# ASG-PreAlert®
# Quick Reference Booklet

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# Preface

This *ASG-PreAlert Quick Reference Booklet* provides a quick and easy way to locate commands and their descriptions used in ASG-PreAlert (herein called PreAlert). PreAlert enables users to perform real-time IDMS system monitoring.

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## About this Publication

This publication consists of these chapters:

- Chapter 1, "Header Commands," provides header commands with their functions.
- Chapter 2, "Common Functionality," provides common commands and keywords with their functions.
- Chapter 3, "IDMS Interface," provides IDMS commands and keywords with their functions.
- Chapter 4, "IDMS Exception Analysis," provides IDMS Exception Analysis commands and keywords with their functions.
- Chapter 5, "PreAlert/MVS," provides PreAlert/MVS commands and keywords with their functions.
- Chapter 6, "MVS Exception Analysis," provides MVS Exception Analysis commands and keywords with their functions.

# Publication Conventions

Allen Systems Group, Inc. uses these conventions in technical publications:

| Convention | Represents |
|---|---|
| ALL CAPITALS | Directory, path, file, dataset, member, database, program, command, and parameter names. |
| Initial Capitals on Each Word | Window, field, field group, check box, button, panel (or screen), option names, and names of keys. A plus sign (+) is inserted for key combinations (e.g., Alt+Tab). |
| `lowercase italic monospace` | Information that you provide according to your particular situation. For example, you would replace *`filename`* with the actual name of the file. |
| `Monospace` | Characters you must type exactly as they are shown. Code, JCL, file listings, or command/statement syntax.<br>Also used for denoting brief examples in a paragraph. |
| S | When preceding a command, an "S" symbolizes a sort field (a line command used for display sequence). |
| + | When preceding a command, a plus sign (+) is an overflow indicator. |

# 1 Header Commands

Header Commands are entered through this entry field:

```
COMMAND:___________
```

Line Commands are entered on the body of the screen. These are the different types of line commands:

**CONTROL.** Entry of selection criteria through positional or keyword parameters, or for functional control of PreAlert.

* = Keyword masking; used for excluding character(s) during selection test.

**SELECTION.** Elements (i.e., tasks, disks, and tapes) for display based on selection criteria.

**DISPLAY.** Exhibits specific information for selected elements.

| Command | Function |
|---|---|
| .= (*a-z*) | Save screen function |
| .<*screen name* | Call screen |
| ./*screen name* | Copy screen into current screen |
| .ASID | Specify target ASID |
| .ASL | Specify automatic screen chaining |
| .AUTHOFF | PreAlert authorization off |
| .AUTHON | PreAlert authorization on |
| .BG*nnn* | Switch to background session with auto-update |
| .BLDS | Activate build screen mode |
| .BLDSOFF | Deactivate build screen mode |
| .CAGO | Cancel automatic screen chaining |
| .CHG | Change line command |
| .COLR | Color screen support on |
| .COLRON | Color screen support on |

| Command | Function |
|---|---|
| .COLROFF | Color screen support off |
| .DEL*nn* | Delete line command |
| .DOWN*nn* | Screen scroll down |
| .DTR | Specify unit for disk trace |
| .DUMP | Display virtual storage address |
| .END | Exit tutorial facility or PreAlert session |
| .ESC | Escape menu option; return to main menu |
| .HELP | Screen line commands help |
| .HOLDOFF | Remove SYSOUT hold=yes (screen print) |
| .HOLDON | Specify SYSOUT hold=yes (screen print) |
| .INS*nn* | Insert line command |
| .INT*nnn* | Specify auto-update interval (1-900 seconds) |
| .KEYS | Define or reset PF key definitions (not supported under SPF—use SPF keys) |
| .LEFT*nn* | Shift PreAlert display left |
| .MENU | Toggle menu stack display |
| .PAUSE | Pause screen chaining one PreAlert cycle |
| .PRT | Specify auto-print options |
| .REP | Specify auto-repeat option on/off |
| .RET | Immediate return to calling screen (Exception Analysis) |
| .RIGHT*nn* | Shift PreAlert display right |
| .SCROLL | Scroll to line number or cursor position |
| .SPN | Close and unallocate print file |
| .SPY | Request SPY feature |
| .STOP | Immediate termination of PreAlert session |
| .STOPV | Immediate termination of PreAlert multi-user manager |
| .TRAC | Specify trace interval |
| .TSL | Specify time scheduled screen options |
| .TUT | Enter online tutorial facility |
| .UP*nn* | Screen scroll up |
| .VTR | Specify VOLSER for disk trace |
| .Z | Activate/terminate freeze frame option |

# 2 Common Functionality

## Storage Displays

### *Use .DUMP to Alter Dump Address*

| Command | Function |
|---|---|
| ADDR | Specify dump address |
| CMDA | Specify cross memory dump ASID |
| DUMH | Storage dump header |
| DUML | Display dump ASID/job name and address |
| DUMP | Storage dump |
| MZAP | Modify memory |
| MSCN | Memory scan |

## Master Console Support

| Command | Function |
|---|---|
| COMD | Issue MVS command |
| MCON | Master console display line |
| RPLY | Outstanding operator reply elements |
| MDRM | Display retained messages |
| MDOM | Delete retained messages |
| | MSG=*nnn* Message ID |

# Miscellaneous Line Commands

| Command | Function |
|---|---|
| *bbbb* | Line command input area |
| ==== | Line separator; trigger for auto-repeat option |
| .... | Comment line |
| SCRN | Display defined screen names |
| PRNT | Global screen print control. These are the keywords:<br>CLS=Sysoutclass<br>SPN=Y<br>HLD=Y/N<br>DST=Destination<br>CNT=Print count |
| SID | System ID: model/serial, MVS release level, PreAlert release level and date |

# PreAlert LOGGING

| Command | Function | |
|---|---|---|
| MLOG | MVS and IDMS statistics logging. These are the keywords: | |
| | SMF=*nnn* | SMF record ID; must be greater than 127 and less than 256 |
| | DSN=*data.set.name* | An * in any position will be replaced with the user's user ID |
| | VOL=*volser* | Use only if a specified VOLSER is required |
| | UNT=*unit* | Defaults to SYSDA |
| | BLK=*nnn* | Blocksize—must be 4096 or larger |
| | SPC=B/T/C | Space allocation type: block (B), track (T), cylinder (C) |
| | PSQ=*nnn* | Primary space quantity |
| | SSQ=*nnn* | Secondary space quantity |
| | DSP=*old/mod/shr* | Dataset disposition |
| | RES=Y | Reset to default attributes |

# Online Quick Reference

| Command | Function |
|---|---|
| QREF | Enter `REF`=(CONTROL, MVS, IDMS, AUTH, or line command) |

# PreAlert USERDATA Displays

| Command | Function |
|---|---|
| UDPA | UDPARMS keyword settings, expanded |
| UDPB | UDPARMS keyword settings, compressed |
| UDAU | UDAUSER authorized user IDs |
| UDLC | UDLCX line command exclude lists |
| UDCV | UDCVNUM IDMS CV names and numbers |
| UDIX | UDUDXL IDMS default exception level set |
| UDPG | UDPGN MVS performance group names |
| UDDM | UDDOM MVS domain names |
| UDEX | UDEXAL MVS default exception level set |
| UDCH | UDCHATT special character attributes |

# PreAlert Multi-user Session

| Command | Function |
|---|---|
| CLEAR key | Switch to background and reconnect via VTAM or TSO PreAlert LOGON procedures |

# SPF Interface

To stop the auto-update (.INT*nnn*) use the following:

| Command | Function |
|---|---|
| ATTN key | For remote terminals |
| PA1 key | For local terminals |

**Caution!** Users working on 3270 emulators must determine the correct key to stop PreAlert's Automatic Update feature. End the PreAlert session if you do not know the correct key to stop PreAlert's Automatic Update feature. The MVS modify command (F PREALERT, STOP, `userid`) may be used to terminate PreAlert sessions.

# Edit Line Commands

| Command | Function |
|---|---|
| I*n* | Insert *n* lines (default =1) |
| IB*n* | Insert before *n* lines |
| M*n* | Move *n* lines |
| C*n* | Copy *n* lines |
| A*n* | After target for MOVE/COPY (repeated *n* times) |
| D*n* | Delete *n* lines |
| R*n* | Repeat this line *n* times |
| DD | Block delete |
| CC | Block copy |
| MM | Block move |
| RR*n* | Block repeat *n* times |

# Control Line Commands

| Command | Function |
|---|---|
| .ASC | Automatic screen calling |
| .ASD | Specify target ASID |
| .ASL | Automatic screen option |
| .ATH | Set authorization ON/OFF |
| .CLR | Request color support OFF/ON/XON |
| .DTR | Specify unit for disk trace |
| .INT | Specify auto-update interval |
| .PRT | Specify auto-print options |
| .RET | Delayed return to calling screen (Exception Analysis) |
| .SPN | Spin-off print file |
| .SWP | Specify swap SYSEVENT (OK/DONT) |
| .TRC | Specify trace interval |
| .TSC | Timed screen calling options |
| .TC1 | Timed screen calling-1 |
| .TC2 | Timed screen calling-2 |
| .TC3 | Timed screen calling-3 |
| .TSL | Timed screen options |
| .TL1 | Timed screen-1 |
| .TL2 | Timed screen-2 |
| .TL3 | Timed screen-3 |
| .VTR | Specify VOLSER for disk trace |

# PreAlert PF Key Assignments (Default)

| PF Key | Action | Description |
|---|---|---|
| PF KEY 1 | .HELP | Screen fields help |
| PF KEY 2/14 | .DEL | Delete line command |
| PF KEY 3/15 | .END | End PreAlert session/up one level in menu |
| PF KEY 4/16 | .PRT | Print current screen |
| PF KEY 5/17 | .CHG | Change line commands |
| PF KEY 6/18 | .SCROLL | Scroll to line number or cursor position |
| PF KEY 7/19 | .UP | Scroll screen display up |
| PF KEY 8/20 | .DOWN | Scroll screen display down |
| PF KEY 9/21 | .INS | Insert line command |
| PF KEY 10/22 | .LEFT | Shift screen display left |
| PF KEY 11/23 | .RIGHT | Shift screen display right |
| PF KEY 12 | .ESC | Menu escape |
| PF KEY 13 | .TUT | Enter PreAlert online tutorial facility |
| PF KEY 24 | .STOP | Stop PreAlert session |

**Note:**

These PF key assignments are not supported under SPF—use the SPF keys command.

# Color Support

| Command | Description | |
|---|---|---|
| COPN | Normal data display; color, highlighting | |
| COPH | Messages, exception data; color, highlighting | |
| COUN | Line commands; color, highlighting | |
| COIN | Line command input areas; color, highlighting | |
| COUH | Command input; color, highlighting | |
| CHAT | Assign special attributes. These are the attributes: | |
| | CHA=*character* | Special character (i.e., #, $, @) |
| | INT=*intensity* | For monochrome displays: high, low |
| | COL=*color,highlight* | Color displays: color, highlight |
| | CAN=Y | Remove special character |
| | Valid Intensities: | Low, high |
| | Valid Colors: | Red, blue, turquoise, yellow, white, green, pink |
| | Valid Highlights: | Normal, uscore, reverse, blink |

# 3 IDMS Interface

**Note:**

When an S precedes a command it symbolizes a sort field. A plus sign (+) is an overflow indicator for display purposes.

