note:** Supply all commas between DISPLAY U and a specified operand.

## DISPLAY Command

DISPLAY or D WLM	
<pre>D WLM[,SYSTEM=sysname ,SYSTEMS]     [,APPLENV=applenvname *]     [,SCHENV=schenvname[,SYSTEM=sysname ,SYSTEMS]]     [,RESOURCE=resourcename[,SYSTEM=sysname ,SYSTEMS]]     [,L={a cc cca name name-a}]</pre>	
<b>Description:</b>	
Display workload management service policy, service definition, mode, application environments, resources, and scheduling environments.	
<b>WLM</b>	Display the name of the active service policy in effect on all systems in the sysplex and the time and date that the service policy was activated. Also, provide information about the installed service definition.
<b>SYSTEM=<i>sysname</i></b>	Display the status of the named system.
<b>SYSTEMS</b>	Display the status of all systems in the sysplex.
<b>APPLENV=<i>applenvname</i>   *</b>	Display the status of the named application environment. Use * to display all application environments.
<b>SCHENV=<i>schenvname</i></b>	Display status information for the named scheduling environment. You can display multiple scheduling environments by using wildcard characters (* and ?).
<b>RESOURCE=<i>resourcename</i></b>	Display status information for the named resource. You can display multiple resources by using wildcard characters (* and ?).

## DISPLAY Command

### DISPLAY or D XCF

```

D XCF[, {PATHIN|PI}
[ [ , {DEVICE|DEV}={([/]indevnum[, /]indevnum...)} |ALL}]
[ [ , {STRNAME|STRNM}={ (strname[, strname]...)} |ALL}]
[ [ , {SYSNAME|SYSNM}={ (sysname[, sysname]...)} ]
[ [ , {STATUS|STAT}={([STARTING] [, RESTARTING] [, WORKING]
[ [ [ , STOPPING] [, STOPFAILED] [, INOPERATIVE]
[ [ [ , LINKING] [, QUIESCING)} ]
[ [ [
[ [ , {PATHOUT|PO}
[ [ , {DEVICE|DEV}={([/]outdevnum[, /]outdevnum...)} |ALL}]
[ [ [ , {STRNAME|STRNM}={ (strname[, strname]...)} |ALL}]
[ [ , CLASS={ (classname[, classname]...)} |ALL}]
[ [ [ , {SYSNAME|SYSNM}={ (sysname[, sysname]...)} ]
[ [ , {STATUS|STAT}={([STARTING] [, RESTARTING] [, WORKING]
[ [ [ , STOPPING] [, STOPFAILED] [, INOPERATIVE]
[ [ [ , LINKING] [, QUIESCING)} ]
[ [ [ , REBUILDING] [, QUIESCED)} ]
[ [ [
[ [ , {LOCALMSG|LM} [, CLASS={ (classname[, classname]...)} |ALL}]
[ [ [
[ [ , {GROUP|GRP} [, groupname [, membername] |ALL]
[ [ [
[ [ , {SYSPLEX|S} [, systemname] |ALL]
[ [ [
[ [ , {COUPLE|CPL} [, TYPE={ (name[, name]...)} |ALL}]
[ [ [
[ [ , {CLASSDEF|CD}
[ [ [ , CLASS={ (classname[, classname]...)} |ALL}]
[ [ [ , {GROUP|G} =groupname
[ [ [
[ [ , {STRUCTURE|STR}
[ [ [ , {STRNAME|STRNM}={ (strname[, strname]...)} |ALL}]
[ [ [ , {CONNAME|CONNM}={ (conname[, conname]...)} |ALL}]
[ [ [ , {STATUS|STAT}={([ALLOCATED] [, NOTALLOCATED]
[ [ [ , POLICYCHANGE] [, DEALLOCPENDING]
[ [ [ , LARGERCFRMDS] [, REBUILD] [, STRDUMP]
[ [ [ , ALTER] [, FPCONN] [, NOCONN)} ]
[ [ [
[ [ , {CF} [, {CFNAME|CFNM}={ (cfname[, cfname]...)} |ALL}]
[ [ [
[ [ , {POLICY|POL} [, TYPE={ (name[, name]...)} |ALL}]
[ [ [
[ [ , {PRSPOLICY|PRSPOL}
[ [ [
[ [ , {ARMSTATUS|ARMS}
[ [ [ , {RESTARTGRP|RG} =rgname]
[ [ [ , {ELEMENT|EL} =elname | {JOBNAME|JOB} =jobname]
[ [ [ , INITSYS=initsys]
[ [ [ , CURRSYS=currsys]
[ [ [ , STATE={ ([STARTING|START]) [, {AVAILABLE|AVAIL}] [, FAILED]
[ [ [ [ , {RESTARTING|RESTART}] [, {RECOVERING|RECOVER}]} ]
[ [ [ , DETAIL]
[ [ [
[ [ , L={a|cc|cca|name|name-a}]

```

## DISPLAY Command

**Description:**

Display a summary of the current sysplex.

**PATHIN or PI**

Display the device number of inbound signalling paths XCF can use in the sysplex.

**DEVICE=**{([/]*indevnum*[, [/]*indevnum*].) or ALL}

Display information about the devices requested (*indevnum*) or all of the inbound signalling paths currently defined (ALL)

**PATHOUT or PO**

Display the device number of outbound signalling paths XCF can use in the sysplex.

**DEVICE or DEV =** {[[/]*outdevnum*[, [/]*outdevnum*].) or ALL}

Display information about the devices requested (*outdevnum*) or all of the outbound signalling paths currently defined to XCF (ALL).

**LOCALMSG** Display information about the signalling resources.**GROUP** Display information about multisystem application groups.**SYSPLEX** Provide a list of systems currently participating in the sysplex.**COUPLE** Display the current XCF information specified in the COUPLExx parmliib member or on the COUPLE parameter of the SETXCF command.**CLASSDEF** Display the transport classes defined to XCF.**STRUCTURE**

Display information about the coupling facility structures in the policy.

**CF** Display information about coupling facilities that are attached to the system.**POLICY** Display information about the policies in use.**PRMPPOLICY**

Display the name of the parmliib member in SYS1.PARMLIB that contains the current active XCF PR/SM policy.

**ARMSTATUS**

Display information about active batch jobs and started tasks that are registered as elements of the automatic restart manager.

**groupname** Display members of specified group.**membername or ALL**

Specify information about members of a particular group (*membername*) or all groups (ALL).

**systemname or ALL**

Provide system status and last recorded system status monitor time stamp for specified system (*systemname*) or all systems in the sysplex (ALL).

**CLASS=**{(*classname*[, *classname*].) or ALL}

Display information for a specified transport class (*classname*) or all transport classes (ALL).

**L= a, cc, cca, name or name-a.**

The display area (a), console (cc), both (cca), console name (name), or both (name-a) where the display will appear.

## DUMP Command

---

### DUMP Command

#### DUMP

```
DUMP {COMM={{title}} [,PARMLIB=xx]          }
      {'title'} | [,PARMLIB=(xx[,xx]...)]
      {"title"} [SYMDEF=(symdef[,symdef]...)]
      {TITLE={{title}}                      }
      {'title'}
      {"title"}
```

**Description:**

Cause a system dump of virtual storage (SVC dump). The system responds by prompting you in message IEE094D for the dump options. Specify these options by using the REPLY command, which is documented under REPLY or R. The title of the dump, which you specify by enclosing 1-100 characters in parentheses or single or double quotes, becomes the first record in the dump data set. COMM and TITLE are synonyms.

## DUMPDS Command

### DUMPDS Command (DD)

DUMPDS or DD	
<pre>DD ADD, {DSN={nn                } }       { { (nn[,nn]...)          } }       { { nn-nn                 } }       { { (nn-nn[,nn-nn]...)    } }       { { (nn[,nn]...,nn-nn[,nn-nn]...) } }       { { ALL                   } }       { { (ALL)                 } }       {                          }       {SMS={class                } }       { { (class[,class]...)    } }       {                          }       {VOL={volser               } }       { { (volser[,volser]...)  } }</pre>	
Where <b>class</b> represents:	
<pre>{storclas {([DATA]D=[dataclas] [,MGMT]M=[mgmtclas] [,STOR]S=[storclas])}</pre>	
<b>Description:</b>	
Change the system's list of SYS1.DUMP data sets or clear full SYS1.DUMP data sets and make them available for dumps.	
<b>ADD,DSN=</b>	Add the specified direct access data sets to the list of SYS1.DUMP data sets.
<i>nn</i>	The two-digit decimal identifier (00-99) of a direct access SYS1.DUMP data set you want to add to its list of SYS1.DUMP data sets.
<b>ALL</b>	Add cataloged direct access SYS1.DUMP data sets to system's list of SYS1.DUMP data sets.
<b>ADD,SMS=</b>	The system is to add the specified SMS class(es) to the system's list of resources for automatic allocation of dump data sets.
<i>class</i>	The 1-8 character SMS storage class you want to add to the system's list of resources for automatic allocation.
<b>ALL</b>	Requests that all SMS storage classes be added to the system's list of resources available for automatic dump data set allocation.
<b>ADD,VOL=</b>	Add the specified direct access volume(s) to the system's list of resources for automatic allocation of dump data sets.
<i>volser</i>	The 1-6 character volume serial number of the direct access volume you want to add to the system's list of resources for automatic allocation.
<b>ALL</b>	Request that all DASD volumes be added to the system's list of resources available for automatic allocation of dump data sets.
 DD ALLOC={ACTIVE INACTIVE}	
<b>ALLOC=ACTIVE</b>	Dump data sets are automatically allocated when a dump is requested.
<b>ALLOC=INACTIVE</b>	Initial state of the system after IPL. Dump data sets are not automatically allocated when a dump is requested.

## DUMPDS Command

```
DD CLEAR,DSN={nn                }
              {(nn[,nn]...)}
              {nn-nn            }
              {(nn-nn[,nn-nn]...)}
              {(nn[,nn]...[,nn-nn[,nn-nn]...)}
              {ALL              }
              {(ALL)            }
```

### Description:

Empty the specified data set and mark it as available to receive a dump.

### **CLEAR,DSN=nn or ALL**

Clear and mark as available for dumps the specified direct access dump data sets on the system's list of SYS1.DUMP data sets. The system clears each full direct access dump data set by writing an end-of-file mark at the beginning of the data set.

*nn* The two-digit decimal identifier (00-99) of a direct access SYS1.DUMP data set you want to clear and mark as available for a dump.

**ALL** Clear and mark as available for a dump all direct access dump data sets in the system's list of SYS1.DUMP data sets.

## DUMPDS Command

```
DD DEL, {DSN={nn                } }
      { {nn[,nn]...} }
      { {nn-nn        } }
      { {nn-nn[,nn-nn]...} }
      { {nn[,nn]...[,nn-nn[,nn-nn]...} }
      { {ALL          } }
      { {(ALL)        } }
      {                }
      {SMS={class        } }
      { {(class[,class]...)} }
      { {ALL          } }
      { {(ALL)        } }
      {                }
      {VOL={volser       } }
      { {(volser[,volser]...)} }
      { {ALL          } }
      { {(ALL)        } }
```

Where **class** represents:

```
{storclas
{([DATA|D=[dataclas]][,MGMT|M=[mgmtclas]][,STOR|S=[storclas]])}
```

### Description:

Remove from the system's list of dump data set resources specific SYS1.DUMP data sets, SMS classes, or DASD volumes.

**DEL,DSN=** The system is to remove the specified direct access dump data sets from its list of SYS1.DUMP data sets.

*nn* The two-digit decimal identifier (00-99) of a cataloged direct access SYS1.DUMP data set you want to remove from its list of SYS1.DUMP data sets.

**ALL** The system is to remove all pre-allocated direct access dump data sets from its list of SYS1.DUMP data sets.

**DEL,SMS=** The system is to remove the specified SMS class(es) from the system's list of resources for automatic allocation of dump data sets.

*class* The 1-8 character SMS storage class you want to remove from the system's list of resources for automatic allocation.

**ALL** Request that all SMS storage classes be removed from the system's list of resources available for automatic dump data set allocation.

**DEL,VOL=** Remove the specified direct access volume(s) from the system's list of resources for automatic allocation of dump data sets.

*volser* The 1-6 character volume serial number of the direct access volume you want to remove from the system's list of resources for automatic allocation.

**ALL** Request that all DASD volumes be removed from the system's list of resources available for automatic allocation of dump data sets.

DD NAME=name-pattern

### Description:

Establish a name-pattern for automatically allocated dump data sets.

**NAME=name-pattern**

Automatically allocated dump data sets are named using the naming convention specified by the name-pattern.

The name-pattern can include both text and symbols for which the system will substitute text when it generates the data set name.

## FORCE Command

---

### FORCE Command

#### FORCE

```
FORCE {jobname          } [,ARM] [,A=asid] [,ARMRESTART]
      {U=userid         }
      {[jobname.]identifier}
```

**Description:**

End a named job, which can be a batch job, a started task, or an APPC/MVS transaction program.

**WARNING:**

BE SURE YOU ARE AWARE OF ALL THE CONSEQUENCES OF ISSUING A FORCE COMMAND.

- Use the Force command only as a last resort after several CANCEL commands are unsuccessful. (If you do not attempt to use the CANCEL command before entering a FORCE command, the system issues error message IEE838I.)
- If you need a dump, issue a DUMP command before you issue a FORCE command. (Once you issue a FORCE command it is usually not possible to get a dump of the failing address space.)
- If the CANCEL command fails, then use the FORCE nnn,ARM command (for non-cancellable procedures).
- If that fails, use the FORCE command without the ARM parameter.

**jobname** The name of the job to cancel.

**U=userid** Terminate the specified user ID or, if the user does not have a unique name yet, terminate the user ID logging on at address *asid*, using the following command: CANCEL U=\*LOGON\*, A=*asid* where *asid* is the hexadecimal address space identifier.

**[jobname.]identifier**

The identifier for the unit of work to cancel, optionally preceded by the job name.

You can use the following types of identifiers:

- The identifier that was specified on the START command.
- *[/]devnum*, the device number specified on the START or MOUNT command.
- *devicetype*, the type of device specified on the START or MOUNT command.

**ARM** End the specified user, job, or started task if it is non-cancellable. The ARM operand invokes normal job termination routines without causing address space destruction.

**Note:** This keyword is not related to the ARMRESTART parameter and the functions of the automatic restart manager.

**A=asid** The hexadecimal address space identifier of the work unit to terminate.

**ARMRESTART**

Indicate that the batch job or started task should be automatically restarted, if it has registered as an element of the automatic restart manager.

## HALT Command

---

### HALT Command (Z)

<b>HALT or Z</b>
Z E0D
<b>Description:</b> Record statistics before stopping the operating system. Store the internal I/O device error counts in the logrec data set, empty the SMF buffers on to the active SMF data set in SYS1.MANx, close the system log, and put it on the print queue.

## IOACTION Command

---

### IOACTION Command (IO)

#### IOACTION or IO

```
IO {STOP,DEV=([/]devnum[,[/]devnum]...) }
   {STOP,DEV=([/]lowdevnum-[/]highdevnum[,[/]lowdevnum-[/]highdevnum]...) }
   {RESUME,DEV=([/]devnum[,[/]devnum]...) | ALL }
   {RESUME,DEV=([/]lowdevnum-[/]highdevnum[,[/]lowdevnum-[/]highdevnum]...) }
```

**Note:** You can enter individual device numbers and ranges on the same command. For example:

```
IO RESUME,DEV=(/2233,/990-/1012,160)
```

**Description:** Stop and resume I/O activity to DASD under certain conditions.

**STOP,DEV** Stop all I/O activity to the specified DASD.

**RESUME,DEV**

Resume normal activity to the specified DASD. When ALL is specified, I/O activity is resumed to any DASD device that had been stopped by the IOACTION STOP command on that system.

**[/]devnum or [/]lowdevnum-[/]highdevnum**

The device number or the device numbers of the lower and upper bounds of a range of devices.

## LIBRARY Command

---

### LIBRARY Command (LI)

<b>LIBRARY or LI</b>
<b>Description:</b> Perform any of several tasks associated with tape drives and tape volumes, as described below.
LI {DISPCL DC},devnum
<b>devnum</b> The device number of the tape drive.
LI {DISPDRV D},{devnum[,#devices]} {libname }                    } {devnum1-devnum2 }  [,L={a cc cca name name-a}]
<b>devnum</b> The MVS device number of a tape drive in a library.
<b>libname</b> Name of the library in which the tape drive resides. For a stand-alone tape drive (non-library resident drive), this field contains '--N/A--'.
LI {EJECT E},volser[, {KEEP K    }] [, {BULK B}] [, {LOCATION L}] [, {PURGE P   }]
<b>EJECT or E</b> Physically eject a volume from a library
<b>volser</b> The serial number of the volume to eject from the library.
<b>KEEP or K</b> Indicate, for system-managed tape libraries, that the system is to retain the volume record in the tape configuration database upon completion of the eject operation.
<b>LOCATION or L</b> Indicate that the operator wants to update the shelf location associated with the volume.
<b>PURGE or P</b> Indicate, for system-managed tape libraries, that the volume record in the tape configuration database is to be deleted upon completion of the eject operation. When PURGE is specified, there is no prompt for shelf location.
<b>BULK or B</b> Directs that the system is to place the tape volume in the high-capacity output station of the IBM 3495 Tape Library Dataserver. If you do not specify the BULK option, the system places the volume in the convenience output station.
LI {RESET R},{CBRUXCUA} {CBRUXEJC} {CBRUXENT} {CBRUXVNL}
Indicate that the system is to reactivate the following installation exit:
<b>CBRUXCUA</b> Change use attribute.
<b>CBRUXEJC</b> Cartridge eject.
<b>CBRUXENT</b> Cartridge entry.
<b>CBRUXVNL</b> Volume not in library.

## LIBRARY Command

LI {SETCL|SC},{devnum|devrange},{MEDIA1|MEDIA2|NONE}

**devnum** The MVS device number of a tape drive within a library.

**devrange** The MVS device number range (xxx-yyy) of library resident tape drives.

**MEDIA1** Indicate that the media type of scratch volumes to be loaded is Cartridge System Tape.

**MEDIA2** Indicate that the media type of scratch volumes to be loaded is Enhanced Capacity Cartridge System Tape.

**NONE** Indicate that no scratch volumes are to be loaded.

## LOG Command

---

### LOG Command (L)

<b>LOG or L</b>
L 'text'
<b>Description:</b> Make an entry into the system log (up to 122 characters). It goes to the master console if the log is temporarily inactive. Reenter the command later.

## LOGOFF Command

---

### LOGOFF Command

LOGOFF
--------

LOGOFF
--------

**Description:**

End your terminal session. You must issue LOGOFF when you leave your console and your installation requires operators to log on before issuing commands or performing secured functions.

When LOGON is required at your installation, LOGOFF leaves the console in a secure state. The system does not accept commands from this console until another LOGON command is completed. The console is in roll mode (MODE=R). When LOGON is automatic at your installation, the system issues another MCS LOGON command to that MCS console.

