I O F

**Interactive Output Facility
Quick Reference Summary**

Release 8A

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Key to using this quick reference

Commands are in **Bold type**. Upper case letters show the minimum abbreviation. Optional operands are shown in brackets ([ ]). Optional values are separated by slash (/), and default values are underlined. "nnn" represents a numeric operand. "m1", "m2", etc. represent menu numbers.

Common Primary Commands

These commands are available on all IOF panels and will normally be available on PF Keys.

HELP	Help for the current panel
END	Go back to higher level panel
RETurn	Go back to *IOF Job List Menu*
EXit or **X**	Exit mainline IOF
RIght	Scroll right
LEft	Scroll left
Up	Scroll up
Down	Scroll down

Jump Function and Logical Line Delimiter

Slash (/) is the IOF jump key and may be used from any IOF panel. Slash alone always returns to the *IOF Option Menu*. The slash may be followed by an IOF primary option.

The period (**.**) is used as a logical line delimiter. Multiple IOF commands may be entered on the same input line if separated by a period (**.**).

Line Commands using Menu Numbers

IOF line commands optionally can be entered in the COMMAND area by entering the menu number(s) or menu number range, followed by the command. For example:

    2 4 7-9 C

cancels items 2, 4, and 7 through 9.

IOF Option Menu

The primary options are defined on the *IOF Option Menu*. The options each user is authorized to use are listed on the *Option Menu*.

All primary options can be followed by a question mark (?) to produce a more detailed option menu. For example, entering "**/G?**" from any IOF panel displays the *Output Group Selection Menu*.

Over-typing Display Fields

IOF allows changes to a job, dataset, group, and device characteristics by over-typing panel fields. Over-typeable job characteristics include class, priority, and destination. Forms, destination, and class are examples of output group over-typeable characteristics. All device and held data set characteristics are over-typeable.

Other Primary Options

The commands below are available on the *IOF Option Menu* but are not displayed on the panel in the list of available options.

CUR	Select the current TSO session
MAINT	Run the IOF maintenance dialog
NEW	Show new features of this release
JOBnnnn	Select job with jobid Jnnnn
STCnnnn/TSUnnnn	Select STC or TSU nnnn

Generic Parms

Plus (+) is a one-character wildcard in jobname and scope fields, and the asterisk (*) is a wildcard terminator.

Global commands

Global commands can be issued from any IOF panel:

PREFIX [jobname]	Save generic jobname prefix in profile
OWNER [userid]	Save owning userid in profile
DEST [routecde]	Save global destination in profile
SYSID [sysid]	Save SYSLOG system id in profile
Every n [cmd]	Refresh display every n seconds; with optional command

The question mark (**?**) can be entered as a line command on any IOF panel to get more detailed information about the task, job, group, data set or device being displayed. Most line commands can be followed by question mark to get a more detailed panel.

Job List Menu and Output Group Display

Primary Commands

RC [CUR] [N] [SA/SD]   Display highest return/abend code
EXCLude field operator value   Exclude when field meets condition of operator and value; operators are **EQ, NE, LT, GT, GE, LE, CT, BG, NC, NB**
UNEXCL field operator value. Reverse of EXCL
SORT [field 1 A/D field2 A/D field3 A/D field4 A/D Sort

FIELD	Determine field name under the cursor
ALTVIEW	Display an alternate view of the panel
CUT/PASTE/ARRANGE	Customize the panel columns

FIND value [field(fieldname)] [section(sectionname)[]
                Find value in field and optional section

EXTEND	Display additional job/group information
SS/SD	Define target sysout or MVS snap data set
SNAPCLOS	Close and free snap target data set
SNAPTEXT	Add text to SNAP target data set
SNAPPAN	Snap a copy of the panel
OFFLOAD	Offload all jobs on *Job List Menu*

Line Commands

?	Job/group attributes panel for assistance
S	Select job/group for *Job Summary Panel*
SQ	Select quick display of sysout data sets
B	Browse entire job/group as one dataset
C	Cancel job/group; input jobs go to output
A	Release held job/group
T (or blank)	Modify over-typed characteristics
PC	Show why output will not print (print check)
V	View the job/group using a saved index
X	Exclude job/group from the display
N	Snap entire job/group
CMT	Add 40 chars. of comments
HDR	Add block header to SNAP target data set

The following commands are only valid for jobs.

H	Hold job
PR	Print job
PU	Purge job
R	Release job's held datasets
ED	Reconstruct and edit original job with ISPF editor
SUB	Submit another copy of the original job
CDUMP	Cancel running job with a dump
E	Restart a running job
SJ	Start input job immediately (goal mode only)
DUMPCB	Dump control blocks for job

The following commands are only valid for groups.