## IDMS Interface

### *Control Line Command*

| Command | Function |
|---|---|
| IDMS (*jobname*) | |

## Active Task Data (Freeze Frame)

### *Control Line Command*

| Command | Function |
|---|---|
| ATSL | Active Task Selection, separated by a comma. These are the keywords: |
| | TYP=*xxx* Any or all of these types can be entered:<br>S System tasks<br>D Line drive tasks<br>P Print driver tasks<br>U User tasks<br>E External run-units |
| | PTE=*xxx* PTE*1,PTE*2,...PTE*8; physical terminal selection, select by PTERM |
| | TCD=*xxx* TCD*1,TCD*2,...TCS*8; task code selection, select by task code |

| Command | Function |
|---|---|
| PGM=*xxx* | PGM*1,PGM*2,...PGM*8; program name selection |
| USR=*xxx* | USR*1,USR*2,...USR*8; user ID selection |
| TIM=*n* | Total task time selection, TIM=3 (task greater than 3 seconds) |
| SRT=*xxx* | Sort field, default sequence |
| SRT<*xxx* | Sort field, ascending sequence |
| SRT>*xxx* | Sort field, descending sequence |
| EXA=*x* | Y (exception found), N (no exceptions) |
| REP=*x* | Y/N (request auto-repeat option) |
| DLG=*x* | Dialog name selection |

## Selection Line Command

| | Command | Function |
|---|---|---|
| S+ | ATID | Active task ID |

## Display Line Commands

| | Command | Function |
|---|---|---|
| S | ATCD | Task code |
| | ATST | Status (WAIT/ACTIVE/ABEND) |
| | ATEW | ECB wait code |
| | ATAW | Average wait time per DB request |
| S | ATPN | Program name |
| | ATPS | Program size |
| | ATSR | Storage requests |
| | ATSA | Storage allocation size |
| S | ATSO | Storage owned by task (see keyword member IDMSRCE in USERDATA - UDPARMS) |
| | ATSH | Storage allocation HWM |
| | ATSF | Free storage requests |
| | ATRE | Current/maximum number of RCEs |
| | ATRL | Current/maximum number of RLEs |
| | ATDE | Current/maximum number of DPEs |
| | ATIL | Current/maximum number of ILEs |

| | Command | Function |
|---|---|---|
| | ATLT | LTERM ID |
| | ATPT | PTERM ID |
| | ATTR | Terminal reads/writes |
| | ATTW | Wait time |
| S | ATTT | Total time |
| | ATWT | Task waiting time |
| | ATUI | User ID |
| | ATUS | User security bit map |
| | ATGT | GETTIME/SETTIME requests |
| | ATPC | Programs CALLED/LOADED |
| | ATSG | Scratch GETS |
| | ATSP | Scratch PUTS |
| | ATSD | Scratch DELETES |
| | ATQG | Queue GETS |
| | ATQP | Queue PUTS |
| | ATQD | Queue DELETES |
| | ATDP | Dispatching priority |
| | ATWD | Last trace word |
| S | ATLK | Total locks (CURRENT/TOTAL) |
| | ATLU | Update locks (CURRENT/TOTAL—IDMS 10.2 only) |
| | ATLS | Select locks (CURRENT/TOTAL—IDMS 10.2 only) |
| | ATLC | CURRENT/TOTAL lock requests |
| | ATSV | Total service requests |
| | ATXG | Global exception definition |
| | ATXI | Task exception definition |
| | ATXT | Task code used with exception analysis |

| | Count | | Rate | Function |
|---|---|---|---|---|
| S | ATDB | S | ARDB | Database requests |
| S | ATRR | S | ARRR | Records requested |
| S | ATRU | S | ARRU | Records current of run unit |
| S | ATCN | S | ARCN | CALC RECS no-overflow |
| S | ATCO | S | ARCO | CALC RECS overflow |

| | Count | | Rate | Function |
|---|---|---|---|---|
| S | ATRC | | | RECS requested to current of run unit ratio |
| S | ATVN | S | ARVN | VIA RECS no-overflow |
| S | ATVO | S | ARVO | VIA RECS overflow |
| S | ATOF | | | VIA/CALC overflow PCT |
| S | ATPQ | S | ARPQ | Pages requested |
| S | ATPR | S | ARPR | Pages read |
| S | ATPD | | | Pages read per DB call ratio |
| S | ATPW | S | ARPW | Pages written |
| S | ATIO | S | ARIO | I/O count, page reads and writes |
| | ATBU | | | Buffer utilization ratio |
| S | ATTS | | ARTS | System mode CPU time |
| S | ATTU | | ARTU | User mode CPU time |
| S | ATTC | | ARTC | Total CPU time |

| Command | Function |
|---|---|
| ADAB | Abort commands (EXPLICIT/IMPLICIT) |
| ADCD | Put current detail commands |
| ADDC | Display continue commands |
| ADDS | Display commands (EXPLICIT/IMPLICIT) |
| ADGD | Get detail commands |
| ADIN | Invoke commands (EXPLICIT/IMPLICIT) |
| ADLA | Leave application (EXPLICIT/IMPLICIT) |
| ADLD | Link dialog (EXPLICIT/IMPLICIT) |
| ADLG | Name (INITIAL/CURRENT) |
| ADLL | CURRENT link level |
| ADLN | HIGHEST/LOWEST link level |
| ADLP | Link program (EXPLICIT/IMPLICIT) |
| ADLV | Leave ADSO (EXPLICIT/IMPLICIT) |
| ADND | Put new detail commands |
| ADPE | PREMAP/RESPONSE process executions |
| ADRB | HIGHEST/LOWEST record blocks (RBB) |
| ADRC | Return continue (EXPLICIT/IMPLICIT) |
| ADRT | Return commands (EXPLICIT/IMPLICIT) |

| Command | Function |
|---|---|
| ADSD | Scratch DELETE commands |
| ADSG | Scratch GET commands |
| ADSP | Scratch PUT commands |
| ADTC | Transfer commands (EXPLICIT/IMPLICIT) |
| ADWP | Write to printer commands |
| ATSC | SQL commands executed |
| ATRF | Number of rows fetched |
| ATRI | Number of rows inserted |
| ATRD | Number of rows deleted |
| ATRM | Number of rows modified (UPDATED) |
| ATRS | Number of sorts performed/rows sorted |
| ATAR | Number of am recompiles |

### Horizontal Display Line Command

| Command | Function |
|---|---|
| ATHL | Active task horizontal display (IDMS 12.*x* or later) |

### Detailed Display for .SPY

| Command | Function |
|---|---|
| ATZZ | Active task detailed display (IDMS 12.*x* or later) |

## Active Task Plots

| Command | Function | |
|---|---|---|
| ATPL | Active task plots line command. These are the keywords: | |
| | TCD=`masks(s)` | Task code masks, eight allowed |
| | TCX=`masks(s)` | IDX task code masks, eight allowed |
| | PNM=`masks(s)` | Program name masks, eight allowed |

| Command | Function | |
|---|---|---|
| | TYP=*xxx* | Task type selection, default=UE. These are the types:<br>U User (online) tasks<br>E External tasks<br>S System tasks |
| | FLD=*xxx* | Plot field, default=ARTC. These are the options:<br>ATSO Storage size<br>ARDB Database request rate<br>ARRR Record request rate<br>ARIO I/O rate<br>ARTC Total CPU rate |
| | SRT=*xxx* | Sort field, defaults to plot field |
| | SRT<*xxx* | Sort field, ascending sequence |
| | SRT>*xxx* | Sort field, descending sequence. These are the options:<br>ATCD Task code<br>ATID Task ID<br>ATPN Program name<br>ATXT IDX task code<br>ATSO Storage size<br>ARDB Database request rate<br>ARRR Record request rate<br>ARTC Total CPU rate |
| | PLT=*nnn* | Plot measurement scale |
| | MIN=*nnn* | Minimum for value to be plotted, default = 1 |
| | YEL=*nnn* | Yellow color threshold |
| | RED=*nnn* | Red color threshold |
| | EXA=*x* | Exception color flag; Y/O |

# IDMS Run Unit Data (Freeze Frame)

## Control Line Command

| Command | Function |
|---|---|
| RUSL | Run Unit Selection, separated by a comma. These are the keywords: |
| | TYP=*xxx* Type selection. These are the types:<br>S System run units<br>U User run units<br>E External run units |
| | SCH=*xxx* SCH*1, SCH*2,...SCH*8; selection by schema name |
| | SSC=*xxx* SSC*1, SSC*2,...SSC*8; selection by subschema |
| | SRT=*xxx* Sort field, default sequence |
| | SRT<*xxx* Sort field, ascending sequence |
| | SRT>*xxx* Sort field, descending sequence |
| | REP=*x* Y/N (request auto-repeat option) |

## Selection Line Command

| | Command | Function |
|---|---|---|
| + | RUID | Run unit ID number (HEX) |

## Display Line Commands

| Command | Function |
|---|---|
| RUTI | Active task ID |
| RUIN | Run unit ID number (decimal) |
| RULI | Run unit local ID |
| RUTP | Type |
| RUST | Status/error status |
| RUVB | Verb number/description |
| RULA | Last verb, area used |
| RULL | Last verb, DB key line no |
| RULP | Last verb, DB key page no |
| RULR | Last verb, record used |
| RULV | Last verb used |

| | Command | Function |
|---|---|---|
| | RUVP | Current verb parms |
| | RUDT | Run date |
| | RUTM | Begin time of day |
| S | RUCN | CALC recs no-overflow |
| S | RUCO | CALC recs overflow |
| S | RUDB | Database requests (calls) |
| | RUJI | Journal images before/after |
| | RULS | Select locks held (IDMS 10.2 only) |
| S | RULT | Total locks held |
| | RULU | Update locks held (IDMS 10.2 only) |
| S | RULC | Total lock requests |
| S | RUPQ | Pages requested |
| S | RUPR | Pages read |
| | RUPW | Pages written |
| S | RURC | Records current of run unit |
| | RURR | Records requested |
| | RURU | Records updated, not committed |
| S | RUVN | VIA recs no-overflow |
| S | RUVO | VIA recs overflow |
| S | RUPN | Program name |
| S | RUSN | Schema name |
| S | RUSS | Subschema name |
| | RUSZ | Subschema size |
| | RUDM | DMCL name |
| | RUDN | Run unit dbname |
| S | RUAN | Area name |
| S | RURN | Record name |
| | RUFN | Current IDMS file name |
| | RUVS | Current IDMS file VOLSER |
| | RUKL | DB key line number |
| S | RUKP | DB key page number |
| | RUKO | DB key owner, TASKID or LTERM |
| S | RUIB | Index levels searched/levels searched |
| S | RUIE | SR7/SR8 index recs erased |

| | Command | Function |
|---|---|---|
| S | RUIL | Index levels searched best/worst case |
| S | RUIO | Index orphans adopted |
| S | RUIS | SR8 index rec splits/spawns |
| S | RUIW | SR7/SR8 index recs written |
| | RUJB | Batch jobname |
| | RUJC | Batch job class |
| | RUJN | Batch JES job number |

### Horizontal Display Line Command

| Command | Function |
|---|---|
| RUHL | Run unit horizontal display (IDMS 12.*x* or later) |

### Detailed Display for .SPY

| Command | Function |
|---|---|
| RUZZ | Run unit detail display (IDMS 12.*x* or later) |

## IDMS Task Definitions (Conditional Freeze Frame)

### Control Line Command

| Command | Function |
|---|---|
| TKSL | Task Definition Selection, separated by a comma. These are the keywords: |
| | TCD=*xxx* TCD*1,TCD*2,...TCD*8; selection by task code |
| | PGM=*xxx* PGM*1,PGM*2,...PGM*8; selection by program name |
| | STA=*x* E (enabled tasks), D (disabled tasks) |
| | SEC=*xxx* Security code selection, up to eight different codes possible |
| | TYP=*x* I (internal tasks), E (external tasks) |
| | REP=*x* Y/N (request auto-repeat option) |

### Selection Line Command

| | Command | Function |
|---|---|---|
| + | TKCD | Task code |

### Display Line Commands

| Command | Function |
|---|---|
| TKPN | Program name |
| TKPR | Priority |
| TKSC | Security code |
| TKCT | Called count |
| TKTC | Current task threads count |
| TKSI | Stall interval |
| TKRI | Runaway task interval |
| TKRT | Resource timeout interval |
| TKRP | Resource timeout program |
| TKST | Status (ENABLD/DISABLD, INTERNL/EXTRNL) |

## IDMS Program Definitions (Conditional Freeze Frame)

### Control Line Command

| Command | Function |
|---|---|
| PRSL | Program Definition Selection, separated by a comma. These are the keywords: |
| | PNM=*xxx* PNM*1,PNM*2,...PNM*8; selection by program name |
| | SEC=*xxx* Selection by security code, up to eight different codes possible |
| | TYP=*xxx* Program types:<br>C COBOL<br>A Assembler<br>S Subschema<br>M Map definitions<br>O Ads/online<br>P PL1 |

| Command | Function |
|---|---|
| REN=*xxx* | Re-entrancy:<br>Q Quasi<br>T Truly<br>N Not re-entrant |
| RES=*xxx* | Residency:<br>P Permanent),<br>I Inresidence-loaded<br>O Out residence—not loaded |
| STG=*x* | Storage protection: Y (storage protect on), N (no storage protect) |
| STA=*x* | Program status: E (enabled), D (disabled) |
| REP=*x* | Y/N (request auto-repeat option) |
| WTL=*nn* | Wait to load count |

## Selection Line Command

| Command | Function |
|---|---|
| + PRNM | Program name |

## Display Line Commands

| Command | Function |
|---|---|
| PRVR | Program version number (IDMS 10.2 only) |
| PRTP | Program type (ASM/COBOL/MAP/SUBSCHEMA/ADS-ONLINE/PL1) |
| PRRE | Program re-entrant type |
| PRSP | Program storage protection |
| PRST | Program status (ENABLE/DISABLE) |
| PRRS | Program residency |
| PRGS | Program general status |
| PRSC | Program security code |
| PRSZ | Program size |
| PRCU | Program current user count |
| PRSW | Program short wait count |
| PRLW | Program long wait count |
| PRCC | Program called count |
| PRLC | Program loaded count |

| Command | Function |
|---|---|
| PRWL | Program waited to load count |
| PRCK | Program check count/threshold |
| PRDU | Program dump count/threshold |