## LOGON Command

---

### LOGON Command

<b>LOGON</b>
<b>Description:</b> To remove the LOGON prompt from the screen, use the CLEAR key or the PA2 key. To restore the panel enter: <b>LOGON {userid}</b> The LOGON command will restore the logon panel display. The userid is an 8-character field where you enter your operator userid. The userid parameter is optional; the system will prompt you for it.
<pre>IEE187I  ENTER LOGON PARAMETERS  LOGON {userid}      PASSWORD {password}  GROUP [racfgroup]  SECLABEL [label]</pre>
<b>Description:</b> Use the LOGON command to identify yourself to the system when your installation requires operators to log on to the system before issuing commands. After the security product, such as RACF, has completed initialization, all MCS consoles will prompt for a user id and password. The command allows you to tab from one field to another. <b>LOGON {userid}</b> The LOGON prompt is displayed in a protected field. The userid is an 8-character field where you enter your operator userid. The userid parameter is required. <b>PASSWORD {password}</b> The PASSWORD prompt is displayed in a protected field. Your password can be up to 8 characters. The input to this field is not displayed. The password field allows you to change your password by using the old-password/new-password/new-password format. The password parameter is required. <b>GROUP [racfgroup]</b> The GROUP prompt is displayed in a protected field. The racfgroup is an 8-character field where you enter your RACF group identifier. The racfgroup parameter is optional. <b>SECLABEL [label]</b> The SECLABEL prompt is displayed in a protected field. The label is an 8-character field where you enter your RACF security label identifier. The label parameter is optional.

## MODE Command

### MODE Command

MODE	
MODE {PD} [, INTERVAL={nnnn}] [, RECORD[={nnn} ] [, CPU={x } ]	
{SD}	{300 }   =ALL {ALL}
{IV}	=25
{TC}	=16
{PT}	=5
{CC}	
{VS}	
{PS}	
{AD}	
{SL}	
{SC}	
<b>Description:</b>	
Control the recording of hard machine check interruptions.	
<b>PD</b>	Instruction-processing damage machine checks are to be monitored in the specified mode.
<b>SD</b>	System damage machine checks are to be monitored in the specified mode.
<b>IV</b>	Machine checks indicating invalid PSW or registers are to be monitored in the specified mode.
<b>TC</b>	Machine checks indicating TOD clock damage are to be monitored in the specified mode.
<b>PT</b>	Machine checks indicating processor timer damage are to be monitored in the specified mode.
<b>CC</b>	Machine checks indicating clock comparator damage are to be monitored in the specified mode.
<b>VS</b>	Machine checks indicating Vector Facility source are to be monitored in the specified mode.
<b>PS</b>	Machine checks indicating primary clock synchronization are to be monitored in the specified mode.
<b>AD</b>	Machine checks indicating ETR attachment are to be monitored in the specified mode.
<b>SL</b>	Machine checks indicating switch to local synchronization are to be monitored in the specified mode.
<b>SC</b>	Machine checks indicating ETR synchronization checks are to be monitored in the specified mode.
<b>INTERVAL = nnnnn</b>	Define the number of seconds used in counting hard machine check interrupts.
<b>RECORD = nnn</b>	After the specified number of hard machine checks of the specified type on the specified processor in the specified interval, the system invokes alternate CPU recovery (ACR) to take the failing processor offline. The defaults are 16 for PD and 5 for all others. All interruptions are recorded on the logrec data set until ACR is invoked.
<b>RECORD = ALL</b>	All specified hard machine check interruptions are to be recorded on the logrec data set. The system no longer monitors the frequency of hard machine check interruptions.
<b>CPU=x or CPU=ALL</b>	Specify the address (0, 1, 2, 3, ...) of a processor or ALL for all processors, to be monitored.

## MODE Command

```
MODE {SR} [, QUIET ] [, CPU={x|ALL}]
      {DG} [, RECORD[=nnn] ]
              | =ALL [, REPORT=nnn]
              | =50
              | =1
```

### Description:

Control the recording and reporting of system recovery and degradation machine check interruptions.

**SR** Place system recovery machine checks in the specified recording mode.

**DG** Place degradation machine checks in the specified recording mode.

**QUIET** No machine check interruptions of the specified type are to occur or be recorded for the specified processor.

### RECORD=nnn

After **nnn** system recovery or degradation machine check interruptions occur on the specified processor, the system will notify you and switch the recording mode to QUIET for that type of interruption on that processor. The defaults are 1 for DG and 50 for SR.

### RECORD=ALL

Record all system recovery or degradation machine check interruptions occurring on the specified processor in the logrec data set. The default number of interruptions is 4 for DG and 50 for SR. Using the REPORT parameter can change this default. You are notified each time the specified number of interruptions occurs, but the system does not switch to QUIET mode.

### CPU=x or CPU=ALL

Specify the address (0, 1, 2, 3, ...) of the processor or ALL for all processors.

```
MODE [STATUS]
```

### Description:

Display the event counters and recording monitoring status associated with each type of machine check interruption.

# MODIFY Command

## MODIFY Command (F)

<p><b>MODIFY or F</b></p>
<p>F [jobname.]identifier,parameters</p> <p><b>Description:</b> Change the job parameters as the programmer specifies.</p> <p><b>jobname</b> The name of the job, or for a started task, the assigned job name.</p> <p><b>identifier</b> The identifier assigned to the job or started task.</p> <p><b>parameters</b> Program parameters passed to the started program.</p>
<p>F [jobname.]identifier,TS=START[,member]</p> <p><b>Description:</b> Start TSO/TCAM time-sharing once TCAM is active.</p> <p><b>jobname</b> The name of the job.</p> <p><b>identifier</b> The user-determined identifier used on the START command to identify TCAM.</p> <p><b>TS=START</b> Initiate TSO/TCAM time sharing.</p> <p><b>member</b> The SYS1.PARMLIB member containing TSO/TCAM time-sharing system parameters.</p>
<p>F [jobname.]identifier,TS=STOP</p> <p><b>Description:</b> Stop TSO/TCAM time-sharing.</p> <p><b>jobname</b> The name of the job</p> <p><b>identifier</b> The user-determined identifier used on the START command to identify TCAM.</p> <p><b>TS=STOP</b> Stop TSO/TCAM time sharing.</p>
<p>F [jobname.]identifier,{USERMAX=nnnn}                           {USER={SIC } }                           {     {FSTOP} }</p> <p><b>Description:</b> Modify TSO/VTAM time-sharing.</p> <p><b>jobname</b> The name of the job. Many installations use TCAS as the name.</p> <p><b>identifier</b> The identifier specified on the START command that started TSO/VTAM time-sharing.</p> <p><b>USERMAX=nnnnn</b> Set the maximum number of users that can be logged on to TSO/VTAM time-sharing at one time (0-32,767).</p> <p><b>USER=SIC</b> Cause the TCAS to cancel all TSO/VTAM terminal user address spaces normally. The terminal users receive any queued messages.</p> <p><b>USER=FSTOP</b> Cause the TCAS to cancel all TSO/VTAM terminal user address spaces immediately. The terminal users do not receive any queued messages. Use FSTOP only after several unsuccessful tries with SIC.</p>

## MODIFY Command

```
F BPXOINIT,{TERM}=pid{.tid}
  {FORCE}=pid{.tid}
  {SHUTDOWN=FORKINIT}
  {
    {=FORKS}
  }
  {RESTART=FORKS}
  {DUMP}=pid
```

### Description:

Control OS/390 UNIX System Services, terminate an OS/390 UNIX process or thread, shut down the OS/390 UNIX initiators, or request a SYSMDUMP for a process.

**BPXOINIT** The name of the job.

**TERM=** Allow the signal interface routine to receive control before the thread is terminated.

#### **pid.tid**

*pid* is the decimal form of the process id that is going to be terminated. *tid* is the hexadecimal form of the thread id that is going to be terminated.

**FORCE=** Do not allow the signal interface routine to receive control before the thread is terminated.

#### **pid.tid**

*pid* is the decimal form of the process id that is going to be terminated. *tid* is the hexadecimal form of the thread id that is going to be terminated.

### **SHUTDOWN=FORKINIT**

Shut down the OS/390 UNIX initiators. Normally, these initiators shut themselves down in 30 minutes.

### **SHUTDOWN=FORKS**

Shut down the fork() service by preventing future forks and non-local spawns. The kernel is prevented from obtaining additional WLM fork initiators for fork and spawn, and attempts to terminate all WLM fork initiator address spaces that are running processes created by fork or non-local spawn. All other services remain "up," but any new dub requests are suspended until the fork() service is restarted.

### **RESTART=FORKS**

Enable the system to resume normal processing. Suspended dub requests are resumed.

**DUMP=pid** Request a SYSMDUMP. A SIGDUMP signal is sent to the specified process. *pid* is the decimal form of the process id that is going to be terminated.

## MODIFY Command

```
F CATALOG, {ABEND{ (id) } }
           { { (yyyyyyy) } }
           { { (ALLOCATE) } }
           { { (ANALYSIS) } }
           { { (MODIFY) } }
           {ALIASLEVEL(n) }
           {ALLOCATE(nnnnn...)[,NOISC] }
           { |,NOVLF }
           {ALLOCATED[(vvvvv)] }
           {CATMAX(nn) }
           {CLOSE(nnnnn...)}
           {DUMPON }
           {DUMPOFF }
           {ECSHR{ (CONNECT) } }
           { (DISCONNECT) } }
           { (STATUS) } }
           { (ADD,catname) } }
           { (REMOVE,catname) } }
           { (STATUS,catname) } }
           { (AUTOADD) } }
           {END(id)[,REDRIVE ] }
           { |,NOREDRIE } }
           {ENTRY[(cname) ] }
           { | (mmmmmm) }
           {ISC(nnnnn...)}
           {LIST[(id) ] }
           { | (yyyyyyy) }
           {LISTJ(jobname) }
           {NOISC(nnnnn...)}
           {NOROTATE }
           {NOVLF[(nnnnn...)] }
           {NOWARNING }
           {OPEN[(vvvvv)] }
           {REPORT[,VLF[cname] ] }
           { |,PERFORMANCE }
           { |,DUMP }
           {RESTART }
           {ROTATE }
           {SYS%ON }
           {SYS%OFF }
           {TASKMAX(nn) }
           {UNALLOCATE[nnnnn...]}
           {VCLOSE(vvvvv) }
           {VLF[(nnn...)] }
           {WARNING }
```

**Description:**

Communicate with the catalog address space. Use this command only at the direction of the system programmer.

## MODIFY Command

### **ABEND(id) or ABEND(yyyyyyyy)**

The catalog address space is to cause an abnormal termination of one service task with an abend code of 91A and take an SVC dump. **id** is the task id and **yyyyyyyy** is the address of the TCB for the catalog address space service task, in hexadecimal.

### **ABEND(ALLOCATE)**

Cause the catalog address space allocation task to end and a new one to be attached.

### **ABEND(ANALYSIS)**

Cause the catalog address space analysis task to end and a new one to be attached.

### **ABEND(MODIFY)**

Cause the catalog address space modify task to end and a new one to be attached.

### **ALIASLEVEL(n)**

Change the number of alias levels of qualification being used by multilevel alias logic in a catalog search.

### **ALLOCATE(nnnnnn...)[,NOISC]**

Provide the ability for integrated catalog facility catalogs to be allocated to the catalog address space. NOISC deactivates the in-storage catalog (ISC) for this catalog, and **nnnnnn** is the integrated catalog facility catalog name.

### **CATMAX(nn)**

Close all open integrated catalog facility user catalogs and set a maximum number of such catalogs that can be opened concurrently in the catalog address space.

### **CLOSE(nnnnnn...)**

Close dynamically an integrated catalog facility named **nnnnnn...**, without affecting existing allocations.

### **DUMPON or DUMPOFF**

Activate or deactivate dynamic dumping by the catalog address space.

### **ECSHR**

Activate or deactivate enhanced catalog sharing (ECS) or display status for the entire system or for an individual catalog.

### **CONNECT**

Connect the system to the ECS structure in the coupling facility.

### **DISCONNECT**

Disconnect the system from the ECS structure in the coupling facility.

### **STATUS**

Display (in message IEC380I) the status of the coupling facility connection and of each catalog referenced since the last IPL.

### **ADD,catname**

Add the named catalog to the ECS structure in the coupling facility if it has the ECSSHARING attribute, shareoptions (3 4), is on a shared volume, and the system is connected to the ECS structure.

### **REMOVE,catname**

Remove the named catalog from the ECS structure in the coupling facility.

### **STATUS,catname**

Display (in message IEC380I) the status of the coupling facility connection and the ECS status of the named catalog.

### **AUTOADD**

Automatically add ECS-eligible catalogs to the ECS structure in the coupling facility on the next reference.

## MODIFY Command

<b>END(id),REDRIVE</b> or <b>END(id),NOEDRIVE</b>	The catalog address space is to end the processing of the service task with name <b>id</b> . Specifying REDRIVE allows the current catalog request to be processed by a different task, while NOEDRIVE does not.
<b>ENTRY[(mmmmmmmm)]</b>	Display the starting addresses, the FMIDS, and the PTF (APAR levels) of all the modules in catalog load modules IGG0CLX0 (resident in the catalog address space) and IGG0CLHA (resident in the link pack area) of the CSECT with name <b>mmmmmmmm</b> .
<b>ISC(nnnnnn...)</b>	Activate the in-storage catalog for the currently allocated integrated catalog facility named <b>nnnnnn...</b>
<b>LIST(id)</b> or <b>LIST(yyyyyyy)</b> or <b>LISTJ(jobname)</b>	Display currently active catalog address space service tasks, their related jobnames, their elapsed times, and unique ids. If you specify a task id [LIST( <i>id</i> )] or TCB address [LIST( <i>yyyyyy</i> )], the command lists a single service task. If you specify LISTJ( <i>jobname</i> ), the command lists all service tasks currently active for the specified jobname.
<b>NOISC</b>	Deactivate the in-storage catalog option.
<b>NOROTATE</b>	Deactivate rotation through the CRT table when assigning a CCX to process a catalog request.
<b>OPEN[(vvvvv)]</b>	Display the name, volume serial number, current allocation count, and various status flags for every catalog currently allocated on the system. The volser that can be used to limit the list to allocated catalogs on a specific volume is specified by <b>vvvvv</b> .
<b>REPORT[,PERFORMANCE]</b>	Display the performance of key events occurring in the catalog address space.
<b>REPORT[,VLF[(nnnnn...)]]</b>	Display various catalog address space status fields.
<b>RESTART</b>	Terminate the catalog address space with an abend code of 81A and an SVC dump. The system restarts the catalog address space in a new a address space and honors outstanding requests.
<b>ENTRY[(cname)]</b>	The catalog address space is to display the entry point of the CSECT with the name <b>cname</b> and its maintenance level.
<b>ROTATE</b>	Reactivate rotation through the CRT table when assigning a CCX to process a catalog request.
<b>NOVLF[(nnn...)]</b>	Provide the ability to deactivate catalog data space cache for a currently allocated and integrated catalog facility catalog.
<b>SYS%ON</b> or <b>SYS%OFF</b>	Activate or deactivate the conversion of SYS% to SYS1.
<b>TASKMAX(nn)</b>	Set the maximum number of catalog address space service tasks that will be attached to process catalog requests. Once that number is reached, additional catalog requests will be deferred until a catalog address space service task is available.
<b>UNALLOCATE(nnnnnn...)</b>	Cause the integrated catalog facility named <b>nnnnnn</b> to be unallocated from the catalog address space.
<b>VCLOSE(vvvvv)</b>	Close the VVDS identified by volume serial <b>vvvvv</b> without affecting any existing allocations.
<b>VLF[(nnn...)]</b>	Provides the ability to activate catalog data space cache for a currently allocated and integrated catalog facility catalog.

## MODIFY Command

<pre>F DLF,MODE={DRAIN D }            {QUIESCE Q}            {NORMAL N }</pre>
<p><b>Description:</b> Change the processing mode for the data lookaside facility (DLF).</p> <p><b>DLF,MODE</b> Cause DLF to change its processing to the specified operation. This is the beginning of the shutdown process for DLF.</p> <p><b>DRAIN or D</b> Set drain mode. In drain mode, DLF connects the user to existing DLF objects or disconnects the user from DLF objects. No new DLF objects are created while in DRAIN mode.</p> <p><b>QUIESCE or Q</b> In quiesce mode, DLF only disconnects the user from DLF objects. No new DLF objects are created while in QUIESCE mode.</p> <p><b>NORMAL or N</b> In normal mode DLF creates and connects the user to new DLF objects, connects the user to existing DLF objects, and disconnects the user from DLF objects.</p>
<pre>F DLF,NN=xx</pre>
<p><b>Description:</b> Cause the data lookaside facility (DLF) to use the specified COFDLFxx member of SYS1.PARMLIB.</p> <p><b>DLF,NN=xx</b> Causes DLF to use the COFDLFxx member of SYS1.PARMLIB, where xx identifies the COFDLFxx member of SYS1.PARMLIB.</p>
<pre>F DLF[, {STATUS ST S}]        ,SM        ,SB</pre>
<p><b>Description:</b> Display the limits from the COFDLFxx parmlib member currently in effect.</p> <p><b>DLF,STATUS</b> Display the DLF limits set in the COFDLFxx parmlib member that is currently in effect.</p> <p><b>SM</b> The status is displayed in megabytes.</p> <p><b>SB</b> The status is displayed in 4K blocks.</p>
<pre>F LLA, {REFRESH }       {UPDATE=xx}</pre>
<p><b>Description:</b> Build and replace LLA (library lookaside) directories.</p> <p><b>LLA,REFRESH</b> Cause LLA to build a new copy of the LLA directory.</p> <p><b>LLA,UPDATE=xx</b> Cause LLA to build a specified part of the LLA directory. xx refers to the SYS1.PARMLIB member CSVLLAxx or to the data set pointed to by the IEFPARM DD statement in the START LLA procedure.</p>

## MODIFY Command

```
F [MVS NFS. |jobname.] identifier,
```

```
{FREEZE={ON|OFF}          }  
{LIST={MOUNTS|DSNAMES}   }  
{RELEASE=datasetname[(member)] }  
{STATUS                   }  
{STOP                     }  
{UNMOUNT=name            }
```

### Description:

Operate with the network file system server.

**MVS NFS** The generic (IBM-supplied cataloged procedure) name assigned to the network file server.

**jobname** The name assigned to the network file server.

**identifier** The identifier, from the START command, assigned to the network file server.

### **FREEZE=ON**

Suspend processing of user mount requests.

### **FREEZE=OFF**

Resume processing of suspended user mount requests.

### **LIST=MOUNTS**

Returns a list of all mount points that are currently active in the network file system server, and their associated current use counts.

### **LIST=DSNAMES**

Return a list of all data sets and PDS members that are either (1) in use by network file system server users or (2) opened for accessing but have not been closed due to timeout.

### **RELEASE=datasetname[(member)]**

Force the network file system server to release a data set or PDS member that is currently being used.

**STATUS** Display the status of the network file system server's active subtasks.

**STOP** Shut down the network file system server.

### **UNMOUNT=name**

Unmount a currently active mount point.

```
F [MVS NFS. |jobname.] identifier, LOG={ERROR|WARN|INFO|MEMSTATS}
```

### Description:

Diagnose problems for the network file system server.

**MVS NFS** The generic (IBM-supplied cataloged procedure) name assigned to the network file server.

**jobname** The name assigned to the network file server.

**identifier** The identifier, from the START command, assigned to the network file server.

### **LOG=ERROR or WARN or INFO**

Collect messages issued by the network file system server.

