IBM System/370 Reference Summary

JES3

Job Entry Subsystem 3

JES3 Operator Commands and Dynamic Support Programs

GX23-0003-3

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Printed in U.S.A. GX23-0003-3 (9/79)

PREFACE

The information contained herein is summarized from *OS/VS2 MVS Operator's Library: JES3 Commands,* GC23-0008, *OS/VS2 System Programming Library: JES3 Debugging Guide,* GC28-0703 and *OS/VS2 MVS System Programming Library: JES3,* GC28-0608.

Syntax Information: The formats of the commands described in this publication conform to the following rules.

- Uppercase letters and words, as well as the following special characters, are coded exactly as they appear:

&	ampersand	( )	parentheses
*	asterisk	.	period
,	comma	?	question mark
=	equal sign	/	solidus
–	dash	<>	carets

  Note: All commas can be replaced by a space.

- Lowercase letters, words, and symbols represent variables for which specific information is substituted when the parameter is coded.

- Braces, { }, are a special notation and are never coded. They are used to group alternative items, one of which must be chosen. If one of the group is underlined, it is assumed as the default.

- Brackets, [ ], are a special notation and are never coded. They indicate that coding the enclosed item or items is optional. You can code one or more items or none.

- An ellipsis, . . . , is a special notation and is never coded. It indicates that the preceding item can be coded more than once in succession.

- The first asterisk (*) in a command can be replaced by an eight (8).

Fourth Edition (September 1979)

This is a major revision of, and obsoletes, GX23-0003-2. This edition applies to Release 3 (Selectable Unit ID5752-826) of Job Entry Subsystem 3 (JES3) with changes to support systems netowrk architecture remote job processing (SNA RJP) and to all subsequent releases and modifications until otherwise indicated in new editions or technical newsletters. Changes are continually made to the information herein; before using this publication in connection with the operation of IBM systems, consult the latest *IBM System/370 Bibliography,* GC20-0001, for the editions that are applicable and current.

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Command	Description	Type
***CALL or *X**		
*X,dspname[,message text]	Call a dynamic support program into execution.	(Note 1)
***CANCEL or *C**		
*C, { dspname / dev / dev adr / J=jobno / lname / main } [,message text]	Cancel the specified DSP or the DSP on the specified device, line, or processor. J= specifies the JES3 job number of the DSP.	(Note 1)
***DELAY or *D**		
*D,nn	Change the time interval between messages displayed on the graphics console. Acceptable values are 0, 1/4, 1/2 and 1 through 20. Delay interval of 0 for the 3277 initiates page mode operation.	
***DISABLE or *H**		
*H,con	Terminate I/O operations on the specified console.	
***DUMP**		
*DUMP[,password] [,title]	Force an abend of JES3 and return to MVS. Password is required when used on the local processor. Title may be 60 characters or less.	
***ENABLE or *N**		
*N,con	Reinitialize I/O operations on the specified console.	
***ERASE or *E**		
*E	Erase contents of the graphics display and reposition the cursor.	
***FAIL**		
*FAIL, { dspname / dev / dev adr / J=jobno } [,DUMP]	Force termination when the DSP will not respond to *CANCEL. J= specifies the JES3 job number of the DSP.	
***FREE**		
*FREE	Terminate all messages queued to the console from which this command is entered.	
***INQUIRY or *I**		
*I,A { ,main / ,D=dspname / ,D=ALL / ,D=DLINE / ,D=DEADLINE / blank }	Display jobs currently on the named processor. Display jobs being processed by the designated DSP. Display all jobs being processed by all DSPs. Display all active jobs in the deadline queue. Display jobs being processed by the DEADLINE DSP. Display jobs currently on all processors.	Active jobs
*I,B { ,M / ,main / blank / ,T=grp / ,G=dev group }	Display jobs in the resident job queue. Display jobs eligible for the specified processor. Display backlog of all jobs. Display backlog of jobs for the specified terminal group of origin. Display jobs originating from the designated device group.	Backlog jobs

NOTE:
1. See "Contents" for JES3 functions listed by area and name.

Command	Description	Type
***INQUIRY or *I (cont.)**		
*I,C { blank / ,C / ,C,R }	Display status of JES3 buffer pool. Display status of JES3 console buffer pool. Display status of JES3 console buffer pool and reset buffer counters to zero.	Buffer pools
*I,D { blank / ,N={10 / nnn / ALL} / ,D=(dev,...) / ,L={(lname,[,lname]...) / ALL} / ,T={(wsname,[wsname]...) / ALL} / ,(main[,main]...) / ,V=(vol[,vol]...) / ,MSU=unit name [{,ALL / ,main}] / ,SDG=nn }	Display status of the first 10 global processor devices. Display status of the specified number of global processor devices. Display status of specified device(s). Display status of the specified or all BSC RJP lines. Display status of the specified or all BSC RJP or SNA RJP work stations. Display status of devices on specified processor. Display status of device on which specified volume is mounted. Display the status of the designated mass storage unit. Display the status of the designated staging drive group.	JES3-managed devices
*I,G,main { {,S / ,SELECT}[,(opt[,opt]...)] / {,G / ,GROUP}[,(grp[,grp]...)] / {,C / ,CLASS}[,(cls[,cls]...)] / ,CHK / ,SMR }	Display current select mode options or specified options. Valid options are: MAGER, MAGEL, SAGER, SAGEL, DISPLAY, DPRTY, SDEPTH, SBAR, INCR, INCL, CHOICE, LSTOR, MODE, MAXI. Display execution resource status of all or specified job class groups. Display status of all or specified job classes. Display GMS checkpoint record in dump format. Display select mode records in dump format.	Generalized main scheduling (GMS)
I,J={(jobname[,jobname]...) / (jobno[,jobno]...) / (jj[,jj*]...)} [,E] [,T=termgrp]	Display the status of specified job name/number. Display jobs whose names begin with the characters up to the " * " Display estimated lines/cards (actuals if processing is complete). Limit display to jobs from specified terminal group.	JES3 jobs
*I,K { ,N / ,N=(tab[,tab]...) / =nn,N=(tab[,tab]...) }	Display all PFK and SP table names. Display predefined message for designated key (1 to 12) from specified table name.	PFK and SP tables
*I,L[,T=(type[,type]...)]	Display all or specified deadline scheduling types.	Deadline
*I,M,main[,(cde[,cde]...)]	Display MCS code routing for all or specified codes.	MCS route codes
*I,N { blank / ,ID=(net[,net]...) [,J={(jobname[,jobname]...) / (jobno[,jobno]...)}] / ,LIST }	Display status of all active DJC networks. Display status of designated job name(s)/number(s) within specified net(s). Multiple network IDs, or job name/numbers may not be given together. Display status of all jobs in specified net(s).	DJC networks
I,O { blank / = / =(con[,con]...) / =(con[,con]...),K / =(con[,con]...),main / =(con[,con]...),DEST / ,D }	Display status of all JES3 consoles. Display name and status of console from which command was entered. Display status of designated console. If no console is specified, all are displayed. Display PFK and SP table for designated console. Display MCS console ID of specified console on specified processor. Display JES3 destination classes for specified console. Display all JES3 consoles that are queued to depth.	Consoles
*I,P=prty [,N={10 / nnn / ALL}] [,T=term]	Display status of first 10, nnn, or all jobs of the specified priority (00-15). Limit display to jobs submitted from specified terminal.	Priorities

Command	Description	Type
***INQUIRY or *I (cont.)**		
*I,Q { blank ,S ,D=dspname ,H { ,C=cls / ,G=grp / ,J=jobno / ,T={ device group / termgrp } } [,N={ 10 / nnn / ALL }] }	Display all jobs in system queue. Display amount of spool space left. Display status of jobs queued for specified DSP. Display the jobs in operator hold status. Display jobs of specified job class. Display jobs of specified group. Display job queue beginning at specified job number. Display jobs submitted from specified device group. Display jobs submitted from specified terminal group. N= specifies the number of jobs to display.	Job queue status
*I,R { blank ,main ,dspname { ,SETUP / ,S } { blank / ,J=jobno / ,C=Snn } }	Display all outstanding operator action messages. Display action messages for specified processor. Display action messages for specified DSP. Display all outstanding setup operator action messages. Display setup messages for specified job number. Display setup messages for specified setup console.	Outstanding replies
*I,S { ,ALWIO blank ,F ,W ,V ,B { ,A / ,U / ,E / ,R } [,J=jobno] ,D=dsn ,DE=dsn ,V={ vol [,E] / ALL [,E] / RES } ,MR }	Display the current in use, allowed (ALWIO) and maximum (MAXIO) number of asynchronous I/O requests which can be processed simultaneously. Display summary of MDS queues. Display jobs currently on MDS fetch queue. Display jobs currently on MDS WAITVOL queue. Display jobs waiting to be verified by setup. Display jobs having their device requirements deallocated. Display jobs in MDS allocate queue or specified job from that queue. Display jobs waiting for unavailable volumes. Display jobs in MDS error queue or specified job from that queue. Display jobs in MDS restart queue or specified job from that queue. If J=jobno is specified, more detailed information concerning that job is given. Display status of fully qualified data set name (separated by blanks or commas, not periods). Display status of fully qualified data set name (separated by blanks or commas, not periods) and list all jobs referencing data set. Display status of specified volume. If E specified, list jobs referencing volume. Display count of MDS-managed volumes. If E, list all managed volumes. Display volumes specified on SETRES statement. Display the current value of the MSVC virtual unit reserve count.	MDS setup
*I,T,L={ (lname[,lname]...) / ALL } { ,P / ,STAT[,R] }	Display password for all or specified BSC RJP line names. Display line error statistics for all or specified BSC RJP line names and optionally reset counters to zero.	BSC RJP lines

Command	Description	Type
***INQUIRY or *I (cont.)**		
*I,U,Q=HOLD [,CONS=con] [,N={10 | nnn | ALL}] [,J={? | jobname | jobno}] [{,DD={? | ddn}[,S={1 | nnn}] | ,DSID={? | data set id} | ,W={? | extwrite}}] [,REQ=ALL] [,CL={? | cls}] [,D={? | dest}] [,ID={? | userid}] [,L={? | minline count}] [,P={? | prty}] [,T=device group]	Specifies console to receive response. If omitted, respond to requesting console. Display the specified number of lines of response. Display status of all (?) or specified jobs in the queue, giving job name and number and summary of output by job. Display the status with qualifications as specified by the following parameters. Display status of all (?) or specified ddnames for specified job. If specified, the ddname must be qualified as it appears in the job's JCL (jobstepname. procstepname. ddname); names that are omitted must be indicated by including the period (for example, . . . SYSMSG). S= specifies the sequence number for identical ddnames. Display status of all or specified (1-8 characters) 3540 Diskette data sets in hold queue. Display status of all (?) or specified external writer data sets in hold queue. Display summary information for each general type of output in the hold queue. Display SYSOUT classes in hold queue or status of data sets of specified SYSOUT class. Display destination of jobs in hold queue or status of data sets for specified destination. Display user IDs having data sets in hold queue or status of data sets for specified user ID. Display line counts for data sets in hold queue or set minimum line count of data sets to be displayed. Display priority of data sets in hold queue or status of data sets of specified priority. Display status of data sets destined for, or originating from, specified device group.	Output service, hold queue (Note 2)

NOTE:

2. The *INQUIRY,U command is presented in three different formats here: *I,U,Q=HOLD for jobs on the hold queue; *I,U,Q=WTR for jobs on the writer queue; and *I,U,Q=WTR with additional parameters only for the IBM 3800 Printing Subsystem. Parameters that may be used with either Q=HOLD or Q=WTR are repeated; the others may only be used as shown. Parameters may be used together to qualify the requested display. If specific parameters must be used in combination, they are presented on the same line in the format.

