

**JES Queue for Printers  
(JQP)  
Installation and User Manual**

**Release 3.5**

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# JES Queue for Printers

## Installation and User Manual

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# Introduction

## 0.1 Introduction

JES Queue for Printers (JQP) prints any report from the JES output queue to printers defined to VTAM or TCP/IP. VTAM printer types supported are SNA, NON-SNA and SCS. TCP/IP printing is supported in an LPR client and LPD server environment, where JQP is the LPR client. The LPD server must support the Line Printer Daemon Protocol, RFC 1179. JQP supports network adapters with a direct TCP/IP connection (“sockets” or “ports” connection). Reports in the JES output queue are automatically selected based on their DESTID and printed to the printer defined for the destination. Both machine code and ASA control characters are supported. FCB emulation is supported using the FCB images from the SYS1.IMAGELIB library. A standard separator page is available and an exit is provided for customizing the separator page. Printers may be started or stopped as necessary and reports may be halted and then restarted from the last page printed (VTAM type printers only) or at any line within the report. Form mounting is supported. Reports do not print unless the FORM of the report matches the current printer’s FORM. Commands are available to display the status of reports currently printing or waiting for printing. Commands are also available to manipulate both printers and reports. Security is provided to prevent users from accessing reports and printers. Each printer defined has a specified maximum number of lines allowed to prevent reports exceeding this number from printing on the printer. Printer translation tables are available to convert certain hexadecimal characters in the report to prevent hardware errors. Reports are directed to a destination name (same or different name as VTAM or TCP/IP printer). This allows the physical printer to have different options (separator pages, page eject options, line width, maximum number of lines, and translate table) based on the destination name.

## 0.2 Terminology

In this manual, the following terms are used.

JQP	JES Queue for Printers
MPT	MacKinney Print Transform
AFP	IBM Advanced Function Presentation

Note: JES Queue Client for Printers was the name of this product prior to release v2.1.

## 0.3 Requirements for JQP

JQP requires:

z/OS	-	1.8 or higher
VTAM	-	2 or higher
TCP/IP	-	3.4 or higher

Note: z/OS v2.2 requires PTF UI34846, reference APAR PI52347.

Note: z/OS v1.11 requires PTF UA55442, reference APAR OA33407.

Note: z/OS v1.10 requires PTF UA45348, reference APAR OA25382.

Note: z/OS v1.9 requires PTF UA45347, reference APAR OA25382.

Note: z/OS v1.9 requires PTF UA37848, reference APAR OA22889.

## 0.4 TCP/IP Special Notes

### **JQP supports both IPV4 and IPV6 printers.**

Installations must be z/OS v1.8 Communication Server or later. This requirement was added to support IPv6.

**JQP supports open or direct socket printers.** For HP type printers, this is normally port number 9100.

**JQP supports TCP/IP printing in an LPR client and LPD server environment**, where JQP is the LPR client. Any LPD server supporting the Line Printer Daemon Protocol, RFC 1179 should work successfully with JQP. JQP has been successfully tested with the Hewlett Packard JETDIRECT 500X, IBM RS/6000 AIX and IBM z/OS LPD servers.

For TCP/IP printers using the LPD server, the print data stream is not sent directly to the TCP/IP printer queue. In order to do a robust send to the LPD printer queue, a data set is dynamically allocated to contain the print data stream. The data set name is “*hql.JQP#####.destination.name.jobid*”, where *hql* is the High Level Qualifier, *#####* is a number between 1 and 99999, *destination* is the name of the destination entry assigned to the TCP/IP printer, *name* is the report’s name in the JES output queue, and *jobid* is the report’s type of job (JOB, TSU, or STC) and report’s number in the JES output queue. When a duplicate allocation occurs, JQP attempts to allocate a new data set up to ten times before an error is issued and the report printing fails. The data set size is calculated on the number of print lines. JQP computes the number of print lines per 3380 track based upon the maximum record size for the print line. Primary allocations are in tracks for data sets computed for 15 tracks and under. Primary allocations are in cylinders for data sets computed for over 15 tracks and rounded to the next cylinder. Secondary allocation for a data set with 15 tracks and under is always 1 track. Secondary allocation for data sets over 15 tracks is ten percent of the primary allocation rounded up to the next cylinder.

After the entire JES output queue report is read, formatted, translated to ASCII and written to the dynamically allocated data set, a TCP/IP subtask is acquired for use by the TCP/IP printer. When no TCP/IP subtask is currently available, the print task waits for the next TCP subtask to become available. After a JQP TCP/IP subtask is acquired, the TCP/IP connection to the TCP/IP LPD server is established to port 515. The print data set is read from the dynamically allocated data set and sent to the LPD server. JQP must then wait for an ACK (positive acknowledgement) from the LPD server. After the ACK has been received, the print control file is constructed and sent the LPD server. JQP must then wait for an ACK from the LPD server. After the ACK has been received, the TCP/IP connection is terminated.

Upon successfully completing the sending both the print data stream file and control file, the dynamically allocated data set is deleted. JQP purges the report from the JES output queue and removes the report from the Print Work Queue.

In the event a NAK (negative acknowledgement) is received from any TCP call, the TCP/IP connection is terminated and the report in the Print Work Queue is posted with an error condition. The dynamically allocated data set is purged.

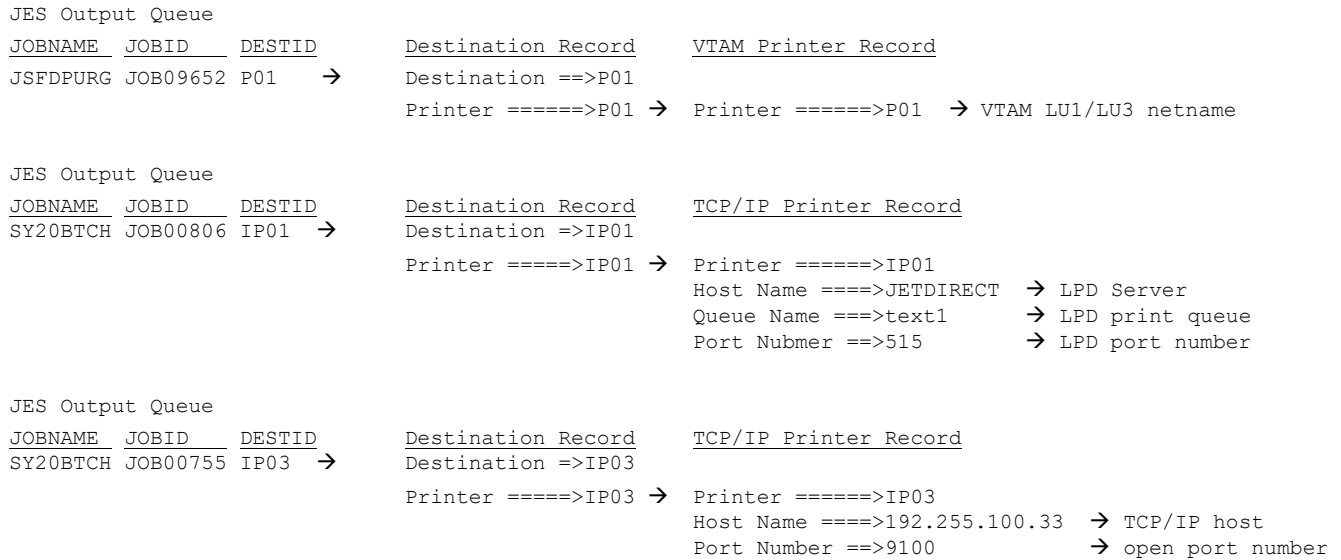
### **JQP supports TCP/IP Internet Printing Protocol (IPP) and Internet Printing Protocol Secure (IPPS).**

Any network printer or print server supporting Internet Printing Protocol (RFCs 8010/8011) should work successfully with JQP.

The connection between JQP and an IPP printer/server is established to port 631 and port 443 for secured connections. JQP supports two sending methods. The default method is sending the report to the printer/server using the chunked method. This is similar to “open socket” printers.

The alternate method is sending the report to the printer/server using the Content-Length method. This is similar to LPD printers.

The following diagram illustrates how the JQP definitions are used to select reports from the JES output queue and sent to the printer.



**JQP supports network adapters with a direct TCP/IP connection (“sockets” or “ports” connection).** A direct TCP/IP connection allows JQP to send the report directly to the printer, bypassing the Line Printer Daemon (LPD).

Most HP JetDirect network printer adapters support a direct socket interface. All LPD connections use port 515. Setting the “Port Number” parameter to some other value indicates a direct socket connection to JQP. The most commonly used port for a direct socket connection is 9100, but maybe 9102 or 9109 (reference the documentation for the network printer adapter).

Direct socket connections are faster. The report is not spooled to temporary data sets before being sent to the network printer. Restarting a failed print from the last page printed is also supported with direct sockets.

## 0.5 EMAIL Notification Feature

JQP supports email notification for reports printed successfully, reports failing to print successful, reports re-queued, and for printers requiring intervention. Email notification is not supported for GDDM type printers and for reports printed to a data set (\$FILE). Email notification parameters are set globally in the Control Table (JQPFDFACT) or at the printer level. The NOTIFY parameter in the Control Table or printer definition determines the notifications JQP performs. The status of the email notification is displayed with the EMAIL command.

When a notification should be sent, JQP places an email request on the email notification queue. The email notification feature automatically starts an email cycle every minute. During the email cycle, JQP scans the email notification queue for entries to email or delete.

When the email notification fails, JQP delays and retries the email notification the number of times specified by the MAILOPTS parameter in the Control Table (JQPFDFACT). After the number of retry attempts is exceeded, JQP marks the email notification request as expired. During the next email cycle, the email notification request is deleted.

An email notification job name table (JQPFDJEJ) is available to limit email notification based on the job name of the report. The printer is assigned a job name group name containing the job names eligible for email notification.

In addition, the ability to email the JQPLOG for a printer to MacKinney Systems technical support is provided. Send the current JQPLOG for the printer by keying the letter “E” next to the destination on the JQPDIPQ screen. To control JQP users sending an email, reference the [SECMENU](#) parameter in the Control Table (JQPFDFACT). This feature is really intended for use in conjunction with MacKinney Systems technical support personal and is not documented elsewhere in the manual.

To email a JQP trace written to the JQPLOG for a printer, use the EMAIL command with the JQPLOG option. First, use the EMAIL command to allocate a temporary data set to replicate all messages written to the JQPLOG, then turn on the JQP trace for the printer. The size of the temporary data set is determined by the MAILOPTS parameter in the Control Table (JQPFDFACT). After the JQP trace is completed, use the EMAIL command to stop the JQPLOG message replication and to email the temporary data set to MacKinney Systems technical support as an attachment. In the event the JQPLOG is too large to email, use the EMAIL command to deallocate the data set, and then FTP it to MacKinney Systems technical support.

The EMAIL command can email a test message to MacKinney Systems technical support or another email address.

## 0.6 MacKinney Print Transform Feature

JQP interfaces with MacKinney Systems product MacKinney Print Transform (MPT) to support print transforms. AFP and AFP Line Data input data set formats are supported. AFP is defined as a fully composed data set (MO:DCA). AFP Line Data is defined as traditional 'MVS' print lines (MCC, ASA, nocc). MPT combines the print line data with the AFP resources (PAGEDEF, FORMDEF, etc.) and produces the desired output format.

JQP determines the type of input data set automatically based upon the following rules.

- 1: AFP data sets in the JES Output queue have the Page Mode flag set in the SAPI control blocks for the report.
- 2: AFP Line Data data sets in the JES Output queue have either a PAGEDEF and/or FORMDEF parameter.
- 3: JQP Printer definition specifies print transforms for all reports.

Output data set formats supported are PCL and Postscript.

When a report is selected to transform, JQP assigns a print transform member definition to the report. This member is part of the TCP/IP printer definition or can be determined by JCL parameters. The print transform member contains the transformation options necessary to interface with MPT. JQP releases the report to transform to allow the MPT server access to the report. MPT places the transformed data set in the JES Held queue and releases the report. JQP reacquires the report and sends the transformed data set to the TCP/IP printer. The transformed data set is purged from the JES Held queue and the report is purged or held based upon the disposition parameters for the printer.

By default, all data sets within the report are transformed before connection to the TCP/IP printer is made and all the data sets of the report are sent to the TCP/IP printer at the same time.

Optionally, each data set within the report can be processed separately. JQP transforms each data set, connects to the TCP/IP printer and sends the transformed data set separately. The transformed data set is purged from the JES Held queue after successfully sent to the printer; however, the original report in the JES Output queue is not deleted until all the data sets within the report are successfully sent to the TCP/IP printer.

In the event printing on the TCP/IP printer stops, complete transformed data sets are kept in the JES Held queue. When the printer is restarted, JQP uses the transformed data set (when still available). By reusing the transformed data set, JQP eliminates the overhead of an additional transform for the same data set. This also allows sending the report to a different TCP/IP printer without doing an additional transform for the same data set.

Use the LIBRARYX command to display all transformed data sets in the JES Held Queue.

Note: JQP does not maintain a list of transformed data sets across recycles.

## 0.6.1 Enable the MPT Feature

To enable the MacKinney Print Transform feature, make the following changes in the Control Table JQPFDFCT:

1. Add/change the MPT parameter to MPT=YES.
2. Add/change the MPT parameter to CTOKEN=YES.  
Note: The CTOKEN=YES change requires recycling JQP.
3. Add/change the MPT parameter MPTPORT= to match the MPT Control \$INIT Keyword  
TCPIP\_CLIENT\_PORT=.
4. Add/change the MPT parameter to MPTHOST=127.000.000.001. This assumes MPT and JQP are running on the same stack. If they are not, specify the correct IP stack address where MPT is running.
5. For all other control table parameters starting with MPT, omit the parameter or specify the default.  
These parameters are added when directed by MacKinney Systems technical support.

After recycling JQP, perform the following:

1. Issue the JQP SHOW command.
2. Find the MPT parameters using the JQP command “FIND MPT” and verify the MPT parameters are correct.
3. Issue the JQP command “MPT PING” to test connectivity to MPT.  
Note: The message “JQPCMPTX04 \*\* PORT=8888 PING=NORMAL” is returned when JQP has connectivity to MPT. For other messages, reference [JQP to MPT Connectivity Failure](#) later in this section.

To enable the Print Transform Feature for the JQP printer, change the JQP printer definition to the following:

MPT Support =====> 1 IDON \_\_\_\_\_

The second field IDON is a sample JQP Transfer Member setup for PCL transforms. Start with this sample, most likely a new Transfer Member will need to be defined with changes for the printer.

## 0.6.2 JQP to MPT Connectivity Failure

The message “JQPCMPX06 \*\* FUNCTION "CONNECT SOCKET" HAS FAILED, PORT=8888” is returned when the connectivity to MPT fails. Follow the steps below until the problem is resolved.

1. Verify JQP and MPT are using the same TCP port number.
  - a. In the MPTLOG, search for message MPTE199 \*\* COMM SERVER LISTENING ON PORT 8888 \*\*. In this example, the port number is 8888. The port number is defined in the MPT control library member \$INIT, keyword TCPIP\_CLIENT\_PORT.
  - b. Use the port number displayed in the JQPCMPX06 message or issue the JQP command SHOW. Find the MPT information using the JQP command “FIND MPT”.

MPTPORT	MPT Port Number	8888 ,0000
---------	-----------------	------------

In this example, the primary MPT port number is 8888 and the secondary MPT port number is not available. The MPT port number is defined in the Control Table (JQPFDFACT) MPTPORT parameter.

2. Verify JQP is using the correct TCP host address.
  - a. Issue the TSO command “NETSTAT (PORT 8888” where, PORT 8888 is the Port number used by MPT.

MVS TCP/IP NETSTAT CS V2R1	TCPIP Name: TCPIP
User Id Conn State	
-----	
MPT 00001123 Listen	
Local Socket: 127.0.0.1..8888	
Foreign Socket: 0.0.0.0..0	

In the example, MPT is using the home TCP host address 127.0.0.1. The host address is defined in the MPT control library member \$INIT, keyword TCPIP\_HOME\_IP@.

- b. Issue the JQP command SHOW. Find the MPT information using the JQP command “FIND MPT”.

MPTHOST	MPT Host Name	127.000.000.001
---------	---------------	-----------------

In this example, the home TCP host address 127.0.0.1 is defined for MPT. The address is defined in the JQP Control Table (JQPFDFACT) MPTHOST parameter.

- c. If the home address 127.0.0.1 does not work, use the host address assigned to the TCP stack MPT is using. In the MPTSUB, search for message “MPTE035 \*\* TCP/IP ADDRESS: 172.000.000.001 \*\*\*”. In this example, MPT is using the home stack address 127.0.0.1.

3. Verify MPT is using the correct TCP stack address.
  - a. Issue the TSO command “NETSTAT HOME”.

MVS TCP/IP NETSTAT CS V2R1	TCPIP Name: TCPIP
Home address list:	
LinkName: LOOPBACK	
Address: 127.0.0.1	
Flags:	
IntfName: OSA4	
Address: 192.29.127.59	

In this example, the TCP stack address is 192.29.127.59.

Note: It is possible the TCP stack is multi-homed.

In this case, the first host address is used as the default.

- b. Select the correct host address to use for the MPT and JQP connection. The host address is defined in the MPT control library member \$INIT, keyword TCPIP\_HOME\_IP@. The host address is defined in the JQP Control Table (JQPFDFACT) MPTHOST parameter.

4. Call Technical Support for assistance.

Note: For any MPT control library member \$INIT change, recycling MPT is required.

Note: For any JQP Control Table (JQPFDFACT) change, assemble/link JQPFDFACT and issue the JQP command “NEWCOPY JQPFDFACT” or recycle JQP.

### 0.6.3 JQP to MPT Connectivity Chart

The following chart displays the results from various Host Address combinations. The real Host Address for the stack is 192.29.127.59. Both MPT and JQP utilize the same TCP stack with only one Host Address defined.

<u>MPT – keyword TCPIP_HOME_IP@</u>	<u>JQP - parameter MPTHOST</u>	<u>Result</u>
192.29.127.59	192.29.127.59	Success
192.29.127.59	127.0.0.1	Failure
192.29.127.59	0.0.0.0	Failure
127.0.0.1	192.29.127.59	Failure
127.0.0.1	127.0.0.1	Success
127.0.0.1	0.0.0.0	Success
0.0.0.0	192.29.127.59	Success
0.0.0.0	127.0.0.1	Success
0.0.0.0	0.0.0.0	Success

Note: For MPT, omit the keyword TCPIP\_HOME\_IP@ to use Host Address 0.0.0.0

Note: For JQP, specify MPTHOST=0.0.0.0 to use Host Address 0.0.0.0

## 0.6.4 Primary and Secondary MPT Ports

Why would you need a primary and secondary MPT port? When it is necessary to execute a test and production version of the MPT product or when migrating from one MPT release to another.

**Restriction! Both the primary and secondary MPT regions must use the same TCP/IP stack.**

Both the primary and secondary MPT port numbers are specified in the Control Table (JQPFDFACT) [MPTPORT](#) parameter. The first number is the primary MPT port number and the second number is the secondary MPT port number. Omit the second number or specify zero to use only the primary MPT port number.

The JQPCNTL DD specifies the source PDS data set containing the \$MPT member used to determine when JQP uses the secondary MPT port number. Comment lines start with an asterisk "\*" character in column one.

Syntax: PAGEDEF=*name*,FORMDEF=*name*

The *name* comes from the report's JCL PAGEDEF and/or FORMDEF parameters (1 to 6 bytes in length).

Example: PAGEDEF=STD1,FORMDEF=IBM

An internal table is built during JQP initialization from the PDS member \$MPT.

Use the command "NEWCOPY \$MPT" to refresh the internal table with the \$MPT member changes.

In the event the \$MPT member is loaded with errors, review the JQPLOG for the \$MPT member lines in error.

To display the internal table built from the PDS member \$MPT, use the command "MPT \$MPT".

Example output:

```
-- Top of Display --
-----
PAGEDEF      FORMDEF
-----
P1STD1      F1IBM
-- End of Display --
```

Note: The PAGEDEF name is prefixed with P1 and the FORMDEF name is prefixed with F1.

To ping the primary MPT port number, use the command "MPT PING".

To ping the secondary MPT port number, use the command "MPT PING2".

## 0.7 PJJ Feature

Print Job Language (PJJ) is a set of commands used to obtain information about the printer. Not all manufacturers support PJJ. Please check the printer's documentation to determine if the printer supports PJJ.

To use PJJ, the TCP/IP printer must be defined to JQP as an "open socket" printer (i.e. port number not equal to 515).

JQP can send the PJJ INFO command to retrieve the printer's model number, configuration information, file system information, memory available, pages printed, current status and printer variables (reference the [PJJ](#) command).

JQP can also request "unsolicited status" during printing. Using this status, JQP is informed when the printer status changes or when a page reaches the output tray. This information is stored internally in JQP and displayed on the JQPFDIRY screen. A "time interval" option is available to automatically send an "unsolicited status" response from the printer to JQP every 5 to 300 seconds.

JQP can optionally send the PJJ JOB command before the report is printed and the PJJ EOJ command after the report is printed. When using this option, JQP receives a PJJ EOJ "unsolicited status" response from printer when the last page is successfully printed. The PJJ JOB command also allows restarting print from a specific page and stopping at a specific page (reference the [RESTARTJ](#) command). When this option is not used, the PJJ ECHO command is used to determine when the report has successfully printed.

PJJ support is controlled by the Physical Table JQPFDFPH parameter PJJ or field "PJJ Options" on the TCP/IP printer update screen JQPFDIRI.

After the TCP/IP printer connection is established, JQP sends the following PJJ commands to the printer.

PJJ COMMENT	JQP STARTING PJJ COMMANDS SEQUENCE
	Note: When this comment prints on the printer, the printer does not support PJJ.
PJJ USTATUSOFF	this command turns off all unsolicited status for the printer set by previous connections.
PJJ ECHO	This command synchronizes the printer with JQP.

For each report printed, JQP sends the following PJJ commands to the printer.

PJJ USTATUS DEVICE	Controlled by the PJJ parameter 5 <sup>th</sup> switch. Enables unsolicited device status so the printer sends a status message when device changes occur.
PJJ USTATUS JOB	Controlled by the PJJ parameter 6 <sup>th</sup> switch. Enables unsolicited job status so the printer sends a status message every time a job begins, ends or is cancelled.
PJJ USTATUS PAGE	Controlled by the PJJ parameter 7 <sup>th</sup> switch. Enables unsolicited page status so the printer sends a status message every time a page reaches the output tray.
PJJ USTATUS TIMED	Controlled by the PJJ parameter 8 <sup>th</sup> switch. Enables timed unsolicited status so the printer automatically sends a status at specified time increment (in seconds). The number of seconds is controlled by the 2 <sup>nd</sup> PJJ parameter.
PJJ JOB	Controlled by the PJJ parameter 2 <sup>nd</sup> switch. Informs the printer of a new PJJ job and synchronizes the job and page status information. The PJJ JOB and EOJ commands are always used in pairs. Controlled by the PJJ parameter 4 <sup>th</sup> switch, displays the report NAME on the printer's control panel. The size of the printer's control panel determines how many characters display. The report NAME format is "JOBNAME/JOBID/GROUPID". Optionally using the RESTARTJ command, specify the report pages to print.

After each report prints, JQP sends the following PJJ commands to the printer.

PJJ USTATUS EOJ	Controlled by the PJJ parameter 6 <sup>th</sup> switch, informs the printer the report is complete. The printer sends an "unsolicited status" to JQP to confirm the report has printed.
PJJ ECHO	When JOB/EOJ is not used, JQP uses the ECHO command to confirm the report has printed.

Before the TCP/IP printer connection terminates, JQP sends the following PJJ commands to the printer.

PJJ USTATUSOFF	Turn off all unsolicited status for the printer set by JQP.
----------------	---

JQP separator pages are included in the PJJ page count. The PJJ page count is increased each time a page reaches the printer's output tray. This must be taken into account when using the JQP RESTARTJ command to start from a specified page.

In the event a report fails on a PJJ printer, the destination assigned to the report is placed into a FAIL-xx status. Based on the Automatic Restart Table JQPFTRST, JQP automatically restarts the report from the last page printed plus one by using the PJJ JOB command START parameter. The entire report is sent to the printer. The printer goes into a non-printing mode until the START page is ready to print.

Restart report procedure for PJJ printers currently printing

1. Press the STOP button on the printer's control panel to stop printing.
2. Issue the JQP HALT command for the destination assigned to the report currently printing.
3. Using the printer's control panel, cancel any pages in the printer's memory waiting to print.
4. Use the JQP RESTARTJ command to restart printing from the last page printed plus one, a specific page number, or a page relative to the last page printed

Print only pages 5 through 10 for a report in the JES Output queue

1. Issue the JQP HALT command for the destination assigned to the report.
2. Issue the JQP "RESTARTJ *dest*,5,10" command to print only pages 5 through 10.

## 0.8 JQP 3.5 Enhancements

- The LPD/LPR undocumented RFC1179 options command (uppercase “O”) was added.  
Reference [JQPFDFCF routine CMDUO](#).
- Option to place the literal before the routine variable added to the LPD Control File Group Table was added.  
Reference the [JQPFDFCF SWITCH parameter](#), 3<sup>rd</sup> switch.
- Option to use the JQP user’s security to issue a console command was added.  
Reference the [JQPFDFCT SECURE parameter](#), 7<sup>th</sup> option.
- Internet Printing Protocol (IPP) and Internet Printing Protocol Secure (IPPS) was added.
- Support for Model 3/4/5 and larger screen sizes added to all JQP paging screens (excluding the JQPFDFL screen).
- Support for the Advance Encryption Standard (AES) Printers Encryption Feature was removed.
- Additional dynamic allocation information added to message JQPRDYNA02.

## 0.9 Previous JQP Enhancements

### JQP 3.4 Enhancements

- A PDS member name in the JQPCNTL data set containing JQP commands executed at startup was added. Reference the Control Table [INIT](#) parameter, 2<sup>nd</sup> option.
- New feature adding the Initial Status (ISTATUS) field to the JQP destination definitions. Reference the Destination Table [ISTATUS](#) parameter.
- Setup modules from JQP v2.2 to v3.3 do not require assemble under the current release. Reference section [1.4 Migrating from Prior Releases](#).
- Retrieve previous command added. Reference the [RETRIEVE](#) command.
- Entering the [FIND](#) command immediately after the JQPCFIND01 string is not found message, re-starts the command from the top of the display.
- Option to change or delete the JQP “Print Transform Member” records using the JQP [CHANGE](#) or [DELETE](#) line commands.
- Option to dynamically create the Export Definitions PDS was added.
- Option for SMTP Authentication was added. Reference the Control Table [MAILOPTS](#) parameter, 4<sup>th</sup> option.
- RACF call to verify the user on a separate TCB option added to prevent JQP from hanging when RACF waits on an operator reply. Reference the Control Table [SECURE](#) parameter.
- New feature adding a secondary MacKinney Print Transform (MPT) port number. This allows JQP to redirect the print transform to a secondary MPT running on the same TCP/IP stack. Reference section [0.6.4 Primary and Secondary MPT Ports](#).
- Third and fourth parameters added to the RIPPLE command to specify the AFP PAGEDEF and FORMDEF values. Fifth parameter added to the RIPPLE command to specify the number of ripple pages to print. Reference the [RIPPLE](#) command.
- New Postscript setup modules PSL2STD, PSP1STD and PSP2STD. Reference section [Appendix A Sample Printer Setup Modules](#).
- The RETAIN STATE option (ACTIVE or HOLD) added to the destination DISP and REQUEUE parameters. Reference the Destination Table [DISP](#) and [REQUEUE](#) parameter.

### JQP 3.3 Enhancements

- JQP license information (password) can be specified in the PDS source member [SINIT](#).
- The JQP destination name added to the SMF type-6 record.
- Feature to trace the SMF Type-6 records written was added.
- Option to place the destination in an EDRAIN status in the event of a SAPI logic error FAIL-15 has been added. Reference Control Table parameter [FLAGA\(5\)](#).
- SYSID field add to the LPD Control File Group Table JQPFDFCF.
- Option to bypass JQPFDFCF LPD Control File field truncation was added.
- New exit [JQPFEX03](#) to insert lines or data before the JQP setup module.
- New exit [JQPFEX04](#) to modify the JQP destination record before printing starts was added.
- Option to send the JQPLOG to the printer in the event a MacKinney Print Transform (MPT) fails. Reference Control table parameter [MPTFLAG\(1\)](#).
- Option added to scan AFP page mode reports for mixed mode. Reference Control table parameter [MPTFLAG\(2\)](#).
- Load module routine enhanced to verify the module's RENT/REUS attribute. In the event the module does not have the RENT/REUS attributes, continue to load the module and issue a warning message JQPRLDPH08.
- Option to pass the FCB image to the JQP separator exit. Reference Physical Table [SWITCH2](#) parameter.
- Option to use temporary data sets for the LPD work files. Reference Control Table parameter [FLAGA\(3\)](#).
- The SHOW command display (excluding buffer allocations) is included within the printer tracing information.
- Console message JQPROCWR01 is displayed first for multiple line messages not starting with the message ID JQP.
- MacKinney Systems products JES Report Broker, VTAM Virtual Printer and MainFormIT and various other vendor products create reports identified with an alternate Job Name and/or Job ID identification. The alternate identification comes from the original reports these products process as input. JQP will display the alternate identification when available.
- Programs to create a JQP Tables JQPFDFDS, JQPFDFPH, JQPFDFPT and JQPFDFUS from the definitions on the JQPFILE.  
Program to migrate the JQPFDFDS, JQPFDFPH, JQPFDFPT or JQPFDFUS tables to the JQPFILE.  
Added to release level JQP 3.3.18, reference [2.16 JQPFILE Utilities](#).

## JQP 3.2 Enhancements

- RACF security call tracing was added.  
Reference the TRACE command.
- Replace existing JQP definitions with imported definitions option was added.  
Reference 4.4.13 Import Definitions.
- Second email notification address for a JQP printer definition was added.  
Reference Printer definition parameter “Email TO:” and Control Table MAILTO parameter.
- For JQP destinations using RAW=1, option to print the separator page using an ASCII translate table.  
Reference Destination definition “Option Flags”, 2<sup>nd</sup> set.
- Feature to trace the DCB and record returned from JES has been added.  
Reference the TRACE command.
- Changes the Printer Security Table JQPFTBSE to support generic printer entries.
- The PING command enhanced to allow the use of the JQP printer name.
- Option for printer \$FILE to perform print line translation.  
Reference Control Table FLAGA, 8<sup>th</sup> parameter.
- Option to submit JCL after printing is successful for JQP printer \$FILE only.  
Reference Destination definition “Option Flags” 2<sup>nd</sup> set.
- Option to issue the following console command after each report is successfully printed.  
\$TO J(jobid),OUTGRP=grpID,NDISP=HOLD.  
Reference Destination definition “Option Flags” 3<sup>rd</sup> set.
- Option to use PCL commands to make duplicate overstrike lines BOLD.  
Reference Printer definition “Switch(s), 2<sup>nd</sup> set.
- Option to write a highlighted message to the system console when the FORM needs mounting on the JQP printer to print the selected report.  
Reference Printer definition “Switch(s)”, 2<sup>nd</sup> set.  
Option to send the JQP setup module 1STDD codes before and after the data set is printed.
- Option to use RACF password phrase.  
Reference the Control Table SECURE parameter.
- The filter feature has been enhanced to include status for TCP/IP printers, VTAM printers and destinations.
- Printer and destination definitions in “Display Mode” show the system default value in yellow.
- Administration menu screens have been modified to process all line commands.
- New option to bypass the Administration delete confirmation screen.  
Reference the User Table FLAG1(2) parameter.
- New option to bypass the Menu List screen for single item displays.  
Reference the User Table FLAG1(3) parameter.
- Support for IPV6 was added.
- Option to force the JQP trace graphic representation to ASCII has been added.  
Reference Destination definition “Option Flags” 3<sup>rd</sup> set.
- For printer \$FILE, new exit to customize the data set name allocated for the report.  
Reference Control table FLAG2(2) parameter.
- Prevents S106-E ABEND when the NEWCOPY command is issued for the module causing the JQP load library to take another extent. Previous JQP releases required the JQP load library be defined with zero secondary allocation. Now the JQP load library can be defined with a non-zero secondary allocation.
- New command added to send a ripple pattern to a printer.  
Reference the RIPPLE command.
- Pacing feature for TCP/IP printers has been added.  
Reference the Printer definition parameter IWAIT(2) and Control Table TCPIP(5) parameter.
- Destination parameters Max Lines and Re-queue Lines are increased from six to eight digits.

### JQP 3.1 Enhancements

- Creates the new SMF type-6 record statistical program.  
Reference Section 2.17 SMF Type 6 Listing Utility.
- Added new command to display the MacKinney Print Transform (MPT) Transform Work Queue.  
Reference the LIBRARYX command.
- Added option to put the initial JQP definition screen in "Display Mode" to prevent accidental update.  
Use the new JQP UPDATE command to toggle between "Update Mode" and "Display Mode".  
Reference User "Option Flags", first flag.
- Added option for processing reports with multiple copies. Currently, JQP prints all copies of a data set within a report before printing the next data set in the report. Using the new option, JQP prints all data sets within the report in a separate pass for each copy. Printer setup codes (when available) are sent before each copy prints. Separator pages (when requested) print for each copy.  
Reference Printer definition SWITCH parameter, first option.
- Added exit JQPFEX01 program to add DJDE statements before each printed data set of the report.  
Reference Destination definition FLAG2, fifth option.
- Added option to place the destination in an EDRAINED status when a printing error occurs.  
Reference Destination definition "Error Action" parameter.
- Moved the JQP internal task work area and JES I/O buffers above the line reducing the private space requirements to help prevent S878 ABENDs.
- Added repeat FIND command to Paging screens.
- Added Automatic Restart Manager (ARM) facility.  
Reference Control Table parameter ARM.
- Added a Line Command to the "Display Print Work Queue" screen JQPFDPQ to allow editing a destination or printer entry.
- Changed multiple line console command responses to MLWTO to keep all the lines together on the console and in the SYSLOG.  
Single line console command responses can now be assigned a routing code 1 to 16.  
Reference Control Table CNSL parameter, 2<sup>nd</sup> parameter.
- Option to write the JQP command output to the JQPLOG when JQP commands are issued from the console.  
Reference Control Table CNSL parameter, 3<sup>rd</sup> parameter.
- Option to assign a group name to the printer entry allowing all printers within a group to process at one time.  
Reference Printer Table PRTGRP parameter.
- Added option to control the method (RACF or JQPFDFPX table) used to determine the printers the user may access.  
Reference Control Table PXRACF and SECURE parameters.  
Reference User Table PXRACF parameter.
- Added feature to Export/Import JQP definitions between same JQP release regions.
- Added support for Printer Job Language (PJM).
- Added option to increase the I/O buffer size for TCP/IP printers.
- Added new report selection Job Name parameter.  
Reference Destination Table JOBNAME parameter.

### **JQP 3.0 Enhancements**

- Added support for Advanced Function Presentation (AFP) printer transforms. Requires the MacKinney Systems product MacKinney Print Transform (MPT).
- Email notification job name table has been added to limit email notification for a printer based upon job name. Reference JQPFDFEJ – Email Job Name Table.
- Added Raw option processing to separator exit JQPFPRS4.
- Improved the destination FAIL status codes descriptions. Added new destination printing status codes.
- Added new automatic restart table for FAIL-xx status codes. Reference JQPFTRST – Automatic Restart Table.
- Added field sensitive help for JQP screens.
- Changes the email subject line to include the printer action to cause the email to generate.
- Added VOLSER and SMS storage classes to dynamic allocation for temporary data sets
- Added two new destination line routines.
  1. Removes the SCS transparent character and following length byte from the data stream.
  2. Removes the SCS transparent character and following length byte and sends transparent data to the printer ASIS.
- B37 ABENDs for the LPD temporary data sets are detected preventing JQP from terminating.
- Added support to display JQP definitions using a filter. Reference the FILTER command.
- Added support to specify the VTAM APPLID on the JCL EXEC statement via PARM= parameter.

## Section I

### Installation of Pre-Generated System

JQP is a flexible product with many options. The JQP pre-generated system is a basic version of JQP and can be put up in minutes so you can see how the system works and use some of the basic features.

#### 1.1 JQP Installation

**Installations currently using JQP can skip to section 1.4 Migrating from Prior Releases.**

##### 1.1.1 Downloading the Product Libraries

JES Queue for Printers can be downloaded from the MacKinney Systems Web page at [www.mackinney.com](http://www.mackinney.com)

Unzip the file and follow the instructions on the JQP\_READ.ME file to obtain the installation files.

After you perform the preceding steps you have all the required product files and can continue with the installation.

##### 1.1.2 JQP VSAM File

Modify the JCL in member JQPFILE in the JQP source library and submit to create the JQP VSAM file.

The following is a list of RLS requirements for the JQP VSAM file used in a SYSPLEX environment.

1. VSAM Server region (SMSVSAM) is running on the SYSPLEX.
2. Requires SHR(2,3) for JQPFILE data set.
3. Add RLS=NRI to the JQPFILE DD statement.
4. Alter JQPFILE data set with LOG(NONE).
5. Alter JQPFILE data set with STORCLASS(VSAMRLS).

You can verify the RLS function is working properly by listing the catalog entry for the VSAM file.

There is an entry for "RLS IN USE -----(YES)".

**Note: Please schedule a backup of the JQP VSAM file similar to any other VSAM file in your environment.**

### 1.1.3 JQP Product Password

JQP requires a valid product password to successfully initialize. There are two options to supply JQP the product password, the Control Table JQPFDFCT and the PDS member \$INIT. One or both options can be utilized. JQP will use the PDS member \$INIT passwords first. In the event all passwords in the \$INIT PDS member fail, JQP will use the passwords specified in the Control Table JQPFDFCT.

#### **Control Table JQPFDFCT Option**

Customize the JQP module JQPFDFCT contained in your JQP source library.

Update with the supplied passwords. Parameters PWD1 through PWD6 contain one to six passwords supplied by the vendor. Six passwords are available to use the same Control Table (JQPFDFCT) with multiple CPUs or one CPU with multiple LPARS.

#### **PDS member \$INIT Option**

The JQPCNTL DD specifies the source PDS data set to contain the \$INIT member, reference section [1.1.8 JQP STARTUP](#). Customize the PDS member \$INIT with the product passwords. Each password keyword must start on a separate line and begin in column one. The following password keywords are available:

```
PWD1=product_password_1  
PWD2=product_password_2  
PWD3=product_password_3  
PWD4=product_password_4  
PWD5=product_password_5  
PWD6=product_password_6
```

Comment lines start with an asterisk "\*" character.

Note: Use the JQP command SHOW to display the JQP product passwords after JQP has successfully initialized.

### 1.1.4 JQP Table Assembly

Modify the JCL in member ASSEMBLE in the JQP source library and submit. Every step in the job must run. There must be no errors. **Note: All JQP modules must be linked with the RENT attribute.**

## 1.1.5 VTAM Definitions

Copy member APPLJQP from the JQP source library to the VTAM definition library creating a new member named APPLJQP.

This defines the JQP major node and application name to VTAM. This module needs no customization. MacKinney Systems recommends you use major node name APPLJQP and application name JQP; however, it is not required. When you want to give the application another name, the APPL= parameter in the control table (JQPFDFCT) must be changed.

Vary the new APPLJQP node active to VTAM with the following command:

```
V NET,ACT, ID=APPLJQP
```

## 1.1.6 Authorize JQP Load Library

The JQP load library must be APF-authorized. Failure to authorize these libraries results in a S047 ABEND.

Add the JQP load library to the list of APF-authorized libraries in the appropriate PROGxx (or IEAAPFxx) member in SYS1.PARMLIB.

When your list(s) of APF-authorized libraries are specified in the dynamic format (in a PROGxx member), refresh the APF list dynamically using the SETPROG or SET PROG=xx command. Optionally, the following command can be used to authorize the load library: SETPROG APF,ADD,DSNAME=your.JQP.LOADLIB,VOLUME=volume

When your list(s) of APF-authorized libraries are specified in the static format (in IEAAPFxx members), schedule an z/OS IPL for the APF-authorization to take effect.

## 1.1.7 Define JQP to RACF

JQP must be defined to RACF (or other external security manager such as ACF2 or Top Secret). This identifies your JQP USERID to RACF and provides it with the proper authorization regarding OMVS.

When using RACF's ICHRIN03 or the STARTED resource profile to control the USERID associated with PROC's, insure your JQP PROC is associated with the USERID created in this step. Otherwise, the USERID defaults to the name of the PROC.

Modify the JCL in module JQPRACF in your JQP source library and submit.

```
//JQPRACF JOB MACKINNEY,CLASS=A,MSGCLASS=X,NOTIFY=userid      <-- note1
//*
//STEP1      EXEC   PGM=IKJEFT01,DYNAMNBR=20
//SYSTSPRT   DD     SYSOUT=*
//SYSLBC DD DSN=SYS1.BROADCAST,DISP=SHR
//*****
//SYSTSIN    DD     *
ADDUSER JQP  DFLTGRP(SYS1) +                                <-- note2
              NAME('MacKinney JQP  ') +
              OWNER(SYS1)                                  <-- note3
ALTUSER JQP  OMVS(UID(1) )                                  <-- note4
SETROPTS RACLIST(FACILITY) REFRESH
```

Note 1: Replace *userid* with a TSO USERID with sufficient authority to perform indicated RACF functions.

Note 2: Replace 'JQP' with the name of your JQP procedure.  
Replace "SYS1" with a valid group id.

Note 3: Replace "SYS1" with a valid USERID owning the RACF user.

Note 4: An OMVS Segment has always been required for a z/OS program to use TCP/IP. On z/OS releases prior to 2.1, it was possible to supply default OMVS settings using the BPX.DEFAULT.USER facility, allowing users without an OMVS Segment to use TCP/IP. However, IBM dropped the ability to use BPX.DEFAULT.USER in z/OS 2.1.

**Without an OMVS Segment, an ERROR NO:156 results when attempting to start a TCP/IP connection.**

The UID number can vary based upon your installation requirements.

## 1.1.8 JQP STARTUP

Now you are ready to start JQP. Modify the JCL in module JQP in your JQP source library and submit.

To startup JQP, submit a job similar to the following:

```
//JQP      JOB (ACCT), 'MACKINNEY/JQP', CLASS=A, MSGCLASS=X
//STEP1    EXEC PGM=JQPMINIT, REGION=1M, TIME=1440
//STEPLIB  DD DSN=your.JQP.LOADLIB, DISP=SHR           ← change/required, do not remove
//SYSPRINT DD SYSOUT=*
//SYSABEND DD SYSOUT=*
//SYSOUT   DD SYSOUT=*
//SYSTCPD  DD DSN=your.TCPIP.DATA, DISP=SHR           ← change
//JQPFILE  DD DSN=your.JQPFILE.MASTER, DISP=SHR       ← change
//JQPCNTL  DD DSN=your.JQP.srclib, DISP=SHR           ← change
//*
/* THE JQPLOG OUPUT STATEMENT IS USED TO DETERMINE THE OUTPUT CLASS
/* AND OTHER CHARACTERISTICS OF THE JQPLOG. THE JQPLOG WILL BE
/* DYNAMICALLY ALLOCATED.
/* DO NOT CODE A JQPLOG DD
//JQPLOG   OUTPUT CLASS=A
/* THE JQPSTAT OUPUT STATEMENT IS USED TO DETERMINE THE OUTPUT CLASS
/* AND OTHER CHARACTERISTICS OF THE JQPSTAT. THE JQPSTAT WILL BE
/* DYNAMICALLY ALLOCATED.
/* THE JQPSTAT IS CREATED BY THE JQP "STATS *,JQPSTAT" COMMAND.
/* DO NOT CODE A JQPSTAT DD
//JQPSTAT  OUTPUT CLASS=A
```

JQP may also run as a started task. Create a member in your PROCLIB using the example below and issue a start for the new procedure (i.e. S JQP).

```
//JQP      PROC OUTC=X
//STEP1    EXEC PGM=JQPMINIT, REGION=1M, TIME=1440
//STEPLIB  DD DSN=your.JQP.LOADLIB, DISP=SHR           ← change/required, do not remove
//SYSPRINT DD SYSOUT=&OUTC
//SYSABEND DD SYSOUT=&OUTC
//SYSOUT   DD SYSOUT=&OUTC
//SYSTCPD  DD DSN=your.TCPIP.DATA, DISP=SHR           ← change
//JQPFILE  DD DSN=your.JQPFILE.MASTER, DISP=SHR       ← change
//JQPCNTL  DD DSN=your.JQP.srclib, DISP=SHR           ← change
//*
/* THE JQPLOG OUPUT STATEMENT IS USED TO DETERMINE THE OUTPUT CLASS
/* AND OTHER CHARACTERISTICS OF THE JQPLOG. THE JQPLOG WILL BE
/* DYNAMICALLY ALLOCATED.
/* DO NOT CODE A JQPLOG DD
//JQPLOG   OUTPUT CLASS=&OUTC
/* THE JQPSTAT OUPUT STATEMENT IS USED TO DETERMINE THE OUTPUT CLASS
/* AND OTHER CHARACTERISTICS OF THE JQPSTAT. THE JQPSTAT WILL BE
/* DYNAMICALLY ALLOCATED.
/* THE JQPSTAT IS CREATED BY THE JQP "STATS *,JQPSTAT" COMMAND.
/* DO NOT CODE A JQPSTAT DD
//JQPSTAT  OUTPUT CLASS=&OUTC
```

- NOTE: TIME=1440 allows JQP to run 24 hours without timing out.
- NOTE: The SYSTCPD data set is only required for TCP/IP printing. SYSTCPD explicitly identifies the data set used to obtain the parameters defined by TCPIP.DATA. The data set may be any sequential data set or a member of a partitioned data set (PDS). For more information please see "Understanding TCP/IP Data Set Names" in the Configuration Guide.
- NOTE: Optionally, specify the VTAM APPLID on the EXEC statement via the PARM= parameter. Example, the following statement instructs JQP to use the VTAM APPLID of JQPTEST.  
// EXEC PGM=JQPMINT, REGION=1M, TIME=1440, PARM=JQPTEST
- NOTE: Abend-AID installations add the statement //ABNLIGNR DD DUMMY to suppress Abend-AID.