# Database Areas (Freeze Frame)

## *Control Line Command*

| Command | Function |
|---|---|
| DBSL | Database Areas Selection, separated by a comma. These are the keywords: |
| | DNM=*xxx* DNM*1, DNM*2,...DNM*8; database schema selection by schema name |
| | SCH=*xxx* SCH*1,SCH*2,...SCH*8; database schema selection by schema name |
| | STA=*xxx* Database area status selection. Select by the following:<br>R Online retrieval<br>U Online update<br>O Offline |
| | TYP=*xxx* Database area type selection, select by: I (native IDMS), V (VSAM) |
| | SRT=*xxx* Sort field, default sequence |
| | SRT<*xxx* Sort field, ascending sequence |
| | SRT>*xxx* Sort field, descending sequence |
| | REP=*x* Y/N (request auto-repeat option) |
| | ANM=*xxx* ANM*1, ANM*2,...ANM*8; database area selection by alias name (IDMS 10.2 only) |
| | SEG=*xxx* SEG*1,SEG*2,...SEG*8; database area selection by segment name (IDMS 12.*x* or later) |
| | SYM=*xxx* SYM*1,SYM*2,...SYM*8; database area selection by symbolic name (IDMS 12.*x* or later) |
| | FMT=*x* Database area format selection (IDMS 10.2 only): R (relational), N (network) |
| | IOR=*nnn* I/O rate |
| | RQR=*nnn* Record request rate |
| | EXA=*x* Exceptions occurred: Y (yes), N (no) |
| | CNT=*nnn* Area display count |

## Selection Line Command

| | Command | Function |
|---|---|---|
| S+ | DBNM | Area name (display is 16 characters maximum) |

## Display Line Commands

| | Command | Function |
|---|---|---|
| | DBST | Status (OFFLINE/UPDT/RETRVL) |
| | DBTP | Type (IDMS/VSAM) |
| S | DBLP | Low page number |
| | DBHP | High page number |
| S | DBPG | Page group number (IDMS 12.*x* or later) |
| S | DBSC | Schema name |
| | DBSN | Schema version |
| S | DBAN | Area alias name (IDMS 10.2 only) |
| S | DBRD | Number of physical reads |
| S | DBWR | Number of physical writes |
| S | DBRF | Number of reads found in buffer |
| S | DBRP | Percentage of reads found in buffer |
| S | DBUT | Buffer utilization ratio for area |
| | DBEC | Reads found in cache or dataspace |
| | DBEP | Percentage of reads found in cache or dataspace |
| | DBEU | Cache and dataspace utilization ratio |
| | DBSF | Reads found in storage (BUFFER+DATASPACE+CACHE) |
| | DBSP | Percentage reads found in storage |
| | DBSU | Storage utilization ratio |
| S | DBIO | Total I/O count |
| S | DBIR | Current I/O rate |
| | DBLK | Total locks held in area |
| | DBOP | Open status flags (IDMS 10.2 only) |
| | DBRO | Run units with area open (IDMS 10.2 only) |
| S | DBRQ | Total requests |
| S | DBRR | Current request rate |
| | DBRS | RU's with area in subschema (IDMS 10.2 only) |

| Command | Function |
|---|---|
| DBRU | Run unit ID holding area (IDMS 10.2 only) |
| DBWT | Wait status (IDMS 10.2 only) |
| DBXX | Exception definition |
| DBFM | Database format (IDMS 12.0 only) |
| DIIR | Interval I/O rate |
| DIRR | Interval request rate |
| DIRP | Interval reads found in buffer percent |
| DIUT | Interval buffer utilization ratio |
| DIEP | Interval percentage reads found in cache or dataspace |
| DIEU | Interval cache and dataspace utilization ratio |
| DISF | Interval reads found in storage (BUFFER+DATASPACE+CACHE) |
| DISP | Interval percentage reads found in storage |
| DISU | Interval storage utilization ratio |

## Horizontal Display Line Command

| Command | Function |
|---|---|
| DBHL | Database area horizontal display (IDMS 12.*x* or later) |

## Detailed Display for .SPY

| Command | Function |
|---|---|
| DBZZ | Database area detailed display (IDMS 12.*x* or later) |

# Database Area Plots

| Command | Function | |
|---|---|---|
| DBPL | Database area plots line command. These are the keywords: | |
| | DNM=*mask(s)* | Database area name masks, eight allowed |
| | SEG=*mask(s)* | Segment name masks, eight allowed |
| | SYM=*mask(s)* | Symbolic name masks, eight allowed |
| | FMT=*xxx* | Specifies the format to select database areas for display (IDMS 12.*x* or later): R (Relational database areas), N (Network areas) |
| | FLD=*xxx* | Plot field, default=DBIR. These are the options:<br>DBIR I/O rate<br>DBRR Record request rate<br>DBRP Reads found in buffer percent<br>DBLK Locks held in area<br>DBUT Buffer utilization ratio<br>DIIR Interval I/O rate<br>DIRR Interval request rate<br>DIRP Interval reads found in buffer percent<br>DIUT Interval buffer utilization ratio |
| | SRT=*xxx* | Sort field, defaults to plot field |
| | SRT<*xxx* | Sort field, ascending sequence |
| | SRT>*xxx* | Sort field, descending sequence. These are the options:<br>DBNM Area name<br>DBRR Record request rate<br>DBIR I/O rate<br>DBRR Record request rate<br>DBRP Reads found in buffer percent<br>DBLK Locks held in area<br>DBUT Buffer utilization ratio<br>DIIR Interval I/O rate<br>DIRR Interval request rate<br>DIRP Interval reads found in buffer percent<br>DIUT Interval buffer utilization ratio |
| | PLT=*nnn* | Plot measurement scale |
| | MIN=*nnn* | Minimum for value to be plotted, default=1 |
| | YEL=*nnn* | Yellow color threshold |
| | RED=*nnn* | Red color threshold |
| | EXA=*x* | Exception color flag: Y/O |

# IDMS Buffers (Freeze Frame)

## *Control Line Command*

| Command | Function | |
|---|---|---|
| BFSL | Buffer Selection, separated by a comma. These are the keywords: | |
| | BNM=*xxx* | BNM*1,BNM*2,...BNM*8; buffer name selection |
| | SRT=*xxx* | Sort field, default sequence |
| | SRT<*xxx* | Sort field, ascending sequence |
| | SRT>*xxx* | Sort field, descending sequence |
| | REP=*x* | Y/N (request auto-repeat option) |
| | IOR=*nnn* | I/O rate |
| | RQR=*nnn* | Record request rate |
| | EXA =*x* | Exceptions occurred: Y (yes), N (no) |
| | CNT=*nnn* | Display count |

## *Selection Line Command*

| | Command | Function |
|---|---|---|
| S+ | BFFR | IDMS buffer name |

## *Display Line Commands*

| | Command | Function |
|---|---|---|
| | BFPG | Number of pages maximum/in-use |
| S | BFSZ | Size |
| S | BFBW | Total waits on buffers |
| S | BFRD | Number of physical reads |
| S | BFWR | Number of physical writes |
| S | BFRF | Number of reads found in buffer |
| S | BFUT | Utilization ratio for the buffer |
| | BFRP | Percentage reads found in buffer |
| | BFCC | Reads found in cache |
| | BFCP | Percentage of reads found in cache |
| | BFCU | Cache utilization ratio |

| | Command | Function |
|---|---|---|
| S | BFIO | Total I/O count |
| S | BFIR | Current I/O rate |
| S | BFRQ | Total requests |
| S | BFRR | Current request rate |
| | BFCC | Reads found in cache |
| | BFCP | Percentage of reads found in cache |
| | BFCU | Cache utilization ratio |
| | BFXX | Exception definition |
| | BIIR | Interval I/O rate |
| | BIRR | Interval record request rate |
| | BIRP | Interval reads found in buffer percent |
| | BIUT | Interval buffer utilization ratio |
| | BIBW | Interval buffer waits |
| | BICC | Interval reads found in cache |
| | BICP | Interval reads found in cache percentage |
| | BICU | Interval cache utilization ratio |

## Horizontal Display Line Command

| Command | Function |
|---|---|
| BFHL | Buffer horizontal display (IDMS 12.*x* or later) |

## Detailed Display for .SPY

| Command | Function |
|---|---|
| BFZZ | Buffer detailed display (IDMS 12.*x* or later) |

# Buffer Plots

| Command | Function | |
|---|---|---|
| BFPL | Buffer plots line command. These are the keywords: | |
| | BNM=*mask(s)* | Buffer name masks, eight allowed |
| | FLD=*xxx* | Plot field, default=BFIR. These are the options:<br>BFIR I/O rate<br>BFRR Record rate request<br>BFRP Reads found in buffer percent<br>BFUT Buffer utilization ratio<br>BIIR Interval I/O rate<br>BIRR Interval request rate<br>BIRP Interval reads found in buffer percent<br>BIUT Interval buffer utilization ratio |
| | SRT=*xxx* | Sort field, defaults to plot field |
| | SRT<*xxx* | Sort field, ascending sequence |
| | SRT>*xxx* | Sort field, descending sequence. These are the options:<br>BFFR Buffer name<br>BFRR Record request rate<br>BFIR I/O rate<br>BFRR Record rate request<br>BFRP Reads found in buffer percent<br>BFUT Buffer utilization ratio<br>BIIR Interval I/O rate<br>BIRR Interval request rate<br>BIRP Interval reads found in buffer percent<br>BIUT Interval buffer utilization ratio |
| | PLT=*nnn* | Plot measurement scale |
| | MIN=*nnn* | Minimum for value to be plotted, default=1 |
| | YEL=*nnn* | Yellow color threshold |
| | RED=*nnn* | Red color threshold |
| | EXA=*x* | Exception color flag; Y/O |

# IDMS Files

File displays are available for IDMS 14.*x* or later only.

## Control Line Command

| Command | Function | |
|---|---|---|
| FCSL | File Selection,separated by a comma. These are the keywords: | |
| | FNM=*mask(s)* | File name mask, eight allowed |
| | BNM=*mask(s)* | Buffer name mask, eight allowed |
| | DSN=*mask(s)* | Dataset name mask, eight allowed |
| | VOL=*mask(s)* | VOLSER mask, eight allowed |
| | SRT=*xxxx* | Sort field, default sequence |
| | SRT<*xxxx* | Sort field, ascending sequence |
| | SRT>*xxxx* | Sort field, desceding sequence |
| | REP=Y/N | Auto-repeat option: Y (yes), N (no) |
| | EXA=Y/N | Exception occurred: Y (yes), N (no) |
| | CNT=*nnn* | Display count |

## Selection Line Command

| Command | Function |
|---|---|
| S+ FCNM | IDMS file name |

## Display Line Command

| Command | Function |
|---|---|
| S FCBF | Buffer name |
| S FCCH | Cache file name |
| S FCDD | MVS ddname |
| S FCDS | Dataset name |
| S FCVS | File VOLSER |
| FCST | File status |
| FCTP | File type, BDAM/VSAM |
| FCEC | ESA dataspace or cache file hits |

| | Command | Function |
|---|---|---|
| S | FCEP | ESA dataspace or cache file hits percentage |
| S | FCEU | ESA dataspace or cache file utilization ratio |
| S | FCIO | Total I/O count |
| S | FCIR | Current I/O rate |
| | FCRD | Total physical read count |
| | FCWR | Total physical write count |
| S | FCRQ | Total record request count |
| S | FCRR | Current record request rate |
| | FCRF | Total buffer hits count |
| S | FCRP | Buffer hits percentage |
| S | FCUT | Buffer utilization ratio |
| | FCSF | Total storage hits count |
| S | FCRP | Buffer hits percentage |
| S | FCUT | Buffer utilization ratio |
| | FCSF | Total storage hits count |
| S | FCSP | Storage hits percentage |
| S | FCSU | Storage utilization ratio |
| | FCXX | File exception definition/status (*nnn*/*abc*) |
| | FIEC | Interval ESA dataspace or cache file hits |
| S | FIEP | Interval ESA dataspace or cache file hits percentage |
| S | FIEU | Interval ESA dataspace or cache file utilization ratio |
| S | FIIR | Interval I/O rate |
| S | FIRR | Interval record request rate |
| S | FIRP | Interval buffer hits percentage |
| S | FIUT | Interval buffer utilization ratio |
| | FISF | Interval storage hits count |
| S | FISP | Interval storage hits percentage |
| S | FISU | Interval storage utilization ratio |

### Horizontal Display Line Command

| Command | Function |
|---|---|
| FCHL | File horizontal display |

### Detailed Display for .SPY

| Command | Function |
|---|---|
| FCZZ | File detailed display |

## File Plots

| Command | Function | |
|---|---|---|
| FCPL | File plots line command. These are the keywords: | |
| | FNM=*mask(s)* | File name masks, eight allowed, specify * for mask |
| | FLD=*xxxx* | Plot field, default=FCIR. These are the options:<br>FCIR I/O rate<br>FCRR Record request rate<br>FCRP Buffer hits percentage<br>FCUT Buffer utilization ratio<br>FIIR Interval I/O rate<br>FIRR Interval record request rate<br>FIRP Interval buffer hits percentage<br>FIUT Interval buffer utilization ratio |
| | SRT=*xxxx* | Sort field, defaults to the plot field |
| | SRT<*xxxx* | Sort field, ascending sequence |
| | SRT>*xxxx* | Sort field, descending sequence. These are the options:<br>FCNM File name<br>FCIR I/O rate<br>FCRR Record request rate<br>FCRP Buffer hits percentage<br>FCUT Buffer utilization ratio<br>FIIR Interval I/O rate<br>FIRR Interval record request rate<br>FIRP Interval buffer hits percentage<br>FIUT Interval buffer utilization ratio |
| | PLT=*nnn* | Plot measurement scale |
| | MIN=*nnn* | Minimum value to be plotted, default = 1 |

| Command | Function | |
|---|---|---|
| | YEL=*nnn* | Yellow plot threshold |
| | RED=*nnn* | Red plot threshold |
| | EXA=*xxx* | Exception color option; Y/O |