Command	Description	Type
***INQUIRY or *I (cont.)**		
[,CONS=con]	Specifies console to receive response. If omitted, respond to requesting console.	Output service, writer queue (Note 3)
[.N={10 / nnn / ALL}]	Display the specified number of lines of response.	
[,J={? / jobname / jobno}]	Display status of all (?) or specified jobs in the queue, giving job name and number and summary of output by job. Display the status with qualifications as specified by the following parameters.	
,DD={? / ddn} [,S={1 / nnn}]	Display status of all (?) or specified ddnames for specified job. If specified, the ddname must be qualified as it appears in the job's JCL (jobstepname. procstepname.ddname); names that are omitted must be indicated by including the period (for example, . . . SYSMSG). S= specifies the sequence number for identical ddnames.	
*I,U[,Q=WTR] [,REQ={? / ALL}]	Display the data set selection characteristics that are preventing writer scheduling for specified job name or number (?), or display summary information for each general type of output in the writer queue (ALL).	
[,CL={? / cls}]	Display SYSOUT classes in writer queue or status of data sets of specified SYSOUT class.	
[,D={? / dest}]	Display destination of jobs in writer queue or status of data sets for specified destination.	
[,F={? / form}]	Display form requirements for data sets in writer queue or status of data sets requiring specified form.	
[,H={? / Y / N}]	Display hold status of all data sets (?), or only data sets in hold status (Y), or only data sets not in hold status (N).	
[,ID={? / userid}]	Display TSO user IDs having data sets in writer queue or status of data sets for specified user ID.	
[,L={? / minline count}]	Display line counts for data sets in writer queue or set minimum line count of data sets to be displayed.	
[,P={? / prty}]	Display priority of data sets in writer queue or status of data sets of specified priority.	
[,T=device group]	Display status of data sets destined for, or originating from, specified device group.	
[,C={? / carr}]	Display carriage (FCB) requirements or status of data sets for specified carriage (FCB).	
[,GT={PRT / PUN / SYS}]	Specifies general type of data sets to display.	
[,ST={? / devtyp}]	Display specific device type requirements or status of data sets for specified device type.	
[,U={? / train}]	Display UCS ID (train) requirements or status of data sets for specified UCS ID.	

NOTE:

3. If Q= is not specified, WTR is assumed.

Command	Description	Type
***INQUIRY or *I (cont.)**		
[,CONS=con] [,N={10 | nnn | ALL}] [,J={? | jobname | jobno}]	Specifies console to receive response. If omitted, respond to requesting console. Display the specified number of lines of response. Display status of all (?) or specified jobs in the queue, giving job name and number and summary of output by job. Display the status with qualifications as specified by the following parameters.	Output service, IBM 3800 Printing Subsystem (Notes 2, 3)
*I,U[,Q=WTR] [,CH={(images[,images]...) | ? | image}] [,FL={flid | ? | NONE}] [,CM={cmid | (cmid,trc) | ? | NONE}] [,SS={C | S | ?}]	Display data sets with the images listed. Display image requirements of data sets. Display data sets requesting the specified image (any occurrence of image within the CHARS= parameter); if enclosed in parentheses, the request is for a precise match. Display data sets requesting specified forms-overlay name. Display forms-overlay requirements. Display data sets without forms-overlay requirements. Display data sets requesting specified copy modification module ID. Display data sets requiring specified copy modification module ID and reference character. Display copy modification module ID requirements. Display data sets without copy modification requirements. Display data sets requiring continuous stacker selection option. Display data sets requiring the bursting, trimming, stacker selection option. Display stacker select requirements.	
*I,X {,D={dspname | ALL} ,M={module name | ALL}}	Display use count status of specified or all JES3 DSPs. Display use count status of specified or all JES3 modules loaded by the ALOAD macro instruction.	DSP and module use counts
***MESSAGE or *Z**		
*Z {,con ,dest ,ALL} ,text	Send a message (text) to specified console. Send a message to specified console destination class. Send a message to all consoles except those with DEST=NONE.	
***MODIFY or *F**		
*F,E {,ON ,OFF ,START={PGMCHK | RESUME} ,STOP={PGMCHK | WAIT} ,EXCL={id | RESET} ,LIMIT=nn ,DUMP={id | ALL} ,DISPLAY ,TRAP={address | RESET} ,FIND=module name}	Enable event tracing. Disable event tracing. Reset STOP=WAIT and force a program interrupt. Trace facility is to post and return control to caller. Any time an entry in the exclusive ID queue is traced, the calling function is to be 0C6 abended. Any time an entry in the exclusive ID queue is traced, the calling FCT is to be awaited. Add specified trace ID to exclusive ID queue (maximum of 10). Reset exclusive ID queue and resume tracing of all entries. Specified number of entries that are to be dumped to operator console (00-99). If 00 is entered, 255 is used. Specified trace ID or all trace IDs are to be dumped to the operator console subject to LIMIT=. Trace control data area is to be dumped to the operator console. Set a dynamic trace (ID=1) at specified address. TRAP overlays 8 contiguous bytes from the address and destroys contents of registers 0, 1, 2, 14, and 15. Reset the active trap and restore overlaid instructions. Locate module entry point.	Event tracing

Command	Description	Type
***MODIFY or *F (cont.)**		
*F,G,main { ,G / ,GROUP } ,grp [{ ,ON / ,OFF } / ,INIT,nnn / ,ALLOC,opt / ,UNALLOC,opt / ,BAR,nn / ,JSPAN,nnn] / { ,S / ,SELECT } ,opt,val / { ,C / ,CLASS } ,cls { ,ON / ,OFF } / ,CHK	For the specified system: Enable or disable the named group for scheduling. Set named group initiator count to nnn. Set allocation option to specified option (DYNAMIC, MANUAL, or DEMAND – MVS processors only). Set deallocation option to specified option (DYNAMIC, MANUAL, or DEMAND – MVS processors only). Set group scheduling barrier to nn. Set group job span to nnn. Set current select mode option (MAGER, MAGEL, SAGER, SAGEL, DISPLAY, DPRTY, SDEPTH, SBAR, INCR, INCL, CHOICE, LSTOR, MODE, MAXI) to a specified value. (MAXI is valid only if maximum initiator value has been set due to an *START command failure). Enable the named class. Disable the named class. Checkpoint the current GMS status.	Generalized main scheduling
*F,J=(jobno[,jobno]...) { ,H / ,R / ,C / ,CP / ,P=prty }	Hold specified job. Release specified job. Cancel and purge specified job. Cancel specified job and process output data sets ready at command entry time. Change priority of the specified job to the specified priority (0–15).	JES3 jobs
*F,K=nn,N=ptable,M=<text> [{ ,E / ,D }]	Set PFK (K=nn) in the specified table to message text for immediate entry (E) or delayed (D) entry with cursor positioned at end of text.	Program function key
*F,L,T=typ [,PRTY= { +nn / nn } / ,LEAD= { nnH / nnnnM / hhmm } / ,PINC= { +nn / nn } / ,INT= { nnH / nnnnM / hhmm } / ,ALL]	For the specified deadline type: Increase priority by +nn when lead time occurs. Set priority to nn when lead time occurs. Specifies lead time prior to deadline time and date to have priority incremented (maximums are 24H, 1440M, 2400). Specifies additional priority changes after initial lead time elapses. Increment by +nn or set to nn. Interval at which PINC= is to be applied. Maximums are same as LEAD=. Apply changes to all jobs of specified deadline type in JES3 queue. If omitted, apply only to new jobs.	Deadline scheduling
*F,M,main,(cde[,cde]...) [,con / ,dest / ,J]	For specified processor and MCS code (1–16): Set JES3 console name to receive messages. Set JES3 destination class to receive messages. If con and dest are omitted, messages are sent to MLOG and/or DLOG. Messages to be processed entirely by JES3. If omitted, message is displayed by MCS and processed by JES3.	MCS route codes (Notes 4, 5)
*F,N,ID=netid[,J=(jobno[,jobno]...)] [,I / ,D / ,H / ,R / ,C / ,F]	For specified DJC network and specified job (all jobs if omitted): Increment NHOLD count by 1. Decrement NHOLD count by 1. Place in DJC operator hold. Release from DJC operator hold. Cancel from the system. Any output data sets created are processed. Jobs of specified DJC network-ID are purged of all DJC dependencies and placed in operator hold. The specified network ID is removed from the system.	DJC network

NOTES:
4. Parameters con, dest, and J are positional.
5. MLG is the destination class for master log (MLOG).

Command	Description	Type
***MODIFY or *F (cont.)**		
*F,O { { ,M= | ,D= } { ON | OFF } } { =con { ,A=auth | ,ADEST=destination | ,DDEST=destination | ,MAIN= { main | NONE } | ,PFK=tab | ,SP=tab } } { MAIN=main,R= { nn | (nn[,nn]...) } }	Turn MLOG on or off (MLOG cannot be disabled unless DLOG is active). Turn DLOG on or off (DLOG may not be disabled unless there is at least 1 hardcopy MLOG active). Set authority level for specified console (0–15). Add a destination class to specified console. Delete a destination class from specified console. Specify processor to which all commands not prefixed with * or 8 are sent. NONE indicates that JES3 is to process all entered commands. Specify new PFK table to be associated with this specified console. Specify new SP table to be associated with the specified console. Delete the specified outstanding operator-action requestor requests from the queue for the specified processor.	Consoles
*F,Q[,P=(prty,...)] { ,H | ,R }	For specified priority level (or all if P= omitted), hold or release the JES3 queue for scheduling.	Job queue
*F,S { { ,VU= | ,VA= } { T–vol[,vol]... | D–vol[,vol]... } | ,M= { ddd | devtyp | SDGxx } ,main,vol | ,U= { dev adr | devtyp | vol } ,main | ,J=jobno,V | ,AL= { A | M } | ,ALWIO=nn | ,MR=n }	Specifies that designated tape/disk volumes be made unavailable (VU) or available (VA). For specified system name and volume serial, mount on direct access device address ddd, type devtyp, or staging drive group xx. Unload the specified volume. The specified job number is to enter verify immediately even if mount messages have not been responded to. Set allocation mode to automatic. Set allocation mode to manual (requires operator to issue *START,S,jnn to FETCH messages). Set the current number of asynchronous I/O requests which can be processed at one time to nn. Minimum is 1 and the maximum is the value specified in the MAXIO parameter of the SETPARAM initialization statement. Set the MSVC virtual unit reserve count to n.	MDS setup
*F,T { ,T= { wsname | ALL } { ,AUTO= { Y | N } | ,H | ,R | ,B= { nn | ALL } | ,JOB= { R | C } | ,P=({ old password | NONE } , { new password | NONE }) } | ,L= { lname | ALL } { ,H | ,R | ,P= { password | NONE } | ,A | ,M | ,SNAPON | ,SNAPOFF | ,TRCEON | ,TRCEOFF } }	T= determines whether the command applies to a specific or all work stations. Enable the SNA RJP reader auto call function Disable the SNA RJP reader auto call function. Hold input from subsequently called readers. Reset the hold condition established by the H parameter. Do not release jobs currently held. Release all or the specified number of batches held via the H parameter. Specifies action to be taken if remote printer or punch becomes not ready; R–reschedule, C–remain active until made ready. The JOB= parameter is valid for BSC RJP only. Specifies a new password for the specified BSC RJP or SNA RJP work station or none. L= determines whether the command applies to all or BSC RJP specified lines. Hold input from subsequently called readers. Reset the hold condition established via the H parameter. Do not release jobs currently in hold; they must be individually released or released via *F,T=term,B=. Specify the line password or NONE which must be used on next BSC RJP sign-on. Automatically start BSC RJP lines when BSC RJP is reinitialized. BSC RJP lines require manual start when BSC RJP is reinitialized. Enable or disable SNAP facility. Enable or disable display of BSC RJP event trace on MLOG.	BSC RJP or SNA RJP work stations and BSC RJP lines