### **LOG=MEMSTATS**

Collect a "snapshot" of the memory use statistics for performance tuning or debugging.

## MODIFY Command

```
F [OAM.|jobname.]identifier,
  {{LABEL|L}[,9247 ] }
  { |,3995-133 }
  { |,3995WORM }
  { |,3995REWR }
  { }
  {{START|S},{OSMC } }
  { {STORGRP,stogrprname } }
  { {LIBMGT,libraryname } }
  { {DASDSM,stogrprname } }
  { {RECOVERY,volser } }
  { {OBJRECV,collectionname,objectname} }
  { {MOVEVOL,volser } }
  { }
  {{STOP|P},{OAM } }
  { {OSMC } }
  { {STORGRP,stogrprname} }
  { {MOVEVOL,volser } }
  { }
  {{DISPLAY|D},{GROUP[,stogrprname]} }
  { {VOL,volser } }
```

### Description:

- OAM** The generic (IBM-supplied cataloged procedure) name assigned to the object access method.
- jobname** The name assigned to the object access method.
- identifier** The identifier, from the START command, assigned to the object access method.
- LABEL** Specify a request to label the two volumes of an optical disk. Each invocation of the command labels one volume on a stand-alone optical drive.

## MODIFY Command

<b>START</b>	<p>Use the MODIFY OAM,START command to start:</p> <ul style="list-style-type: none"><li>• OSMC storage management cycle</li><li>• OSMC storage management cycle for a particular storage group</li><li>• OSMC library management cycle for a particular library</li><li>• OSMC DASD space management cycle for a particular storage group</li><li>• OSMC optical disk recovery utility</li><li>• OSMC single object recovery utility</li></ul> <p><b>OSMC</b> Start an OAM storage management component cycle</p> <p><b>STORGRP,storgrpname</b> Start an OSMC storage management cycle for the specified storage group.</p> <p><b>LIBMGT,libraryname</b> Start an OSMC library management cycle on the named library.</p> <p><b>DASDSM,storgrpname</b> Start an OSMC DASD space management cycle for the specified storage group.</p> <p><b>RECOVERY,volser</b> Start an OSMC optical disk recovery utility for the optical volume specified and its opposite side.</p> <p><b>OBJRECV,objectname</b> Start an OSMC single object recovery utility for the named object.</p>
<b>STOP</b>	<p>Use the MODIFY OAM,STOP command to stop OAM, OSMC, and OSMC processing for a particular storage group.</p> <p><b>OAM</b> Stop OAM and OSMC if it is running. OAM will continue to process DISPLAY commands.</p> <p><b>OSMC</b> Complete all work currently in progress before stopping. OSMC will continue to process DISPLAY commands.</p> <p><b>STORGRP,storgrpname</b> Complete all work currently in progress for this storage group before stopping.</p>
<b>DISPLAY</b>	<p>Use the OAM DISPLAY command to display the status of an object, an object backup storage group, or an optical disk volume.</p> <p><b>GROUP,storgrpname</b> Display the status of an OBJECT or OBJECT BACKUP storage group. If storgrpname is specified, it displays the status of the requested storage group. If storgrpname is omitted, it displays the status of all OBJECT and OBJECT BACKUP storage groups.</p> <p><b>VOL,volser</b> Display the status of the requested optical volume and the optical volume on the other side of the optical disk.</p>

## MODIFY Command

```
F WLM, [MODE={GOAL|COMPAT}]  
      , [RESOURCE=resource, {ON|OFF|RESET}]
```

### Description:

Switch workload management modes and change resource settings.

### WLM,MODE=

**GOAL** Switch from workload management compatibility mode to workload management goal mode.

**COMPAT** Switch from workload management goal mode to workload management compatibility mode.

### WLM,RESOURCE=

**resource,ON**  
Change the resource setting to ON.

**resource,OFF**  
Change the resource setting to OFF.

**resource,RESET**  
Change the resource setting to RESET.

## MODIFY Command

```
F [XWTR.|jobname.]identifier,  
  
  {{CLASS|C}=[classes]          }  
  {  
  {{DEST|D}=[LOCAL              ]}  
  {                               }  
  { remote-workstation-name     }  
  {                               }  
  {{FORMS|F}=[forms-name]      }  
  {                               }  
  {{JOBID|J}=[JOBnnnn ]        }  
  {                               }  
  { STCnnnn                     }  
  { TSUnnnn                     }  
  {                               }  
  {{WRITER|W}=[STDWTR          ] }  
  {                               }  
  { user-writer-name            }
```

### Description:

Specify the criteria that an external writer is to use in selecting data sets for processing.

**XWTR** The generic (IBM-supplied cataloged procedure) name of the external writer.

**jobname** The name assigned to the external writer.

**identifier** The identifier, from the START command, assigned to the external writer.

The following types of identifiers can be used:

- The identifier that was specified on the START command.
- *[/]*devnum, the device number specified on the START or MOUNT command.
- *devicetype*, the type of device specified on the START or MOUNT command.

### **CLASS=** or **C=[classes]**

Select only data sets enqueued in the specific classes. You can specify up to 8 classes NOT separated by commas.

### **JOBID=** or **J={JOBnnnn, STCnnnn, or TSUnnnn}**

Select only data sets from the job with this subsystem-assigned JOBID.

### **WRITER=** or **W=**

Select only data sets that are to be processed by the standard writer (STDWTR) or to a specified user writer (user-writer-name).

### **FORMS=** or **F=[forms-name]**

Select only data sets that specify this forms name.

### **DEST=** or **D=**

Select only data sets destined for the central processor complex (LOCAL) or for the specified remote workstation.

## MODIFY Command

```
F [XWTR.|jobname.]identifier,{PAUSE|P}={FORMS }  
                                {DATASET}
```

### Description:

Cause an external writer to pause.

**XWTR** The generic (IBM-supplied cataloged procedure) name of the external writer.

**jobname** The name assigned to the external writer.

**identifier** The identifier, from the START command, assigned to the external writer.

The following types of identifiers can be used:

- The identifier that was specified on the START command.
- *[/]**devnum*, the device number specified on the START or MOUNT command.
- *devicetype*, the type of device specified on the START or MOUNT command.

### **PAUSE= or P=FORMS**

For unit record devices, the writer is to pause when a change of forms is necessary.

### **PAUSE= or P=DATASET**

For unit record devices, the writer is to pause before starting to process each data set.

## MONITOR Command

---

### MONITOR Command (MN)

<b>MONITOR or MN</b>	
MN {JOBNAMES[,T][,L={a cc cca name name-a}] } {DSNAME } {SPACE } {STATUS[,L={a cc cca name name-a}] } {SESS[,T][,L={a cc cca name name-a}] }	
<b>Description:</b> Continually display jobnames, data set status, and time-sharing user sessions or add certain information to mount and demount messages.	
<b>JOBNAMES</b>	Display the name of each job when the job starts and terminates and the unit record allocation when the step starts. If a job terminates abnormally, the job name appears in a diagnostic message.
<b>DSNAME</b>	Display, in mount messages, the name of the first nontemporary data set allocated on the volume to which the messages refer. No data set name appears in messages for data sets with a disposition of DELETE.
<b>SPACE</b>	Display, in demount messages, the available space on the direct access volume.
<b>STATUS</b>	Display the data set names and volume serial numbers of data sets with dispositions of KEEP, CATLG, or UNCATLG whenever they are freed.
<b>SESS</b>	Display the user identifier for each TSO terminal when the session is terminated or initiated. If the session terminates abnormally, the user identifier appears in the diagnostic message.
<b>T</b>	Display the time along with the user identifier or job name information.
<b>L=a, cc, cca, name, or, name-a</b>	The display area (a), console (cc), both (cca), console name (name), or both (name-a) where the display will appear.

## MOUNT Command

---

### MOUNT Command (M)

#### MOUNT *or* M

```
M {[/]devnum },VOL=({NL},serial) [,USE={STORAGE}]
  {devicetype }      {SL}          {PUBLIC }
                   {AL}          {PRIVATE}
```

#### Description:

Allow allocation of an I/O device to all job steps that require a particular volume.

**[/]*devnum*** The device number of the I/O device to be mounted.

***devicetype*** The device type of the I/O device to be mounted.

#### **VOL=(NL,*serial*)**

The specified volume does not have a standard label. The serial number is used for allocation references.

#### **VOL=(SL,*serial*)**

The specified volume has a standard label. The serial number is used for label verification and allocation references.

#### **VOL=(AL,*serial*)**

The volume has an American National Standard label. The serial number is used for label verification and allocation references.

#### **USE={STORAGE, PUBLIC, *or* PRIVATE}**

The USE attribute to be assigned to the specified volume.

## MSGRT Command

### MSGRT Command (MR)

#### MSGRT or MR

```
MR { [D=(operand[,operand]...)] [,L={a    }] }
  { |TR=A          {cc  } }
  { |K             {cca } }
  { |CF            {name } }
  { |MN            {name-a} }
  {               }
  { REF          }
  {               }
  { NONE          }
  {               }
  { CONTn         }
  {               }
```

#### Description:

Establish or change message routing instructions.

**D=operand** Route DISPLAY command output to the specified MCS console. Any display operand that produces a status display is valid.

**TR=A** Route the TRACK A command display and the action of the STOPTR command to the specified MCS console.

**K** Subsequent CONTROL command action will affect the specified MCS console until the option is discontinued or you IPL the system.

**CF** Route the reply to the CONFIG command to the specified MCS console.

#### **L=a, cc, cca, name, or name-a**

The display area (a), console (cc), both (cca), console name (name), or both (name-a) of the active MCS console where the specified display will appear.

**NONE** Discontinue all current message routing instructions.

**REF** Display the current message routing instructions.

**CONTn** Continue the display response to a previous MR REF command with the nth line.

**MN** Route the displays produced by the MONITOR command and the action of the STOPMN command to the specified MCS console.

#### Notes:

1. To stop message routing, issue the same command without the L= operand.
2. You can enter multiple command routings by enclosing the operands in parentheses and separating them with commas.

## PAGEADD Command

---

### PAGEADD Command (PA)

#### PAGEADD or PA

```
PA {[PAGE=]} {dsname[,dsname]...}  
  {SWAP= }  
  {NONVIO=}
```

**Description:**

Add auxiliary storage space to the system.

**[PAGE=]dsname[,dsname] ...**

The name of one or more page data sets to be added.

**SWAP=dsname[,dsname] ...**

The name of one or more swap data sets to be added.

**NONVIO=dsname[,dsname] ...**

The name of one or more page data sets to be added. The system is not to use these added page data sets to receive VIO pages.

## PAGEDEL Command

---

### PAGEDEL Command (PD)

#### PAGEDEL or PD

```
PD {DELETE, {PAGE|SWAP}={dsname[,dsname]...}          }
   {
   {REPLACE, {PAGE|SWAP}={{(dsname,rdsname) [, (dsname,rdsname)]...}}
   {
   {DRAIN, {PAGE|SWAP}={dsname[,dsname]...}          }
```

**Description:**

Remove auxiliary storage space from the system by deleting, replacing, or draining (quiescing) local page data sets or swap data sets.

**WARNING:**

Use this command only at the direction of the system programmer; if misused, it can cause an auxiliary storage shortage.

**DELETE** Remove one or more local page data sets or swap data sets from system use.

**REPLACE** Replace a local page data set or swap data set with a newly-opened data set of equal or greater size.

**DRAIN** Make one or more local page data sets or swap data sets read-only. (The system quiesces the data sets—disallows any writing to them.) You can put these data sets back into use in read/write mode by issuing a PAGEADD command.

**PAGE=dsname[,dsname] ...**

The name of one or more local page data sets.

**SWAP=dsname[,dsname] ...**

The name of one or more swap data sets.

**(dsname,rdsname)[(dsname,rdsname)] ...**

The name of one or more data sets to be replaced by the new data set names(s).

## QUIESCE Command

---

### QUIESCE Command

<b>QUIESCE</b>
QUIESCE
<b>Description:</b> Put the system in a manual state without affecting job step timing. Terminate all jobs normally, if possible. Otherwise, suspend current activity and enter a manual state or a wait state with a code of hex 0000CCC.

## REPLY Command

### REPLY Command (R)

<b>REPLY or R</b>	
R 00, '[DATE=yyyy.ddd] [,CLOCK=hh.mm.ss] [,GMT] '	
<p><b>Description:</b> Set the time of day clock. If you specify GMT, the system assumes Greenwich Mean Time. Otherwise, it assumes local time.</p>	
<pre>R id[,ASID=(nnnn[,nnnn]...)]     [,JOBNAME=(name[,name]...)]     [,OPTIONS=(name[,name]...)]     [,WTR={membername DISCONNECT}]     [,CONT ,END ]</pre> <p>NOTE: CONT or END, when specified, must be the last parameter on the input line.</p> <p><b>Note:</b> Specify the component trace operands by using the form of the REPLY command below in response to message ITT006A.</p> <p><b>id</b> The identification specified in the prompting message.</p> <p><b>ASID</b> A list of ASIDs, in hex, to be used as a filter for tracing.</p> <p><b>JOBNAME</b> A list of jobs to be used as a filter for tracing.</p> <p><b>OPTIONS</b> Selective and specific options for the component trace start/stop routine.</p> <p><b>WTR=membername</b> The name of the member that contains the source JCL that the system uses to connect to a component trace writer. The member can be a SYS1.PROCLIB cataloged procedure or a job.</p> <p><b>WTR=DISCONNECT</b> The system is to disconnect the trace from the external writer.</p> <p><b>CONT</b> Continue the reply on another line.</p> <p><b>END</b> Specify the end of your reply.</p>	
[R] id[,]'text' text]	
<b>id</b>	The identification number as specified in the message requesting a response.
<b>'text'</b>	Response to the message. (Apostrophes are optional.)
<pre>R id,U     or R id[,ASID=(n[,n]...)] [,JOBNAME=(name[,name]...)] [,TSOname=(name[,name]...)]     [,DSPNAME=(dspname-entry[,dspname-entry]...)]     [, {PROBDESC PROB PD}=key-spec] [,REMOTE=(request[,request]...)]     [,SDATA=(option[,option]...)] [,STOR=(beg,end[,beg,end]...)]     [,STRLIST=(s-option[,s-option]...)]     [,CONT ,END]</pre> <p><b>Notes:</b></p> <ol style="list-style-type: none"> <li>1. CONT or END, when specified, must be the last parameter on the input line.</li> <li>2. The CONT keyword does not work within a SYSP= list.</li> <li>3. U, when specified, must be the first parameter following the identification number.</li> </ol>	

## REPLY Command

Where **request** represents:

```
{GRPLIST={group(member
{          {(group(member[,member]...) [,group(member[,member]...)...) } }
{          }
{SYSLIST={sysinfo (sysinfo[,sysinfo]...) }
{          [,DSPNAME] ,DSPNAME=(dspname-entry [,dspname-entry]...) ] }
{          [,SDATA] ,SDATA=(option [,option]...) ] }
{          [,STOR] ,STOR=(beg,end [,beg,end]...) ] }
```

Where **s-option** represents:

```
STRNAME=strname
[ ,CONNAME=conname ]
[ ]
[ ,ACCESSTIME={ENFORCE|NOLIMIT|NOLIM} ]
[ ]
[ ,LOCKENTRIES ]
[ ]
[ ,USERCNTLS ]
[ ]
[ ,EVENTQS ]
[ ]
[ , (EMCONTROLS={ALL| (list)}) ]
[ ]
[ , ((COCLASS|STGCLASS|LISTNUM)={ALL| (list)}) ]
[ [ ,ADJUNCT={CAPTURE|DIRECTIO}] [,ENTRYDATA={UNSERIALIZE|SERIALIZE}] ] ]
[ [ [,SUMMARY] ] ]
```

### Description:

Specify dump options in response to message IEE094D.

**id** The identification number specified in message IEE094D.

**U** Dump the master scheduler address space and include the storage areas defined by the SDATA options.

**ASID=(n[,n] ...)**  
Specify the address space(s) that you want to dump.

**JOBNAME=(name[,name]...)**  
Specify the jobname(s) whose address space you want to dump.

**TSOname=(name[,name]...)**  
Specify the name of any address space you want to dump, including the user identifier(s) of a TSO user.

**DSPNAME=(dspname-entry[,dspname-entry]...)**  
Specify the data space to be dumped. The data space can be specified using the explicit hexadecimal address space identifier or the jobname associated with the data space you want to dump.

**PROBDESC=key-spec**  
Provides information describing the problem to an IEASDUMP.QUERY routine.

**REMOTE=(request[,request] ...)**  
Specify dumps on other systems in a sysplex.

**SDATA=(option[,option] ...)**  
Specify the specific storage areas you want to dump.

**STOR=(beg,end[,beg,end] ...)**  
Specify the range of virtual storage you want to dump. You can specify the addresses with 4-byte hexadecimal numbers or 7-digit decimals followed by a K.

**STRLIST=(s-option[,s-option]...)**  
Specify, by name, the coupling facility structures you want to dump.

**CONT** Continue the reply on another line.

**END** Specify the end of your reply.

## REPLY Command

```
R id,{U
      {options}}
```

**Description:** Respond to message IEE357A by specifying that you do not want to change the SMF values (U) or by specifying the options separated by commas as provided by your system programmer.

```
R [00|0][,]['text'|text]
```

**Description:** During recovery processing, use these forms of the REPLY command to respond to system requests.

```
R [0|00],{U
          {
            {'parm=',
             }[,CONT] }
            {'parm=,parm,'
             }
            {'parm=value'
             }
            {'parm=(value[,value]...[,L])'
             }
            {'parm=(value[,value]...[,L]),parm=value'}}
```

**Description:** Specify system parameters in response to message IEA101A.

**00** The identification number specified in the message requesting information.

**U** Do not change any parameters. The system uses the default list of system parameters in SYS1.PARMLIB.

**'parm=,' or 'parm=,parm'**

Cancel the parameter(s), as specified in SYS1.PARMLIB, for this IPL. Any existing system defaults for these parameters are used.

**'parm=value' or 'parm=(value[,value]...[,L])' or 'parm=(value,value),parm=value'**

Override the corresponding parameters with the specified parameters. A blank or comma must separate multiple parameters, and U is not a valid value. If the reply is longer than one line, follow the last parameter with a comma or a blank and CONT. You will then be prompted for the remaining values.

**L** List the parameters as they are processed.

## RESET Command

---

### RESET Command (E)

<b>RESET or E</b>
E [CN(consname)]
<b>Description:</b> Force a hung MCS console offline. <b>CN=(consid)</b> Specify the hung MCS console the system is to force offline.
E jobname[,A=asid],{PERFORM=nnn } {SRVCLASS=classname} {QUIESCE Q } {RESUME }  <b>Description:</b> Change the performance group or service class of an executing job, time-sharing user, or started task. In goal mode only, quiesce a problem job or address space and resume a quiesced job or address space. Use this command only at the direction of the system programmer. <b>jobname</b> The name of the job whose performance group or service class is to be changed. <b>A=asid</b> The hexadecimal address space identifier (ASID) of the job, time-sharing user, or started task you want to change. <b>PERFORM=nnn</b> Change the performance group (value=nnn) of a job currently in execution. Applies only in workload management compatibility mode. <b>SRVCLASS=classname</b> The name of the service class to be assigned to the address space or job. Applies only in workload management goal mode. <b>QUIESCE Q</b> A request to quiesce the target address space or job. Applies only in workload management goal mode. <b>RESUME</b> A request to reclassify a work request. Applies only in workload management goal mode.