When JQP is successfully started, the following message displays on the console:

```
JQPMINIT01 ** JQP Vx.x INITIALIZATION COMPLETE, APPLID=applid **
```

## 1.1.9 MIGRATE COMMAND

Issue the “MIGRATE ALL” command through the JQP console interface, reference section [1.3 Using JQP from the System Console](#). Check the output from the MIGRATE command in the JQPLOG SYSOUT data set. The following messages should appear:

```
JQPCMIGR05 ** MIGRATE INITIALIZATION STARTING **                USER=CONSOLE
JQPCMIGR05 ** MIGRATE INITIALIZATION COMPLETE **                USER=CONSOLE
JQPCNEWC01 ** NEW COPY OF MODULE JQPFDHAX LOADED **            USER=CONSOLE
.
.
JQPCNEWC01 ** NEW COPY OF MODULE JQPFDHM6 LOADED **            USER=CONSOLE
JQPCMIGR03 ** TABLE JQPFDFPH MIGRATION STARTING **            USER=CONSOLE
JQPCMIGR04 ** JQPFDFPH ENTRY T01A      MIGRATED **            USER=CONSOLE
JQPCMIGR04 ** JQPFDFPH ENTRY P01      MIGRATED **            USER=CONSOLE
JQPCSTRT06 ** PRINTER P01      STARTED **                    USER=CONSOLE
JQPCMIGR04 ** JQPFDFPH ENTRY P02      MIGRATED **            USER=CONSOLE
JQPCSTRT06 ** PRINTER P02      STARTED **                    USER=CONSOLE
JQPCMIGR04 ** JQPFDFPH ENTRY P03      MIGRATED **            USER=CONSOLE
JQPCSTRT06 ** PRINTER P03      STARTED **                    USER=CONSOLE
JQPCMIGR04 ** JQPFDFPH ENTRY P04      MIGRATED **            USER=CONSOLE
JQPCSTRT06 ** PRINTER P04      STARTED **                    USER=CONSOLE
JQPCMIGR04 ** JQPFDFPH ENTRY IP01     MIGRATED **            USER=CONSOLE
JQPCSTRT06 ** PRINTER IP01     STARTED **                    USER=CONSOLE
JQPCMIGR04 ** JQPFDFPH ENTRY IP02     MIGRATED **            USER=CONSOLE
JQPCSTRT06 ** PRINTER IP02     STARTED **                    USER=CONSOLE
JQPCMIGR04 ** JQPFDFPH ENTRY IP03     MIGRATED **            USER=CONSOLE
JQPCSTRT06 ** PRINTER IP03     STARTED **                    USER=CONSOLE
JQPCMIGR03 ** TABLE JQPFDFPH MIGRATION COMPLETE **          USER=CONSOLE
JQPCMIGR03 ** TABLE JQPFDFDS MIGRATION STARTING **          USER=CONSOLE
JQPCMIGR04 ** JQPFDFDS ENTRY P01      MIGRATED **            USER=CONSOLE
JQPCSTRT10 ** DESTINATION P01      STARTED, PRINTER=P01      **    USER=CONSOLE
JQPCMIGR04 ** JQPFDFDS ENTRY P02      MIGRATED **            USER=CONSOLE
JQPCSTRT10 ** DESTINATION P02      STARTED, PRINTER=P02      **    USER=CONSOLE
JQPCMIGR04 ** JQPFDFDS ENTRY P02X     MIGRATED **            USER=CONSOLE
JQPCSTRT10 ** DESTINATION P02X     STARTED, PRINTER=P02      **    USER=CONSOLE
JQPCMIGR04 ** JQPFDFDS ENTRY P03      MIGRATED **            USER=CONSOLE
JQPCSTRT10 ** DESTINATION P03      STARTED, PRINTER=P03      **    USER=CONSOLE
JQPCMIGR04 ** JQPFDFDS ENTRY P03X     MIGRATED **            USER=CONSOLE
JQPCSTRT10 ** DESTINATION P03X     STARTED, PRINTER=P03      **    USER=CONSOLE
JQPCMIGR04 ** JQPFDFDS ENTRY P04      MIGRATED **            USER=CONSOLE
JQPCSTRT10 ** DESTINATION P04      STARTED, PRINTER=P04      **    USER=CONSOLE
JQPCMIGR04 ** JQPFDFDS ENTRY IP01     MIGRATED **            USER=CONSOLE
JQPCSTRT10 ** DESTINATION IP01     STARTED, PRINTER=IP01     **    USER=CONSOLE
JQPCMIGR04 ** JQPFDFDS ENTRY IP01L    MIGRATED **            USER=CONSOLE
JQPCSTRT10 ** DESTINATION IP01L    STARTED, PRINTER=IP01     **    USER=CONSOLE
JQPCMIGR03 ** TABLE JQPFDFDS MIGRATION COMPLETE **          USER=CONSOLE
JQPCMIGR03 ** TABLE JQPFDFUS MIGRATION STARTING **          USER=CONSOLE
JQPCMIGR04 ** JQPFDFUS ENTRY OPERATOR MIGRATED **            USER=CONSOLE
JQPCMIGR04 ** JQPFDFUS ENTRY SYSTEM  MIGRATED **            USER=CONSOLE
JQPCMIGR04 ** JQPFDFUS ENTRY USER    MIGRATED **            USER=CONSOLE
JQPCMIGR03 ** TABLE JQPFDFUS MIGRATION COMPLETE **          USER=CONSOLE
JQPCMIGR03 ** TABLE JQPFDFPT MIGRATION STARTING **          USER=CONSOLE
JQPCMIGR04 ** JQPFDFPT ENTRY IDON     MIGRATED **            USER=CONSOLE
JQPCMIGR03 ** TABLE JQPFDFPT MIGRATION COMPLETE **          USER=CONSOLE
```

Note: The following messages appear after JQP is started until the MIGRATE command is issued.

```
JQPRVSR01 ** JQPFILE ERROR, RC=08, RS=74, FUN=POINT **
JQPRVSR01 ** JQPFILE ERROR, RC=08, RS=74, FUN=READ NEXT **
```

## 1.2 Installation Verification

1. JQP is now installed and ready for use.
2. Start a session with JQP from your terminal using the following command:

```
LOGON APPLID(JQP)
```

When you do not get the JQP LOGON screen on your terminal, try one of the following commands:

Local SNA terminals:           LOGON APPLID(JQP) LOGMODE(D4A32782)

Remote SNA terminals:       LOGON APPLID(JQP) LOGMODE(D4C32782)

NON-SNA terminals:           LOGON APPLID(JQP) LOGMODE(D4B32782)

The JQP LOGON screen displays on your terminal.

```

JQPFILH x.x  JES QUEUE FOR PRINTERS                               Term: T01A

Please enter your userid and password

USER ID  : _____
PASSWORD : _____

                               MacKinney Systems
                               JES Queue for Printers
                JJJJJJJJJ  QQQQQQQQQQQQ  PPPPPPPPPPP
                   JJ  QQ          QQ  PP          PP
                   JJ  QQ          QQ  PP          PP
                   JJ  QQ          QQ  PPPPPPPPPPP
                JJ  JJ  QQ      QQ  QQ  PP
                JJ  JJ  QQ      QQ  QQ  PP
                JJJJJJ  QQQQQQQQQQQQ  PP
  
```

3. Enter a user-id of SYSTEM, password of SYSTEM and press the ENTER key. This user-id has ADMIN authorization.

The Main Menu screen displays.

```

JQPFDISL x.x.x  JES QUEUE FOR PRINTERS                               User:SYSTEM  Term:T01A
===> _____

1: Display Print Work Queue (Active)   16: Keys, PFkeys Currently Set
2: Display Destinations                17: LibraryH, Printer Groups
3: Display VTAM Printers               18: LibraryM, Logon Macro Groups
4: Display TCP/IP Printers             19: LibraryP, Terminals and Printers
5: Display VTAM Terminals             20: LibraryQ, Print Work Queue
6: Display Users                      21: LibraryS, Destinations
7: Display Print Work Queue (All)     22: LibraryT, JQP Active Tasks
8: Display Print Transform Members     23: LibraryU, Users
                                       24: LibPX, Terminals and Printers Ext.
                                       25: LibQX, Print Work Queue Extended
                                       26: Show, JQP Control Parameters
12: Export Definitions                27: LibraryC, Commands and Security
13: Import Definitions                28: LibraryF, LPD Control File
                                       29: Email, Email Status
                                       30: LibraryR, Automatic Restart Table
                                       31: LibraryJ, Email Job Name Table
                                       32: LibraryX, Transform Work Queue
                                       99: Logoff

PF3-LOGOFF  PF1-HELP
  
```

4. Define the VTAM printer for JQP to use. When only using TCP/IP printers, skip to step 5. On the command line enter “3” and press the ENTER key.

The JQPFDIVP screen displays.

```
JQPFDIVP          JES QUEUE FOR PRINTERS
====>

```

PRINTER	STATUS	DESCRIPTION	VTAM STATUS	FORM
P01	IDLE		CLOSED	STD
P02	IDLE		CLOSED	STD
P03	IDLE		CLOSED	STD
P04	IDLE		CLOSED	STD

```

-- End of Display -- (Number of Items=4      )

Commands: S=Select  D=Delete  A=Add  1=Start  2=Stop  4=Trace  7=Force
PF1-HELP  PF3-END   PF7-BACKWARD PF8-FORWARD PF2-REFRESH

```

- 4a. Enter the letter “A” next to the printer P01 and press the ENTER key.

The JQPF DIXV screen displays.

```
JQPF DIXV          JES QUEUE FOR PRINTERS                               Mode: Add
====>

```

```

Printer =====> _____ Printer Group =====> _____
Description =====> _____
SCS,TR =====> _____
Status =====> STOPPED  CLOSED  ??????  Trace Facility ==> OFF
Form =====> STD
Logmode =====> _____
Priority =====> 2
Istatus =====> I
Release =====> N 000
Buffer Size =====> 2
Form Feed Seq. ==> 0C0D
New Line Seq. ==> 15
Switch(s) =====> 00000000 00000000 00000000
Separator Exit ==> -
GDDM Class =====> -
Email Notify =====> - - - - -
Email TO: =====> _____

```

```

Commands: 1=Start  2=Stop  4=Trace  7=Force                               Press ENTER to update
PF1-HELP  PF3-END   PF2-DISPLAY

```

- 4b. Enter the printer’s VTAM NETNAME in the Printer field and press the ENTER key to add the printer.

Screen JQPF DIXV redisplay with message “JQPGMENU04 \*\* PRINTER *printer* SUCCESSFULLY ADDED \*\*\*”. Add additional printers now or press PF3(End) to return to the JQPFDFDIVP screen.

Press the PF3(End) key to return to the Main Menu screen.

5. Define the TCP/IP printer for JQP to use. When only using VTAM printers, skip to step 6. On the command line enter “4” and press the ENTER key.

The JQPFDIIP screen displays.

```
JQPFDIIP      JES QUEUE FOR PRINTERS
====>
-----
PRINTER  STATUS  TCP/IP HOST NAME;PORT  DESCRIPTION  FORM
-----
- IP01    192.168.255.49;515  STD
- IP02    192.168.255.49;515  STD
- IP03    192.168.255.50;515  STD
- -- END OF DISPLAY -- (NUMBER OF ITEMS=3 )

Commands: S=Select  D=Delete  A=Add  1=Start  2=Stop  4=Trace  7=Force
PF1-HELP  PF3-END   PF7-BACKWARD  PF8-FORWARD  PF2-REFRESH
```

- 5a. Enter the letter “A” next to the printer IP01 and press the ENTER key.

The JQPFDIIXI screen displays.

```
JQPFDIIXI      JES QUEUE FOR PRINTERS
====>
-----
Printer =====> _____  Printer Group ==> _____
Description =====> _____
Status =====> _____  Trace Facility ==> OFF
Host Name ==> 192.168.255.49
Queue Name =====> TEXT1
Port Number =====> 515  Bind LPR Port ==> 1
Form =====> STD  Separator Exit ==>
TCP Wait Time(s)=> 0 0 0  PJI Options =====> 00000000 0
Priority =====> 2  Istatus =====> A
Buffer Size =====> 4
Form Feed Seq. ==> 0C0D  New Line Seq. ==> 0D0A
Switch(s) =====> 00000000 00000000 00000000
LPD Control File=> _____

Email Notify =====> - - - - -
Email TO: ==> _____
MPT Support =====> 0 _____

Commands: 1=Start  2=Stop  4=Trace  7=Force  Press ENTER to update
PF1-HELP  PF3-END   PF2-DISPLAY
```

- 5b. Enter the name to assign to the TCP/IP printer in the Printer field. For LPD type printers, enter the TCP/IP host name for the LPD server in the “Host Name” field and the LPD printer queue name in the “Queue Name” field. For “direct/open socket” type printers, enter the TCP/IP host name for the printer in the “Host Name” field and the port number assigned to the open socket (normally 9100) in the “Port Number” field. Press the ENTER key to add the printer.

Screen JQPFDIIXI redisplay with message “JQPGMENU04 \*\* PRINTER *printer* SUCCESSFULLY ADDED \*\*”. Add additional printers now or press PF3(End) to return to the JQPFDFDIIP screen.

Press the PF3(End) key to return to the Main Menu screen.

6. Define the JES destination for JQP to use. On the command line enter “2” and press the ENTER key.

The JQPFIDDS screen displays.

```
JQPFIDDS      JES QUEUE FOR PRINTERS
====> _____

      DEST      STATUS      DESCRIPTION      PRINTER      WIDTH      MAX      PRINTER
      _____      _____      _____      _____      _____      _____      _____
      IP01      WAITING      _____      IP01          255      10,000      HP2L
      IP01L      WAITING      _____      IP01          132      10,000      HP2P
      P01        WAITING      _____      P01           132      10,000
      P02        WAITING      _____      P02           132      10,000
      P02X       WAITING      _____      P02           132      10,000
      P03        WAITING      _____      P03           132      10,000
      P03X       WAITING      _____      P03           132      10,000
      P04        WAITING      _____      P04           132      10,000
      -- END OF DISPLAY -- (NUMBER OF ITEMS=8      )

Commands: S=Select  D=Delete  A=Add  1=Start  3=Restart  5=Drain  6=Halt
PF1-HELP  PF3-END    PF7-BACKWARD  PF8-FORWARD  PF2-REFRESH
```

6a. Enter the letter “A” next to the destination IP01 and press the ENTER key.

The JQPFIDIXS screen displays.

```
JQPFIDIXS      JES QUEUE FOR PRINTERS      Mode: Add
====> _____

Destination =====> _____      Dest Selection =====> _____
Printer Name =====> IP01          XWTR Selection =====> _____
Status =====> WAITING          Class Selection =====> _____
Translate Table => JQPFTTP1        Lines Selection =====> 00010000
Width =====> 00132          JobName Selection ==> _____
Description =====> _____
Separator Page ==> 1          Error Action =====> 1
Form Feed =====> N          Istatus =====> A
Setup Options ==> _____ Y _____      Default FCB =====> _____
Option Flags =====> _____ : _____ | _____ : _____ | _____ : _____
Line Routine(s) => 00 00 00 00 00 00 00 00
Raw =====> 0
CPI =====> 00
Disposition =====> _____
Requeue Options => 000000
DBCS Option(s) ==> N _____ K OE _____ OF _____

Commands: 1=Start  5=Drain  6=Halt      Press ENTER to update
PF1-HELP  PF3-END    PF2-DISPLAY
```

6b. Enter the JES destination name in the Destination and “Dest Selection” fields. For VTAM type printers, enter the VTAM NETNAME of the printer in the Printer Field. For TCP/IP type printers, enter the name assigned to the TCP/IP printer in the printer field. For this pre-generated system, we recommend you make the Destination and Printer name the same. Press the ENTER key to add the destination.

Screen JQPFIDIXS redisplay with message “JQPGMENU04 \*\* DESTINATION “*destination*” SUCCESSFULLY ADDED \*\*\*”. Add additional destinations now or press PF3(End) to return to the JQPFIDIDS screen. Press the PF3(End) key to return to the Main Menu screen.

7. Select and change a report's DESTID in the JES output queue to the destination name defined above. JQP selects and prints the report.

The pre-generated system includes three user-ids and passwords used for further testing.

<u>USERID</u>	<u>PASSWORD</u>	<u>AUTHORIZATION</u>
SYSTEM	SYSTEM	ADMIN
OPERATOR	OPERATOR	OPERATOR
USER	USER	USER

The different authorizations allow each user access to certain JQP commands. In the pre-generated system ADMIN and OPERATOR have access to all commands; USER has access to all commands except system commands like SHUT and DISCONN.

This is the basic JQP pre-generated system. Many of the options and procedures described in the initial verification section can be modified by changing the parameters outlined in the CUSTOMIZATION and TABLE REFERENCE sections.

Please review the CUSTOMIZATION section in its entirety before actually beginning modifications. When you have additional questions, please contact MacKinney Systems.

This completes the formal installation verification on the pre-generated system.

## 1.3 Using JQP from the System Console

Certain commands (e.g., LIBQ, SHUT, etc.) are issued from the system console.

JQP interacts with z/OS console users via the REPLY console command (R) as well as the MODIFY (F) command.

JQP Control Table (JQPFDCT) parameter "CNSL=WTOR|MODIFY" specifies the desired communications method. The default is CNSL=MODIFY.

### Using the REPLY (R) command and WTOR's:

When you specify CNSL=WTOR and wish to communicate with JQP via the console, reply to the JQP WTOR appearing on the console for the duration of the region's life.

Specifying CNSL=WTOR results in a message similar to the following:

```
*09 JQPROC01 ** JQP CONSOLE COMMAND INTERFACE **
```

To issue the JQP "SHOW" command when CNSL=WTOR is specified, enter the following on the console:

```
R 09,SHOW      or 9 SHOW
```

After JQP replies to this command, it issues the following WTOR:

```
*10 JQPROC01 ** JQP CONSOLE COMMAND INTERFACE **
```

Note the number changes and it is not necessarily the next sequential number after the one you used when you replied to the previous WTOR.

### Using the MODIFY command:

When you specify CNSL=MODIFY in the JQP Control Table (JQPFDCT), JQP issues the message JQPMINIT01 when it is up. It does not leave a WTOR prompt on the console.

To issue the "SHOW" command, for example, enter the following:

```
F JQP,SHOW
```

where JQP is the name of the job or started task of the JQP region where "SHOW" executes. Note, like the WTOR, you can only issue one command at a time.

**NOTE: The MODIFY command requires the JQP load library to be APF authorized.**

## 1.4 Migrating from Prior Releases

The install for this JQP release requires new source and object module libraries. You do NOT have to re-input most of your tables. Just copy them to the new source library and assemble them with the new macros. Please follow the follow steps in the order presented.

1. Get the product libraries. See Section [1.1.1 Downloading the Product Libraries](#).
2. Copy the following modules from your existing JQP source library to the new release source library.

JQPFDFCF	LPD Control File Group Table (JQP 2.3 and above)
JQPFDFACT	Control Table
JQPFDFEJ	Email Job Name Table (JQP 3.0 and above)
JQPFDFMC	Logon Macro Table
JQPFDFNT	Font Name Table (JQP 3.0 and above)
JQPFDFTP	Print Transform Member Table (JQP 3.0 and above)
JQPFDFPX	Printer Group Table
JQPFTBSE	Printer Security Table (JQP 2.5 and above)
JQPFTBST	Automatic Restart Table (JQP 3.0 and above)
3. When you have made 'In-House' modifications to any of the following modules, you must re-customize them in your new release source library.

JQPFDFCM	Command Table
JQPFDFMS	Message Table
JQPFDHxx	Help Screens
JQPFDIxx	Display screens
JQPFTTMX	Terminal Translate Table
JQPFTTP#	Printer Translate Table (where # is 1 through 6)
JQPFRS#	Separator Exit (where # is 1 through 4)
JQPFRSX	SETUP module selection exit

Note: Pre JQP 2.5 installations only. The following Printer Separator Page Exit modules have been renamed.

JQPRRS#	renamed to	JQPFPRS# (where # is 1 through 4)
JQPRRSX	renamed to	JQPFPRSX
4. Pre JQP 2.4 installations only. Control Table (JQPFDFACT) parameters BUFDSL, BUFXDS, BUF128, BUF64, BUF2K and BUF4K have been replaced by the Control Table JQPFDFACT parameter [BUFPRTS](#).
5. Pre JQP 2.5 installations only. Control Table (JQPFDFACT) parameter TIME is now obsolete and can be removed.
6. Pre JQP 3.4 installations only. Control Table (JQPFDFACT) parameter HIREQ is replaced by the [IREQ](#) parameter.
7. Assemble all the modules in step 2 and any module you have customized in step 3 using the ASSEMBLE member in your new release source library.

**Note: All JQP modules must be linked with the RENT attribute.**
8. Copy non-MacKinney or any modified Printer Setup modules from your existing JQP source and load library to the new release source and load library. For JQP v2.2 or above installations, no assemble is required.

**Note: Pre JQP 2.2 installations only. The format of the Printer Setup modules has changed.**  
**Pre JQP v2.2 modules must be modified and assembled, reference [2.8.2 Setup Module Conversion](#).**  
**All Printer Setup modules must be linked with the RENT attribute.**
9. Modify and execute the JCL in member JQPMFILE to create a new JQP VSAM file and prepare the file for this release.
10. Create a new JQP JCL procedure from your existing JQP JCL procedure.

**Note: Be sure the new procedure utilizes the new JQP VSAM file, source and load libraries.**  
Pre JQP 2.5 installations only. The JCL to execute JQP has changed. The JQPSTAT OUTPUT statement has been added. Use the JCL in member JQP as an example. See Section [1.1.8 JQP Startup](#)
11. Pre JQP 2.4 installations only. The VTAM APPLJQP definition has changed. AUTH=(ACQ,SPO) is now required. Use the APPL definition in APPLJQP as an example.
12. Start the new version of JQP.
13. Issue the "NEWCOPY JQPFDH\*" command through the JQP console interface to load the JQP help screens.
14. You are ready to test the new release of JQP.

## 1.4.1 JQP Maintenance Information

3.4.1	Applied	
3.4.2	Applied	
3.4.3	Applied	
3.3.44	Applied	
3.3.45	Applied	Reference JQPFDFCF routine CMDUO.
3.3.46	Applied	
3.3.47	Applied	Reference JQPFDFCF SWITCH parameter 4 <sup>th</sup> option.
3.3.48	Applied	Reference JQPFDFCF SWITCH parameter 3 <sup>rd</sup> option.
3.3.49	Applied	

## 1.5 Migrating Current Release to a New Maintenance Level

Member JQPMINIT is the only load module changed on the installation tape. Members beginning with JQP\$ in the source library may have changed. The migration consists of the following steps:

1. Get the product libraries. See Section [1.1.1 Downloading the Product Libraries](#).
2. Make a backup copy of the JQP load library; optional, but recommended.
3. Copy the following load library members from the new JQP load library to your existing JQP load library .
  - 3a. JQPMDFDS, JQPMDFPH, JQPMDFPT, JQPMDFUS
  - 3b. JQPMFILE, JQPMINIT, JQPMLIST, JQPMMIGR, JQPMSMF6
  - 3c. JQPRTCPT
  - 3d. JQPRCGSK, JQPRCCD1, JQPRCFLG, JQPRCMSG
- 3e. JQPRINPI**
4. Make a backup copy of the JQP source library; optional, but recommended.
5. Copy the following source library members from the new JQP source library to your existing JQP source library .
  - 5a. Copy all members beginning with JQP\$.
  - 5b. Copy all members beginning with JQPFDH.
  - 5c. Copy all members beginning with JQPFDI.
  - 5d. Copy members JQPFDFCM and JQPFDFMS.  
Make any custom changes to these source members. Assemble and link the source members.
6. Assemble and link the JQPFDFCT Control Table.
7. After the new JQP maintenance level is started, issue the command “NEWCOPY JQPFDH\*” command to load any changes to the JQP help screens.
8. The migration is now complete. No additional tables need reassembling. Delete the new JQP source and load libraries this migration created.



## 2.2 Printer Translate Tables

JQP, by default, tries to prevent printer errors by not sending certain characters to the printer. Each print character is translated against an internal table to determine if the character is a valid printable character. For printers with more advanced features, this may be too restrictive. To change the internal table, modify one of the six translate table members (JQPFTTP1 through JQPFTTP6) provided or create a new member to define in the Destination parameter “Translate Table”. Each printer translate table contains a 256 byte character translate table. Each byte represents its corresponding HEX character. Example, byte '00' represents a hex '00'. Byte '64' decimal ('40' in hex) represents a hex '40' or a space. The value at the location in the table is the value JQP uses to print the character. Most values in the table are x'40' or spaces because most hex characters are non-printable. To change JQP from printing a space for a hex '72', find the value at x'72' in the table and change it from a '40' to a '72'.

**Note:** After changing tables JQPFTTP1 through JQPFTTP6, assemble and recycle JQP to make the changes active.

Note: When no translation of the print data stream is needed, specify “Translate Table”=JQPFTTP0 in the Destination entry.

Note: Having trouble finding the correct hexadecimal character to use, reference [6.6 Printing the Wrong Character](#).

### VTAM printers

Printer translate tables are used to prevent printing errors. Translation tables one, two and three (JQPFTTP1, JQPFTTP2 and JQPFTTP3) are set up for this purpose. As provided, each table is identical.

### TCP/IP printers

Printer translate tables are used to translate EBCDIC characters to ASCII. Translation tables four, five and six (JQPFTTP4, JQPFTTP5 and JQPFTTP6) are set up for this purpose. As provided, each table is identical.

### Translate tables provided

JQPFTTP0	No translation
JQPFTTP1	For VTAM type printers
JQPFTTP2	For VTAM type printers
JQPFTTP3	For VTAM type printers
JQPFTTP4	For TCP/IP type printers
JQPFTTP5	For TCP/IP type printers
JQPFTTP6	For TCP/IP type printers
JQPFT35F	37 (EBCDIC) to 863 (PC Canada)
JQPFT4E4	37 (EBCDIC) to 1252 (MS Windows, Latin-1)
JQPFTTA1	420 (EBCDIC Arabic) to 864 (ASCII Arabic) Round Trip, Customized Alternate
JQPFTTA2	420 (EBCDIC Arabic) to 864 (ASCII Arabic)
JQPFTTH1	424 (EBCDIC Hebrew) to 1255 (MS Windows, Hebrew) Round Trip Algorithm 2

## 2.3 Exits

The following JQP exits are available:

[JQPFPRS1](#) Printer separator exit number one.  
[JQPFPRS2](#) Printer separator exit number two.  
[JQPFPRS3](#) Printer separator exit number three.  
[JQPFPRS4](#) Printer separator exit number four.  
[JQPFPRS5](#) Printer separator exit number five.

[JQPFEX01](#) Adds DJDE statements and other similar type statements before each printed data set of the report.  
[JQPFEX02](#) Customize the data set name allocated for printer \$FILE.  
[JQPFEX03](#) Insert lines or data before the JQP setup module.  
[JQPFEX04](#) Change the JQP destination record before printing starts.

[JQPFMPTX](#) MacKinney Print Transform (MPT), transform member selection.

[JQPFPRSX](#) JQP setup module selection.

**All JQP exits must be linked with the RENT attribute.  
Any changes to the exits are the responsibility of your installation!**

### 2.3.1 Separator Page Exit

JQP provides a standard separator page for printers with a printer width of 80 and printers with a width greater than 80. To customize the standard separator page, change the separator exit program JQPFPRS1, JQPFPRS2, JQPFPRS3, JQPFPRS4 or JQPFPRS5 source.

After changing the exit source, assemble, link, and new copy the separator exit to make the changes active. The separator page exit must be linked with the RENT attribute.

The communication area passed from JQP to the separator page exit is in member JQPBSEP.

Set the JQP printer definition “Separator Exit” parameter to the desired Separator Page Exit number.

Note: The font size on the separator page is determined by the PCL codes in the setup module. When the PCL code for portrait is found, little letters are used. When the PCL code for landscape is found, big letters are used. If neither portrait nor landscape PCL codes are found, the size of the letters is determined by the “Width” parameter in the Destination entry. Small letters are used when the “Width” parameter is equal to 80 and large letters are used when the “Width” parameter is greater than 80.

**Any changes to the separator page exit are the responsibility of your installation.**

## 2.3.1.1 Separator Page Exit JQFFPRS1 Sample Output

Module JQFFPRS1 separator page sample output:

```

MACKINNEY SYSTEMS - JES QUEUE FOR PRINTERS

DDDDDDDDDD LL MM MM 11 AAAAAAAAAA BBBB BBBB CCCCCCCCC
DDDDDDDDDD LL MMM MM 111 AAAAAAAAAA BBBB BBBB CCCCCCCCC
DD DD LL MMM MMM 1111 AA AA BB BB CC CC
DD DD LL MM MM MM MM 11 AA AA BB BB CC
DD DD LL MM MMM MM 11 AA AA BB BB CC
DD DD LL MM MM MM 11 AAAAAAAAAA BBBB BBBB CC
DD DD LL MM MM 11 AAAAAAAAAA BBBB BBBB CC
DD DD LL MM MM 11 AA AA BB BB CC
DD DD LL MM MM 11 AA AA BB BB CC
DD DD LL MM MM 11 AA AA BB BB CC
DDDDDDDDDD LLLLLLLLLLLL MM MM 1111111111 AA AA BBBB BBBB CCCCCCCCC
DDDDDDDDDD LLLLLLLLLLLL MM MM 1111111111 AA AA BBBB BBBB CCCCCCCCC

JJJJJJJJJJ 000000000 BBBB BBBB 000000000 000000000 333333333 77777777777 999999999
JJJJJJJJJJ 00000000000 BBBB BBBB 00000000000 00000000000 33333333333 77777777777 99999999999
JJ JJ OO OO BB BB 00 0000 00 0000 33 33 77 99 99
JJ JJ OO OO BB BB 00 00 00 00 00 00 33 77 99 99
JJ JJ OO OO BB BB 00 00 00 00 00 00 33 77 99 99
JJ JJ OO OO BBBB BBBB 00 00 00 00 00 00 3333333 77 99999999999
JJ JJ OO OO BBBB BBBB 00 00 00 00 00 00 3333333 77 99999999999
JJ JJ OO OO BB BB 00 00 00 00 00 00 33 77 99
JJ JJ OO OO BB BB 0000 00 0000 00 33 77 99
JJ JJ OO OO BB BB 000 00 000 00 33 77 99
JJJJJJJJ 00000000000 BBBB BBBB 00000000000 00000000000 33333333333 77 99999999999
JJJJJJ 0000000000 BBBB BBBB 0000000000 0000000000 333333333 77 9999999999

* START 11/10/2003 15:20:51 JOBNAME:DLM1ABC JOBID:JOB00379 PRINTER:LPD1
* OWNER:DLM1 ROOM: XWTR: FORM:STD CLASS:Q FCB:****
* PROGRAMMER:IEBGENER DESTINATION:LPD1 ACCOUNTING:DLM1
* NAME:John Q. Public
* DESTINATION:LPD1
* ROOM:Applications Support Area
* BUILDING:First Floor Main Building
* DEPARTMENT:Applications Support
* ADDRESS:MacKinney Systems
* 4411 E. STATE HWY D, Suite F
* Springfield, MO 65809
* Telephone: 417-882-8012
*.TITLE:Output For: John Q. Public

```

## 2.3.1.2 Separator Page Exit JQFFPRS2 Sample Output

Module JQFFPRS2 separator page sample output:

```
**START*****START*****START*****START*****START*****START*****START*****START***
*
* JOBID:          JOB00379
* JOB NAME:       DLM1ABC
* USER ID:        DLM1
* SYSOUT CLASS:   Q
* OUTPUT GROUP:   2.1.1
* TITLE:          Output For: John Q. Public
* ACCOUNTING:     DLM1
* FORM:           STD
* XWRITER:
* DESTINATION:    LPD1
* NAME:           John Q. Public
* ROOM:           Applications Support Area
* BUILDING:       First Floor Main Building
* DEPARTMENT:     Applications Support
* ADDRESS:        MacKinney Systems
*                 4411 E. State HWY D, Suite F
*                 SPRINGFIELD, MO 65809
*                 Telephone: 417-882-8012
*
* PRINT TIME:     16:04:50
* PRINT DATE:     10 NOV 2003
* PRINTER NAME:   LPD1
* SYSTEM:         P390
* FCB:           ****
*
**START*****START*****START*****START*****START*****START*****START*****START***
```

### 2.3.1.3 Separator Page Exit JQFFPRS3 Sample Output

Module JQFFPRS3 separator page sample output:

```

MACKINNEY SYSTEMS - JES QUEUE FOR PRINTERS

DDDDDDDDDD LL MM MM 11 AAAAAAAAAA BBBB BBBB CCCCCCCCC
DDDDDDDDDD LL MMM MM 111 AAAAAAAAAAAA BBBB BBBB CCCCCCCCC
DD DD LL MMM MMM 1111 AA AA BB BB CC CC
DD DD LL MM MM MM 11 AA AA BB BB CC CC
DD DD LL MM MMM MM 11 AA AA BB BB CC CC
DD DD LL MM MM MM 11 AAAAAAAAAA BBBB BBBB CC CC
DD DD LL MM MM 11 AAAAAAAAAA BBBB BBBB CC CC
DD DD LL MM MM 11 AA AA BB BB CC CC
DD DD LL MM MM 11 AA AA BB BB CC CC
DD DD LL MM MM 11 AA AA BB BB CC CC
DDDDDDDDDD LLLLLLLLLL MM MM 1111111111 AA AA BBBB BBBB CCCCCCCCC
DDDDDDDDDD LLLLLLLLLL MM MM 1111111111 AA AA BBBB BBBB CCCCCCCCC

JJJJJJJJJJ 00000000 BBBB BBBB 0000000000 11 222222222 000000000 555555555
JJJJJJJJJJ 0000000000 BBBB BBBB 0000000000 111 2222222222 0000000000 5555555555
JJ JJ OO OO BB BB 00 0000 1111 22 22 00 0000 55
JJ JJ OO OO BB BB 00 00 00 11 22 22 00 00 00 55
JJ JJ OO OO BB BB 00 00 00 11 22 22 00 00 00 55
JJ JJ OO OO BBBB BBBB 00 00 00 11 22 22 00 00 00 5555555555
JJ JJ OO OO BBBB BBBB 00 00 00 11 22 22 00 00 00 5555555555
JJ JJ OO OO BB BB 00 00 00 11 22 22 00 00 00 55
JJ JJ OO OO BB BB 0000 00 11 22 22 0000 00 55
JJ JJ OO OO BB BB 000 00 11 22 22 000 00 55
JJJJJJJJ 0000000000 BBBB BBBB 0000000000 1111111111 2222222222 0000000000 5555555555
JJJJJJ 0000000000 BBBB BBBB 0000000000 1111111111 2222222222 0000000000 5555555555

**START**START**START**START**START**START**START**START**START**
*
* JOBID: JOB00379 *
* JOB NAME: DLM1ABC *
* USER ID: DLM1 *
* SYSOUT CLASS: Q *
* OUTPUT GROUP: 2.1.1 *
* TITLE: Output For: John Q. Public *
* ACCOUNTING: DLM1 *
* FORM: STD *
* XWRITER: *
* DESTINATION: LPD1 *
* NAME: John Q. Public *
* ROOM: Applications Support Area *
* BUILDING: First Floor Main Building *
* DEPARTMENT: Applications Support *
* ADDRESS: MacKinney Systems *
* 4411 E. State HWY D, Suite F *
* SPRINGFIELD, MO 65809 *
* Telephone: 417-882-8012 *
*
* PRINT TIME: 16:04:50 *
* PRINT DATE: 10 NOV 2003 *
* PRINTER NAME: LPD1 *
* SYSTEM: P390 *
* FCB: **** *
*
**START**START**START**START**START**START**START**START**START**

```

### 2.3.1.4 Separator Page Exit JQFPRS4 Sample Output

Module JQFPRS4 separator page sample output:

```

MACKINNEY SYSTEMS - JES QUEUE FOR PRINTERS

DDDDDDDDDD LL MM MM 11 AAAAAAAAA BBBB BBBB CCCCCCCCC
DDDDDDDDDD LL MMM MMM 111 AAAAAAAAAA BBBB BBBB CCCCCCCCCC
DD DD LL MMM MMM 1111 AA AA BB BB CC CC
DD DD LL MM MM MM MM 11 AA AA BB BB CC
DD DD LL MM MMM MM 11 AA AA BB BB CC
DD DD LL MM MM MM 11 AAAAAAAAAA BBBB BBBB CC
DD DD LL MM MM 11 AAAAAAAAAA BBBB BBBB CC
DD DD LL MM MM 11 AA AA BB BB CC
DD DD LL MM MM 11 AA AA BB BB CC
DD DD LL MM MM 11 AA AA BB BB CC CC
DDDDDDDDDD LLLLLLLLLL MM MM 1111111111 AA AA BBBB BBBB CCCCCCCCCC
DDDDDDDDDD LLLLLLLLLL MM MM 1111111111 AA AA BBBB BBBB CCCCCCCCC

JJJJJJJJJJ 000000000 BBBB BBBB 0000000000 11 222222222 000000000 555555555
JJJJJJJJJJ 0000000000 BBBB BBBB 0000000000 111 2222222222 0000000000 5555555555
JJ JJ OO OO BB BB 00 0000 1111 22 22 00 0000 55
JJ JJ OO OO BB BB 00 00 00 11 22 22 00 00 55
JJ JJ OO OO BB BB 00 00 00 11 22 22 00 00 55
JJ JJ OO OO BBBB BBBB 00 00 00 11 22 00 00 00 5555555555
JJ JJ OO OO BBBB BBBB 00 00 00 11 22 00 00 00 5555555555
JJ JJ OO OO BB BB 00 00 00 11 22 00 00 00 55
JJ JJ OO OO BB BB 0000 00 11 22 0000 00 55
JJ JJ OO OO BB BB 000 00 11 22 000 00 55
JJJJJJJJ 0000000000 BBBB BBBB 0000000000 1111111111 2222222222 0000000000 5555555555
JJJJJJ 000000000 BBBB BBBB 000000000 1111111111 2222222222 000000000 555555555

*A START JOB01205 DLM1ABCC LP01 IEBGENER BIN 02.53.40 PM 14 SPT 2005 LP01 SYS1 ACCTNG DLM1 START A*
*A START JOB01205 DLM1ABCC LP01 IEBGENER BIN 02.53.40 PM 14 SPT 2005 LP01 SYS1 ACCTNG DLM1 START A*
*A START JOB01205 DLM1ABCC LP01 IEBGENER BIN 02.53.40 PM 14 SPT 2005 LP01 SYS1 ACCTNG DLM1 START A*
*A START JOB01205 DLM1ABCC LP01 IEBGENER BIN 02.53.40 PM 14 SPT 2005 LP01 SYS1 ACCTNG DLM1 START A*
*A START JOB01205 DLM1ABCC LP01 IEBGENER BIN 02.53.40 PM 14 SPT 2005 LP01 SYS1 ACCTNG DLM1 START A*
*A START JOB01205 DLM1ABCC LP01 IEBGENER BIN 02.53.40 PM 14 SPT 2005 LP01 SYS1 ACCTNG DLM1 START A*
*A START JOB01205 DLM1ABCC LP01 IEBGENER BIN 02.53.40 PM 14 SPT 2005 LP01 SYS1 ACCTNG DLM1 START A*
*A START JOB01205 DLM1ABCC LP01 IEBGENER BIN 02.53.40 PM 14 SPT 2005 LP01 SYS1 ACCTNG DLM1 START A*
*A START JOB01205 DLM1ABCC LP01 IEBGENER BIN 02.53.40 PM 14 SPT 2005 LP01 SYS1 ACCTNG DLM1 START A*
*A START JOB01205 DLM1ABCC LP01 IEBGENER BIN 02.53.40 PM 14 SPT 2005 LP01 SYS1 ACCTNG DLM1 START A*
*A START JOB01205 DLM1ABCC LP01 IEBGENER BIN 02.53.40 PM 14 SPT 2005 LP01 SYS1 ACCTNG DLM1 START A*
*A START JOB01205 DLM1ABCC LP01 IEBGENER BIN 02.53.40 PM 14 SPT 2005 LP01 SYS1 ACCTNG DLM1 START A*
*A START JOB01205 DLM1ABCC LP01 IEBGENER BIN 02.53.40 PM 14 SPT 2005 LP01 SYS1 ACCTNG DLM1 START A*
*A START JOB01205 DLM1ABCC LP01 IEBGENER BIN 02.53.40 PM 14 SPT 2005 LP01 SYS1 ACCTNG DLM1 START A*
*****

```

**Note:** This example is printed twice at the beginning of the report and once at the end of the report.

### 2.3.1.5 Separator Page Exit JQFFPRS5 Sample Output

Module JQFFPRS5 separator page sample output:

```

IIIIIIIIIII EEEEEEEEEEE BBBB BBBB GGGGGGGGG EEEEEEEEEEE NN NN EEEEEEEEEEE RRRRRRRRRR
IIIIIIIIIII EEEEEEEEEEE BBBB BBBB GGGGGGGGG EEEEEEEEEEE NNN NN EEEEEEEEEEE RRRRRRRRRR
II EE EE BB BB GG GG EE NNNN NN EE RR RR
II EE EE BB BB GG GG EE NN NN NN EE RR RR
II EEEEEEEEE BBBB BBBB GG GGGGG EEEEEEEEE NN NN NN EEEEEEEEE RRRRRRRRRR
II EEEEEEEEE BBBB BBBB GG GGGGG EEEEEEEEE NN NN NN EEEEEEEEE RRRRRRRRRR
II EE EE BB BB GG GG EE NN NN NN EE RR RR
II EE EE BB BB GG GG EE NN NNNN EE RR RR
IIIIIIIIIII EEEEEEEEEEE BBBB BBBB GGGGGGGGG EEEEEEEEEEE NN NN EEEEEEEEEEE RR RR
IIIIIIIIIII EEEEEEEEEEE BBBB BBBB GGGGGGGGG EEEEEEEEEEE NN NN EEEEEEEEEEE RR RR

          DDDDDDDDDD LL MM MM 11 XX XX 000000000 DDDDDDDDDD
          DDDDDDDDDD LL MMM MMM 111 XX XX 00000000000 DDDDDDDDDD
          DD DD LL MMMM MMMM 1111 XX XX 00 0000 DD DD
          DD DD LL MM MM MM MM 11 XX XX 00 00 00 DD DD
          DD DD LL MM MMMM MM 11 XXXX 00 00 00 DD DD
          DD DD LL MM MM MM 11 XX 00 00 00 DD DD
          DD DD LL MM MM 11 XXXX 00 00 00 DD DD
          DD DD LL MM MM 11 XX XX 0000 00 DD DD
          DD DD LL MM MM 11 XX XX 000 00 DD DD
          DDDDDDDDDD LLLLLLLLLL MM MM 1111111111 XX XX 0000000000 DDDDDDDDDD
          DDDDDDDDDD LLLLLLLLLL MM MM 1111111111 XX XX 0000000000 DDDDDDDDDD

* Q BEG JOB04536 DLM1X0D * ***** IEBGENER 12:52:52 07 JAN 2015.007 IDON STD **** * * * * BEG Q *

BBBBBBBBBB EEEEEEEEEEE GGGGGGGGG 44 44 555555555 333333333 666666666
BBBBBBBBBB EEEEEEEEEEE GGGGGGGGG 44 44 55555555555 33333333333 66666666666
BB BB EE GG GG 44 44 55 33 33 66 66
BB BB EE GG GG 44 44 55 33 33 66 66
BB BB EE GG GG 44 44 55 33 33 66 66
BBBBBBBBBB EEEEEEEEEEE GG GGGGG 44444444444 5555555555 3333333 66666666666
BBBBBBBBBB EEEEEEEEEEE GG GGGGG 44444444444 55555555555 3333333 66666666666
BB BB EE GG GG 44 44 55 33 33 66 66
BB BB EE GG GG 44 44 55 33 33 66 66
BB BB EE GG GG 44 44 55 33 33 66 66
BBBBBBBBBB EEEEEEEEEEE GGGGGGGGG 44 55555555555 33333333333 66666666666
BBBBBBBBBB EEEEEEEEEEE GGGGGGGGG 44 555555555 333333333 666666666

```

Note: This example is printed twice at the beginning of the report and once at the end of the report.

### 2.3.2 JQPFEX01 Exit Program

Exit program JQPFEX01 is available to add DJDE statements or other similar type statements before each printed data set of the report.

To customize the exit, change the exit program JQPFEX01 source, assemble, link into the JQP load library, and new copy the exit program to make the changes active. The exit must be linked with the RENT attribute.

The communication area passed from JQP to the exit is in member JQPBX01

Set the JQP destination definition “Option Flags” parameter (second flag, fifth option) to one to use the exit.

**Any changes to the JQPFEX01 exit are the responsibility of your installation!**

### 2.3.3 JQPFEX02 Exit Program

Exit program JQPFEX02 is available to customize the data set name allocated for printer \$FILE.

To customize the exit, change the exit program JQPFEX02 source, assemble, link into the JQP load library, and new copy the exit program to make the changes active. The exit must be linked with the RENT attribute.

The communication area passed from JQP to the exit is in member JQPBX02

Set the Control Table FLAGA parameter (second option) to one to use the exit.

**Any changes to the JQPFEX02 exit are the responsibility of your installation!**

### 2.3.4 JQPFEX03 Exit Program

Exit program JQPFEX03 is available to insert lines or data before the JQP setup module.

To customize the exit, change the exit program JQPFEX03 source, assemble, link into the JQP load library, and new copy the exit program to make the changes active. The exit must be linked with the RENT attribute.

The communication area passed from JQP to the exit is in member JQPBX03

Set the printer SWITCH parameter (second set, fourth option) to one to use the exit.

**Any changes to the JQPFEX03 exit are the responsibility of your installation!**

### 2.3.5 JQPFEX04 Exit Program

Exit program JQPFEX04 is available to change the JQP destination record before printing starts. Currently, only destination parameters RAW and SBCS translate Table can be modified. Other destination fields can be added later as required.

To customize the exit, change the exit program JQPFEX04 source, assemble, link into the JQP load library, and new copy the exit program to make the changes active. The exit must be linked with the RENT attribute.

The communication area passed from JQP to the exit is in member JQPBX04

Set the Destination FLAGS parameter (third set, second option) to one to use the exit.  
Or, Set the Control Table DFLAG3 (second option) to YES to use the exit.

**Any changes to the JQPFEX04 exit are the responsibility of your installation!**

### 2.3.6 JQPFMPTX Exit Program

Exit program JQPFMPTX is available to select the transform member used with the MacKinney Print Transform (MPT) interface.

To customize the exit, change the exit program JQPFMPTX source, assemble, link into the JQP load library, and new copy the exit program to make the changes active. The exit must be linked with the RENT attribute.

Set the JQP printer definition “MPT Support” parameter (third option) to six to use the exit.

**Any changes to the JQPFMPTX exit are the responsibility of your installation!**

### 2.3.7 JQPFPRSX Exit Program

Exit program JQPFPRSX is available to select the JQP setup module used to print the report.

To customize the exit, change the exit program JQPFPRSX source, assemble, link into the JQP load library, and new copy the exit program to make the changes active. The exit must be linked with the RENT attribute.

Set the JQP destination definition “Setup Options” parameter (third option) to six to use the exit.

**Any changes to the JQPFPRSX exit are the responsibility of your installation!**

## 2.4 VTAM Terminal LOGMODE Considerations

The VTAM LOGMODE for the Physical Terminal must be correct to allow JQP to access the terminal. An SNA terminal with a VTAM LU definition must be defined with a SNA LOGMODE, and a NON-SNA terminal must be defined with a NON-SNA LOGMODE.

JQP supports the IBM supplied LOGMODEs and other valid LOGMODE. For your initial testing of JQP, we suggest you use only IBM supplied LOGMODE's (i.e. SNA model 2 uses D4A32782 or Non-SNA model 2 use D4B32782). After initial testing you may use any customized LOGMODE. When you experience any LOGMODE problems, validate each parameter referencing the IBM VTAM Customization Manual for complete descriptions and examples of LOGMODEs.