Command	Description	Type
***MODIFY or *F (cont.)**		
[,CONS=con] [,N={10 | nnn | ALL}] [,J={jobno | jobname}] ,DD=ddname[,S=nnn]	Specifies console to receive response. If omitted, requesting console is to receive responses. Specifies the number of requests to be processed; this represents jobs, data sets, or output scheduler elements, depending on other specifications. Specifies the job from the designated queue to be changed. Identifies specific ddname to be modified. If specified, the ddname must be qualified as it appears in the job's JCL (jobstepname.procstepname.ddname); names that are omitted must be indicated by including the period as a qualifier (for example, . . . JESMSG). J= must be used if DD= is coded. S= is used to identify sequence of identical ddnames.	Output service hold queue (Notes 6,7)
*F,U,Q=HOLD [,T=device group]	Modify data sets destined for designated device group.	
[,ID=userid]	Modify data sets of designated TSO user ID.	
[,D=dest]	Modify data sets destined for specified destination.	
[,ND=ndest]	Specifies a new destination.	
[,F=form]	Modify data sets with the designated form.	
[,NF=nform]	Change forms to specified form (nform).	
[,L=nnn]	Modify data sets with at least nnn lines.	
[,CL=class]	Modify data sets of specified SYSOUT class.	
[,NCL=nclass]	Change SYSOUT class to specified class (nclass).	
[,P=prty]	Modify data sets of specified priority.	
[,NP=nprty]	Change priority to specified priority (nprty).	
[,CP=nnn]	Modify data sets with designated copy counts.	
[,NCP=[{+ | - | * | &}] nnn]	Copy count is to be added, subtracted, multiplied, or divided by nnn, or set to nnn.	
[,CANCEL]	Cancel output as qualified by other keywords (job, data set, etc.)	
[,NQ=WTR]	Place data set selected on the basis of additional qualifying parameters on the writer queue.	
[,W=external writer name]	Modify output destined for designated external writer.	
[,NW=next writer name]	Output is to be destined for the new designated external writer.	
[,DSID=dsid]	Modify designated data sets for 3540 Diskette.	
[,NDSID=ndsid]	Change the data set ID to the new data set ID (3540 Diskette only).	

NOTES:

6. The *MODIFY,U command is presented in three different formats here: *F,U,Q=HOLD for jobs on the hold queue; *F,U,Q=WTR for jobs on the writer queue; and *F,U,Q=WTR with additional parameters only for the IBM 3800 Printing Subsystem. Parameters that may be used with either Q=HOLD or Q=WTR are repeated; the others may only be used as shown. For the IBM 3800 Printing Subsystem parameters, Q=HOLD must not be coded.
7. In the many variations of the *MODIFY,U command, parameters may be used together to qualify the requested change. If specific parameters must be used in combination, they are presented on the same line in the format. The Nxx parameters affect data sets selected on the basis of additional qualifying parameters.

Command	Description	Type
***MODIFY or *F (cont.)**		
,CONS=con	Specifies console to receive response. If omitted, requesting console is to receive responses.	Output service hold queue (Notes 6,7)
[,N= { 10 / nnn / ALL }]	Specifies the number of requests to be processed; this represents jobs, data sets, or output scheduler elements, depending on other specifications.	
[,J= { jobno / jobname }]	Specifies the job from the designated queue to be changed.	
*F,U[,Q=WTR [,DD=ddname[,S=nnn]	Identifies specific ddname to be modified. If specified, the ddname must be qualified as it appears in the job's JCL (jobstepname.procstepname.ddname); names that are omitted must be indicated by including the period as a qualifier (for example, . . . JESMSG). J= must be used if DD= is coded. S= is used to identify sequence of identical ddnames.	
,T=device group	Modify data sets destined for designated device group.	
,ID=userid	Modify data sets of designated user ID.	
,D=dest	Modify data sets destined for specified destination.	
,ND=ndest	Specifies new destination.	
,F=form	Modify data sets with designated forms.	
,NF=nform	Change forms to specified form (nform).	
,L=nnn	Modify data sets with at least nnn lines.	
,CL=class	Modify data sets of SYSOUT class.	
,P=prty	Modify data sets of specified priority.	
,NP=nprty	Change priority to specified priority (nprty).	
,NCP= [{ + | - | * | & }] nnn	Copy count is to be added, subtracted, multiplied, or divided by nnn, or set to nnn.	
,CANCEL	Cancel output as qualified by other parameters (job, data set, etc.).	
,GT= { PRT / PUN / SYS }	Modify data sets of specified general type.	
,ST=typ	Modify data sets of designated specific device type.	
,NST=ntyp	Change device type to specified type (ntyp).	
,C=carr	Modify data sets requiring designated carriage type (FCB).	
,NC=ncarr	Change carriage tape (FCB) name to specified carriage name (ncarr).	
,U=ucsid	Modify data sets requiring designated UCS (train).	
,NU=nucsid	Change UCS-ID (train) to specified train (nucsid).	
,H= { Y / N }	Modify data sets of designated hold status.	
,NH= { Y / N }	Change hold status as specified.	
,NET=AID]	Change hold queue type to indicate ASP-JES3 migration aid.	
[,CONS=con]	Specifies console to receive response. If omitted, requesting console is to receive responses.	Output service, writer queue, IBM 3800 Printing Subsystem (Note 6)
[,N= { 10 / nnn / ALL }]	Specifies the number of requests to be processed; this represents jobs, data sets, or output scheduler elements, depending on other specifications.	
[,J= { jobno / jobname }]	Specifies the job from the designated queue to be changed.	

Command	Description	Type
***MODIFY or *F (cont.)**		
*F,U,[Q=WTR] [,FL=flid] [,NFL={flid | NONE}] [,SS={C | S}] [,NSS={C | S}] [,CM={cmid | (cmid,trc)}] [,NCM={cmid | (cmid,trc) | NONE}] [,CH={image | (image1[,image2,image3,image4])}] [,NCH={image | (image1[,image2,image3,image4])}]	Modify data sets requesting specified FLASH ID. Change FLASH ID to specified ID (flid), or NONE indicating no FLASH requirement. Modify data sets requesting specified continuous (C) or bursting, trimming stacker select (S) option. Change stacker select option to continuous (C) or bursting, trimming stacker select (S) option. Modify data sets requesting specified copy modification or copy modification and reference character. Change copy modification requirement to specified value. Modify data sets with specified image requirements (any occurrence of image within the CHARS= parameter); if enclosed in parentheses the request is for a precise match. Image requirements are to be changed to specified value. This can only be specified if CH= was used as a selection specification.	
{*MODIFY | *I},V{(,(dev[,dev]...) | ,(dev adr[,dev adr]...) | ,(dev adr-dev adr) | ,cuX | ,main | ,ALL | ,lname | ,SDGxx | ,mssname){,ONLINE | ,ON | ,OFFLINE | ,OFF} | {,(con[,con]...) | ,(con adr[,con adr]...) | ,(con adr-con adr)}{,ONLINE | ,ON | ,OFFLINE | ,OFF | ,CONSOLE}}[{,main | ,ALL}]	Specify the availability or unavailability of JES3-managed units for use by JES3 support functions or specified processor. The control unit is specified as cuX (for example, 23X). Specification of CONSOLE enables specified device addresses as JES3 consoles. Specification of ALL as the last parameter can only be used when SDGxx or mssname is specified.	Vary function
*F,X {,D=dsp ,M={name | ALL} ,MC={nn | (,mm) | (nn,mm)} ,RC=count}	Specifies maximum number of copies of the designated DSP that may be active at one time (0-32767). When D=CI, the total of the subparameters must not exceed 99. When D=RI, only one number should be specified. Specifies the number of times the designated module is to be loaded by the ALOAD macro instruction before it is made resident (2-32767).	DSP and module usage
***RESTART or *R**		
*R {,dspname | ,dev | ,dev adr | ,main{,jobno | ,jobname} | ,J-jobno} [,message text or parms]	Restart a JES3 global support function or jobs on an ASP main processor (for details, see the JES3 Functions section).	
***RETURN**		
*RETURN[,password]	Terminate JES3 and return to MVS without a dump (password is required when command entered on a local processor).	
***SEND or *T**		
*T,main,console command	Send the designated MVS console command to the specified processor.	
***START or *S**		
*S {,dspname | ,dev | ,dev adr | J=jobno | ,main} [,message text or parms]	Start a JES3 global support function (for details, see the JES3 Functions section).	

Command	Description	Type
***SWITCH**		
*SWITCH, from console, to console	Reroute messages destined for from console to console. Messages so routed are prefixed with the symbol #.	
***VARY or *V**		
{*VARY / *V} { ,(dev[,dev]...) / ,(dev adr[,dev adr]...) / ,(dev adr-dev adr) / ,cuX / ,main / ,ALL / ,lname / ,SDGxx / ,mssname } { ,ONLINE / ,ON / ,OFFLINE / ,OFF } [{,main / ,ALL}] {*VARY / *V} { ,(con[,con]...) / ,(con adr[,con adr]...) / ,(con adr-con adr) } { ,ONLINE / ,ON / ,OFFLINE / ,OFF / ,CONSOLE } [{,main / ,ALL}]	Alter availability or unavailability of JES3-managed devices (same format and meanings as *F,V,...).	

JES3 FUNCTIONS

CC DSP: Card-to-Card

Function: The card-to-card (CC) DSP reproduces EBCDIC or binary cards and converts BCD cards to EBCDIC. In addition, it can reproduce with sequencing or gangpunching, make multiple copies of a card, and rearrange fields in output.