# IDMS Physical Line Definitions (Freeze Frame)

## Control Line Command

| Command | Function | |
|---|---|---|
| LISL | Physical Line Selection, separated by a comma. These are the keywords: | |
| | LIN=*xxx* | LIN*1, LIN*2,...LIN*8; selection by physical line ID |
| | AMS=*xxx* | Selection by access method, one to eight may be entered. These are the options:<br>B=BSC (BTAM)<br>C= CTC (Channel to Channel)<br>E= EXCP (Channel Attach)<br>I= Online Simulation<br>Q= QSAM (Sequential)<br>S= SVC (Supervisor Call)<br>T= TCAM<br>U= UCF<br>V= VTAM<br>W= WTO (Console) |
| | REP=*x* | Y/N (request auto-repeat option) |

## Selection Line Command

| Command | Function |
|---|---|
| + LINE | Line ID |

### Display Line Commands

| Command | Function |
|---|---|
| LITP | Type/access method |
| LIST | Status (INSER/OUTSER/CLOSED) |
| LITR | Number of terminals |
| LIRC | Read count |
| LIRE | Read error count |
| LIWC | Write count |
| LIWE | Write errors count |
| LIHS | Response time histogram |

### VTAM Lines

| Command | Function |
|---|---|
| LIAP | VTAM application ID |
| LINR | VTAM NIB/RPL count |

### BSC3 Lines

| Command | Function |
|---|---|
| LINL | BSC3 number of lines |

## Journals

### Selection Line Command

| Command | Function |
|---|---|
| JRNL | Name |

### Display Line Commands

| Command | Function |
|---|---|
| JRST | Status (*abcd*) |
| JRPT | Total pages |
| JRPU | Pages used |
| JRVS | VOLSER where journal is allocated |
| JRXL | Low cylinder/head extent limit |
| JRXH | High cylinder/head extent limit |

## IDMS Terminal Definitions (Conditional Freeze Frame)

### Control Line Command

| Command | Function | |
|---|---|---|
| TRSL | Terminal Definition Selection, separated by a comma. These are the keywords: | |
| | LIN=*xxx* | LIN*1,LIN*2,...LIN*8; selection by physical line ID |
| | PTE=*xxx* | PTE*1,PTE*2,...PTE*8; selection by physical terminal ID |
| | LUN=*xxx* | LUname*1, LUname*2,...LUname*8; selection by LUname |
| | TYP=*xxx* | Selection by terminal type: P (printers), D (display terminals) |
| | AMS=*xxx* | Selection by access method, one to eight may be entered. These are the options:<br>B=BSC (BTAM)<br>C= CTC (Channel to Channel)<br>E= EXCP (Channel Attach)<br>I= Online Simulation<br>Q= QSAM (Sequential)<br>S= SVC (Supervisor Call)<br>T= TCAM<br>U= UCF<br>V= VTAM<br>W= WTO (Console) |
| | RES=*x* | Y (select terminals holding resources) |
| | REP=*x* | Y/N (request auto-repeat option) |
| | USE=*x* | Y (used logical terminals) |

## Selection Line Command

| | Command | Function |
|---|---|---|
| + | TRPT | PTERM ID |

## Display Line Commands

| Command | Function |
|---|---|
| TRLT | LTERM ID |
| TRTP | Line type/term type |
| TRLI | Line ID |
| TRRC | Read count |
| TRWC | Write count |
| TRST | Status |

## Display Terminals

| Command | Function |
|---|---|
| TRUI | User ID |
| TRUP | User priority |
| TRPR | LTERM priority |
| TRTC | Task code |

## UCF Interface

| Command | Function |
|---|---|
| TRUS | UCF system ID |
| TRUT | UCF terminal ID |

## Printers

| Command | Function |
|---|---|
| TRPC | Printer classes bit map |
| TRRP | Printer report name |

### BSC3 (BTAM) Terminals

| Command | Function |
|---|---|
| TRPD | BSC3 poll characters |
| TRSC | BSC3 selection characters |
| TRRL | BSC3 relative line ID |

### VTAM Terminals

| Command | Function |
|---|---|
| TRVN | VTAM terminal name |

## IDMS Memory Map

### Display Line Command

| Command | Function |
|---|---|
| MMAP | Displays IDMS region map |

## IDMS Memory Display

### Control Line Command

| Command | Function | |
|---|---|---|
| IDCB | Selection of control block to be displayed. These are the keywords: | |
| | CSA | Common system area |
| | TCA | Task control area |
| | RCA | Resource control SRE |
| | SCT | Storage control table |
| | OPT | Startup options table |
| | TDT | Task definitions table |

| Command | Function | |
|---|---|---|
| | PDT | Program definitions table |
| | LTT | Logical terminal table |
| | TDE | Task definition element; specify element name |
| | PDE | Program definition element; specify element name |
| | PLE | Physical line element; specify element name |
| | LTE | Logical terminal element; specify element name |
| | PTE | Physical terminal element; specify element name |
| | DMCL | DMCL table |
| | TCE | Task control element; specify task ID |
| | DCE | Dispatch control element; specify task ID |
| | CCE | Central control element |
| | LKM | Lock manager control block (IDMS 12.*x* or later) |
| | DPR | Database area control block; specify area name |
| | BCR | Buffer control block; specify buffer name |
| | ADDR | Allows altering of the address of the data to be displayed |

## Display Line Command

| Command | Function |
|---|---|
| DUMP | Display 16 bytes of memory |

# PreAlert/IDMS Miscellaneous Line Commands

| Command | Function |
|---|---|
| ICMD | Issue IDMS commands (routed via operators console)<br>(Example ICMD 99SIGNON user ID password) |
| IVRY | Dynamically vary selected elements within CV. These are the keywords: |
| | TID=*nnnn*(task ID),CAN=Y/1/2(cancels an active task) |
| | TID=*nnnn*(task ID),PRI=*nnn*(resets active task dispatching priority) |
| | TCD=*xxx*(taskcode),PRI=*nnn*(resets task definition priority) |
| | TCD=*xxx*(taskcode),ENA=Y/N(enable/disable task definition) |
| | PGM=*xxx*(program),ENA=Y/N(enable/disable program definition) |

# Statistics Logging

| Command | Function |
|---|---|
| ILOG | Request system, active task and run unit statistics logging to SMF or user defined dataset |
| LOG=*x* | Allows you to specify logging options. *x* can be one of these options: |
| | S=IDMS system statistics records |
| | I=IDMS interval statistics records |
| | T=Active task and run unit statistics records |
| | E=Active task and run unit statistics for tasks with exceptions only |
| | M=PreAlert/IDMS exception analysis messages only |
| | D=PreAlert screen image displays |
| | N=None, also will suppress requests from Exception Analysis |
| | A=Database area statistics |
| | R=Database area statistics for areas with exceptions |
| | B=Buffer statistics |
| | F=Buffer statistics for buffers with exceptions |
| | *=Resets all ILOG settings |
| INT=*nnn* | Duration of the statistics interval (minutes) |
| SYN=Y/N | Synchronize statistics interval (on the hour) |

## Logical Terminal Summary

| Command | Function |
|---|---|
| LTRM | Logical terminal usage summary |
| PLES | Logical terminal usage summary by physical line (PLE) ID |

## Held Resource Usage Display

| Command | Function |
|---|---|
| RCES | Resources held by a task or L-TERM. These are the keywords:<br>TCE TASKID<br>LTE L-TERM<br>PTE P-TERM |

## Trace Table Display

| Command | Function |
|---|---|
| TTRC | Trace table display. These are the keywords:<br>TCE=*taskid* TASKID<br>CNT=*nnn* Maximum number of entries to be displayed |

## Lock Session Summary

| Command | Function |
|---|---|
| LSUM | Lock session summary (IDMS 12.*x* or later) |

# IDMS Statistical Data (Freeze Frame—Maps Excluded)

## *Current Statistic Display Commands*

| Command | Function |
|---|---|
| CSDB | Database related |
| CSPL | Program/re-entrant pool |
| CSTK | Tasks |
| CSLK | Current locks held |
| CSRC | IDMS current statistics—resource control |
| CSLG | IDMS log driver statistics |
| CSMV | CV CPU rate, I/O rate, local page-in rate |
| CSMP | Multi-tasking MPMODE table |
| CSST | Multi-tasking subtasks |
| CSSW | Scratch work area |
| CSJB | Journal buffer stats (IDMS 12.*x* or later) |

## *System Statistic Display Commands*

| Command | Function |
|---|---|
| SSDB | Database |
| SSPL | Program/re-entrant pool |
| SSSQ | Scratch and queue |
| SSTK | Tasks |
| SSTM | Get/set time |
| SSSW | Scratch work area |
| SSQL | SQL statistics (IDMS 12.*x* or later) |
| SSDD | Deadlock detection (IDMS 12.*x* or later) |
| SSIX | Indexed records (IDMS 12.*x* or later) |
| SSJB | Journal buffer stats (IDMS 12.*x* or later) |

## Interval System Statistic Display Commands

| Command | Function |
|---|---|
| ISTX | Interval status |
| ISDB | Database |
| ISPL | Program/re-entrant pools |
| ISSQ | Scratch and queue |
| ISTK | Tasks |
| ISTM | Get/set time |
| ISMV | CV, CPU, I/O, local page-in rates |
| ISQL | SQL Statistics (IDMS 12.*x* or later) |
| ISDD | Deadlock detection (IDMS 12.*x* or later) |
| ISIX | Indexed records (IDMS 12.*x* or later) |
| ISJB | Journal buffer stats (IDMS 12.*x* or later) |

## Storage and Program Pool Display Commands

| Command | Function |
|---|---|
| STPL | Storage pool statistics |
| STPM | Storage pool map |
| STPS | Storage pools summary |
| PGPM | Program pool map |
| PGXM | Program pool (31-bit) map |
| PRPL | Program/re-entrant pool statistics |
| REPM | Re-entrant pool map |
| REXM | Re-entrant pool (31-bit) map |

## IDMS Histograms Display Commands

| Command | Function |
|---|---|
| HSJR | Size user stats recs written to journal |
| HSPL | Size program loaded in program pool |
| HSQU | Size queue record written |
| HSSR | Size scratch records written |
| HSTS | Size storage requests (all types) |
| HSUS | Size storage requests (user only) |

# ASG Replication Suite Real-Time Option Statistics

| Command | Function |
|---|---|
| REPS | Replication system statistics |
| REPR | Replication record statistics |

# 4 IDMS Exception Analysis

| Command | Function | |
|---|---|---|
| IXAL | List exception definition names | |
| IXAS | Specify PreAlert Exception Analysis level, separated by a comma. These are the keywords: | |
| | LVL=*xx* | Exception level set |
| | RLD=*xx* | Reload level set |
| | SYS=ON/OFF | Activate/terminate System Analysis |
| | TSK=ON/OFF | Activate/terminate Task Analysis |
| | BFR=ON/OFF | Activate/terminate Buffer Analysis |
| | FCX=ON/OFF | Activate/terminate IDMS File Analysis |
| | DBX=ON/OFF | Activate/terminate Database Area Analysis |
| | MSG=N/Y/S/D | Message display options |
| | MIN=*nnn* | Minimum priority for message display |
| | MAX=*nnn* | Maximum priority for message display |
| | LOG=*xxx* | Statistics logging options |

## Keywords Common to All IDMS Exception Definitions

| Keyword | Function |
|---|---|
| EXA=*nn* | Exception definition number |
| SET=ON/OFF | Activate/terminate exception definition |
| SPR=Y/N | Alter to spare entry |
| TOD>*hhmmm* | Time of day range—lower limit (enter 0 to cancel) |
| TOD<*hhmmm* | Time of day range—upper limit (enter 0 to cancel) |
| TDL=*nnn* | Time delay of exception before exception triggered |

| Keyword | Function |
|---|---|
| TIN=*nnn* | Time interval—tests for exception only (*nnn* seconds) |
| TLM=*nnn* | Time of day range limit (only in effect with TOD) |
| PRT=Y/N | Request screen print option |
| LOG=*xxx* | Request statistics/display logging |
| SND=Y/N | Request terminal sound option |
| DLY=*nnn* | Request delay (enter 0 to cancel) |
| LIM=*nnn* | Exception limit (enter 0 to cancel) |
| LMX=*nnn* | Exception limit—*x* |
| PRI=*nnn* | Specify priority for exception definition (used for message sequence and screen chaining) |
| MSG=*message* | User supplied exception message |
| MSG=* | Resets exception messaging |
| CLR=*x* | Message color—PreAlert displays only. These are the options:<br>R Red<br>W White<br>Y Yellow<br>B Blue<br>G Green<br>N Reset |
| USR=*userids* | Send exception message to TSO user list, separated by a comma, enclose in quotes |
| USR=* | Resets user ID list to none |
| SYN=Y/N | Synchronize on statistics interval |
| USO=L/N | User send option, LOGON or now |
| CON=Y/N | Send exception message to MVS console |
| RTC=*n,n,n,...* | Specify console route codes |
| DSC=*n,n,n,...* | Specify console descriptor codes (2, 7, or 11 are the only codes supported) |
| SCR=*screen name* | Specify screen chaining name |
| SCR=* | Resets screen chaining |
| SDL=*nnn* | Specify screen chaining delay (enter 0 to cancel) |
| SLM=*nnn* | Specify screen chaining limit (enter 0 to cancel) |
| FRZ=Y/N | Activate/terminate freeze frame option |
| CMD='*command*' | Specify command image (enclose in quotes) |
| CMD=* | Resets command option |
| CDL=*nnn* | Specify command delay (enter 0 to cancel) |
| CLM=*nnn* | Specify command limit (enter 0 to cancel) |

| Keyword | Function |
|---|---|
| AND=Y/N | Request AND logic for exception thresholds |
| JOB=*jobname* | Submit batch job via internal reader |
| JOB=* | Resets job option |
| ASF=ASFID | Specify ASF system ID |