## 2.5 VTAM Printer LOGMODE Considerations

The VTAM LOGMODE for a printer must be correct in order for JQP to acquire it and print properly. See the IBM VTAM Customization Manual and your printer reference manual for further information on setting up a correct LOGMODE. Recommended values are:

```
NON-SNA Printers --> D4B32782
SNA Printers --> DSC2K
SCS Printers --> SCS
```

## 2.6 Bypassing the JQP LOGON Screen

The JQP Logon Screen may be bypassed to avoid signing on to an additional application. With this option, the JQP USER entry is not secured. Bypassing the JQP Logon Screen is achieved by either supplying the JQP USER in the "Auto Logon ID" parameter for the terminal or for Dynamic Terminals, specifying AUTOL=YES in the Control Table JQPFDCT.

## 2.7 Dynamic Physical Terminal Creation

Dynamic Physical Terminal Creation allows you to set parameters in the control table (JQPFDCT) for physical terminals not defined to JQP. All Dynamic Physical terminals are assigned the same parameters.

## 2.8 Printer Setup Codes

### For SCS type and TCP/IP printers only!

JQP sends setup PCL, Postscript, or XEROX codes to the printer. This feature allows changing the printer characteristics for each report printed (i.e., changing the page orientation from landscape to portrait). The name specified in the "SETUP" field for the destination is prefixed with HP for PCL commands, PS for Postscript commands, and XE for XEROX commands. **Any setup module name not beginning with HP, PS or XE is treated like a HP module containing PCL codes.** PCL commands are keyed in ASCII and are not translated. Postscript and XEROX commands are keyed in EBCDIC and are translated to ASCII before being sent to the printer. To use this feature, a load module with the PCL, Postscript or XEROX control codes is created. **The JCL used to assemble a JQP table may be used to assemble to a setup load module.** JQP has four separate locations setup codes can be sent to the printer. This allows printing the separator pages differently than the report text or allows adding a basic overlay to each printed page.

### 2.8.1 JQP\$SET format

```
label JQP$SET TYPE=INITIAL          ← First entry
      JQP$SET TYPE=ENTRY           ← Specifies entry
      , SETUP= [HEADER | 1STDD | PAGE | EXIT | TRAILER]
      JQP$SET TYPE=FINAL          ← Last entry
```

TYPE	<p>Type. Specify one of the following:</p> <p>TYPE=INITIAL    First entry.          TYPE=ENTRY    Specifies setup code sequence.          TYPE=FINAL    Last entry.</p> <p>This parameter is required.  <b>Note: The label in columns one through eight of the INITIAL statement must contain the name of the setup module.</b></p>
SETUP	<p>Specify to send the setup codes following the statement to the printer.</p> <p>SETUP=HEADER, the setup codes are sent to the printer before the beginning and ending separator page when SETUP=TRAILER codes are not available. When no separator pages are printed, the setup codes are sent before printing the first page of the report. When separator pages are printed for each data set within the report, the setup codes are sent before each separator page is printed.</p> <p>SETUP=1STDD, the setup codes are sent to the printer before the first page of the report is printed. When separator pages are printed for each data set within the report, the setup codes are sent before printing the first page for all data sets within the report.</p> <p>SETUP=PAGE, the setup codes are sent to the printer before each page is printed.</p> <p>SETUP=EXIT, the setup codes are sent to the printer after all printing as completed. It is recommended x'1B45' be sent to PCL printers and x'04' be sent to postscript printers after printing is completed.</p> <p>SETUP=TRAILER, the setup codes are sent to the printer before the ending separator . It is not necessary to specify TRAILER setup codes when they are the same as the HEADER setup codes. This option is available in the unlikely event the HEADER and TRAILER codes are different.</p>

## 2.8.2 Setup Module Conversion

Two methods (REXX or manual) are available to convert the pre-version 2.2 setup modules.

### REXX method

JCL is provided in source member CNVSETEX to execute a REXX exec to convert pre-version 2.2 setup modules. Modify the CNVSETEX source member to specify the pre-version 2.2 setup modules source library as input and the new source library containing the converted setup modules. The new source library contains the member ASMSETUP. Use the ASMSETUP member to assemble the converted setup module.

### Manual method

The following example procedure converts pre-version 2.2 setup modules.

Pre-version 2.2 setup module:

```
*-----*
*   PCL SETUP ROUTED TO HEWLETT-PACKARD PRINTERS.   *
*-----*
(1) HP2P   CSECT
(2)      AIF ('&SYSPARM' NE 'MODE31').L000
(3) HP2P   AMODE 31
(4) HP2P   RMODE ANY
(5) .L000  ANOP
(6)      DC CL8'HP2P'          MODULE NAME
(7)      COPY JQP$RLSE
(8)      DC AL2(SETUPL)
(9) *
(10) SETUP EQU *
        DC X'1B45'          RESET
        DC X'1B266B3247'    END-OF-LINE TERMINATION
        DC X'1B266C304F'    PORTRAIT
(11) SETUPL EQU *-SETUP      LENGTH OF TRN DATA
        END
```

**Item lines 1 through 11 are deleted.**

Version 2.2 setup module:

```
*-----*
*   PCL SETUP ROUTED TO HEWLETT-PACKARD PRINTERS.   *
*-----*
(1) HP2P   JQP$SET TYPE=INITIAL
(2)      JQP$SET TYPE=ENTRY,SETUP=HEADER
        DC X'1B45'          RESET
        DC X'1B266B3247'    END-OF-LINE TERMINATION
        DC X'1B266C304F'    PORTRAIT
(3)      JQP$SET TYPE=ENTRY,SETUP=EXIT
(4)      DC X'1B45'          RESET
(5)      JQP$SET TYPE=FINAL
        END
```

**Item lines 1 through 5 are added.**

## 2.8.3 Setup Module Example (PCL)

Following is an example PCL control codes module found in member HP2L:

```
*-----*
*          PCL SETUP ROUTED TO HEWLETT-PACKARD PRINTERS.          *
*-----*
HP2L      JQP$SET TYPE=INITIAL
          JQP$SET TYPE=ENTRY, SETUP=HEADER
          DC      X'1B45'          RESET
          DC      X'1B266B3247'    END-OF-LINE TERMINATION
          DC      X'1B266C3053'    SELECT SIMPLEX PRINT
          DC      X'1B266C3548'    FEED FROM PAPER DECK
          DC      X'1B266C314F'    LANDSCAPE
          DC      X'1B283855'      ROMAN-8 SYMBOL SET
          DC      X'1B28733050'    PRI SPACING IS FIXED
          DC      X'1B2873313548'  PRI PITCH IS 15
          DC      X'1B2873382E3556' PRI POINT SIZE IS 8.5
          DC      X'1B28733053'    PRI STYLE IS UPRIGHT
          DC      X'1B28733042'    PRI STROKE WEIGHT IS NORMAL
          DC      X'1B28733054'    PRI TYPEFACE IS LINE PRINTER
          DC      X'1B266C352E3237323743' VMI = 5.2727
          DC      X'1B266C3745'    TOP MARGIN IS 7
          DC      X'1B266131344C'  LEFT MARGIN IS 14
          DC      X'1B26613052'    VERT CUR POS = ROW 0
          JQP$SET TYPE=ENTRY, SETUP=EXIT
          DC      X'1B45'          RESET
          JQP$SET TYPE=FINAL
          END
```

Some JQP customers have found it easier to use the assembler's constant type "CA" to generate ASCII constant rather than manually translating them to hex strings.

**The assembler constant type "CA" requires High Level Assembler v5.0 or higher.**

Following is the same example PCL module as above using the "CA" type.

```
*-----*
*          PCL SETUP ROUTED TO HEWLETT-PACKARD PRINTERS.          *
*-----*
HP2L      JQP$SET TYPE=INITIAL
          JQP$SET TYPE=ENTRY, SETUP=HEADER
          DC      X'1B',CA'E'      RESET
          DC      X'1B',CA'&k2G'    END-OF-LINE TERMINATION
          DC      X'1B',CA'&l0S'    SELECT SIMPLEX PRINT
          DC      X'1B',CA'&l5H'    FEED FROM PAPER DECK
          DC      X'1B',CA'&l10'    LANDSCAPE
          DC      X'1B',CA'(8U'     ROMAN-8 SYMBOL SET
          DC      X'1B',CA'(s0P'    PRI SPACING IS FIXED
          DC      X'1B',CA'(s15H'   PRI PITCH IS 15
          DC      X'1B',CA'(s8.5V'  PRI POINT SIZE IS 8.5
          DC      X'1B',CA'(s0S'    PRI STYLE IS UPRIGHT
          DC      X'1B',CA'(s0B'    PRI STROKE WEIGHT IS NORMAL
          DC      X'1B',CA'(s0T'    PRI TYPEFACE IS LINE PRINTER
          DC      X'1B',CA'&l5.2727C' VMI = 5.2727
          DC      X'1B',CA'&l7E'    TOP MARGIN IS 7
          DC      X'1B',CA'&a14L'   LEFT MARGIN IS 14
          DC      X'1B',CA'&a0R'    VERT CUR POS = ROW 0
          JQP$SET TYPE=ENTRY, SETUP=EXIT
          DC      X'1B',CA'E'      RESET
          JQP$SET TYPE=FINAL
          END
```

## 2.8.4 Setup Module Example (postscript)

Following is an example Postscript control codes module found in member PSL1STD:

```
*-----*
*          POSTSCRIPT SETUP                               *
* FORMATS OUTPUT IN 132 COLUMNS BY 66 LINES ON A LANDSCAPE PAGE *
*-----*
PSL1STD  JQP$SET TYPE=INITIAL
         JQP$SET TYPE=ENTRY, SETUP=HEADER
         DC    C'!-Adobe'
         DC    X'OD'
         DC    C'%% PSL1STD %%%'
         DC    C'%% &SYSDATE &SYSTIME %%%'
         DC    X'OD'
         DC    C'/fonttype /Courier def'
         DC    C'/charsize 8 def'
         DC    C'/LM 73 def'
         DC    C'/TM 569 def'
         DC    C'/BM 40 def'
         DC    C'/TM TM charsize sub def'
         DC    C'/toppage{LM TM moveto}def'
         DC    C'/newpage{showpage setup toppage}bind def'
         DC    C'/setup'
         DC    C' {612 0 translate 90 rotate}bind def'
         DC    C'/backline'
         DC    C'{LM currentpoint exch pop'
         DC    C' charsize add moveto'
         DC    C'}bind def'
         DC    C'/str 272 string def'
         DC    C'/newline'
         DC    C'{LM currentpoint exch pop'
         DC    C' charsize sub dup BM le'
         DC    C' {pop pop newpage}'
         DC    C' {moveto}'
         DC    C' ifelse'
         DC    C'}bind def'
         DC    C'/lastline'
         DC    C'{dup length 0 eq{pop}{newline}'
         DC    C' readff}ifelse showpage'
         DC    C'}bind def'
         DC    C'/readff'
         DC    C'({\014) search'
         DC    C' {dup length 0 eq'
         DC    C' {pop pop dup length 0 eq'
         DC    C' {pop newpage backline}'
         DC    C' {newpage readff}ifelse}'
         DC    C' {show pop newpage dup'
         DC    C' length 0 eq {pop backline}'
         DC    C' {readff}ifelse}ifelse}'
         DC    C' {show}ifelse'
         DC    C'}bind def'
         DC    C'/clearff'
         DC    C'({\014) search{dup length 0 eq'
         DC    C' {pop pop dup length 0 eq{pop}'
         DC    C' {readff}ifelse}'
         DC    C' {show pop newpage dup length 0 eq'
         DC    C' {backline pop}{readff}ifelse}'
         DC    C' ifelse}{show}ifelse'
         DC    C'}bind def'
         DC    C'/clearfront'
         DC    C'{currentfile str readline'
         DC    C' {dup length 0 eq'
         DC    C' {pop currentfile str readline'
         DC    C' {dup length 0 eq{pop}{clearff}'
         DC    C' ifelse}if}{clearff}ifelse}if'
         DC    C'}bind def'
         DC    C'/readfile'
         DC    C'{clearfront'
         DC    C' {currentfile str readline'
         DC    C' ({\014) search'
         DC    C' {dup length 0 eq'
         DC    C' {pop pop dup length 0 eq'
         DC    C' {pop newpage backline}'
         DC    C' {newpage readff}ifelse}'
         DC    C' {newline show pop newpage'
         DC    C' dup length 0 eq{pop backline}{readff}'
```

```

DC    C' ifelse}ifelse}{newline show}'
DC    C' ifelse}{lastline exit}ifelse}loop'
DC    C'}bind def'
DC    C' setup fonttype findfont'
DC    C' charsize scalefont setfont'
DC    C' toppage readfile '
JQP$SET TYPE=ENTRY,SETUP=EXIT
DC    X'04'                RESET (END OF TRANSMISSION)
JQP$SET TYPE=FINAL
END

```

Following is an example XEROX control codes module:

```

*-----*
*          SETUP ROUTED TO XEROX PRINTERS.          *
*-----*
XEROX12L JQP$SET TYPE=INITIAL
          JQP$SET TYPE=ENTRY,SETUP=HEADER
DC      X'15'                LINE FEED
DC      C'=UDK='            UDK CODE
DC      X'A115A1'
DC      C'+1Titan12iso-L'
DC      X'15A1F115'
JQP$SET TYPE=FINAL
END

```

## 2.8.5 Setup Module Selection Exit

JQP provides an exit program JQPFPRSX to determine the setup module name. **Any changes to the setup module selection exit are the responsibility of your installation.** After changing the exit, assemble, link and new copy the exit to make the changes active. The setup selection exit must be linked with the RENT attribute.

## 2.9 Assigning Users to Printers

Users are assigned to specific printer group by supplying the group name in the “Printer Group” field and the GROUP parameter of JQPFDFPX table. For example, this ensures user 'JOE' can only access printer 'PRINTER1'.

## 2.10 Assigning Users to a CLASS of Authorization for JQP Commands

Users are assigned to one of 4 classes of authorization for securing JQP commands. The classes are 'ADM', 'OPER', 'EXTU' and 'USER' for Administrator, Operator, Extended User and General User, respectively. Each JQP command is defined in the JQPFDFCM table with a flag for each of the classes indicating eligibility of use.

## 2.11 Dynamic User Creation

Dynamic User Creation sets parameters in the control table (JQPFDFCT) for users not defined to JQP. All Dynamic users have the same user parameters.

**RACF, ACF2, and TOP SECRET sites can skip to the next paragraph.** When using Dynamic User Creation with internal security, the physical terminal record has the JQP user supplied in the “Auto Logon ID” field. When using DYNAMIC Physical Terminals with internal security, specify the AUTOL=YES parameter in the control table (JQPFDFCT). In this case, the JQP user is the same name as the physical terminal’s NETNAME.

Dynamic users have the options CLASS=USER and MCRGRP=SYSTEM.

## 2.12 Modifications to JQPFDHxx Modules

All JQPFDHxx modules represent the JQP help screens displayed to the users. All JQP help screens are model 2 (24x80) and are stored on the JQP VSAM file. The help screen displayed for a JQP screen is determined by the last two characters of the module name. For example, when JQP screen JQPFDISL is currently displayed to the user, requesting help displays the text found in module JQPFDHSL.

Modification to the JQPFDHxx modules is allowed; however, **all modifications to the JQPFDHxx modules are the responsibility of your installation and must be re-modified for each JQP release.** After a help module has changed, issue the JQP “NEWCOPY JQPFDHxx” command to update the JQP VSAM file.

The JQPFDHxx modules are basically a table of text lines displayed upon the terminal. Each text line starts with a one byte color and a one byte high lighting indicator. The color and high lighting indicators are followed by 78 bytes of the help text. Help text is displayed in pages, with 18 lines in each page. Comment lines contain an “\*” in column one.

### Column 1 – Color

1	Blue
2	Red
3	Pink
4	Green
5	Turquoise
6	Yellow
7	White
Blank	Default

### Column 2 - Highlighting

1	Blink
2	Reverse
4	Underline
Blank	Default

## 2.13 Modifications to JQPFDIxx Modules

All JQPFDIxx modules represent the JQP screens displayed to the users. JQP supports model 2/3/4/5 and large screen sizes for all screens supporting paging commands (i.e. forward, backward), excluding the JQPFDI FL screen. Non-paging screens are model 2 (24x80) only. Each JQPFDIxx module is made up of JQP\$DFI macros. Each JQPFDIxx module is listed below.

JQPFDIAX	Export Definitions screen
JQPFDIAY	Import Definitions screen
JQPFDIDI	Library Command screen
JQPFDIDS	Definition Display screen
JQPFDIDX	Definition Display Alternate screen
JQPFDI FL	Filter Selection screen
JQPFDIHP	Help Display screen
JQPFDIIP	TCP/IP Printer List screen
JQPFDILH	Logon screen (internal security)
JQPFDILX	Logon screen (external security)
JQPFDILZ	Logon screen (password phrase)
JQPFDIM1	MPT Input Settings screen
JQPFDIM2	MPT Output Settings PCL screen
JQPFDIM3	MPT Output Settings Postscript screen
JQPFDIM4	MPT Output Settings screen
JQPFDIM5	MPT Advanced Settings screen
JQPFDIM6	MPT Input Settings Line Data screen
JQPFDIPL	Printer Work Queue PWQLOG
JQPFDIPQ	Print Work Queue List screen
JQPFDIPT	Print Transform Member screen
JQPFDISL	Main Menu screen
JQPFDISQ	Report Attributes
JQPFDIUS	User List screen
JQPFDIVP	VTAM Printer List screen
JQPFDIVT	VTAM Terminal List screen
JQPFDIXI	TCP/IP Printer Detail screen
JQPFDIXM	Print Transform Member Detail screen
JQPFDIXQ	Print Work Queue Destination Detail screen
JQPFDIXS	Destination Detail screen
JQPFDIXT	VTAM Terminal Detail screen
JQPFDIXU	User Detail screen
JQPFDIXV	VTAM Terminal Detail screen
JQPFDIXY	Print Work Queue Printer Detail screen

Modification to the JQPFDIxx modules is allowed; however, it is not recommended unless you have knowledge of the assembler language. **All modifications to the JQPFDIxx modules are the responsibility of your installation and must be re-modified for each JQP release.**

Note: Changes to the commands equated to PFkeys on any JQP screen is allowed.  
Changes to the screen layout for the three JQP logon screens JQPFDILH, JQPFDILX and JQPFDILZ is allowed.  
Changes to the screen layout for any other JQP screen is not allowed.

Note: After the modifications to the JQPFDIxx module are complete, assemble and link the module. Issue the JQP "NEWCOPY JQPFDIxx" command or recycle JQP to utilize the update module.

## 2.13.1 JQPFDIxx Format

```
JQPFDIxx CSECT
JQPFDIxx JQP$DFI TYPE=INITIAL,CURSOR=name,HEADER=#,TRAILER=#
JQP$DFI TYPE=KEY,COMMAND=command
JQP$DFI TYPE=FIELD,LOC=(row,column),
        COLOR=[BLUE|RED|PINK|GREEN|TURQUOISE|YELLOW|WHITE],
        ATTRB=[ASKIP|PROT|NUM|HIGH|DARK|MDT],
        HILIGHT=[BLINK|REVERSE|UNDERLINE],
        INITIAL='text'
JQP$DFI TYPE=HELP,LOC=(row,column,length,lines),TAG=name
JQP$DFI TYPE=FINAL
```

The first JQP\$DFI macro must contain the TYPE=INITIAL option. The initial cursor location is changed by modifying the CURSOR=name on this statement. The name is located in columns 1 through 8 on the TYPE=FIELD statement where the cursor is placed. The HEADER= and TRAILER= keywords define the number of rows reserved for the header and trailer area for the JQP paging screens.

Following the first TYPE=INITIAL statement are TYPE=KEY statements. The TYPE=KEY statements represent the JQP commands set to a PFKey to display on the screen.

Following the TYPE=KEY statements are TYPE=FIELD statements. **The TYPE=FIELD statements containing a label in columns one through eight are referenced internally by JQP and must NOT be deleted. Doing so results in a JQP ABEND.** Location of the field is changed by modifying the LOC=(row,column) on this statement. COLOR, ATTRB, HILIGHT, and INITIAL are optional and can be specified in any combination. When ATTRB is not specified, the default is unprotected.

Following the TYPE=FIELD statements are TYPE=HELP statements. Use the TYPE=HELP statements to build an index into the help source member for field sensitive help support. Location and length of the help sensitive field is controlled by the LOC=(row,column,length) option. To repeat the help sensitive field for x number of lines following, specify the LOC=(row,column,length,lines) option. Use the TAG name to cross reference the field sensitive help name with the help source member for the screen.

The last JQP\$DFI macro must contain the TYPE=FINAL option.

## 2.14 Double-Byte Character Set (DBCS)

Print output may contain only Single-Byte Character Set (SBCS) data, only Double-Byte Character Set (DBCS) data or a mixture of both SBCS and DBCS. The destination parameter “DBCS Options” informs JQP of the three options is use for the destination. SBCS print output is translated using the translation table specified in the destination parameter “Translation Table”. Pure DBCS print output is translated using the translation table specified in the destination parameter “DBCS Options”. Mixed print output uses the translation table specified in the destination parameter “Translation Table” for SBCS and translation table specified in the destination parameter “DBCS Options” for DBCS. Appendix B contains DBCS translation tables provided with JQP.

### Pure DBCS Requirements

Pure DBCS print output must have lines with even lengths and the number of bytes between the Shift-Out (SO) and Shift-In (SI) characters for mixed print output must be even in length. Each print line with a SO must also have a paired SI character. Mixed DBCS SOSI may not be split across multiple print lines

The IBM manual Character Data Representation Architecture: Reference & Registry SC09-2190 was used as the reference for DBCS information.

### 2.14.1 JQP\$DBCS format

```
JQP$DBCS TYPE=INITIAL           ← First entry
JQP$DBCS TYPE=DEFAULT         ← Specifies defaults for subsequent entries
      [, DEFAULT=xxxxx]
JQP$DBCS TYPE=ENTRY           ← Specifies entry
      , XLATE= (xxxxx, xxxxx)
JQP$DBCS TYPE=FINAL           ← Last entry
```

TYPE	Type. Specify one of the following: TYPE=INITIAL      First entry. TYPE=DEFAULT      Specifies defaults for subsequent entries. TYPE=ENTRY      Specifies a DBCS translation. TYPE=FINAL      Last entry.  This parameter is required.
DEFAULT	Specifies the two byte hexadecimal value substituted for invalid DBCS characters. The default is 0000.
XLATE	(xxxxx, xxxxx). First parameter specifies the input DBCS value. Second parameter specifies the translated output value. Both parameters are a two byte hexadecimal value. Note: The first character of the input DBCS value is the “ward” value. All the same “ward” values <u>must</u> be placed together in translate table.

## 2.15 Filter Tables

Filter tables are used to control the JQP definition fields allowing filtering. Each table is supplied in field name text alphabetic order. The order of the table can be changed. This allows the most common used filters to appear first on the JQPFDFL filter update screen. Remove entries within the table to prevent filtering upon those fields.

<u>Filter Tables</u>	<u>JQP definition</u>
JQPFTBF1	Destinations
JQPFTBF2	VTAM Printers
JQPFTBF3	TCP Printers
JQPFTBF4	Users
JQPFTBF5	Print Work Queue
JQPFTBF6	Print Transform Members

### 2.15.1 JQP\$FLT format

```
JQP$FLT TYPE=INITIAL           ← First entry
JQP$FLT TYPE=ENTRY             ← Specifies entry
      , FIELD=###
      , TEXT='xxx'
JQP$FLT TYPE=FINAL             ← Last entry
```

TYPE	Type. Specify one of the following:  TYPE=INITIAL      First entry. TYPE=ENTRY        Specifies a filter field entry. TYPE=FINAL        Last entry.  This parameter is required.
FIELD	Specifies the internal number assigned to the field. This parameter is required. <b>Do not change this number.</b>
TEXT	Specifies the field name description to appear on the JQPFDFL filter update screen.

## 2.16 JQPFILE Utilities

Program [JQPMLIST](#) produces a listing of all definitions on the JQPFILE.

Program [JQPMDFDS](#) creates a JQPFDFFDS Destination Table from the definitions on the JQPFILE.

Program [JQPMDFPH](#) creates a JQPFDFFPH Physical Table from the definitions on the JQPFILE.

Program [JQPMDFPT](#) creates a JQPFDFFPT Print Transform Member Table from the definitions on the JQPFILE.

Program [JQPMDFUS](#) creates a JQPFDFFUS User Table from the definitions on the JQPFILE.

Program [JQPMMIGR](#) migrates the JQPFDFFDS, JQPFDFFPH, JQPFDFFPT or JQPFDFFUS tables to the JQPFILE.

### 2.16.1 JQPMLIST VSAM File List Utility

Program JQPMLIST produces a listing of all definitions on the JQPFILE. Member JQPMLIST in the JQP source library contains example JCL to execute the JQPMLIST program. Execute the JQPMLIST program at any time, JQP does not need to be terminated.

Optionally, add the `PARM='code'` to limit the definitions printed.

`PARM='code'`

- `DFP` - Printer (VTAM and TCP/IP)
- `DFS` - Destination
- `DFT` - Print Transform
- `DFU` - User
- `DFV` - Terminal
- `FLT` - Filter
- `ADM` - Administration

More than one code is allowed separated by a comma.

For example, to list printers, destinations and users only:

```
//STEP1 EXEC PGM=GSMLIST, PARM='DFP,DFS,DFU'
```

### 2.16.2 JQPMDFDS Create JQPFDFFDS Utility

Program JQPMDFDS creates a JQPFDFFDS Destination Table from the definitions on the JQPFILE. Member JQPMDFDS in the JQP source library contains example JCL to execute the JQPMDFDS program. Execute the JQPMDFDS program at any time, JQP does not need to be terminated.

### 2.16.3 JQPMDFPH Create JQPFDFFPH Utility

Program JQPMDFPH creates a JQPFDFFPH Physical Table from the definitions on the JQPFILE. Member JQPMDFPH in the JQP source library contains example JCL to execute the JQPMDFPH program. Execute the JQPMDFPH program at any time, JQP does not need to be terminated.

## **2.16.4 JQPMDFPT Create JQPFDFPT Utility**

Program JQPMDFPT creates a JQPFDFPT Print Transform Member Table from the definitions on the JQPFILE. Member JQPMDFPT in the JQP source library contains example JCL to execute the JQPMDFPT program. Execute the JQPMDFPT program at any time, JQP does not need to be terminated.

## **2.16.5 JQPMDFUS Create JQPFDFUS Utility**

Program JQPMDFUS creates a JQPFDFUS User Table from the definitions on the JQPFILE. Member JQPMDFUS in the JQP source library contains example JCL to execute the JQPMDFUS program. Execute the JQPMDFUS program at any time, JQP does not need to be terminated.

## **2.16.6 JQPMMIGR Migrate to JQPFILE Utility**

Program JQPMMIGR migrates the JQPFDFDS, JQPFDFPH, JQPFDFPT or JQPFDFUS tables to the JQPFILE. Member JQPMMIGR in the JQP source library contains example JCL to execute the JQPMMIGR program.

## **2.17 SMF Type 6 Listing Utility**

Program JQPMSMF6 produces a listing of the SMF type 6 records produced by JQP. Member JQPMSMF6 in the JQP source library contains example JCL to execute the JQPMSMF6 program.

## 2.18 Recommended Printer Settings

The following sections detail the recommended printer settings for certain types of printers.

### 2.18.1 Solimar Printers

The following JQP destination settings are recommended for reports directed to a Solimar print server:

```
Translate Table => JQPFTTP0
Width =====> 00000
Raw =====> 7
Setup Options ==> _____ Y _
```

The following JQP destination/printer settings are recommended for reports directed to a Solimar Blocker Emulation Module print server:

JQPFDIRS screen:

```
Translate Table => JQPFTTP0
Width =====> 00000
Raw =====> 8
Setup Options ==> _____ Y _
Option Flags ==> _ _ _ 1 : _ _ _ _
```

JQPFDIIP screen:

```
Form Feed Seq. ==> 0C0D          New Line Seq. ==> 0D0A
```

Note: This sends the print ASIS, lines are separated by the New Line Sequence x'0D0A'.

### 2.18.2 Xerox LCDS Printers

The following JQP destination settings are recommended for reports directed to a Xerox LCDS print server:

```
Translate Table => JQPFTTP0
Width =====> 00000
Raw =====> 9
Setup Options ==> _____ Y _
```

Note: The Xerox printer may have a setting for either ASCII or LCDS. This setting must be set to LCDS.

### 2.18.3 MacKinney Print Transform Printers

The following JQP printer settings are recommended for AFP reports transformed by MacKinney Print Transform:

```
MPT Support ==> 1 member _
```

## 2.19 \$FILE Printer Submit JCL Option

The \$FILE Printer Submit JCL Option provides a method to submit JCL after printing is successful. This option only applies for the JQP printer \$FILE used to create a z/OS data set from the JES report.

To enable this option, set the JQP destination parameter “Option Flag2”, 6<sup>th</sup> flag to “1”.

The following JCL statements must be added to the JQP procedure.

```
//JQPRDR DD SYSOUT=(A,INTRDR),  
// DCB=(RECFM=FB,LRECL=80,BLKSIZE=80,BUFNO=1)
```

The JCL submitted must be a PDS member in the JQPCNTL data set. JQP first attempts to use the destination name as the PDS member containing the JCL. In the event this member is not available, JQP uses the printer name \$FILE as the PDS member containing the JCL.

Two variables are available for use in the PDS member.

&DESTID JQP destination name  
&DSNAME z/OS data set name created for the report

Example: The following JCL purges the data set created using the variable &DESTID for the job name and the variable &DSNAME for the data set deleted.

```
//&DESTID JOB (MS), 'IEFBR14', CLASS=A, MSGCLASS=X  
//STEP1 EXEC PGM=IEFBR14  
//SYSPRINT DD SYSOUT=*  
//SYSUT1 DD DSN=&DSNAME, DISP=(OLD,DELETE)
```

Note: Any error messages resulting from the JCL submission are written to the JQPLOG, optionally to the system log.

Note: Any error resulting from the JCL submission does not cause the report to fail. The report is considered printed successful.

## 2.20 TLS Considerations

JQP supports secured printer connections using the Internet Printing Protocol (IPP) and Transport Layer Security (TLS) protocol.

The printer must support TLS and have a valid certificate loaded into the printer.

### 2.20.1 Control Table (JQPFDCT) Parameters

#### SUBTASK

Parameter 3: Specify the number of allocated subtasks to include Language Environment (LE) support.

#### TLS

Parameter 1: The Transport Layer Security (TLS) version supported.

Parameter 2: The JQP Keyring Name.

### 2.20.2 Physical Table (JQPFDH) Parameters

#### IPOINT

Parameter 1: Specify the port number 443.

### 2.20.3 TCP/IP Printer Parameters

Port Number =====> 443

### 2.20.4 IRR.DIGTCERT.LISTRING Access

Use the following example JCL to allow JQP access to the IRR.DIGTCERT.LISTRING resource.

Without access to the IRR.DIGTCERT.LISTRING resource, JQP's attempt to print to a secured printer fails with return code 416.

```
//STEP1          EXEC   PGM=IKJEFT01,DYNAMNBR=20
//SYSTSPRT      DD     SYSOUT=*
//SYSLBC        DD     DSN=SYS1.BROADCAST,DISP=SHR
//SYSTSIN       DD     *
RDEFINE FACILITY IRR.DIGTCERT.LISTRING UACC(NONE) +
  AUDIT(FAILURES(READ))
PERMIT IRR.DIGTCERT.LISTRING CLASS(FACILITY) ID(JQP)
ACCESS(READ)
SETROPTS RACLIST(FACILITY)
SETROPTS RACLIST(FACILITY) REFRESH
RLIST FACILITY IRR.DIGTCERT.LISTRING AUTHUSER
//
```

Note: Change the ID(JQP) parameters to your installation requirements.

## 2.20.5 Add the JQP Keyring

Use the following example JCL to add the JQP Keyring:

```
//STEP1          EXEC   PGM=IKJEFT01,DYNAMNBR=20
//SYSTSPRT      DD     SYSOUT=*
//SYSLBC        DD     DSN=SYS1.BRODCAST,DISP=SHR
//SYSTSIN       DD     *
RACDCERT ADDRING(JQP_KEYRING) ID(JQP)
SETROPTS RACLIST(DIGTRING) REFRESH
RACDCERT ID(JQP) LISTRING(JQP_KEYRING)
//
```

Note: Change the JQP\_KEYRING keyring name for your installation requirements.

Note: Change the ID(JQP) parameters to your installation requirements.

## 2.20.6 Add Self-Signed Certificate

Use the following example to create a self-signed certificate and add it to the JQP Keyring.

Without access the self-signed certificate, JQP's attempt to print to a secured printer fails with return code 7.

After the first printer certificate is added the JQP Keyring, the self-signed certificate can be removed from the JQP Keyring and deleted.

```
//STEP1          EXEC   PGM=IKJEFT01,DYNAMNBR=20
//SYSTSPRT      DD     SYSOUT=*
//SYSLBC        DD     DSN=SYS1.BRODCAST,DISP=SHR
//SYSTSIN       DD     *
RACDCERT ID(JQP) GENCERT SUBJECTSDN( T('MacKinney Systems JQP') +
   CN('MacKinney CICS') O('MacKinney Systems') OU('GOPHER')      +
   L('Springfield') SP('MO') C('US') ) SIZE(512)                +
   NOTAFTER(DATE(2099-12-31)) WITHLABEL('MacKinney Systems JQP')
RACDCERT ID(JQP) CONNECT( LABEL(' MacKinney Systems JQP ') +
   RING(JQP_KEYRING) ID(JQP) DEFAULT USAGE(PERSONAL))
SETROPTS RACLIST(DIGTCERT, DIGTRING) REFRESH
RACDCERT ID(JQP) LIST
RACDCERT ID(JQP) LISTRING(JQP_KEYRING)
//
```

Note: Change the JQP\_KEYRING keyring name for your installation requirements.

Note: Change the ID(JQP) parameters to your installation requirements.

## 2.20.7 Add the printer's certificate

JQP's first attempt to print to a secured printer fails with return code 417.

For this failure, JQP writes the printer's certificate to a z/OS data set with the name "*hlq.JQPCERT.printer*".

Use the following example JCL to add the printer's certificate:

```
//STEP1      EXEC   PGM=IKJEFT01,DYNAMNBR=20
//SYSTSPRT   DD     SYSOUT=*
//SYSLBC     DD    DSN=SYS1.BROADCAST,DISP=SHR
//SYSTSIN    DD   *
RACDCERT ADD('hlq.JQPCERT.printer') ID(JQP) +
  TRUST WITHLABEL('HP PRINTER 2430')
RACDCERT ID(JQP) CONNECT( LABEL('HP PRINTER 2430') +
  RING(JQP_KEYRING) ID(JQP) DEFAULT USAGE(PERSONAL))
SETROPTS RACLIST(DIGTCERT, DIGTRING) REFRESH
RACDCERT ID(JQP) LIST
RACDCERT ID(JQP) LISTRING(JQP_KEYRING)
//
```

Note: Change the JQP\_KEYRING keyring name for your installation requirements.

Note: Change the ID(JQP) parameter to your installation requirements.

Note: Change the LABEL('HP PRINTER 2430') parameter to your installation requirements.

Note: Change the ADD('hlq.JQPCERT.printer') parameter to the dataset created by JQP containing the printer's certificate.

## Section III

### Table Reference

#### 3.1 General Table Information

This section contains a reference for each of the JQP tables. The tables described in this section include:

<u>Table</u>	<u>Table Name</u>	<u>Function</u>
JQPFDPCM	Command	Sets security for JQP commands.
JQPFDPCF	Control	Specifies internal control parameters, buffer sizes, and global defaults.
JQPFDPCS	JES Destinations	Specifies the destinations where JQP selects reports from the JES output queue.
JQPFDPCM	Logon Macro	Specifies groups of commands executed during user LOGON.
JQPFDPCM	Message	Specifies JQP message text
JQPFDPCP	Physical	Specifies printer and terminal names used by JQP
JQPFDPCX	Printer Group	Logically groups printers for limiting access to users.
JQPFDPCU	User	Authorizes user access to JQP and other features
JQPFDPCV	LDP Control File	Controls the creation of the LPD control file for the report.
JQPFDPCW	Print Transform	Specifies the AFP print transform member options used to convert AFP to PCL and Postscript.
JQPFDPEJ	Email Job Name Table	Specifies the email job name table.
JQPFDPNT	Font Name Table	Specifies the font number and name used by print transforms.
JQPFTBSE	Printer Security	Specifies report OWNER ID to printer security.
JQPFTBST	Automatic Restart	Specifies the automatic restart for failed status codes.

Note: The JQPFDPCS, JQPFDPCP, JQPFDPCW and JQPFDPCU tables are only used to migrate JQP entries to the VSAM file.

### 3.1.1 General Table Format

The following information is provided for each of the tables described in this section:

Table purpose  
Special customization considerations  
Table format  
Parameter descriptions  
Examples

The table format lists the complete syntax for the tables using the following notation:

Square brackets [ ] indicate an optional parameter.  
Braces { } indicate you must choose one of the values inside.  
A vertical bar | separates the values.  
Default parameters or values are underlined.

### 3.1.2 Assembling Tables

During the installation of JQP all tables were installed in both source and assembled object form. Only tables modified must be assembled. Sample assembly JCL is in the member ASSEMBLE.

## 3.2 JQPFDFCM - Command Table

The command processor uses the command table to determine the load module to process a particular command. It also uses the table to determine whether a particular user is allowed to use a command and the fields on the administration screens the user is allowed to access.

The JQPFDFCM command table may be customized when desired. Command variations may be added or deleted. Security can be changed. The following is an excerpt from the command table assembly source as distributed with JQP:

---

```
JQPFDFCM CSECT
  JQP$DFX TYPE=INITIAL
  JQP$DFX TYPE=ENTRY,CMS='B    ',PHASE=JQPCBOTM,SEC=1111
  JQP$DFX TYPE=ENTRY,CMS='BA   ',PHASE=JQPCBACK,SEC=1111
  JQP$DFX TYPE=ENTRY,CMS='BACK ',PHASE=JQPCBACK,SEC=1111
  JQP$DFX TYPE=ENTRY,CMS='BACKWARD',PHASE=JQPCBACK,SEC=1111
  JQP$DFX TYPE=ENTRY,CMS='BOT  ',PHASE=JQPCBOTM,SEC=1111
  JQP$DFX TYPE=ENTRY,CMS='BOTTOM ',PHASE=JQPCBOTM,SEC=1111
    .
  JQP$DFX TYPE=ENTRY,CMD='CHANGE ',PHASE=JQPCCHAN,SEC=0011, X
    SWITCH=10000000
    .
* -----
* PLACE SCREEN SECURITY ENTRIES HERE
* -----
  JQP$DFX TYPE=SECURE,SCREEN=JQPFDIXI,FIELD=DESC,SEC=0011
    .
  JQP$DFX TYPE=FINAL
  END
```

---

The SEC parameter data is interpreted as follows. Each of the four digits corresponds to one of the four classes of users (USER, EXTU, OPER, ADM). When the digit is 1, users of the associated class are allowed to use the command. When the digit is 0, they are not allowed to use the command. For example, the SHUT command can be used only by OPER and ADM users. USER and EXTU users are not allowed to use the SHUT command.

The SWITCH parameter is interpreted as follows. Each of the eight digits corresponds to one of the eight functions. When the digit is a 1, the function is enabled. The SWITCH parameter requires all eight digits be specified.

Switch (1): The command is permitted on the user's command stack for later retrieval.

Switch (2): Not Used

Switch (3): Not Used

Switch (4): Not Used

Switch (5): Not Used

Switch (6): Not Used

Switch (7): Not Used

Switch (8): Not Used

### 3.3 JQPFDFCT - Control Table

The JQP Control Table (JQPFDFCT) is a table containing JQP system and internal control parameters. Not all parameters in the Control Table are eligible for NEWCOPY. The following sections are special considerations concerning the customization of the JQPFDFCT table.

#### 3.3.1 JQPFDFCT Format

```
JQP$DFC [, ACQUIRE={YES|EXT|NO}]
[, APPL={xxxxxxxx|JQP}]
[, ARM={YES|NO}]
[, AUDIT=(DFU,DFS,DFP,DFT) ]
[, AUTOL={YES|NO}]
[, BUFPRTS={####|100}]
[, CADISP=(xxxxxxxx, {144|128-255})
[, CIPHER=(2|4), cipher)
[, CLASS=xxxxxxxx]
[, CNSL=( {WTOR|MODIFY}, {1-16}, {YES|NO}) ]
[, CONNECT=( {nnn|10}, {nnn|30}, {nnn|10}, {nnn|60},
      {nnn|10}, {nnn|2}, {nnn|0}, {nnn|2}) ]
[, CONTINU={YES|NO}]
[, CTOKEN={YES|NO}]
[, CURSOR={CMD|FIELD}]
[, DFLAGS=( {YES|NO}, {YES|NO}, {YES|NO}, {YES|NO},
      {YES|NO}, {YES|NO}, {YES|NO}, {YES|NO})
[, DFLAG2=( {YES|NO}, {YES|NO}, {YES|NO}, {YES|NO},
      {YES|NO}, {YES|NO}, {YES|NO}, {YES|NO})
[, DFLAG3=( {YES|NO}, {YES|NO}, {YES|NO}, {YES|NO},
      {YES|NO}, {YES|NO}, {YES|NO}, {YES|NO})
[, DFLAG4=( {YES|NO}, {YES|NO}, {YES|NO}, {YES|NO},
      {YES|NO}, {YES|NO}, {YES|NO}, {YES|NO})
[, DFLAG5=( {YES|NO}, {YES|NO}, {YES|NO}, {YES|NO},
      {YES|NO}, {YES|NO}, {YES|NO}, {YES|NO})
[, DISP=( {DELETE|HOLD|RETAIN}, writer, class, destination, form, {ACTIVE|HOLD}) ]
[, DYPHY={YES|NO}]
[, DYNLOGS={YES|NO}]
[, DYNUSER=( {YES|NO}, {YES|NO}) ]
[, ERRACT=(FAIL,DRAIN) ]
[, FCBCONT={YES|NO}]
[, FLAGA=( {1|0}, {1|0}, {1|0}, {1|0}, {1|0}, {1|0}, {1|0}, {1|0}) ]
[, FLAGB=( {1|0}, {1|0}, {1|0}, {1|0}, {1|0}, {1|0}, {1|0}, {1|0}) ]
[, FLAGC=( {1|0}, {1|0}, {1|0}, {1|0}, {1|0}, {1|0}, {1|0}, {1|0}) ]
[, FLAGD=( {1|0}, {1|0}, {1|0}, {1|0}, {1|0}, {1|0}, {1|0}, {1|0}) ]
[, GDDM=( {xxxx|JQPG}, {####|16}) ]
[, HLQ={xxxxxxxx|applid} | ( {xxxxxxxx|applid}, Q1, Q2, Q3, Q4) ]
[, INIT=( {YES|NO}, xxxxxxxx)
[, IP6HOST=xxxx:xxxx:xxxx:xxxx:xxxx:xxxx:xxxx:xxxx]
[, IREQ=( {YES|NO}, {YES|NO}, {YES|NO}, {YES|NO}, nnn) ]
[, JES3={YES|NO}]
[, LCFGRP={xxxxxxxx|SYSTEM}]
[, LEOPTS=( 'option', 'option', 'option', ...)]
[, LMPEO={YES|NO}]
[, LRTNS=( nn, nn, nn, nn, nn, nn, nn, nn, nn) ]
[, MAILFROM=xxxxxxxx]
[, MAILHOST={xxx.xxx.xxx.xxx|hostname}]
[, MAILMS=xxxxxxxx]
[, MAILOPTS=( {#|5}, {#|5}, {#####|10000}, {NO|YES}) ]
[, MAILPORT={nnnnn|25}]
[, MAILPSWD={xxxxxxxx}]
```

```

[, MAILQNAM={xxxxxxxx}]
[, MAILTO=xxxxxxxx;xxxxxxxx]
[, MAILUSER={xxxxxxxx}]
[, MASKALP={x|*}]
[, MASKNUM={x|#}]
[, MAXUSER={nnnn|6}]
[, MPT=[{YES|NO}]
[, MPTCLS=x]
[, MPTFLAG={1|0},{1|0},{1|0},{1|0},{1|0},{1|0},{1|0},{1|0}]
[, MPTGRP={0|1|2|3}]
[, MPTHOST={xxx.xxx.xxx.xxx|hostname}]
[, MPTPACE={nnn|4000}]
[, MPTPORT={nnnn|8888},{nnnn|0}]
[, MPTSEL={NONE|XWTR|DEST|FORM|FCB|FLASH|EXIT|PAGEDEF|FORMDEF}]
[, NODE=xxxxxxxx]
[, NOTIFY={({YES|NO},{YES|NO},{YES|NO},{YES|NO},{xxx|NORMAL},{xxx|NORMAL})]
[, PRTGRP=xxxxxxxx]
[, PJLPACE=(nnnn|4000,nnnn|40000)]
[, PWD1=xxxxxxxxxxxxxxxxxxxx]
[, PWD2=xxxxxxxxxxxxxxxxxxxx]
[, PWD3=xxxxxxxxxxxxxxxxxxxx]
[, PWD4=xxxxxxxxxxxxxxxxxxxx]
[, PWD5=xxxxxxxxxxxxxxxxxxxx]
[, PWD6=xxxxxxxxxxxxxxxxxxxx]
[, PWQFORM={YES|NO}]
[, PXRACF={({YES|NO},{size|32})]
[, REQUEUE={({DELETE|HOLD|RETAIN},writer,class,destination,form,
{ACTIVE|HOLD})]
[, SECMENU=(update,add,delete,purge,release,hold,force)]
[, SECURE={({INTERNAL|RACF|TOP|ACF2},{NO|YES},{class|FACILITY},
prefix,{NO|YES},{NO|YES})]
[, SECUXT={YES|NO}]
[, SECVRFY={YES|NO}]
[, SEPEXIT={1|2|3|4|5}]
[, SETSEL={NONE|XWTR|DEST|FORM|FCB|FLASH|EXIT|FORMDEF|PAGEDEF}]
[, SMF6={YES|NO}]
[, SUBTASK={({3-255|3},active),{0|#}]
[, TASKS={nnnn|20}]
[, TCPHOST=xxx.xxx.xxx.xxx]
[, TCPIP={({YES|NO},{nnnnn|721},{nnnnn|731},{0|1-32767},{0|1-300})]
[, TITLE={'xxxxxxx'|'JES Queue for Printers'}]
[, TLS=(version,keyring)]
[, TRBSIZE={8192 - 32736|8192}]
[, UFLAG1={({YES|NO},{YES|NO},{YES|NO},{YES|NO},
{YES|NO},{YES|NO},{YES|NO},{YES|NO})]
[, UNIT={({xxxxxxxx|SYSALLDA},VOLSER,STORCLAS,MGMTCLAS,DATACLAS,{YES|NO},
{10-100|25})]

```

The parameters are specified on the following pages. The options underlined represent the default options.

## ACQUIRE

The JQP LOGON screen displays a message when a user is trying to LOGON and the user is already LOGGED ON another terminal.