Command:	Description:
{*CALL / *X},CC [,IN={dev / dev adr / ([typ][,group])}]	Specifies input device by name, address, or type and/or group. If omitted RDR is assumed.
[,OUT{dev / dev adr / ([typ][,group])}]	Specifies output device by name, address or type and/or group. If omitted PUN is assumed.
[,NAV={C / R}]	Sets cancellation or rescheduling if devices are not available. The default is as assembled in IATYDSD.
[,TYPE={B / C / S}]	Specifies type of operation: B – binary reproduction C – conversion from BCD to EBCDIC S – sequencing, gangpunching, and/or field rearrangement.
[,SEQ=(start,increment)]	Each field must contain 8 numbers. The identifier is 1-8 characters.
[,GANG='identifier']	Specifies sequencing information.
[,COPIES={1 / nnn}]	Specifies identifier to be gang punched.
[,INT={YES / NO}]	Specifies number of cards to be punched per input card.
{*START / *S} { ,CC / ,dev / ,dev adr }	Specifies if punch is to be interpreted.
{*CANCEL / *C} { ,CC / ,dev / ,dev adr }	Start the card-to-card DSP.
	Cancel the card-to-card DSP.

CI, RI DSPs: Interpreter Service

Function: The converter/interpreter (CI) DSP for MVS and the reader/interpreter (RI) DSP for MVT/SVS provide JCL conversion and create OS control blocks.

Command:

{*MODIFY / *F} ,X,D={CI / RI} ,MC={nn / (,mm) / (nn,mm)}

Description:

Set the maximum concurrent subtask count for the RI or CI DSP (must be 01-99.)
When D=CI, the total of the subparameters must not exceed 99.
When D=RI, only one number should be specified.

CNT DSP: Console Test

Function: The console test (CNT) DSP tests mechanical functioning of JES3 consoles.

Command:

{*CALL / *X} ,CNT

Description:

Call the CNT DSP.

{*START / *S} ,CNT [,CONS={dev / dev adr / (dev[,dev] ...)} ,TEXT=test message ,REPEAT= nn]

If omitted, calling console is assumed.

May be 1-20 characters. If omitted, a standard test message is used.

The parameter nn can be 0-5.

{*CANCEL / *C} ,CNT

Cancel the CNT DSP.

CP DSP: Card-to-Printer

Function: The card-to-printer (CP) DSP lists EBCDIC cards, with single-spaced, double-spaced, or triple-spaced output.

Command:

{*CALL / *X} ,CP [,IN={dev / dev adr / ([typ] [,group])} ,OUT={dev / dev adr / ([type] [,group])} ,NAV={C / R} ,SPACE={1 / 2 / 3}]

Description:

Specifies input device by name, address, or type and/or group. If omitted RDR is assumed.

Specifies output device by name, address, or type and/or group. If omitted PRT is assumed.

Sets cancellation or rescheduling if devices are not available. The default is as assembled in IATYDSD.

Specifies spacing of printer.

{*START / *S} {,CP / ,dev / ,dev adr}

Start the CP DSP.

{*CANCEL / *C} {,CP / ,dev / ,dev adr}

Cancel the CP DSP.

CR, DR, TR DSPs: Input Service Readers

Function: The card reader (CR), disk reader (DR), and tape reader (TR) DSPs spool jobs from cards, tapes, and disk into the JES3 queue during the reader phase of input service.

Command:

$$\left\{\begin{matrix}\text{*CALL}\\ \text{*X}\end{matrix}\right\}\left\{\begin{matrix},\text{CR}\\ ,\text{DR}\\ ,\text{TR}\end{matrix}\right\}$$

$$\left[\begin{matrix}
,\text{IN}=\left\{\begin{matrix}\text{dev}\\ \text{dev adr}\\ (\text{[typ]}\,\text{[,grp]})\end{matrix}\right\}\\
,\text{M=mem[,IN=(,grp)]}\\
,\text{B}=\left\{\begin{matrix}\underline{10}\\ \text{nnn}\end{matrix}\right\}\\
,\text{C}\\
,\text{DEN}=\left\{\begin{matrix}2\\ 5\\ 8\\ \underline{16}\\ 62\end{matrix}\right\}\\
,\text{END}=\left\{\begin{matrix}\underline{\text{RW}}\\ \text{RU}\\ \text{NO}\end{matrix}\right\}\\
\left\{\begin{matrix},\text{H}\\ ,\underline{\text{HN}}\end{matrix}\right\}\\
,\text{J=jobname}\\
,\text{JOBS}=\left\{\begin{matrix}\text{nnn}\\ \underline{\text{ALL}}\end{matrix}\right\}\\
\left\{\begin{matrix},\text{K}\\ ,\underline{\text{KN}}\end{matrix}\right\}\\
,\text{L}\\
,\text{NAV}=\left\{\begin{matrix}\underline{\text{R}}\\ \text{C}\end{matrix}\right\}\\
,\text{P}=\left\{\begin{matrix}15\\ \text{nn}\end{matrix}\right\}\\
,\text{TBLK}=\left\{\begin{matrix}\underline{1}\\ \text{nn}\end{matrix}\right\}\\
,\text{TM= nn}\\
,\text{PARMID}=\left\{\begin{matrix}\underline{01}\\ \text{xx}\end{matrix}\right\}
\end{matrix}\right]$$

Description:

Specifies device for CR or TR.

Specifies input for DR. IN= sets origin group.

Specifies number of jobs in batch (1-255).

Enables card image. This must be specified if cards to be read are in card-image format (column binary or data mode 2). Valid only for CR.

Specifies TR input density:
2–200 bpi (7-track)
5–556 bpi (7-track)
8–800 bpi (7- or 9-track)
16–1600 bpi (9-track)
62–6250 bpi (9-track)

Specifies TR end-of-file action: rewind, rewind unload, or leave.

Specifies control-card processor job is to be placed in hold status (H) or allowed to process (HN) after the batch has been created.

For TR and DR, specifies job with which job input is to begin.

Specifies number of jobs (1 to 254) to be read from the input device and placed onto the spool devices (TR and DR).

Specifies whether the reader is to be kept active (K) at end-of-file or is to purge (KN).

For TR, specifies tape is labeled.

For CR and TR, specifies whether unavailability of the input device results in holding the reader function in the system pending availability (R) or cancellation of the reader function (C).

Specifies priority to be assigned to control-card processor job (0 to 15, 15 is the default).

For TR, specifies blocking factor at which card images are on tape (maximum is 40).

For TR, specifies number of files the tape is to be spaced forward before reading begins (0-127; the default is 0).

Specifies set of reader or converter parameters to be used.

CR, DR, TR DSPs: Input Service (cont.)

Command:

{*START / *S} {,CR / ,DR / ,TR / ,dev / ,dev adr / ,J=jobno} [	
,M=mem	Specifies name of partitioned data set member (DR only).
,B={10 / nn}	Number of jobs in batch (1-255).
,END={RW / RU / NO}	TR end-of-file action: rewind, rewind unload, or leave.
{,H / ,HN}	Control-card processor job is to be placed in hold status (H) or allowed to process (HN) after the batch has been created.
,J=jobname	Name of the job with which job input is to begin (for TR or DR).
,JOBS={nn / ALL}	Number of jobs to be read from the input device (1-254) and placed onto the spool devices (TR and DR).
{,K / ,KN}	Specifies whether reader is to be kept active (K) at end of file or is to purge (KN).
,P=nn	Priority assigned to control-card processor job (0-15).
,TM=nn]	Number of files the tape is to be spaced forward (0-127) before reading begins (TR only).
PARMID={01 / xx}	Specifies set of reader or converter parameters to be used.
{*CANCEL / *C} {,CR / ,DR / ,TR / ,dev / ,dev adr / ,J=jobno} [	
{,H / ,HN}	Interpreter DSP created with the *CANCEL command to be placed in operator hold (H) or allowed to process those jobs already entered (HN).
{,K / ,KN}	The *CANCEL command for a hot reader terminates reader function (KN) or allows reader to remain allocated (K).
,P=nn]	Priority of interpreter DSP (0-15).

CT DSP: Card-to-Tape

Function: The card-to-tape (CT) DSP stores card files on reels of unlabeled tape. The tapes may be 7- or 9-track, with a selection of density and recording modes, and may be single or multiple file, unblocked or blocked.

Command:

{*CALL / *X},CT [	
IN={dev / dev adr / ([typ] [,group])}	Specifies input device by name, address, or type and/or group. If omitted RDR is assumed.
OUT={dev / dev adr / ([typ] [,group])}	Specifies output device by name, address, or type and/or group. If omitted TA9 is assumed.
,NAV={C / R}	Sets cancellation or rescheduling if devices are not available. The default is assembled in IATYDSD.
,BLOCK={0 / nn}	Specifies blocking factor (0-99)
,TM= nn	Specifies tape marks to be passed from the load point. Omission causes no repositioning (0-99).
,DEN={2 / 5 / 8 / 16 / 62}	Specifies tape density: 2–200 bpi (7-track) 5–556 bpi (7-track) 8–800 bpi (7- or 9-track) 16–1600 bpi (9-track) 62–6250 bpi (9-track)
,MD={C / T / ET}]	Specifies recording mode for 7-track tape: C – odd parity, converter on, translator off T – odd parity, converter off, translator on ET – even parity, converter off, translator on
{*START / *S} {,CT / ,dev / ,dev adr}	Start the CT DSP.
{*CANCEL / *C} {,CT / ,dev / ,dev adr}	Cancel the CT DSP.

DC DSP: Dump Core

Function: The dump core (DC) DSP permits inspection and modification of data in main storage; intercepts program flow during execution at desired locations; and permits formatting of control blocks.

Command:	Description:
{*CALL | *X},DC [,OUT={dev | dev adr | ([typ] [,group]) | CON}]	Specifies output device by name, address, or type and/or group to receive the output from the OPTION= or PTRAP parameters on the *S,DC command. All other output is directed to calling console. If OUT= is not specified, any available local printer is selected. Specifies calling console.
[,KEY=password]	Specifies password for setting traps and displaying and altering storage.
{*START | *S},DC [,FIND=module name [,SEQ=nn]	Locates entry point address and base of named module. Identifies one of a series of identically named modules.
,C=address [,B={nn | 20} ,BASE=address]	Specifies starting address of data from storage to be displayed, or displacement to add to BASE. Specifies hexadecimal number of bytes to display. Specifies base address of area to display.
,C=address [,S=nnn ,BASE=address]	Specifies address of data to be stored, or displacement to add to BASE. Specifies 2-16 hexadecimal characters to be stored. Specifies base address of area to be altered.
,TRAP=adr,START={adr,END=adr | Rz,B=length | *} [,BASE=address]	Stop at address of instruction specified in TRAP= and begin dump at area specified by adr. END= specifies the ending address of area to be dumped. Stop at address of instruction specified in TRAP= and begin dump at area pointed to by register Rz. B= specifies length of field to be dumped. Stop at address of instruction specified in TRAP=. No dump is taken. **Note**: Only four START=* may be active at one time. Causes TRAP=address, starting-address, and END= address to be displacements to add to BASE. If START=* is specified, BASE= causes only TRAP= to be added to BASE.
,TREGS	Displays registers at a trap.
{,REGSON | ,REGSOFF}	Activates or deactivates the display and recording of registers at a trap.
,{TRAPON | TRAPOFF}	Activates or deactivates waiting or taking snapshots at a trap.
,PTRAP	Prints snapshot output from traps.
{,ACTIVE | ,PATCH}	Displays all active traps or patch area.
,TRAPGO	Resumes execution after a wait at a trap.
,OPTION={(nam, [,nam] . . .) | DMP | SNP} [,J={jobno | ALL}]]	Display the named JES3 control blocks. See *OS/VS2 System Programming Library: JES3 Debugging Guide* for valid control blocks to display. Specifies a JES3 dump with all standard formatting. Specifies a dump with job-related control blocks recorded.
{*RESTART | *R},DC	Resets all traps.
{*CANCEL | *C},DC	Resets all traps and terminates the DC DSP.