## ROUTE Command

---

### ROUTE Command (RO)

#### ROUTE or RO

```
RO {sysname,text                                     }
  {
  { [T=nnn,] { *ALL                                     } [,L={a   }] }
  {          { sysgrpname                               } {cc   } }
  {          { *OTHER                                   } {cca  } }
  {          { (sysname[,sysgrpname,sysname...])       } {name } }
  {          {                                         } {name-a} }
  }
```

#### Description:

Send messages to different systems in a sysplex and monitor the activity of the entire sysplex.

**T** Specify an optional timeout.

**sysname** The system name that will receive and process the command.

**text** The command being routed.

**\*ALL** The command will be routed to all systems in the sysplex.

**sysgrpname** The command will be routed to a subset of systems in the sysplex.

#### L=a, cc, cca, name, or name-a

The display area (a), console (cc), both (cca), console name (name), or both (name-a) of the active MCS console where the specified display will appear.

## SEND Command

### SEND Command (SE)

<b>SEND or SE</b>
SE msgno,DELETE
<b>Description:</b> Delete the specified message from the broadcast data set.
SE [msgno,]LIST
<b>Description:</b> List the requested message or all messages (if that operand is omitted) in the notices section of the broadcast data set.
SE {'message'},{BRDCST           } {msgno     }{OPERATOR=routecode} {CN=console        }
<b>Description:</b> Send messages to other operators at MCS consoles. <b>'message' or msgno</b> The message or number of a message in SYS1.BROADCAST to be sent. <b>BRDCST</b> Send the message to all active consoles that have not specified the 'no broadcast option'. <b>OPERATOR=routecode</b> The installation area to receive the message (range of 0-15). <b>CN=console</b> The console where the message is to be sent (range 0-99).
SE {'message'},{ <u>NOW</u>  LOGON},{ <u>WAIT</u>  NOWAIT},{ROUTE={*ALL systemname groupname}} {msgno     }
<b>Description:</b> Send a message to all terminal users currently logged on the system. <b>'message' or msgno</b> The message or number of a message in SYS1.BROADCAST to be sent. <b>NOW</b> Specify that the message be sent immediately only to all currently logged-on users. <b>LOGON</b> Logged-on users who are accepting messages will receive the message. For users not accepting messages, the message will be stored in the mail section of the broadcast data set until the user requests it. <b>WAIT</b> Specify that the message be held until system output buffers are available for the logged-on users. <b>NOWAIT</b> Specify that the message NOT be held. When LOGON is specified the message is saved for any users whose terminal are busy or who were not logged on. <b>ROUTE</b> Send the message to all users logged onto the specified system(s). *ALL Send the message to all users logged onto all systems participating in the sysplex. systemname Send the message only to users logged onto systemname. groupname Send the message to all users logged onto the sysplex subset defined by groupname.

## SEND Command

```
SE {'message'},USER=(userid[,userid]...),{NOW|LOGON},{WAIT|NOWAIT}
  {msgno }
```

**Description:**

Communicate with specific time-sharing users.

**'message' or msgno**

The message or number of a message in SYS1.BROADCAST to be sent.

**USER=(userid[,userid] ...)**

Send the message to these users.

**NOW**

Specify that the message be sent immediately. If the recipient of the message is not logged on, the system deletes the message and notifies you.

**LOGON**

Logged on users who are accepting messages will receive the message. If they are not accepting messages or are not logged on, the system stores the message in the mail section of the broadcast data set until the user requests it.

**WAIT**

Specify that the message be held until system output buffers are available for the specified logged-on users.

**NOWAIT**

Specify that the message not be held. When USER is specified you are notified of any users who do not receive the message.

```
SE {'message'},{USER=(userid[,userid]...),SAVE
  {msgno } {ALL }
```

**Description:**

Store messages in the broadcast data set.

**'message' or msgno**

The message or message number to be sent.

**USER=(userid[,userid] ...)**

The identifications of those users to receive the message. The message will be stored in the mail sections of these users.

**ALL**

All terminal users will receive the message. It is placed in the notices section and given a number. This number is printed when the message is stored and can be used as **msgno** in future SEND commands.

**SAVE**

The system stores the message in the appropriate section of the broadcast data set until a user logs on or requests messages. If ALL is specified the system places the message in the notices section until deleted explicitly.

## SET Command

### SET Command (T)

SET or T	
<pre>T [[DATE=yyyy.ddd] [,CLOCK=hh.mm.ss]] [RESET]   [,IPS=xx] [,OPT=xx] [,ICS=xx] [,SMF=xx] [,DAE=xx]   [,MPF={ (xx[,xx] ...)  NO}]   [,SLIP=xx] [,PFK=xx] [,IOS=xx] [,EXS=xx] [,SMS=xx] [,MMS={xx NO}] [,PROG=xx]   [,DIAG=xx] [,GRSRNL=(xx[,xx]...)]   [,APPC=(xx[,xx]...[,L])] [,ASCH=(xx[,xx]...[,L])] [,SCH=(xx[,xx]...[,L])]   [,CONGRP={ (xx[,xx]...)  NO }] [,PROD=(xx[,xx]...)]   [,OMVS=(xx[,yy]...[,nn])]   [,RTLS=(xx[,xx]...)]</pre>	
<b>Description:</b>	
Set the time and date.	
<b>DATE=yyyy.ddd</b>	Set the year (1900-2042) and the day (001-366).
<b>CLOCK=hh.mm.ss</b>	Set the local time.
<b>RESET</b>	Set the local date and time to the values that are in the CLOCKxx member of SYS1.PARMLIB.
The following parameters determine which members of SYS1.PARMLIB to use. Use these commands only on direction of the system programmer.	
<b>IPS=xx</b>	The IEAIPSxx member of SYS1.PARMLIB that contains the new parameters SRM is to use. Not valid on systems operating in workload management goal mode.
<b>OPT=xx</b>	The IEAOPTxx member of SYS1.PARMLIB that contains the new parameters SRM is to use.
<b>ICS=xx</b>	The IEAICSxx member of SYS1.PARMLIB that contains the new installation control specifications SRM is to use. Not valid on systems operating in workload management goal mode.
<b>SMF=xx</b>	The SMFPRMxx member of SYS1.PARMLIB that contains the parameters MVS is to use when it restarts SMF.
<b>DAE=xx</b>	The ADYSETxx member of SYS1.PARMLIB that contains the new parameters that dump analysis and elimination (DAE) is to use.
<b>MPF={xx[,xx,...]} or MPF=NO</b>	The MPFLSTxx member or members of SYS1.PARMLIB that contain the message suppression and presentation specifications or NO to end MPF processing.
<b>PROG=xx</b>	The PROGxx parmlib member that contains definitions to control (1) the format and contents of the list of APF-authorized libraries. (2) the use of exits and exit routines, and (3) the addition of modules to and removal of modules from the LPA after IPL.
<b>DIAG=xx</b>	The DIAGxx member of SYS1.PARMLIB containing definitions that control: <ul style="list-style-type: none"><li>• Common service area (CSA), expanded CSA (ECSA), system queue area (SQA), and expanded SQA (ESQA) tracking</li><li>• GETMAIN/FREEMAIN/STORAGE (GFS) trace</li></ul>

## SET Command

<b>SLIP=xx</b>	Indicate the IEASLPxx member of SYS1.PARMLIB that contains the commands SLIP processing is to use.
<b>PFK=xx</b>	Indicate the PFKTABxx member of SYS1.PARMLIB that contains the PFK tables that are to be available to a console.
<b>SMS=xx</b>	Indicate the IGDSMSxx member of SYS1.PARMLIB that contains the parameters the system is to use when it starts SMS.
<b>IOS=xx</b>	Indicate the IECIOxx member of SYS1.PARMLIB that contains the parameters the system is to use to control MIH and I/O timing.
<b>APPC=</b>	The APPCMxx member of SYS1.PARMLIB that contains the desired APPC configuration.
<b>ASCH=</b>	The ASCHPMxx member of SYS1.PARMLIB that contains the desired APPC configuration.
<b>SCH=</b>	The SCHEDxx member of SYS1.PARMLIB that contains the desired PPT configuration.
<b>CNGRP=</b>	The CNGRPxx member of SYS1.PARMLIB to be activated.
<b>CNGRP=NO</b>	The system is to remove all active console group definitions from the sysplex.
<b>EXS=xx</b>	Indicate the EXSPATxx member of SYS1.PARMLIB that contains the excessive spin recovery actions and loop timeout interval.
<b>MMS=xx</b>	Start the message translation service when MVS message service is not active. When active, the Set MMS=xx changes the MMSLSTxx member.
<b>MMS=NO</b>	End MMS processing and frees all allocated resources.
<b>GRSRNL=(xx[,xx]...)</b>	The two alphanumeric characters indicating the GRSRNLxx member(s) of SYS1.PARMLIB that contain the specified GRS resource names list (GRSRNL) configuration.
<b>RTLS=(xx[,xx...])</b>	The two alphanumeric characters indicating the CSVRTLxx members of the logical parmlib that contain the desired run-time library services specification.

## SETDMN Command

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### SETDMN Command (SD)

SETDMN or SD
<pre>SD domainnum, {MIN=n1 [,MAX=n2] [,ASRV=(n0,n9) ] }                {                 ,DSRV=(n0,n9) }                 ,FIXCIDX=nnn }                }                {{ASRV=(n0,n9) } [,MIN=n1] [,MAX=n2] }                {{DSRV=(n0,n9) } }                {{FIXCIDX=nnn } }                {                 MAX=n2 [,ASRV=(n0,n9) ] [,MIN=n1] }                 ,DSRV=(n0,n9) }                 ,FIXCIDX=nnn }                }</pre>
<p><b>Description:</b></p> <p>Change existing values of parameters in a single domain. Issue this command only on direction of the programmer. Not valid on systems operating in workload management goal mode.</p> <p><b>domainnum</b> The domain table entry (1-128) to be modified.</p> <p><b>MIN=n1</b> The minimum multiprogramming level (0-999).</p> <p><b>MAX=n2</b> The maximum multiprogramming level (0-999).</p> <p><b>ASRV=(n0,n9)</b> Average service per ready address space in the domain. The value range is 0-999999999.</p> <p><b>DSRV=(n0,n9)</b> Total service rate for each domain. The value range is 0-999999999.</p> <p><b>FIXCIDX=n</b> Fixed contention index value for each domain. The value range is 0-655.</p>

## SETETR Command

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### SETETR Command

<b>SETETR</b>
SETETR PORT=n
<b>Description:</b> Enables external time reference (ETR) ports that have been disabled.
<b>PORT = n</b> The number of the ETR port to enable.

## SETGRS Command

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### SETGRS Command

SETGRS
<pre>SETGRS {MODE=STAR         { [RESMIL=nnnnn] [, TOLINT=nnnnn] [, SYNCHRES={YES NO}] }           RESMIL=OFF</pre>
<p><b>Description:</b> Migrate currently active global resource serialization ring to a global resource serialization star or modify current RESMIL or TOLINT values.</p>
<p><b>MODE = STAR</b> Indicate that the global resource serialization ring complex is to be converted to a star complex.</p>
<p><b>RESMIL=nnnnn</b> Specify, in milliseconds, the minimum RSA-message residency time. Use RESMIL=OFF to specify that global resource serialization is not to tune the residency time.</p>
<p><b>TOLINT=nnnnn</b> Specify, in seconds, the maximum toleration time interval global resource serialization allows the RSA-message to return to this system before it considers the RSA-message overdue.</p>
<p><b>SYNCHRES=YES NO</b> Specify whether or not to activate synchronous reserve processing.</p>

## SETIOS Command

---

### SETIOS Command

SETIOS
<pre>SETIOS MIH[,class=mm:ss[,class=mm:ss]...]            [,MOUNTMSG={YES NO}]            [,DEV={([/]devnum[,[/]devnum)...} ,TIME=mm:ss,IOTIMING=mm:ss]            {([/]lowdevnum-[/]highdevnum) }            [,MSGONLY={YES NO}]</pre>
<p><b>Description:</b> Dynamically add, delete, modify, or replace any previously-specified MIH or I/O timing parameter.</p>
<p><b>class=mm:ss</b> Specify the MIH or I/O timing time interval for one or more classes.</p>
<p><b>MOUNTMSG={YES or NO}</b> Indicate whether or not the system is to display the mount pending messages (YES or NO).</p>
<p><b>DEV=([/]devnum[,[/]devnum) or DEV=([/]devnum1-[/]devnum2)</b> Specify one or more device numbers or the device numbers of the lower and upper bounds of a range of devices.</p>
<p><b>TIME=mm:ss</b> Specify the time interval. If you specify TIME you must also specify DEV.</p>
<p><b>IOTIMING=mm:ss</b> Specify the I/O timing limit. If you specify IOTIMING you must also specify DEV.</p>
<p><b>MSGONLY={YES or NO}</b> Indicate whether to process an I/O timeout condition using message-only recovery (YES) or full I/O timing recovery (NO).</p>

## SETLOAD Command

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### SETLOAD Command

SETLOAD
<pre>SETLOAD xx,PARMLIB[, {DSNAME DSN}=dsn] [, {VOLUME VOL VOLSER}=vol]</pre>
<p><b>Description:</b> Dynamically switch from one parmlib concatenation (logical parmlib) to another without having to initiate an IPL.</p>
<p><b>xx</b> Specify the one- or two-character suffix that identifies the LOADxx member to process.</p>
<p><b>PARMLIB</b> Direct the system to process the PARMLIB statements in the LOADxx member according to the filter parameters (HWNAME, LPARNAME, VMUSERID).</p>
<p><b>DSNAME or DSN =dsn</b> Specify the one- to forty-four-character name of the data set where the LOADxx member resides.</p>
<p><b>VOLUME or VOL or VOLSER =VOL</b> Specify the one- to six-character serial number identifier of the volume where the specified data set resides.</p>

## SETLOGRC Command

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### SETLOGRC Command

<b>SETLOGRC</b>	
SETLOGRC {LOGSTREAM DATASET IGNORE}	
<b>Description:</b> Dynamically change the logrec recording medium.	
<b>LOGSTREAM</b>	The desired medium for recording logrec error and environmental records is a log stream.
<b>DATASET</b>	The desired medium for recording logrec error and environmental records is a data set. Setting the medium to data is only valid if the system had originally been initiated with a data set as the logrec recording medium.
<b>IGNORE</b>	Disable the recording of logrec error and environmental records.

## SETOMVS Command

---

### SETOMVS Command

SETOMVS	
SETOMVS	[FORKCOPY=(COPY COW)] [,IPCSEMNIDS=ipcsemnids] [,IPCSEMNOPS=ipcsemnops] [,IPCSEMNSEMS=ipcsemnsems] [,IPCMSGQBYTES=ipcmsgqbytes] [,IPCMSGNIDS=ipcmsgnids] [,IPCshmPAGES=ipcshmpages] [,IPCshmNIDS=ipcshmnids] [,IPCshmNSEGS=ipcshmnsesgs] [,IPCshmSPAGES=ipcshmspases] [,IPCMSGQMNUM=ipcmsgqmnum] [,MAXASSIZE=maxassize] [,MAXCORESIZE=maxcoresize] [,MAXCPUIME=maxcputime] [,MAXFILEPROC=maxfileproc] [,MAXFILESIZE=(maxfilesize NOLIMIT)] [,MAXMMAPAREA=maxmmaparea] [,MAXPROCSYS=maxprocsys] [,MAXPROCUSER=maxprocuser] [,MAXPTYS=maxptys] [,MAXRTYS=maxrtys] [,MAXSHAREPAGES=maxsharepages] [,MAXTHREADS=maxthreads] [,MAXTHREADTASKS=maxthreadtasks] [,MAXUIDS=maxuids] [,PRIORITYGOAL=(n)   NONE] [,PRIORITYPG=(n)   NONE] [RESET=(xx)] [,STEPLIBLIST='stepliblist'] [,SUPERUSER=superuser] [,SYSCALL_COUNTS=(YES NO)] [,TTYGROUP=ttygroup] [,USERIDALIASTABLE='useridaliastable']
<b>Description:</b>	
Dynamically change the options that OS/390 UNIX System Services uses. These options are originally set in the BPXPRMxx member of SYS1.PARMLIB at the time of initially loading (IPL'ing) the system.	

## SETPROG Command

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### SETPROG Command

#### SETPROG APF

```
SETPROG APF{,FORMAT={DYNAMIC|STATIC} }  
          { }  
          {,{ADD|DELETE},DSNAME|LIBRARY=libname,{SMS|VOLUME=volume} }
```

#### Description

Update the authorized program facility (APF) list.

#### **FORMAT=[DYNAMIC or STATIC]**

Indicate that the format of the APF list is to change from static to dynamic, or vice versa.

**ADD** Add the library specified on the DSNAME parameter to the APF list.

**DELETE** Delete the library specified on the DSNAME parameter from the APF list.

#### **DSNAME=libname**

The 1-44 character name of the library that you want to add or delete.

#### **VOLUME=volume**

The volume identifier for the volume containing the library specified on the DSNAME parameter, which is either the volume serial number, six asterisks (\*\*\*\*\*) to indicate that the library resides on the current SYSRES volume, or \*MCAT\* to indicate that the library resides on the volume that contains the master catalog.

**SMS** Indicate that the library specified on the DSNAME parameter is managed by the storage management subsystem (SMS), and therefore no volume is associated with the library.

## SETPROG Command

SETPROG EXIT	
SETPROG EXIT, {ADD, EXITNAME=exitname, MODNAME=modname	}
{ [ , STATE={ACTIVE   INACTIVE}]	}
{ [ , DSNNAME=dsname]	}
{ [ , JOBNAME={jobname   *}]	}
{ [ , ABENDNUM=(n [ , CONSEC])]	}
{ [ , FIRST   LAST]	}
{ }	}
{ATTRIB, EXITNAME=exitname, KEEPRC=(compare, kk)	}
{ }	}
{DELETE, EXITNAME=exitname, MODNAME=modname	}
{ [ , FORCE={YES   NO}]	}
{ }	}
{MODIFY, EXITNAME=exitname, MODNAME=modname	}
{ [ , STATE={ACTIVE   INACTIVE}]	}
{ [ , JOBNAME={jobname   *}]	}
{ }	}
{UNDEFINE, EXITNAME=exitname	}
	}
<b>Description</b>	
Update dynamic exits.	
<b>ADD</b>	Add an exit routine to an exit.
<b>MODIFY</b>	Change the state of an exit routine.
<b>DELETE</b>	Delete an exit routine from an exit.
<b>UNDEFINE</b>	Undefine an implicitly defined exit.
<b>ATTRIB</b>	Change the attributes of an exit.
<b>EXITNAME=</b> or <b>EX=</b> or <b>EN=exitname</b>	The 1-16 character name of the exit.
<b>MODNAME=</b> or <b>MOD=modname</b>	The 1-8 character name of the exit routine. If DSNNAME is not specified, the system looks for the exit routine first in the LPA, and then in the LNKLST concatenation.
<b>DSNAME=</b> or <b>DSN=</b> or <b>LIBNAME=</b> or <b>LIB=dsname</b>	The 1-44 character data set name of a load library in which the named exit routine resides. The data set must be cataloged, but does not need to be APF-authorized.
<b>JOBNAME={jobname or *}</b>	The 1-8 character name of the particular job for which this exit routine is to be given control.  The default for the ADD parameter is *, which indicates that the exit routine is to be given control when any job is in control. The default for the MODIFY parameter is to leave the jobname unchanged.
<b>STATE</b>	Indicate the state of the exit routine. ACTIVE indicates that the exit routine is to be given control when the exit is called. INACTIVE indicates that the exit routine is not to be given control when the exit is called. The default for the ADD parameter is ACTIVE. The default for the MODIFY parameter is to leave the state unchanged.