ACQUIRE= <u>YES</u>	gives the user the opportunity to ACQUIRE the user with a valid password and authorization.
EXT	gives the ACQUIRE function only to users defined with Administrator, Operator, or Extended User (ADM, OPER, EXTU) classes.
NO	prevents the LOGGED ON user from being acquired.

## APPL

The application name defined to VTAM. Users LOGON to this application name to gain access to JQP. **This parameter cannot be changed with the NEWCOPY command. To change this parameter, recycle JQP.**

APPL= <u>JQP</u>	
character	1 to 8 byte character name

## ARM

Support for z/OS Automatic Restart Management (ARM).

ARM= <u>NO</u>	JQP does not support Automatic Restart Management (ARM).
YES	JQP supports Automatic Restart Management (ARM).

## AUDIT

The JQP record types to audit. Any number of combinations can be specified. Audit entries are written to the JQPLOG showing the old and new value for the field changed and the user changing the record.

AUDIT=	
DFU	User record changes audited.
DFP	Printer and Terminal record changes audited.
DFS	Destination record changes audited.
DFT	Print Transform Member record changes audited.

## AUTOL

Dynamic physical terminals bypass the JQP LOGON screen. The JQP user-ID is automatically the same name as the physical terminal VTAM NETNAME.

AUTOL= <u>NO</u>	send the JQP LOGON screen to the user, requiring sign on.
YES	bypasses the JQP LOGON screen for dynamic terminals.

## BUFPRTS

Estimated number of printers defined to JQP. Most of the JQP starting buffer pools allocations are based on this value. **This parameter cannot be changed with the NEWCOPY command. To change this parameter, recycle JQP.**

```
BUFPRTS= 100  
          value
```

## CADISP

The CA/Dispatch job name and SMF record type. When a report with the same name as the CA/Dispatch job name is printed successful, JQP writes a SMF record with the type specified.

```
CADISP= 144  
          value          128 to 255
```

## CIPHER

The optional cipher type and custom cipher. Available ciphers (and cipher used if none is specified with this keyword) are documented in IBM Manual *System SSL Programming Document Number: SC24-5901-08* in section `gsk_environment_open()`.

```
CIPHER= (2|4,cipher)
```

Parameter 1: 2           Two-square cipher.  
              4           Four-square cipher.

Parameter 2:           a custom cipher (1 to 256 characters) used for Transport Level Security (TLS).

## CLASS

One to eight JES Output Queue classes to use for report selection. When no class is specified, reports with any class are selected for printing. Class may also be specified on the destination entry and override this value.

**NOTE: Destinations must be recycled (drained/started) to pick up the new value after the control table is new copied.**

```
CLASS=  
      character   A-Z, 0-9
```

## CNSL

Indicates console options in use. See Section [1.3 – Using JQP from the System Console](#)

**This parameter cannot be changed with the NEWCOPY command. To change this parameter, recycle JQP.**

CNSL= (WTOR|MODIFY, 1-16, YES|NO)

Parameter 1: WTOR use the console reply command to communicate to JQP.  
MODIFY use the console modify command to communicate to JQP

Parameter 2: 1 | *value* the z/OS console route code (1 to 16).

Parameter 3: YES the JQP command output is written to the JQPLOG for JQP commands are issued from the console.  
NO the JQP command output is not written to the JQPLOG for JQP commands are issued from the console.

## CONNECT

TCP/IP connect socket options in use.

CONNECT= (nnn|10, nnn|30, nnn|10, nnn|60, nnn|10, nnn|2, nnn|0, nnn|2)

The first and second parameters control Connect Socket failures.

Parameter 1: nnn|10 the number of times (1 to 255) JQP retries the failed TCP/IP printer connection (TCP/IP error numbers 61 “connection refused” and 48 “address in use”) before an error is posted.  
Parameter 2: nnn|30 the amount of time in seconds (1-255) JQP waits between each connection retry.

Parameter 3: nnn|10 the number of minutes (1-255) JQP waits before restarting the print request failing with a TCP/IP or VTAM communication error.

Parameter 4: nnn|60 the number of seconds (1-255) JQP waits before retrying the INITAPI in the event the connection between JQP and TCP/IP has terminated.

Parameter 5: nnn|10 the number of times (1 to 255) JQP retries the failed TCP/IP Bind command before an error is posted.

Parameter 6: nnn|2 the amount of time in seconds (1-255) JQP waits between each Bind retry.

Seventh and eighth parameters control broken socket failures for “open socket” printers.

Parameter 7: nnn|0 the number of retries (0-255) to restart printing after the connection is broken (TCP/IP error number 32). Specify zero to disable the automatic restart.

Parameter 8: nnn|2 the number of seconds (1-255) to wait before automatically restarting the printer.

## CONTINU

Allow JQP to continue executing commands for a user's LOGON macro string (see [3.5 JQPFDFMC – Logon Macro Table](#)) when an error occurs on a command within the macro string. Commands within the LOGON macro may or may not be dependent on the previous command completing successfully. For this reason CONTINU=NO is the default.

CONTINU= NO terminates the LOGON macro at the last unsuccessful command in the command string with a message indicating the reason for failure.  
YES causes all commands within the LOGON macro to execute regardless of any errors and no messages display unless the error occurs on the last command.

## CTOKEN

Allow JQP to use the JES token to reposition to the first data set within the report

**This parameter cannot be changed with the NEWCOPY command. To change this parameter, recycle JQP.**

**Note:** CTOKEN=YES is required when MPT=YES is specified.

CTOKEN= NO use the job name and number combination to reposition to the first data set within the report.  
YES use the CTOKEN to reposition to the first data set within the report.

## CURSOR

The location the cursor is initially positioned on the administration update screens.

CURSOR= FIELD position the cursor using the CURSOR=*name* specified in the definition member GSFDIxx for the screen. Reference [2.1.13 JQPFDIxx Format](#).  
CMD position the cursor at the command line field.

## DFLAGS

The default destination option flags. To enable the flag, set to "YES".

DFLAGS= (YES | NO, YES | NO, YES | NO, YES | NO, YES | NO, YES | NO, YES | NO, YES | NO)

Flag 1:YES | NO support PCL commands within the print line.  
Flag 2:YES | NO support the UEL command within the print line.  
Flag 3:YES | NO support Lexmark Barcode commands within the print line.  
Flag 4:YES | NO bypass carriage control processing, treats carriage control as data.  
Flag 5:YES | NO add a blank line for ASA reports with Feed=Special.  
Flag 6:YES | NO remove multiple "Skip to Channel 1 Immediate" commands.  
Flag 7:YES | NO remove blank lines at the end of the page.  
Flag 8:YES | NO allow both ASA and MCC carriage control in the same print data set.

## DFLAG2

The default destination option flags second set. To enable the flag, set to "YES".

DFLAG2= (YES | NO, YES | NO, YES | NO, YES | NO, YES | NO, YES | NO, YES | NO, YES | NO)

Flag 1:YES | NO create a GDG data set for the \$FILE printer.  
Flag 2:YES | NO truncate trailing spaces and nulls.  
Flag 3:YES | NO ignore the JES copies parameter and prints one copy only.  
Flag 4:YES | NO bypass print line truncation.  
Flag 5:YES | NO call exit program JQPFEX01.  
Flag 6:YES | NO for printer \$FILE, submit JCL after the report has successfully printed.  
Flag 7:YES | NO for SCS printers, send Form Feed prior to Set Vertical Format.  
Flag 8:YES | NO for destinations using RAW=1, JQP prints the separator page using ASCII translate table (TCP/IP printers only).

## DFLAG3

The default destination option flags third set. To enable the flag, set to "YES".

DFLAG3= (YES | NO, YES | NO, YES | NO, YES | NO, YES | NO, YES | NO, YES | NO, YES | NO)

Flag 1: <u>YES</u>   NO	submit the following console command after each report is successfully printed: \$TO J( <i>jobid</i> ), OUTGRP= <i>grp</i> id, NDISP=HOLD
Flag 2: <u>YES</u>   NO	call exit program JQPFEX04.
Flag 3: YES   <u>NO</u>	removes blank lines at the top of the page.
Flag 4: YES   <u>NO</u>	bypass check for RAW=7 or RAW=9 to insure each data set starts with a forms feed.
Flag 5: YES   <u>NO</u>	Unused
Flag 6: YES   <u>NO</u>	add a New Line Sequence at End of Report for reports without carriage control.
Flag 7: YES   <u>NO</u>	eliminate Cursor Return command for "write without spacing".
Flag 8: YES   <u>NO</u>	force the JQP trace graphic presentation to display as ASCII.

## DFLAG4

The default destination option flags fourth set. To enable the flag, set to "YES".

DFLAG4= (YES | NO, YES | NO, YES | NO, YES | NO, YES | NO, YES | NO, YES | NO, YES | NO)

Flag 1: <u>YES</u>   NO	Unused
Flag 2: <u>YES</u>   NO	Unused
Flag 3: YES   <u>NO</u>	Unused
Flag 4: YES   <u>NO</u>	Unused
Flag 5: YES   <u>NO</u>	Unused
Flag 6: YES   <u>NO</u>	Unused
Flag 7: YES   <u>NO</u>	Unused
Flag 8: YES   <u>NO</u>	Unused

## DFLAG5

The default destination option flags fifth set. To enable the flag, set to "YES".

DFLAG5= (YES | NO, YES | NO, YES | NO, YES | NO, YES | NO, YES | NO, YES | NO, YES | NO)

Flag 1: <u>YES</u>   NO	Unused
Flag 2: <u>YES</u>   NO	Unused
Flag 3: YES   <u>NO</u>	Unused
Flag 4: YES   <u>NO</u>	Unused
Flag 5: YES   <u>NO</u>	Unused
Flag 6: YES   <u>NO</u>	Unused
Flag 7: YES   <u>NO</u>	Unused
Flag 8: YES   <u>NO</u>	Unused

## DISP

Report's disposition after printing is complete.

DISP= ( {DELETE|HOLD|RETAIN} , writer , class , destination , form , {ACTIVE|HOLD} )

DELETE           purge the report from the JES Queue after printing.

HOLD               alter the report in the JES Queue to hold.

RETAIN, writer , class , destination , form , {ACTIVE|HOLD}

alter the report's writer name, class, destination and/or form and retains the report in the JES Output queue in an active or hold state.

Note: Using an "\*" in writer, class, destination, and/or form indicates this parameter does not change.

Note: Use ' ' to blank the writer name, default is PRINTED.

Note: Use LOCAL to blank the destination.

Note: Use STD to blank the form.

Note: Valid classes are A-Z, 0-9.

**Note: JQP places the report in a HOLD status in the event the retain parameters allow report reselection by the same destination.**

Note: DISP may be specified on the destination entry to override this value.

Note: When APAR OW45495 is applied and DISP=DELETE, the final disposition of a SYSOUT data set is based on the JCL OUTDISP parameter. For OUTDISP=WRITE, the SYSOUT data set is deleted. For OUTDISP=KEEP, the SYSOUT data set final disposition is LEAVE. The report is moved from the JES Output queue to the JES Held queue. JQP messages always display the final disposition of DELETE.

## DYPHY

JQP allows terminals not defined to start a session with JQP, creating a dynamic physical terminal from the VTAM definition.

DYPHY= YES           dynamic physical terminal creation is in effect.

NO                   dynamic physical terminal creation is not in effect.

## DYNLOGS

Support for JQPLOG data set dynamic allocation.

DYNLOGS= YES            the JQPLOG log is dynamically allocated.  
          NO             the JQPLOG log requires adding a DD to the started task or job JCL.

Note: For DYNLOGS=NO, add the JCL SEGMENT parameter to the JQPLOG DD to force segmentation of the logs after the specified number of pages are written.

## DYNUSER

Allow users not defined to JQP to LOGON to JQP, creating a dynamic user.

DYNUSER= (YES | NO, YES | NO)

Parameter 1: YES            dynamic users are allowed for external security installations.  
              NO             dynamic users are not allowed.

Second parameter specifies whether JQP should use RACF calls to set the dynamic user's attributes.

Parameter 2: NO            JQP does not use RACF calls to set the dynamic user's attributes.  
              YES             JQP uses RACF calls to set the dynamic user's attributes.

## ERRACT

The error action taken when printing fails. With either option, automatic restart is controlled by the Automatic Restart Table JQPFTRST.

ERRACT= FAIL            The destination is placed into an FAIL-xx status. The report being printed remains allocated to JQP.  
          DRAIN            The destination is placed into an ERAINED status. The report being printed is released by JQP.

## FCBCONT

FCB not found in SYS1.IMAGELIB processing option.

FCBCONT= NO            JQP does not process the report when the FCB for the report is not in SYS1.IMAGELIB.  
          YES            JQP continues processing the report when the FCB for the report is not in SYS1.IMAGLIB.  
                          JQP uses the following default FCB information: Channel 1 on Line 1, Maximum Print  
                          Lines (MPP) equal 66 and Lines Per Inch (LPI) equal 6.

## FLAGA

System option flags A. To enable the flag, set to "1".

FLAGA= (1|0, 1|0, 1|0, 1|0, 1|0, 1|0, 1|0, 1|0)

Flag 1:1|0            routine to set a flag when any print line contains non-blank characters after position 84 (includes all data sets in the report). This flag is passed to Setup Module Selection exit JQPFPRSX.

**Note: This option not available for printer \$FILE.**

Flag 2:1|0            for printer \$FILE, call exit JQPFEX02 to customize the data set name allocated for the report.

Flag 3:1|0            uses temporary data sets for the LPD work files.

Flag 4:1|0            omit the blank line before the first print line of the JES data set is printed. The blank line is produced for JQP destinations with RAW equal 7 or 9 and for reports with no carriage control.

Flag 5:1|0            in the event of a SAPI logic error (status FAIL-15 and FAIL-09), the destination is placed into an EDRAINED status.

Note: The Automatic Restart Table JQPFTRST is available to automatically restart destinations in an EDRAINED status.

Flag 6:1|0            for SCS printers, bypass the Setup Module name check and send the data ASIS.

Flag 7:1|0            when the FCB name is used for Setup Module selection, prefix the FCB name with the literal JQP2. For example, FCB=8 results in the setup module name JQP28.

Flag 8:1|0            enable printer \$FILE print line translation. The translate table defined in the destination entry is used to translate the print line. In addition, PCL UEL and Lexmark translation is available.

## FLAGB

System option flags B. To enable the flag, set to "1".

FLAGB= (1|0, 1|0, 1|0, 1|0, 1|0, 1|0, 1|0, 1|0)

Flag 1:1|0            support for large reports (over 2,147,483,647 bytes) sent to a LPD server.  
Note: Support for the 64bit instruction CVDG is required.

Flag 2:1|0            Unused

Flag 3:1|0            Unused

Flag 4:1|0            Unused

Flag 5:1|0            Unused

Flag 6:1|0            Unused

Flag 7:1|0            Unused

Flag 8:1|0            Unused

## FLAGC

System option flags C. To enable the flag, set to “1”.

FLAGC= (1|0, 1|0, 1|0, 1|0, 1|0, 1|0, 1|0, 1|0)

Flag 1:1   0	Unused
Flag 2:1   0	Unused
Flag 3:1   0	Unused
Flag 4:1   0	Unused
Flag 5:1   0	Unused
Flag 6:1   0	Unused
Flag 7:1   0	Unused
Flag 8:1   0	Unused

## FLAGD

System option flags D. To enable the flag, set to “1”.

FLAGD= (1|0, 1|0, 1|0, 1|0, 1|0, 1|0, 1|0, 1|0)

Flag 1:1   0	Unused
Flag 2:1   0	Unused
Flag 3:1   0	Unused
Flag 4:1   0	Unused
Flag 5:1   0	Unused
Flag 6:1   0	Unused
Flag 7:1   0	Unused
Flag 8:1   0	Unused

## GDDM

The options used to process GDDM reports.

GDDM= (xxxx|JQPG,###|16)

First parameter is the VTAM APPLID prefix of pool names used by GDDM to print the report.

Parameter 1: JQPG

xxxx 1 to 4 byte prefix name

Second parameter is number (1 to 255) of VTAM APPLIDs in the pool.

Parameter 2: 16

### 1 to 255

JQP identifies a GDDM data set using the GDDMCLS parameter in the Physical Table and calls GDDM module ADMOPUJ. JQP passes the VTAM printer NETNAME to GDDM where the report prints. The GDDM module establishes a VTAM session with the printer. JQP assigns the VTAM APPLID used by GDDM from a pool of names and passes the name to the GDDM module. The first time GDDM is called, the APPLID name passed is JQPG0001, and the second is JQPG0002 and continues through the number specified. After the last APPLID name in the pool is used, JQP restarts from the first APPLID in the pool. Each APPLID in the pool must be defined to VTAM.

Example VTAM APPLID definition follows:

JQPG0001 APPL AUTH=(ACQ,VPACE),EAS=1

The GDDM load library containing the ADMOPUJ module must be APF authorized and added to the JQP STEPLIB DD.

## HLQ

The High Level Qualifier (HLQ) is used for the TCP/IP printer temporary data sets and specifies the data set name for reports printed to a z/OS data set. The HLQ parameter may contain up to 24 characters. The HLQ must conform to data set naming conventions. After the HLQ, specify four of the following options in any order to create the data set name for reports printed to a z/OS data set.

HLQ= xxxxxxxx|applid | ([xxxxxxx|applid], Q1, Q2, Q3, Q4)

DDNAME	JQP#####, where ##### is a number between 1 and 99,999.
DEST	Destination Name
JOBNAME	Report's Job Name
JOBID	Report's JOB ID
XWRITER	Report's JES XWRITER Name
FORM	Report's Form ID
TIME	The time the data set is created (format Thhmmss)
DATE	Day the data set is created (format Dyyyddd).

Default file name is HLQ.DDNAME.DEST.JOBNAME.JOBID.

Note: In the event of a duplicate data set name, JQP automatically increments the DDNAME field and retries the dynamic allocation up to ten times. **Using DDNAME is recommended.**

Note: When the FORM doesn't start with an alphabetic or national character, the FORM is prefixed with the character "\$". A z/OS qualifier can only be eight bytes in length. When the FORM is prefixed with a "\$", the FORM is truncated to seven characters.

Note: Any invalid character in the data set name will be replaced with the character "\$".

## INIT

INIT= (YES | NO, xxxxxxxx)

First parameter controls the printers (defined with ISTATUS=ACTIVE) started during JQP initialization.

Parameter 1: YES            During JQP initialization, all the printers with ISTATUS=ACTIVE are started. This is the normal setting to allow printing to start when JQP is started.  
                  NO            During JQP initialization, no printers are started.

Second parameter is PDS member name in the JQPCNTL data set containing JQP commands execute at startup.

Parameter 2: *character*            1 to 8 bytes

## IP6HOST

The optional IPv6 address for the local host JQP is executing in. Normally, JQP will BIND SOCKET using the "any local" address. Optional, JQP can BIND SOCKET with the local IPv6 address specified. Specify an IPv6 address (maximum 45 characters) in the standard "colon hexadecimal" format.

Note: Omit this parameter or specify IP6HOST=: to use "any local" address.

IP6HOST= xxxx:xxxx:xxxx:xxxx:xxxx:xxxx:xxxx:xxxx IPv6 host address

## IREQ

The printer intervention required message JQPRTIMI01 parameters.

(YES | NO, YES | NO, YES | NO, YES | NO, nnn)

### First parameter controls VTAM type printers.

In the event a VTAM I/O does not complete before the intervention interval value (parameter 5) is exceeded, JQP sends message JQPRTIMI01 to the system console to notify the operator intervention is required for the printer displayed in the message.

Parameter 1: <u>YES</u>	Message JQPRTIMI01 is sent for VTAM type printers.
NO	Message JQPRTIMI01 is not sent for VTAM type printers.

### Second parameter controls TCP/IP type printers.

In the event a TCP “write socket” does not complete before the intervention interval value (parameter 5) is exceeded, JQP sends message JQPRTIMI01 to the system console to notify the operator intervention is required for the printer displayed in the message.

Parameter 2: <u>NO</u>	Message JQPRTIMI01 is not sent for TCP/IP type printers.
YES	Message JQPRTIMI01 is sent for TCP/IP type printers.

### Third parameter controls the JQPRTIMI01 message highlight.

The JQPRTIMI01 message is sent with or without the z/OS console route code specified in the [CNSL](#) parameter. Using the correct z/OS console route code can cause the message to highlight on the system console.

Parameter 3: <u>NO</u>	Message JQPRTIMI01 is sent without the z/OS console route code.
YES	Message JQPRTIMI01 is sent with the z/OS console route code.

### Fourth parameter controls multiple console messages.

The JQPRTIMI01 message can be sent only once, or after each time the intervention interval is exceeded. For example, with intervention interval set to 10 minutes, the JQPRTIMI01 message is sent every 10 minutes until the printer intervention problem is corrected.

Parameter 4: <u>NO</u>	Message JQPRTIMI01 is sent to the system console only once.
YES	Message JQPRTIMI01 is sent to the system console each time the intervention interval is exceeded.

### Fifth parameter controls the JQPRTIMI01 message interval.

The printer intervention interval specified in minutes.

Parameter 5: <u>1</u>	default, send message JQPRTIM01 after waiting for one minute.
nnn	value 1 to 255. Specify zero to disable the printer intervention message feature.

## JES3

This parameter is only used to determine the command syntax to delete, release, hold and/or change the report's attributes on the system spool.

JES3= <u>NO</u>	JQP is operating in a JES2 environment.
YES	JQP is operating in a JES3 environment.

## LCFGRP

The default LPD control file group used to construct the LPD control file sent to the LPD server when the report is printed.

LCFGRP= xxxxxxxx|SYSTEM LPD control file group

## LEOPTS

Specifies the Language Environment (LE) runtime options, up to 255 bytes. Modify these only at MacKinney Systems technical support's request. Each option is entered enclosed within quotes, separated by commas.

```
LEOPTS= ('MSGFILE (LELOG , FBA, 121, 0, NOENQ) ',  
        'XPLINK (ON) ',  
        'ENVAR (" CEE ENVFILE S=DD:CEEENV" ) ',  
        'RPTOPTS (OFF) ',  
        'RPTSTG (OFF) ',  
        'STACK (56K, 16K, ANYWHERE, ) ',  
        'HEAP (20M, 1M, ANY, FREE) ',  
        'ANYHEAP (1500K, 256K, ANY, FREE) ',  
        'POSIX (ON) ',  
        'TERMTHDACT (UAIMM, , 256) ',  
        'TRAP (ON, NOSPIE) ')
```

## LMPEO

JQP should take advantage of the VTAM Large Message Performance Enhancement Option, requires VTAM version 2 or higher.

**This parameter cannot be changed with the NEWCOPY command. To change this parameter, recycle JQP.**

LMPEO= <u>YES</u>	JQP uses the VTAM Large Message Performance Option.
NO	JQP does not use the VTAM Large Message Performance Option.

## LRTNS

One to eight default line routines to handle special print line processing. Place line routines in any order, they are processed from left to right.

LRTNS= (nn, nn, nn, nn, nn, nn, nn, nn)      One to eight default line routines

- 01    No operation routine
- 02    Each print line is checked for the character string x'5FC5' in columns one and two. When present, all x'5F' characters are translated to x'27'. The x'27' character is translated to x'1B' during normal EBCDIC to ASCII processing.
- 03    Special customer request to remove the ASCII space x'20' or EBCDIC space x'40' after the Shift-Out character x'0E' and before the Shift-In character x'0F'.
- 04    Optional feature; Line exit to look for the literal "#VPS#HPC HEX - " in column one and translate the following two hexadecimal bytes to a single binary byte.  
Note: Translation terminates at the end of the line or when a space character is found. All characters after the space character are bypassed.  
Note: When translation fails, the un-translated line is printed.  
Note: Carriage control processing is bypassed for lines with a carriage control character of "Z".  
Example: Line "#VPS#HPC HEX - 1B45" is translated to x'1B45'.
- 05    Truncates the trailing spaces before the JQP raw routines process the print record.
- 06    Special customer request to inverse the print line and not truncate the print line. The print line must not exceed 256 bytes.
- 07    Translates Machine Carriage Control (MCC) to ANSI Carriage Control (ASA).
- 08    Removes the SCS transparent character x'35' and the following length byte from the print line.
- 09    Checks for the SCS transparent character x'35' in column one and sends the transparent data to the printer without translation or truncation.
- 10    Scans for the SCS transparent character x'35' in the print line. Following the x'35' is the length byte. The number of bytes (immediately following the length byte) represented by the value in the length byte are moved to the output buffer ASIS. All other bytes in the print line are translated using the Translate table specified in the destination definition.

## MAILFROM

The TCP/IP email from address (reverse-path) for the JQP email notifications. The TCP/IP email from address can be up to 64 bytes.

MAILFROM= xxxxxxxx 1 to 64 characters

## MAILHOST

The TCP/IP address or the TCP/IP hostname for the SMTP mail server. The TCP/IP hostname can be up to 64 bytes.

MAILHOST= xxx.xxx.xxx.xxx|hostname 1 to 64 characters

## MAILMS

The TCP/IP email address for MacKinney Systems technical support. The TCP/IP email address can be up to 64 bytes.

MAILMS= xxxxxxxx 1 to 64 characters

## MAILOPTS

The email notification options defined.

MAILOPTS= [#|5], [#|5], [#####|10000], [NO|YES]

Parameter 1: #|5 the number of times when the email notification fails.

Parameter 2: #|5 the amount of time in seconds (1-255) JQP waits between each connection retry.

Parameter 3: #####|10000 specifies the maximum number of JQPLOG lines to accumulate to send to MacKinney Systems technical support.

Parameter 4: NO do not use SMTP authentication.  
YES use SMTP authentication. The Control Table parameters MAILQNAM, MAILUSER and MAILPSWD are required.

## MAILPORT

The SMTP port number defined. The normal SMTP port number is 25

MAILPORT= #####|25

## MAILPSWD

The SMTP email sever password.

Note: The parameter is required and only used when the MAILOPTS parameter 4<sup>th</sup> option is set to YES.

MAILPSWD= xxxxxxxx 1 to 64 characters

## MAILQNAM

The name used to authenticate JQP with the SMTP server. A Fully Qualified Domain Name consists of a hostname and domain name. For example, www.mackinney.com is a fully qualified domain name where www is the hostname and mackinney.com is the domain name. The rightmost part in the domain name (.com in our example) is called a top level domain.

Note: The parameter is required and only used when the MAILOPTS parameter 4<sup>th</sup> option is set to YES.

MAILQNAM= xxxxxxxx 1 to 64 characters

## MAILTO

One or two TCP/IP email notification addresses. The second email notification address must be separated from the first by a semicolon. Both TCP/IP email notification addresses combined are limited to 64 bytes. Specify the email notification addresses on the printer entry to override this value.

MAILTO= xxxxxxxx:xxxxxxx 1 to 64 characters

## MAILUSER

The SMTP email sever user name.

Note: The parameter is required and only used when the MAILOPTS parameter 4<sup>th</sup> option is set to YES.

MAILUSER= xxxxxxxx 1 to 64 characters

## MASKALP

The masking alpha character defined. See Section [4.4.6.5 JQP Menu System - Masking Users](#) or [4.4.5.5 JQP Menu System - Masking Physical Terminals](#). Default is '\*'.

MASKALP= x|\*

## MASKNUM

The masking numeric character defined. See Section [4.4.6.5 JQP Menu System - Masking Users](#) or [4.4.5.5 JQP Menu System - Masking Physical Terminals](#). Default is '#'.

MASKNUM= x|#

## MAXUSER

Maximum number of users logged onto JQP at any one time. When MAXUSER is not specified, a value of six is assumed.

**This parameter cannot be changed with the NEWCOPY command. To change this parameter, recycle JQP.**

MAXUSER= nnnn|6

## MPT

Support for AFP reports. Support for AFP is provided by interfacing with the MacKinney Systems MPT product.

**This parameter cannot be changed with the NEWCOPY command. To change this parameter, recycle JQP.**

MPT= NO                      JQP does not support AFP reports.  
      YES                     JQP supports AFP reports by interfacing with MPT.

**Note: CTOKEN=YES is required when MPT=YES is specified.**

## MPTCLS

The JES Output Queue class to use for AFP line data reports selection. When no class is specified, support for AFP line data reports is not provided.

MPTCLS= *character*            A-Z, 0-9

## MPTFLAG

MPT option flags.

MPTFLAG= (1|0, 1|0, 1|0, 1|0, 1|0, 1|0, 1|0, 1|0,)

Flag 1:1 0	in the event the MacKinney Print Transform (MPT) fails, JQP sends the JQPLOG for the failed report to the printer. In addition, the failed report is placed on HOLD to allow other reports assigned to the destination to process.
Flag 2:1 0	scan AFP reports for mixed mode. When this option on, the Print Transform Member, Advanced Settings, SWITCH(2) is disabled.
Flag 3:1 0	Unused
Flag 4:1 0	Unused
Flag 5:1 0	Unused
Flag 6:1 0	Unused
Flag 7:1 0	Unused
Flag 8:1 0	Unused

## MPTGRP

The MPT resource group to use. This number corresponds with the suffix added to the resource DD names in the MPT JCL. A resource group is a group of DD names in the MPT JCL containing AFP resource libraries to use during a transformation.

MPTGRP= 0|1|2|3

## MPTHOST

The TCP/IP address or the TCP/IP hostname for the MPT server. The TCP/IP hostname can be up to 64 bytes. When the MPT server is running on the same host as JQP, specify 127.000.000.001.

MPTHOST= xxx.xxx.xxx.xxx|hostname 1 to 64 characters

## MPTPACE

Specifies the delay between TCP/IP peek socket commands to determine when a response has been received from the MPT server.

MPTPACE= nnn|4000

MPTPACE=1 Delay of .000026 second for each peek socket command

MPTPACE=4000 Delay of .1 second for each peek socket command

## MPTPORT

The MPT primary and secondary port numbers defined.

MPTPORT= [nnnn|8888], [nnnn|0]

Parameter 1: nnnn|8888 the primary MPT port number.

Parameter 2: nnnn|0 the secondary MPT port number.

Omit the secondary number or specify zero to use only the primary MPT port number.

## MPTSEL

The default JES field used to determine the print transform member name overriding the print transform member defined in the printer MPT parameter.

MPTSEL= NONE	No JES field determines the name of the print transform member.
XWTR	The JES XWRITER field determines the name of the print transform member.
DEST	The JES Destination field determines the name of the print transform member.
FORM	The JES FORM-ID field determines the name of the print transform member.
FCB	The JES FCB field determines the name of the print transform member.
FLASH	The JES FLASH field determines the name of the print transform member.
EXIT	The print transform member exit program JQPFMPTX determines the name of the print transform member.
PAGEDEF	The JES PAGEDEF field determines the name of the print transform member.
FORMDEF	The JES FORMDEF field determines the name of the print transform member.

## NODE

For installations with NODENAME=REQUIRED specified on the DESTDEF statement in the JES parameters, the node name is required before the destination name for report selection. The node name is normally "N1".

NODE= *character* 1 to 8 bytes

## NOTIFY

The printer email notification options. These email notification options may also be specified on the printer entry to override these values.

NOTIFY= ([YES|NO], [YES|NO], [YES|NO], [YES|NO], [xxx|NORMAL], [xxx,NORMAL])

### First parameter specifies email notification for successfully printed reports.

Parameter 1: NO            Email notification is not sent for successfully printed reports.  
                  YES            Email notification is sent for successfully printed reports.

### Second parameter specifies email notification for failed printed reports.

Parameter 2: NO            Email notification is not sent for failed printed reports.  
                  YES            Email notification is sent for failed printed reports.

### Third parameter specifies email notification for re-queued reports.

Parameter 3: NO            Email notification is not sent for re-queued reports.  
                  YES            Email notification is sent for re-queued reports.

### Fourth parameter specifies email notification for printer intervention required.

Parameter 4: NO            Email notification is not sent for printer intervention required situations.  
                  YES            Email notification is sent for printer intervention required situations.

### Fifth parameter specifies the sensitivity for the email notification.

Parameter 5: NORMAL        sensitivity is normal  
                  PERSONAL        sensitivity is personal  
                  PRIVATE        sensitivity is private  
                  CONFIDENTIAL    sensitivity is confidential

### Sixth parameter specifies the importance for the email notification.

Parameter 6: NORMAL        importance is normal  
                  LOW            importance is low  
                  HIGH            importance is high

## PJLPACE

PJL TCP/IP “Peek Socket” pacing values.

PJLPACE= (nnnn|4000, nnnn|40000)

Parameter 1: the delay between PJL TCP/IP “Peek Socket” commands to determine when a response has been received from the printer.  
                  nnnn|4000

Parameter 2: the maximum wait time for a PJL “Peek Socket” command to determine when a response has been received from the printer.  
                  nnnn|40000

1     Timer of .000026 second  
4000 Timer of .1 second  
40000     Timer of 1 second

## PRTGRP

The Printer Table Group name used for dynamic users not defined to JQP.

PJLGRP= *character* 1 to 8 bytes

## PWD1

Supply one to six passwords to use the same Control Table (JQPFDCT) for multiple CPUs or multiple LPARs on the same CPU.

PWD1= *character* 16 byte password one  
PWD2= *character* 16 byte password two  
PWD3= *character* 16 byte password three  
PWD4= *character* 16 byte password four  
PWD5= *character* 16 byte password five  
PWD6= *character* 16 byte password six

**Note:** [The JQP product passwords can be specified in the PDS source member \\$INIT, reference section 1.1.3 JQP Product Password.](#)

## PWQFORM

JQP uses the FORM filter when displaying the Print Work Queue screen.

PWQFORM= NO JQP does not use the FORM filter when displaying the Print Work Queue Screen. This allows all reports waiting on a forms mount to display.  
YES JQP uses the FORM filter when displaying the Print Work Queue Screen. This allows only reports matching the form loaded on the printer to display.

## PXRACF

Specifies if JQP should use RACF or the JQPFDFPX Table to determine the printers the user can access. This parameter is similar to the DYNUSER 2<sup>nd</sup> parameter for dynamic users.

**This parameter cannot be changed with the NEWCOPY command. To change this parameter, recycle JQP.**

PXRACF= (YES|NO, size|32)

Parameter 1: NO JQP uses the JQPFDFPX Table to control printer access for the user.  
YES JQP uses RACF Profile Name List Routine (IRRPNL00) call to control printer access for the user.  
Note: SECURE=RACF|TOP|ACF2 and AUTOL=NO are required.  
The format for the RACF defined entity is:  
JQP.*prefix*JQPFDFPX.PRINTER.*printer* (printer may contain generic "\*" character).  
The prefix and RACF class is determined by the Control Table SECURE parameter.  
RACF READ access authority is required.

Parameter 2: controls the starting size for the buffer containing the response from the RACF IRRPNL00 call. When the buffer is too small, it automatically adjusts upward.  
size|32

## REQUEUE

The report's disposition when the line limit is exceeded.

REQUEUE= ({DELETE|HOLD|RETAIN}, writer, class, destination, form, {ACTIVE|HOLD})  
DELETE purge the report from the JES Queue.  
HOLD alter the report in the JES Queue to hold.  
RETAIN, writer, class, destination, form, {ACTIVE|HOLD}  
alter the report's writer name, class, destination and/or form and retains the report in the JES Output queue in an active or hold state.  
Note: Using an "\*" in writer, class, destination, and/or form indicates this parameter does not change.  
Note: Use ' ' to blank the writer name, default is PRINTED.  
Note: Use LOCAL to blank the destination.  
Note: Use STD to blank the form.  
Note: Valid classes are A-Z, 0-9.  
**Note: JQP places the report in a HOLD status in the event the retain parameters allow report reselection by the same destination.**

Note: REQUEUE may be specified on the destination entry to override this value.

## SECMENU

User class to perform JQP functions through the menu system.

User classes are listed below in lowest to highest order.

USER Normal user  
EXTU Extended user.  
OPER Operator  
ADM Administrator

SECMENU= (*update, add, delete, purge, release, hold, force, email*)

Parameter 1: specifies user class to update JQP definitions through the menu system.

Parameter 2: specifies user class to add JQP definitions through the menu system.

Parameter 3: specifies user class to delete JQP definitions through the menu system.

Parameter 4: specifies user class to purge reports in the system spool.

Parameter 5: specifies user class to release reports in the system spool.

Parameter 6: specifies user class to hold reports in the system spool.

Parameter 7: specifies user class to stop printers with the force option.

Parameter 8: specifies user class to email the JQPLOG to MacKinney Systems technical support.

# SECURE

Security options defined to JQP.

**This parameter cannot be changed with the NEWCOPY command. To change this parameter, recycle JQP.**

```
SECURE= ( [INTERNAL|RACF|TOP|ACF2], [NO|YES], [class|FACILITY], prefix,  
          [NO|YES], [NO|YES], [NO|YES] )
```

Parameter 1: the security method JQP uses to verify the user's password.

<u>INTERNAL</u>	JQP uses the User Control table PSWD parameter to verify the user's password.
<u>RACF</u>	JQP calls RACF to verify the user's password.
<u>TOP</u>	JQP calls Top/Secret (SAF interface) to verify the user's password.
<u>ACF2</u>	JQP calls CA/ACF2 (SAF interface) to verify the user's password.

Parameter 2: mixed case passwords support.

<u>NO</u>	mixed case passwords are not supported.
<u>YES</u>	mixed case passwords are supported.

Parameter 3: RACF resource class for the printers.

Specify one to eight byte class name. Default is FACILITY  
For installations using PXRACF=YES

Parameter 4: the optional prefix for the printer name entity.

Specify one to sixteen characters.

**Note: The prefix is optional and when specified it should end with a period.**

Parameter 5: RACF password phrase support.

<u>NO</u>	RACF password phrases are not supported.
<u>YES</u>	RACF password phrases are supported.

Parameter 6: RACF REQUEST= CREATE in subtask.

<u>NO</u>	The RACF REQUEST=CREATE is issued using the main task TCB.
<u>YES</u>	The RACF REQUEST=CREATE is issued using a subtask TCB.

Note: In the event a JQP subtask is not available, the main task TCB is used.

Parameter 7: use the UTOKEN with the MGCRC macro to issue console commands.

<u>NO</u>	Issue the MGCRC macro without the UTOKEN option. The console command is issued using the security assigned to the JQP job.
<u>YES</u>	Issue the MGCRC macro with the UTOKEN option. The console command is issued using the security assigned to the JQP user.

## SECUXT

JQP uses internally for the user-id of each person signed on JQP.

SECUXT= <u>NO</u>	JQP uses the user-id keyed on the JQP sign-on screen as the internal user-id.
YES	JQP uses the terminal's NETNAME as the internal user-id. Specifying YES allows more than one person to sign on to JQP with the same user-id and password.

## SECVRFY

New password verification enabled for external security installations.

SECVRFY= <u>NO</u>	Does not prompt the user to re-key the new password.
YES	Prompts the user to re-key a new password.

## SEPEXIT

For printer definitions with a blank separator exit, specifies the default separator exit.

SEPEXIT= <u>1</u>	Selects separator exit one (module JQPFPRS1) as the default.
2	Selects separator exit one (module JQPFPRS2) as the default.
3	Selects separator exit one (module JQPFPRS3) as the default.
4	Selects separator exit one (module JQPFPRS4) as the default.
5	Selects separator exit one (module JQPFPRS5) as the default.

## SETSEL

The JES field used to determine the name of the setup module overriding the setup module defined in the destination definition.

SETSEL= <u>NONE</u>	No JES field determines the name of the setup module.
XWTR	JES XWRITER field determines the name of the setup module.
DEST	JES Destination field determines the name of the setup module.
FORM	JES FORM-ID field determines the name of the setup module.
FCB	JES FCB field determines the name of the setup module.
FLASH	JES FLASH field determines the name of the setup module.
EXIT	Setup selection exit program JQPFPRSX determines the name of the setup module.
FORMDEF	JES FORMDEF determines the name of the setup module.
PAGEDEF	JES PAGEDEF determines the name of the setup module.

## SMF6

Write SMF type 6 records option.

SMF6= <u>NO</u>	JQP does not write any SMF type-6 records.
YES	JQP writes a SMF type-6 record for each report successfully printed.

## SUBTASK

Maximum number of JQP subtasks (3 to 255) allocated. A subtask is required for each active printer.

```
SUBTASK= (3-255|3,active,0|#)
```

Parameter 1: controls the maximum number of *active concurrent* printers.

**This parameter cannot be changed with the NEWCOPY command. To change this parameter, recycle JQP.**

Parameter 2: (optionally) specifies the number of allocated subtasks JQP is allowed to use at startup time.

The default number of active subtasks at startup time is the number allocated. Change the number of active subtasks using the TCP command.

Parameter 3: (optionally) specifies the number of allocated subtasks to include Language Environment (LE) support. LE support is only required for printers using TLS secure sockets. A large amount of storage is allocated by LE when initialized. In the event TLS secure sockets is used, it is recommended to keep the number of subtask supporting LE to a minimum to reduce the amount of storage required for each JQP subtask.

Note: LE subtasks are not limited to secure printing only. In the event a non-LE subtask is not available, JQP will utilize a LE subtask for a non-secured print. The reverse is not true, JQP does not attempt to use a non LE subtask for a secured print.

Note: Using LE subtasks changes the default DUBTHREAD to DUBPROCESS. Instead of one process for all JQP subtasks, each subtask (LE and non-LE) is a separate process. Verify the OMVS segment PROCUSERMAX parameter and PARMLIB member BPXPRMxx MAXPROCUSER parameter is set to support the additional processes. To see the current BPXPRMxx settings, enter the z/OS operator command `D OMVS,0`. To show the highwater usage for some of the limits, enter the command `D OMVS,L`. Use the SETOMVS command to change the settings without requiring an IPL.

**Without the correct number of processes allowed, an ERROR NO:156 results when attempting to start a TCP/IP connection.**

## TASKS

Number of concurrent tasks JQP can process at one time. While JQP can theoretically handle any number of users concurrently with as little as one task, providing a certain degree of multithreading can significantly improve performance. As a general rule, TASKS should be  $(11 + (2 \times \text{SUBTASK}))$ .

**This parameter cannot be changed with the NEWCOPY command. To change this parameter, recycle JQP.**

```
TASKS= nnn|20
```

## TCPHOST

Optional TCP/IP address for the local host where JQP is executing. Normally, JQP "BIND SOCKET" uses the TCP/IP address obtained by the GETHOSTID command. Optional, JQP can BIND SOCKET with the local TCP/IP address specified. Specify a 15 character TCP/IP address in the standard "dotted decimal" format. Each octet in the "dotted decimal" format must be three digits in the range of 000 to 255.

```
TCPHOST= xxx.xxx.xxx.xxx          TCP/IP host address
```

Optionally, allow the TCPHOST parameter in the \$INIT PDS member. The TCPHOST \$INIT PDS member overrides the Control Table TCPHOST parameter. Use the JQP command "NEWCOPY JQPFDFACT" to update the \$INIT TCPHOST parameter without recycling JQP.

Syntax: TCPHOST=xxx.xxx.xxx.xxx | &systemsymbol.

## TCPIP

TCP/IP options defined to JQP.

```
TCPIP= (YES|NO,nnnnn|721,nnnnn|731,0|1-32767,0|1-300)
```

Parameter 1: TCP/IP printer support is required and specifies the TCP/IP port ranges to use for LPD type printers.

<u>YES</u>	Enables TCP/IP printer support.
<u>NO</u>	Disables TCP/IP printer support.

Parameters 2 and 3: the TCP/IP port ranges to use for LPD type printers.

Default port range is 721 through 731.

**This parameter cannot be changed with the NEWCOPY command. To change this parameter, recycle JQP.**

Parameter 4: specifies the number of seconds to wait before JQP should issue the TCP/IP CANCEL command.

0	indicates JQP does not issue the TCP/IP cancel command.
1 – 32767	indicate the number of seconds JQP waits for a TCP/IP command to complete before the TCP/IP CANCEL command is issued

Parameter 5: the number of seconds JQP delays after sending approximately 8k to the TCP/IP printer.

0	indicates JQP does not delay while sending the report.
1 – 300	indicate the number of seconds JQP delays after sending approximately 8k to the TCP/IP printer.

**JQP will attempt to pace the amount of data sent to the printer with the printer's printing speed.**

## TITLE

The title or company name (up to 30 characters) to display on all JQP screens. This name is contained in quotes.

Note: Use the variable &&SID to place the system identification in the title.

Note: Use the variable &&SNAME to place the system name in the title

Note: Use the variable &&APPL to place the VTAM APPLID in the title.

```
TITLE= xxxxxxxx 1 to 30 characters
```

## TLS

The Transport Layer Security (TLS) version supported and Keyring Name.

```
TLS= ([TLS|TLSV10|TLSV11|TLSV12],keyring)
```

Parameter 1: The Transport Layer Security (TLS) version supported.

TLS	All TLS versions are supported.
TLSV10	TLS version 1.0 is supported.
TLSV11	TLS version 1.1 is supported.
TLSV12	TLS version 1.2 is supported.

Parameter 2: The RACF KEYRING name containing the digital certificate(s) required for Transport Layer Security (TLS). This provides secure communications to a printer. The keyring name is 1 to 237 characters.

## TRBSIZE

The length of a transmission buffer specified for JQP.

**This parameter cannot be changed with the NEWCOPY command. To change this parameter, recycle JQP.**

TRBSIZE= nnnnn|8192            8192 to 32736

## UFLAG1

The default user option flags. To enable the flag, set to "YES".

UFLAG1= (YES|NO, YES|NO, YES|NO, YES|NO, YES|NO, YES|NO, YES|NO, YES|NO)

Flag 1: YES  <u>NO</u>	the initial JQP definition screen is in "Display Mode" to prevent accidental update. Use the UPDATE command to toggle between "Display Mode" and "Update Mode".
Flag 2: YES  <u>NO</u>	bypass the Administration delete confirmation message.
Flag 3: YES  <u>NO</u>	bypass the initial Menu List screen for a single item.
Flag 4: YES  <u>NO</u>	Unused
Flag 5: YES  <u>NO</u>	Unused
Flag 6: YES  <u>NO</u>	Unused
Flag 7: YES  <u>NO</u>	Unused
Flag 8: YES  <u>NO</u>	Unused

## UNIT

The dynamic allocation parameters used by JQP for the TCP/IP printer temporary data sets. The dynamic allocation routine uses all parameters specified.

UNIT= ([xxxxxxxx|SYSALLDA], VOLSER, STORCLAS, MGMTCLAS, DATACLAS, [YES|NO], [10-100|25]).

Parameter 1: The UNIT the temporary data sets are placed upon.

Parameter 2: The VOLUME serial the temporary data set are placed upon.

Parameter 3: The SMS storage class for the temporary data set.

Parameter 4: The SMS management class for the temporary data set.

Parameter 5: The SMS data class for the temporary data set.

Parameter 6: The type of space allocation for the temporary data set.

Specify "YES" to always allocate the data set in cylinders.

Specify "NO" to allow smaller data sets to allocate in tracks.

Parameter 7: The secondary allocation percentage for the TCP/IP printer temporary data sets.

### 3.3.2 Security Considerations (RACF, ACF2, TOP SECRET, Internal)

The SECURE parameter in the Control Table (JQPFDFACT) determines the security option JQP uses for password verification on the JQP LOGON screen. JQP supports RACF, ACF2, TOP SECRET, and JQP INTERNAL security options. Specifying RACF, ACF2 or TOP SECRET for the SECURE parameter signals JQP to call the respective product for password verification when processing the LOGON screen. Even if you have RACF, ACF2, or TOP SECRET security, you may wish to specify INTERNAL for the SECURE parameter to allow users to bypass the JQP logon screen (See Section [2.6 Bypassing the JQP LOGON](#) Screen for details). JQP installations not having RACF, ACF2 or TOP SECRET must specify the INTERNAL option.