DEADLINE DSP: Deadline Scheduling

Function: The DEADLINE DSP allows the operator to control a job's scheduling priority to increase the probability of the job being completed by a given deadline.

Command:	Description:
{ *CALL / *X } ,DEADLINE	Invokes the DEADLINE DSP.
*INQUIRY	See *INQUIRY command in "JES3 Operator Commands" earlier.
*MODIFY	See *MODIFY command in "JES3 Operator Commands" earlier.
{ *START / *S } ,DEADLINE	Reinitialize the DEADLINE DSP.
{ *CANCEL / *C } ,DEADLINE [{ ,PURGE / ,J }]	Terminates the DEADLINE DSP until the next deadline scheduling job is read into system. With PURGE specified, the DEADLINE DSP can be resumed only by a cold start. With J specified, deadline scheduling stops, but the queue is still maintained.

DISPDJC DSP: Display Dependent Job Control Tables

Function: The display dependent job control tables (DISPDJC) DSP reports the status of a dependent job network.

Note: *Output is an internal JES3 spinoff output data set. It is assigned job 0 (i.e., J=0 on an *I,U command).*

Command:	Description:
{ *CALL / *X } ,DISPDJC [,OUT= { dev adr / (type[,group]) / ([type],group) }]	Specifies printer to receive the display. If omitted, PRT is assumed, and JES3 will allocate the first available device initialized as a PRT type. Type specifies the type of device to receive the output. PRT specifies any printer. Group specifies the group of devices to which the device has been assigned. Usually a physical location such as FLOOR1 or LOCAL.
[,NET= { net id / ALL }]	Specifies network to display.
{ *CANCEL / *C } ,DISPDJC	Cancel the DISPDJC DSP.

DISPLAY DSP

Function: The DISPLAY DSP displays JES3 system tables.

Note: *Output is an internal JES3 spinoff output data set. It is assigned job 0 (i.e., J=0 on an *I output command).*

Command:	Description
{ *CALL / *X } ,DISPLAY [,OUT= { dev / dev adr / (type[,group]) / ([type],group) }]	Specifies output device by name, address, or type and/or group. If omitted PRT is assumed.
[,J= { jobname / jobno }]	If J= coded, only specific job is displayed and output is returned to calling console.
[,P=prty]	Specifies to display jobs of the given priority.
{ *CANCEL / *C } ,DISPLAY	Cancel the DISPLAY DSP.

DJ DSP: Dump Job

Function: The dump job (DJ) DSP removes jobs from the JES3 job queue and writes them to tape; it also reads jobs back into queue from tape.

Command:	Description:
{IN | OUT} = {dev | dev adr | (type[,group]) | ([type],group)}	Specifies input or output device by name, address, or type and/or group. If omitted, TA9 is assumed.
{*CALL | *X},DJ [,NAV={C | R}	Specifies action to be taken if device type requested is not available: C–cancel, R–reschedule until device becomes available. The default is assembled in IATYDSD.
,PASS=password	If DJ has been password-protected by the installation, this is required. The password is assembled into IATDJDT by IATYDJB.
,OLD	Inhibits the initial rewind which normally precedes DJ processing. This makes it possible in OUT mode to recall DJ and add more jobs to the end of an existing DJ tape and In IN mode to begin the job scan from the current tape position.
,DEN=nn	DEN= Specifies the tape density: 2 – 200 bpi (7-track) 5 – 556 bpi (7-track) 8 – 800 bpi (7- or 9-track) (default for 7-track) 16 – 1600 bpi (9-track) (default for 9-track) 62 – 6250 bpi (9-track) 800 bpi is the default for 7-track tape; 1600 bpi is the default for 9-track tape.
,NT= {YES | <u>NO</u>}]	Specifies whether the actual tape I/O is to be bypassed, and a trace of the CCWs is made.
{*CANCEL | *C},DJ	

OUT Mode:

Command	Description
{*START | *S},DJ {,J=jobno	Specifies job to be processed.
,P=prty	Specifies priority level to be processed.
,N=network id	Specifies DJC network to be processed.
,Q}	Specifies entire JES3 queue to be processed except jobs currently active.
[,DISP= {<u>PURGE</u> | SAVE | HOLD}]	Specifies whether job is to be purged, left in its current state, or placed in hold after DJ processing.
[,CB= {YES | NO}]	Specifies whether the control block trace is to be made as the control block is being dumped.

IN Mode:

Command	Description
{*START | *S},DJ {,ALL	Specifies that all jobs are returned to the job queue.
,J=jobname	Specifies job to be retrieved.
,P=prty	Specifies priority level to be processed.
,N=network id	Specifies DJC network to be processed.
,Q}	Specifies entire JES3 queue to be processed except jobs currently active.
[,DISP=HOLD	Specifies job is to be placed in hold after DJ processing.
,OLD]	Specifies that the tape is not to be rewound before DJ processing begins.

DJC DSP: Dependent Job Control

Function: The dependent job control (DJC) DSP manages jobs that are dependent upon one another; that is, job B (as a successor job) cannot run until job A has completed, and job B (as a predecessor job) must be completed before job C is run.

Commands: See the *INQUIRY and *MODIFY commands in "JES3 Operator Commands" earlier.

DSI DSP: Dynamic System Interchange

Function: DSI is the JES3 facility that allows a properly configured JES3 local processor to assume the role of the JES3 global processor in the event of a catastrophic error on the current global or if complex reconfiguration is required to prepare for scheduled preventive maintenance. The installation should provide comprehensive procedures for device switching and operator action during DSI. These should be carefully reviewed before and during DSI. Operator messages are provided to guide the operator through DSI; the operator responds with the *S,DSI command.

Command:	Description:
{*CALL / *X},DSI	This command is issued from the MCS master console on the local processor which is to assume the global function.
{*CANCEL / *C},DSI	Issued in response to messages IAT0920, IAT0915, IAT0910, or IAT0900 if DSI is to be terminated.
{*START / *S},DSI	To be issued after performing the actions indicated in messages IAT0920, IAT0915, IAT9010, IAT0900 and IAT0905.

Messages:

IAT0920	DSI–CHECK GLOBAL DSI PROCEDURE	Review global DSI procedure and be prepared to accomplish required tasks when requested. Enter *S,DSI to continue.
IAT0915	DSI–REVIEW LOCAL DSI PROCEDURE	Review local DSI procedures and be prepared to accomplish requested tasks when instructed. Enter *S,DSI to continue.
IAT0910	DSI–DISABLE OLD GLOBAL PROCESSOR	Press SYSTEM RESET or enter *X,DSI on the old global processor. When completed (JES3 no longer active on old global), enter *S,DSI. *Caution: It is extremely important that JES3 be terminated on the old global processor. Failure to do so may destroy JES3 spool integrity.*
IAT0900	DSI–SWITCH GLOBAL DEVICES	Set switching devices to enable channel paths to global processor devices (console, unit-record, TP, etc.) and local processors as required. When completed, enter *S,DSI.
IAT0905	DSI–STARTED	Wait for JES3 hot start of new global processor to complete, then resume normal JES3 operations. JES3 may be initialized on the old global processor when it becomes available in local mode without an intervening MVS IPL.

FAILSOFT DSP

Function: JES3 failsoft is the component of the system which attempts to recover from program failures in JES3. The operator is involved if WANTDUMP=ASK is specified on the OPTIONS statement.

Command:	Description:
*FAIL	See the *FAIL command, in "JES3 Operator Commands" earlier, for operator-initiated failure of a DSP.

Message:

*nn IAT3714	SPECIFY NO–NODUMP,J–JES3 CONTROL BLOCKS,U–JES3 DEFAULT	If WANTDUMP=ASK is specified on the OPTIONS statement, an OS WTOR is issued to the active MCS console on the JES3 processor (global or local). The JES3 default is specified via DUMP= on the OPTIONS statement. The JES3 task is in the O/S WAIT state until the operator responds to IAT3714. JES3 remains nondispatchable until the indicated dump type has been taken.

IC DSP: Iteration Count

Function: The iteration count (IC) DSP accumulates iteration counts of JES3 functions which are driven through entry points between labels TVTEPS and TVTEPE in the transfer vector table (TVT). If a specific entry point is requested, detailed information on calling modules and offsets is provided.

Command:	Description:
{*CALL / *X},IC[,EP=entry point]	Activates the IC DSP.
{*START / *S},IC	Dumps the accumulated counts to the calling console.
{*CANCEL / *C},IC	Dumps the accumulated counts to the calling console and terminates the IC DSP.

IJP DSP: Internal Job Processing

Function: The internal job processing (IJP) DSP provides a generalized interface to allow other jobs to interface to JES3 during program execution on ASP main processors.

Command:	Description:
{ *CALL / *X } ,IJP[,IN=main][,H]	H specifies that all transmitted jobs are to be placed in hold status.
{ *START / *S } ,log { ,H / ,R }	Sets or resets placement of jobs in hold status.
{ *CANCEL / *C } { ,log / ,IJP }	The login name is provided in the sign-on message. *C,IJP is valid only when there is only one IJP DSP active.

INTRDR DSP: Internal Reader

Function: The internal reader (INTRDR) DSP passes JES3 output data sets to JES3 input service for processing as an input job stream.

Command:	Description:
{ *CALL / *X } ,INTRDR	Starts the internal reader DSP for processing jobs in the output writer hold queue.
{ *CANCEL / *C } ,INTRDR	Terminates the INTRDR DSP.

JESAID, ASPAID: ASP-JES3 Migration Aid

Function: The ASP-JES3 migration aid provides the facility to transmit jobs from an ASP support processor to a JES3 global processor, maintain the jobs on the ASP queue in case of a failure on the JES3 system, and receive and process output data sets from the job's execution on JES3. The migration aid also provides the JES3 queue dump facility. This facility allows the user to transmit, from the JES3 system to an ASP system, (a) SYSOUT data generated by jobs which did not originate on the ASP system and (b) the input queues. The callable DSPs, JESAID and ASPAID, operate in JES3 global and ASP support processors, respectively. Operator commands for ASPAID are entered on ASP and for JESAID are entered on JES3.