# System Exception Analysis

| Command | Function | |
|---|---|---|
| IXDS | Display System Exception definitions. These are the keywords: | |
| | EXA=*n,n,n,* | Display System Exception definitions by number |
| | SET=ON/OFF | Display active/inactive Exception definitions |
| IXVS | Vary System Exception definitions, separated by a comma. (Refer to "Keywords Common to All IDMS Exception Definitions" on page 43.) Enter 0 to reset. These are the options: | |

**Note:**

LOG>90 means the exception will occur when the Log is greater than or equal to 90 percent full. Some of the less than thresholds are probably not very functional but were kept for consistency. Also, the ">" should be read as "greater than or equal to".

| Option | Definition |
|---|---|
| MIS=*taskid* | Missing task analysis |
| OPR=*userid* | Operator console signon |
| SOS=Y/N | Short on storage condition |
| MXT=Y/N | Max tasks condition |
| RWT=Y/N | Region ready and waiting for CPU |
| PDE=*program-name* | Program Definition Error |
| TDE=*task-code* | Task thread count |
| LOG>*nnn* or LOG<*nnn* | Log percent full |
| JRN>*nnn* or JRN<*nnn* | Journal percent full |
| JFC>*nnn* or JFC<*nnn* | Number of full Journals without IDMSAJNL count |
| STG>*nnn* or STG<*nnn* | Storage Pool percent full |

| Command | Function | |
|---|---|---|
| | **Option** | **Definition** |
| | PRG>*nnn* or PRG<*nnn* | Program Pool percent full |
| | P31>*nnn* or P31<*nnn* | 31-bit Program Pool percent full |
| | RNT>*nnn* or RNT<*nnn* | Re-entrant Pool percent full |
| | R31>*nnn* or R31<*nnn* | 31-bit Re-entrant Pool percent full |
| | TCT>*nnn* or TCT<*nnn* | Percentage of Maximum Tasks value |
| | TRT>*nnn* or TRT<*nnn* | Task rate—tasks per second |
| | RLE>*nnn* or RLE<*nnn* | RLE usage—percent of total |
| | RCE>*nnn* or RCE<*nnn* | RCE usage—percent of total |
| | DPE>*nnn* or DPE<*nnn* | DPE usage—percent of total |
| | ECB>*nnn* or ECB<*nnn* | ECB usage—percent of total |
| | RUL>*nnn* or RUL<*nnn* | Run Unit Locks—percent of maximum |
| | LTL>*nnn* or LTL<*nnn* | Total L-TERM Locks |
| | CPU>*nnn* or CPU<*nnn* | CPU usage rate—percent of CPU |
| | IOR>*nnn* or IOR<*nnn* | I/O rate—I/Os per second |
| | PGR>*nnn* or PGR<*nnn* | Local page-in rate—pages per second |
| | ABN>*nnn* or ABN<*nnn* | Tasks abended count |
| | BWC>*nnn* or BWC<*nnn* | Buffer waits count |
| | ITR>*nnn* or ITR<*nnn* | Interval task rate |
| | ICP>*nnn* or ICP<*nnn* | Interval CPU utilization |
| | IIO>*nnn* or IIO<*nnn* | Interval I/O rate |
| | IPG>*nnn* or IPG<*nnn* | Interval page-in rate |
| | IBW>*nnn* or IBW<*nnn* | Interval buffer waits count |
| | RSP>*nnn* or RSP<*nnn* | Replication cache storage percentage |
| | RSH>*nnn* or RSH<*nnn* | Replication cache storage high-water-mark percentage |
| | RLC>*n.nnnn* or RLC<*n.nnnn* | Replication latency for last commit process |
| | RAD>*n.nnnn* or RAD<*n.nnnn* | Replication apply delay |
| | RAE>*nnn* or RAE<*nnn* | Replication apply error count |

# Task Exception Analysis

| Command | Function | |
|---|---|---|
| IXDT | Display Task Exception definitions. These are the keywords: | |
| | EXA=*n,n,n* | Display System Exception definitions by number |
| | SET=ON/OFF | Display active/inactive Exception definitions |
| IXVT | Vary Task Exception definition thresholds, separated by a comma. (Refer to "Keywords Common to All IDMS Exception Definitions" on page 43.) Enter 0 to reset. These are the options: | |
| | **Option** | **Definition** |
| | ABN=Y/N | Task abending exception |
| | TWT=Y/N | Task ready and waiting for CPU |
| | STG>*nnnn* or STG<*nnnn* | Storage allocated (K bytes) |
| | TTM>*nnnn* or TTM<*nnnn* | Transaction time (seconds) |
| | STM>*nn.nn* or STM<*nn.nn* | System mode CPU time (seconds) |
| | UTM>*nn.nn* or UTM<*nn.nn* | User mode CPU time (seconds) |
| | LOC>*nnnn* or LOC<*nnnn* | Total number of locks currently being held |
| | DBR>*nnnn* or DBR<*nnnn* | Total number of DB Requests |
| | CRO>*nnnn* or CRO<*nnnn* | CALC record overflow count |
| | VRO>*nnnn* or VRO<*nnnn* | VIA record overflow count |
| | OFP>*nnnn* or OFP<*nnnn* | VIA/CALC overflow percent |
| | WTM>*nnnn* or WTM<*nnnn* | Current waiting time |
| | RRC>*nnnn* or RRC<*nnnn* | Records requested to current ratio |
| | RRU>*nnnn* or RRU<*nnnn* | Records updated, not committed |
| | AWT>.*nnnn* or AWT<.*nnnn* | Average Waiting Time |
| | ECB=*nnnn* | ECB wait code |
| | IOW>*nnnn* or IOW<*nnnn* | I/O waiting time (seconds) |
| | JRW>*nnnn* or JRW<*nnnn* | Journal waiting time (seconds) |
| | SPL>*nnnn* or SPL<*nnnn* | Index records splits |
| | SPW>*nnnn* or SPW<*nnnn* | Index record spawns |
| | ABC>*nnnn* or ABC<*nnnn* | Task abend request count |
| | PRR<*nnnn* or PRR<*nnnn* | Page read rate |
| | PRC>*nnnn* or PRC<*nnnn* | Page read count |
| | PDB>*nnnn* or PDB<*nnnn* | Pages read per DB call ratio |
| | RCE>*nnnn* or RCE<*nnnn* | RCE usage (short on RCE condition) |

| Command | Function | |
|---|---|---|
| | **Option** | **Definition** |
| | IOR>*nnnn* or IOR<*nnnn* | I/O rate |
| | CPU>nnnn or CPU<*nnnn* | CPU utilization (percent) |
| | DBX>*nnnn* or DBX<*nnnn* | Database request rate |
| | RRR>*nnnn* or RRR<*nnnn* | Record request rate |
| | BUT>*nnnn* or BUT<*nnnn* | Buffer utilization ratio |

# Additional Task Exception Keywords

**Note:**

Applies to Task Exception Analysis only.

| Keyword | Function |
|---|---|
| GBL=*n* | Global Task Exception definition number; no task code [(TCD=) or (TYP=)] required. Where n is:<br>1 Global system tasks<br>2 Global external run units<br>3 Global user tasks |
| EXA=*nnn* | Task Exception Definition Number; must specify task code mask (TCD =) |
| TCD=*mask* | Task code mask, jobname mask, or jobclass |
| TYP=U/E/S/J/C/O | Task types:<br>U User online task<br>E External task<br>S System task<br>J Batch external task, jobname<br>O Other external tasks<br>C Batch job class mask |
| CMX=STG, TTM... | Specify command exception keywords |
| SUP=E/A/N | Supersede other Task Exception definitions<br>E Exception occurs<br>A Always<br>N Never |
| SYS=*nnn* | Specify System Exception definition number |

## Task Abend Option

These are the keywords for Active Task Exception Analysis only:

| Keyword | Function |
|---|---|
| ABX=Y/N | Request task abend |
| ADL=*nnn* | Abend delay count |
| ALM=*nnn* | Abend limit count |

# IDMS Buffer Exception Analysis

| Command | Function | |
|---|---|---|
| IXDB | Display Buffer Exception definitions. These are the keywords: | |
| | EXA=*nnn* | Exception definition number |
| | SET=ON/OFF | Set Exception definition ON/OFF |
| IXVB | Vary Buffer Exception definitions (refer to"Keywords Common to All IDMS Exception Definitions" on page 43). These are the options: | |
| | **Option** | **Definition** |
| | BNM=*mask* | Buffer name mask |
| | IOR>*nnn* or IOR<*nnn* | I/O rate (per second) |
| | RRR>*nnn* or RRR<*nnn* | Record request rate (per second) |
| | RFB>*nnn* or RFB<*nnn* | Reads found in buffer percent |
| | BUT>*nnn* or BUT<*nnn* | Buffer utilization ratio |
| | RFC>*nnn* or RFC<*nnn* | Reads found in cache percent (IDMS 14.*x* or later) |
| | CUT>*nnn* or CUT<*nnn* | Cache utilization ratio (IDMS 14.*x* or later) |
| | BWC>*nnn* or BWC<*nnn* | Buffer waits count |
| | IIO>*nnn* or IIO<*nnn* | Interval I/O rate |
| | IRR>*nnn* or IRR<*nnn* | Interval record request rate |
| | IRF>*nnn* or IRF<*nnn* | Interval reads found in buffer percent |
| | IBU>*nnn* or IBU<*nnn* | Interval buffer utilization ratio |

| Command | Function | |
|---|---|---|
| | IRC>*nnn* or IRC<*nnn* | Interval reads found in cache percent (IDMS 14.*x* or later) |
| | ICU>*nnn* or ICU<*nnn* | Interval cache utilization ratio (IDMS 14.*x* or later) |
| | IBW>*nnn* or IBW<*nnn* | Interval buffer waits count |

# IDMS Database Exception Analysis

| Command | Function | |
|---|---|---|
| IXDD | Display Database Exception definitions. These are the keywords: | |
| | EXA=*nnn* | Exception definition number |
| | SET=ON/OFF | Set Exception definition ON/OFF |
| IXVD | Vary Database Exception definitions (refer to"Keywords Common to All IDMS Exception Definitions" on page 43). These are the options: | |
| | **Option** | **Definition** |
| | DNM=*mask* | Area name mask |
| | SEG=*mask* | Segment name mask (IDMS 12.0 only) |
| | SYM=*mask* | Symbolic name mask (IDMS 12.0 only) |
| | OPS=*xxx* | Area open access modes (IDMS 10.2 only)<br>S Shared access<br>E Exclusive access<br>P Protected access<br>* Resets the exception |
| | STA=*x* | Area status, offline<br>O Area is offline<br>* Reset the exception |
| | WTS=N/Y | Run units waiting for area exception |
| | SYS=*nnn* | Related system exception definition |
| | IOR>*nnn* or IOR<*nnn* | I/O rate (per second) |
| | RRR>*nnn* or RRR<*nnn* | Records request rate |
| | RFB>*nnn* or RFB<*nnn* | Reads found in buffer percent |
| | LOC>*nnn* or LOC<*nnn* | Locks held for records in the area |
| | RUO>*nnn* or RUO<*nnn* | Run units with area open-count (IDMS 10.2 only) |
| | RUS>*nnn* or RUS<*nnn* | Run units with area in subschema-count (IDMS 10.2 only) |

| Command | Function | |
|---|---|---|
| | **Option** | **Definition** |
| | BUT>*nnn* or BUT<*nnn* | Buffer utilization ratio |
| | RFE>*nnn* or RFE<*nnn* | Reads found in ESA dataspace or cache file percent (IDMS 14.*x* or later) |
| | EUT>*nnn* or EUT<*nnn* | ESA dataspace or cache file utilization ratio (IDMS 14.*x* or later) |
| | RFS>*nnn* or RFS<*nnn* | Requests found in storage percent (IDMS 14.*x* or later) |
| | SUT<*nnn* or SUT>*nnn* | Storage utilization ratio (IDMS 14.*x* or later) |
| | IIO>*nnn* or IIO<*nnn* | Interval I/O rate |
| | IRR>*nnn* or IRR<*nnn* | Interval record request rate |
| | IRF>*nnn* or IRF<*nnn* | Interval reads found in buffer percent |
| | IBU>*nnn* or IBU<*nnn* | Interval buffer utilization ratio |
| | IRE>*nnn* or IRE<*nnn* | Interval reads found in ESA dataspace or file percent (IDMS 14.*x* or later) |
| | IEU>*nnn* or IEU<*nnn* | Interval ESA dataspace or cache file utilization ratio (IDMS 14.*x* or later) |
| | IRS>*nnn* or IRS<*nnn* | Interval reads found in storage (IDMS 14.*x* or later) |
| | ISU>*nnn* or ISU<*nnn* | Interval storage utilization ratio (IDMS 14.*x* or later) |