The SECVRFY parameter in the Control Table (JQPFDFACT), external security only, determines if the user is prompted to re-key the new password when a new password is keyed. This verifies the user has keyed the new password correctly before the call to the external security manager.

The DYNUSER parameter in the Control Table (JQPFDFACT), external security only, determines if a dynamic user is allowed. This specifies if the user must be defined to JQP for external security installations.

When using Dynamic User Creation with external security RACF, ACF2 or Top Secret, dynamic users by default have the options CLASS=USER and MCRGRP=SYSTEM. Optionally, the Control Table parameter DYNUSER 2<sup>nd</sup> parameter controls if JQP uses RACF calls to set the user's attributes.

To set the user's class attribute using RACF, JQP issues the following RACF calls (in order) during sign-on time. The RACF prefix and class is determined by the Control Table SECURE parameter.

JQP.prefixJQPFDFACT.CLASS.ADM	Dynamic User CLASS=ADM
JQP.prefixJQPFDFACT.CLASS.OPER	Dynamic User CLASS=OPER
JQP.prefix.JQPFDFACT.CLASS.EXTU	Dynamic User CLASS=EXTU
JQP.prefixJQPFDFACT.CLASS.USER	Dynamic User CLASS=USER

The first RACF call to allow access is the user's class attribute.

To set the user's PXRACF Feature attribute using RACF, JQP issues the following RACF call during sign-on time. The RACF prefix and class is determined by the Control Table SECURE parameter.

JQP.prefixJQPFDFACT.PXRACF.YES	Dynamic User PXRACF=YES
--------------------------------	-------------------------

RACF READ access authority is required.

**The JQP load library MUST be APF authorized for RACF, ACF2 and TOP SECRET options.** See the additional considerations below for TOP SECRET and ACF2 users:

## TOP SECRET

TOP SECRET users must add the JQP APPL as a TOP SECRET facility with the MULTIUSER parameter.

## ACF2

The following are ACF2 requirements for JQP to use the RACROUTE macros to verify a user's ID and password.

- GSO OPTS SAF must be specified and GSO OPTS STC must only be specified when JQP is a started task.
- Refresh GSO OPTS with the console command

### **F ACF2, REFRESH (OPTS)**

- Add a LOGONID record called JQP with the following options:

**MUSASS, RESTRICT, STC**                      when JQP is running as a started task

- or -

**MUSASS, RESTRICT, JOB**                      when JQP is running as a batch job and JOBCHCK is specified in GSO OPTS. (MUSASS and JOB are required for JQP, but 'RESTRICT' is a sample parameter and is dependent on your ACF2 standards.)

- Add a SAFPROT record using the following example:

**SAFPROT . JQP    SUBSYS (JQPMINIT)    CNTLPTS (JQPMINIT)    CLASSES (-)**

Refresh SAFPROT options with the console command

### **F ACF2, REFRESH (SAFPROT)**

### 3.3.3 Automatic Restart Manager (ARM) Recovery System

The Automatic Restart Manager (ARM) recovery system on z/OS can be used to restart JQP.

ARM can restart a failed JQP without operator intervention. ARM can also restart JQP running on a failed z/OS system.

ARM uses element names to identify applications. Each application set up to use ARM generates a unique element name for itself used in all communication with ARM. **JQP uses the job name as the element name and “MSJQP” as the element type.** ARM tracks the element name and defines its restart policy in terms of element names. For details about setting up ARM, see *z/OS MVS Sysplex Services Guide*

#### Simple ARM Policy example:

```
DATA TYPE (ARM) REPORT (YES)
  DEFINE POLICY NAME (STANDARD) REPLACE (YES)
    /* Default is to do nothing      */
RESTART_GROUP (DEFAULT)
  ELEMENT (*)
    RESTART_ATTEMPTS (0)
    /* MacKinney JQP product */
RESTART_GROUP (MACKINNEY)
  ELEMENT (JQP*)
    RESTART_ATTEMPTS (3, 300)
    TERMTYPE (ELEMTERM)
    RESTART_METHOD (ELEMTERM, PERSIST)
```

The following command is used to start ARM:

```
SETXCF START,POLICY,TYPE=ARM
```

The following command is used to stop ARM:

```
SETXCF STOP,POLICY,TYPE=ARM
```

### 3.4 JQPFDFDS - Destination Table

The JQPFDFDS table specifies the JES DESTID JQP selects reports for printing and defines the printing characteristics for the printer.

**Note: The Destination table is still required; however, this table is only used to migrate JQP destination entries to the VSAM file. Reference Section [4.4.2 JQP Menu System – Destinations](#) for information on how to maintain JQP destination entries.**

#### 3.4.1 JQPFDFDS Format

```
JQP$DFS TYPE=INITIAL                                     ← First entry
JQP$DFS TYPE=DEFAULT                                     ← Specifies defaults for subsequent entries
  [, CLASS=xxxxxxxxx]
  [, CPI={0|10|12|15|17}]
  [, DBCS=( {NONE|PURE|MIXED}, module, {DELETE|KEEP|REPLACE}, SO, SI) ]
  [, DISP=( {DELETE|HOLD|RETAIN|DEFAULT}, writer, class, destid, formid,
             {ACTIVE|HOLD|DEFAULT}) ]
  [, ERRACT={DEFAULT|FAIL|DRAIN}]
  [, FCB={xxxx|' '*}]
  [, FEED={BEFORE|AFTER|NONE|BOTH|SPECIAL|SPECIAL2}]
  [, FLAGS=(1|0,1|0,1|0,1|0,1|0,1|0,1|0,1|0,1|0,1|0)]
  [, FLAG2=(1|0,1|0,1|0,1|0,1|0,1|0,1|0,1|0,1|0)]
  [, FLAG3=(1|0,1|0,1|0,1|0,1|0,1|0,1|0,1|0,1|0)]
  [, FLAG4=(1|0,1|0,1|0,1|0,1|0,1|0,1|0,1|0,1|0)]
  [, FLAG5=(1|0,1|0,1|0,1|0,1|0,1|0,1|0,1|0,1|0)]
  [, ISTATUS={ACT|INACT}]
  [, LRTNS=(nn|,nn|,nn,nn,nn,nn,nn,nn)]
  [, MAX={n|0}]
  [, NET={xxxxxxxx|*}]
  [, RAW={NO|YES|YS2|YS3|YS4|YS5|YS6|YS7|YS9|YSA|YSB}]
  [, REQUEUE=#####, {DEFAULT|DELETE|HOLD|RETAIN}writer, class, dest, form,
             {ACTIVE|HOLD|DEFAULT}) ]
  [, SEPPAGE={YES|NO|LPD|YES2|YES3}]
  [, SETSEL={NONE|XWTR|DEST|FORM|FCB|FLASH|EXIT|FORMDEF|PAGEDEF|DEFAULT}]
  [, SETUP=( {xxxxxxxx|' '}, {YES|NO}) ]
  [, TRT={0|1-6|module}]
  [, WIDTH={n|132}]
JQP$DFS TYPE=ENTRY                                     ← Specifies Destination entry
  [, DEST=xxxxxxxx (xxxxxxxx,xxxxxxxx|' ')]
  [, CLASS=xxxxxxxxx]
  [, CPI={0|10|12|15|17}]
  [, DBCS=( {NONE|PURE|MIXED}, module, {DELETE|KEEP|REPLACE}, SO, SI) ]
  [, DESC='xxxxxxxx']
  [, DISP=( {DELETE|HOLD|RETAIN|DEFAULT}, writer, class, destid, formid),
             {ACTIVE|HOLD|DEFAULT}) ]
  [, ERRACT={DEFAULT|FAIL|DRAIN}]
  [, FCB={xxxx|' '*}]
  [, FEED={BEFORE|AFTER|NONE|BOTH|SPECIAL|SPECIAL2}]
  [, FLAGS=(1|0,1|0,1|0,1|0,1|0,1|0,1|0,1|0,1|0)]
  [, FLAG2=(1|0,1|0,1|0,1|0,1|0,1|0,1|0,1|0,1|0)]
  [, FLAG3=(1|0,1|0,1|0,1|0,1|0,1|0,1|0,1|0,1|0)]
  [, FLAG4=(1|0,1|0,1|0,1|0,1|0,1|0,1|0,1|0,1|0)]
  [, FLAG5=(1|0,1|0,1|0,1|0,1|0,1|0,1|0,1|0,1|0)]
  [, ISTATUS={ACT|INACT}]
  [, JOBNAME=xxxxxxxx]
  [, LRTNS=(nn,nn,nn,nn,nn,nn,nn,nn)]
  [, MAX={n|0}]
  [, NET={xxxxxxxx|*}]
  [, RAW={NO|YES|YS2|YS3|YS4|YS5|YS6|YS7|YS9|YSA|YSB}]
  [, REQUEUE=#####, {DEFAULT|DELETE|HOLD|RETAIN}writer, class, dest, form,
             {ACTIVE|HOLD|DEFAULT}) ]
  [, SEPPAGE={YES|NO|LPD|YES2|YES3}]
  [, SETSEL={NONE|XWTR|DEST|FORM|FCB|FLASH|EXIT|FORMDEF|PAGEDEF|DEFAULT}]
  [, SETUP=( {xxxxxxxx|' '}, {YES|NO}) ]
```

```

        [,TRT={0|1-6|module}]
        [,WIDTH={n|0|132}]
        [,XWTR=xxxxxxxx|*BLANK]
JQP$DFS TYPE=FINAL                                ← Last entry

```

## TYPE

This parameter is required.

TYPE= INITIAL	the first entry in the destination table.
DEFAULT	the defaults for subsequent entries.
ENTRY	the destination entry in the destination table
FINAL	the last entry in the destination table

A TYPE=DEFAULT entry provides a convenient means of specifying operands for subsequent TYPE=ENTRY entries. Specifying an operand in a TYPE=DEFAULT entry does not preclude specifying the operand in a TYPE=ENTRY entry. The TYPE=ENTRY specification always takes precedence. Multiple TYPE=DEFAULT entries can be provided. The most recent TYPE=DEFAULT operand specification takes precedence.

## DEST

The JES destination name defined for this destination entry. All reports in the JES output queue with this destination use these definitions. This parameter is required.

The destination selection name may begin with A through Z, \$, #, or @.

```
DEST= (xxxxxxxx,xxxxxxxx)
```

Parameter 1: The destination name (1 to 8 characters) defined for this entry.

Parameter 2: Optional, specify a second destination name (1 to 8 characters). This name is used for report selection instead of the first parameter. **Defining several DEST entries with the same destination in the second parameter provides a simple printer pooling feature.**

## CLASS

One to eight JES Output Queue classes to use for report selection. When no class is specified, reports with any class are selected for printing. This parameter overrides the Class parameter in the Control Table JQPFDFCT.

```
CLASS=
      character    1 to 8 characters (A-Z, 0-9)
```

## CPI

For SCS type printers only. Specify the Characters Per Inch (CPI) for the printer. Zero disables this feature.

CPI= 0	Disabled
10	10 Characters Per Inch
12	12 Characters Per Inch
15	15 Characters Per Inch
17	17 Characters Per Inch

## DBCS

The Double-Byte Character Set (DBCS) options defined for the destination entry.

```
DBCS= ( {NONE | PURE | MIXED} , module , {DELETE | KEEP | REPLACE} , SO , SI )
```

Parameter 1: indicates whether the print data contains double-byte character set data.

<u>NONE</u>	the print data contains no DBCS codes.
<u>PURE</u>	the print data contains all DBCS codes.
<u>MIXED</u>	the print data contains both single-byte character set and DBCS codes.

Parameter 2: the load module containing the translation table for the DBCS codes.

Parameter 3: indicates the disposition of the Shift-out (SO) and Shift-in (SI) codes in the print data.

<u>DELETE</u>	Removes the SO/SI codes from the print data.
<u>KEEP</u>	Leaves the SO/SI codes in the print data.
<u>REPLACE</u>	Changes the SO/SI codes with the 4 <sup>th</sup> and 5 <sup>th</sup> parameters.

Parameter 4: the 2, 4 or 6 byte hexadecimal code to replace the Shift-out (SO) character in the print data.  
Default is x'0E'.

Parameter 5: is the 2, 4 or 6 byte hexadecimal code to replace the Shift-in (SI) character in the print data.  
Default is x'0F'.

## DESC

The optional 32 byte description defined for the destination.

```
DESC= 'character' 1 to 32 bytes
```

## DISP

Report's disposition after printing is complete.

DISP= ( {DELETE | HOLD | RETAIN | DEFAULT } , writer , class , destination , form ,  
{ACTIVE | HOLD | DEFAULT } )

DELETE            purge the report from the JES Queue after printing.

HOLD                alter the report in the JES Queue to hold.

RETAIN, writer, class, destination, form, {ACTIVE | HOLD | DEFAULT }

alters the report's writer name, class, destination and/or form and retains the report in the JES Output queue in an active or hold state.

Note: Using an "\*" in writer, class, destination, and/or form indicates this parameter does not change.

Note: Use ' ' to blank the writer name, default is PRINTED.

Note: Use LOCAL to blank the destination.

Note: Use STD to blank the form.

Note: Valid classes are A-Z, 0-9.

**Note: JQP places the report in a HOLD status in the event the retain parameters allow report reselection by the same destination.**

DEFAULT            disposition of the report is determined by the DISP parameter in the JQPFDFCT table.

Note: This parameter overrides the DISP parameter in the Control Table JQPFDFCT.

Note: When APAR OW45495 is applied and DISP=DELETE, the final disposition of a SYSOUT data set is based on the JCL OUTDISP parameter. For OUTDISP=WRITE, the SYSOUT data set is deleted. For OUTDISP=KEEP, the SYSOUT data set final disposition is LEAVE. The report is moved from the JES Output queue to the JES Held queue. JQP messages always display the final disposition of DELETE.

## ERRACT

The error action taken when printing fails. With either option, automatic restart is controlled by the Automatic Restart Table JQPFTRST.

ERRACT= DEFAULT    use the ERRACT parameter in the Control Table JQPFDFCT.

FAIL                the destination is placed into an FAIL-xx status. The report printing remains allocated to JQP.

DRAIN                The destination is placed into an ERAINED status. The report printing is released by JQP.

## FCB

The default FCB image defined to this destination used for reports not specifying an FCB.

Note: JQP uses this FCB for carriage control only.

FCB= *character*      1 to 4 character name

  \*                    bypass FCB processing

## FEED

Additional form feed options defined for this destination.

FEED= <u>AFTER</u>	Forces an additional forms eject after the report is printed.
BEFORE	Forces an additional forms eject before the report is printed.
NONE	Omits any additional forms eject.
BOTH	Forces an additional form eject both before and after the report is printed.
SPECIAL	For reports starting with a forms skip, removes first forms skip. In some cases, this eliminates an extra blank page before this report begins printing.
SPECIAL2	For reports starting with a forms skip, removes first forms skip. In some cases, this eliminates an extra blank page before this report begins printing. Also issues an additional forms eject after the report is printed, FEED=SPECIAL does not.

## FLAGS

The destination option flags. Specify "1" to enable the flag, "0" to disable the flag or omit to use the default destination flags specified by the DFLAGS parameter in the Control table.

FLAGS= (1|0,1|0,1|0,1|0,1|0,1|0,1|0,1|0)

Flag 1:1 0	support PCL commands within the print line.
Flag 2:1 0	support the UEL command within the print line.
Flag 3:1 0	support Lexmark Barcode commands within the print line.
Flag 4:1 0	bypass carriage control processing, treats carriage control as data.
Flag 5:1 0	add a blank line for ASA reports with Feed=Special. Note: Requires the destination table option FEED=SPECIAL be used.
Flag 6:1 0	remove multiple "Skip to Channel 1 Immediate" commands.
Flag 7:1 0	remove blank lines at the end of the page. Note: For Solimar printers (RAW=7), line routine 05 is required.
Flag 8:1 0	allow both ASA and MCC carriage control in the same print data set.

## FLAG2

The destination option flags second set. Specify "1" to enable the flag, "0" to disable the flag or omit to use the default destination flags specified by the DFLAG2 parameter in the Control table.

FLAG2= (1|0,1|0,1|0,1|0,1|0,1|0,1|0,1|0)

Flag 1:1 0	create a GDG data set for the \$FILE printer.
Flag 2:1 0	truncate trailing spaces and nulls.
Flag 3:1 0	ignore the JES copies parameter and prints one copy only.
Flag 4:1 0	bypass print line truncation.
Flag 5:1 0	call exit program JQPFEX01.
Flag 6:1 0	for printer \$FILE, submit JCL after the report has successful printed.
Flag 7:1 0	for SCS printers, send Form Feed prior to Set Vertical Format.
Flag 8:1 0	for destinations using RAW=1, JQP prints the separator page using ASCII translate table (TCP/IP printers only).

## FLAG3

The destination option flags third set. Specify “1” to enable the flag, “0” to disable the flag or omit to use the default destination flags specified by the DFLAG3 parameter in the Control table.

FLAG3= (1|0,1|0,1|0,1|0,1|0,1|0,1|0,1|0)

Flag 1:1 0	submit the following console command after each report is successfully printed: \$TO J( <i>jobid</i> ),OUTGRP= <i>grp</i> id,NDISP=HOLD
Flag 2:1 0	call exit program JQPFEX04.
Flag 3:1 0	remove blank lines at the top of the page.
Flag 4:1 0	bypass check for RAW=7 or RAW=9 to insure each data set starts with a forms feed.
Flag 5:1 0	Unused
Flag 6:1 0	add a New Line Sequence at End of Report for reports without carriage control.
Flag 7:1 0	eliminate Cursor Return command for "write without spacing".
Flag 8:1 0	force the JQP trace graphic presentation to display as ASCII.

## FLAG4

The destination option flags fourth set. Specify “1” to enable the flag, “0” to disable the flag or omit to use the default destination flags specified by the DFLAG4 parameter in the Control table.

FLAG4= (1|0,1|0,1|0,1|0,1|0,1|0,1|0,1|0)

Flag 1:1 0	Unused
Flag 2:1 0	Unused
Flag 3:1 0	Unused
Flag 4:1 0	Unused
Flag 5:1 0	Unused
Flag 6:1 0	Unused
Flag 7:1 0	Unused
Flag 8:1 0	Unused

## FLAG5

The destination option flags fifth set. Specify “1” to enable the flag, “0” to disable the flag or omit to use the default destination flags specified by the DFLAG5 parameter in the Control table.

FLAG5= (1|0,1|0,1|0,1|0,1|0,1|0,1|0,1|0)

Flag 1:1 0	Unused
Flag 2:1 0	Unused
Flag 3:1 0	Unused
Flag 4:1 0	Unused
Flag 5:1 0	Unused
Flag 6:1 0	Unused
Flag 7:1 0	Unused
Flag 8:1 0	Unused

## ISTATUS

The destination status when a JQP printer is started.

ISTATUS= ACT            the destination status is WAITING when the printer is started.  
          INACT            the destination status is DRAINED when the printer is started.

Note: To start a destination with ISTATUS=INACT, use the JQP command START D,destination.

## JOBNAME

The Job Name used for report selection. Wildcards are supported.  
Valid wildcards are "\*" for multiple characters and "?" for a single character.

JOBNAME= *character*            1 to 8 bytes

## LRTNS

One to eight line routines to handle special print line processing. Place line routines in any order, they are processed from left to right. Omit or specify "00" for all eight routines to use the routine setting in the Control Table (JQPFDFACT).

(nn, nn, nn, nn, nn, nn, nn, nn)

One to eight default line routines

- 01 No operation routine
- 02 Each print line is checked for the character string x'5FC5' in columns one and two. When present, all x'5F' characters are translated to x'27'. The x'27' character is translated to x'1B' during normal EBCDIC to ASCII processing.
- 03 Special customer request to remove the ASCII space x'20' or EBCDIC space x'40' after the Shift-Out character x'0E' and before the Shift-In character x'0F'.
- 04 Optional feature; Line exit to look for the literal "#VPS#HPC HEX - " in column one and translate the following two hexadecimal bytes to a single binary byte.  
Note: Translation terminates at the end of the line or when a space character is found. All characters after the space character are bypassed.  
Note: When translation fails, the un-translated line is printed.  
Note: Carriage control processing is bypassed for lines with a carriage control character of "Z".  
Example: Line "#VPS#HPC HEX - 1B45" is translated to x'1B45'.
- 05 Truncates the trailing spaces before the JQP raw routines process the print record.
- 06 Special customer request to inverse the print line and not truncate the print line. The print line must not exceed 256 bytes.
- 07 Translates Machine Carriage Control (MCC) to ANSI Carriage Control (ASA).
- 08 Removes the SCS transparent character x'35' and the following length byte from the print line.
- 09 Checks for the SCS transparent character x'35' in column one and sends the transparent data to the printer without translation or truncation.
- 10 Scans for the SCS transparent character x'35' in the print line. Following the x'35' is the length byte. The number of bytes (immediately following the length byte) represented by the value in the length byte are moved to the output buffer ASIS. All other bytes in the print line are translated using the Translate table specified in the destination definition.
- 11 For lines with Write Without Spacing carriage control, this line routine compares the current line with the previous line and BOLD any matching characters using the PCL commands.
- 12 Special custom line routine to correct PCL strings.
- 13 For lines with a channel one skip, the previous line is scanned for a PCL Paper Source command in EBCDIC. When located, the channel one skip is suppressed.

## MAX

When the report exceeds MAX report lines, JQP does not select it to print. Specify zero for no limit.

MAX= 0                      no limit  
      *value*                    1 to 99,999,999

## NET

The name of the corresponding TERMID parameter in the Physical Table (JQPFD~~PH~~) defined for this destination. For VTAM printers, this is the VTAM name of the printer. For TCP/IP printers, this is the name assigned to the printer.

Use NET=\* to utilize the same name specified with the DEST parameter.

To create a data set of the report, specify \$FILE. The data set format is variable blocked (VB), logical record length is 32,756 and block size is 32,760. Reference the Control Table parameter [HLQ](#) for the format of the file name created for a report printed to a z/OS data set.

NET= character              1 to 8 byte name  
      \*                      utilize the same name specified with the DEST parameter

## RAW

Print line formatting options defined for this destination.

RAW= <u>NO</u>	Allows JQP to insert printer control characters into the print data stream sent to the printer. YES sends the print lines to the printer as “raw” data. No printer control characters (new line or forms feed) are inserted into the print data stream. <b>Note: When using one of the RAW options, it is recommended TRT=0 and WIDTH=0 be specified.</b>
RAW= YES	Sends only the data in the print line to the printer.
RAW= YS2	Sends the data in the print line to the printer prefixed with a four byte binary length field and a one byte Channel Command code. The length field contains the length of the data line only.
RAW= YS3	Sends the data in the print line to the printer prefixed with a four byte binary length field and a one byte Channel Command code. The length field contains the combined length of the data line, length field and the Channel Command code field.
RAW= YS4	Sends the data in the print line to the printer prefixed with a two byte binary length field and a one byte Channel Command code. The length field contains the combined length of the data line and the Channel Command code field. In addition, each JES data set begins with a form feed and the print line is truncated to the value specified in the destination WIDTH parameter. This option was added for Rochester Software Associates (RSA) type printers.
RAW= YS5	Truncates trailing spaces and sends the data in the print line to the printer. Additionally, channel one skips are processed. Print data contains PCL codes to separate the print lines.
RAW= YS6	Produces fixed length records equal to the destination WIDTH parameter (up to 256 bytes). Print line includes the carriage control byte. For the \$FILE printer, produces a fixed block file for reports printed to a data set. Record length equals the destination WIDTH parameter. Record length must be 80 through 256. Block size is computed on 8k. For reports generated with carriage control, the data set contains the carriage control.
RAW= YS7	Sends the data in the print line to the printer with a four byte RDW field and a one byte Channel Command code. The length field contains the combined length of the data line, RDW field and the Channel Command code field. In addition, ASA command codes are converted to Machine Command Codes (MCC). This option was added for Solimar Systems, Inc. type printers. This option allows passing print directly to the Solimar printers without going through the Solimar Blocker Emulation Module.
RAW= YS8	Ignores the carriage control and sends the data in the print line prefixed with the carriage control to the printer. Print data is suffixed with the New Line Sequence defined for the printer.
RAW= YS9	Sends the data in the print line to the printer with a two byte binary length and a one byte Channel Command code. The length field contains the combined length of the data line and one byte Channel Command code. In addition, ASA command codes are converted to Machine Command Codes (MCC). This option was added for LCDS type printers.
RAW= YSA	Sends the data in the print line to the printer with a four byte BDW field, four byte RDW field and a one byte Channel Command code. The BDW length field contains the combined length of the data line, one byte Channel Command code, four byte BDW field and four byte RDW field. The RDW length field contains the combined length of the data line, one byte Channel Command code and four byte RDW field.
RAW= YSB	Sends the data in the print line to the printer with a four byte RDW field and a one byte Channel Command code. The length field contains the combined length of the data line, one byte Channel Command code and four byte RDW field.

## REQUEUE

The report's disposition when the line limit is exceeded. When this limit is exceeded, JQP re-queues the report. To enable the re-queue option, set the destination parameter MAX to zero. To disable the re-queue option, specify line limit equal zero.

```
REQUEUE= #####, {DEFAULT|DELETE|HOLD|RETAIN}, writer, class, dest, form,  
              {DEFAULT|ACTIVE|HOLD}
```

Parameter 1: The line limit for this destination.

Parameter 2: The disposition for reports exceeding the maximum line limit.

DEFAULT	use the REQUEUE parameter in the Control Table JQPFDCT.
DELETE	purge the report from the JES Queue.
HOLD	alter the report in the JES Queue to hold
RETAIN	alter the report's writer name, class, destination and/or form and retains the report in the JES Output queue in an active state.

Parameter 3 to 7: The retained writer, class, destination form, and state respectively.

Alter the report's writer name, class, destination and/or form and retains the report in the JES Output queue in an active or hold state.

Note: Using an "\*" in writer, class, destination, and/or form indicates this parameter does not change

Note: Use '\*BLANK' to blank the writer name.

Note: Use LOCAL to blank the destination.

Note: Use STD to blank the form.

Note: Valid classes are A-Z, 0-9.

**Note: JQP places the report in a HOLD status if the re-queue parameters allow the report to reselect by the same destination.**

Note: Leave the re-queue parameters blank to use the re-queue values from the REQUEUE parameter in the JQPFDCT table.

## SEPPAGE

Separator page options defined for this destination.

SEPPAGE= NO	omits printing any separator pages.
YES	prints a separator page before and after each report.
YES2	prints a separator page before the report only.
YES3	prints a separator page for each data set within the report.
LPD	For TCP/IP printers only, LPD uses the separator page provided by the LPD server.

## SETSEL

The JES field used to determine the name of the setup module to override the setup module defined in the destination SETUP parameter.

SETSEL= NONE	No JES field is used to determine the name of the setup module.
XWTR	The JES XWRITER field is used to determine the name of the setup module.
DEST	The JES Destination field is used to determine the name of the setup module.
FORM	The JES FORM-ID field is used to determine the name of the setup module.
FCB	The JES FCB field is used to determine the name of the setup module. Reference the Control Table parameter <a href="#">FLAGA</a> , 7 <sup>th</sup> parameter.
FLASH	The JES FLASH field is used to determine the name of the setup module.
EXIT	The setup selection exit program JQPFPRSX determines the name of the setup module.
FORMDEF	The JES FORMDEF field is used to determine the name of the setup module.
PAGEDEF	The JES PAGEDEF field is used to determine the name of the setup module.
DEFAULT	The Control Table parameter SETSEL determines the name of the setup module.

## SETUP

Setup options defined for this destination.

```
SETUP= ([xxxxxxxx|' '], [YES|NO])
```

Parameter 1: The setup module name. Reference section [2.8 - Printer Setup Codes](#).

Specify the PCL control codes setup module with a prefix of HP. PCL control codes are NOT translated by the printer translate table specified in the TRT parameter before being sent to the printer.

Specify the Postscript control codes module prefixed with PS. Postscript control codes are translated by the printer translate table specified in the TRT parameter before being sent to the printer.

Specify the XEROX control codes setup module with a prefix of XE. XEROX control codes are NOT translated by the printer translate table specified in the TRT parameter before being sent to the printer.

FCB or FCBxxxx (where xxxx is the default FCB image) sets the Lines Per Inch (LPI), Maximum Lines Per Page (MPL) and Maximum Print Position (MPP) for a SCS type printer. LPI and MPL values are determined by the FCB information in SYS1.IMAGLIB and the MPP value is set to the WIDTH parameter. To insure proper forms alignment when using SETUP=FCB, specify either SEPPAGE=YES or FEED=AFTER.

**Note: Any setup module name not beginning with HP, PS or XE is treated like a HP module containing PCL codes.**

Parameter 2: The option to send reset commands to the printer after printing has completed.

YES	send a reset command to the printer after printing has completed.
NO	omit sending the reset command to the printer after printing has completed.

## TRT

The translate table defined for this destination.

TRT= <u>1</u> -6	Specify a number between 1 and 6 to append to JQPFFTP as the module name used to translate the printer data stream (i.e. Specify TRT=1 to use translate module JQPFFTP1).
0	Omits printer data stream translation.
module	1 to 8 byte module name

**Translate tables one through three are to use with EBCDIC data streams sent to VTAM printers and four through six are to use with ASCII data streams sent to TCP/IP printers.**

## WIDTH

Specifies the maximum number of characters printed before automatically performing a line eject. Specifying a number 80 to 8192 allows JQP to truncate lines longer than the printer can print or specifying zero allows the print lines to wrap.

```
WIDTH= 0 | 80-8192 | 132
        0           no automatic line eject
        value       80 to 8192
```

Note: For LUtype3 printers, Width should NOT be zero. A width of zero may result in missing blank lines.

## XWTR

The JES XWRITER name for report selection defined for this destination.

```
XWTR=
      character   XWRITER name
      *BLANK      selects the report when the XWRITER name is blank.
```

### 3.4.2 JQPFD FDS Example

Example:

```
1.....10.....16.....
JQPFD FDS CSECT
JQP$DFS TYPE=INITIAL
JQP$DFS TYPE=DEFAULT, SEPPAGE=NO, TRT=1, MAX=10000, WIDTH=132, FEED=NONE
JQP$DFS TYPE=ENTRY, DEST=P01, NET=P01, SEPPAGE=YES
JQP$DFS TYPE=ENTRY, DEST=P02, NET=P02, TRT=2
JQP$DFS TYPE=ENTRY, DEST=P03, NET=P03, MAX=0
JQP$DFS TYPE=ENTRY, DEST=P04, NET=P04, WIDTH=80
JQP$DFS TYPE=ENTRY, DEST=P05, NET=P05, FEED=BEFORE
JQP$DFS TYPE=FINAL
END
```

### 3.5 JQPFDFMC - Logon Macro Table

The JQPFDFMC table specifies logon macros. LOGON macros are a pre-defined list of JQP commands executed automatically each time a user logs on to JQP. The primary use of a LOGON macro is to SET PFkeys. User(s) are assigned to a LOGON macro group by specifying the name of the group in the “Macro Group” field and the GROUP parameter of the JQPFDFMC table.

#### 3.5.1 JQPFDFMC Format

JQP\$DFE	<u>TYPE</u> =INITIAL	← First entry
JQP\$DFE	<u>TYPE</u> =GROUP	← Defines a Logon Macro Group
	, <u>GROUP</u> =xxxxxxxx	
JQP\$DFE	<u>TYPE</u> =ENTRY	← Specifies a JQP command
	, <u>CMD</u> = 'xxxxxxxxx '	
JQP\$DFE	<u>TYPE</u> =FINAL	← Last entry

#### TYPE

This parameter is required.

TYPE=	INITIAL	the first entry in the logon macro table.
	GROUP	the macro group name.
	ENTRY	the command entry in the logon macro table
	FINAL	the last entry in the logon macro table

#### GROUP

The macro group name. This parameter is required for TYPE=GROUP entries. The GROUP name must match the name specified in the “Macro Group” field for the user.

GROUP= *character* macro group name.

#### CMD

CMD may be up to 72 characters in length. Enclose the command in apostrophes ('). This parameter is required for TYPE=ENTRY entries. When the JQP command contains spaces, it must be enclosed in quotes (“”).

CMD= *character* 1 to 72 characters

### 3.5.2 JQPFDFMC Example

Example:

```
JQPFDFMC  CSECT
          JQP$DFE  TYPE=INITIAL
          JQP$DFE  TYPE=GROUP, GROUP=SYSTEM
          JQP$DFE  TYPE=ENTRY, CMD=' SET PF1, HELP '
          JQP$DFE  TYPE=ENTRY, CMD=' SET PF2, REFRESH '
          JQP$DFE  TYPE=ENTRY, CMD=' SET PF3, END '
          JQP$DFE  TYPE=ENTRY, CMD=' SET PF5, FIND '
          JQP$DFE  TYPE=ENTRY, CMD=' SET PF6, UPDATE '
          JQP$DFE  TYPE=ENTRY, CMD=' SET PF7, BACKWARD '
          JQP$DFE  TYPE=ENTRY, CMD=' SET PF8, FORWARD '
          JQP$DFE  TYPE=ENTRY, CMD=' SET PF10, LEFT '
          JQP$DFE  TYPE=ENTRY, CMD=' SET PF11, RIGHT '
          JQP$DFE  TYPE=ENTRY, CMD=' SET PF12, RETRIEVE '
          JQP$DFE  TYPE=GROUP, GROUP=MCACCT
          JQP$DFE  TYPE=ENTRY, CMD=' SET PF3, END '
          JQP$DFE  TYPE=ENTRY, CMD=' SET PF7, BACKWARD '
          JQP$DFE  TYPE=ENTRY, CMD=' SET PF8, FORWARD '
          JQP$DFE  TYPE=FINAL
          END
```

### 3.6 JQPFDFMS - Message Table (Modification Optional)

Almost all messages output by JQP originate in the JQPFDFMS message table. The message processor accepts a message code as input and returns the message text as output. Therefore, most routines simply refer to message codes. Seldom do they generate message text themselves.

By default, all messages are eligible to write to the JQPLOG and no messages are eligible to write to the system console SYSLOG. To make a message eligible to write to the system console, specify SYSLOG=YES after the text of the message. To make a message ineligible to write to the JQPLOG, specify JQPLOG=NO after the text of the message.

With this implementation, messages are grouped in a single table rather than scattered throughout code. This greatly facilitates site customization of messages. Any message can easily be modified. The following is an excerpt from the message table as distributed with JQP:

---

```
JQPFDFMS CSECT
INITIAL JQP$DFM
.
.
.
CHALT01 JQP$DFM 'JQPCHALT01 ** DESTINATION OPERAND REQUIRED **'
CHALT03 JQP$DFM 'JQPCHALT03 ** DESTINATION XXXXXXXX NOT FOUND **'
.
.
FINAL JQP$DFM
      END
```

You can customize any part of the message inside the quotes.

### 3.7 JQPFDFPH - Physical Table

The JQPFDFPH Physical Table specifies physical terminals allowed to access JQP as well as printers used to print reports. Physical terminals are added explicitly in the JQPFDFPH table or dynamically using parameters specified in the JQPFDFCT table for Dynamic Terminals. The use of Dynamic Terminals is provided to help reduce JQP table maintenance. Adding Physical terminal definitions to the Physical Table (JQPFDFPH) is done when the Dynamic parameters do not satisfy requirements for the terminal. The following sections cover special considerations for customizing the JQPFDFPH table.

**Note: The Physical Table is still required; however, this table is only used to migrate JQP physical terminal and printer entries to the VSAM file. Reference Section [4.4.3 JQP Menu System – VTAM Printers](#) for information on maintaining JQP VTAM printer entries. Reference Section [4.4.4 JQP Menu System – TCP/IP Printers](#) for information on maintaining JQP TCP/IP printer entries. Reference Section [4.4.5 JQP Menu System – Terminals](#) for information on maintaining JQP terminal entries.**

#### 3.7.1 JQPFDFPH Format

```
JQP$DFP TYPE=INITIAL                                ← First entry
JQP$DFP TYPE=DEFAULT                                ← Specifies defaults for subsequent entries
  [, BUFSIZE={2K|4K|8K|MAX}]
  [, BFSEQ={0C0D|xx|xxxx|xxxxxx}]
  [, FORM={xxxxxxxx|' '}]
  [, GDDMCLS={x|' '}]
  [, IHOST=xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx]
  [, IPRINT=xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx]
  [, IPORT=( {nnnn|515}, {YES|NO} )]
  [, ISTATUS={ACT|INACT}]
  [, IWAIT={'_'|0|1-32767}, {'_'|0|1-300}]
  [, LCFGRP=xxxxxxxxxx]
  [, LOGMODE=xxxxxxxxxx]
  [, MAILTO=xxxxxxxxxx;xxxxxxxxxx|' '}]
  [, MPT={YES|NO|ALL, xxxxxxxxx,
    {DEFAULT|NONE|XWTR|DEST|FORM|FCB|FLASH|EXIT|PAGEDEF|FORMDEF}}]
  [, NLSEQ={'_'|xx|xxxx|xxxxxx}]
  [, NOTIFY=( {YES|NO|'_'}, {YES|NO|'_'}, {YES|NO|'_'}, {YES|NO|'_'},
    {xxx|'_'}, {xxx|'_'})]
  [, NTFYGRP={xxxxxxxxxx|'_'}]
  [, PJL=(00000000,###)]
  [, PRTGRP={xxxxxxxxxx|'_'}]
  [, PTY={1|2|3}]
  [, RELEASE=( {YES|NO}, {0-255} )]
  [, SCSTR={xx|35}]
  [, SEPEXIT={'_'|1|2|3|4|5}]
  [, SWITCH=00000000]
  [, SWITCH2=00000000]
  [, SWITCH3=00000000]
  [, TERMTYP={TERMINAL|PRINTER|TCPIP}]
JQP$DFP TYPE=ENTRY                                ← Specifies Physical Terminal entry
  [, TERMID=xxxxxxxxxx]
  [, TERMTYP=TERMINAL]
  [, DESC='xxxxxxxxx']
  [, USER=xxxxxxxxxx]
```

JQP\$DFP TYPE=ENTRY ← Specifies VTAM PRINTER entry

```

, TERMID=xxxxxxxx
, TERMTYP=PRINTER
[ , BUFSIZE={2K|4K}]
[ , DESC='xxxxxxxx']
[ , FFSEQ={0C0D|xx|xxxx|xxxxxx}]
[ , FORM={xxxxxxxx|' '}]
[ , GDDMCLS={x|' '}]
[ , ISTATUS={ACT|INACT}]
[ , LOGMODE=xxxxxxxx]
[ , MAILTO=xxxxxxxx;xxxxxxxx|'_']
[ , NLSEQ={' '|xx|xxxx|xxxxxx}]
[ , NOTIFY=( {YES|NO|'_'}, {YES|NO|'_'}, {YES|NO|'_'}, (YES|NO|'_'},
      {xxx|'_'}, {xxx|'_'}) )]
[ , NTFYGRP={xxxxxxxx|'_'}]
[ , PRTGRP={xxxxxxxx|'_'}]
[ , PRTY={1|2|3}]
[ , RELEASE=( {YES|NO}, {0-255})]
[ , SCSTR={xx|35}]
[ , SEPEXIT=['_'|1|2|3|4|5]]
[ , SWITCH=00000000]
[ , SWITCH2=00000000]
[ , SWITCH3=00000000]

```

JQP\$DFP TYPE=ENTRY ← Specifies TCP/IP PRINTER entry

```

, TERMID=xxxxxxxx
, TERMTYP=TCPIP
[ , BUFSIZE={2K|4K|8K|MAX}]
[ , DESC='xxxxxxxx']
[ , FFSEQ={0C0D|xx|xxxx|xxxxxx}]
[ , FORM={xxxxxxxx|' '}]
[ , IHOST=xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx]
[ , IPORT=( {nnnn|515}, {YES|NO})]
[ , IPRINT=xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx]
[ , ISTATUS={ACT|INACT}]
[ , IWAIT={'_'|0|1-32767}, {'_'|0|1-300}]
[ , LCFGRP=xxxxxxxx]
[ , MAILTO=xxxxxxxx;xxxxxxxx|'_']
[ , MPT={YES|NO|ALL, xxxxxxxx,
      {DEFAULT|NONE|XWTR|DEST|FORM|FCB|FLASH|EXIT|PAGEDEF|FORMDEF}}]
[ , NLSEQ={' '|xx|xxxx|xxxxxx}]
[ , NOTIFY=( {YES|NO|'_'}, {YES|NO|'_'}, {YES|NO|'_'}, (YES|NO|'_'},
      {xxx|'_'}, {xxx|'_'}) )]
[ , NTFYGRP={xxxxxxxx|'_'}]
[ , PJL=(00000000,###)]
[ , PRTGRP={xxxxxxxx|'_'}]
[ , PRTY={1|2|3}]
[ , RELEASE=(, {0-255})]
[ , SEPEXIT=['_'|1|2|3|4|5]]
[ , SWITCH=00000000]
[ , SWITCH2=00000000]
[ , SWITCH3=00000000]

```

JQP\$DFP TYPE=FINAL ← Last entry

## TYPE

This parameter is required.

TYPE= INITIAL	the first entry in the physical table.
DEFAULT	the defaults for subsequent entries.
ENTRY	the physical terminal or printer name known to your VTAM
FINAL	the last entry in the physical table

A TYPE=DEFAULT entry provides a convenient means of specifying operands for subsequent TYPE=ENTRY entries. Specifying an operand in a TYPE=DEFAULT entry does not preclude specifying the operand in a TYPE=ENTRY entry. The TYPE=ENTRY specification always takes precedence. Multiple TYPE=DEFAULT entries can be provided. The most recent TYPE=DEFAULT operand specification takes precedence.

## TERMID

The physical terminal or printer ID name defined for this entry. This parameter is required for TYPE=ENTRY calls. For VTAM terminals or printers, this is the VTAM NETNAME of a terminal or printer currently in your environment, allowed access to JQP. For TCP/IP printers, this is any name you wish to associate with the printer.

**NOTE: This parameter must have a corresponding NET parameter in the Destination Table (JQPFD FDS).**

TERMID= *character*                    1 to 8 characters

## TERMTYP

The terminal type defined for this entry.

TERMTYP= <u>TERMINAL</u>	VTAM terminal.
PRINTER	VTAM printer.
TCPIP	TCP/IP printer.

## BUFSIZE

The buffer size defined for this printer.

BUFSIZE= <u>2K</u>	buffer size of 2048.
4K	buffer size of 4096.
8K	buffer size of 8192.
MAX	JQP computes the maximum buffer size based upon the Control Table parameter TRBSIZE, for TCP/IP printers only.

**Buffer sizes 8K and MAX are intended for TCP/IP connections to print servers rather than actual printers.**

## DESC

The optional 32 byte description defined for the terminal or printer.

DESC= 'character' 1 to 32 bytes

## FFSEQ

Form feed sequence for the printer.

FFSEQ= 0C0D Default is 0C0D (forms feed and cursor return).  
xx|xxxx|xxxxxx Specify 2, 4 or 6 hexadecimal codes to use as the form feed sequence.

## FORM

Specifies the FORM ID mounted on the printer the first time the printer is used by JQP.

FORM= ' ' allows all reports to print on this printer regardless of their form ID.  
character 1 to 8 bytes

## GDDMCLS

The SYSOUT class identifying a GDDM data set resulting in a call to module ADMOPUJ.

GDDMCLS= character Single byte character (A-Z, 0-9)  
' ' Bypass GDDM processing.

## IHOST

Specifies the TCP/IP host name or host address for the TCP/IP printer. The host name is up to 64 characters in length. The host address is entered in the xxx.xxx.xxx.xxx format.

**Note: The TCP/IP host name is limited to 24 bytes for installations not using an external Domain Name Server (DNS).**

IHOST= character 1 to 64 characters

## IPOINT

The port number used in the TCP/IP connection defined for this printer. The port number is 515 for LPD connection. Per RFC1179, LPR client should use ports 721-731. By default, JQP (LPR client) uses these ports. Specify (515,NO) to allow JQP to use any port. Some network printer adapters support a direct TCP/IP connection. The most common port for this type of connection is 9100.

Reference the documentation for the network printer adapter for more information.

IPOINT= (nnnn|515,YES|NO)

Parameter 1: The port number used in the TCP/IP connection defined for this printer.

Parameter 2: For port number 515, bind to sockets 721-731.

YES	bind to sockets 721-731
NO	do not bind to sockets 721-731, use any available socket

## IPRINT

Specifies the TCP/IP printer queue name defined on the LPD server. The printer queue name is up to 48 characters in length and may be entered in mixed case.

NOTE: Variables are allowed in this field, reference [3.7.4 Printer Queue Name Variables](#).

NOTE: The IPRINT parameter is ignored when using a direct socket connection.

IPRINT= *character*                    1 to 48 characters

## ISTATUS

The printer status when JQP is started.

ISTATUS= <u>ACT</u>	places the printer in an IDLE status when JQP starts.
<u>INACT</u>	places the printer in a STOPPED status when JQP is started.

## IWAIT

The TCP/IP wait time options for the printer.

IWAIT={'\_'|0|1-32767}, {'\_'|0|1-300}]

Parameter 1: when JQP should issue the TCP/IP CANCEL command after waiting the amount of time specified for a TCP/IP command to complete.

'_'	JQP uses the default wait time from the Control Table TCPIP parameter.
0	JQP does not issue the TCP/IP CANCEL command.
1-32767	number of seconds JQP waits for a TCP/IP command to complete before the TCP/IP CANCEL command is issued.

Parameter 2: the number of seconds JQP delays after sending approximately 8k to the TCP/IP printer.

'_'	JQP uses the default wait time from the Control Table TCPIP parameter.
0	JQP does not delay while sending the report.
1 - 300	indicate the number of seconds JQP delays after sending approximately 8k to the TCP/IP printer.

**JQP will attempt to pace the amount of data sent to the printer with the printer's printing speed**

## LCFGRP

The LPD control file group name defined for this printer. Specifies the LPD control file group used to construct the LPD control file sent to the LPD server when the report is printed. Blank indicates the default separator group specified in the JQP Control Table (JQPFDFCT) is used.

LCFGRP= character 1 to 8 characters

## LOGMODE

The VTAM LOGMODE defined for the printer, used in the bind to the VTAM printer. Not valid for terminals.

LOGMODE= character 1 to 8 characters

## MAILTO

Specifies one or two TCP/IP email notification addresses. The second email notification address must be separated from the first by a semicolon. Both TCP/IP email notification addresses combined are limited to 64 bytes. These email notification addresses override the email notification addresses in the Control Table.

MAILTO= xxxxxxxx | ' \_ ' | xxxxxxxx ; xxxxxxxx 1 to 64 characters

## MPT

The options for printer transforms defined for the printer.

MPT= YES | NO | ALL , xxxxxxxx ,  
[ DEFAULT | NONE | XWTR | DEST | FORM | FCB | FLASH | EXIT | PAGEDEF | FORMDEF ]

Parameter 1: printer transforms are support for this printer.