JESAID Command:	Description:
*X,INTRDR	Prior to calling JESAID, an internal reader must be active. If one is not, enter *X,INTRDR
{ *CALL / *X } ,JESAID [,CTC=adr]	Specifies address of the CTC to be used by JESAID to communicate with the ASP main processor. (This may be omitted if specified on the *S,JESAID command.
[,RDR= { STOP / (START,reader name) }]	Stops or starts the JESAID reader function. The reader name is the name defined on the DEVICE statement for the JESAID reader.
[,WTR= { HOLD / STOP[,alt dest] / START[,alt dest] }]	HOLD causes the JESAID writer to terminate on completion of active data set. Other output remains queued to the JESAID writer. Stops the JESAID writer. SYSOUT data sets queued for the writer will be redirected to alternate destination or deleted if no alt-dest is specified. Specifies alternate destination when SYSOUT data sets cannot be transmitted to ASP or if the writer is stopped. Starts the JESAID writer.
[,DUMP=ALL]	Activates the JES3 queue dump. **Note:** *When DUMP=ALL is specified, none of the other parameters can be used.*
[,STATUS]	Specifying STATUS results in message IAT1930, indicating status of JESAID functions. **Note:** *This may be used in combination with other parameters but only as the last parameter.*
[,HOOK]	Halt I/O on CTC and display most recent 16 commands from ASP over the CTC to JESAID.
[,LOOK]	Display most recent 16 commands from ASP sent over the CTC to JESAID.

JESAID, ASPAID: ASP-JES3 Migration Aid (cont.)

{*CANCEL / *C} ,JESAID	Causes JESAID to terminate and notify ASPAID of its termination.
{*RESTART / *R} ,JESAID	Reinitializes JESAID functions after an ASP or ASPAID restart. This should be used only when requested by ASPAID.
{*START / *S} ,JESAID	All parameters on *CALL command are valid.
{*MODIFY / *F} ,U,NGT=AID	Causes modification of the SYSOUT data queue. No other parameters are needed; if given, they are ignored.

ASPAID Command:	Description:
	Initializes ASPAID and causes input service to begin selection of jobs to be transmitted to JES3 based on criteria specified in this command.
{*CALL / *X} ,ASPAID [,CTC=adr	Specifies the address of the CTC for communications with JES3. If CTC= is omitted, then jobs matching the selection parameters or requesting migration are queued for ASPAID processing.
,NAME={nam / JES3}	Specifies the name (1–8 characters) used to identify the JES3 system for communications.
,CLASS={(cls[,cls]...) / /(cls[,cls]...)}	Specifies the job classes to be eligible for transmission.
,GROUP={(grp[,grp]...) / /(grp[,grp]...)}	Specifies the job class groups to be eligible for transmission.
{,ORIGIN / ,ORG} =(origin[,origin]...)	Specifies the origin of jobs to be selected for transmission to JES3.
{,NORMAL / ,N} = {A / O / C}	Specifies the action to be taken if the job completes normally on JES3. Run the job in the ASP complex (if specified for DJC, jobs will default to 0). Schedule only the output DSPs and PURGE DSP. Schedule only for PURGE DSP processing in the ASP complex.
{,JOBFAIL / ,J} = {A / O / C}	Specifies the action to be taken if the job fails on JES3. Run the job in the ASP complex (if specified for DJC, jobs will default to 0). Schedule only the output DSPs and PURGE DSP. Schedule only for PURGE DSP processing in the ASP complex.
{,SYSFAIL / ,S} = {R / A / O / C}	Specifies action to be taken if JES3 fails or if ASPAID is terminated. Reschedule the job (valid only for the SYSFAIL= parameter). Run the job in the ASP complex (if specified for DJC, jobs will default to 0). Schedule only the output DSPs and PURGE DSP. Schedule only for PURGE DSP processing in the ASP complex.
{,DISPLAY / ,D} = {CLASS / ORIGIN / ORG}]	Displays classes or origins currently being used for job selection.
{*START / *S} ,ASPAID	All parameters on *CALL are valid. CTC= and NAME= cause no specific action, but update control blocks.
{*RESTART / *R} ,ASPAID	Reinitializes CTC communications with JES3. All transmitted jobs are processed according to their SYSFAIL option. This command should be issued after a JES3 failure requiring that the communications be reinstated. The operator is prompted to start or restart JESAID.
{*CANCEL / *C} ,ASPAID	Terminates ASPAID functions. JESAID is notified of ASPAID termination. Jobs transmitted to JES3 are processed according to their SYSFAIL option. Jobs requesting R (rescheduling on JES3) are processed according to their JOBFAIL option.

JESNEWS DSP

Function: The JESNEWS DSP creates, replaces, or deletes the JESNEWS data set to be printed at the specified location type with each output job. JESNEWS creates and maintains 3 data sets (local, RJP, TSO) that can broadcast general information to JES3 users.

Command:	Description:
{ *CALL / *X } ,JESNEWS ,DS={ LCL / RJP / TSO }	Specify the output location for the JESNEWS data set: LCL–local printers, RJP–remote printers, TSO–TSO users.
{ *CALL / *X } ,JESNEWS ,TYPE={ ADD / REP / DEL }	Specify function to be performed on the specified data set. **Note:** *Both DS= and TYPE= must be specified. There are no defaults.*
{ *CANCEL / *C } ,JESNEWS	Terminates the JESNEWS DSP and no action is performed with the current JESNEWS data set.
{ *RESTART / *R } ,JESNEWS	Queues the data set being affected as a result of the *X,JESNEWS command.
{ *START / *S } ,JESNEWS,text	Places a line of data in the JESNEWS data set being affected as a result of the *X,JESNEWS command; text is 1-64 characters, free form.

MAIN DSP: Main Service

Function: During main service, operator action may be required for an IPL of processors, analysis of unusual messages, intervention when limits are exceeded, modification of SELECT statement parameters, and intervention when abnormal operating conditions are observed. Use the following commands, as appropriate.

Command:	Description:
{ *START / *S } ,main { ,FMT={ YES / NO } }	Specifies formatting of OS job queue data set. Valid for ASP processors only. If FMT=YES is specified, all jobs in the queue must be resubmitted.
{ *START / *S } ,main { ,IPL }	Begins manual IPL procedure, (ASP main processors only).
{ *START / *S } ,main { ,ENDIPL }	Ends manual IPL procedure (ASP main processor only).
{ *START / *S } ,main { ,FLUSH }	Removes jobs in execution from a JES3 local or ASP main processor.
{ *START / *S } ,main { ,CONNECT }	Establishes connection from local to global processor.
{ *START / *S } ,main { ,R=message }	Simulates messages received from ASP main processor only.
{ *START / *S } ,main [,MANUAL={ ON / OFF }]	Specifies either manual or automatic IPL for ASP main processors.
{ *CANCEL / *C } ,main { ,jobname / ,jobno } [{ ,DUMP / ,D }]	Cancels and optionally provides a dump of specified job on named processor.
{ *RESTART / *R } ,main { ,jobname / ,jobno }	Restarts a job already in execution on the specified processor.

MT: MAINTASK Function of ASP Main Processors

Function: MAINTASK, residing and operating in each ASP main processor, incorporates ASP/OS modifications and provides subtasks that enable ASP to take advantage of OS facilities.

Command prefix: [{*SEND | *T} ,main] {,MODIFY | ,F} MT, followed by one of the operands below:

Command:	Description:
{,S | ,P} = {A | B | C | D | E}	Starts or stops subtask: A Command processor and reader/interpreter modules B Dynamic dispatching priorities C Channel-to-channel monitoring D TSO modules E AOUTPUT writer
,ADSGEN {,START | ,STOP}	Starts or stops subtask creating interface to send ASP output to main.
,ASUBMIT {,START | ,STOP}	Starts or stops subtask creating interface to receive jobs from TSO terminal user.
,AOUTPUT {,START | ,STOP | ,DSP= {PRINT | P | PUNCH | PY | INPUT | IN} ,CLASS=n}	Starts or stops subtask allowing output data sets to be built on main OS output queue before being sent over CTC. AOUTPUT may specifically be sent to DSP's print service and/or punch service or limited to a specific OS job class.
,SIZE	Displays size of available ASP main processor storage.
,VER,dev adr,VOL= {SL | NL | BL} ,vol	VER parameter of *MODIFY command is used to determine the serial number of the mounted volume. SL standard label, NL= nonstandard label, BL bypass label processing.
,ISO {,dev adr | ,ALL} {,RESET | ,SET}	Alters entries in unit isolation table. RESET makes setup devices available to OS allocation; SET makes setup devices unavailable to OS allocation.
,LOCATE,dsn[,vol]	Searches catalog for location of specific data set. If volume serial number is omitted, system catalog is assumed; vol specifies volume on which desired catalog resides.
,FENCE {,nnnK | ,RESET | ,LIST} [,T=task name] [,job class] [,ONEKEY]	Alters storage boundaries for a specific OS job class or task by creating a new entry of size nnnnK or resetting (releasing) a fence, or lists status of all fences and available storage areas. ONEKEY specifies that all jobs in the created fence will have one protect key.
,ALTH	Displays OS logical track headers still available in the OS job queue.
,SNAP	Specifies a dump of MAINTASK region.
,HOTMAIN	Specifies an independent processor to be an online real ASP main processor.
{*SEND | *T} ,main,STOP MT	Terminates MAINTASK on ASP main processor.

MDS: Main Device Scheduler

Function: The following operator commands are available to allow a job to proceed to the mount stage under manual allocation, to return a job to a point following volume fetch, to alter the normal environment in which MDS is operating, and to remove a job from the JES3 system that is currently being processed by MDS.

Command:	Description:
{ *START / *S } { ,SETUP / ,S } (,jobname[,jobname]...)	Allows the named job to proceed to the allocate phase.
{ *RESTART / *R } { ,SETUP / ,S } (,jobno[,jobno]...),E	Returns the named job to a point following volume fetch. E specified extended information at time of next MDS setup attempt.
{ *CANCEL / *C } { ,SETUP / ,S } (,jobno[,jobno]...)	Removes a job currently being processed by MDS from the system. To modify MDS see the *MODIFY command in "JES3 Operator Commands" earlier.

NJP DSP: Network Job Processing

Function: The network job processing (NJP) DSP handles communications among JES3 systems at different locations.