# IDMS File Exception Analysis

File exception analysis is available for IDMS 14.*x* or later only.

| Command | Function | |
|---|---|---|
| IXDF | Display File Exception definitions. These are the keywords: | |
| | EXA=*nnn* | Exception definition number(s) |
| | SET=ON/OFF | Display ON/OFF Exception definitions |
| IXVF | Vary File Exception definitions (refer to"Keywords Common to All IDMS Exception Definitions" on page 43). These are the options: | |
| | **Option** | **Definition** |
| | FNM=*mask* | File name mask |
| | SYS=*nnn* | Related system exception definition |
| | IOR>*nnn* or IOR<*nnn* | I/O rate (per second) |
| | RRR>*nnn* or RRR<*nnn* | Record request rate (per second) |
| | RFB>*nnn* or RFB<*nnn* | Reads found in buffer percent |
| | BUT>*nnn* or BUT<*nnn* | Buffer utilization ratio |
| | RFE>*nnn* or RFE<*nnn* | Reads found in cache or dataspace percent |
| | EUT>*nnn* or EUT<*nnn* | Cache or dataspace utilization ratio |
| | RFS>*nnn* or RFS<*nnn* | Reads found in storage percent |
| | SUT>*nnn* or SUT<*nnn* | Storage utilization ratio |
| | IIO>*nnn* or IIO<*nnn* | Interval I/O rate (per second) |
| | IRR>*nnn* or IRR<*nnn* | Interval record request rate (per second) |
| | IRF>*nnn* or IRF<*nnn* | Interval reads found in buffer percent |
| | IBU>*nnn* or IBU<*nnn* | Interval buffer utilization ratio |
| | IRE>*nnn* or IRE<*nnn* | Interval reads found in cache or dataspace percent |
| | IEU>*nnn* or IEU<*nnn* | Interval cache or dataspace utilization |
| | IRS>*nnn* or IRS<*nnn* | Interval reads found in storage percent |
| | ISU>*nnn* or ISU<*nnn* | Interval storage utilization ratio |

# SIRF—IDMS Local Mode Interface

| Command | Function |
|---|---|
| SIRF | IDMS local mode element summary |

## Control Line Command

| Command | Function |
|---|---|
| LSEL | Local Mode Selection, separated by a comma. These are the keywords: |
| | TYP=*xxx* Local mode element type; 10.2 (10.2 Local mode run units), 12.0 (12.0 Local mode transactions) |
| | JOB=*xxx* JOB*1, JOB*2,... JOB*8; selection by job name |
| | PGM=*xxx* PGM*1, PGM*2,... PGM*3; selection by program name |
| | REP=*x* Y/N (Request auto-repeat option) |
| | SRT=*xxx* Sort field, default sequence |
| | SRT<*xxx* Sort field, ascending sequence |
| | SRT>*xxx* Sort field, descending sequence |

## Selection Line Command

| | Command | Function |
|---|---|---|
| S+ | LJOB | Job name |

## Display Line Command

| | Command | Function |
|---|---|---|
| | LMID | Run unit ID (10.2) or transaction ID (12.0) |
| S | LPGM | Program name |
| | LDAT | Date local mode element began |
| | LTIM | Time local mode element began |
| | LRST | Run unit status (10.2 only) |
| | LVRB | Current verb (10.2 only) |

| | Count | | Rate | Function |
|---|---|---|---|---|
| | LDBC | | LDBR | Database calls |
| S | LIOC | S | LIOR | Page I/Os |
| | LPQC | | LPQR | Page requests |
| | LPRC | | LPRR | Pages read |
| | LWRC | | LWRR | Pages written |
| S | LRQC | S | LRQR | Record requests |
| | LRUC | | LRUR | Records current of run unit |

| | Command | Function |
|---|---|---|
| S | LBUT | Buffer utilization ratio |
| S | LRFB | Percent reads found in buffer |
| | LRCR | Records request-current ratio |
| | LCRO | CALC records overflow count |
| | LCRT | CALC records target count |
| | LVRO | VIA records overflow count |
| | LVRT | VIA records target count |
| | LCVO | CALC/VIA records overflow percentage |
| | LJAI | Journal after images |
| | LJBI | Journal before images |
| | LRNC | Records not committed |
| | LLKR | Locks requested |
| | LLKS | Select (share) locks |
| | LLKU | Update (nonshare) locks |
| | LISR | Index searches |
| | LSPL | SR8 index record splits |
| | LSPW | SR8 index record spawns |
| | LSTA | SR8 index records stored |
| | LERA | SR8 index records erased |
| | LSTB | SR7 index records stored |
| | LERB | SR7 index records erased |
| | LORP | Orphans adopted |
| | LILV | Total index levels searched, all searches |

| Command | Function |
|---|---|
| LILB | Index levels searched, best case |
| LILW | Index levels searched, worst case |
| LSQL | SQL commands executed |
| LAMR | AM recompiles |
| LRDE | Rows deleted |
| LRFE | Rows fetched |
| LRIN | Rows inserted |
| LRUP | Rows updated |
| LSRT | Sort commands executed |
| LRSR | Total rows sorted, all sorts |
| LRSM | Minimum rows sorted, in a single sort |
| LRSX | Maximum rows sorted, in a single sort |

## Horizontal Display

| Command | Function |
|---|---|
| LMHL | Local mode horizontal display |

## Detailed Display for .SPY

| Command | Function |
|---|---|
| LMZZ | Local mode detailed display |

# 5 PreAlert/MVS

**Note:**

When an S precedes a command it symbolizes a sort field. A plus sign (+) is an overflow indicator for display purposes.

## Address Space Data (Freeze Frame)

### *Control Line Command*

| Command | Function | | |
|---|---|---|---|
| JSEL | Selection Keywords, separated by a comma. These are the keywords: | | |
| | JNM=*xxx* | JOBNAME*1,JOBNAME*2,...JOBNAME*51 | |
| | SEL=*xxx* | U | Undefined |
| | | J | Batch jobs |
| | | S | Started tasks |
| | | T | TSO users |
| | | I | Batch initiators |
| | PGN=*xxx* | PGN*1,PGN*2,...PGN*8; performance group numbers | |
| | PRD=*xxx* | PERIOD1,PERIOD2,...PERIOD8; performance group periods | |
| | SWP=*x* | I (in), O (out), L (logically swapped) | |
| | CLS=*x* | Select by job class | |
| | TRN=*x* | Y (in transaction), N (not in transaction) | |
| | CPU=*nn* | CPU rate, (NN%—utilization) | |
| | PGR=*n* | Page in rate, (N—page per second) | |
| | DMN=*xxx* | DOMAIN1, DOMAIN2,...DOMAIN8 | |
| | EXA=*x* | Y (exception found), N (no exceptions) | |
| | SRT=*xxx* | Sort field, default sequence | |
| | SRT<*xxx* | Sort field, ascending sequence | |

| Command | Function |
|---|---|
| SRT>*xxx* | Sort field, descending sequence |
| PRC=*xxx* | Procedure name mask |
| ENQ=*x* | Y (job in enqueue selection) |
| ASD=*xxx* | ASID1, ASID2,...ASID8; select jobs by ASID |
| REP=*x* | Y/N (request auto-repeat option) |

## Selection Line Command

| | Command | Function |
|---|---|---|
| + | JOBN | Select address spaces/display job name |

## Display Line Commands

| | Command | Function |
|---|---|---|
| | ASID | Address space ID number |
| | PROC | Procedure name |
| | STEP | Step name |
| | JID | Job type, added job class for batch jobs |
| | JUSR | User ID from job card |
| | CPU | Job step total CPU time |
| S | CPUR | Job step total CPU utilization by system |
| | CPUX | Job step total CPU utilization by processor |
| | CPLT | Job CPU utilization plot |
| | TCB | Job step TCB CPU time |
| | TCBR | Job step TCB CPU utilization |
| | SRB | Job step SRB CPU time |
| | SRBR | Job step SRB utilization |
| | JSTL | Job step time limit percentage used |
| | PGN | Performance Group and Period |
| | PGNA | Performance Group Name |
| S | DPRT | Dispatching priority HEX (DEC) |
| | DOMN | Domain number |
| | DOMA | Domain name |
| | OBJ | Objective number |

| | Command | Function |
|---|---|---|
| | SEQN | Position in dispatching queue |
| | JSTA | Job status |
| | JEXA | Exception reason codes |
| | JEXX | Address Space Exception definition status |
| | TMSL | Time since job selection |
| S | TMTR | Time in transaction |
| | TMLA | Time since last analysis |
| | TMSW | Time since last swap action (in or out) |
| | WAIT | Time address space has been waiting |
| | TRCT | Transaction count |
| | SWAP | Swap reason |
| | SWCT | Swap count |
| | SWRV | Swap recommendation value |
| | PIN | Local page in count |
| S | PINR | Local page-in rate (per second) |
| | PINP | Page-in rate plot by address space |
| | DPIN | Demand page-in count (total + reclaims) |
| | DPIR | Demand page-in rate (per second) |
| | TPIN | Total page-in count (local + LPA + common) |
| | TPIR | Total page-in rate (per second) |
| S | FMCT | Real storage allocated |
| S | ESCT | Extended storage usage (K bytes) |
| | PGFR | Pageable storage |
| S | FXFR | Fixed real storage (non-pageable) |
| | IOCT | I/O count |
| S | IOCR | Current I/O rate (per second) |
| | DCTI | Total device connect time |
| | DCTR | Device connect time rate |
| | QMAJ | Enqueue major name |
| | QMIN | Enqueue minor name |
| | QASI | Enqueue owner ASID and type |
| | QCNT | Enqueue count |
| | QJNM | Jobname of address space owning resource |
| | JENQ | Enqueue information for any enqueues the address space is waiting on |

| Command | Function |
|---|---|
| SRAL | Total service rate since last swap |
| SUAL | Total service units since last swap |
| SRCP | CPU service rate since last swap |
| SUCP | CPU service units since last swap |
| SRIO | I/O service rate since last swap |
| SUIO | I/O service units since last swap |
| SRMS | MSO service rate since last swap |
| SUMS | USO service units since last swap |
| SRSR | SRB service rate since last swap |
| SUSR | SRB service units since last swaP |
| SLTN | Non-VIO slots owned by the address space |
| SLTV | VIO slots owned by the address space |
| SLTT | Total slots owned by the address space |
| RPGC | Report Performance Group for job class |
| RPGN | Report Performance Group for job name |
| RPGS | Report Performance Group for subsystem |
| RPGU | Report Performance Group for user ID |
| CSTT | Total common storage size |
| CSTA | Common storage size above 16M line |
| CSTB | Common storage size below 16M line |
| CSAT | Total CSA size |
| CSAA | CSA size above 16M line |
| CSAB | CSA size below 16M line |
| SQAT | Total SQA size |
| SQAA | SQA size above 16M line |
| SQAB | SQA size below 16M line |

## Horizontal Display

| Command | Function |
|---|---|
| ASHL | Address space data horizontal display |

### Detailed Display for .SPY

| Command | Function |
|---|---|
| ASZZ | Address space detailed display |

## Address Space Plots

| Command | Function | |
|---|---|---|
| ASPL | Address space plots line command. These are the keywords: | |
| | JNM=*mask* | Jobname masks, eight allowed |
| | SEL=*xxx* | Job type, default = UE. These are the options:<br>J Batch jobs<br>S Started tasks<br>T TSO users<br>U Undefined system tasks |
| | PLT=*xxx* | Plot field, default=CPUX. These are the options:<br>CPUX XCPU utilization by processor<br>CPUT RCPU utilization by system<br>IOCR I/O rate<br>TPIR Total page-in rate<br>FMCT Working storage set size<br>ESCT Extended storage usage |
| | SRT=*xxx* | Sort field, defaults to plot field |
| | SRT<*xxx* | Sort field, ascending sequence |
| | SRT>*xxx* | Sort field, descending sequence. These are the options:<br>JOBN Job name<br>ASID Address space ID<br>CPUX CPU utilization by processor<br>CPUT CPU utilization by system<br>IOCR I/O rate<br>TPIR Total page-in rate<br>FMCT Working storage set size<br>ESCT Extended storage usage |
| | PLT=*nnn* | Plot measurement scale |
| | MIN=*nnn* | Minimum for value to be plotted, default=1 |
| | YEL=*nnn* | Yellow color threshold |
| | RED=*nnn* | Red color threshold |
| | EXA=*x* | Exception color flag; Y/O |

# Address Space Trace

Use .ASD to specify ASID.

| Command | Function |
|---|---|
| TRAC | ASID trace over 50 intervals |

# Address Space Restricted Commands

| Command | Function |
|---|---|
| TCBM | Task control block map |
| RGNA | Region storage allocation |
| RGNM | Region storage map |
| CDEM | Contents directory entry map |
| LLEM | Load list element map |