YES	Printer transforms are supported for this printer.
NO	Printer transforms are not supported for this printer.
ALL	Printer transforms are supported for all reports.

Parameter 2: The print transform member name containing the print transforms options.

character 1 to 8 bytes

Parameter 3: The JES field to determine the name of the print transform member name.

<u>DEFAULT</u>	The default member selection (MPTSEL parameter in the Control Table) is used to determine the print transform member name.
NONE	No JES field is used to determine the name of the print transform member.
XWTR	The JES XWRITER field is used to determine the name of the print transform member.
DEST	The JES Destination field is used to determine the name of the print transform member.
FORM	The JES FORM-ID field is used to determine the name of the print transform member.
FCB	The JES FCB field is used to determine the name of the print transform member.
FLASH	The JES FLASH field is used to determine the name of the print transform member.
EXIT	The print transform member exit program JQPFMPTX determines the name of the print transform member.
PAGEDEF	The JES PAGEDEF field is used to determine the name of the print transform member.
FORMDEF	The JES FORMDEF field is used to determine the name of the print transform member.

## NLSEQ

Line feed sequence for the printer.

NLSEQ= xx|xxxx|xxxxxx

The 2, 4 or 6 hexadecimal codes to use as the Line feed sequence.

Specify ' ' to omit the new line sequence.

Default is 15 (newline) for VTAM type printers and 0A0D (line feed and cursor return) for TCP/IP type printers.

## NOTIFY

The email notification options defined for this printer. These email notification options override the email notification options in the Control Table.

NOTIFY= [YES|NO|'\_'], [YES|NO|'\_'], [YES|NO|'\_'], [YES|NO|'\_'], [xxx|'\_'], [xxx|'\_']

Parameter 1: email notification for successfully printed reports.

'_'	Selects the default email notification parameter specified in the Control Table.
YES	Email notification is sent for successfully printed reports.
NO	Email notification is not sent for successfully printed reports.

Parameter 2: email notification for failed printed reports.

'_'	Selects the default email notification parameter specified in the Control Table.
YES	Email notification sent for failed printed reports.
NO	Email notification is not sent for failed printed reports.

Parameter 3: email notification for re-queued reports.

'_'	Selects the default email notification parameter specified in the Control Table.
YES	Email notification is sent for re-queued reports.
NO	Email notification is not sent for re-queued reports.

Parameter 4: email notification for printer intervention required.

'_'	Selects the default email notification parameter specified in the Control Table.
YES	Email notification is sent for printer intervention required situations.
NO	Email notification is not sent for printer intervention required situations.

Parameter 5: the sensitivity for the email notification.

'_'	Selects the default email notification parameter specified in the Control Table.
NORMAL	sensitivity is normal
PERSONAL	sensitivity is personal
PRIVATE	sensitivity is private
CONFIDENTIAL	sensitivity is confidential

Parameter 6: the importance for the email notification.

'_'	Selects the default email notification parameter specified in the Control Table.
NORMAL	importance is normal
LOW	importance is low
HIGH	importance is high

Parameter 7: email job name table option.

'_'	Selects the default email job name parameter specified in the Control Table.
YES	Email notification is limited to the reports with job names defined in the email job name table (JQPFDJEJ).
NO	Email notification is not limited to the reports with job names defined in the email job name table (JQPFDJEJ).

## NTFYGRP

The email notification job table group defined for this printer. The job table is used to limit email notification by job name.

NTFYGRP= character            1 to 8 characters  
          ' '                    Email notification for all jobs.

## PRTGRP

The group name assigned to the printer. Place printers into a group to allow certain JQP commands to apply to all printers within the group.

For example, to start all printers in group @PAY issue the JQP command "START @PAY".

**The group must start with the character "@".**

PRTGRP= character            1 to 8 characters  
          ' '                    No printer group assigned.

## PJL

Printer Job Language (PJL) support parameters.

PJL= (00000000,###)

Parameter 1: set of PJL option switches (left to right) one through eight.

To enable the switch, specify "1". To disable the switch, specify "0".

- SWITCH(1)      Printer Job Language (PJL) is supported for this printer.  
**PJL is available for TCP/IP "Open Socket" printers only.**
- SWITCH(2)      PJL, Send JOB and EOJ commands.
- SWITCH(3)      **This option is required to restart reports by page number.**  
PJL page count includes all pages printed but NOT all pages processed in non-printing mode. Non-printing mode occurs when a report is not restarted from page one.
- SWITCH(4)      Displays the job message on the printer's control panel.  
The job message format is "JOBNAME/JOBID/GRPID".
- SWITCH(5)      PJL, Enables unsolicited device status. The printer sends a status message when device changes occur.
- SWITCH(6)      PJL, Enables unsolicited job status. The printer sends a status message every time a job begins, ends or is canceled.
- SWITCH(7)      PJL, Enables unsolicited page status. The printer sends a status message every time a page reaches the output tray.
- SWITCH(8)      PJL, Enables time unsolicited status "automatic polling", reference the PJL Options seconds parameter.

Parameter 2: the number of seconds between "automatic polling" current printer status messages.

Specify a value between 5 and 300 seconds. Specify zero to turn off this feature. **Requires enabling SWITCH(8).**

## PRTY

The priority defined for the printer.

PRTY= 2        Normal priority  
          1        Low priority.  
          3        High priority

When multiple reports are printed, this priority determines the printer starting first. After printing starts, all printers have the same priority.

## RELEASE

The release options defined to this printer.

RELEASE= [YES|NO], [0-255]

Parameter 1: (VTAM printers only) specifies if JQP releases the printer back to VTAM after printing has completed.

NO                JQP does not release the printer after printing.  
YES               JQP releases the printer after printing.

Parameter 2: for **VTAM** printers

The number of seconds to wait before JQP releases the printer after printing has completed.

Parameter 2: for **TCP/IP** printers

The number of seconds to wait after JQP has printed the report before starting the next report

## SCSTR

The SCS transparent control code. Specify the 2-digit hexadecimal code the printer uses to signify the beginning of transparent data. This character precedes any PCL or Postscript printer setup and reset commands.

SCSTR= xx|35

## SEPEXIT

The separator exit defined for the printer.

SEPEXIT= ' \_ '            the default separator exit specified in the Control Table for the printer.  
1            separator exit one (module JQPFPRS1) for the printer.  
2            separator exit two (module JQPFPRS2) for the printer.  
3            separator exit three (module JQPFPRS3) for the printer.  
4            separator exit three (module JQPFPRS4) for the printer.  
5            separator exit three (module JQPFPRS5) for the printer.

## SWITCH

First set of printer option switches (left to right) one through eight.  
To enable the switch, specify "1". To disable the switch, specify "0".

SWITCH= 00000000

SWITCH(1)        JQP prints all data sets within the report in a separate pass for each copy.  
Printer setup codes (if available) are sent before each copy is printed.  
Separator pages (if requested) are printed for each copy.  
SWITCH(2)        JQP processes NON-port 515 using LPD/LPR protocol.  
SWITCH(3)        For LPD/LPR type printers, changes the "Receive Control File" and "Receive Data File" to include the  
job name rather than the TCP/IP host name.  
SWITCH(4)        For LPD/LPR type printers, sends the control file first.  
SWITCH(5)        For TCP/IP "Open/Direct Socket" printers, bypasses sending the TCP/IP READ command to  
acknowledge printing is complete.  
**Note: This option is not recommended!**  
SWITCH(6)        For printers with multiple destinations, JQP prints all reports for the destination before restarting from the  
first destination.  
SWITCH(7)        When Switch 8 is enabled, JQP sends all reports within the same socket.  
SWITCH(8)        Prints each data set within the report as a separate report.

## SWITCH2

Second set of printer option switches (left to right) one through eight.  
To enable the switch, specify "1". To disable the switch, specify "0".

SWITCH2= 00000000

SWITCH2(1)        Keep the LPD temporary data set.  
**For MacKinney Systems Technical Support Diagnostic.**  
SWITCH2(2)        When the report generates a zero length data file, the printer's Form Feed Sequence is sent to the printer as  
the data file.  
SWITCH2(3)        Use PCL commands to make duplicate overstrike lines BOLD.  
Note: The overstrike line must exactly match the previous line.  
                  For non-matching lines, reference Destination Line Routine 11.  
SWITCH2(4)        Call exit program JQPFEX03.  
SWITCH2(5)        Send the JQP setup module SETUP=1STDD to force the next copy to the front side of the page.  
SWITCH2(6)        Not Used.  
SWITCH2(7)        Pass the FCB image to the JQP Separator Exit.  
SWITCH2(8)        Write highlighted message to the System Console when the FORM needs mounting on the JQP  
printer to print the selected report.  
In addition for destinations using the FORM ID as the setup module name, send the 1STDD codes  
before the form change and the EXIT codes after the form change.

## SWITCH3

Third set of printer option switches (left to right) one through eight.  
To enable the switch, specify "1". To disable the switch, specify "0".

SWITCH3= 00000000

SWITCH3(1)	For IPP type printers only, send the report to the printer using the Content-Length method.
SWITCH3(2)	For IPP type printers only, append the printer's queue name to the POST URI name.
SWITCH3(3)	Not Used.
SWITCH3(4)	Not Used.
SWITCH3(5)	Not Used.
SWITCH3(6)	Not Used.
SWITCH3(7)	Not Used.
SWITCH3(8)	Not Used.

## USER

User ID associated with the terminal. When USER is specified, JQP automatically logons the specified user as soon as a VTAM session is created between the terminal and JQP. The normal logon screen is bypassed altogether.

USER= *character* 1 to 8 characters

### 3.7.2 JQPFDFPH Example

Example:

---

1.....10.....20.....30.....

JQPFDFPH CSECT

JQP\$DFP TYPE=INITIAL

JQP\$DFP TYPE=DEFAULT,TERMTYP=TERMINAL

JQP\$DFP TYPE=ENTRY,TERMID=NETNAME1,USER=MGMT

JQP\$DFP TYPE=ENTRY,TERMID=NETNAME2,USER=ACCT

JQP\$DFP TYPE=ENTRY,TERMID=NETNAME3,USER=PGMR

JQP\$DFP TYPE=DEFAULT,TERMTYP=PRINTER

JQP\$DFP TYPE=ENTRY,TERMID=PRINTERA,FORM=STD

JQP\$DFP TYPE=ENTRY,TERMID=PRINTERB,FORM=PAY1

JQP\$DFP TYPE=FINAL

END

---

### 3.7.3 Masking Physical Terminals

To help reduce the amount of JQP maintenance, use masking characters in the TERMID parameter of the Physical Table (JQPFD FPH). Two special masking characters are defined by parameters MASKALP and MASKNUM in the Control Table (JQPFD FCT). The MASKALP masking character masks any character, while MASKNUM masks numeric characters only. When a terminal logs on to JQP, the physical table is searched from top to bottom to find the correct terminal table entry. For this reason, **terminal entries containing masking characters should be placed near the end of the table**. When no table entry, including masking entries, is found, the dynamic parameters specified in the control table are used. Place masking characters in any position of the TERMID parameter.

Example JQPFD FPH table

JQP\$DFP TYPE=ENTRY, TERMID=T011	← entry 1
JQP\$DFP TYPE=ENTRY, TERMID=T01#	← entry 2
JQP\$DFP TYPE=ENTRY, TERMID=*01*	← entry 3
JQP\$DFP TYPE=ENTRY, TERMID=T01X	← entry 4

Example 1: Terminal "T011" logs on to JQP. Entry 1 is selected.  
Example 2: Terminal "T012" logs on to JQP. Entry 2 is selected.  
Example 3: Terminal "T01S" logs on to JQP. Entry 3 is selected.  
Example 4: Terminal "S01S" logs on to JQP. Entry 3 is selected.  
Example 5: Terminal "T01X" logs on to JQP. Entry 3 is selected.

### 3.7.4 Printer Queue Name Variables

The following variables are available for use in the IPRINT parameter:

&CLASS	SYSOUT Class
&COPY	Number of Copies
&DDNAME	DD Name
&DEST	Destination ID
&DSN	Data Set Name
&FCB	FCB Name
&FLASH	Flash ID
&FORM	Form ID
&GROUPLD	Group ID
&JOBID	Job ID
&JOBNAME	Job Name
&LINES	Number of Lines
&LRECL	Maximum Logical Record Length
&PAGES	Number of Pages
&PNAME	Programmer's Name
&PROC	PROC Name
&PRTQUE	PRTQUEUE from JCL OUTPUT Statement
&ROOM	Room Number
&STEP	Step Name
&SYS	System Name of the z/OS Image
&USERID	Owning User ID
&WRITER	Writer Name

### 3.8 JQPFDFPX - Printer Group Table (Modification Optional)

The JQPFDFPX printer group table restricts a JQP user to a specific group of printer(s). This prevents an unauthorized user from changing a printer's characteristics or operation.

The JQPFDFPX printer group table defines printer subsets of the printers defined to JQP. A given user can be restricted to one of these printer subsets.

#### 3.8.1 JQPFDFPX Format

JQP\$DXP	<u>TYPE</u> =INITIAL	← First entry
JQP\$DXP	<u>TYPE</u> =GROUP	← Defines a Printer group
	, <u>GROUP</u> =xxxxxxxxxx	
JQP\$DXP	<u>TYPE</u> =ENTRY	← Defines a Printer within group
	, <u>PRINTER</u> =xxxxxxxxxx	
JQP\$DXP	<u>TYPE</u> =FINAL	← Last entry

#### TYPE

This parameter is required.

TYPE=	INITIAL	the first entry in the printer group table.
	GROUP	the printer group name
	ENTRY	the printer group entry
	FINAL	the last entry in the printer group table

#### GROUP

The printer group name. This parameter is required for TYPE=GROUP entries. The GROUP name must match the name specified in the "Printer Group" field for the user.

GROUP= *character* printer group name.

#### PRINTER

The printer ID defined for this entry. This parameter is required for TYPE=ENTRY calls. An "\*" specifies a generic printer.

PRINTER= *character* 1 to 8 characters

### 3.8.2 JQPFDFPX Example

#### JQPFDFPX Example

---

```
1.....10.....20.....30.....
JQPFDFPX CSECT
      JQP$DXP TYPE=INITIAL
*
      JQP$DXP TYPE=GROUP, GROUP=PXMANAGE
      JQP$DXP TYPE=ENTRY, TERMID=PRINTER1
      JQP$DXP TYPE=ENTRY, TERMID=PRINTER2
      JQP$DXP TYPE=ENTRY, TERMID=PRINTER3
*
      JQP$DXP TYPE=GROUP, GROUP=PXACCT
      JQP$DXP TYPE=ENTRY, TERMID=PRINTERA
      JQP$DXP TYPE=ENTRY, TERMID=PRINTERB
      JQP$DXP TYPE=ENTRY, TERMID=PRINTERX
      JQP$DXP TYPE=ENTRY, TERMID=PRINTERY
*
      JQP$DXP TYPE=GROUP, GROUP=PAYROLL
      JQP$DXP TYPE=ENTRY, TERMID=PAY*
*
      JQP$DXP TYPE=FINAL
      END
```

---

In this example the groups PXMANAGE, PXACCT and PAYROLL could be used in the “Printer Group” field to restrict users to printers. For group PXMANAGE, users have access to printers PRINTER1, PRINTER2 and PRINTER3. For group PXACCT, users have access to printers PRINTERA, PRINTERB, PRINTERX, and PRINTERY. For group PAYROLL, users have access to all printers beginning with PAY.

### 3.9 JQPDFFUS - User Table

The JQPDFFUS User table defines users allowed to access JQP. JQP uses the definition to determine the user's PF/PA Key configuration, commands the user can access, etc. Users are added explicitly in the JQPDFFUS table or are added dynamically using parameters specified in the JQPDFFCT table for Dynamic Users. The use of Dynamic Users is provided to help reduce JQP table maintenance. Add users to the User Table (JQPDFFUS) when the Dynamic parameters do not satisfy requirements for the user. The following sections cover special considerations for customizing the JQPDFFUS table.

**Note: The User table is still required; however, this table is only used to migrate JQP user entries to the VSAM file. Reference Section [4.4.6 JQP Menu System – Users](#) for information on maintaining JQP user entries.**

#### 3.9.1 JQPDFFUS Format

```
JQP$DFU TYPE=INITIAL           ← First entry
JQP$DFU TYPE=DEFAULT          ← Specifies defaults for subsequent entries
                               ← USER is default
    [, CLASS={USER|EXTU|OPER|ADM}]
    [, FLAG1=(1|0,1|0,1|0,1|0,1|0,1|0,1|0,1|0,1|0,1|0,1|0)]
    [, MCRGRP={xxxxxxxx|SYSTEM}]
    [, PRTGRP=xxxxxxxx]
    [, PXRACF={YES|NO}]
JQP$DFU TYPE=ENTRY            ← Specifies a User entry
    , USER=xxxxxxxx
    [, PSWD=xxxxxxxx]
    [, CLASS={USER|EXTU|OPER|ADM}]
    [, FLAG1=(1|0,1|0,1|0,1|0,1|0,1|0,1|0,1|0,1|0,1|0,1|0)]
    [, NAME='xxxxxxxx']
    [, MCRGRP={xxxxxxxx|SYSTEM}]
    [, PRTGRP=xxxxxxxx]
    [, PXRACF={YES|NO}]
JQP$DFU TYPE=FINAL           ← Last entry
```

#### TYPE

This parameter is required.

TYPE= INITIAL	the first entry in the user table.
DEFAULT	the defaults for subsequent entries.
ENTRY	the user entry in the user table
FINAL	the last entry in the user table

A TYPE=DEFAULT entry provides a convenient means of specifying operands for subsequent TYPE=ENTRY entries. Specifying an operand in a TYPE=DEFAULT entry does not preclude specifying the operand in a TYPE=ENTRY entry. The TYPE=ENTRY specification always takes precedence. Multiple TYPE=DEFAULT entries can be provided. The most recent TYPE=DEFAULT operand specification takes precedence.

## USER

The JQP user ID. USER may be up to 8 characters in length. This parameter is required for TYPE=ENTRY entries.

USER= character 1 to 8 characters

## PSWD

The JQP password defined for this user. PSWD may be up to 8 characters in length. This parameter is optional. When PSWD is not coded, the users are not required to enter one. PSWD is ignored for RACF, TOP SECRET, and ACF2 users.

PSWD= character 1 to 8 characters

## CLASS

CLASS determines the commands a user can access. When CLASS is not specified, a value of USER is assumed.

CLASS=	USER	Normal user.
	EXTU	Extended user.
	OPER	Operator
	ADM	Administrator

## FLAG1

First set of user option switches (left to right) one through eight.  
To enable the switch, specify "1". To disable the switch, specify "0".  
Omit to use the default user flags specified by the UFLAG1 parameter in the Control table.

FLAG1= (1|0,1|0,1|0,1|0,1|0,1|0,1|0,1|0)

- Flag 1: The initial JQP definition screen is in "Display Mode" to prevent accidental update. Use the UPDATE command to toggle between "Display Mode" and "Update Mode".
- Flag 2: Bypass the Administration delete confirmation message.
- Flag 3: Bypass the initial Menu List screen for a single item.
- Flag 4: Unused
- Flag 5: Unused
- Flag 6: Unused
- Flag 7: Unused
- Flag 8: Unused

## MCRGRP

The logon macro group defined for this user. When MCRGRP is specified, a string of JQP commands in this macro are executed when the user logs on to JQP (see [3.5 JQPFDFMC – Logon Macro Table](#)).

MCRGRP= *character*            1 to 8 bytes

## NAME

Optional 32 byte name to describe the user.

NAME= *character*        1 to 32 bytes

## PRTGRP

The printer group defined for this user. When PRTGRP is specified, the user is allowed access to printers only from printers listed in the specified printer group.

PRTGRP= *character*            1 to 8 bytes

## PXRACF

RACF controls printer access for the user.

PXRACF=	<u>YES</u>	RACF controls printer access for the user.
	NO	RACF does not control printer access for the user.

### 3.9.2 Masking Userids

To help reduce the amount of JQP maintenance, use the masking characters in the USER parameter of the User table (JQPFDUFUS). Two special masking characters are defined by parameters MASKALP and MASKNUM in the Control Table (JQPFDUFCT). The MASKALP masking character masks any character, while the MASKNUM masks numeric characters only. When a user signs on to JQP, the user table is searched from top to bottom to find the correct user table entry. For this reason, **user entries containing masking characters should be placed near the end of the table.** When no table entry, including masking entries, is found, the dynamic parameters specified in the control table are used. Place masking characters in any position of the USER parameter.

Example JQPFDUFUS user table

JQP\$DFU TYPE=ENTRY, USER=DLM1	← entry 1
JQP\$DFU TYPE=ENTRY, USER=DLM#	← entry 2
JQP\$DFU TYPE=ENTRY, USER=*LM*	← entry 3
JQP\$DFU TYPE=ENTRY, USER=DLMX	← entry 4

Example 1: User "DLM1" signs on to JQP. Entry 1 is selected.

Example 2: User "DLM2" signs on to JQP. Entry 2 is selected.

Example 3: User "DLMS" signs on to JQP. Entry 3 is selected.

Example 4: User "SLMS" signs on to JQP. Entry 3 is selected.

Example 5: User "DLMX" signs on to JQP. Entry 3 is selected.

NOTE: JQP internal security installations should be aware all users utilizing the masking entry have the same password.

### 3.10 JQPFDFCF - LPD Control File Group Table

The JQPFDFCF LPD control file group table defines how the LPD control file is built and what the LPD control file contains. The LPD control file is included with the report being sent to the LPD server.

#### 3.10.1 JQPFDFCF Format

JQP\$DCF	<u>TYPE</u> =INITIAL	← First entry
JQP\$DCF	<u>TYPE</u> =GROUP , <u>GROUP</u> =xxxxxxxxxx	← Defines a LPD control file group
JQP\$DCF	<u>TYPE</u> =ENTRY , <u>RTN</u> =xxxxxxxxxx , <u>LIT</u> = 'xxxxxxxxxx ' , <u>SWITCH</u> =00000000	← Defines a routine within group
JQP\$DCF	<u>TYPE</u> =FINAL	← Last entry

#### TYPE

This parameter is required.

TYPE=	INITIAL	the first entry in the LPD Control File group table.
	GROUP	the LPD Control File group name
	ENTRY	the LPD Control File group entry
	FINAL	the last entry in the LPD Control File group table

#### GROUP

The LPD Control File group name. This parameter is required for TYPE=GROUP entries.

GROUP= *character* LPD Control File group name.

#### LIT

Specify a one to sixteen byte literal to place into the LPD control file. When both RTN and LIT are specified on the same entry, RTN is processed first. The literal is translated from EBCDIC to ASCII.

LIT= *character* 1 to 16 bytes

#### RTN

The LPD control file routine defined. When both RTN and LIT are specified on the same entry, RTN is processed first. Two types of routines are available, filter and field routines. Reference section [3.10.2 JQPFDFCF Routines](#) for filter and field routines available.

RTN= *character* 1 to 8 bytes

## SWITCH

First set of option switches (left to right) one through eight.

To enable the switch, specify "1". To disable the switch, specify "0".

SWITCH= 00000000

SWITCH(1)	Bypass field truncation.
SWITCH(2)	Truncate the last non-blank byte of the OWNER-ID field when the last non-blank byte is numeric (0-9).
SWITCH(3)	Process the LIT (literal) parameter before the RTN. Process the RTN (routine) parameter after the LIT. For example: LIT=' FORM=' , RTN=FORMID yields FORM=STD. The following required conditions apply: 1. Both the LIT and RTN parameters are required. In the event both are not available, the SWITCH is ignored and normal processing is performed. 2. When the RTN returns a null string, the LIT parameter inserted before the RTN null string is removed. When the RTN=FCB returns variable "*****", the variable is considered a null string.
SWITCH(4)	Not Used
SWITCH(5)	Not Used
SWITCH(6)	Not Used
SWITCH(7)	Not Used
SWITCH(8)	Not Used

### 3.10.2 JQPFDFCF Filter Routines

<u>Filter Routine(s)</u>	<u>Description</u>
CMDUC	Class for banner page, ASCII uppercase "C".
CMDUH	Host name, ASCII uppercase "H". ← This filter is required.
CMDUI	Indent Printing, ASCII uppercase "I".
CMDUJ	Job name for banner page, ASCII uppercase "J".
CMDUL	Print banner page, ASCII uppercase "L".
CMDUM	Mail When Printed, ASCII uppercase "M".
CMDUN	Name of source file, ASCII uppercase "N".
CMDUO	Undocumented RFC1179 options command, uppercase "O".
CMDUP	User identification, ASCII uppercase "P". ← This filter is required.
CMDUS	Symbolic link data, ASCII uppercase "S".
CMDUT	Title for pr, ASCII uppercase "T".
CMDUU	Unlink data file, ASCII uppercase "U".
	Note: Builds entire filter command.
CMDUW	Width of output, ASCII uppercase "W".
	Note: Builds entire filter command.
CMD1	troff R font, ASCII number "1".
CMD2	troff I font, ASCII number "2".
CMD3	troff B font, ASCII number "3".
CMD4	troff S font, ASCII number "4".
CMDLC	Plot CIF file. ASCII lowercase "c".
CMDLD	Print DVI file, ASCII lowercase "d".
CMDLF	Print formatted file, ASCII lowercase "f".
	Note: Builds entire filter command.
CMDLG	Plot file, ASCII lowercase "g".
CMDLL	Print file leaving control characters, ASCII lowercase "l".
	Note: Builds entire filter command.
CMDLN	Print ditroff output file, ASCII lowercase "n".
CMDLO	Print Postscript output file, ASCII lowercase "o".
CMDLP	Print file with "pr" format, ASCII lowercase "p".
CMDLR	File to print with FORTRAN carriage control, ASCII lowercase "r".
CMDLT	Print troff output file, ASCII lowercase "t".
CMDLV	Print raster file, ASCII lowercase "v".

Note: Filter routines CMDUH (Host Name) and CMDUP (User Identification) are required.

Note: At least one lowercase filter is required.

### 3.10.3 JQPFDFCF Field Routines

<u>Field Routine(s)</u>	<u>Truncation</u>	<u>Description</u>
ACCTNO	No	Report's Accounting Number
APPLID	Yes	JQP VTAM APPLID
CLASS	No	Report's SYSOUT Class
COPIES	Yes	Report's Number of Copies
DDNAME	Yes	Report's DD Name
DESTID	Yes	Report's Destination Name
DSNAME	Yes	Report's Dataset Name
FCB	Yes	Report's FCB Name
FORMDEF	Yes	Report's Form Definition
FORMID	Yes	Report's Form ID
IPADDR	Yes	Printer TCP/IP Address
IPHOST	Yes	JQP TCP/IP Host Name
JESNAME	Yes	Report's JES Name
JOBID	No	Report's Job ID
JOBNAME	Yes	Report's Job Name
LF	No	Line Field, x'0A'
NETACCT	Yes	Report's Network Account Number
OUTGRP	Yes	Report's Output Group ID
OWNER	Yes	Report's Owner Name
PAGECNT	Yes	Report's Page Count
PAGEDEF	Yes	Report's Page Definition
PRINTER	Yes	Printer ID
PRINTQ	Yes	Printer Queue Name
PROGNAME	Yes	Programmer's Name
SYSID	Yes	z/OS System ID
UCS	Yes	Universal Character Set
USERDAT1	Yes	Report's USERDATA Parameter One
USERDAT2	Yes	Report's USERDATA Parameter Two
USERDAT3	Yes	Report's USERDATA Parameter Three
WIDTH	No	Destination Width Parameter
XWRITER	Yes	Report's XWRITER Name

### 3.10.4 JQPFDFCF Example

#### JQPFDFCF Example

---

```
1.....10.....20.....30.....
    JQP$DCF TYPE=GROUP, GROUP=SYSTEM
* HOST NAME
    JQP$DCF TYPE=ENTRY, RTN=CMDUH
    JQP$DCF TYPE=ENTRY, RTN=IPHOST
    JQP$DCF TYPE=ENTRY, RTN=LF
* USER IDENTIFICATION
    JQP$DCF TYPE=ENTRY, RTN=CMDUP
    JQP$DCF TYPE=ENTRY, RTN=APPLID, LIT='.'
    JQP$DCF TYPE=ENTRY, RTN=FORMID
    JQP$DCF TYPE=ENTRY, RTN=LF
* JOB NAME FOR BANNER
    JQP$DCF TYPE=ENTRY, RTN=CMDUJ
    JQP$DCF TYPE=ENTRY, RTN=JOBNAME, LIT='.'
    JQP$DCF TYPE=ENTRY, RTN=JOBID
    JQP$DCF TYPE=ENTRY, RTN=LF
* NAME OF SOURCE FILE
    JQP$DCF TYPE=ENTRY, RTN=CMDUN
    JQP$DCF TYPE=ENTRY, RTN=JOBNAME, LIT='.'
    JQP$DCF TYPE=ENTRY, RTN=JOBID
    JQP$DCF TYPE=ENTRY, RTN=LF
* PRINT BANNER PAGE
    JQP$DCF TYPE=ENTRY, RTN=CMDUL
    JQP$DCF TYPE=ENTRY, RTN=OWNER
    JQP$DCF TYPE=ENTRY, RTN=LF
* WIDTH OF OUTPUT
    JQP$DCF TYPE=ENTRY, RTN=CMDUW
    JQP$DCF TYPE=ENTRY, RTN=WIDTH
    JQP$DCF TYPE=ENTRY, RTN=LF
* PRINT FORMATTED FILE
    JQP$DCF TYPE=ENTRY, RTN=CMDLF
    JQP$DCF TYPE=ENTRY, RTN=LF
* UNLINK DATA FILE
    JQP$DCF TYPE=ENTRY, RTN=CMDUU
    JQP$DCF TYPE=ENTRY, RTN=LF
```

---

### 3.11 JQPFDFPT – Print Transform Member Table

The JQPFDFPT print transform member table specifies the options used to perform AFP to PCL or Postscript. Support for both fully composed AFP MODCA and AFP line data is available. The JQPFDFPT table is only used to interface with the MacKinney Systems product MacKinney Print Transform (MPT). When the MPT product is not available, ignore the JQPFDFPT table.

#### 3.11.1 JQPFDFPT Format

```
JQP$DFT TYPE=INITIAL ← First entry
JQP$DFT TYPE=DEFAULT ← Specifies defaults for subsequent entries
[, FONTSUB=$FSxxxxx]
[, PDL={PCL|PS}]
[, RESGRP={'_'|0|1|2|3}]
[, SWITCH1=1000000]
[, SWITCH2=0000000]
[, TRAYMAP={$TMPSxxx|TMPCxxx}]
[, GENERAL_AUTOR={YES|NO}]
[, GENERAL-DEBUG={0|1|2|3}]
[, GENERAL_FORMX={0|nnnnn}]
[, GENERAL_FORMY={0|nnnnn}]
[, GENERAL_PAGEH={0|nnnnn}]
[, GENERAL_PAGEW={0|nnnnn}]
[, GENERAL_PAGEX={0|nnnnn}]
[, GENERAL_PAGEY={0|nnnnn}]
[, GENERAL_ROTATION={0|90|180|270}]
[, GENERAL_STARPAGE={0|nnnnn}]
[, GENERAL_STOPPAGE={0|nnnnn}]
[, GENERAL_STOPOMR={YES|NO}]
[, AFP_CHARSET=(C0xxxxxxx,C0xxxxxxx,C0xxxxxxx,C0xxxxxxx)]
[, AFP_CODEPAGE=(T1xxxxxxx,T1xxxxxxx,T1xxxxxxx,T1xxxxxxx)]
[, AFP_FONT=(X0xxxxxxx,X0xxxxxxx,X0xxxxxxx,X0xxxxxxx)]
[, AFP_FORMDEF=F1xxxxxxx]
[, AFP_PAGEDEF=P1xxxxxxx]
[, AFP_USETRC={YES|NO}]
[, PCL_BITMAPS={NO|YES}]
[, PCL_COLOR={NO|YES}]
[, PCL_DUPLEX={0|1|2|-}]
[, PCL_FITPAGE={NO|YES}]
[, PCL_FITPAGEH=nn.nnnnnn]
[, PCL_FITPAGEW=nn.nnnnnn]
[, PCL_GREY={0|1}]
[, PCL_IMAGECMP={0|1|2|3}]
[, PCL_PAGESIZE={1|2|3|6|25|26|27|45|46|71|72|80|81|90|91|100}]
[, PCL_PAGEX={0|nnnnn}]
[, PCL_PAGEY={0|nnnnn}]
[, PCL_SHADING={0|1|3|11|21|36|56|81|100}]
[, PCL_VECTOR={1|2}]
[, PS_DSC={0,1}]
[, PS_DUPLEX={0|1|2|-}]
[, LINE_FCB=FCB2xxxx]
[, LINE_FONT1=(nnn,{YES|NO},{YES|NO},nnn)
[, LINE_FONT2=(nnn,{YES|NO},{YES|NO},nnn)
[, LINE_FONT3=(nnn,{YES|NO},{YES|NO},nnn)
[, LINE_FONT4=(nnn,{YES|NO},{YES|NO},nnn)
[, LINE_LPP=nnn]
[, LINE_OVERLAY=O1xxxxxxx]
[, LINE_USETRC={YES|NO}]
```

JQP\$DFT TYPE=ENTRY

← Specifies a print transform member

```
,MEMBER=xxxxxxxxx
[,DESC='xxxxxxxxx']
[,FONTSUB=$FSxxxxx]
[,PDL={PCL|PS}]
[,RESGRP={'_'|0|1|2|3}]
[,SWITCH1=00000000]
[,SWITCH2=00000000]
[,TRAYMAP={$TMPSxxx|TMPCxxx}]
[,GENERAL AUTOR={YES|NO}]
[,GENERAL-DEBUG={0|1|2|3}]
[,GENERAL FORMX={0|nnnn}]
[,GENERAL FORMY={0|nnnn}]
[,GENERAL PAGEH={0|nnnn}]
[,GENERAL PAGEW={0|nnnn}]
[,GENERAL PAGEX={0|nnnn}]
[,GENERAL PAGEY={0|nnnn}]
[,GENERAL ROTATION={0|90|180|270}]
[,GENERAL STARPAGE={0|nnnn}]
[,GENERAL STOPPAGE={0|nnnn}]
[,GENERAL STOPOMR={YES|NO}]
[,AFP CHARSET=(C0xxxxxx,C0xxxxxx,C0xxxxxx,C0xxxxxx)]
[,AFP CODEPAGE=(T1xxxxxx,T1xxxxxx,T1xxxxxx,T1xxxxxx)]
[,AFP FONT=(X0xxxxxx,X0xxxxxx,X0xxxxxx,X0xxxxxx)]
[,AFP FORMDEF=F1xxxxxx]
[,AFP PAGEDEF=P1xxxxxx]
[,AFP USETRC={YES|NO}]
[,PCL BITMAPS={NO|YES}]
[,PCL COLOR={NO|YES}]
[,PCL DUPLEX={0|1|2|-}]
[,PCL FITPAGE={NO|YES}]
[,PCL FITPAGEH=nn.nnnnn]
[,PCL FITPAGEW=nn.nnnnn]
[,PCL GREY={0|1}]
[,PCL IMAGECMP={0|1|2|3}]
[,PCL PAGESIZE={1|2|3|6|25|26|27|45|46|71|72|80|81|90|91|100}]
[,PCL PAGEX={0|nnnn}]
[,PCL PAGEY={0|nnnn}]
[,PCL SHADING={0|1|3|11|21|36|56|81|100}]
[,PCL VECTOR={1|2}]
[,PS DSC={0,1}]
[,PS DUPLEX={0|1|2|-}]
[,LINE FCB=FCB2xxxx]
[,LINE FONT1=(nnn,{YES|NO},{YES|NO},nnn)]
[,LINE FONT2=(nnn,{YES|NO},{YES|NO},nnn)]
[,LINE FONT3=(nnn,{YES|NO},{YES|NO},nnn)]
[,LINE FONT4=(nnn,{YES|NO},{YES|NO},nnn)]
[,LINE LPP=nnn]
[,LINE OVERLAY=O1xxxxxx]
[,LINE USETRC={YES|NO}]
```

JQP\$DFT TYPE=FINAL

← Last entry

## TYPE

This parameter is required.

TYPE= INITIAL	the first entry in the Print Transform Member table.
DEFAULT	the defaults for subsequent entries.
ENTRY	the Print Transform Member entry
FINAL	the last entry in the Print Transform Member table

A TYPE=DEFAULT entry provides a convenient means of specifying operands for subsequent TYPE=ENTRY entries. Specifying an operand in a TYPE=DEFAULT entry does not preclude specifying the operand in a TYPE=ENTRY entry. The TYPE=ENTRY specification always takes precedence. Multiple TYPE=DEFAULT entries can be provided. The most recent TYPE=DEFAULT operand specification takes precedence.

## MEMBER

The AFP print transform member name. This parameter is required for TYPE=ENTRY calls.

MEMBER= *character*                      Print Transform Member name, 1 to 8 characters

## DESC

Optional 32 byte description for the print transform member.

DESC= '*character*'                      1 to 32 characters

## FONTSUB

The font substitution member name used for the transformation.

FONTSUB= \$FSxxxx                      Bytes 1-3 = \$FS  
Bytes 4-8 = Any valid non-blank characters.

Note: The font substitution member name must be eight bytes in length.

## PDL

The Program Description Language for the print transform.

PDL=  $\frac{PCL}{PS}$

the print transform output is PCL.

the print transform output is Postscript.

## RESGRP

The MPT resource group defined for this member. This number corresponds with the suffix added to the resource DD names in the MPT JCL. A resource group is a group of DD names in the MPT JCL containing AFP resource libraries to use during a transformation. Specify RESGRP= ' ' to use the MPTGRP parameter in the Control Table JQPFDCT.

RESGRP= ' \_ '  
          0|1|2|3

use the MPTGRP parameter in the Control Table JQPFDCT.

suffix added to the resource DD names in the MPT JCL.

## SWITCH1

Print transform option switch one (left to right) one through eight. To enable the switch, specify “1”. To disable the switch, specify “0”.

SWITCH1= 10000000

SWITCH1(1)	MPT forces top of form for each JES data set within the report.
SWITCH1(2)	MPT processes reports with Page Mode Data (Mixed Document) as AFPLinedata rather than AFP. <b>This switch is disabled when Control Table MPTFLAG(2) is on.</b>
SWITCH1(3)	Not Used
SWITCH1(4)	Not Used
SWITCH1(5)	Not Used
SWITCH1(6)	Not Used
SWITCH1(7)	Not Used
SWITCH1(8)	Not Used

## SWITCH2

Print transform option switch two (left to right) one through eight. To enable the switch, specify “1”. To disable the switch, specify “0”.

SWITCH1= 00000000

SWITCH2(1)	Not Used
SWITCH2(2)	Not Used
SWITCH2(3)	Not Used
SWITCH2(4)	Not Used
SWITCH2(5)	Not Used
SWITCH2(6)	Not Used
SWITCH2(7)	Not Used
SWITCH2(8)	Not Used

## TRAYMAP

The tray map name for the print transform member. The tray maps are defined in the MPT product.

TRAYMAP= \$TMPCxxx            PCL tray map name.  
          \$TMPSxxx            Postscript tray map name.

**Warning! DSC=YES causes a postscript printer to ignore all tray map commands**

## GENERAL\_AUTOR

Automatic detection of the direction of text on the page defined for this member.

GENERAL\_AUTOR= NO     the page is rotated based upon the ROTATION parameter.  
                  YES     the application determines the direction each page should be oriented and changes the rotation accordingly. All text on the page is sampled for orientation. The page is rotated in the same direction as the majority of the text. The ROTATION parameter is ignored.

## GENERAL\_DEBUG

The level of information written to the Log File defined for this member.

GENERAL\_DEBUG= 0     Error Level, logs only Error messages.  
                  1     Warning Level, logs both Error and Warning messages.  
                  2     Info Level, logs Error, Warning and some informational messages.  
                  3     Diagnostic Level, increases the detail level of informational messages.

## GENERAL\_FORMX

The number of pels to shift right from the left side of the page defined for this member. Any integer value -22000 to +22000 (240 pels per inch) is valid.

GENERAL\_FORMX= 0 | nnnnn     value -22000 to +22000 (240 pels per inch)

## GENERAL\_FORMY

The number of pels to shift down from the top of the page defined for this member. Any integer value -22000 to +22000 (240 pels per inch) is valid.

GENERAL\_FORMY= 0 | nnnnn     value -22000 to +22000 (240 pels per inch)

## GENERAL\_PAGEH

The page height in pels defined for this member. This should be more than the actual content height. Otherwise, the content is truncated. Any integer value 0 to 22000 (240 pels per inch) is valid. When the value is zero, the original page height is used. This option is for Postscript output only. For PCL output, use the PCL Fit to Page parameters.

GENERAL\_PAGEH= 0|nnnnn value 0 to 22000 (240 pels per inch)

## GENERAL\_PAGEW

The page width in pels defined for this member. This should be more than the actual content width. Otherwise, the content is truncated. Any integer value 0 to 22000 (240 pels per inch) is valid. When the value is zero, the original page width is used. This option is for Postscript output only. For PCL output, use the PCL Fit to Page parameters.

GENERAL\_PAGEW= 0|nnnnn value 0 to 22000 (240 pels per inch)

## GENERAL\_PAGEX

The number of pels to shift the page right relative to the left edge of the page defined for this member. Any integer value -22000 to +22000 (240 pels per inch) is valid.

For PCL transforms, a negative Page X Offset shifts the data to the left. However, the data never shifts outside of the page. Any data shifted off the page is placed at the left margin and causes overlapping of text, shading and graphics. Reference the section [3.11.2 JQPFDFPT Offsets](#) for more information.

GENERAL\_PAGEX= 0|nnnnn value -22000 to +22000 (240 pels per inch)

## GENERAL\_PAGEY

The number of pels to shift the page down relative to the top edge of the page defined for this member. Any integer value -22000 to +22000 (240 pels per inch) is valid.

Reference the section [3.11.2 JQPFDFPT Offsets](#) for more information.

GENERAL\_PAGEY= 0|nnnnn value -22000 to +22000 (240 pels per inch)

## GENERAL\_ROTATION

Specify the rotation value for all the pages in the output document(s). Specify 0, 90, 180 or 270 degrees.

**When Auto Rotate is Yes, this parameter is ignored**

GENERAL\_ROTATION= 0|90|180|270

## GENERAL\_STARPAGE

The page number where the conversion begins defined for this member. When this value is zero, the conversion starts at page 1. When the value specified is greater than the number of pages in the input data stream, no pages are converted.

To start the output at the beginning of the file, set stop page to zero

To output all pages, set both start page and stop page to zero.

To output a range within the report, enter the required numbers into the Start page and stop page.

When stop page is greater than zero, start page must be less than or equal to stop page.

GENERAL\_STARPAGE= 0  
*value* starting page number

## GENERAL\_STOPPAGE

The page number where the conversion stops defined for this member. Conversion stops if the stop page value is reached or the end of the input print stream is reached. This value is ignored when set to zero.

To start the output at the beginning of the file, set stop page to zero

To output all pages, set both start page and stop page to zero.

To output a range within the report, enter the required numbers into the Start page and stop page.

When stop page is greater than zero, start page must be less than or equal to stop page.

GENERAL\_STOPPAGE= 0  
*value* stopping page number

## GENERAL\_STOPOMR

The stop on missing resources option defined for this member.

GENERAL\_STOPOMR= YES the application stops processing when an AFP resource is not found or cannot be converted.  
NO the application writes a message on the log for each missing AFP resource and attempts to continue without the AFP resource.

## AFP\_CHARSET

The Character Set to use if a mapping was not specified in the AFP file or if the character set is not found in the resource directory. Specify any character set found in the resource directory. When this value is specified, the default code page should also be specified.

For AFP reports, only one Character Set and Code page combination can be specified.

For AFP Line Data or 1403 Line Data, one to four Character Set and Code Page combinations can be specified. The combinations must be specified in order from one to four with no missing combination.

```
AFP_CHARSET= (C0xxxxxxx,C0xxxxxxx,C0xxxxxxx,C0xxxxxxx)
```

## AFP\_CODEPAGE

The Code Page to use if none was specified in the input AFP file or if the code page is not found in the resource directory. Specify any code page found in the resource directory. This value should be specified if Character Set is specified.

For AFP reports, only one Character Set and Code page combination can be specified.

For AFP Line Data or 1403 Line Data, one to four Character Set and Code Page combinations can be specified. The combinations must be specified in order from one to four with no missing combination.

```
AFP_CODEPAGE= (T1xxxxxxx,T1xxxxxxx,T1xxxxxxx,T1xxxxxxx)
```

## AFP\_FONT

The Coded Font to use if none is specified in the input AFP file or if the coded font is not found in the resource directory. Specify any coded font found in the resource directory.

For AFP reports, only one Font can be specified.

For AFP Line Data or 1403 Line Data, one to four Fonts can be specified. The Fonts must be specified in order from one to four with no missing FONT.

Note: The OUTPUT JCL CHAR parameter overrides this parameter.

```
AFP_FONT= (X0xxxxxxx,X0xxxxxxx,X0xxxxxxx,X0xxxxxxx)
```

## AFP\_FORMDEF

The Form Definition resource defined for this member. Specify any Form Definition found in the resource directory. This only applies to AFP line data print streams.

Note: The OUTPUT JCL FORMDEF parameter overrides this parameter.

AFP\_FORMDEF= F1xxxxxx

## AFP\_PAGDEF

The Page Definition resource defined for this member. Specify any Page Definition found in the resource directory. This only applies to AFP line data print streams.

Note: The OUTPUT JCL PAGEDEF parameter overrides this parameter.

AFP\_PAGDEF= P1xxxxxx

## AFP\_USETRC

The application looks for a Table Reference Character (or font index) specifying the font to use for the current record. This index is usually found on the second byte of the current record.

Note: The OUTPUT JCL TRC parameter overrides this parameter.

AFP\_USETRC= NO      the application does not use the Table Reference Character.  
              YES      the application uses the Table Reference Character.  
                          This only applies to AFP line data print streams.

## PCL\_BITMAPS

Bitmaps are allowed to contain more than one color.  
This feature results in a larger PCL file and an effect on performance.  
**Not Implemented Yet.**

PCL_BITMAPS=	<u>NO</u>	Bitmaps do not have more than one color.
	YES	Bitmaps are allowed to have more than one color.

## PCL\_COLOR

Colored output is enabled (if input supports color).  
This functionality produces a larger PCL file and performance is also affected.  
Each output object must contain only a single color.

PCL_COLOR=	<u>NO</u>	Colored output is not enabled.
	YES	Colored output is enabled.

## PCL\_DUPLEX

The output PCL can be printed on both sides of a sheet of paper.  
Note: The OUTPUT JCL DUPLEX parameter overrides this parameter.

PCL_DUPLEX=	<u>0</u>	Output prints on one side only.
	1	Output prints duplex using the long edge (tumble).
	2	Output prints duplex using the short edge (normal).
	-	Output prints duplex as specified in the input print data stream.

## PCL\_FITPAGE

The page size should be scaled to an area defined by Fit to Page Height and Fit to Page Width.

PCL_FITPAGE=	<u>NO</u>	Scales the page size to an area defined by Fit to Page Height and Fit to Page Width.
	YES	Does not scale the page size to an area defined by Fit to Page Height and Fit to Page Width.