Command:	Description:
{ *CALL / *X } ,NJP	
{ *START / *S } ,NJP,OPEN,LINES=(lname[,lname]...)	
{ *START / *S } ,NJP,SEND ,DEST=term ,EXEC=(scheduler element [,scheduler element]...)	Names of the scheduler elements to be executed at the remote site.
{ ,J=jobno / ,N=nnn / ,ALL } [,P=prty, ,NJPCLASS=cls]	The job, number of jobs, class of jobs, or priority level of jobs to be scheduled for NJP.
{ *START / *S } ,NJP,RESET,DEST=term { ,J=jobno / ,N=nnn / ,ALL } [,P=prty, ,NJPCLASS=cls]	See preceding description.
{ *START / *S } ,NJP,Q,DEST=term [,CONSOLE=con]	Specifies console upon which status information is to be displayed. If omitted, console issuing request is used.
[,FROM=term]	Limits status information to jobs from cited location.
[,TO=term]	Limits status information to jobs sent to cited location.
[,P=nn]	Limits status information to jobs at specified priority level.
[,NJPCLASS=cls]	Limits status to specified class.
{ *CANCEL / *C } { ,NJP / ,lname }	Cancels specific line name or terminates operator communications with NJP while NJP jobs are being scheduled.

RJP DSPs: BSC RJP and SNA RJP

BSC RJP DSP

Function: The binary synchronous communications remote job processing (BSC RJP) DSP handles communications between JES3 and remotely located BSC RJP work stations.

Command:	Description
{ *CALL / *X } ,RJP	Activate the BSC RJP DSP.
{ *START / *S } ,RJP,L=lname	Start the specified BSC RJP line.
{ *CANCEL / *C } ,RJP,L= { lname / ALL } [,I]	Cancel all current activity on the specified line. ALL specifies termination of all lines and the BSC RJP DSP. I specifies immediate termination.
{ *RESTART / *R } ,RJP,L=lname[,I]	Terminate the specified line and then start it again. I specifies immediate termination.

RJP DSPs: BSC RJP and SNA RJP (cont'd)

SNA RJP DSP

Function: The systems network architecture remote job processing (SNARJP) DSP handles communications between JES3 and remotely located SNA RJP work stations.

Command:	Description
{*CALL / *X} ,SNARJP	Activate the SNA RJP DSP.
{*START / *S} ,SNARJP,T=wsname [, {TRACEON / TRACEOFF / TRACEOFF,NOPRT}]	Start the specified SNA RJP workstation, and optionally, start the SNA trace facility.
{*CANCEL / *C} {,SNARJP [.T={wsname / ALL}] [,I] / ,(dev[,dev]...) [,J]}	Halt the SNA RJP network or the specified or all work stations. I specifies immediate termination. Halt the specified SNA RJP device. J specifies to cancel all data sets for the specified device.
{*RESTART / *R} ,SNARJP,T=wsname[,I]	Terminate the specified work station and then start it again. I specifies immediate termination.

RJPSNPS DSP: RJP Snapshot Dumps

Function: The RJP snapshot dump (RJPSNPS) DSP provides the capability to create snapshot dumps of the line device control table (DCT), current input/output block (IOB), and transmission data areas at channel end. This is primarily a diagnostic aid.
Note: *Output is an internal JES3 spinoff output data set. The data set is queued off job 0 (J=0 on an output service *I command).*

Command:	Description:
{*CALL / *X} ,RJPSNPS,CLASS={cls / DEBUG CLASS}	Activates RJPSNPS and creates the data set into which snapshot output is placed.
{*MODIFY / *F} ,T,L={lname / ALL} ,SNAPON	Activates RJPSNPS for a line or all lines.
{*RESTART / *R} ,RJPSNPS,CLASS={cls / DEBUG CLASS}	Cancels recording of snapshot information and starts it again.
{*START / *S} ,RJPSNPS,CLASS={cls / DEBUG CLASS}	Resumes recording of snapshot information.
{*CANCEL / *C} ,RJPSNPS,CLASS={cls / DEBUG CLASS}	Terminates RJPSNPS. (Use after desired events have been recorded.)
{*MODIFY / *F} ,T,L={lname / ALL} ,SNAPOFF	Terminate RJPSNPS for a line or all lines.

TC DSP: Tape-to-Card

Function: The tape-to-card (TC) DSP punches tape files into cards from 7- or 9-track tapes. No volume switching is performed on what are assumed to be unlabeled tapes.

Command:

{*CALL / *X} ,TC [

,IN={dev / dev adr / (typ[,group]) / ([typ],group)}

,OUT={dev / dev adr / (typ[,group]) / ([typ],group)}

,NAV={C / R}

,BLOCK=nn

,TM=nn

,DEN={2 / 5 / 8 / 16 / 62}

,MD={C / T / ET}

,INT={YES / NO}

]

Description:

Specifies input device by name, address, or type and/or group. If omitted TA9 is assumed.

Specifies output device by name, address or type and/or group. If omitted PUN is assumed.

Sets cancellation or rescheduling if devices are not available. The default is as assembled in IATYDSD.

Specifies tape marks to be passed from load point (0-99). Omission causes no repositioning.

Specifies tape density:

2–200 bpi (7-track)
5–556 bpi (7-track)
8–800 bpi (7- or 9-track)
16–1600 bpi (9-track)
62–6250 bpi (9-track)

Specifies recording mode for 7-track tape:

C – odd parity, converter on, translater off
T – odd parity, converter off, translator on
ET – even parity, converter off, translator on

{*START / *S} {,TC / ,dev / ,dev adr}

Start the TC DSP.

{*CANCEL / *C} {,TC / ,dev / ,dev adr}

Cancel the TC DSP.

TD DSP: Tape Dump

Function: The tape dump (TD) DSP permits dumping of 7- or 9-track tapes in EBCDIC or hexadecimal character sets to a printer.

Command:

```
{*CALL} ,TD [ ,IN={dev | dev adr | (typ[,group]) | ([typ],group)}
{*X   }     ,OUT={dev | dev adr | (typ[,group]) | ([typ],group)}
            ,NAV={C | R}
            ,ID=nnn
            ,DEN={2 | 5 | 8 | 16 | 62}
            ,MD={C | T | O | E | ET} ]

{*START} {,TD  } [ ,F=±nn
{*S    } {,dev } [ ,R=±nnnnnn
         {,dev adr} ,N=nnnnnn
                    ,M={H | E}
                    ,LL={132 | n}
                    ,HDRS={YES | NO}
                    ,FREE ]

{*RESTART} {,TD  }
{*R      } {,dev }
           {,dev adr}

{*CANCEL} {,TD  }
{*C     } {,dev }
          {,dev adr}
```

Description:

Specifies input device by name, address, or type and/or group. If omitted TA9 is assumed.

Specifies output device by name, address, or type and/or group. If omitted PRT is assumed.

Sets cancellation or rescheduling if devices are not available. The default is as assembled in IATYDSD.

Specifies external label identification

Specifies tape density:
2–200 bpi (7-track)
5–556 bpi (7-track)
8–800 bpi (7- or 9-track)
16–1600 bpi (9-track)
62–6250 bpi (9-track)

Specifies recording mode:
C – odd parity, converter on, translator off
T – odd parity, converter off, translator on
O – odd parity, converter off, translator off
E – even parity, converter off, translator off
ET– even parity, converter off, translator on

Specifies number of files (01–99) to be skipped. If omitted, tape remains at current file.

Specifies records to be skipped within current file. If omitted, tape remains at current record position (record 1 if file positioning specified).

Specifies number of records to be dumped. If omitted, next EOF is delimiter.

Specifies dump mode: H–hexadecimal, E–EBCDIC.

Specifies print line length desired. If M=11, must be half actual length.

Specifies whether header information is to be included in printout.

Suspends dumping of current file to allow repositioning.

Restart the TD DSP.

Cancel the TD DSP.

TL DSP: Tape Label

Function: The tape label (TL) DSP writes a standard label on a 7- or 9-track tape. It also writes an end-of-file header if an unlabeled tape is desired.

Command:	Description:
{*CALL | *X} ,TL [,OUT={dev | dev adr | (typ[,group]) | ([typ],group)}]	Specifies output device by name, address, or type and/or group. If omitted TA9 is assumed.
[,NAV={C | R}]	Sets cancellation or rescheduling if devices are not available. The default is as assembled in IATYDSD.
[,DEN={2 | 5 | 8 | <u>16</u> | 62}]	Specifies tape density: 2–200 bpi (7-track) 5–556 bpi (7-track) 8–800 bpi (7- or 9-track) 16–1600 bpi (9-track) 62–6250 bpi (9-track)
[,NTAPE=nn]	Specifies number of tapes to be labeled. If omitted, only one tape is labeled.
[,INCR=nnn]	Specifies increment to be added to serial number in labeling multiple tapes. If omitted, user specifies SER= parameter in *START command for each tape.
{*START | *S} {,TL | ,dev | ,dev adr} ,SER={vol | NL}	Specifies initial serial number if INCR was specified on the call, or serial number for next tape. NL causes EOF mark to be written on unlabeled tape.
[,OWN=owner id]	Specifies owner's name, 1-10 characters.
[,SEC={YES | <u>NO</u>}]	Specifies if the tape is to be password protected.
{*CANCEL | *C} {,TL | ,dev | ,dev adr}	

TP DSP: Tape-to-Printer

Function: The tape-to-printer (TP) DSP prints files from 7- or 9-track tapes created by OS.

Command: { *CALL | *X } ,TP

Command	Description
,IN= { dev | dev adr | (typ[,group]) | ([typ],group) }	Specifies input device by name, address, or type and/or group. If omitted TA9 is assumed.
,OUT= { dev | dev adr | (typ[,group]) | ([typ],group) }	Specifies output device by name, address, or type and/or group. If omitted PRT is assumed.
,NAV= { C | R }	Sets cancellation or rescheduling if devices are not available. The default is as assembled in IATYDSD.
,D= { 2 | 5 | 8 | 16 | 62 }	Specifies tape density: 2–200 bpi (7-track) 5–556 bpi (7-track) 8–800 bpi (7- or 9-track) 16–1600 bpi (9-track) 62–6250 bpi (9-track)
,MD= { C | T | ET }	Specifies recording mode for 7-track tape: C – odd parity, converter on, translator off T – odd parity, converter off, translator on ET – even parity, converter off, translator on
,C= { P | 1 | 2 }	Specifies forms control.
,CS= { Y | N }	Specifies controlled skip option, primarily used if output to RJP printer to avoid first page eject.
,OV= { Y | N }	Specifies whether skip to channel 1 should occur when channel 12 is sensed.
,F=form	Specifies forms to be used on first report to be printed. Printer device entry is updated with this name.
,CT=carr	Specifies carriage tape to be used for first report. Printer device entry is updated with this name.
,T=train	Specifies train to be mounted prior to printing. Printer device entry is updated with this name.
,CP= { 1 | n }	Specifies number of times the file is to be printed.
{ ,DSN=nnn, . . . n	Initiates catalog search to obtain volume serial numbers (up to 44 characters) required. Specifies volume upon which catalog search is to begin if DSN is given. If omitted, search begins on SYSRES. The fully qualified dsn must be specified.
,V=vol }	Specifies volume serial number of the tape to be printed.
{ ,LB= { N | B | S } }	Specifies type of tape label: N – nonlabeled B – bypass label processing S – standard label
,R= { F | V | U }	Specifies record form: F – fixed length V – variable length U – undefined
,B= { nnn | 133 }	Specifies block length of data to be printed.
,L= { nnn | 133 }	Specifies record length of data to be printed.