## SETPROG Command

### **ABENDNUM=n[,CONSEC]**

Indicate the abend characteristics for the exit routine, which are used to override the characteristics assigned by default when the exit was defined. ABENDNUM=n indicates that the exit routine is not to be given control after the n-th abend. CONSEC indicates that there must be n consecutive abends before the system stops giving control to the exit routine. CONSEC is not supported if this exit has FASTPATH processing in effect, and either a PSW key 8 to 15 or ANYKEY processing in effect.

The default is to use the ABENDNUM characteristics that were specified or defaulted when the exit was defined. The ABENDNUM value may not exceed 8 decimal digits.

### **FIRST**

Specify that the system is to call the exit routine before all other exit routines associated with this exit, unless another exit routine, added after it, also specifies FIRST.

If neither the FIRST parameter nor the LAST parameter is specified, the system may call the exit routine in any order relative to other routines associated with this exit.

### **LAST**

Specify that the system is to call the exit routine after all other exit routines associated with this exit, unless other exit routines are added after it.

If neither the FIRST parameter nor the LAST parameter is specified, the system may call the exit routine in any order relative to other routines associated with this exit.

### **FORCE=YES or NO**

Indicate that the system is to delete the exit routine. The exit routine will no longer be given control. Specify FORCE=YES for an exit with FASTPATH processing in effect, and either a PSW key 8 to 15 or ANYKEY processing in effect.

### **KEEPRC=(compare,kk)**

Specify a comparison and a return code which, if true, causes the information produced by this exit routine to be returned to the exit caller. The valid choices for *compare* are EQ, NE, GT, LT, GE, and LE.

The default is to not perform KEEPRC processing. *kk* may not exceed 8 decimal digits.

If return codes from more than one exit routine match the conditions specified, the system returns information from the exit routine that finishes first.

## SETPROG Command

### SETPROG LNKLST

```
SETPROG LNKLST, {DEFINE, NAME=lnk1stname[, COPYFROM=lnk1stname] [, NOCHECK] }
                {ADD, NAME=lnk1stname, }
                  DSNAME=dsname[, VOLUME=volser] [, ATBOTTOM ] }
                  [, ATTOP ] }
                  [, AFTER=dsname] }
                [, CHECKCONCAT={YES|NO}] }
                {DELETE, NAME=lnk1stname, DSNAME=dsname }
                {UNDEFINE, NAME=lnk1stname }
                {TEST, NAME=lnk1stname, MODNAME=name }
                {ACTIVATE, NAME=lnk1stname }
                {UPDATE, {JOB=jobname } }
                  {ASID=asid } }
                {UNALLOCATE }
                {ALLOCATE }
```

#### Description:

Update linklist concatenations by:

- Defining a LNKLST set of data sets for the LNKLST concatenation.
- Adding data sets to or delete data sets from the LNKLST set.
- Removing the definition of a LNKLST set from the system.
- Testing for the location of a specific module in the LNKLST concatenation.
- Activating a LNKLST set as the LNKLST concatenation for the system.
- Updating an address space for jobs to use a LNKLST set.

## SETPROG Command

SETPROG LPA	
<pre>SETPROG LPA, {ADD, [MODNAME=(modname...modname)   MASK=mask]   {     ,DSNAME=[dsname   LNKLST]   }   {     [,FIXED] [,PAGEPROTPAGE]   }   {   }   {DELETE,MODNAME=(modname...modname)   }   {     FORCE=YES [CURRENT   OLDEST]   }   {   }   {CSAMIN=(below,above)   }</pre>	
<p><b>Description:</b></p> <p>Specify, any time after IPL:</p> <ul style="list-style-type: none"> <li>• Modules to add to the LPA.</li> <li>• Modules to delete from the LPA.</li> <li>• Threshold values for minimum amounts of CSA storage that must still be available after an ADD operation.</li> </ul>	
<b>LPA</b>	Statement type indicating that an action may be performed on the LPA.
<b>ADD</b>	Specify that one or more modules be added to the LPA. <b>Default Value:</b> None
<b>DELETE</b>	Directs that one or more modules be deleted from the LPA. Only modules added to LPA after an IPL are eligible for dynamic deletion. <b>Default Value:</b> None
<b>CSAMIN</b>	The minimum amount of CSA and ECSA that must remain after a module is added to the LPA. If the requested ADD operation would reduce the CSA or ECSA below the defined minimum, the system rejects the operation. <b>Default Value:</b> (0,0)
<i>below</i>	The minimum amount of below-16M CSA storage that must remain after the ADD operation. The value can be expressed as n, nK, or nM.
<i>above</i>	The minimum amount of above-16M CSA storage that must remain after the ADD operation. The value can be expressed as n, nK, or nM.
<b>MODNAME=(modname,...,modname)</b>	<i>modname</i> is the 1-8 character LPA module name or alias. If the last character of the modname is an asterisk (*), it will be treated as X'C0'. This lets you directly specify the name of a load module that ends with that nonprintable character. The system does not support wildcard characters within <i>modname</i> . You can provide a maximum of 128 module names, and you can use MOD and MODULE as synonyms for MODNAME. <b>Default Value:</b> None
<b>MASK(mask)</b>	<i>mask</i> is the 1-8 character mask to be applied to all members of the specified data set. It can contain wildcard characters "*" and "?" and all members that match will be processed. <b>Default Value:</b> None

## SETPROG Command

### **DSNAME(dsname)**

*dsname* is the 1-44 character data set name that contains the module(s) or alias(es). When MODNAME is specified, you can specify DSNAME(LNKLIST) if you want the system to use its normal search protocol (search LPA then search the lnklist), instead of a particular data set. The data set must be cataloged.

The attribute of the CSA for each module is assigned as OWNER=SYSTEM. You can use DSN, LIB, and LIBRARY as synonyms for DSNAME.

**Default Value:** None

### **FIXED**

Directs the system to place the modules in fixed storage.

**Default Value:** If you do not specify FIXED, the system places the modules in pageable storage.

### **PAGEPROTPAGE**

Indicate whether or not to page protect entire modules. The default is to page protect entire modules.

Be aware that when that default is taken, storage use for the modules is somewhat larger than when specifying the PAGEPROTPAGE parameter, because each module gets allocated a number of whole pages (which can be page protected), rather than just the amount of storage that is truly necessary to load the modules. When you request PAGEPROTPAGE, the system page protects only the whole pages within each load module. This keeps the storage use to the minimum amount, but allows the possibility of a storage overlay of the beginning or end of the load module.

You can use PPPAGE and PPP as synonyms for PAGEPROTPAGE.

**Default Value:** Page protect entire modules.

### **FORCE(YES)**

Confirm that the delete requestor understands the ramifications of deleting a module from the LPA, when the system can have no knowledge of whether any code is currently executing within the specified module.

**Default Value:** None. Required parameter.

### **CURRENT | OLDEST**

CURRENT directs the system to delete the current copy. OLDEST specifies that the oldest copy be deleted. You can use CUR as a synonym for CURRENT and OLD as a synonym for OLDEST.

**Default Value:** CURRENT

## SETRRS CANCEL Command

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### SETRRS CANCEL Command

SETRRS
--------

SETRRS CANCEL[,DUMP  <u>NODUMP</u> ]
--------------------------------------

**Description:**

Cancel (abnormally terminate) resource recovery services (RRS).

## SETSMF Command

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### SETSMF Command (SS)

<b>SETSMF or SS</b>
SS parameter(value[,value]...)
<b>Description:</b> Add a SUBPARM parameter or replace any previously-specified parameter in the active SMF member of SYS1.PARMLIB except the ACTIVE, PROMPT, SID, or EXITS parameters.

## SETSMS Command

---

### SETSMS Command

SETSMS
--------

SETSMS parameter(value)[,parameter(value)]...
---

**Description:**

Change a subset of storage management subsystem (SMS) parameters from the console without changing the active IGDSMSxx member of SYS1.PARMLIB.

## SETSSI Command

---

### SETSSI Command

SETSSI
<pre>SETSSI {ADD, {SUBNAME SUB S}=subname         [, {CONSNAME C}=consname]         [, {INITRTN I}=initrtn[, {INITPARM P}=initparm]]         }         {         {DEACTIVATE DEACT}, {SUBNAME SUB S}=subname         }         {         {ACTIVATE ACT}, {SUBNAME SUB S}=subname         }</pre>
<p><b>Description:</b> Dynamically add, activate, or deactivate a subsystem.</p>
<p><b>ADD</b> Dynamically adds a subsystem.</p>
<p><b>DEACTIVATE or DEACT</b> Specify that a subsystem be dynamically deactivated.</p> <p><b>Note:</b> You can only issue the DEACTIVATE command if the target subsystem is dynamic and permits the use of the SETSSI command.</p>
<p><b>ACTIVATE or ACT</b> Specify that a subsystem be dynamically activated.</p> <p><b>Note:</b> You can only issue the ACTIVATE command if the target subsystem is dynamic and permits the use of the SETSSI command.</p>
<p><b>SUBNAME or SUB or S=subname</b> The subsystem name to be dynamically added, deactivated, or activated.</p> <p>Note that the SUBNAME parameter applies to the ADD command, the DEACTIVATE command, and the ACTIVATE command.</p>
<p><b>CONSNAME or C=consname</b> The name of the console to which messages that SSI issues are routed. CONSNAME, an optional parameter two to eight bytes long, is passed to the routine named on the INITRTN keyword (if specified).</p>
<p><b>INITRTN or I=initrtn</b> The name of the subsystem initialization routine. INITRTN is an optional parameter, one to eight characters long. Each character may be alphabetic, numeric, or national (#, @, or \$) except the first, which must be non-numeric.</p>
<p><b>INITPARM or P=initparm</b> The input parameter the system passes to the subsystem initialization routine. INITPARM is an optional parameter. It can be no more than sixty characters long.</p>

## SETXCF Command

### SETXCF Command

#### SETXCF

```
SETXCF COUPLE, {PSWITCH }
                { }
                {ACOUPLE=(alternatedsname[,alternatevolume]) }
                { }
                {INTERVAL=timeinterval }
                { }
                {OPNOTIFY=timeinterval }
                { }
                {CLEANUP=timeinterval }
                { }
                {MAXMSG=defaultmaxmsgbuffers }
                { }
                {RETRY=defaultretrylimit }
                { }
                {CLASSLEN=defaultclasslength }
                { }
                {TYPE=(name[,name]...), }
                { {PCOUPLE=(primarydsname[,primaryvolume]) } }
                { {ACOUPLE=(alternatedsname[,alternatevolume]) } }
                { {PSWITCH } }
```

#### Description:

Switch the current alternate XCF couple data set to the primary XCF couple data set. Specify an alternate XCF couple data set. Change options specified in the COUPLExx parmlib member.

**PSWITCH** Switch the current alternate XCF couple data set to the primary XCF couple data set.

**ACOUPLE=(alternatedsname,alternatevolume)**  
Specify the data set to be used as alternate XCF couple data set.

**INTERVAL=timeinterval**  
Specify the length of the failure detection interval for the system.

**OPNOTIFY=timeinterval**  
Specify how long a system must appear to be inoperative before XCF notifies the operator.

**CLEANUP=timeinterval**  
Specify the time interval that XCF waits for multisystem applications to complete cleanup functions.

**MAXMSG=defaultmaxmsgbuffers**  
Specify the default value for the maximum amount of message buffers. The MAXMSG value must be a number from 1 to 999999.

**RETRY=defaultretrylimit**  
Specify the default value for the retry limit. The RETRY value must be a number from 3 to 255.

**CLASSLEN=defaultclasslength**  
Specify the default message length for the transport classes.

**TYPE=(name,[name]...)**  
Specify the type of data, other than sysplex data, stored in this couple data set.

**PCOUPLE** Specify the data set to use as the primary couple data set.

**ACOUPLE** Specify the data set to use as the alternate couple data set.

**PSWITCH** Specify that the current alternate couple data set becomes the primary couple data set.

## SETXCF Command

```
SETXCF FORCE,  
  {STRUCTURE,STRNAME=(strname[,strname]...)}  
  {CONNECTION,STRNAME=strname,CONNAME={{conname[,conname]...}|ALL}}  
  {STRDUMP,STRNAME=strname[,STRDUMPID=strdumpid]}  
  {STRDUMPSERIAL,STRNAME=strname[,STRDUMPID=strdumpid]}
```

### Description:

Clean up resources related to structures in a coupling facility. The resource can be either a structure actively in use in the sysplex, or a dump associated with structures pending deallocation.

### **STRUCTURE,STRNAME=(strname[,strname]...)**

Specify the name of one or more coupling facility structures of which the system is to force deletion.

### **CONNECTION**

Specify that the system is to force the deletion of a failed-persistent connection.

#### **STRNAME=strname**

The name of the structure that contains the failed-persistent connection.

#### **CONNAME={{conname[,conname]...}|ALL}**

The name of one or more failed-persistent connections to delete from the named structure.

**STRDUMP** Specify that the system is to force the deletion of a structure dump.

#### **STRNAME=strname**

The name of the structure for which to delete the structure dump.

#### **STRDUMPID=strdumpid**

The unique identifier of the structure dump to delete.

### **STRDUMPSERIAL**

Specify that the system is to release its dumping serialization for a coupling facility structure.

#### **STRNAME=strname**

The name of the structure whose dump serialization the system is to release.

#### **STRDUMPID=strdumpid**

The unique identifier of the structure dump associated with the structure for which the system is to release dump serialization.

## SETXCF Command

```

SETXCF MODIFY, {PATHIN, {DEVICE=( [/]indevnum[, [/]indevnum]... ) } }
                { STRNAME=(strname[, strname]...) } }
                { [, MAXMSG=maxmsgbuffers] } }
                { [, RETRY=retrylimit] } }
                { PATHOUT, {DEVICE=( [/]outdevnum[, [/]outdevnum]... ) } }
                { STRNAME=(strname[, strname]...) } }
                { [, CLASS=classname] } }
                { [, MAXMSG=maxmsgbuffers] } }
                { [, RETRY=retrylimit] } }
                { LOCALMSG, MAXMSG=maxmsgbuffers } }
                { [, CLASS=class-name] } }
                { CLASSDEF, CLASS=classname } }
                { [, CLASSLEN=classlength] } }
                { [, MAXMSG=defaultmaxmsgbuffers] } }
                { [, ADDGROUP=(groupname[, groupname]...) ] } }
                { [, DELGROUP=(groupname[, groupname]...) ] } }

```

### Description:

Change current XCF parameters.

#### **PATHIN,DEVICE=( [/]indevnum[, [/]indevnum]... ) [,MAXMSG=maxmsgbuffers][,RETRY=retrylimit]**

Specify the device numbers of inbound signalling paths. RETRY modifies the retry limit and MAXMSG modifies the amount of the message buffer space. You must specify at least one of the MAXMSG and RETRY keywords. The MAXMSG value must be a number from 1 to 999999. The RETRY value must be a number from 3 to 255.

#### **PATHIN,STRNAME=(strname[, strname]...)**

Specify the name of one or more coupling facility structures to be modified.

#### **PATHOUT,DEVICE=( [/]outdevnum[, [/]outdevnum]... ) [CLASS=classname] [MAXMSG=maxmsgbuffer][RETRY=retrylimit]**

Specify the device numbers of outbound signalling paths. RETRY modifies the retry limit, CLASS modifies the transport class assignment, and MAXMSG modifies the amount of message buffer space. You must specify at least one of the MAXMSG, CLASS, and RETRY keywords. The MAXMSG value must be a number from 1 to 999999.

#### **PATHOUT,STRNAME=(strname[, strname]...)**

Specify the name of one or more coupling facility structures to be modified.

#### **LOCALMSG,MAXMSG=maxmsgbuffers[,CLASS=class-name]**

Modify the amount of message buffer space made available for local message traffic. CLASS indicates the name of the class affected.

#### **CLASSDEF,CLASS=classname [,CLASSLEN=classlength [,MAXMSG=defaultmaxmsgbuffers]]**

Specify the transport class to be modified. CLASSLEN modifies the message length, MAXMSG modifies the message buffer space. You must specify at least one of the CLASSLEN, MAXMSG, ADDGROUP, and DELGROUP keywords. The MAXMSG value must be a number from 1 to 999999.

#### **ADDGROUP=(groupname[, groupname]...)**

Specify groups to be added to the set of groups assigned to the transport class.

#### **DELGROUP=(groupname[, groupname]...)**

Groups to be deleted from the set of groups assigned to the transport class.

```

SETXCF PRSMPOLICY, {DEACTIVATE|ACTIVATE=memname}

```

### Description:

Activate an XCF PR/SM policy or deactivate a current active XCF PR/SM policy.

#### **ACTIVATE=memname**

Specify the member name in SYS1.PARMLIB that contains the XCF PR/SM policy to be activated.

#### **DEACTIVATE**

Specify that all XCF PR/SM policy processing is to be stopped.

## SETXCF Command

```

SETXCF START, {CLASSDEF, CLASS=classname }
              { [ , CLASSLEN=classlength ] }
              { [ , MAXMSG=maxmsgbuffers ] }
              { [ , GROUP=(groupname[,groupname]...) ] }
              { }
              { PATHIN, {DEVICE=([/]indevnum[,[/]indevnum]...) } }
              { {STRNAME=(strname[,strname]...) } }
              { [ , MAXMSG=maxmsgbuffers ] }
              { [ , RETRY=retrylimit ] }
              { }
              { PATHOUT, {DEVICE=([/]outdevnum[,[/]outdevnum]...) } }
              { {STRNAME=(strname[,strname]...) } }
              { [ , MAXMSG=maxmsgbuffers ] }
              { [ , RETRY=retrylimit ] }
              { [ , CLASS=classname ] }
              { }
              { POLICY, TYPE=name, POLNAME=polname }
              { }
              { REBUILD, {POPULATECF, CFNAME=cfname } }
              { {DUPLX, } }
              { {STRNAME=(strname[,strname]...) } }
              { {CFNAME=(cfname[,cfname]...) } }
              { [ , LOCATION={NORMAL|OTHER} ] }
              { [ , LESSCONN={TERMINATE|CONTINUE} ] }
              { }
              { ALTER, STRNAME=strname, SIZE=size }
              { }

```

### Description:

Start signalling paths and define transport class definitions for use by XCF.

#### CLASS=classname

Specify the name of the transport class to which outbound signalling paths are assigned.

#### CLASSLEN=classlength

Specify the message length for the transport class.

#### GROUP=(groupname[,groupname]..)

Assign one or more groups to the transport class.

#### PATHIN,DEVICE=([/]indevnum[,[/]indevnum]...)

Specify the device numbers of inbound signalling paths XCF can use.