## PCL\_FITPAGEH

The Fit to Page Height in inches defined.

When PCL\_FITPAGE=YES, the page is scaled to fit this height.

When PCL\_FITPAGE=NO, this parameter is ignored.

Specify PCL\_FITPAGEH=00.000000 to allow the application to calculate this height using the placement of forms, overlays and other objects.

PCL\_FITPAGEH= nn.nnnnnn Valid values are a six decimal number between 00.000000 and 99.999999  
Example, for a page height of 11 inches, specify PCL\_FITPAGEH=11.000000

## PCL\_FITPAGEW

The Fit to Page Width in inches defined.

When PCL\_FITPAGE=YES, the page is scaled to fit this width.

When PCL\_FITPAGE=NO, this parameter is ignored.

Specify PCL\_FITPAGEW=00.000000 to allow the application to calculate this width using the placement of forms, overlays and other objects.

PCL\_FITPAGEW= nn.nnnnnn Valid values are a six decimal number between 00.000000 and 99.999999  
Example, for a page width of 8.5 inches, specify PCL\_FITPAGEW=08.500000

## PCL\_GREY

The grey scale option defined.

**Not Implemented Yet.**

PCL\_GREY= 0|1

## PCL\_IMAGECMP

The type of compression to use for images defined for this member.

PCL\_IMAGECMP= 3 Delta compression  
0 No compression  
1 RLE (Run Length Encoding) compression  
2 TIFF compression  
4 Best compression as determined by MPT.

## PCL\_PAGESIZE

The size of the output page defined for this member.

PCL_PAGESIZE=	<u>2</u>	Letter (8.5" x 11")
	1	Executive (7.25" x 10.5")
	3	Legal (8.5" x 14")
	6	Ledger (11" x 17")
	25	A5 (148mm x 210mm)
	26	A4 (210mm x 297mm)
	27	A3 (297mm x 420mm)
	45	JIS B5 (182mm x 257mm)
	46	JIS B4 (250mm x 354mm)
	71	Hagaki Postcard (100mm x 148mm)
	72	Oufuku Postcard (200mm x 148mm)
	80	Monarch Envelope (3 7/8" x 7 1/2")
	81	Commercial Envelope 10 (4 1/8" x 9 1/2")
	90	International DL (110mm x 220mm)
	91	International C5 (162mm x 229mm)
	100	International B5 (176mm x 250mm)

## PCL\_PAGEX

The number of pels to shift the page right relative to the left edge of the page defined for this member. Any integer value 0 to 22000 (240 pels per inch) is valid. Reference the section [3.11.2 JQPFDFPT Offsets](#) for more information.

**A negative Page X Offset shifts the data to the left. However, the data shifts outside of the page. Any data shifted off the page is placed at the left margin and causes overlapping of text, shading and graphics.**

PCL\_PAGEX= 0|nnnnn value -22000 to +22000 (240 pels per inch)

## PCL\_PAGEY

The number of pels to shift the page down relative to the top edge of the page defined for this member. Any integer value 0 to 22000 (240 pels per inch) is valid. Reference the section [3.11.2 JQPFDFPT Offsets](#) for more information.

PCL\_PAGEY= 0|nnnnn value -22000 to +22000 (240 pels per inch)

## PCL\_SHADING

The shading level to use for output defined for this member. PCL supports eight discrete shading levels. When this field is zero, the original pattern is used.

PCL_SHADING=	0	Original
	1	1 to 2%
	3	3 to 10%
	11	11 to 20%
	21	21 to 35%
	36	36 to 55%
	56	56 to 80%
	81	81 to 99%
	100	100%

## PCL\_VECTOR

The class of vector fonts defined for this member.

Image class scales well but file size is larger and performance is slower.

RLE class is faster and produces a smaller output file. However, this font does not scale well. When the output page is scaled DOWN, this value is set to image automatically (this usually occurs when "Fit to Page" is Yes).

PCL_VECTOR=	1	Image
	2	RLE

## PS\_DSC

DSC comments are placed in the print data stream.

Selecting this option adds comments to the Postscript output file. DSC (Document Structuring Convention) is an Adobe Postscript language commenting structure allowing the processing of postscript files without the processing program needing a language level knowledge of the postscript file.

PS\_DSC= NO    DSC comments are not placed in the print data stream.  
          YES    DSC comments are placed in the print data stream.

**Warning! DSC=YES causes a postscript printer to ignore all tray map commands**

## PS\_DUPLEX

The output Postscript can be printed on both sides of a sheet of paper.

Note: The OUTPUT JCL DUPLEX parameter overrides this parameter.

PS\_DUPLEX= 0            Output prints on one side only.  
          1            Output prints duplex using the long edge (tumble).  
          2            Output prints duplex using the short edge (normal).  
          -            Output prints duplex as specified in the input print data stream.

## LINE\_FCB

The FCB image used for the print transform defined for this member.

**Not Implemented Yet.**

LINE\_FCB= FCB2xxxx

## LINE\_FONT1

The FONT 1 information output defined for this member.

**Not Implemented Yet.**

LINE\_FONT1= (nnn, [YES|NO], [YES|NO], nnn)

Parameter 1: Font number. Specify the number of a valid true type fixed width font. Use the FONTS command to display valid font numbers.

Parameter 2: Font **BOLD** control.

NO non-BOLD font.  
YES BOLD font

Parameter 3: Font *ITALIC* control.

NO non-ITALIC font.  
YES ITALIC font

Parameter 4: Font Characters Per Inch (CPI) control. Specify a number between 1 and 20.

## LINE\_FONT2

The FONT 2 information output defined for this member.

**Not Implemented Yet.**

LINE\_FONT2= (nnn, [YES|NO], [YES|NO], nnn)

Parameter 1: Font number. Specify the number of a valid true type fixed width font. Use the FONTS command to display valid font numbers.

Parameter 2: Font **BOLD** control.

NO non-BOLD font.  
YES BOLD font

Parameter 3: Font *ITALIC* control.

NO non-ITALIC font.  
YES ITALIC font

Parameter 4: Font Characters Per Inch (CPI) control. Specify a number between 1 and 20.

## LINE\_FONT3

The FONT 3 information output defined for this member.

**Not Implemented Yet.**

```
LINE_FONT3= (nnn, [YES|NO], [YES|NO], nnn)
```

Parameter 1: Font number. Specify the number of a valid true type fixed width font. Use the FONTS command to display valid font numbers.

Parameter 2: Font **BOLD** control.

NO non-BOLD font.

YES BOLD font

Parameter 3: Font *ITALIC* control.

NO non-ITALIC font.

YES ITALIC font

Parameter 4: Font Characters Per Inch (CPI) control. Specify a number between 1 and 20.

## LINE\_FONT4

The FONT 4 information output defined for this member.

**Not Implemented Yet.**

```
LINE_FONT4= (nnn, [YES|NO], [YES|NO], nnn)
```

Parameter 1: Font number. Specify the number of a valid true type fixed width font. Use the FONTS command to display valid font numbers.

Parameter 2: Font **BOLD** control.

NO non-BOLD font.

YES BOLD font

Parameter 3: Font *ITALIC* control.

NO non-ITALIC font.

YES ITALIC font

Parameter 4: Font Characters Per Inch (CPI) control. Specify a number between 1 and 20.

## LINE\_LPP

The maximum number of Lines Per Page (LPP), 1 to 200.

**Not Implemented Yet.**

LINE\_LPP= nnn            1 to 200

## LINE\_OVERLAY

The name of the AFP Form/Overlay resource file found in the resource directory.

**Not Implemented Yet.**

Note: The OUTPUT JCL OVERLAYF parameter overrides this parameter.

LINE\_OVERLAY= 01xxxxxx

## LINE\_USETRC

The print transform looks for a Table Reference Character (TRC) or font index on the print record. This index is usually found on the second byte of the current record.

**Not Implemented Yet.**

Note: The OUTPUT JCL TRC parameter overrides this parameter.

LINE\_USETRC= NO        Table Reference Characters (TRC) are not in the report.  
              YES        Table Reference Characters (TRC) are in the report.

### 3.11.2 JQPFDFPT Offsets

The General x/y Offset settings (Page Size, Form position, Margin) get applied to the print stream as it goes into our intermediate page. Therefore its impact is seen on all transform outputs.

The PCL Output x/y offsets are isolated to the PCL transform.

The General settings have a bit more flexibility than PCL.

For example you can adjust form positioning separately, leaving the dynamic data in its original position.

The PCL setting moves the whole page, Form and Dynamic data.

The General and PCL settings are interactive, but the General takes precedence since it is applied as it goes into the intermediate page. The PCL settings would be applied on top of the General.

### 3.11.3 JQPFDFPT Example

JQPFDFPT Example

1	10	20	30	40	50	60	70..
JQPFDFPT CSECT							
JQP\$DFT TYPE=INITIAL							
JQP\$DFT TYPE=DEFAULT, PDL=PCL,							X
PCL_DUPLEX=1							
JQP\$DFT TYPE=ENTRY, MEMBER=PCL1							
JQP\$DFT TYPE=DEFAULT, PDL=PS,							X
PS_DUPLEX=1							
JQP\$DFT TYPE=ENTRY, MEMBER=PS1							
JQP\$DFT TYPE=FINAL							
END							

## 3.12 JQPFDFEJ – Email Job Name Table

The JQPFDFEJ email job name table restricts the email notification feature to only reports with job names defined in the table.

### 3.12.1 JQPFDFEJ Format

JQP\$DFJ	<u>TYPE</u> =INITIAL	← First entry
JQP\$DFJ	<u>TYPE</u> =GROUP , <u>GROUP</u> =xxxxxxxxxx	← Defines a Job Name group
JQP\$DFJ	<u>TYPE</u> =ENTRY , <u>JOB</u> =xxxxxxxxxx	← Defines a Job Name entry
JQP\$DFJ	<u>TYPE</u> =FINAL	← Last entry

#### TYPE

This parameter is required.

TYPE= INITIAL	the first entry in the Email Job Name table.
GROUP	the Email Job Name group name
ENTRY	the Email Job Name entry
FINAL	the last entry in the Email Job Name table

#### GROUP

The Email Job Name group name. This parameter is required for TYPE=GROUP entries.

GROUP= *character* Email Job Name group name.

#### JOB

The job name defined in table entry. An "\*" specifies a generic job name. This parameter is required for TYPE=ENTRY calls.

JOB= *character* 1 to 8 bytes

### 3.12.2 JQPFDFEJ Example

#### JQPFDFEJ Example

---

```
1.....10.....20.....30.....  
JQPFDFEJ CSECT  
      JQP$DFJ TYPE=INITIAL  
*  
      JQP$DFJ TYPE=GROUP, GROUP=SHIPPING  
      JQP$DFJ TYPE=ENTRY, JOB=SHIP0001  
      JQP$DFJ TYPE=ENTRY, JOB=SHIP0002  
*  
      JQP$DFJ TYPE=GROUP, GROUP=PAYROLL  
      JQP$DFJ TYPE=ENTRY, JOB=PAY*  
*  
      JQP$DFJ TYPE=FINAL  
      END
```

---

### 3.13 JQPFDFNT – Font Name Table

The JQPFDFNT font name table defines font numbers and names to use with MPT line data print transforms. The FONTS command displays the fonts defined to JQP. **This feature is currently not implemented.**

#### 3.13.1 JQPFDFNT Format

```
JQP$FNT TYPE=INITIAL           ← First entry
JQP$FNT TYPE=ENTRY             ← Defines a Font Name entry
        , FONT#=nnn,
        , FONT='xxxxxxxx'
JQP$FNT TYPE=FINAL           ← Last entry
```

#### TYPE

This parameter is required.

TYPE= INITIAL	the first entry in the Font Name table.
ENTRY	the Font Name entry
FINAL	the last entry in the Font Name table

#### FONT#

Font number assigned to the font. Specify a number between 1 and 100. This parameter is required. **Not implemented yet.**

```
FONT#= nnn           1 to 100
```

#### FONT

Font name assigned to the font. Specify one to 40 byte name for the font. This parameter is required. **Not implemented yet.**

```
FONT= 'xxxxxxxx'     1 to 40 bytes
```

#### 3.13.2 JQPFDFNT Example

JQPFDFNT Example

---

```
1.....10.....20.....30.....
JQPFDFNT CSECT
        JQP$FNT TYPE=INITIAL
*
JQP$FNT TYPE=ENTRY, FONT#=1, FONT='Courier New'
*
        JQP$FNT TYPE=FINAL
        END
```

---

### 3.14 JQPFTBSE – Printer Security Table

The JQPFTBSE table defines the relationship between the report’s OWNER ID and the printer. For printers defined in the table, only reports with a matching OWNER ID are printed. Reports without a matching OWNER ID are placed in a HOLD status. The same printer may have multiple OWNER ID entries. Printers not defined in the table are allowed to print all selected reports.

#### 3.14.1 JQPFTBSE Format

```
JQP$TBS TYPE=INITIAL                ← First entry
JQP$TBS TYPE=ENTRY                    ← Defines a printer security entry
        , PRINTER=xxxxxxxxx
        , OWNER=xxxxxxxxx
JQP$TBS TYPE=FINAL                    ← Last entry
```

**Note:** Table order is important. JQP searches the JQPFTBSE table top down and utilize the first entry matching the PRINTER and OWNER parameters.

**Note** Using the PRINTER=\* parameter secures all JQP printers. A matching OWNER parameter must be available to allow the report to print.

#### TYPE

This parameter is required.

TYPE= INITIAL	the first entry in the Printer Security table.
ENTRY	the Printer Security entry
FINAL	the last entry in the Printer Security table

#### PRINTER

The printer name to secure defined in this entry. Generic printer entries are supported using the “\*” character.

PRINTER= *character*                    1 to 8 bytes

#### OWNER

The report’s OWNER ID allowed to print on the printer. Generic owner entries are supported using the “\*” character.

OWNER= *character*                    1 to 8 bytes

### 3.14.2 JQPFTBSE Example

#### JQPFTBSE Example

---

```
1.....10.....20.....30.....
JQPFTBSE CSECT
*      JQP$TBS TYPE=INITIAL
      JQP$TBS TYPE=ENTRY, PRINTER=PAYROLL, OWNER=PAY00001
      JQP$TBS TYPE=ENTRY, PRINTER=PAYROLL, OWNER=PAY00002
*
* This entry allows only reports with an owner value beginning
* with TA99 to print on JQP printers beginning with PA00.
      JQP$TBS TYPE=ENTRY, PRINTER=PA00*, OWNER=TA99*
*
      JQP$TBS TYPE=FINAL
```

---

### 3.15 JQPFTRST – Automatic Restart Table

The JQPFTRST table defines the destination failed status codes automatically restarted by JQP. Destination failed status codes defined in the table automatically restart. Destination failed status codes not defined in the table do not automatically restart.

#### 3.15.1 JQPFTRST Format

JQP\$RST	<u>TYPE</u> =INITIAL	← First entry
JQP\$RST	<u>TYPE</u> =ENTRY	← Defines an automatic restart entry
	, <u>RESTART</u> =xxxxxxxx	
JQP\$RST	<u>TYPE</u> =FINAL	← Last entry

#### TYPE

This parameter is required.

TYPE=	INITIAL	the first entry in the Automatic Restart table.
	ENTRY	the Automatic Restart entry
	FINAL	the last entry in the Automatic Restart table

## RESTART

Specify the destination failed status code to restart.

RESTART=

FAIL-01	DFS record not found
FAIL-02	DFP record not found
FAIL-03	DFT record not found
FAIL-04	VTAM send failed
FAIL-05	FCB processing failed
FAIL-06	Printer setup failed
FAIL-07	VTAM SIMLOGON has failed
FAIL-09	Dynamic allocation failed
FAIL-0A	Open DCB failed
FAIL-0B	Dynamic un-allocation failed
FAIL-0C	DCB write failed
FAIL-0F	Delete report failed
FAIL-10	Report restart failed
FAIL-11	Read DCB failed
FAIL-12	Maximum record length exceeded
FAIL-13	Double Byte character string failed
FAIL-14	Single Byte character string failed
FAIL-15	SAPI logic failure
FAIL-16	GDDM ADMOPUJ load failure
FAIL-17	GDDM ADMOPUJ open failure
FAIL-18	GDDM ADMOPUJ print failure
FAIL-19	GDDM ADMOPUJ close failure
FAIL-1A	GDDM ADMOPUJ storage failure
FAIL-1B	No 32k buffer available
FAIL-1D	MPT print transform failure
FAIL-1E	No 2k buffer available
FAIL-1F	TCP/IP host unknown
FAIL-20	TCP/IP not available
FAIL-21	TCP/IP bind socket failed
FAIL-22	TCP/IP close socket failed
FAIL-23	TCP/IP connect socket failed
FAIL-24	TCP/IP create socket failed
FAIL-25	TCP/IP get host by name failed
FAIL-26	TCP/IP read socket failed
FAIL-27	TCP/IP shutdown both failed
FAIL-28	TCP/IP shutdown from failed
FAIL-29	TCP/IP shutdown to failed
FAIL-2A	TCP/IP write socket failed
FAIL-2B	TCP/IP LPD Queue Name rejected
FAIL-2C	TCP/IP LPD Negative Acknowledgement
FAIL-2D	TCP/IP Select Socket failed
FAIL-2E	TCP/IP Read From (Peek) failed
FAIL-30	JQP Exit JQPFEX01 returned a negative return code
FAIL-31	PJL incorrect response received
FAIL-32	PJL JOB canceled at the printer's console
FAIL-33	PJL response timed-out
EDRAINED	Printing failed and the destination is drained

### 3.15.2 JQPFTRST Example

#### JQPFTRST Example

---

```
1.....10.....20.....30.....  
JQPFTRST CSECT  
*      JQP$RST TYPE=INITIAL  
      JQP$RST TYPE=ENTRY,RESTART=FAIL-04  
      JQP$RST TYPE=ENTRY,RESTART=FAIL-1A  
      JQP$RST TYPE=ENTRY,RESTART=FAIL-1E  
      JQP$RST TYPE=FINAL
```

---

## Section IV

### User Reference

#### 4.1 Introduction to Using JQP

The following subjects are documented in this section:

- Logging on to JQP (Logon Screen)
- Using the Menu system

Not all sections are applicable to all end users. This depends upon how JQP is installed at your installation.

#### 4.2 Logging on to JQP

Logon to JQP in one of two ways. JQP may have been installed at your installation where logging on is automatic for each user. When you are not required to logon, skip to the next section. When you have any questions, ask your data processing personnel in charge of maintaining JQP.

1. From a blank VTAM screen, enter:

```
LOGON APPLID (jqp)
```

where '*jqp*' is the value assigned by your system programmer. The result should be the display of the JQP logon screen shown in [Section 4.3 JQP Logon Screen](#). When you do not see the JQP LOGON screen on your terminal, enter one of the following commands:

Local SNA terminals:	LOGON APPLID ( <i>jqp</i> ) LOGMODE (D4A32782)
Remote SNA terminals:	LOGON APPLID ( <i>jqp</i> ) LOGMODE (D4C32782)
NON-SNA terminals:	LOGON APPLID ( <i>jqp</i> ) LOGMODE (D4B32782)

2. The second method is to enter JQP from your VTAM Selection Menu. The USSTAB must be modified to include JQP (or APPL value in JQPFDFCT, if changed).

### 4.3 JQP Logon Screen

Immediately after VTAM connection is made between the physical terminal and JQP, the JQP LOGON screen displays.

```
JQPFILH x.x JES QUEUE FOR PRINTERS                               Term: T01C

Please enter your userid and password

User ID  : _____
Password : _____

                               MacKinney Systems
                               JES Queue for Printers
                               JJJJJJJJJJ  QQQQQQQQQQQQ  PPPPPPPPPPP
                               JJ   QQ           QQ  PP           PP
                               JJ   QQ           QQ  PP           PP
                               JJ   QQ           QQ  PPPPPPPPPPP
JJ   JJ   QQ           QQ  QQ  PP
JJ   JJ   QQ           QQ  QQ  PP
JJJJJJ  QQQQQQQQQQQQ  PP
```

- or -

When using RACF, TOP SECRET, or ACF2:

```
JQPFILX x.x JES QUEUE FOR PRINTERS                               Term: T01C

Please enter your userid and password

User ID  : _____
Password : _____

New Password :

                               MacKinney Systems
                               JES Queue for Printers
                               JJJJJJJJJJ  QQQQQQQQQQQQ  PPPPPPPPPPP
                               JJ   QQ           QQ  PP           PP
                               JJ   QQ           QQ  PP           PP
                               JJ   QQ           QQ  PPPPPPPPPPP
JJ   JJ   QQ           QQ  QQ  PP
JJ   JJ   QQ           QQ  QQ  PP
JJJJJJ  QQQQQQQQQQQQ  PP
```

When using RACF, TOP SECRET, or ACF2 Password Phrase:

```
JQPFILZ x.x  JES QUEUE FOR PRINTERS                               Term: T01C
Please enter your userid and password or phrase
User ID           ===>
Password or Phrase ===>
New Password or Phrase ===>

                               MacKinney Systems
                               JES Queue for Printers
                JJJJJJJJJ  QQQQQQQQQQQQ  PPPPPPPPPPP
                   JJ   QQ           QQ  PP           PP
                   JJ   QQ           QQ  PP           PP
                   JJ   QQ           QQ  PPPPPPPPPPP
                JJ   JJ   QQ           QQ  QQ  PP
                JJ   JJ   QQ           QQ  QQ  PP
                JJJJJJ  QQQQQQQQQQQQ  PP
```

From the Logon screen, enter your USER ID and PASSWORD or PHRASE assigned by your JQP administrator. While your logon is processing, some JQP PF and PA keys may be automatically activated for you. Your JQP administrator controls this feature. Once logon is complete, the result should be the display of the Main command screen explained in Section 4.4 JQP Menu System.

For RACF, ACF2, and TOP SECRET sites, your password or password phrase can be changed by entering your current password or password phrase and a new password or password phrase.

## **SYSTEM Programming Consideration**

The user responds by entering his user ID and password or phrase. When the ID and password are valid, JQP processes the logon macro group (JQPFDPMC) name in the “Macro Group” field for the user. Normally the logon macro performs such functions as setting PF and PA keys.

For RACF, ACF2, and TOP SECRET sites, to change the password, enter the current password and a new password.

NOTE: Change the LOGON screen format by customizing the JQPFDILH source table. The RACF, ACF2, and TOP SECRET LOGON screen is source table JQPFDILX and JQPFDILZ for password phrase support. Assembler source for the distributed version is included as part of the installation procedure.

Optionally, bypass the LOGON screen so your users never have to see a JQP LOGON screen.

A password phrase is an alternative to a password allowing a longer length and a larger character set. RACF supports password phrases from 9 to 100 characters in length, made up of mixed case letters, numbers, and special characters, including blanks.

RACF Password Phrase support started with z/OS 1.8.

When the new-password-phrase exit (ICHPWX11) is present and allows it, the password phrase can be 9-100 characters. When ICHPWX11 is not present, the password phrase must be 14-100 characters.

### **RACF enforces a basic set of rules for password phrases**

- Maximum length: 100 characters
- Minimum length: 9 characters, when ICHPWX11 is present and allows the new value
- Minimum length: 14 characters, when ICHPWX11 is not present
- The user ID (as sequential upper case characters or sequential lower case characters) is not part of the password phrase.
- At least 2 alphabetic characters are specified (A - Z, a - z)
- At least 2 non-alphabetic characters are specified (numeric, punctuation, special characters, blanks)
- No more than 2 consecutive characters are identical

The installation has the option of using the new-password-phrase exit to augment RACF function when validating a new password phrase.

**Note: JQP considers any password longer than 8 characters a password phrase.**

## 4.4 JQP Menu System

The JQP Menu System is a group of “user friendly” screens to manage resources defined to JQP.

After signing on to JQP, the following screen displays:

```
JQPFDISL x.x.x      JES QUEUE FOR PRINTERS      User: DLM1      Term: T01B
===>
1: Display Print Work Queue (Active)    16: Keys, PFkeys Currently Set
2: Display Destinations                 17: LibraryH, Printer Groups
3: Display VTAM Printers                18: LibraryM, Logon Macro Groups
4: Display TCP/IP Printers              19: LibraryP, Terminals and Printers
5: Display VTAM Terminals               20: LibraryQ, Print Work Queue
6: Display Users                        21: LibraryS, Destinations
7: Display Print Work Queue (All)       22: LibraryT, JQP Active Tasks
8: Display Print Transform Members      23: LibraryU, Users
                                         24: LibPX, Terminals and Printers Ext.
                                         25: LibQX, Print Work Queue Extended
                                         26: Show, JQP Control Parameters
12: Export Definitions                  27: LibraryC, Commands and Security
13: Import Definitions                  28: LibraryF, LPD Control File
                                         29: Email, Email Status
                                         30: LibraryR, Automatic Restart Table
                                         31: LibraryJ, Email Job Name Table
                                         32: LibraryX, Transform Work Queue
                                         99: Logoff
PF3-LOGOFF  PF1-HELP
```

This screen provides access to all JQP commands to control resources defined to JQP. Each item displayed on the screen can be secured and if secured does not appear on this screen. Security is based on the class assigned to the user when the user signs on to JQP. Reference section [3.2 JQPFDFCM – Command Table](#) for more detailed information on how to setup security.

- Item 1 Display Print Work Queue (Active), displays only the printers and destinations with reports selected by JQP to print
- Item 2 Display Destinations, displays all destinations defined to JQP.
- Item 3 Display VTAM Printers, displays all VTAM printers defined to JQP.
- Item 4 Display TCP/IP Printers, displays all TCP/IP printers defined to JQP.
- Item 5 Display VTAM Terminals, displays all VTAM terminals defined to JQP.
- Item 6 Display Users, displays all users defined to JQP.
- Item 7 Display Print Work Queue (All), displays all printers and destinations JQP selects reports for.
- Item 8 Display Print Transform Members, displays all print transform members defined to JQP.
- Item 12 Export Definitions, export the JQP definitions to a sequential file.
- Item 13 Import Definitions, import the JQP definitions from a sequential file.
- Item 16 Keys, PFkeys Currently Set, displays commands currently associated with the user’s PA/PF keys.
- Item 17 LibraryH, Printer Groups, displays all printer groups defined to JQP.
- Item 18 LibraryM, Logon Macro Groups, displays LOGON macro groups defined to JQP.
- Item 19 LibraryP, Terminals and Printers, displays all printers and terminals defined to JQP.
- Item 20 LibraryQ, Print Work Queue, displays all reports selected by JQP to print.
- Item 21 LibraryS, Destinations, displays all destinations defined to JQP.
- Item 22 LibraryT, JQP Active Tasks, displays a snapshot of currently active tasks in JQP.
- Item 23 LibraryU, Users, displays all users defined to JQP.
- Item 24 LibPX, Terminals and Printers Ext., displays all information associated with a physical device.
- Item 25 LibQX, Print Work Queue Extended, displays all information associated with a Print Work Queue entry.
- Item 26 Show, JQP Control Parameters, displays the JQP control variables and high water marks.
- Item 27 LibraryC, Commands and Security, displays the JQP commands and screen security.
- Item 28 LibraryF, LPD Control File, displays the LPD control file groups defined to JQP.
- Item 29 Email, Email Status, displays the status of the email notification feature.
- Item 30 Displays the JQP automatic restart table for failed reports.
- Item 31 Displays the JQP Email job name table to limit email notification.
- Item 32 LibraryX, Transform Work Queue, displays the MacKinney Print Transform (MPT) Transform Work Queue.

## 4.4.1 JQP Menu System – Print Work Queue

Entering the number one in the command line field on the JQPFDISL screen displays the JQPFIPQ screen (below). Only printers and destinations with reports selected to print display. Entering the “MENUQ \$ACTIVE” command also displays this screen.

Entering the number seven in the command line field on the JQPFDISL screen displays the JQPFIPQ screen (below), showing all printers and destinations JQP selects reports for. Entering the MENUQ command on any JQP screen also displays this screen.

To filter or limit the display to a single printer, enter a space and the printer name after the number seven on the JQPFDISL screen or enter a space and the printer name after the MENUQ command on any JQP screen. Use an “\*” in any position of the printers name to limit the display to only the printers matching the generic filter. When a filter is used to limit the display, the filter displays above the PRINTER column. For example to display all reports selected for printing on printers starting with DM, enter “1 DM\*” on the JQPFDISL screen or “MENUQ DM\*” on any JQP screen. **The FILTER command is supported for the option 7 “Print Work Queue” function. The FILTER command is NOT supported for the option 1 “Print Work Queue (Active)” function.**

```
JQPFIPQ      JES QUEUE FOR PRINTERS
====> _____

DM*
PRINTER  TYPE  STATUS  FORM  DESCRIPTION
DM001    TCP   IDLE    STD
  DEST:DM001    STAT:WAITING  WAIT:0
DM002    TCP   PRINTING STD
  DEST:DM002    STAT:PRINTING  WAIT:1
DM003    VTAM  IDLE    STD
  DEST:DM003    STAT:WAITING  WAIT:0
-- End of Display -- (Number of Items=3 )

Commands: 1=Start 2=Stop 3=Restart 5=Drain 6=Halt 7=Force P=Purge H=Hold L=Log
PF1-HELP PF3-END PF7-BACKWARD PF8-FORWARD PF2-REFRESH
```

JQP commands keyed in the Command Line field are processed first. Next, JQP commands equated to a PFkey, followed by Line Commands keyed next to a printer or destination are processed. Lastly, pressing enter refreshes the current page of print request. Note: When a Line Command is used to display another screen (i.e., Select), any line commands keyed after it are not processed.

## Line Commands

(S)elect To display more detail about the print request, type an “S” in the Line Command column next to the desired print request and press the ENTER key.

1(Start) To start a printer or destination, type a “1” in the Line Command column next to the desired printer or destination and press the ENTER key. When a printer is started, the destinations assigned to the printer are automatically started.

Printer Switch2(8) option displays a message on the System Console informing the operator the next report to print requires a different form. After the correct form has been mounted on the printer, use the "1" Start Destination line command to automatically issue the MOUNT command for the printer for a destination waiting on a form mount.

Note: After the "1" Start Destination line command is issued, all destinations for the printer have a status of STARTING. This is due to the timing of the screen task completing before the task on the printer is started.

2(Stop) To stop a printer, type a “2” in the Line Command column next to the desired printer and press the ENTER key. When a printer is stopped, the destinations assigned to the printer are automatically drained.

3(Restart) To restart a destination, type an “3” in the Line Command column next to the desired destination and press the Enter key. This function restarts printing a report in the JQP Print Work Queue with a status of HALTED or FAIL-xx. For reports printing on VTAM or TCP/IP “open/direct socket” printers, the report begins printing from the last successfully printed page when the HALT or failure was detected. For reports printing on TCP/IP LPD printers, the report begins printing from the first page. Reference the [RESTART](#) command to start printing from a specified JES DSID and line number.

4(Trace) To toggle the printer trace facility on and off, type a “4” in the Line Command column next to the desired printer and press the ENTER key. The tracing facility is provided primarily for the benefit of MacKinney Systems to facilitate debugging. The trace output is directed to the JQPLOG data set and records the data flow between JQP and the printer. **An "\*" appears between the PRINTER and TYPE fields to indicate the trace is active.**

5(Drain) To drain a destination, type a “5” in the Line Command column next to the desired destination and press the ENTER key. Drain stops JQP from selecting reports for this destination.

6(Halt) To halt a destination, type a “6” in the Line Command column next to the desired destination and press the ENTER key. Halt stops a report currently printing on a printer or prevents a report waiting to print from starting.

7(Force) To stop a printer with the force option, type a “7” in the Line Command column next to the desired printer and press the ENTER key. Any report currently printing is halted and the destinations assigned to the printer are automatically drained.

P(urge) To purge the FAIL-xx or HALTED report, type an “P” in the Line Command column next to the desired destination and press the ENTER key.

**For destinations with a disposition of delete, the report is purged from the JES output queue.  
For destinations with a disposition of hold, the report is held in the JES output queue.**

H(old) To hold the FAIL-xx or HALTED report, type an "H" in the Line Command column next to the desired destination and press the ENTER key. The report is held in the JES output queue.

L(og) To display the JQPLOG messages for the report currently printing, type an “L” in the Line Command column next to the desired destination and press the ENTER key.

E(dit) To edit the printer or destination definition, type an "E" in the Line Command column next to the desired printer or destination and press the ENTER key.

*Program Function Keys equated to JQP commands*

- PF1(Help)        Displays help information for the screen.  
Column level help is available. Place the cursor in any position under the column and press the HELP PFkey to display the help page with the information for the column. **Obtain the destination status information by placing the cursor on the first position of the destination status field and pressing the HELP PFkey.**
- PF3 (End)        Returns to the JQPFDISL screen.
- PF7 (Backward)   Displays the previous page of printers and destinations.
- PF8 (Forward)    Displays the next page of printers and destinations.
- PF2 (Refresh)    Rebuilds all pages of printer and destinations and displays the first page.

#### 4.4.1.1 JQP Menu System – Print Work Queue Select Printer

Entering an “S” in the Line Command column next to a printer displays the JQPFDIRY screen (below) showing all information about the printer.

```

JQPFDIRY      JES QUEUE FOR PRINTERS
====>

Printer ==> DM002
Type =====> TCP
Status ===> PRINTING
Form =====> STD

Printing Statistics
Total Jobs :          2
Total DDs  :          8
Total Pages:         10
Total Lines:         2,555

Printing Information
Name/ID/GROUP =====> DLM1A      JOB00083 1.1.1
Status =====> PRINTING          1,234,567 BYTES          987,654 SENT
Destination ID =====> DM001

Current DSID =====> 1
Line within DSID ==>          1,123
Copies Complete =====> 0 of 1
Pages printed =====>          4
Lines printed =====>          1,123
PJM pages printed ==>          1

PJM Status 09/24/2010 08:40:01
CODE=10023
DISPLAY="Processing job"
ONLINE=TRUE

Commands: 1=Start  2=Stop  7=Force
PF1-HELP  PF3-END

```

<u>Field</u>	<u>Explanation</u>
Printer	For VTAM printers, this is the printer's VTAM NETNAME. For TCP/IP printers, this is the name assigned to the printer.
Type	Printer type TCP            TCP/IP printer VTAM          The VTAM printer JQP has not been in session with yet. SNA           LUtype3 printer SCS           LUtype1 printer NSNA          Non-SNA printer FILE          Dataset printer
Status	Current status of the printer IDLE          indicates the printer is available for JQP to use STOPPED      indicates the printer is unavailable for JQP to use STOPPING     indicates a STOP command has been issued against the printer and is in the process of stopping PRINTING     indicates a report is currently printing on the printer I-REQ        indicates intervention is required for this SCS printer
Form	Currently mounted FORM on the printer.

### Printing Information

Name/ID/GROUP	Report's job name, job ID and group name in the JES output queue.
Status	Current status of the print request Reference <a href="#">Appendix C</a> for destination status information Note: For LPD type printers, the number bytes spooled and sent to the printer is displayed.
Destination ID	Destination ID assigned to this report.
Current DSID	JES DSID of the report currently printing
Line within DSID	Line number within the DSID currently printing
Copies Complete	The first number indicates the number of complete copies already printed. The second number indicates the number of copies of the current data set to print.
Pages Printed	Current number of pages printed for the report.
Lines Printed	Current number of lines printed for the report.
PJL Pages Printed	For printers supporting PJL, the total number of pages reaching the output tray. For printers not supporting PJL, the literal N/A is displayed.

### Printing Statistics

Total Jobs	Total number of jobs printed by this printer since JQP started.
Total DDs	Total number of data sets within the jobs printed since JQP started.
Total Pages	Total number of pages printed by this printer since JQP started.
Total Lines	Total number of lines printed by this printer since JQP started.

### PJL Status

Date and Time	The date and time the last PJL STATUS command was issued or the date and time the last UTIMED STATUS response was received from the printer.
Status Lines	One to six lines of status information returned from the printer from the last PJL STATUS command or UTIMED STATUS response received from the printer.

## **Commands**

- 1(Start) To start the printer, type a "1" in the Command Line and press the ENTER Key. All destinations assigned to this printer automatically start.
- 2(Stop) To stop the printer, type a "2" in the Command Line and press the ENTER key. All destinations assigned to this printer automatically drain.
- 7(Force) To stop the printer with the force option, type a "7" in the Command Line and press the ENTER key. Any report currently printing is stopped and all destinations assigned to this printer are drained.
- 9(PJL) To issue the PJL INFO command to the printer, type a "9" in the Command Line field, followed by a space and optional category listed below and press the ENTER key. Category STATUS is the default. The PJL INFO command requests information from the printer.
- |           |  |
|-----------|--|
| ID        | Provides the printer model number, such as "LaserJet 4".   |
| CONFIG    | Provides configuration information, such as how many and what paper sizes are available in this printer.                         |
| FILESYS   | Returns PJL file system information.   |
| MEMORY    | Identifies amount of memory available.   |
| PAGECOUNT | Returns the number of pages printed by the print engine.   |
| STATUS    | Provides the current printer status.   |
| VARIABLES | Lists environmental and printer language-dependent variables, the possible variable values, and the current variable settings.   |
| USTATUS   | Lists the unsolicited status variables provided by the printer, the possible variable values, and the current variable settings. |
| ALL       | Performs all the PJL INFO commands listed above.   |

## **Program Function Keys equated to JQP commands**

- PF1(Help) Displays help information for the screen.  
Field level help is available. Place the cursor in any position within the field and press the HELP PFkey to display the help page with the information for the field.
- PF3 (End) Returns to the JQPFDPQ screen.

### 4.4.1.2 JQP Menu System – Print Work Queue Select Destination

Entering an “S” in the Line Command column next to a destination displays the JQPFIXQ screen (below) showing all information about the destination.

```

JQPFIXQ      JES QUEUE FOR PRINTERS
====>
-----
  DEST  PRINTER  CLASS  FORM  MAX LINES  DEST SEL  XWTR SEL  JOBNAME
DM001  DM001    Q      STD      10,000  DM001
PRINTING PRINTING <==Status  Wait: 1      Total Lines: 10,000

  JOB NAME  JOB ID  STATUS  PRI C  DESTID  FORM  FCB  TOTAL LINES  XWRITER
-- PAYROLL  JOB12345 PRINTING 144 Q  DM001  STD  ****  1,000
-- INVOICE  JOB45678          144 Q  DM001  STD  ****  9,500

Commands: P=Purge  H=Hold  A=Release  S=Select
PF1-HELP  PF3-END  PF7-BACKWARD  PF8-FORWARD
  
```

<u>Field</u>	<u>Explanation</u>
Dest	Destination ID defined to JQP.
Destination Status	Current status of the destination. This status is displayed under the destination name. Reference <a href="#">Appendix C</a> for destination status information.
Printer	For VTAM printers, this is the printer’s VTAM NETNAME. For TCP/IP printers this is the name assigned to the printer.
Printer Status	Current status of the printer. This status is displayed under the printer name. IDLE indicates the printer is available for JQP to use STOPPED indicates the printer is unavailable for JQP to use STOPPING indicates a STOP command has been issued against the printer and is in the process of stopping PRINTING indicates a report is currently printing on the printer I-REQ indicates intervention required for this SCS printer
Class	One to eight classes used in report selection.
Form	The form currently mounted on the printer.
Max Lines	Maximum number of print lines a report can have for selection.
DEST SEL	Destination name used for report selection.
XWTR SEL	XWRITER name used for report selection.
JOBNAME	Job Name used for report selection.

### ***Commands***

- 1(Start) To start the destination, type a “1” in the Command Line and press the ENTER Key.
- 3(Restart) To restart the halted or failed destination, type a “3” in the Command Line and press the ENTER key.
- 5(Drain) To drain the destination, type a “5” in the Command Line and press the ENTER key.
- 6(Halt) To halt the destination, type a “6” in the Command Line and press the ENTER key.

### ***Line Commands***

- P(Purge) To purge the report from the system spool, type a “P” in the Line Column next to the report to purge and press the ENTER Key.
- H(Hold) To hold the report in the system spool, type an “H” in the Line Column next to the report to hold and press the ENTER Key.
- A(Release) To release the report in the system spool, type an “A” in the Line Column next to the report to release and press the ENTER Key.
- S(Select) To display more information for the report in the system spool, type an “S” in the Line Column next to the report to display and press the ENTER Key.

### ***Program Function Keys equated to JQP commands***

- PF1(Help) Displays help information for the screen.  
Column level help is available. Place the cursor in any position under the column and press the HELP PFkey to display the help page with the information for the column.
- PF3 (End) Returns to the JQFDIPQ screen.
- PF7(Backward) Returns the previous page of reports eligible for this destination.
- PF8(Forward) Returns the next page of reports eligible for this destination.

#### 4.4.1.2.1 JQP Menu System – Print Work Queue Report Information

Entering an “S” in the Line Command column next to a report displays the JQPFDISQ screen (below) showing some information about the report.

```

JQPFDISQ          JES QUEUE FOR PRINTERS
====> _____

JOBNAME  JOBID          SYSOUT IDENTIFIER
INVOICE  JOB45678  2.1.1

Class =====> Q
Form =====> STD
Destination =====> DM001
Xwriter Name =====>
FCB =====> ****
Priority =====> 144

Commands:                                     Press ENTER to update
PF1-HELP  PF3-END
  
```

<u>Field</u>	<u>Explanation</u>
JOBNAME	Report's Job Name
JOBID	Report's Job ID.
SYSOUT IDENTIFIER	Report's Group Name.
Class	Report's Class. To change the report's class, key a valid class and press the ENTER key. Valid classes are 0 through 9 and A through Z.
Form	Report's Form. To change the report's form, key a new form ID and press the ENTER key. The form can be one to eight characters.
Destination	Report's Destination. To change the report's destination, key a new destination and press the ENTER key.
Xwriter Name	Report's writer name. To change the report's writer name, key a new writer name and press the ENTER key.
FCB	Report's FCB. To change the report's FCB name, key a new FCB and press the ENTER key.
Priority	Report's Priority. To change the report's priority, key a new priority and press the ENTER key.

#### ***Program Function Keys equated to JQP commands***

PF1(Help)	Displays help information for the screen. Column level and field level help is available. Place the cursor in any position under the column or within the field and press the HELP PFkey to display the help page with the information for the column or field.
PF3 (End)	Returns to the JQPFDISQ screen.

### 4.4.1.3 JQP Menu System – Print Work Queue JQPLOG Messages

Entering an “L” in the Line Command column next to a destination displays the JQFDIPL screen (below) showing all the JQPLOG messages for the current printing task.

```
JQFDIPL          JES QUEUE FOR PRINTERS
====>

PRT: LPD1      DST: LPD1      JOB: JQP24      ,STC08253,2.1.1
-----
-- Top of Display --
JQPRPRIP01 ** PRINTING ON PRINTER LPD1      STARTED,          46,456 LINES
              JOB=JQP24      ID=STC08253 GRP=2.1.1
              DEST=LPD1      USER=JQP      XWTR=
JQPRPRIP10 ** REPORT SPOOLING TO DASD IS STARTING **
JQPRDYNA02 ** DD=JQP00001 MACS.JQP00001.LPD1.JQP24.STC08253
JQPRPRSL01 ** MODULE "HPIPVP12" NOT FOUND **
JQPRPRIP10 ** REPORT SPOOLING TO DASD IS COMPLETE **
JQPRPRIP11 ** CONNECTING TO HOST:192.168.1.105  PORT:515  **
-- END OF DISPLAY --

COMMANDS :
PF1-HELP  PF3-END  PF7-BACKWARD  PF8-FORWARD  PF10-LEFT  PF11-RIGHT
```

<u>Field</u>	<u>Explanation</u>
PRT:	For VTAM printers, this is the printer's VTAM NETNAME. For TCP/IP printers, this is the name assigned to the printer.
DST:	Destination ID defined to JQP.
JOB	The job name, job ID and group name for the report currently printing.

#### ***Program Function Keys equated to JQP commands***

PF1(Help)	Displays help information for the screen. Field level help is available. Place the cursor in any position within field and press the HELP PFkey to display the help page with the information for the field.
PF3 (End)	Returns to the JQFDIPQ screen.
PF7 (Backward)	Displays the previous page of JQPLOG messages.
PF8 (Forward)	Displays the next page of JQPLOG messages.
PF10(Left)	Displays the JQPLOG date, time and task number information for the message.
PF11(Right)	Displays the JQPLOG message without the date, time and task number information.

## 4.4.2 JQP Menu System – Destinations

Entering the number two in the command line field on the JQPFDISL screen displays the JQPFIDDS screen (below) showing all destinations defined to JQP. Entering the “MENUS” command on any JQP screen also displays this screen.

To filter or limit the display to a single destination, enter a space and the destination name after the number two on the JQPFDISL screen or enter a space and the destination name after the MENUS command on any JQP screen. Use an “\*” in any position of the destination name to limit the display to only the destinations matching the generic filter. When a filter limits the display, the filter is displayed above the DEST column. For example, to display all destinations starting with IP, enter “2 IP\*” on the JQPFDISL screen or “MENUS IP\*” on any JQP screen. **The FILTER command is supported for this function.**

```

JQPFIDDS          JES QUEUE FOR PRINTERS
====>

```

IP*	DEST	STATUS	DESCRIPTION	PRINTER	WIDTH	MAX LINES	PRINTER SETUP
—	IP01	WAITING		IP01	255	10,000	HP2L
—	IP02	WAITING		IP02	132	10,000	HP2L
—	IP03	WAITING		IP03	132	10,000	HP2L
—	IP04	WAITING		IP04	132	10,000	HP2L
—	IP05	WAITING		IP05	132	10,000	HP2L
—	IP05P	WAITING		IP05	132	10,000	HP2L
—	IP05X	WAITING		IP05	132	10,000	HP2L
—	IP05Z	WAITING		IP05	132	10,000	HP2L
—	IP06	WAITING		IP06	132	10,000	HP2L
—	IP06A	WAITING		IP06	132	10,000	HP2L
—	IP06P	WAITING		IP06	132	10,000	HP2L
—	IP17	WAITING		IP17	132	10,000	HP2L
-- End of Display -- (Number of Items=12 )							

```

Commands: S=Select  D=Delete  A=Add  1=Start  3=Restart  5=Drain  6=Halt
PF1-HELP  PF3-END    PF7-BACKWARD PF8-FORWARD PF2-REFRESH

```

JQP commands keyed in the Command Line field are processed first. Next, JQP commands equated to a PFkey, followed by Line Commands keyed next to a destination are processed. Lastly, pressing enter refreshes the current page of destinations. Note: When using a Line Command to display another screen (i.e., Select), any line commands keyed after it are not processed.

### Line Commands

- (S)elect To display more detail about the destination, type an “S” in the Line Command column next to the desired destination and press the ENTER key.
- (D)elete To delete a destination, type a “D” in the Line Command column next to the desired destination and press the ENTER key.
- (A)dd To add a destination, type an “A” in the Line Command column next to any destination and press the ENTER key. The new destination is modeled after the chosen destination.
- 1(Start) To start a destination, type a “1” in the Line Command column next to any destination and press the ENTER key.
- 3(Restart) To restart a failed and halted destination, type a “3” in the Line Command column next to any destination and press the ENTER key.
- 5(Drain) To drain a destination, type a “5” in the Line Command column next to any destination and press the ENTER key.
- 6(Halt) To halt a destination, type a “6” in the Line Command column next to any destination and press the ENTER key.