# MVS Interface

## *Miscellaneous Line Commands*

| Command | Function |
|---|---|
| ESTG | Extended storage status |

# MVS System Services

| Command | Function | |
|---|---|---|
| APFL | Modify APF list. These are the keywords: | |
| | DSN=*dsname* | Dataset to be added to the APF list |
| | VOL=*volser* | VOLSER on which the dataset resides |
| | LST=*dsname* | Specify up to the first eight characters of the dataset to be listed; LST=* for all datasets |
| | SRT=*dsn/vol* | Sort the list, by dsname or VOLSER |
| | SRT<*dsn/vol* | Sort the list, ascending sequence |
| | SRT>*dsn/vol* | Sort the list, descending sequence |
| | DEL=*dsname* | Dataset to be deleted from the APF list |
| KILL | Terminate an address space. These are the keywords: | |
| | JNM=*jobname* | Specify jobname of the address space |
| | ASD=*nnn* | Specify ASID of the address space |
| LPAM | Add/replace LPA modules. These are the keywords: | |
| | MOD=*module name* | Specify either the load module or alias name to be loaded into LPA |
| | FIX=Y/N | Load module into Y (Fixed) or (Pageable) Storage; default is N |
| | ALQ=Y/N | Specify ALPAQ reset function: Y (Allowed), N (Suppressed) |
| | DSN=*library name* | Name of load library which contains the specified module; default is SYS1.LPALIB |
| | VOL=*volser* | Specify VOLSER if library not cataloged |
| | UNT=*unit name* | Specify unit name if the library (specified module); default is SYSDA |
| SWPI | Swap-in an address space. These are the keywords: | |
| | ASD=*nnn* | Specify ASID |
| SWPN | Transwap an address space to non-swappable. These are the keywords: | |
| | ASD=*nnn* | Specify ASID |
| SWPO | Swap-out an address space. These are the keywords: | |
| | ASD=*nnn* | Specify ASID |

# CPU Utilization Plots (Freeze Frame)

| Command | Function | |
|---|---|---|
| CPUP | CPU usage plots by threshold | |
| CPUU | CPU usage by PGN or domain. These are the keywords: | |
| | USE=*type* | Summarize by type: PGN, PNAME, DOM, DNAME |
| | CPU=*nnn* | Minimum CPU rate to display |
| | PLT=*nnn* | Plot measurement scale, default=100 |
| | YEL=*nnn* | Yellow color threshold |
| | RED=*nnn* | Red color threshold |
| SYSP | SYS CPU plot (each * equals 2%) | |
| APLT | Total CPU plot for all ASIDS | |
| MPLT | Total CPU plot for MVS overhead | |
| JPLT | Total CPU plot for all batch jobs | |
| SPLT | Total CPU plot for all started tasks | |
| TPLT | Total CPU plot for all TSO users | |
| UPLT | Total CPU plot for system tasks | |

# MVS Channels and Logical Paths

| Command | Function | |
|---|---|---|
| CHPB | Channel path percent busy plot. These are the keywords: | |
| | LCU=*mask* | Logical control unit masks, eight allowed |
| | CHP=*mask* | Channel path ID masks, eight allowed |
| | IOR=*nnn* | Minimum I/O rate to display |
| | CHB=*nnn* | Minimum channel path busy value to display |
| | PLT=*nnn* | Plot measurement scale |
| | YEL=*nnn* | Yellow color threshold |
| | RED=*nnn* | Red color threshold |
| CHPR | Channel path I/O rate plot. These are the keywords: | |
| | LCU=*mask* | Logical control unit masks, eight allowed |
| | CHP=*mask* | Channel path ID masks, eight allowed |
| | IOR=*nnn* | Minimum I/O rate to display |

| Command | Function | |
|---|---|---|
| | CHB=*nnn* | Minimum channel path busy value to display |
| | PLT=*nnn* | Plot measurement scale |
| | YEL=*nnn* | Yellow color threshold |
| | RED=*nnn* | Red color threshold |
| LCUQ | LCU I/O queue report. These are the keywords: | |
| | LCU=*mask* | Logical control unit masks, eight allowed |
| | CUA=*mask* | Control unit address masks, eight allowed |
| | CHP=*mask* | Channel path ID masks, eight allowed |
| | DEV =*x* | Device type selection: D (DASD devices), T (Tape devices), * (All) |
| | IOR=*nnn* | Minimum I/O rate to display |
| | CUB=*nnn* | Minimum control unit busy delay to display |
| | CHB=*nnn* | Minimum channel path busy value to display |
| | ACB=*nnn* | Minimum all channel busy value to display |
| | CON=*nnn* | Minimum contention rate to display |
| | DLY=*nnn* | Minimum delay queue length to display |
| LCUR | LCU I/O rate plot. These are the keywords: | |
| | LCU=*mask* | Logical control unit masks, eight allowed |
| | IOR=*nnn* | Minimum I/O rate to display |
| | PLT=*nnn* | Plot measurement scale |
| | YEL=*nnn* | Yellow color threshold |
| | RED=*nnn* | Red color threshold |

# SRM Displays (Freeze Frame)

| Command | Function |
|---|---|
| SRM | SRM information display line |
| RCT | SRM MPL adjustment fields |
| DMDT | SRM domain descriptor table |
| LSCT | SRM logical swap control fields |
| PGNT | SRM performance group workload display |
| PGPT | SRM performance group period workload display |
| CCT | SRM CPU load balancing table |
| ICT | SRM I/O load balancing table |
| MCTP | SRM pageable storage control table |
| MCTS | SRM storage load balancing table |

# RMF Status

| Command | Function |
|---|---|
| RMF | RMF reporting interval status |

# MVS Wait Analysis

| Command | Function |
|---|---|
| WBGN | Begin command |
| WLIM | Sample limit |
| WTIM | Timer interval |
| WPCT | Set plot threshold percentage |
| WSJB | Select job name |
| WSPG | Select PGN |
| WRJB | Remove job name |
| WRPG | Remove PGN |
| WLJB | List job names |
| WLPG | List PGNS |

| Command | Function |
|---|---|
| WCTJ | Display jobname waits using counts |
| WCTP | Display PGN waits using counts |
| WPCJ | Display jobname waits using percent |
| WPCP | Display PGN waits using percent |
| WPLJ | Display jobname waits using plots |
| WPLP | Display PGN waits using plots |
| WSTP | Stop command |
| WSPD | Suspend command |

# System Analysis—Enqueues

| Command | Function | |
|---|---|---|
| ENQU | Display enqueues maintained in the system. These are the keywords: | |
| | JNM=*jobname* | Display enqueues for the specified jobname |
| | ASI=*asid* | Display enqueues for the specified address space ID |
| | QNM=*queue name* | Display enqueues for the specified queue name |
| | WCT=*n* | Display enqueues with a wait count greater than or equal to *n* |

# Disk Device Analysis (Freeze Frame)

## *Control Line Command*

| Command | Function | |
|---|---|---|
| DSEL | Selection keywords, separated by a comma. These are the keywords: | |
| | CUA=*xxx* | UNIT ADDRESS*1,...UNIT ADDRESS*8; selection by unit address |
| | VOL=*xxx* | VOLSER*1,...VOLSER*8; selection by volume serial |
| | ONL=*x* | Y (online), N (offline) |
| | MNT=*xxx* | P (private), S (storage), U (public) |
| | ATV=*x* | Y (active), N (not active) |

| Command | Function | |
|---|---|---|
| | BSY=*nn* | NN% busy |
| | REP=*x* | Y/N (request auto-repeat option) |
| | SRT=*xxx* | Sort field, default sequence |
| | SRT<*xxx* | Sort field, ascending sequence |
| | SRT>*xxx* | Sort field, descending sequence |
| | LCU=*xxx* | LCU*1,...LCU*8; select by LCU ID |
| | EXA=*x* | Y; devices with exceptions |
| | CON=*nnn* | Connect time >=*nnn* milliseconds |
| | DIS=*nnn* | Disconnect time >= milliseconds |
| | IOQ=*nnn* | IOS queue time >= milliseconds |
| | PND=*nnn* | Channel pending time >= *nnn* milliseconds |
| | DST=*nnn* | Device service (response) time >= *nnn* milliseconds |

## Selection Line Command

| | Command | Function |
|---|---|---|
| + | DISK | Selects disk devices/display unit address |

## Display Line Commands

| | Command | Function |
|---|---|---|
| S | DVOL | Volume serial number |
| | DSTA | Mount status |
| | DALC | Number of current allocations |
| | DOPN | Number of open DCB |
| | DLCU | Logical control unit number |
| S | DCYL | Current cylinder head |
| | DUSR | Current user |
| | DEXX | DASD Exception definition status |
| | The following commands represent data accumulated since the last RMF interval: | |
| S | DBSY | Percentage busy |
| | DDST | Average service time |
| | DIOA | Average IOQ time |
| | DCUT | Average control unit busy delay time |

| Command | Function |
|---|---|
| DDVT | Average device busy delay time |
| DPND | Average time I/O queued in channel |
| DDIS | Average device disconnect time |
| DCON | Average device connect time |
| DIOR | Average I/O rate |

### Horizontal Display

| Command | Function |
|---|---|
| DDHL | DASD data horizontal display |

### Detailed Display for .SPY

| Command | Function |
|---|---|
| DDZZ | DASD data detailed display |

## Disk Device Plots

| Command | Function | |
|---|---|---|
| DPLT | Disk device plots line command. These are the keywords: | |
| | CUA=*mask* | Device address masks, eight allowed |
| | VOL=*mask* | VOLSER masks, eight allowed |
| | FLD=*xxx* | Plot field, default=DBSY. These are the options:<br>DBSY Percent busy<br>DIOR I/O rate<br>DDST Response time |
| | SRT=*xxx* | Sort field, defaults to plot field |
| | SRT<*xxx* | Sort field, ascending sequence |
| | SRT>*xxx* | Sort field, descending sequence. These are the options:<br>DBSY Percent busy<br>DIOR I/O rate<br>DDST Response time |
| | CUA | Device address |
| | VOL | VOLSER. These are the keywords: |

| Command | Function | |
|---|---|---|
| | PLT=*nnn* | Plot measurement scale |
| | MIN=*nnn* | Minimum for value to be plotted, default=1 |
| | YEL=*nnn* | Yellow color threshold |
| | RED=*nnn* | Red color threshold |
| | EXA=*x* | Exception color flag; Y/O |

# Disk Trace

Use .VTR or .DTR to specify DASD VOLSER or unit address.

| Command | Function |
|---|---|
| DTRC | DASD trace over 20 intervals |

# Tape Device Analysis (Freeze Frame)

## Control Line Command

| Command | Function | |
|---|---|---|
| TSEL | Selection Keywords, separated by a comma. These are the keywords: | |
| | CUA=*xxx* | UNIT ADDRESS*1,...UNIT ADDRESS*8; selection by unit address |
| | VOL=*xxx* | VOLSER*1,...VOLSER*8; selection by volume serial |
| | ONL=*x* | Y (online), N (offline) |
| | ALC=*x* | Y (allocated), N (not allocated) |
| | REP=*x* | Y/N (request auto-repeat option) |

## Selection Line Command

| | Command | Function |
|---|---|---|
| S | TAPE | Selects tape devices/display unit address |

### Display Line Commands

| Command | Function |
|---|---|
| TVOL | Volume serial number |
| TLBL | File sequence number/label type |
| TUSR | Current user |
| TSIO | SIO count for current allocation |
| TERP | Permanent errors |
| TERT | Temporary errors |
| TDST | Average service time (since last RMF interval) |
| TMNT | Tape mount waiting time |

## Dataset Displays

| Command | Function |
|---|---|
| DSN | Display dataset DCB attributes and extent information |
| DSNA | Authorize view of datasets allocated to a job |
| DSNJ | Dataset name allocations (who has) |
| DSNX | Dataset for a specified VOLSER, cylinder, and head |

## Page/Swap Datasets (Freeze Frame)

Use one line command for each dataset.

| Command | Function |
|---|---|
| PDSH | Page dataset header (also use PDSN line command) |
| PDSN | Page dataset information |
| SDSN | Swap dataset information |

# Paging and Swap Analysis

| Command | Function | |
|---|---|---|
| PGRP | MVS paging activity plots. These are the keywords: | |
| | PLT=*nnn* | Plot measurement scale |
| | YEL=*nnn* | Yellow color threshold |
| | RED=*nnn* | Red color threshold |
| PGRT | MVS paging activity rates | |
| PGRU | Paging activity by PGN or domain. These are the keywords: | |
| | USE=*type* | Summarize by type: PGN, PNAME, DOM, DNAME |
| | PGR=*nnn* | Minimum paging rate to display |
| | PLT=*nnn* | Plot measurement scale, default = 100 |
| | YEL=*nnn* | Yellow color threshold |
| | RED=*nnn* | Red color threshold |
| PINL | Page-in rate plot | |
| SWPP | Swap activity plots. These are the keywords: | |
| | FLD=*xxxx* | Specify plot field. These are the options:<br>TOT — Total swap rate<br>LOG — Logical swap rate<br>LOGE — Logical swap effective rate<br>EXP — Swaps to expanded storage rate<br>EXPE — Swaps to expanded storage effective rate<br>L/E — Logical or expanded effective rate<br>AUX — Swaps to auxiliary storage rate |
| | PLT=*nnn* | Plot measurement scale, default = 100 |
| | YEL=*nnn* | Yellow color threshold |
| | RED=*nnn* | Red color threshold |
| SWPT | Swap activity table | |