W	Set OUTDISP=WRITE
H	Set OUTDISP=KEEP
K	Set OUTDISP=KEEP
L	Set OUTDISP=LEAVE
PROF	Set addressing info from the profile
OPER	Put group on operator hold

Job Summary Panel

Primary Commands

Browse	Concatenate all datasets of job for browse
INPUT [ON/OFF]	Display input datasets
EDit	Reconstruct and edit job with ISPF editor
PC	Show why job will not print (print check)
REFRESH	Update display; useful with running jobs
SD	Define an MVS target snap dataset
SS	Define a spun sysout target snap dataset
SNAP	Snap entire job to target data set
SNAPCLOS	Close the snap data set
SNAPTEXT	Add text to snap target data set

EXCLude fieldname oper value   Exclude steps and/or datasets from the panel
UNEXCL fieldname oper value   Return excluded
VIEW * [INDEX(index.dsn)]   View job using saved index
SNAPPAN Snap a copy of the panel

Line Commands

?	Display dataset attributes panel
S or B	Select dataset for browse
F	Format a graphics page mode data set
C	Cancel a held dataset
R	Release a held dataset
N	Snap a copy of the dataset
P	Print an exact copy of the dataset
M (or blank)	Modify over-typed dataset characteristics
X	Exclude a dataset from the display
ED	Edit a copy of data set with ISPF editor
BI	Build a data set index
LIST	List the data set to a line mode terminal
CG	Cancel all data sets in an output group
MG	Modify all data sets in an output group
PC	Show for why group will not print (print check)
SS	Open snap target like this data set
HDR	Add block header to snap target data set
RG	Release all sysouts in held group
H	Set OUTDISP to HOLD
W	Set OUTDISP to WRITE
K	Set OUTDISP to KEEP
L	Set OUTDISP to LEAVE
SB	Browse with ISPF browse
COMP	Compare sysout to another data set

ALLOC DDNAME(ddname) [LRECL(lr)] [BLKSIZE(bk)]
  RECFM(rf)   Allocate data set for external use

Follow any line command with question mark (**?**) to see a more detailed option panel.

IOF Browse

IOF browse is very similar to ISPF browse except that IOF displays your data as it would appear on the printed page. IOF browse, therefore, has several unique commands to deal with printed pages and other IOF differences.

Unique IOF Browse Commands

Next	Browse the next sysout dataset
PREVious	Browse the previous sysout dataset
SNAP	Snap a copy of the current screen
SNAP [nnn Lines/Pages]	Snap nnn lines/pages from top of current screen
.label	Establish a label
Locate label	Reposition to a defined label
Page nnn	Position to page nnn
Line nnn	Position to line nnn on current page
COMPRESS [ON/OFF]	Horizontal compression
CONDENSE [ON/OFF]	Vertical compression
DISPLAY [CC/NOCC]	Carriage control display
SI [DA(index.dsn)]	Save the browse index for later reuse with the VIEW command
INDex [/indexname]	Display index/indices
DEFINDEX /indexname [title]	Define an index
DEFENTRY /indexname indexitem	Define an index entry
BI	Build a data set index
EDit [nnnn]	ISPF edit nnnn records from top of screen
TEXTREF	Lookup word under cursor in Bookmgr

IOF SNAP

The SNAP facility allows you to copy all or parts of sysout dataset(s) to any non-vsam dataset. SNAP can be issued from the *Job List Menu, Output Group Display, Job Summary Panel* or from *IOF Browse*. By default, snap output is routed to your default print destination and sysout class. The SS and SD commands can be used to override the default and explicitly define (allocate) the target snap dataset.

If the SS and SD commands are issued from the *Job List* or *Output Group Display*, the target data set remains open until another SS, SD or SNAPCLOS is issued or until the IOF session terminates. When issued from *Job Summary Panel* or *Browse*, the target data set remains in effect until another SS, SD or SNAPCLOS command is issued or until the review of the current job is terminated.

The **SNAPTEXT** command will add text to the target snap data set. **SNAPHDR** adds block text to the target.

Device List Menu and Initiator Display

See the *Job List Menu* description of the **EXCLUDE**, **SORT, FIND, FIELD** and **LOCATE** primary commands which also function on the *Device List Menu* and *Initiator Display*.

Enter **'S'** line command to display the *Device Detail Menu* for a device. All valid JES2 commands for the device can also be entered as line commands. Device characteristics and initiator classes can be over-typed directly on the *Device List Menu* or on the *Detail Menu*.