TP DSP: Tape-to-Printer (cont.)

Command:	Description:
{*START | *S} {,TP | ,dev | ,dev adr} [,F=form | ,C=carr]	Indicates alteration of forms and/or carriage tape if the sign-on message indicates they are other than desired.
{*RESTART | *R} {,TP | ,dev | ,dev adr} [,J	Restarts job from beginning.
,P=printer name	Restarts the TP DSP to another printer.
,B= {n | +n | −n}	Skips forward or backward n blocks before restarting.
,R= {n | +n | −n}]	Skips forward or backward n files before restarting.
{*CANCEL | *C} {,TP | ,dev | ,dev adr}	

TT DSP: Tape-to-Tape

Function: The tape-to-tape (TT) DSP copies 7- or 9-track tape files.

Command: {*CALL | *X} ,TT	Description:
[,IN= {dev | dev adr | (typ[,group]) | ([typ],group)}	Specifies input device by name, address, or type and/or group. If omitted TA9 is assumed.
,OUT= {dev | dev adr | (typ[,group]) | ([typ],group)}	Specifies output device by name, address, or type and/or group. If omitted TA9 is assumed.
,NAV= {C | R}	Sets cancellation or rescheduling if devices are not available. The default is as assembled in IATYDSD.
,ID=nnn	Specifies external label for input tape.
,DENI= {2 | 5 | <u>8</u> | 16 | 62}	Specifies input or output tape density: 2–200 bpi (7-track) 5–556 bpi (7-track) 8–800 bpi (7- or 9-track) 16–1600 bpi (9-track) 62–6250 bpi (9-track)
,DENO= {2 | 5 | <u>8</u> | 16 | 62}	
,MDI= {C | T}	Specifies input or output recording mode for 7-track tape: C – converter on, translator off T – converter off, translator on Omitted – converter off, translator off Tape is read initially in even parity if T is specified, odd otherwise. If unsuccessful, parities of both tapes are reversed.
,MDO= {C | T}	
,TMI= {0 | + 1 . . . 999}	Specifies, for input (TMI) or output (TMO), number of tape marks to be skipped from load point or to be backspaced. If omitted, no repositioning occurs.
,TMO= {0 | + 1 . . . 999}	
,FILES= {1 . . . 999}]	Specifies number of files to be copied.

TT DSP: Tape-to-Tape (cont.)

```
{ *START }  { ,TT      }
{ *S     }  { ,dev     }
            { ,dev adr }

{ *CANCEL }  { ,TT      }
{ *C      }  { ,dev     }
             { ,dev adr }
```

WTR DSP: Output Service Writer

Function: Operator commands are required to invoke hot writers and to respond to mount or error messages. They may be used to change writer options, restart a data set or job, cancel a data set or job, change data set selection characteristics, or terminate the writer. In general, commands and parameters apply to print, punch, and TSO writers. Any device type specific parameters are noted. Parameters that apply only to the IBM 3800 Printing Subsystem writer for the *CALL, *START, and *RESTART commands are described separately after the *START command.

Command:	Description:
{ *CALL / *X } ,WTR	
[{ ,M / ,A }	Specifies writer operation mode (M–manual, A–automatic). If M is specified, the operator must issue *S,dev for each data set.
,OUT= { dev adr / dev / main / (typ[,group]) / ([typ],group) }	Specifies output device address, name, or type and/or group. If omitted, PRT is assumed.
,NAV= { C / R }	Specifies option if requested device is not available (C–cancel, R–reschedule).
,H= { Y / N }	Specifies data set header option.
,B= { Y / N }	Specifies job burst page option. **Note**: *If H= or B= are omitted, DEVICE statement parameters are used.*
,L= { nnn / nnn+ }	Specifies the maximum or minimum number of lines per data set for processing.
{ ,F / ,U / ,CT } = nam [{ ,H / ,R } . . .]	Specifies forms, UCS, and carriage (FCB) names to be mounted and whether they are changeable (R) or held (H).
,SZ=(xx,yy)	Specifies that the number of pages in a SNA chain be set to xx and the number of lines per page be set to 44.
,WS= { (val[,val] ...) / (/val[,/val] ...) }	Specifies the writer data set selection characteristics and order of importance. Specified values overlay the order specified in the OUTSERV statement. Values prefixed with / are ignored. Values omitted and not removed by use of the / indicator are picked up in their order of specification on the OUTSERV statement during initialization. The specified value may be: P–priority, D–destination, T–type, F–forms, C–carriage or FCB, U–UCS (train), CL–class, L–line limit.
,WC=(cls[,cls] . . .)	Specifies the SYSOUT classes to be selected.
,D]	Specifies that the diagnostic made is to be set.
{ *CANCEL / *C } { ,dev / ,dev adr / ,J=jobno } [[{ ,J / ,T }]]	The *CANCEL command with device name or address cancels the currently active data set. The J parameter cancels the currently active job; T causes the writer to terminate upon completion of the current request.
*INQUIRY	See the *INQUIRY command in "JES3 Operator Commands" earlier.
*MODIFY	See the *MODIFY command in "JES3 Operator Commands" earlier.

WTR DSP: Output Service Writer (cont.)

Command: {*RESTART | *R} {,dev | ,dev adr | ,J=jobno}

Operand	Description
{,M | ,A}	Sets manual mode (not valid for TSO) or sets automatic mode.
{C | G | J | N | [L]}	C – restarts current data set at last checkpoint (1000 records). G – Specifies to reprint all data sets processed by the restarted device for the current job. J – reprocesses all data sets of current job. N – restarts current data set at previous note point (100-200 lines/records) (not valid for TSO). L – Reloads FCB and UCS/CHARS buffer. Restart printing based upon other parameters.
[,S	Specifies printing will resume in single space at beginning of data set (printers only).
,P	Specifies that the approximate number of records remaining to be written for the current data set be displayed.
,H={Y | N}	Sets data set header option (not valid for TSO).
,B={Y | N}	Sets job burst page option (not valid for TSO).
,R={n[P] | -n[P]}	Repositions current data set forward or backward n lines or pages (P). If specified as the only parameter, then it repositions from beginning of data set. If specified with C or N, it repositions from checkpoint or note.
,D={dev | dev adr}	Specifies new device on which current and subsequent data sets are to be processed.
,CP={nnn | +nnn | -nnn}	Specifies copy count of current data set is to be replaced, increased, or decreased by nnn.
,HOLD	Specifies current data set is to be placed in HOLD for later processing.
,T	Specifies that writer terminate on completion of current request.
{,F= | ,U= | ,CT=} {nam | STANDARD | ([nam] {,H | ,R})}...	Specifies forms, UCS, and carriage (FCB) names to be mounted and whether they are changeable (R) or held (H). These parameters should be used in response to messages IAT7005, IAT7006, or IAT7030.
,SZ=(xx,yy)	Specifies that the number of pages in a SNA chain be set to xx and the number of lines per page be set to yy.
,WS={(val[,val]...) | (/val[,/val]...)}	Specifies the writer data set selection characteristics and order of importance. Specified values overlay the order specified in the OUTSERV statement. Values prefixed with / are ignored. Values omitted and not removed by use of the / indicator are picked up in their order of specification on the OUTSERV statement during initialization. The specified value may be: P–priority, D–destination, T–type, F–forms, C–carriage or FCB, U–UCS (train), CL–class, L–line limit.
,WC=(cls[,cls]...)	Specifies the SYSOUT classes to be selected.
,RSCD]	Specifies that the writer is to perform a scheduling pass. This parameter usually is used in the command *R,name,C,T,RSCD.

WTR DSP: Output Service Writer (cont'd)

*START or *S, followed by ,dev or ,dev adr or ,J=jobno

Command:	Description:
{ ,M / ,A }	Specifies writer operation mode (M—manual, not valid for TSO; A—automatic). If M is specified, the operator must issue *S,dev for each data set.
,S	Specifies single-space printing for remainder of data set (valid for printers only).
,P	Specifies that the approximate number of records remaining to be written for the current data set be displayed.
,T	Specifies that writer is to terminate upon completion of current request.
,H= { Y / N }	Specifies data set header option.
,L= { nnn / nnn+ }	Specifies the maximum or minimum number of lines per data set for processing.
,B= { Y / N }	Specifies job burst page option. **Note:** *If H= or B= are omitted, DEVICE statement parameters are used.*
,R= { n[P] / -n[P] }	Repositions from current position in data set.
,CP= { nnn / +nnn / -nnn }	Alters the copy count of currently active data set.
{ ,F / ,U / ,CT } = { nam / STANDARD / [nam] { ,H / ,R } } . . .	Specifies forms, UCS, and carriage (FCB) names to be mounted and whether they are changeable (R) or held (H). These parameters should be used in response to message IAT7030.
,SZ=(xx,yy)	Specifies that the number of pages in a SNA chain be set to xx and the number of lines per page be set to yy.
,WS= { (val[,val] ...) / (/val[,/val] ...) }	Specifies the writer data set selection characteristics and order of importance. Specified values overlay the order specified in the OUTSERV statement. Values prefixed with / are ignored. Values omitted and not removed by use of the / indicated are picked up in their order of specification on the OUTSERV statement during initialization. The specified value may be: P—priority, D—destination, T—type, F—forms, C—carriage or FCB, U—UCS (train), CL—class, L—line limit.
,WC=(cls[,cls] ...)	Specifies the SYSOUT classes to be selected.

*CALL, *RESTART, *START
3800 Printing Subsystem Parameters

Note: *The CH=, FL=, CM=, and SS= parameters apply only to the IBM 3800 Printing Subsystem writer. They specify reassignment of the 3800 writer characteristics. These may be used with other appropriate parameters for the commands.*

Command:	Description:
,CH= { tab[,tab] . . . } { ,H / ,R }	Specifies the reassigned character arrangement tables. No more than four table names can be specified. H specifies that this character arrangement table is to be used until you change it. R specifies JES3 may request a different table.
,FL= { overlay { ,H / ,R } / NONE }	Specifies the reassigned forms overlay frame. H specifies that only the designated form is to be used on this device until you change this status. R specifies that JES3 may request that a different form be placed on this device. NONE specifies that no forms overlay frame is designated for this writer.
,CM= { (([module[,trc]] { ,H / ,R }) / NONE }	Specifies the reassigned copy modification module. trc specifies the table reference character (0, 1, 2, 3). H specifies that only the designated copy modification module is to be used on this device until you change this status. R specifies that JES3 may request that a different copy modification module be placed on this device. NONE specifies no copy modification module is designated for this writer.
,SS= { C / S } [{ ,H / ,R }]	Specifies the stacker select option. C specifies continuous fanfold. S specifies printed output is to be burst into separate sheets.
,WS= { (val[,val] ...) / (/val[,/val] ...) }	Additional WS=(val, . . .) parameters are: FL – forms FLASH CM – copy modifier SS – stacker selection CH – character images (analogous to TRAIN/UCS)
,CB= { D / J }	Specifies whether clear print burst processing is to be performed after each data set (D) or at the end of the job (J).