#### PATHIN,STRNAME=(strname[,strname]...)

Specify the name of one or more coupling facility structures that XCF can use as inbound signaling paths.

#### PATHOUT,DEVICE=([/]outdevnum[,[/]outdevnum]...)

Specify the device numbers of outbound signalling paths XCF can use.

#### PATHOUT,STRNAME=(strname[,strname]...)

Specify the name of one or more coupling facility structures that XCF can use as outbound signaling paths.

#### CLASSDEF,CLASS=classname

Specify a definition for a new transport class.

#### POLICY,TYPE=name

Specify the *name* of the service that is using the couple data set for policy data.

#### POLICY,POLNAME=polname

Specify the name of the policy to be made active.

## SETXCF Command

**REBUILD,POPULATECF**

Specify the name of the coupling facility to populate.

**REBUILD,DUPLEX**

Specify the name of one or more coupling facility structures to duplex in another coupling facility.

**REBUILD,STRNAME=(strname[,strname]...)**

Specify the name of one or more coupling facility structures to rebuild in the same or another coupling facility.

**REBUILD,CFNAME=(cfname[,cfname]...)**

Specify the name of one or more coupling facilities for which all structures other than XCF signalling structures are to be rebuilt.

**LOCATION={NORMAL|OTHER}**

Specify the location where the new structure can be rebuilt.

**ALTER,STRNAME=strname**

Specify the name of a coupling facility structure for which structure alter is to be initiated.

**SIZE=size** Specify the target size of the coupling facility structure to be altered.

**MAXMSG=maxmsgbuffers**

Specify (1) the maximum amount of message buffer space XCF can use to receive or send messages through the signal paths; (2) the default amount of message buffer space allotted for user messages sent in transport class.

**RETRY=retrylimit**

Specify the retry limit for the inbound or outbound signalling paths. The RETRY value must be a number from 3 to 255.

## SETXCF Command

```
SETXCF STOP, {PATHIN, {DEVICE=( [/] indevnum [, [/] indevnum] ... ) } }  
             { STRNAME=(strname [, strname] ...) } }  
             { [ , UNCOND=NO | YES] } }  
             { PATHOUT, {DEVICE=( [/] outdevnum [, [/] outdevnum] ... ) } }  
             { STRNAME=(strname [, strname] ...) } }  
             { [ , UNCOND=NO | YES] } }  
             { CLASSDEF, CLASS=classname } }  
             { POLICY, TYPE=name } }  
             { REBUILD, {POPULATECF, CFNAME=cfname} } }  
             { {DUPLEX, } } }  
             { STRNAME=(strname [, strname] ...) } }  
             { { , KEEP=NEW | OLD } } }  
             { CFNAME=(cfname [, cfname] ...) } }  
             { ALTER, STRNAME=strname } }
```

### Description:

Remove XCF signalling paths and transport class definitions.

#### **PATHIN,DEVICE=( [/] indevnum [, [/] indevnum] ... )**

Specify the device numbers of inbound signalling paths XCF should no longer use.

#### **PATHIN,STRNAME=(strname [, strname] ...)**

Specify the name of one or more coupling facility structures that XCF should no longer use.

#### **PATHOUT,DEVICE=( [/] outdevnum [, [/] outdevnum] ..)**

Specify the device numbers of outbound signalling paths XCF should no longer use.

#### **PATHOUT,STRNAME=(strname [, strname] ...)**

Specify the name of one or more coupling facility structures that XCF should no longer use.

#### **CLASSDEF,CLASS=classname**

Delete the definition for the specified transport class and free the space allocated for message buffers.

#### **POLICY,TYPE=name**

Specify the name of the service that is using the couple data set for policy data.

#### **REBUILD,STRNAME=(strname [, strname] ...)**

Specify the name of one or more coupling facility structures for which rebuild processing is to stop.

#### **REBUILD,CFNAME=(cfname [, cfname] ...)**

Specify the name of one or more coupling facilities for which rebuild processing is to stop.

#### **ALTER,STRNAME=strname**

Specify the name of the coupling facility structure for which structure alter processing is to stop.

#### **UNCOND=NO or YES**

Specify whether this is an unconditional request.

## SLIP Command

### SLIP Command (SL)

SLIP or SL	
SLIP SET[,options],END	Command for an error event trap (non-PER)
SLIP SET,IF[,options],END	Command for an instruction fetch PER trap
SLIP SET,SB1[,options],END SLIP SET,SBT[,options],END	Commands for a successful branch PER trap
SLIP SET,SA[,options],END SLIP SET,SAS[,options],END	Commands for a storage alteration PER trap
SLIP MOD[,options]	Command to modify an existing trap
SLIP DEL[,options]	Command to delete an existing trap
<b>Note:</b> <ul style="list-style-type: none"> <li>• SET, MOD, or DEL must be specified and must immediately follow SLIP.</li> <li>• If specified, IF, SB1, SBT, SA, or SAS must immediately follow SET.</li> <li>• END must be specified at the end of all SLIP SET commands.</li> </ul>	

SLIP SET
<pre> SLIP SET  [,ADDRESS=(start[,end])          ]   [,LPAEP=(name[,start[,end]])]   [,LPAMOD=(name[,start[,end]])]   [,NUCEP=(name[,start[,end]])]   [,NUCMOD=(name[,start[,end]])]   [,PVTEP=(name[,start[,end]])]   [,PVTMOD=(name[,start[,end]])]  [,ASID=(asid[,asid]...)]  [,COMP=code[,REASON=code]]  [,DATA=(comparison[,comparison]...)]  [,ERRTYP=(type[,type]...)]  [,JOBNAME={userid   jobname}]  [,JSPGM=name]  [,MODE= (mode[,mode]...[,<u>ANY</u>   EVERY])]  [,PSWASC=(mode[,mode]...)]  [,ACTION=[IGNORE[,option]          ] ]           [(nodump[,nodump]...)[,option] ]           [NOSUP[,option]              ]           [RECORD                      ]           [SVCD[,options]              ]           [TRACE[,options]             ]           [TRDUMP[,options]           ]           [WAIT[,options]              ] </pre>

## SLIP Command

SLIP SET
[,ENABLE   ,DISABLE]
[,IDGROUP=idgroup]
[,MATCHLIM=m] [,MATCHLIM=1 for ACTION=SVCD or ACTION=SYNCSVCD]
[,DEBUG]
[,ID=trapid]
[,OK]
[,RBLEVEL={ERROR   NOTSVRB   PREVIOUS } ]
,END

SLIP SET,IF or SET,SB1 or SET,SBT
SLIP SET,{IF } {SB1} {SBT}
[,LPAEP=(name[,start[,end]]) ] [,LPAMOD=(name[,start[,end]])] [,NUCEP=(name[,start[,end]])] [,NUCMOD=(name[,start[,end]])] [,PVTEP=(name[,start[,end]])] [,PVTMOD=(name[,start[,end]])] [,RANGE=(start[,end])]
[,ASID=(asid[,asid]...)]
[,DATA=(comparison[,comparison]...)]
[,JOBNAME={userid   jobname}]
[,JSPGM=name]
[,MODE= (mode[,mode]...[,ANY   EVERY])]
[,PSWASC=(mode[,mode]...)]
[,ACTION=[(IGNORE[,RECOVERY] )] [(RECOVERY[,REFAFTER] [,REFBEFOR] [,TARGETID])[,options] ] [(STDUMP[,REFAFTER] [,REFBEFOR] [,TARGETID])[,options] ] [(STRACE[,REFAFTER] [,REFBEFOR] [,TARGETID])[,options] ] [(SVCD[,RECOVERY] [,REFAFTER] [,REFBEFOR] [,TARGETID])[,options] ] [(SYNCSVCD[,REFAFTER] [,REFBEFOR] [,TARGETID])[,options] ] [(TRACE[,RECOVERY] [,REFAFTER] [,REFBEFOR] [,TARGETID])[,options] ] [(TRDUMP[,RECOVERY] [,REFAFTER] [,REFBEFOR] [,TARGETID])[,options] ] [(WAIT[,RECOVERY] [,REFAFTER] [,REFBEFOR] [,TARGETID])[,options] ]

## SLIP Command

### SLIP SET,IF or SET,SB1 or SET,SBT

```
[,ENABLE | ,DISABLE]
[,IDGROUP=idgroup]
[,MATCHLIM=m
 |,MATCHLIM=1 for ACTION=SVCD or ACTION=SYNCSVCD
 |,MATCHLIM=50 for ACTION=STDUMP or ACTION=STRACE]
[,PRCNTLIM=p | ,PRCNTLIM=10]
[,DEBUG]
[,ID=trapid]
[,OK]
,END
```

### SLIP SET,SA or SET,SAS

```
SLIP SET,{SA }
      {SAS}
[,ADDRESS=(start[,end])
 |,LPAEP=(name[,start[,end]])
 |,LPAMOD=(name[,start[,end]])
 |,NUCEP=(name[,start[,end]])
 |,NUCMOD=(name[,start[,end]])
 |,PVTEP=(name[,start[,end]])
 |,PVTMOD=(name[,start[,end]])]
[,RANGE=(start[,end])]
[,ASID=(asid[,asid]...)]
[,ASIDSA=(asid | 'jobname'[asid | 'jobname']...)]
[,DATA=(comparison[,comparison]...)]
[,DSSA=(asid.name | 'jobname'.name[,asid.name | 'jobname'.name]...)]
[,JOBNAME={userid | jobname}]
[,JSPGM=name]
[,MODE= (mode[,mode]...[,ANY | EVERY])]
[,PSWASC=(mode[,mode]...)]
[,ACTION=[(IGNORE[,RECOVERY]
 | (RECOVERY[,REFAFTER] [,REFBEFOR] [,TARGETID]) [,options]
 | (STDUMP[,REFAFTER] [,REFBEFOR] [,TARGETID]) [,options]
 | (STRACE[,REFAFTER] [,REFBEFOR] [,TARGETID]) [,options]
 | (SVCD[,RECOVERY] [,REFAFTER] [,REFBEFOR] [,TARGETID]) [,options]
 | (SYNCSVCD[,REFAFTER] [,REFBEFOR] [,TARGETID]) [,options]
 | (TRACE[,RECOVERY] [,REFAFTER] [,REFBEFOR] [,TARGETID]) [,options]
 | (TRDUMP[,RECOVERY] [,REFAFTER] [,REFBEFOR] [,TARGETID]) [,options]
 | (WAIT[,RECOVERY] [,REFAFTER] [,REFBEFOR] [,TARGETID]) [,options]
 ]]
```

## SLIP Command

### SLIP SET,SA or SET,SAS

```
[,ENABLE | ,DISABLE]
[,IDGROUP=idgroup]
[,MATCHLIM=m]
| ,MATCHLIM=1 for ACTION=SVCD or ACTION=SYNCSVCD
| ,MATCHLIM=50 for ACTION=STDUMP or ACTION=STRACE
[,PRCNTLIM=p | ,PRCNTLIM=10]
[,DEBUG]
[,ID=trapid]
[,OK]
,END
```

## SLIP Command

SLIP SET Parameters	
<b>ACTION=IGNORE</b>	Resume normal processing when the event occurs. IGNORE is not valid for PER traps.
<b>ACTION=(nodump[,nodump]...)</b>	Suppress any SVC, SYSABEND, SYSUDUMP, or SYSMDUMP dumps or specific dump types. The values are NODUMP, NOSVCD, NOSYSA, NOSYSM, or NOSYSU.
<b>ACTION=NOSUP</b>	Prevent suppression of dumps requested by the system or a user program, regardless of any existing dump suppression specifications. NOSUP is not valid for PER traps.
<b>ACTION=RECORD</b> or <b>RECORD</b>	Force a logrec data set record for every recovery routine, regardless of what the recovery routine specifies.
<b>ACTION=RECOVERY</b> or <b>RECOVERY</b>	Force PER traps to initiate recovery processing for the interrupted process. RECOVERY is not valid for non-PER traps.
<b>ACTION=REFAFTER</b> or <b>REFAFTER</b>	For a PER trap, specify that a refresh is to occur after any other specified action. The refresh is defined in a REFAFTER=(triplet) parameter.
<b>ACTION=REFBEFOR</b> or <b>REFBEFOR</b>	For a PER trap, specify that a refresh is to occur before any other specified action. The refresh is defined in a REFBEFOR=(triplet) parameter.
<b>ACTION=STDUMP</b>	Write a SLIP system trace record when the trap matches, and schedule an SVC dump when the trap is disabled or deleted.
<b>ACTION=STRACE</b>	Write at least one SLIP system trace record when the trap matches.
<b>ACTION=SVCD</b>	Schedule an SVC dump for the current or failing address space when the trap matches.
<b>ACTION=SYNCSVCD</b>	Schedule a synchronous SVC dump for the current or failing address space when the trap matches.
<b>ACTION=TARGETID</b> or <b>TARGETID</b>	For a non-IGNORE PER trap, specify that a new trap be activated when the previous trap has been deactivated as a result of matching the limit in MATCHLIM. The new trap is identified in a TARGETID=(trapid) parameter.
<b>ACTION=TRACE</b>	Write at least one GTF SLIP trace record when the trap matches.
<b>ACTION=TRDUMP</b>	Write at least one GTF SLIP trace record when the trap matches, and schedule an SVC dump when the trap is deleted or disabled.
<b>ACTION=WAIT</b>	Stop the system and display trap information in message IEE8371.

## SLIP Command

SLIP SET Parameters	
<b>ADDRESS</b> or <b>AD=(start[,end])</b>	For an error detection trap, specify the address or range of addresses within which the error must occur. For storage alteration PER traps, specify the address or range within which the instruction that causes the storage alteration. For an enabled, unlocked, task mode error that is matched against a non-PER trap, the RBLEVEL keyword controls the PSW address that is used to decide if ADDRESS matches.
<b>ASID</b> or <b>AS=(asid[,asid]...)</b>	The address space that must be in control when the error or PER interruption occurs.
<b>ASIDLST</b> or <b>AL=(asid[,asid]...)</b>	The hex address space identifiers of the address space(s) to dump.
<b>ASIDSA</b> or <b>ASA=(asid[,asid]... or 'jobname'[, 'jobname']...)</b>	Specify the address space or the job associated with the address space containing the storage that is being altered.
<b>COMP=code</b>	Specify the system or user completion code associated with the error.
<b>DATA=(comparison[,comparison]...)</b>	Compare a target storage location or general purpose register using a given operator to a given value.
<b>DEBUG</b>	For a non-working trap, indicate which conditions were not met.
<b>DISABLE</b> or <b>D</b>	Indicate that the trap defined is to be initially inactive.
<b>DSPNAME</b> or <b>DN =(asid.name[,asid.name]... or 'jobname'.name[; 'jobname'.name]...)</b>	Specify the data spaces to include in the dump.
<b>DSSA=(asid.name[,asid.name].. or 'jobname'[, 'jobname']...)</b>	Specify the data space or the job associated with the data space containing the storage that is being altered.
<b>ENABLE</b> or <b>EN</b>	Indicate that the trap defined is to be initially active.
<b>END</b> or <b>E</b>	Mark the end of the SLIP SET command.
<b>ERRTYP</b> or <b>ER=(type[,type]...)</b>	Specify one or more error event types.
<b>ID=trapid</b>	Specify an alphanumeric trap identifier.
<b>IDGROUP=idgroup</b>	Specify that the trap is in a group and give the name of the group.
<b>IF</b>	Specify the event as an instruction fetch.
<b>JOBLIST</b> or <b>JL=(jobname[,jobname]...)</b>	Specify the jobs to include in the dump.
<b>JOBNAME</b> or <b>J=userid or jobname</b>	Specify the name of the time-sharing user or the name of the job or task that must be in control for the JOBNAME match test to be satisfied.
<b>JSPGM</b> or <b>JS=name</b>	Specify the name of the job step program that must be in control to satisfy the JSPGM match test. On non-PER traps, JSPGM cause a no-match if the error type being processed is MEMTERM.

## SLIP Command

SLIP SET Parameters	
<b>LIST</b> or <b>LS=(start,end[,start,end]...)</b>	Specify the starting and ending hex addresses of one or more areas of storage to include in an SVC dump.
<b>LPAEP=(name[,start[,end]])</b>	Monitor modules in the link pack area, given <b>name</b> , the name of an entry point within the module. <b>start</b> and <b>end</b> are offsets from the entry point, indicating the range to monitor.
<b>LPAMOD</b> or <b>L=(name[,start[,end]])</b>	Monitor modules in the link pack area, given <b>name</b> , the name of the module. <b>start</b> and <b>end</b> are offsets within the module, indicating the range to monitor.
<b>MATCHLIM</b> or <b>ML=m</b>	Specify to disable the SLIP trap after <b>m</b> matches.
<b>MODE</b> or <b>M=(mode[,mode]..., ANY or EVERY)</b>	Specify the mode(s) that the system must be in for the trap to match. Specifying ANY indicates that any one of them is sufficient to cause a match, while EVERY indicates that all of them are necessary.
<b>NUCEP</b> or <b>NUCMOD</b> or <b>N=(name[,start[,end]])</b>	Monitor modules in the nucleus, given <b>name</b> , the name that identifies the beginning of the area to be monitored. <b>start</b> and <b>end</b> are offsets within the module indicating the range to be monitored.
<b>OK</b>	Omit checking that could result in messages IEE604D and IEE831D.
<b>PRCNTLIM</b> or <b>PL=p</b>	Specify the maximum amount of time that can be spent processing PER interruptions.
<b>PSWASC</b> or <b>PA=(mode[,mode]...)</b>	Specify a PSW address space control (PSWASC) mode that the system must be for the trap to match.
<b>PVTEP=(name[,start[,end]])</b>	Monitor modules in the private area, given <b>name</b> , the name identifying the entry point within the module. <b>start</b> and <b>end</b> are offsets from the entry point indicating the range to monitor.
<b>PVTMOD</b> or <b>P=(name[,start[,end]])</b>	Monitor modules in the private area, given <b>name</b> , the name identifying the beginning of the module. <b>start</b> and <b>end</b> are offsets within the module indicating the range to monitor.
<b>RANGE</b> or <b>RA=(start[,end])</b>	For PER traps, specify the starting and ending hex addresses of the virtual storage area to monitor.
<b>RBLEVEL</b> or <b>RB= ERROR or NOTSVRB or PREVIOUS</b>	Indicate which RB contains the registers for use in resolving indirect addresses or the PSW for use by LPAMOD, NUCMOD, PVTMOD, ADDRESS, and MODE.
<b>REASON=code</b>	The reason code associated with the error.
<b>REFAFTER=(triplet[,triplet]...)</b>	Define the refresh to be taken after the action.
<b>REFDEFOR=(triplet[,triplet]...)</b>	Define the refresh to be taken before the action.