# Real Storage Usage

| Command | Function |
|---|---|
| RSSZ | Total real storage size |
| RSOS | Online real storage, excluding frames backing permanent storage and offline frames |
| RSNU | Nucleus real storage usage |
| RSPO | Paging pool size, amount of real storage available for paging |
| RSTS | Total allocated real storage |
| RSTP | Total pageable real storage |
| RSTF | Total fixed real storage |
| RSAS | Total available real storage |
| RSSS | SQA real storage |
| RSSF | SQA fixed real storage |
| RSSP | SQA pageable real storage |
| RSLS | LPA real storage |
| RSLF | LPA fixed real storage |
| RSLP | LPA pageable real storage |
| RSCS | CSA real storage |
| RSCF | CSA fixed real storage |
| RSCP | CSA pageable real storage |
| RSQS | LSQA real storage |
| RSQF | LSQA fixed real storage |
| RSQP | LSQA pageable real storage |
| RSRS | Regions+SWA real storage |
| RSRF | Regions+SWA fixed real storage |
| RSRP | Regions+SWA pageable real storage |

# CSA/SQA Subpool Usage (Freeze Frame)

| Command | Function |
|---|---|
| CSAH | CSA map header |
| CSAM | CSA map of subpool usage |
| CSAS | CSA allocated storage address range map |
| CSAV | CSA virtual storage map |
| CSTG | CSA/SQA storage allocation changes |
| CSUM | CSA/SQA storage allocation summary |
| SQAM | SQA map of subpool usage |
| SQAS | SQA allocated storage address range map |
| SQAV | SQA virtual storage map |

## *MVS Common Storage Tracking*

| Command | Function | | |
|---|---|---|---|
| CSTU | CSA/SQA storage usage summary | | |
| UCSL | List unowned common storage | | |
| | LOC=*xxx* | Specify one or more common storage areas to be included in the display, default LOC=ALL. | |
| | | CSA | Common System Area, below 16M |
| | | SQA | System Queue Area, below 16M |
| | | ECSA | Extended Common System Area, above 16M |
| | | ESQA | Extended System Queue Area, above 16M |
| | | ABOVE | ECSA and ESQA |
| | | BELOW | CSA and SQA |
| | | ALL | All common storage areas |
| | JNM=*xxx* | Specifies 1 to 8 jobname masks | |
| | JID=*xxx* | Specifies 1 to 8 job ID masks | |
| | CNT=*nnn* | Specifies the display count. Default CNT=10 | |
| | SKP=*nnn* | Specifies the skip count | |
| UCSF | List unowned common storage | | |
| | ADR=*xxx* | Specifies the address of the unowned common storage area to be released. This address must exactly match the address displayed in the UCSL line command. | |

# System Summary (Freeze Frame)

| Command | Function |
|---|---|
| SYSR | Rate summary for CPU, I/O, and paging |
| SIOR | System I/O rates |

# 6 MVS Exception Analysis

| Command | Function | |
|---|---|---|
| EXAD | Display exceptions | |
| EXAL | List exception analysis areas/names | |
| EXAS | Specify Exception Threshold level, separated by a comma. These are the keywords: | |
| | LVL=*xx* | Exception level set |
| | RLD=*xx* | Reload level set |
| | SYS=ON/OFF | Activate/terminate System Analysis |
| | TSK=ON/OFF | Activate/terminate Task Analysis |
| | DSK=ON/OFF | Activate/terminate DASD Analysis |
| | MSG=N/Y/S/D | Message display options |
| | MIN=*nnn* | Minimum priority for message display |
| | MAX=*nnn* | Maximum priority for message display |
| | LOG=*xxx* | Statistics logging options |

## Keywords Common to All MVS Exception Definitions

| Keyword | Function |
|---|---|
| EXA=*nnn* | Exception definition number |
| SET=ON/OFF | Set exception definition ON/OFF |
| SPR=Y | Alter to spare entry |
| PRT=Y/N | Request screen print option |
| AND=Y/N | Request AND logic for exception thresholds |
| SND=Y/N | Request terminal sound option |

| Keyword | Function |
|---|---|
| LOG=*xxx* | Request statistics/display logging to SMF or dataset<br>S MVS system statistics summary<br>D Screen display<br>M Log only exception message<br>N No logging for this exception<br>* Remove logging option |
| PRI=*nnn* | Specify priority for exception definition; default =1 (used for message sequence and screen chaining) |
| LIM=*nnn* | Exception limit (enter 0 to cancel) |
| LMX=*nnn* | Exception limit—*x*. Limits each exception occurrence |
| DLY=*nnn* | Exception delay (enter 0 to cancel) |
| TOD>*hhmmm* | Time of day range—lower limit (enter 0 to cancel) |
| TOD<*hhmmm* | Time of day range—upper limit (enter 0 to cancel) |
| TLM=*nnn* | Time of day range limit (only in effect with TOD) |
| TDL=*nnn* | Time delay of exception before exception triggered |
| TIN=*nnn* | Time interval—tests for exception only (*nnn* seconds) |
| MSG=*message* | User supplied exception message (enclose in quotes) |
| MSG=* | Resets exception messaging |
| CLR=*x* | Message color, PreAlert displays only:<br>R Red<br>W White<br>Y Yellow<br>B Blue<br>G Green<br>N Reset |
| USR=*userid* | Send exception message to TSO user ID list, separated by a comma, enclose in quotes |
| USR=* | Resets user ID list to none |
| CON=Y/N | Send exception message to MVS console |
| RTC=*n,n,.* | Specify console route codes |
| DSC=*n,n,.* | Specify console descriptor codes |
| SCR=*screen* | Specify screen chaining name |
| SCR=* | Resets screen chaining |
| SDL=*nnn* | Specify screen chaining delay (enter 0 to cancel) |
| SLM=*nnn* | Specify screen chaining limit (enter 0 to cancel) |
| FRZ=Y/N | Activate/terminate freeze frame option (only active with screen chaining) |
| CMD=*command* | Specify command image (enclose in quotes) |
| CMD=* | Resets command option |

| Keyword | Function |
|---|---|
| CDL=*nnn* | Specify command delay (enter 0 to cancel) |
| CLM=*nnn* | Specify command limit (enter 0 to cancel) |
| JOB=*jobname* | Specify jobname to be submitted |
| JOB=* | Resets jobname |
| ASF=*asfid* | Specify ASF system ID |

# MVS System Exception Analysis Thresholds

| Command | Function | |
|---|---|---|
| XDSY | Display System Exception definitions, separated by a comma. These are the keywords: | |
| | EXA=*n,n,n* | Display System Exception definitions by number |
| | SET=ON/OFF | Display active/inactive Exception definitions |
| XVSY | Vary System Exception definitions, separated by a comma (refer to "Keywords Common to All MVS Exception Definitions" on page 77). These are the options: | |
| | **Option** | **Definition** |
| | ASE>*nnn* or ASE<*nnn* | Specify ASM local slot errors |
| | ASQ>*nnn* or ASQ<*nnn* | Specify ASM IOQ length |
| | ASL>*nnn* or ASL<*nnn* | Specify ASM slots remaining percent |
| | ASV>*nnn* or ASV<*nnn* | Specify ASM VIO slots percent of total slots |
| | ASN>*nnn* or ASN<*nnn* | Specify ASM non-VIO slots percent of total slots |
| | PDE=Y/N | Activate/terminate page dataset errors |
| | PDF=Y/N | Activate/terminate page dataset failure |
| | SDE=Y/N | Activate/terminate swap dataset errors |
| | SDF=Y/N | Activate/terminate swap dataset failure |
| | SRM=Y/N | Activate/terminate SRM reducing MPL |
| | SRC>*nnn* or SRC<*nnn* | Specify SRM average CPU rate |
| | SRA>*nnn* or SRA<*nnn* | Specify SRM ASM IOQ length |
| | SRD>*nnn* or SRD<*nnn* | Specify SRM demand paging rate |
| | SRU>*nnn* or SRU<*nnn* | Specify SRM unreferenced interval count (UIC) |
| | SRP>*nnn* or SRP<*nnn* | Specify SRM page rate |
| | SRT>*nnn* or SRT<*nnn* | Specify SRM page delay time |

| Command | Function | |
|---|---|---|
| | **Option** | **Definition** |
| | DMN=Y/N | Activate/terminate Domain overload |
| | OPW>*nnn* or OPW<*nnn* | Specify operator WTO buffer usage percent |
| | OPR>*nnn* or OPR<*nnn* | Specify outstanding operator OPR count |
| | STG>*nnn* or STG<*nnn* | Specify main storage usage percent |
| | CSA>*nnn* or CSA<*nnn* | Specify CSA usage percent |
| | SQA>*nnn* or SQA<*nnn* | Specify SQA usage percent |
| | EMA>*nnn* or EMA<*nnn* | Specify E-STG migration age |
| | ESW>*nnn* or ESW<*nnn* | Specify E-STG write rate |
| | ESR>*nnn* or ESR<*nnn* | Specify E-STG read rate |
| | ESM>*nnn* or ESM<*nnn* | Specify E-STG migration rate |
| | TPM>*nnn* or TPM<*nnn* | Specify tape mount time (seconds) |
| | SWR>*nnn* or SWR<*nnn* | Specify total swap rate (all swaps) |
| | SWE>*nnn* or SWE<*nnn* | Specify logical/expanded effective percent |
| | LIO>*nnn* or LIO<*nnn* | Specify LCH I/O rate |
| | LCB>*nnn* or LCB<*nnn* | Specify LCH all channels busy percent |
| | RMF=Y/N | Activate/terminate RMF active analysis |
| | MIS=*jobname* | Specify missing task (jobname) analysis |
| | CPU>*nnn* or CPU<*nnn* | Specify current CPU rate (ref. SYSR) |
| | IOR>*nnn* or IOR<*nnn* | Specify current I/O rate (ref. SYSR) |
| | PGR>*nnn* or PGR<*nnn* | Specify current paging rate (local + common) |
| | TPI>*nnn* or TPI<*nnn* | Specify percent I/O's handled by TPI |

# MVS Address Space Exception Analysis Thresholds

| Command | Function | |
|---|---|---|
| XDTK | Display Task Exception definitions, separated by a comma. These are the keywords: | |
| | EXA=*n,n,n* | Display Task Exception definitions by number |
| | SET=ON/OFF | Display active/inactive Exception definitions |
| XVTK | Vary Task Exception definitions, separated by a comma (refer to "Keywords Common to All MVS Exception Definitions" on page 77). These are the options: | |
| | **Option** | **Definition** |
| | JNM=*jobname* | Specify job name mask |
| | CLS=*x* | Specify job class (batch jobs only) |
| | TYP=J/S/T | Specify job type (JOB/STC/TSO) |
| | PGN=*nnn* PRD=*nnn* | Specify PGN and Period |
| | SWP=I/O/L/P | Specify swap status (In/Out/Logical/Physical) |
| | NSW=Y/N | Specify non-swappable status |
| | SUP=E/A/N | Supersede other Task Exception definitions<br>E Exception occurs<br>A Always<br>N Never |
| | SYS=*nnn* | Specify MVS System Exception definition number |
| | TTM>*nnn* or TTM<*nnn* | Specify transaction time |
| | WTM>*nnn* or WTM<*nnn* | Specify waiting time |
| | WKS>*nnn* or WKS<*nnn* | Specify working storage set size |
| | FIX>*nnn* or FIX<*nnn* | Specify fixed storage size |
| | EST>*nnn* or EST<*nnn* | Specify E-storage size |
| | SLT>*nnn* or SLT<*nnn* | Specify total slot usage |
| | SWC>*nnn* or SWC<*nnn* | Specify swap count threshold |
| | CPU>*nnn* or CPU<*nnn* | Specify CPU rate percent by system |
| | CPX>*nnn* or CPX<*nnn* | Specify CPU rate percent by processor |
| | STL>*nnn* or STL<*nnn* | Specify job step time limit percent |
| | IOR>*nnn* or IOR<*nnn* | Specify I/O rate |
| | PGR>*nnn* or PGR<*nnn* | Specify total paging rate (local+common) |

# MVS DASD Exception Analysis Thresholds

| Command | Function | |
|---|---|---|
| XDDK | Display MVS DASD Exception definitions. These are the keywords: | |
| | EXA=*n,n,n* | Display System Exception definitions by number |
| | SET=ON/OFF | Display active/inactive Exception definitions |
| XVDK | Vary MVS DASD Exception definitions (refer to "Keywords Common to All MVS Exception Definitions" on page 77). These are the options: | |
| | **Option** | **Definition** |
| | VOL=*volser* | Specify VOLSER mask |
| | CUA=*channel unit addr* | Specify CHAN.UNIT address mask |
| | SYS=*nnn* | Specify System Exception definition number |
| | RDY=Y/N | Activate/terminate device has dropped ready |
| | SUP=E/A/N | Supersede other DASD Exception definitions<br>E Exception occurs<br>A Always<br>N Never |
| | BSY>*nnn* or BSY<*nnn* | Specify DASD percent busy |
| | IOR>*nnn* or IOR<*nnn* | Specify DASD I/O rate |
| | RTM>*.nnn* or RTM<*.nnn* | Specify response time (device service time) |