System Log or Sysplex Operlog

The **'LOG'** option enters **Syslog** or **Operlog** browse. While browsing a log, enter **'L hhmm'** to locate a specific hour (hh) and minute (mm). Enter **'IND'** to display the *Data Indices Menu* of indexed SYSLOG events. Then, select specific indices and indexed events.

'LOG O' jumps to **Operlog**. **'LOG S'** jumps to **Syslog**. **'LOG O -1'** jumps to yesterdays Operlog. **'LOG OLD'** shows menu of old logs.

Enter **'<cmd'** to issue JES2 and MVS commands and automatically scroll to the command you issued in the log.

The **ACTION** command controls display of action messages at the bottom of the log display. ACTION parameters are:

OFF	Remove all action messages
DISABLE/ENABLE	Enable or disable
DEFAULT	Set group default
MVS	Add route codes 1-12
USER	Add route codes 13-28
ALL	All route codes 1-28
n,m...	Add specified route codes

System Monitor

See the *Job List Menu* description of the **EXCLUDE, SORT, FIND, FIELD, LOCATE**, and **EXTEND** primary commands which also function on the *System Monitor*. Many line commands also function the same. The **EVERY** command can be used to automatically refresh the display.

Line Commands

S	Select task for *IOF Job Summary Panel*
C	Cancel jobs
B	Browse whole job as one data set
X	Exclude task from the display

Personal Extended MCS Console

Enter **CONSOLE** (or **CN**) from any IOF panel to invoke the IOF personal console. Alternately, enter **$jes2cmd** or **#mvscmd** to issue a JES2 or MVS command and automatically invoke the console. Enter **MVS** for panel for long commands.

Additional Console Commands

AUTOCON ON/OFF	Enable/disable automatic console; can be issued from any IOF panel; saved in profile
AUTOROUT sysid	Automatically route all commands to another system in the sysplex
MFORM [M/S/J/T]	Control message format
ROUTcde [NONE/ALL/ADD/DEL] [codes]	Additional route codes to be displayed
DC	Display console status
Clear	Clear all commands and messages
CNSICMD # command [DELETE]	Set 1 to 9 commands to be executed each time console is initialized
CNSKEEP	Leave console active on exit
CNSCROLL [ON/OFF]	Automatic console scrolling

Miscellaneous Global Commands

The commands below can be entered on any IOF panel when authorized.

TS	Popup window for entering long TSO commands
MVS	Popup window for entering MVS/JES2 commands
SR	System requests panel
< mvscmd	Issue MVS command, find response in SYSLOG
QT	IOF quick trainer tailored to each user
NEW	New features for this release of IOF
WHO	Information about your session
DVAR [varname]	Display IOF variable(s)
INFO	**Rexx** and **Clist** programmable interface info
SHELF bm_shelf	Bookshelf name
AT server	Initiate an IOF server session

Each user can customize most IOF panels. Enter **'CUT'** with cursor pointed to an IOF field; then, move cursor to the target field and enter **'PASTE'**. The field will be moved after the target field; the change is saved in users profile. Enter **'ARRANGE DEFAULT'** to reset to the default format.

IOF Server

Enter **'AT'** to determine names of available IOF servers in your sysplex.

Panel Customization

Each user can customize most IOF panels. Enter **'CUT'** with the cursor pointed to an IOF field; then, move cursor to the target field and enter **'PASTE'**. The field will be moved after the target field; the change is saved in users profile. Enter **'ARRANGE DEFAULT'** to reset to the default format.

Unix Processes

Primary Commands

EXCLude field operator value	Exclude when field meets condition of operator and value; operators are **EQ, NE, LT, GT, GE, LE, CT, BG, NC, NB**
UNEXCL field operator value.	Reverse of EXCL
SORT [field 1 A/D field2 A/D field3 A/D field4 A/D	Sort
FIELD	Determine field name under the cursor
CUT/PASTE/ARRANGE	Customize the panel columns
SS/SD	Define target sysout or MVS snap data set
SNAPCLOS	Close and free snap target data set
SNAPTEXT	Add text to SNAP target data set
SNAPPAN	Snap a copy of the panel

Line Commands

S	Select process for more detailed information
D	Display a detail panel for the process
M	Display the process on the IOF Monitor
T	Display list of process threads
KT	Kill the process
KF	Force kill the process
KS	Superkill the process
C	Cancel the process address space

Enclaves

Primary Commands

The Enclaves primary commands are the same as Unix Process primary commands.

Line Commands

Q	Quiesce the enclave
R	Resume a quiesced enclave
S	Select an enclave for more information
Blank	Overtype the service class of the enclave