## SLIP Command

SLIP SET Parameters	
<b>REMOTE=(UNCOND or COND,remote)</b>	Specify actions to take within the sysplex, on systems other than the system on which the trap matches. REMOTE specifies the system, action, and dump options, and is only valid when the specified ACTION on the local system is SCVD, SYNCVCD, or WAIT.
<b>SA</b>	Specify the event as a storage alteration.
<b>SAS</b>	Specify the event as a storage alteration caused by a STURA instruction.
<b>SB1</b>	Specify the event as a successful branch that matches on the first instruction in the specified range.
<b>SBT</b>	Specify the event as a successful branch caused by a branch instruction into the specified range or a branch within the specified range.
<b>SDATA=(area[,area]...)</b>	Specify the kind of system control information to dump.
<b>STRLIST=(s-option[,s-option]...)</b>	Specify, by name, the coupling facility structures you want to dump.
<b>SUMLIST=(start,end[,start,end]...)</b>	Specify the starting and ending addresses of one or more areas to include in a summary dump.
<b>TARGETID=(trapid)</b>	Identify the trap to activate when the current trap is deactivated as a result of MATCHLIM.
<b>TRDATA=(STD[,REGS][,list])</b>	Specify the type and content of the SLIP GTF trace record.

SLIP MOD	
SLIP MOD{,ENABLE   ,DISABLE} {,ALL   ,ID=trapid}	
<b>Description:</b>	Modify a SLIP trap.
<b>ENABLE or E</b>	Activate the specified SLIP trap(s).
<b>DISABLE or D</b>	Deactivate the specified SLIP trap(s).
<b>ALL</b>	Modify every SLIP trap present in the system. <b>CAUTION: Make SURE you are aware of all the consequences of the ALL operand.</b>
<b>ID=trapid</b>	Modify only the SLIP trap with identifier <b>trapid</b> .

SLIP DEL	
SLIP DEL{,ALL   ,ID=trapid}	
<b>Description:</b>	Delete one or all SLIP traps.
<b>ALL</b>	Delete every SLIP trap present in the system. <b>CAUTION: Make SURE you are aware of all the consequences of the ALL operand.</b>
<b>ID=trapid</b>	Delete only the SLIP trap with identifier <b>trapid</b> .

## START Command

### START Command (S)

<b>START or S</b>	
S membername[.identifier][,devicetype][/]devnum[,volumeserial] [,parameters][,JOBNAME=jobname][,JOBACCT=acct_info] [,SUB=subsystemname][,keyword=option[,keyword=option]...]	
<b>Description:</b> Start a system task from the console.	
<b>membername</b>	The name of the member that contains the source JCL that invokes the started task. The source JCL can be either a cataloged procedure, residing in a procedure library, or a job. If it is a procedure, the subsystem that selects the job determines which JCL procedure library is called, usually MSTR,JES2 or JES3.
<b>identifier</b>	The user-determined name for the job to be started. If you do not specify an identifier and the started task does not have an IEFORDER DD statement, the system uses the job name as the identifier. If you do not specify an identifier and the started task has an IEFORDER DD statement, the device allocated to that started task becomes the identifier name.
<b>devicetype</b>	The device type of an output device where time-sharing parameters from SYS1.PARMLIB are listed.
<b>[/]devnum</b>	The device number of an output device where time-sharing parameters from SYS1.PARMLIB are listed.
<b>parameters</b>	Program parameters passed to the started program.
<b>volumeserial</b>	The volume serial number of the volume mounted on the device, if <i>devicename</i> or <i>devnum</i> is a tape or direct access device.
<b>JOBNAME=jobname</b>	The job name that will be assigned to the job. <ul style="list-style-type: none"><li>• If the source JCL is a procedure and you omit the JOBNAME keyword, the member name will be assigned as the jobname.</li><li>• If the source JCL is a job and you omit the JOBNAME keyword, the system will use the job name assigned on the JOB statement in the JCL.</li></ul> If you specify the JOBNAME keyword, you cannot specify an <i>identifier</i>
<b>SUB=subsystemname</b>	The name of the subsystem that is to select the job for processing. If SUB= is not specified, the default subsystem will select the task. When the task being started is a subsystem and you omit SUB=, it will be started under MSTR unless the subsystem itself requests to start under the job entry subsystem.
<b>keyword=option</b>	Specify any appropriate keyword to override the corresponding parameter in the cataloged procedure.
<b>Notes:</b> <ol style="list-style-type: none"><li>1. If you specify an option in apostrophes, use uppercase.</li><li>2. If you are overriding a data set name that is 44 characters long, use DSN=, not DSNAME=.</li><li>3. If overriding a symbolic parameter, do not use any DD keywords.</li></ol>	
S APPC,SUB=MSTR[,APPC=(nn[,nn]...[,L])]	
<b>Description:</b> Start the APPC address space.	
<b>APPC,SUB=MSTR</b>	The system is to start the APPC address space from the master scheduler address space.
<b>APPC=(nn,...)</b>	The APPC is to use the APPCPMnn parmlib members. The default member is APPCPM00.
<b>L</b>	The system displays parmlib statements to the console.

## START Command

<b>START or S</b>	
S ASCH,SUB=MSTR[,ASCH=(nn[,nn]...[,L])]	
<b>Description:</b> Start the ASCH address space.	
<b>ASCH,SUB=MSTR</b> The system is to start the ASCH address space from the master scheduler address space.	
<b>ASCH=(nn,...)</b> The APPC is to use the ASCHPMnn parmlib members. The default member is ASCHPM00.	
<b>L</b> The system displays parmlib statements to the console.	
S {GTF membername}[.identifier][,devicetype][,/]devnum[,volumeserial] [[[,MODE={INT DEFER EXT}][,TIME=YES][,DEBUG=YES]]] [,BLOK={numpages nnk nnM}][,MEMBER=xxxxxxx][,REGION=nnnk] [,,{SADMP SA}={nnM nnk}][,,{SDUMP SD}={nnM nnk}] [,,{NOPROMPT NP}][,,{ABDUMP AB}={nnM nnk}] [,keyword=option[,keyword=option]...]	
<b>Description:</b> Start the generalized trace facility (GTF).	
<b>GTF</b>	The name of the IBM-supplied cataloged procedure that invokes GTF.
<b>membername</b>	The name of member that contains the source JCL that invokes GTF.
<b>identifier</b>	The user-determined name identifying this specific GTF session.
<b>devicetype</b>	The device type of the writer to be started.
<b>/]devnum</b>	The device number of the writer to be started.
<b>volumeserial</b>	The serial number of a magnetic tape or direct access volume to receive the trace data.
<b>MODE=INT</b>	Maintain trace data in the GTF address space.
<b>MODE=DEFER</b>	Maintain trace data in GTF address space until operator enters STOP GTF. Then GTF will transfer data to the output data set during end processing.
<b>MODE=EXT</b>	Maintain trace data in an external set.
<b>BLOK=</b>	Reserves common storage buffers to collect GTF data. <b>nnk or nnM</b> The decimal number for the amount of storage in kilobytes or megabytes. <b>numpages</b> The decimal number for the amount of 4096-byte pages of storage.
<b>SADMP</b>	Number of bytes of GTF data that will appear in a stand alone dump.
<b>SDUMP</b>	Number of bytes of GTF data that will appear in an SVC dump.

## START Command

<p><b>START</b> or <b>S</b></p>
<p><b>NOPROMPT</b> If specified, indicates that the operator will not be prompted to specify trace options.</p> <p><b>ABDUMP</b> Number of GTF data that will appear in a SNAP or ABEND dump.</p> <p><b>TIME=YES</b> Time-stamp each logical trace record.</p> <p><b>DEBUG=YES</b> GTF terminates whenever an error is encountered while a trace record is being created.</p> <p><b>MEMBER=xxxxxxx</b> The member of SYS1.PARMLIB to be accessed by this invocation of GTF.</p> <p><b>REGION=nnnnK</b> The maximum size of the GTF address space in bytes.</p> <p><b>keyword=option</b> Specify any appropriate keyword to override the corresponding keyword in the cataloged procedure.</p> <p><b>Note:</b> If you omit <i>devicetype</i>, <i>devnum</i>, or <i>volumeserial</i>, you must enter a comma for the omitted parameter. Do not enter any commas, however, after the last parameter that you specify.</p>
<p>S LLA[,SUB=MSTR][,LLA=xx]</p> <p><b>Description:</b> Start the library lookaside (LLA) address space.</p> <p><b>LLA</b> Invoke the LLA procedure and create the LLA address space.</p> <p><b>LLA=xx</b> Indicate which CSVLLAxx parmlib member LLA is to use.</p> <p><b>SUB=MSTR</b> Indicate that the system is to start the LLA address space from the master scheduler address space.</p>
<p>S {OAM[membername].[.identifier]}[,OAM=xx]</p> <p><b>Description:</b> Start the object access method.</p> <p><b>OAM</b> The name of the IBM-supplied cataloged procedure that invokes OAM.</p> <p><b>membername</b> The name of the member that contains the source JCL that invokes OAM.</p> <p><b>identifier</b> The user-determined name identifying the OAM address space.</p>
<p>S RRS membername[,CTMEM=CTnRRSxx][,GNAME= grpname][,JOBNAME=jobname]</p> <p><b>Description:</b> Start resource recovery services.</p> <p><b>RRS   membername</b> The name of the IBM-supplied cataloged procedure or the member containing the source JCL that invokes RRS.</p> <p><b>CTMEM=CTnRRSxx</b> The CTnRRSxx parmlib member containing the options RRS component trace is to use when RRS starts the trace.</p> <p><b>GNAME= grpname</b> The log group name.</p> <p><b>JOBNAME=jobname</b> The subsystem name defined in the IEFSSNxx member of SYS1.PARMLIB corresponding to RRS.</p>

## START Command

<p><b>START or S</b></p> <pre>S membername[.identifier][,devicetype][/]devnum   [,volumeserial][([,MEMBER={name nn})[,USERMAX=nnnnn]   [,GNAME={name   NONE}])   [,keyword=option[,keyword=option]...]</pre> <p><b>Description:</b> Start TSO/VTAM time-sharing.</p> <p><b>membername</b> The name of the member that contains the source JCL that invokes TSO/VTAM time sharing. Many installations use TCAS as the name.</p> <p><b>identifier</b> The user-determined name identifying the specific time-sharing session.</p> <p><b>devicetype</b> The device type of an output device where time-sharing parameters from SYS1.PARMLIB are listed.</p> <p><b>[/]devnum</b> The device number of an output device where time-sharing parameters from SYS1.PARMLIB are listed.</p> <p><b>volumeserial</b> The volume serial number of the volume mounted on the device, if <i>devicetype</i> or <i>devnum</i> is a tape or direct access device.</p> <p><b>MEMBER=name</b> The name of a member of SYS1.PARMLIB that contains TSO/VTAM time-sharing parameters.</p> <p><b>MEMBER=nn</b> A decimal that forms the name, of the form TSOKEYnn, of the member of SYS1.PARMLIB that contains the TSO/VTAM time-sharing parameters.</p> <p><b>USERMAX=nnnnn</b> The maximum number of TSO/VTAM users that can be logged on at one time.</p> <p><b>keyword=option</b> Specify any appropriate keyword to override the corresponding keyword in the cataloged procedure.</p> <p><b>Note:</b> If you omit <i>devicetype</i>, <i>devnum</i>, or <i>volumeserial</i>, you must enter a comma for the omitted parameter. Do not enter any commas, however, after the last parameter that you specify.</p>
<pre>S {VLF DLF},SUB=MSTR[,NN=xx]</pre> <p><b>Description:</b> Start the virtual lookaside facility (VLF) or the data lookaside facility (DLF).</p> <p><b>VLF,SUB=MSTR</b> Invoke the VLF procedure that starts VLF.</p> <p><b>NN=xx</b> Start VLF using the COFVLFnn member of SYS1.PARMLIB.</p> <p><b>DLF,SUB=MSTR</b> Invoke the DLF procedure that starts DLF.</p> <p><b>NN=xx</b> Start the DLF using the COFDLFnn PARMLIB member.</p>

## START Command

### START or S

```
S {XWTR|membername} [.identifier] [,devicetype|, [/]devnum]
    [,volumeserial][,classes][,keyword=option[,keyword=option]...]
```

**Description:**

Start an external writer.

**XWTR** The name of the IBM-supplied cataloged procedure that invokes the external writer.

**membername**

The name of the member that contains the source JCL that defines the external writer to start.

**identifier** The user-determined name identifying the job to start.

**devicetype** The device type to start.

**[/]devnum** The device number of the device to start.

**volumeserial**

The serial number of the magnetic tape or direct access volume the writer is to use.

**classes** The output classes, in priority sequence, the writer is to process. You may specify up to eight output classes. Do NOT separate them by commas.

**keyword=option**

Specify any appropriate keyword to override the corresponding keyword in the cataloged procedure.

**Note:** If you omit *devicetype*, *devnum*, *volumeserial*, or *classes*, you must enter a comma for the omitted parameter. Do not enter any commas, however, after the last parameter that you specify.

## STOP Command

---

### STOP Command (P)

<b>STOP or P</b>
P [jobname.]identifier[,A=asid]
<b>Description:</b> Stop a started task. <i>jobname</i> The name of the job. <i>identifier</i> The identifier assigned to the job or started task. <b>A=asid</b> The address space identifier, in hexadecimal, of the job, started task, writer, transaction program, or initiator address space to stop.
P {ASCHINT,A=asid}
<b>ASCHINT,A=asid</b> ASCHINT is the generic name for the ASCH initiator and A=asid is the address space identifier, in hexadecimal, of the ASCH initiator to stop.
P DLF
<b>DLF</b> Stop the data lookaside facility (DLF) address space as soon as all DLF objects are disconnected for all users.
P LLA
<b>LLA</b> Stop the LLA address space.
P [OAM. jobname.]identifier
<b>OAM</b> The generic job name of the object access method (OAM). <b>jobname</b> The job name assigned to the object access method (OAM). <b>identifier</b> The user-determined name identifying the OAM address space.
P VLF
<b>VLF</b> Stop VLF with message COF033I.

## STOPMN Command

---

### STOPMN Command (PM)

#### STOPMN *or* PM

```
PM {JOBNAMES[,L={a|cc|cca|name|name-a}]}
   {DSNAME      }
   {SPACE      }
   {STATUS[,L={a|cc|cca|name|name-a}]}
   {SESS[,L={a|cc|cca|name|name-a}]}
}
```

**Description:**

Stop displays initiated in response to the MONITOR command or the MONITOR parameters on the CONSOLE and INIT statements in the CONSOLxx member of SYS1.PARMLIB.

**JOBNAMES** Stop the jobname display specified in the MONITOR JOBNAMES command.

**DSNAME** Stop the display of nontemporary data sets specified in the MONITOR DSNAME command.

**SPACE** Stop the display of available space on direct access volumes specified in the MONITOR SPACE command.

**STATUS** Stop the display of data set names, volume serial numbers, and status specified in the MONITOR STATUS command.

**SESS** Stop the display of time-sharing user identifiers.

**L=a, cc, cca, name, or name-a**

The console where the display appears.

## STOPTR Command

---

### STOPTR Command (PT)

#### STOPTR *or* PT

```
PT {TS }[,L={a  }]
  {JOBS} {cc  }
  {J  } {cca }
  {A  } {name }
      {name-a}
```

**Description:** Stop or reduce displays resulting from the TRACK command.

**TS** Stop the display of active time-sharing users.

**JOBS *or* J** Stop the display of active jobs, MOUNT commands in execution, and active tasks.

**A** Stop the display of active jobs, active time-sharing users, MOUNT commands in execution, and active tasks.

**L=a, cc, cca, name, *or* name-a**

The display area (a), console (cc), both (cca), console name (name), or both (name-a) of the active MCS console where the display appears.

## SWAP Command

---

### SWAP Command (G)

<b>SWAP or G</b>
G {OFF} {ON }
G [/]devnum1,[/]devnum2  <b>Description:</b> Initiate an operator request for dynamic device reconfiguration (DDR) or activate or deactivate system-initiated DDR. <b>Note:</b> To swap between a UCB containing a 3-digit device number and a UCB containing a 4-digit device number, both must be for DYNAMIC devices. <b>[/]devnum1,[/]devnum2</b> Move a volume from a device with device number <i>devnum1</i> to a device with device number <i>devnum2</i> . <b>OFF or ON</b> Activate (ON) or deactivate (OFF) system-initiated DDR.

## SWITCH Command

---

### SWITCH Command (I)

<b>SWITCH</b> <i>or</i> <b>I</b>
<pre>I {SMF                }   {   {CN={{consname1}    }   {  {{consname1,consname2}} }   {  {{consname1,consname1}} }</pre>
<b>Description:</b> Switch the recording of SMF data from one data set to another.
<b>SMF</b> The generic aggregate name of the data being collected. All SMF data in storage is written out before the transfer is made.
<b>CN=(consname1)</b> The console whose attributes the system is to switch.
<b>CN=(consname1,consname2)</b> Indicate that the system is to append the attributes of the console specified for consname1 with the attributes of the console specified for consname2.
<b>CN=(consname1,consname1)</b> The console whose attributes the system is to remove from its alternate console.

## TRACE Command

### TRACE Command

TRACE	
TRACE	[STATUS ]
	[ST[,nnnK][,BR={ON OFF}] ]
	[ST[,OFF] ]
	[MT[,nnnK][,OFF] ]
	[CT{,WTRSTART=membername[,WRAP NOWRAP] } ]
	[CT{,WTRSTOP=jobname} ]
	[CT{[,ON ] ,COMP=name[,SUB=(sub)] [,PARM=mem] } ]
	[ ] ,nnnK ]
	[ ] ,nnnnM ]
	[ ] ,OFF ]
<b>Description:</b>	
Start, stop, modify, or display status of a trace. Specify component trace operands by using the appropriate form of the REPLY command, which is documented under REPLY or R.	
<b>STATUS</b>	Display the current status of system trace and master trace, including trace table sizes and on/off status of system trace functions.
<b>ST,nnnK</b>	Specify the amount of central storage set aside for each processor's system trace table entries.
<b>ST,OFF</b>	Stop system trace and free the system trace table.
<b>ST,BR=ON or OFF</b>	Turn on or turn off the branch tracing function of system trace.
<b>MT,nnnK or MT,OFF</b>	Specify the master trace table size or stop master trace (OFF).
<b>CT,ON,COMP=name or CT,OFF,COMP=name</b>	Start (ON) or stop (OFF) tracing for the requested component. A HEAD level defined with HEADOPTS=NO cannot be turned on.
<b>CT,nnnK,COMP=name or CT,nnnnM,COMP=name</b>	Start tracing for the requested component using the specified size of the component trace table.
<b>CT,COMP=name</b>	Alter tracing for a specific component, where <b>name</b> is the external name defined to component trace supplied by the programmer.
<b>CT,SUB</b>	Specify a single trace for a component that supports multiple traces. The (limit of one) subname is only supplied by components that defined the COMP=name with the HEAD keyword in the CTRACE DEFINE processor.
<b>PARM=mem</b>	Specify the member of SYS1.PARMLIB containing the options to use for tracing.
<b>WTRSTART=membername</b>	The name of the member containing the source JCL that invokes a component trace external writer. The member can be a procedure in SYS1.PROCLIB or a job. When the data set becomes full, a specification or default of WRAP directs the system to overwrite the data set from the beginning, while a specification of NOWRAP directs the system to stop writing to the data set.
<b>WTRSTOP=jobname</b>	The writer that the system is to stop. If you specify or default NOFLUSH, the writer stops immediately. If you specify FLUSH, the writer will stop when it has finished writing out its current buffers.

## TRACK Command

---

### TRACK Command (TR)

<b>TRACK or TR</b>	
TR {TS JOBS J A}[,LIST ,L][,USERID=userid][,L={a }] {cc } {cca } {name } {name-a}	
<b>Description:</b>	Request a periodic display of job information on display consoles.
<b>TS, JOBS, J, or A</b>	For any of these operands, the number of active batch jobs, started tasks, and logged-on time-sharing users, and the maximum number of time-sharing users allowed to be logged on under TSO/VTAM will be displayed periodically.
<b>LIST or L</b>	For TR JOBS or TR A, display detailed information for active jobs periodically. For TR TS or TR A, display detailed information for each logged-on time-sharing user periodically.
<b>USERID=userid</b>	A filter to show only work running for the specified userid. This userid can be specified on the USER= keyword in JCL or the user that requested this transaction.
<b>L=a, cc, cca, name, or name-a</b>	The display area (a), console (cc), both (cca), console name (name), or both (name-a) of the active MCS console where the requested display is to appear.

## UNLOAD Command

---

### UNLOAD Command (U)

**UNLOAD** or **U**

U [/]devnum

**Description:**

Unload mounted tape or DASD volumes, where *devnum* is the device number of the I/O device containing the volume to be unloaded.

**[/]devnum** The device number of the device to unload.

## VARY Command

---

### VARY Command (V)

<p><b>VARY</b> <i>or</i> <b>V</b></p> <p>VARY CN(conspec1 *),{ACTIVATE ACT}</p> <p><b>Description:</b> Place system console in problem determination mode.</p> <p><b>CN(conspec1</b> <i>or</i> *) Place a specified system console in problem determination mode.</p> <p><b>conspec1</b>     The console id or name of the console device.</p> <p><b>*</b>             The console that you are currently issuing commands from.</p> <p><b>ACTIVATE</b> <i>or</i> <b>ACT</b> The system is to activate problem determination mode for the specified console.</p>
<p>VARY CN(conspec1 *),{DEACTIVATE DEACT}</p> <p><b>Description:</b> Remove the system console from problem determination mode.</p> <p><b>CN(conspec1</b> <i>or</i> *) Remove a specified system console in problem determination mode.</p> <p><b>conspec1</b>     The console id or name of the console device.</p> <p><b>*</b>             The console that you are currently issuing commands from.</p> <p><b>DEACTIVATE</b> <i>or</i> <b>DEACT</b> The system is to deactivate problem determination mode for the specified console.</p>

## VARY Command

```
V CN{ (*|conspec1[,conspec1]... )}
      [,ALTGRP=(name|{*NONE*})]
      [,AMSCOPE=([*][,name[,name]...])]
      [,AUTH={ALL|INFO|MASTER}([SYS][,IO][,CONS])}]
      [,AROUT=(rtcode[,rtcode]...)]
      [,DMSCOPE=([*][,name[,name]...])]
      [,DROUT=(rtcode[,rtcode]...)]
      [,MSCOPE=(*ALL)|{([*][,name[,name]...])}]
      [,OFFLINE|,ONLINE[,SYSTEM=sysname][,FORCE]]
      [,ROUT={ALL|NONE}(rtcode[,rtcode]...)]
      [,UD={Y|N} ]
```

### Description:

Assign and control MCS consoles

**CN** Change the indicated authority for the specified console id(s) or console name(s).

**conspec1** The console id or name of the console device.

**\*** The console from which you are currently issuing commands.

### **ALTGRP=name or \*NONE\***

Specify the name of an alternate console group.

### **AMSCOPE=\* or (name,name...)**

Allows the operator to add system names to the system names list for the message scope attribute of the specified console.

### **AROUT=rtcode**

The system is to add the specified routing code(s) or the routing codes in the specified range(s) to the routing codes already defined for the console.

### **AUTH=MASTER,ALL,INFO or (SYS, IO, CONS)**

The system command groups that the console is authorized to enter.

**DMSCOPE=** Allows the operator to delete system names from the system names list for the message scope attribute of the specified console.

### **DROUT=rtcode**

The system is to remove the specified routing code(s) or the routing codes in the specified range(s) from the routing codes already defined for the console.

**MSCOPE=** Initialize the message scope attribute for the specified console.

**OFFLINE** Deactivate an MCS console and place the device in offline status.

**ONLINE** Activate a device defined in the CONSOLxx parmlib member as an MCS console.

### **SYSTEM=sysname**

The system on which to activate the console.

**FORCE** Activate an MCS console even when it is being kept offline by a configuration manager.

### **ROUT=ALL, NONE, or rtcode**

The routing codes of messages the console(s) can receive.

**UD={Y or N}** Whether the specified console can receive undelivered messages.

## VARY Command

```
V (conspec[,conspec]...),{OFFLINE}
                        {ONLINE }
```

### Description:

Place a secondary console online or offline.

#### conspec

- [/]devnum** The device number of the console.
- O-[/]devnum** The device number of the console preceded by the literal 'O-' to designate a device with output-only capability.
- nnnnnnnn** The name of the console device as specified in the CONSOLxx SYS1.PARMLIB member CONSOLE statement.
- O-nnnnnnnn** The name of the console device as specified in the CONSOLxx SYS1.PARMLIB member CONSOLE statement preceded by the literal 'O-' and designates an output-only device.
- [/]lowdevnum-[/]highdevnum**  
The device numbers that are the lower and upper bounds of a range of devices.

**ONLINE** The system is to bring the specified device(s) online.

**OFFLINE** The system is to take the specified device(s) offline.

```
V {conspec2|(conspec2[,conspec2]...),CONSOLE
  [,ALTCONS=conspec2]
  [,AROUT=(rtcode[,rtcode]...)]
  [,AUTH={ALL|MASTER|INFO}([SYS][,IO][,CONS])]}
  [,DROUT=(rtcode[,rtcode]...)]
  [,ROUT={ALL|NONE}(rtcode[,rtcode]...)]}
```

### Description:

Assign and control MCS consoles.

**conspec2** One of the following:

- [/]devnum** The device number of the device.
- O-[/]devnum** The device number preceded by the literal 'O-' to designate a device with output-only capability.
- nnnnnnnn** The name of the console device.
- O-nnnnnnnn**  
The name of the console device as specified in the preceded by the literal 'O-' and designates an output-only device.

**CONSOLE** The unit is to be an active console.

#### AUTH=MASTER, ALL, INFO or (SYS, IO, CONS)

The system command groups that the console is authorized to enter. Enter them in any order. The system accepts this parameter only from the master console.

#### ROUT=ALL, NONE, or rtcode

The routing codes of messages the console(s) can receive.

#### AROUT=rtcode

The system is to add the specified routing code(s) or the routing codes in the specified range(s) to the routing codes already defined for the console.

#### DROUT=rtcode

The system is to remove the specified routing code(s) or the routing codes in the specified range(s) from the routing codes already defined for the console.

#### ALTCONS=conspec2

The device number or name of the alternate console.

## VARY Command

```
V {[/]devnum},MSTCONS
  {conname }
```

### Description:

Change the master console.

**[/]devnum** The device number of the device the system is to assign as the master console.

**conname** The name of the device the system is to assign as the master console.

**MSTCONS** The system is to switch the master console.

```
V [[/]devnum],HARDCPY[,CMDS|,NOCMDS|,STCMDS|,INCMDS]
  {conname          [,AROUT=(rtcode[,rtcode]...)]
  SYSLOG            [,DROUT=(rtcode[,rtcode]...)]
  OPERLOG           [,ROUT={ALL|NONE          }]}
                    {(rtcode[,rtcode]...)}
                    [,UD={Y|N} ]
                    [,OFF]
```

### Description:

Control the hardcopy message set and the hardcopy medium.

**[/]devnum** The device number of the device the system is to assign as the master console.

**conname** The name of a printer console that is to become the hardcopy medium.

**SYSLOG** The system log is to become the hardcopy medium.

**OPERLOG** The operations log to activate or deactivate.

**HARDCPY** The system is to change the status of the hardcopy medium or the hardcopy message set, or both, depending on the options specified.

**NOCMDS** The system is not to include operator commands or their responses in the hardcopy message set.

**INCMDS** The system is to include operator commands and their responses, excluding any status displays, in the hardcopy message set.

**STCMDS** The system is to include operator commands and their responses, including static status displays, in the hardcopy message set.

**CMDS** The system is to include all operator commands and their responses, including status displays (both static and dynamic), in the hardcopy message set.

**OFF** The system is to stop the hardcopy medium; that is, the hardcopy medium no longer receives the hardcopy message set. If you specify *conname*, *devnum*, or **SYSLOG**, you must specify the currently active hardcopy medium. When **OFF** is specified, it must be the last parameter.

**ROUT={ALL or NONE or rtcode or rtcode-rtcode}**

The routing codes that the system is to use to select messages for the hardcopy message set.

**AROUT={rtcode or rtcode-rtcode}**

The system is to include messages with the specified routing code or codes in the hardcopy message set, in addition to any messages included because of prior routing code specifications.

**DROUT={rtcode or rtcode-rtcode}**

The system is to stop including messages with the specified routing code or codes in the hardcopy message set.

**UD={Y or N}** Indicate whether UD messages (those with descriptor codes 1, 2, 3, 11, or 12, and WTORs) that are not received by another console are to be delivered to the system console (for those processor models that support a system console).

## VARY Command

```
V {(devspec[,devspec]...),{[AUTOSWITCH|AS] [,ON|OFF]}}
```

### Description:

Turn on or off the AUTOSWITCH attribute of a tape device.

**devspec** One of the following:

**[/]devnum** The device number of a 3480 or 3490 tape drive.

**[/]lowdevnum-[/]highdevnum**

The device numbers of the lower and upper bounds of a range of devices.

### AUTOSWITCH or AS

The system is to turn on or off the AUTOSWITCH attribute of the tape device or range of tape devices you specified.

**ON** The system is to turn on the AUTOSWITCH attribute for the device or devices.

**OFF** The system is to turn off the AUTOSWITCH attribute for the device or devices.

```
V {(devspec[,devspec]...),{ONLINE[,UNCOND] [,FORCE] }
{devspec } { |,SHR }
{ |,RESET }
{ }
{OFFLINE[,FORCE] } }
```

### Description:

Place an I/O device or range of devices online or offline.

**devspec** One of the following:

**[/]devnum** The device number.

**O-devnum** The device number preceded by the literal 'O-' to designate a device with output-only capability.

**nnnnnnnn** The name of the console device.

**O-nnnnnnnn**

The name of the console device as specified in the preceded by the literal 'O-' to designate an output-only device.

**[/]lowdevnum-[/]highdevnum**

The device numbers of the lower and upper bounds of a range of devices.

### ONLINE,FORCE

The system is to put the specified device(s) or range(s) of devices online, even if they are being kept offline by a configuration manager.

### ONLINE,SHR

The system permits the 3480 you bring online to be shared among other processors.

### ONLINE,RESET

The system is to bring online a device that is being kept offline because of a control-unit-initiated reconfiguration (C.U.I.R.).

### ONLINE,UNCOND

The system is to bring the specified device(s) or range(s) of devices online, even if there are no paths to the devices or the devices are pending offline and boxed.

### OFFLINE,FORCE

The system is to put the specified device(s) or range(s) of devices immediately in pending-offline status, even if they are currently active, allocated, or reserved.

## VARY Command

```
V GRS{({sysname|*|ALL}),{RESTART|R}}
      {
      {({sysname|*}),{QUIESCE|Q}}
      {
      {sysname},{PURGE|P}
      }
```

### Description:

Control a global resource serialization ring complex.

**sysname** The name of the system (specified on the SYSNAME system parameter).

**\*** The name of the current system (the system on which you enter the command).

**ALL** You want to change the status of all systems in the global resource serialization ring.

**RESTART or R**

You want to restore a quiesced (or inactive) system to the global resource serialization ring or rebuild a global resource serialization ring that has been disrupted (when rebuilding a disrupted ring, you can specify ALL with RESTART).

**QUIESCE or Q**

You want to temporarily remove a system from the global resource serialization ring.

**PURGE or P**

You want to remove a quiesced system from the global resource serialization complex.

## VARY Command

```
V PATH
{([/]devnum, chp[, [/]devnum, chp]...) }
{ }
{([/]devnum[, [/]devnum]...), chp }
{ [ , ([/]devnum[, [/]devnum]...), chp]... }
{ }
{([/]lowdevnum-[/]highdevnum) , [/]lowdevnum-[/]highdevnum]...), chp }
{ [ , ([/]lowdevnum-[/]highdevnum[, chp]... ) }
{ }
{ (cfname, chp[, cfname, chp]...) }
{ }
{ (cfname[, cfname]...) , chp }
{ [ , (cfname[, cfname]...) , chp]... }

{ , ONLINE[, FORCE] }
{ , OFFLINE[, UNCOND] }
```

### Description:

Place an I/O path or paths online or offline.

**PATH** The system is to move the specified path(s) online or offline.

**[/]devnum** The device number of a device associated with the path the system is to move online or offline.

**cfname** The name of a coupling facility associated with path(s) the system is to logically move online or offline.

**chp** The channel path associated with the path(s) the system is to move online or offline.

### ONLINE, FORCE

The system is to bring the path back online that had been taken offline by the control unit initiated reconfiguration (C.U.I.R.) service.

### OFFLINE, UNCOND

The system is to take the path offline. The system rejects the VARY PATH, OFFLINE, UNCOND command if the specified path is the last available path to a device that is any one of the following:

- Allocated
- In use by the system
- A console
- Assigned to JES3

## VARY Command

```
V SMS, {CFCACHE(cachename), {ENABLE|E } }
      {
      {QUIESCE|Q}
      }
      {CFVOL(volid), {ENABLE|E } }
      {
      {QUIESCE|Q}
      }
      {MONDS(dsname[,dsname...]), {ON|OFF} }
      {SHCDS(shcdsname), {NEW } }
      {
      {NEWSPARE}
      }
      {
      {DELETE }
      }
      {SMSVSAM, {ACTIVE } }
      {
      {SPHERE(spherename), {ENABLE|E}}
      }
      {
      {FALLBACK }
      }
      {
      {TERMINATESERVER }
      }
      {
      {FORCEDELETELOCKSTRUCTURE }
      }
```

### Description:

Change the state of coupling facility cache structures and volumes over a sysplex wide scope.

### SMS,CFCACHE

The name of the cache structure whose state you want to change.

### CFVOL

The id of the volume whose state you want to change.

### MONDS

The names of data sets eligible (ON) or ineligible (OFF) for coupling facility statistical monitoring.

### SHCDS

The name of a sharing control data set to add or delete.

### SMSVSAM

Actions to manage SMSVSAM data sets or the SMSVSAM server.

```
V SMS, {DRIVE|DRI|LIBRARY|LIB} (name), {ONLINE|ON }
      {OFFLINE|OFF}
```

### Description:

Place an optical drive or optical library online or offline.

### DRIVE(name) or DRI(name)

The name of the optical drive to vary online or offline.

### LIBRARY(name) or LIB(name)

The name of the optical library to vary online or offline.

### ONLINE or ON

Specify that the drive or library be varied on.

### OFFLINE or OFF

Specify that the drive or library be varied off.

## VARY Command

```
V SMS, {LIBRARY} {name[, {systemid[, systemid]...}]}, {ONLINE|ON }
      {LIB }      {ALL } {OFFLINE|OFF}
      {_* }      { }
```

### Description:

Place a system-managed tape library online or offline.

#### LIBRARY(name) or LIB(name)

The name of the system-managed tape library to place online or offline.

**systemid** Place online or offline the named system-managed tape library connected to each specified MVS system within the SMS complex. If the library is not connected to a specified MVS system, it issues an error message.

**ALL** Place online or offline the named system-managed tape library connected to all MVS systems in the SMS complex. To specify a system named **ALL** enclose the name in parentheses, as in (ALL).

**\_** Place online or offline the system-managed tape library connected to the system from which the VARY SMS command is issued.

#### ONLINE or ON

Specify that the system-managed tape library is to be brought online.

#### OFFLINE or OFF

Specify that the system-managed tape library is to be taken offline. When a library is taken offline, all devices in that library that are not already offline are taken offline.

```
V SMS, {{STORGRP|SG} (storgrp, [*|ALL|system[, system]...])}, {QUIESCE|Q} [,NEW|,N]
      { } {ENABLE|E }
      {{VOLUME|VOL} (volume, [*|ALL|system[, system]...]) } {DISABLE|D} [,NEW|,N]
```

### Description:

Change the SMS status of a storage group.

#### STORGRP or SG(storgrp[,system,...])

Identify the storage group and, optionally, the system or system group that the SMS status change is to affect. If you omit *system* or specify an *\**, the command affects only the system on which you issue the command. If you specify **ALL**, the command affects all systems or system groups in the complex.

#### VOLUME or VOL(volume[,system,...])

Identify the volume and, optionally, the system that the SMS status change is to affect. If you omit *system* or specify an *\**, the command affects only the system on which you issue the command. If you specify **ALL**, the command affects all systems in the complex.

#### ENABLE or E

SMS is to permit allocation of new and old data sets from the specified storage group or volume on the designated system(s).

#### QUIESCE or Q[,NEW or N]

For QUIESCE, a JES3 system prevents the scheduling of jobs that create new data sets or accessing existing data sets from the specified storage group or volume.

#### DISABLE or D[,NEW or N]

For DISABLE, SMS is *not* to allow allocation or accessing of existing data sets in the specified storage group or volume for a new data set.

## VARY Command

```
V WLM,APPLENV=applenvname,{REFRESH}
                        {QUIESCE|Q}
                        {RESUME}
```

**Description:**

Control an application environment. This command has a sysplex scope.

**WLM,APPLENV=applenvname**

The 1 to 32 character name of the application environment.

**REFRESH** Terminate the server address spaces for an application environment and start new ones in their places.

**QUIESCE|Q** Terminate the server address spaces for an application environment. Queue, but do not select work requests for the application environment.

**RESUME** Restart the server address spaces for an application environment. Queued work requests are eligible for selection.

```
V WLM,POLICY=policyname[,REFRESH]
```

**Description:**

Activate a workload management service policy for a sysplex.

**WLM,POLICY=policyname**

The 1 to 8 character name of the service policy to activate.

**REFRESH** Specify that WLM is to discard historical workload characterization data and then reset and activate the named policy and start data collection anew.

**Note:** Use REFRESH only when directed to do so by IBM Level 2 personnel.

```
V XCF{,systemname},{OFFLINE|OFF}[,RETAIN={YES|NO}][,FORCE]
```

**Description:**

**XCF,systemname,OFFLINE or OFF**

The name of a system that XCF is to remove from the sysplex.

**RETAIN={YES or NO}**

Indicate whether or not XCF, on the remaining systems in the sysplex, is to retain the signalling path resources used to communicate with the system that is removed.

**FORCE** Indicate that XCF will immediately remove the specified system from the sysplex.

## WRITELOG Command

---

### WRITELOG Command (W)

<b>WRITELOG</b> <i>or</i> <b>W</b>	
W [class CLOSE START]	
<b>Description:</b> Control the system log.	
<b>class</b>	The output class to use when printing the contents of the system log.
<b>CLOSE</b>	Close the system log and discontinue the log function. This command is rejected if the log is the hardcopy medium.
<b>START</b>	Restart the system log.

---

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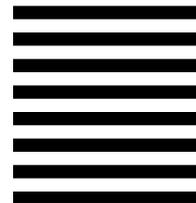
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