***Program Function Keys equated to JQP commands***

PF1(Help)	Displays help information for the screen. Column level help is available. Place the cursor in any position under the column and press the HELP PFkey to display the help page with the information for the column.
PF3 (End)	Returns to the JQPFDISL screen.
PF7 (Backward)	Displays the previous page of destinations.
PF8 (Forward)	Displays the next page of destinations.
PF2 (Refresh)	Rebuilds all pages of destinations and displays the first page.

### 4.4.2.1 JQP Menu System – Destinations Select

Entering an “S” in the Line Command column next to a destination displays the screen (below) showing all information about the destination.

```

JQPFDIXS      JES QUEUE FOR PRINTERS                               Mode: Update
====>
-----
Destination =====> IP01          Dest Selection =====> IP01
Printer Name =====> IP01          XWTR Selection =====>
Status =====> WAITING             Class Selection =====>
Translate Table => JQPFTHP1          Lines Selection =====> 00010000
Width =====> 00255                JobName Selection ==>
Description =====>
Separator Page ==> 1                  Error Action =====> 1
Form Feed =====> N                 Istatus =====> A
Setup Options ==>                      Default FCB =====>
Option Flags =====>
-----
Line Routine(s) => 00 00 00 00 00 00 00 00
Raw =====> 0
CPI =====> 00
Disposition =====>
Requeue Options => 000000
DBCS Option(s) ==> N K OE OF
-----
Commands: 1=Start  5=Drain  6=Halt
PF1-HELP  PF3-END  PF2-DISPLAY
Press ENTER to update
  
```

<u>Field</u>	<u>Explanation</u>
Destination	The destination ID defined to JQP. This field is required.
Printer Name	For VTAM printers, this is the printer’s VTAM NETNAME. For TCP/IP printers, this is the name assigned to the printer. To change the printer name, over-key the current value and press the ENTER key. This field is required. <b>Note: The destination’s status must be DRAINED before changing the printer named.</b> <b>Note: This field corresponds to the VTAM or TCP/IP printer’s Printer Name field.</b> <b>Note: After changing the printer name, manually start the destination.</b>
Dest Selection	To create a data set of the report, specify \$FILE. The data set format is variable blocked (VB), logical record length is 32,756 and block size is 32,760. Reference the Control Table parameter <a href="#">HLQ</a> for the file name format created for a report printed to a z/OS data set. Destination name used for report selection. All reports in the JES output queue with this destination use these parameters. The destination selection name may begin with A through Z, \$, #, or @. This field is optional. <b>Note: When "Dest Selection" and "XWTR Selection" fields are both blank when adding a new destination, the DESTID is placed into the "Dest Selection" field. Clear the "Dest Selection" field later during update if necessary.</b>
XWTR Selection	XWRITER name used for report selection. All reports in the JES output queue with this XWRITER use these parameters. Specify *BLANK to select the report when the XWRITER name is blank. This field is optional.
Class Selection	Specify one to eight JES Output Queue classes this destination select reports for. When this field is blank, the CLASS parameter in the Control Table (JQPFDICT) determines the classes used.

Lines Selection	Specify the maximum number of print lines a report may have for this destination to select it for printing. Specify zero for no limit. To change the maximum print lines limit, over-key the current value and press the ENTER key
JobName Select	Specify the Job Name for report selection. Wildcards are supported. Valid wildcards are "*" for multiple characters and "?" for a single character. To change the Job Name selection, over-key the current value and press the ENTER key
Status	Current status of the print request. Reference <a href="#">Appendix C</a> for destination status information.
Translate Table	<b>Use translate tables JQPFTTP1, JQPFTTP2 and JQPFTTP3 with EBCDIC data streams sent to VTAM printers.</b> <b>Use translate tables JQPFTTP4, JQPFTTP5 and JQPFTTP6 with ASCII data streams sent to TCP/IP printers.</b> <b>Translate table JQPFTTP0 omits print data translation.</b> To change the translate table, over-key the current value and press the ENTER key.
Description	Optional one to thirty-two character description for the destination.
Separator Page	Separator page option for this destination. To change the separator page option, over-key the current value and press the ENTER key. 0=No               do NOT print a separator page 1=Yes             print a separator page before and after the report 2=LPD            use the separator page provided by the LPD server 3=Yes2           print a separator page before the report only 4=Yes3           print a separator page for each data set within the report
Error Action	Error Action option for this destination. To change the error action option, over-key the current value and press the ENTER key. 1=Fail            indicates to place the destination in a FAIL-xx status when a printing error occurs. The report being printed is held by JQP. 2=Drain           indicates to place the destination in an EDRAINED status when a printing error occurs. The report being printed is released by JQP. Blank             indicates the destination status is determined by the ERRACT parameter in the JQPFDCT table.
Form Feed	Form eject option for this destination. To change the forms feed option, over-key the current value and press the ENTER key. N=None           do NOT issue any additional form feeds B=Before         issue an additional forms feed before the report starts printing. A=After          issue an additional forms feed after the report stops printing. C=Both           issue an additional forms feed before and after the report start and stops printing. S=Special        For reports starting with a forms skip, the first forms skip is removed. In some cases, this eliminates an extra blank page before this report begins printing. T=Special2       For reports starting with a forms skip, the first forms skip is removed and JQP issues an additional forms feed after the report stops printing. In some cases, this eliminates an extra blank page before this report begins printing.
Istatus	Status of the destination when JQP starts. (A)ctive          the destination status is WAITING when the printer is started. (I)nactive         the destination status is DRAINED when the printer is started. Note: To start a destination with Istatus=Inactive, use the JQP command START D,destination.

Width	The maximum number of characters printed before automatically performing a line eject. Specifying a number between 80 and 8192 allows JQP to truncate lines longer than the printer can print or specifying zero allows the print lines to wrap. To change the width, over-key the current value and press the ENTER key.
Default FCB	Specifies the default FCB image to use for reports not specifying an FCB. JQP uses this FCB for carriage control only. Specify an "*" to bypass FCB processing.
Setup Options	<p>First field, load module name containing the setup codes sent to the printer before printing starts.</p> <p>HPxxxxxx indicates the setup module contains PCL codes. PCL codes are NOT translated by the printer translate table before being sent to the printer.</p> <p>PSxxxxxx indicates the setup module contains postscript codes. Postscript codes are translated by the printer translate table before being sent to the printer.</p> <p>XExxxxxx indicates the setup module contains XEROX codes. XEROX codes are NOT translated by the printer translate table before being sent to the printer.</p> <p><b>Note: Any setup module name not beginning with HP, PS or XE is treated like a HP module containing PCL codes</b></p> <p>FCB indicates SCS control codes are used to control the setup of the printer. The SCS control codes Lines Per Inch (LPI) and Maximum Lines Per Page (MPL) are created from the FCB information in SYS1.IMAGELIB. The SCS control code Maximum Print Position (MPP) is set to the value of the WIDTH parameter and Characters Per Inch (CPI) is set to the value of the CPI parameter. To issue proper forms alignment, specify Separator Page equal yes or Form Feed equal AFTER.</p> <p>FCBxxxx (where xxxx is the default FCB image to use when the report does not specify one) same as FCB above. To change the setup module, over-key the current value and press the ENTER key.</p> <p>Second field, reset command sent to printer after printing has completed.</p> <p>Y=Yes send a reset command to the printer.</p> <p>N=No do not send a reset command to the printer.</p> <p>Third field, setup selection option.</p> <p>Blank=DEFAULT use the system setup selection parameter in the Control Table to determine the field to use as the setup module.</p> <p>0=NONE do NOT use any report fields as the setup module.</p> <p>1=XWTR use the reports XWRITER as the setup module.</p> <p>2=DEST use the reports destination as the setup module.</p> <p>3=FORM use the reports form-id as the setup module.</p> <p>4=FCB use the reports FCB as the setup module. Reference the Control Table parameter <a href="#">FLAGA</a>, 7<sup>th</sup> parameter.</p> <p>5=FLASH use the reports FLASH as the setup module.</p> <p>6=EXIT call the exit JQPFPRSX for the setup module name.</p> <p>7=FORMDEF use the reports FORMDEF as the setup module.</p> <p>8=PAGEDEF use the reports PAGEDEF as the setup module.</p>

Option Flag(s)

Five sets of eight special processing flags. Specify "1" to enable the flag, "0" to disable the flag or blank to use the destination flag settings in the Control Table (JQPFDCT) parameters DFLAGS (set one), DFLAG2 (set two), DFLAG3 (set three), DFLAG4 (set four) or DFLAG5 (set five). The flags are numbered left to right.

First set of processing flags

- Flag 1: Supports PCL commands within the print line.
- Flag 2: Supports the UEL command within the print line.
- Flag 3: Supports Lexmark Barcode commands within the print line.
- Flag 4: Unused
- Flag 5: Adds blank line for ASA reports with Feed=Special.  
Note: Requires the destination table option FEED=SPECIAL.
- Flag 6: Removes multiple "Skip to Channel 1 Immediate" commands.
- Flag 7: Removes blank lines at the end of the page.  
Note: For Solimar printers (RAW=7), line routine 05 is required.
- Flag 8: Allows both ASA and MCC carriage control in the same print data set.

Second set of processing flags

- Flag 1: Creates a GDG data set for the \$FILE printer.
- Flag 2: Truncates trailing spaces and nulls.
- Flag 3: Ignores the JES copies parameter and prints one copy only.
- Flag 4: Bypasses print line truncation.
- Flag 5: Calls exit program JQPFEX01.
- Flag 6: For printer \$FILE, submits JCL after the report has successfully printed.
- Flag 7: For SCS printers, sends Form Feed prior to Set Vertical Format.
- Flag 8: For destinations using RAW=1, JQP prints the separator page using ASCII translate table. For TCP/IP printers only.

Third set of processing flags

- Flag 1: Submits the following console command after each report is successfully printed: \$TO J(*jobid*), OUTGRP=*grp*, NDISP=HOLD
- Flag 2: Calls exit program JQPFEX04.
- Flag 3: Removes blank lines at the top of the page.
- Flag 4: Bypasses check for RAW=7 or RAW=9 to insure each data set starts with a forms feed.
- Flag 5: Unused
- Flag 6: Adds New Line Sequence at End of Report for reports without carriage control.
- Flag 7: Eliminates Cursor Return command for "write without spacing".
- Flag 8: Forces the JQP trace graphic presentation to display as ASCII.

Fourth set of processing flags

- Flag 1 to 8: Unused

Fifth set of processing flags

- Flag 1 to 8: Unused

Line Routine(s)	<p>One to eight default line routines to handle special print line processing. Place line routines in any order. They are processed from left to right. Omit or specify "00" for all eight routines to use the routine setting in the Control Table (JQPFDFCT).</p> <p>01 No operation routine</p> <p>02 Each print line is checked for the character string x'5FC5' in columns one and two. When present, all x'5F' characters are translated to x'27'. The x'27' character is translated to x'1B' during normal EBCDIC to ASCII processing.</p> <p>03 Special customer request to remove the ASCII space x'20' or EBCDIC space x'40' after the Shift-Out character x'0E' and before the Shift-In character x'0F'.</p> <p>04 Optional feature; Line exit to look for the literal "#VPS#HPC HEX - " in column one and translate the following two hexadecimal bytes to a single binary byte.  Note: Translation terminates at the end of the line or when a space character is found. All characters after the space character are bypassed.  Note: In the event translation fails, the un-translated line prints.  Note: Carriage control processing is bypassed for lines with a carriage control character of "Z".  Example: Line "#VPS#HPC HEX - 1B45" translates to x'1B45'.</p> <p>05 Truncates trailing spaces before the JQP raw routines process the print record.</p> <p>06 Special customer request to inverse the print line and not truncate the print line. The print line must not exceed 256 bytes.</p> <p>07 Translates Machine Carriage Control (MCC) to ANSI Carriage Control (ASA).  Note: Requires the 8th destination "Option Flag" = YES.</p> <p>08 Removes the SCS transparent character x'35' and the following length byte from the print line.</p> <p>09 Checks for the SCS transparent character x'35' in column one and sends the transparent data to the printer without translation or truncation.</p> <p>10 Scans for the SCS transparent character x'35' in the print line. Following the x'35' is the length byte. The number of bytes (immediately following the length byte) represented by the value in the length byte are moved to the output buffer ASIS. All other bytes in the print line are translated using the Translate table specified in the destination definition.</p> <p>11 For lines with Write Without Spacing carriage control, this line routine compares the current line with the previous line and BOLD any matching characters using the PCL commands.</p> <p>12 Special custom line routine to correct PCL strings.</p> <p>13 For lines with a channel one skip, the previous line is scanned for a PCL Paper Source command in EBCDIC. When located, the channel one skip is suppressed</p>
-----------------	---

Raw	Print line formatting option.	
	0=No	indicates printer control characters (i.e., new line or forms feed) are inserted in the print data stream.
	1=Yes	indicates no printer control characters are inserted in the print data stream.
	2=YS2	indicates no printer control characters are inserted in the print data stream. Print data is prefixed with a four byte binary length field and a one byte Channel Command code. The length field includes the length of the data only.
	3=YS3	indicates no printer control characters are inserted in the print data stream. Print data is prefixed with a four byte binary length field and a one byte Channel Command code. The length field contains the combined length of the print data, four byte length field and the one byte Channel Command code.
	4=YS4	indicates no printer control characters are inserted in the print data stream. Print data is prefixed with a two byte binary length field and a one byte Channel Command code. The length field contains the combined length of the print data and the one byte Channel Command code. In addition, each JES data set begins with a forms feed and the print line is truncated to the value specified in the destination WIDTH parameter. This option was added for Rochester Software Associates (RSA) type printers.
	5=YS5	indicates trailing spaces are truncated before the data is sent to the printer. Additionally, channel one skips are processed. Print data contains PCL codes to separate the print lines.
	6=YS6	produces fixed length records equal to the destination WIDTH parameter (up to 256 bytes). Print line includes the carriage control byte. For the \$FILE printer, produces a fixed block file for reports printed to a data set. Record length equals the destination WIDTH parameter. Record length must be 80 through 256. Block size is computed on 8k. For reports generated with carriage control, the data set contains the carriage control.
	7=YS7	indicates no printer control characters are inserted in the print data stream. Print data is prefixed with a four byte RDW field and a one byte Channel Command code. The length field contains the combined length of the print data, four byte RDW field and the one byte Channel Command code. In addition, ASA command codes are converted to machine command codes (MCC). This option was added for Solimar Systems, Inc. type printers. This option allows passing print directly to the Solimar printers without going through the Solimar Blocker Emulation Module.
	8=YS8	indicates no carriage control processing. The data in the print line is prefixed with the carriage control and suffixed with the New Line Sequence defined for the printer.
	9=YS9	indicates no printer control characters are inserted in the print data stream. Print data is prefixed with a two byte binary length and a one byte Channel Command code. The length field contains the combined length of the data line and one byte Channel Command code. In addition, ASA command codes are converted to Machine Command Codes (MCC). This option was added for LCDS type printers.
	A=YSA	Sends the data in the print line to the printer with a four byte BDW field, four byte RDW field and a one byte Channel Command code. The BDW length field contains the combined length of the data line, one byte Channel Command code, four byte BDW field and four byte RDW field. The RDW length field contains the combined length for the data line, one byte Channel Command code and four byte RDW field.

Raw Print line formatting option (continued)

B=YSB Sends the data in the print line to the printer with a four byte RDW field and a one byte Channel Command code. The length field contains the combined length of the data line, one byte Channel Command code and four byte RDW field.

**Note: When using one of the RAW options, it is recommended Translate Table equal JQPFFTP0 and Width equal zero.**

To change the Raw option, over-key the current value and press the ENTER key.

CPI

SCS printer types only, sets the Characters Per Inch (CPI) using SCS control codes. This parameter is only used when the Setup parameter is FCB or FCBxxxx. To change the CPI value, over-key the current value and press the ENTER key.

Disposition

Report's disposition after printing is successful.

Blank the disposition is determined by the DISP parameter in the Control Table JQPFDFCT.

0=Delete the report is deleted after printing is complete.

1=Hold the report is placed on hold after printing is complete.

2=Retain alters the report's writer name, class, destination and/or form and retains the report in the JES Output queue in an active state.

Disposition Retain Parameters

1st parameter indicates the new writer name for the report. Specify \*BLANK to clear the writer name.

2nd parameter indicates the new class for the report. Valid classes are A through Z and 0 through 9.

3rd parameter indicates the new destination for the report. Specify LOCAL to clear the destination name.

4th parameter indicates the new form for the report. Specify STD to clear the form name.

5th parameter indicates the state of the report.

0=Active The report state is active.

1=HOLD The report state is system hold.

Note: Leave any retain parameter blank to use the retain parameter from the DISP parameter in the Control Table JQPFDFCT.

Note: Specify "\*" in any retain parameter to indicate no change for this parameter.

**To prevent a report selection loop, JQP places the report in a HOLD status in the event the retain parameters allow report reselection by the same destination**

Note: When APAR OW45495 is applied and DISP=DELETE, the final disposition of a SYSOUT data set is based upon the JCL OUTDISP parameter. For OUTDISP=WRITE, the SYSOUT data set is deleted. For OUTDISP=KEEP, the SYSOUT data set final disposition is LEAVE. The report is moved from the JES Output queue to the JES Held queue. JQP messages always display the final disposition of DELETE.

## Requeue Options

Report's disposition when the line limit is exceeded.

**Line Limit** Specifies the line limit for this destination. Any report exceeding this limit is re-queued. Specify zero to bypass the re-queue feature.

### Disposition

**Blank** determines the disposition by the REQUEUE parameter in the Control Table JQPFDCT.

**0=Delete** deletes the report after printing is complete.

**1=Hold** places the report on hold after printing is complete.

**2=Retain** alters the report's writer name, class, destination and/or form and retains the report in the JES Output queue in an active state.

### Disposition Retain Parameters

**1st parameter** indicates the new writer name for the report. Specify \*BLANK to clear the writer name.

**2nd parameter** indicates the new class for the report. Valid classes are A through Z and 0 through 9.

**3rd parameter** indicates the new destination for the report. Specify LOCAL to clear the destination name.

**4th parameter** indicates the new form for the report. Specify STD to clear the form name.

**5th parameter** indicates the state of the report.

**0=Active** The report state is active.

**1=HOLD** The report state is system hold.

Note: Leave any re-queue parameter blank to use the REQUEUE parameter values from the Control Table JQPFDCT.

Note: Specify "\*" in any re-queue parameter to indicate no change for this parameter.

Note: Re-queue feature requires the destination "Lines Selection" parameter be zero.

## DBCS Option(s)

Specifies the Double-Byte Character Set (DBCS) options.

First parameter indicates whether the print data contains double-byte character set data.

**NONE** the print data contains no DBCS codes

**PURE** the print data contains all DBCS codes

**MIXED** the print data contains both single-byte character set and DBCS codes.

Second parameter is the load module containing the translation table for the DBCS codes.

The next three parameters are used for mixed DBCS print data.

Third parameter indicates the disposition of the Shift-out (SO) and Shift-in (SI) codes in the print data.

**DELETE** removes the SO/SI codes from the print data

**KEEP** leaves the SO/SI codes in the print data

**REPLACE** changes the SO/SI codes with the 4<sup>th</sup> and 5<sup>th</sup> parameters.

Fourth parameter is the 2, 4 or 6 byte hexadecimal code replacing the Shift-out (SO) character in the print data. Default is x'0E'.

Fifth parameter is the 2, 4 or 6 byte hexadecimal code replacing the Shift-in (SI) character in the print data. Default is x'0F'.

To change the DBCS options, over-key the current value and press the ENTER key.

### **Commands**

1(Start) To start a destination, type a "1" in the Command Line field and press the ENTER key.

5(Drain) To drain a destination, type a "5" in the Command Line field and press the ENTER key.

6(Halt) To halt a destination, type a "6" in the Command Line field and press the ENTER key.

### **Program Function Keys equated to JQP commands**

PF1(Help) Displays help information for the screen.  
Field level help is available. Place the cursor in any position within the field and press the HELP PFkey to display the field level help page.

PF2(Display/Update) Toggles between "Display Mode" and "Update Mode".  
**For "Display Mode", any default fields are updated with the default system values and displayed in yellow.**

PF3 (End) Ignores any changes made to the destination and returns to the JQPFIDDS screen.

ENTER Validates and updates the changes made to the destination

#### 4.4.2.2 JQP Menu System – Destinations Delete

Entering a “D” in the Line Command column next to a destination displays the screen (below) showing the delete confirmation message for the destination.

```

JQPFDI XS      JES QUEUE FOR PRINTERS                               Mode: Delete
====>
JQPGMENU02 ** PRESS ENTER TO CONFIRM DELETE, PF3 TO CANCEL **

Destination =====> IP01          Dest Selection =====> IP01
Printer Name =====> IP01          XWTR Selection =====>
Status =====> DRAINED             Class Selection =====>
Translate Table => JQPF TTP1         Lines Selection =====> 00010000
Width =====> 00255                JobName Selection ==>
Description =====>
Separator Page ==> 1                 Error Action =====> 1
Form Feed =====> N                 Istatus =====> A
Setup Options ==>                    Y   Default FCB =====>
Option Flags =====>                :   |   :   |   :
:                                     :   |   :   |   :
Line Routine(s) => 00 00 00 00 00 00 00 00
Raw =====> 0
CPI =====> 00
Disposition =====>
Requeue Options =>
DBCS Option(s) ==> N                 K 0E   0F

Commands: 1=Start  5=Drain  6=Halt           Press ENTER to update
PF1-HELP  PF3-END  PF2-DISPLAY

```

#### *Program Function Keys equated to JQP commands*

- PF1(Help)        Displays help information for the screen.  
Field level help is available. Place the cursor in any position within the field and press the HELP PFkey to display the field level help page.
- PF3 (Cancel)    Cancels the delete request and returns to the JQPF DIDS screen.
- ENTER            Confirms the delete request, deletes the destination entry and returns to the JQPF DIDS screen.

### 4.4.2.3 JQP Menu System – Destinations Add

Entering an “A” in the Line Command column next to a destination displays the JQPFDIRS screen (below) showing all information for the new destination.

```

JQPFDIRS          JES QUEUE FOR PRINTERS                      Mode: Add
====> _____

Destination =====> _____      Dest Selection =====> _____
Printer Name =====> _____      XWTR Selection =====> _____
Status =====> _____            Class Selection =====> _____
Translate Table => JQPF1TP1            Lines Selection =====> 00010000
Width =====> 00132                  JobName Selection ==> _____
Description =====> _____
Separator Page ==> 0                    Error Action =====> 1
Form Feed =====> A                   Istatus =====> A
Setup Options ==> _____ Y _____ Default FCB =====> _____
Option Flags =====> _____ : _____ | _____ : _____ | _____ : _____
: _____ : _____ | _____ : _____ | _____ : _____
Line Routine(s) => 00 00 00 00 00 00 00 00
Raw =====> 0
CPI =====> 00
Disposition =====> _____
Requeue Options => 000000 - _____ - _____ - _____ - _____
DBCS Option(s) ==> N _____ K 0E _____ 0F _____

Commands: 1=Start  5=Drain  6=Halt                      Press ENTER to update
PF1-HELP  PF3-END  PF2-DISPLAY

```

For a description for each field on the screen above, reference section [4.4.2.1 JQP Menu System – Destinations Select](#).

#### ***Program Function Keys equated to JQP commands***

- PF1(Help)        Displays help information for the screen.  
Field level help is available. Place the cursor in any position within the field and press the HELP PFkey to display the field level help page.
- PF3 (End)        Ignores any changes made to the destination and returns to the JQPFDIRS screen.
- ENTER            Validates and adds the destination then redisplay the JQPFDIRS screen ready to add the next destination. When there are no more destinations to add, press the PF3(END) key to return to the JQPFDIRS screen.

### 4.4.3 JQP Menu System – VTAM Printers

Entering the number three in the command line field on the JQPFDISL screen displays the JQPFDIVP screen (below) showing all VTAM printers defined to JQP. Entering “MENUV” on any JQP screen also displays this screen.

To filter or limit the display to a single VTAM printer, enter a space and the VTAM printer name after the number three on the JQPFDISL screen or enter a space and the VTAM printer name after the MENUV command on any JQP screen. Use an “\*” in any position of the printer’s name to limit the display to only the printers matching the generic filter. Use a printer group name (starting with the character “@”) to display all VTAM printers assigned to the group. When using a filter to limit the display, the filter is displayed above the PRINTER column. For example, to display all VTAM printers beginning with P0, enter “3 P0\*” on the JQPFDISL screen or “MENUV P0\*” on any JQP screen. **The FILTER command is supported for this function.**

```
JQPFDIVP      JES QUEUE FOR PRINTERS
====> _____

  P0*
  PRINTER    STATUS      DESCRIPTION      VTAM
  _____  _____  _____  _____
  P01        IDLE
  P02        IDLE
  P03        IDLE
  P04        IDLE
  -- End of Display -- (Number of Items=4      )

Commands: S=Select  D=Delete  A=Add  1=Start  2=Stop  4=Trace  7=Force
PF1-HELP  PF3-END    PF7-BACKWARD  PF8-FORWARD  PF2-REFRESH
```

JQP commands keyed in the Command Line field are processed first. Next, JQP commands equated to a PFkey, followed by Line Commands keyed next to a VTAM printer are processed. Lastly, pressing enter refreshes the current page of VTAM printers. Note: When using a Line Command to display another screen (i.e., Select), any line commands keyed after it are not processed.

#### Line Commands

- (S)elect To display more detail about the VTAM printer, type an “S” in the Line Command column next to the desired VTAM printer and press the ENTER key.
- (D)elete To delete a VTAM printer, type an “D” in the Line Command column next to the desired VTAM printers and press the ENTER key.
- (A)dd To add a VTAM printer, type an “A” in the Line Command column next to any VTAM printer and press the ENTER key. The VTAM printer chosen is used to model the VTAM printer to add.
- 1(Start) To make the VTAM printer available for use, type a “1” in the Line Command column next to the desired VTAM printer and press the ENTER key. After the printer starts, JQP begins printing reports.
- 2(Stop) To make the VTAM printer unavailable for use, type a “2” in the Line Command column next to the desired VTAM printer and press the ENTER key. Any reports currently printing finish printing and any reports waiting to print do not start printing until the VTAM printer starts.
- 4(Trace) To toggle the VTAM printer trace facility on and off, type a “4” in the Line Command column next to the desired VTAM printer and press the ENTER key. The tracing facility is provided primarily for the benefit of MacKinney Systems to facilitate debugging. The trace output is directed to the JQPLOG data set and records the data flow between JQP and the VTAM printer. **An “\*” appears between the PRINTER and STATUS fields to indicate the trace is active.**
- 7(Force) To force the VTAM printer immediately unavailable for use, type a “7” in the Line Command column next to the desired VTAM printer and press the ENTER key. Any reports currently printing stop and any destinations assigned to the printer drain.

***Program Function Keys equated to JQP commands***

PF1(Help)	Displays help information for the screen. Column level help is available. Place the cursor in any position under the column and press the HELP PFkey to display the help page with the information for the column.
PF3 (End)	Returns to the JQPFDISL screen.
PF7 (Backward)	Displays the previous page of VTAM printers.
PF8 (Forward)	Displays the next page of VTAM printers.
PF2 (Refresh)	Rebuilds all pages of VTAM printers and displays the first page.

### 4.4.3.1 JQP Menu System – VTAM Printers Select

Entering an “S” in the Line Command column next to a VTAM printer displays the JQPFIXV screen (below) showing all information about the VTAM printer.

```

JQPFIXV          JES QUEUE FOR PRINTERS                               Mode: Update
====> _____

Printer =====> P01                Printer Group ===> _____
Description =====> _____
SCS,TR =====> NO
Status =====> IDLE      OPEN      SNA      Trace Facility ==> OFF
Form =====> TEMP
Logmode =====> _____
Priority =====> 2
Istatus =====> A
Release =====> N 000
Buffer Size =====> 2
Form Feed Seq. ==> 0C0D
New Line Seq. ==> 15
Switch(s) =====> 00000000 00000000 00000000
Separator Exit ==> -
GDDM Class =====> -
Email Notify =====> - - - - -
Email TO: =====> _____

Commands: 1=Start  2=Stop  4=Trace  7=Force                Press ENTER to update
PF1-HELP  PF3-END   PF2-DISPLAY

```

<u>Field</u>	<u>Explanation</u>
Printer	VTAM NETNAME assigned to the printer. <b>Note: This field corresponds to the destination’s Printer Name field.</b> This field is required.
Printer Group	The group assigned to the printer. Place printers into a group to allow certain JQP commands to apply to all printers within the group. For example, to start all printers in group @PAY issue the JQP command "START @PAY". <b>The group must start with the character "@".</b>
Description	Optional one to thirty-two character description for the printer.
SCS,TR	SCS type printer and SCS transparent hexadecimal value. YES                    an SCS type printer and the SCS transparent hexadecimal value. NO                     a non-SCS type printer. blank                  JQP has not used this printer.

The SCS transparent character is a two digit hexadecimal code the printer uses to signify the beginning of transparent data. This character precedes any PCL or postscript printer setup and reset commands. To change the SCS transparent hexadecimal value, over-key the current value and press the ENTER key.

Status	<p>First field is the current JQP status of the VTAM printer.</p> <p>IDLE           the printer is available for JQP to use</p> <p>STOPPED       the printer is unavailable for JQP to use</p> <p>STOPPING      a STOP command has been issued against the printer and is in the process of stopping.</p> <p>PRINTING      a report is currently printing on the printer.</p> <p>I-REQ         intervention is required for this SCS printer.</p> <p>Second field is the current VTAM status of the printer.</p> <p>OPEN          JQP is currently in session with the printer.</p> <p>CLOSED        JQP is currently not in session with the printer.</p> <p>blank         JQP has not used this printer.</p> <p>Third field is the communications protocol used for the printer.</p> <p>SNA           protocol is SNA</p> <p>NON-SNA       protocol is non-SNA</p> <p>Blank         JQP has not used the printer</p>
Trace Facility	<p>Indicates the status of the JQP trace facility for the printer.</p> <p>OFF            JQP is currently NOT tracing the printer</p> <p>SHORT         JQP is currently tracing the printer and recording only the Request Headers (RH)</p> <p>FULL          JQP is currently tracing the printer and recording all information</p> <p>blank         JQP has not used this printer</p>
Form	<p>Specifies the form currently mounted on the printer. Only reports with a matching form start printing. To allow all reports to print regardless of their Form ID, specify a form of blanks for the printer. To change the form option, over-key the current value and press the ENTER key.</p>
Logmode	<p>Specifies the VTAM LOGMODE used in the bind to the printer. To change the LOGMODE, over-key the current value and press the ENTER key.</p>
Priority	<p>The priority of the printer. Use this priority to determine the printer starting first when multiple printers are ready to start printing. Once a printer begins printing, it has the same priority as all other printers currently printing.</p> <p>1(Low)        low priority</p> <p>2(Normal)     normal priority</p> <p>3(High)       high priority</p>
Istatus	<p>Status of the printer when JQP starts.</p> <p>(A)ctive      the printer is active when JQP starts.</p> <p>(I)nactive     the printer is inactive or stopped when JQP starts.</p>
Release	<p>Specifies if JQP releases the printer back to VTAM after printing completes.</p> <p>(Y)es         JQP releases the printer after printing completes. Optionally in the second parameter, specify the number of seconds (0 to 255) to wait before JQP releases the printer after printing completes.</p> <p>(N)o          JQP does not release the printer after printing completes.</p>
Buffer Size	<p>Specifies the buffer size to use for the printer.</p> <p>2             Buffer size allowing the maximum print line length of 1900.</p> <p>4             Buffer size allowing the maximum print line length of 4000.</p>
Form Feed Seq.	<p>Specifies the form feed sequence for the printer. Specify 2, 4 or 6 hexadecimal characters as the form feed sequence. Default sequence is x'0C0D'.</p>

- Line Feed Seq. Specifies the line feed sequence for the printer. Specify 2, 4 or 6 hexadecimal characters as the form feed sequence. Specify blanks to omit the new line sequence. Default sequence is x'15'.
- Switch(s) First set of printer option switches (left to right) one through eight.  
To enable the switch, specify "1". To disable the switch, specify "0".
- Switch(1) Prints all data sets within the report in a separate pass for each copy.  
Printer setup codes (if available) are sent before each copy prints.  
Separator pages (if requested) are printed for each copy.
  - Switch(2) Processes NON-port 515 using LPD/LPR protocol.
  - Switch(3) For LPD/LPR type printers, changes the "Receive Control File" and "Receive Data File" to include the job name rather than the TCP/IP host name.
  - Switch(4) For LPD/LPR type printers, sends the control file first.
  - Switch(5) For TCP/IP "Open/Direct Socket" printers, bypass sending the TCP/IP READ command to acknowledge printing is complete.  
**Note: This option is not recommended!**
  - Switch(6) Not Used.
  - Switch(7) For TCP/IP printers, when Switch 8 is enabled, JQP sends all reports within the same socket.
  - Switch(8) Prints each data set within the report as a separate report.
- Second set of printer option switches (left to right) one through eight.  
To enable the switch, specify "1". To disable the switch, specify "0".
- Switch2(1) Keep the LPD temporary data set.  
**For MacKinney Systems Technical Support Diagnostic.**
  - Switch2(2) When the report generates a zero length data file, the printer's Form Feed Sequence is sent to the printer as the data file.
  - Switch2(3) Use PCL commands to make duplicate overstrike lines BOLD.  
Note: The overstrike line must exactly match the previous line.  
For non-matching lines, reference Destination Line Routine 11.
  - Switch2(4) Call exit program JQPFEX03.
  - Switch2(5) Send the JQP setup module SETUP=1STDD to force the next copy upon the front side of the page.
  - Switch2(6) Not Used.
  - Switch2(7) Pass the FCB image to the JQP Separator Exit.
  - Switch2(8) Write highlighted message to the System Console when the FORM needs mounting on the JQP printer to print the selected report.  
In addition for destinations using the FORM ID as the setup module name, send the 1STDD codes before the form change and the EXIT codes after the form change.
- Third set of printer option switches (left to right) one through eight.  
To enable the switch, specify "1". To disable the switch, specify "0".
- Switch3(1) For IPP type printers only, send the report to the printer using the Content-Length method.
  - Switch3(2) For IPP type printers only, append the printer's queue name to the POST URI name.
  - Switch3(3) Not Used.
  - Switch3(4) Not Used.
  - Switch3(5) Not Used.
  - Switch3(6) Not Used.
  - Switch3(7) Not Used.
  - Switch3(8) Not Used.

Separator Exit	<p>Specifies the separator exit to use for the printer.</p> <p>Blank indicates the default separator page exit specified in the JQP Control Table (JQPFDFACT) is used.</p> <p>1 indicates the separator page exit JQPFPRS1 is used.</p> <p>2 indicates the separator page exit JQPFPRS2 is used.</p> <p>3 indicates the separator page exit JQPFPRS3 is used.</p> <p>4 indicates the separator page exit JQPFPRS4 is used.</p> <p>5 indicates the separator page exit JQPFPRS5 is used.</p>
GDDM Class	<p>SYSOUT class JQP identifies as a GDDM data set and call module ADMOPUJ.</p> <p>Leave the field blank to bypass GDDM processing.</p>
Email Notify	<p>Specifies the seven email notification options for this printer.</p> <p>First option is for successful printing email notification.</p> <p>Second option is for failed printing email notification.</p> <p>Third option is for re-queued printing email notification.</p> <p>Fourth option is for intervention required (I-REQ) printing email notification.</p> <p>Blank indicates the default notifications options specified in the JQP Control Table (JQPFDFACT) are used.</p> <p>0=No indicates the email notification option is not used.</p> <p>1=Yes indicates the email notification option is used.</p> <p>Fifth option specifies the email sensitivity option for this printer.</p> <p>Blank indicates the default sensitivity option specified in the JQP Control Table (JQPFDFACT) is used.</p> <p>0 Normal Sensitivity</p> <p>1 Personal Sensitivity</p> <p>2 Private Sensitivity</p> <p>3 Confidential Sensitivity</p> <p>Sixth option specifies the email importance option for this printer.</p> <p>Blank indicates the default importance option specified in the JQP Control Table (JQPFDFACT) is used.</p> <p>0 Normal Importance</p> <p>1 Low Importance</p> <p>2 High Importance</p> <p>Seventh option specifies the email notification job name table group for this printer. Use the job name table to limit email notification by job name.</p> <p>Blank indicates email notification is not limited to the job name table.</p>
Email To:	<p>Specifies one or two TCP/IP email notification addresses. The second email notification address must be separated from the first by a semicolon. Both TCP/IP email notification addresses combined are limited to 64 bytes.</p> <p>Blank indicates the default email address specified in the JQP Control Table (JQPFDFACT) is used.</p>

## **Commands**

- 1(Start) To make the VTAM printer available for use, type a “1” in the Command Line field and press the ENTER key. After the printer is started, JQP begins printing reports to the printer.
- 2(Stop) To make the VTAM printer unavailable for use, type a “2” in the Command Line field and press the ENTER key. Any reports currently printing finish printing and any reports waiting to print do not start printing until the VTAM printer starts.
- 4(Trace) To toggle the VTAM printer trace facility on and off, type a “4” in the Command Line field and press the ENTER key. The tracing facility is provided primarily for the benefit of MacKinney Systems to facilitate debugging. The trace output is directed to the JQPLOG data set and records the data flow between JQP and the VTAM printer.
- 7(Force) To force the VTAM printer immediately unavailable for use, type a “7” in the Command Line field and press the ENTER key. Any reports currently printing stop and destinations assigned to the printer drain.

## **Program Function Keys equated to JQP commands**

- PF1(Help) Displays help information for the screen.  
Field level help is available. Place the cursor in any position within field and press the HELP PFkey to display the help page with the information for the field.
- PF2(Display/Update) Toggles between "Display Mode" and "Update Mode".  
**For "Display Mode", any default fields are updated with the default system values and displayed in yellow.**
- PF3 (End) Ignores any changes made to the VTAM printer and returns to the JQPFDIVP screen.
- ENTER Validates and updates the changes made to the VTAM printer.

### 4.4.3.2 JQP Menu System – VTAM Printers Delete

Entering a “D” in the Line Command column next to a VTAM printer displays the JQPFIDIXV screen (below) showing the delete confirmation message for the VTAM printer.

```
JQPFIDIXV      JES QUEUE FOR PRINTERS                               Mode: Delete
===>
JQPGMENU02 ** PRESS ENTER TO CONFIRM DELETE, PF3 TO CANCEL **

Printer =====> P01
Description =====>
SCS,TR =====> NO
Status =====> STOPPED   CLOSED           Trace Facility ==> OFF
Form =====> TEMP
Logmode =====>
Priority =====> 2
Istatus =====> A
Release =====> N 000
Buffer Size =====> 2
Form Feed Seq. ==> 0C0D
New Line Seq. ==> 15
Switch(s) =====> 00000000 00000000 00000000
Separator Exit ==>
GDDM Class =====>
Email Notify =====>
Email TO: =====>

Commands: 1=Start  2=Stop  4=Trace  7=Force           Press ENTER to update
PF1-HELP  PF3-END   PF2-DISPLAY
```

#### *Program Function Keys equated to JQP commands*

- PF1(Help)        Displays help information for the screen.  
Field level help is available. Place the cursor in any position within field and press the HELP PFkey to display the help page with the information for the field.
- PF3 (Cancel)    Cancels the delete request and returns to the JQPFIDIVP screen.
- ENTER           Confirms the delete request, deletes the VTAM printer and returns to the JQPFIDIVP screen.

### 4.4.3.3 JQP Menu System – VTAM Printers Add

Entering an “A” in the Line Command column next to a VTAM printer displays the JQPFIXV screen (below) showing all information for the new VTAM printer.

```
JQPFIXV          JES QUEUE FOR PRINTERS                      Mode: Add
====>

Printer =====> _____ Printer Group ====> _____
Description =====> _____
SCS,TR =====> _____
Status =====> _____ Trace Facility ==>
Form =====> _____
Logmode =====> _____
Priority =====> 2
Istatus =====> A
Release =====> N 000
Buffer Size =====> 2
Form Feed Seq. ==> 0C0D
New Line Seq. ==> 15
Switch(s) =====> 00000000 00000000 00000000
Separator Exit ==> -
GDDM Class =====> -
Email Notify =====> -
Email TO: =====> _____

Commands: 1=Start  2=Stop  4=Trace  7=Force          Press ENTER to update
PF1-HELP  PF3-END   PF2-DISPLAY
```

For a description of each field on the screen above, reference section [4.4.3.1 JQP Menu System – VTAM Printers Select](#).

#### ***Program Function Keys equated to JQP commands***

- |           |   |
|-----------|---|
| PF1(Help) | Displays help information for the screen.<br>Field level help is available. Place the cursor in any position within field and press the HELP PFkey to display the help page with the information for the field. |
| PF3 (End) | Ignores any changes made to the VTAM printer and returns to the JQPFIXV screen.   |
| ENTER     | Validates and adds the VTAM printer then redisplay the JQPFIXV screen ready to add the next printer. When there are no more printers to add, press the PF3(END) key to return to the JQPFIXV screen.            |

#### 4.4.4 JQP Menu System – TCP/IP Printers

Entering the number four in the command line field on the JQPFDISL screen displays the JQPFDIIP screen (below) showing all TCP/IP printers defined to JQP. Entering “MENU” on any JQP screen also displays this screen.

To filter or limit the display to a single TCP/IP printer, enter a space and the TCP/IP printer name after the number four on the JQPFDISL screen or enter a space and the TCP/IP printer name after the MENU command on any JQP screen. Use an “\*” in any position of the printer’s name to limit the display to only the printers matching the generic filter. Use a printer group name (starting with the character “@”) to display all TCP/IP printers assigned to the group. When using a filter to limit the display, the filter is displayed above the PRINTER column. For example, to display all TCP/IP printers beginning with IP, enter “4 IP\*” on the JQPFDISL screen or “MENU IP\*” on any JQP screen. **The FILTER command is supported for this function.**

```

JQPFDIIP      JES QUEUE FOR PRINTERS
====>

```

IP*	PRINTER	STATUS	TCP/IP HOST NAME;PORT	DESCRIPTION	FORM
	IP01	STARTED	P390330;515		STD
	IP02		P390330;515		STD
	IP03		MS6000;515		STD
	IP04		MS6000;515		STD
	IP05		092.068.055.49;9100		STD
	IP06		092.068.055.49;9100		STD
	-- End of Display -- (Number of Items=6 )				

```

Commands: S=Select  D=Delete  A=Add  1=Start  2=Stop  4=Trace  7=Force
PF1-HELP  PF3-END    PF7-BACKWARD PF8-FORWARD PF2-REFRESH

```

JQP commands keyed in the Command Line field are processed first. Next, JQP commands equated to a PFkey, followed by Line Commands keyed next to a TCP/IP printer are processed. Lastly, pressing enter refreshes the current page of TCP/IP printers. Note: When using a Line Command to display another screen (i.e., Select), any line commands keyed after it are not processed.

##### Line Commands

- (S)elect To display more detail about the TCP/IP printer, type an “S” in the Line Command column next to the desired TCP/IP printer and press the ENTER key.
- (D)elete To delete a TCP/IP printer, type an “D” in the Line Command column next to the desired TCP/IP printer and press the ENTER key.
- (A)dd To add a TCP/IP printer, type an “A” in the Line Command column next to any TCP/IP printer and press the ENTER key. The TCP/IP printer chosen is used to model the TCP/IP printer to add.
- 1(Start) To make the TCP/IP printer available for use, type a “1” in the Line Command column next to the desired TCP/IP printer and press the ENTER key. After the printer starts, JQP begins printing reports to the printer.
- 2(Stop) To make the TCP/IP printer unavailable for use, type a “2” in the Line Command column next to the desired TCP/IP printer and press the ENTER key. Any reports currently printing finish and any reports waiting to print do not start printing until the TCP/IP printer starts.
- 4(Trace) To toggle the TCP/IP printer trace facility on and off, type a “4” in the Line Command column next to the desired TCP/IP printer and press the ENTER key. The tracing facility is provided primarily for the benefit of MacKinney Systems to facilitate debugging. The trace output is directed to the TCPLOG data set and records the data flow between JQP and the TCP/IP printer. **An “\*” appears between the PRINTER and STATUS fields to indicate the trace is active.**

7(Force) To force the TCP/IP printer unavailable immediately, type a “7” in the Line Command column next to the desired TCP/IP printer and press the ENTER key. Any reports currently printing stop and any destinations assigned to the printer drain.

***Program Function Keys equated to JQP commands***

PF1 (Help)	Displays help information for the screen. Column level help is available. Place the cursor in any position under the column and press the HELP PFkey to display the help page with the information for the column.
PF3 (End)	Returns to the JQPFDISL screen.
PF7 (Backward)	Displays the previous page of TCP/IP printers.
PF8 (Forward)	Displays the next page of TCP/IP printers.
PF2 (Refresh)	Rebuilds all pages of TCP/IP printers and displays the first page.

### 4.4.4.1 JQP Menu System – TCP/IP Printers Select

Entering an “S” in the Line Command column next to a TCP/IP printer displays the JQPFIXI screen (below) showing all information about the TCP/IP printer.

```

JQPFIXI      JES QUEUE FOR PRINTERS
====> _____

Printer =====> IP01          Printer Group ===> _____
Description =====> _____
Status =====> STARTED       Trace Facility ==> OFF
Host Name ===> P390330
Queue Name =====> DLM1
Port Number =====> 515          Bind LPR Port ===> 1
Form =====> STD              Separator Exit ==> _____
TCP Wait Time(s)=> 0 0 0        PjL Options =====> 00000000 0
Priority =====> 2             Istatus =====> A
Buffer Size =====> 4
Form Feed Seq. ==> 0C0D          New Line Seq. ===> 0D0A
Switch(s) =====> 00000000 00000000 00000000
LPD Control File=> _____

Email Notify =====> - - - - -
Email TO: ===> _____
MPT Support =====> 0 _____

Commands: 1=Start  2=Stop  4=Trace  7=Force          Press ENTER to update
PF1-HELP  PF3-END  PF2-DISPLAY

```

<u>Field</u>	<u>Explanation</u>
Printer	Name assigned to the printer. <b>Note: This field corresponds to the destination’s Printer Name field.</b> This field is required.
Printer Group	The group assigned to the printer. Place printers into a group to allow certain JQP commands to apply to all printers within the group. For example, to start all printers in group @PAY issue the JQP command "START @PAY". <b>The group must start with the character "@".</b>
Description	Optional one to thirty-two character description for the printer.
Status	Current status of the TCP/IP printer. IDLE           the printer is available for JQP to use STOPPED       the printer is unavailable for JQP to use STOPPING      a STOP command has been issued against the printer and is in the process of stopping. PRINTING     a report is currently printing on the printer. I-REQ         indicates intervention required for this SCS printer.
Trace Facility	Indicates the status of the JQP trace facility for the printer. OFF            JQP is currently NOT tracing the printer SHORT         JQP is currently tracing the printer and recording only the Request Headers (RH) FULL          JQP is currently tracing the printer and recording all information blank         JQP has not used this printer

Host Name	Specifies the TCP/IP host name or host address for the LPD or “direct/open” socket printer. The host name can be up to 64 bytes in length for installations using an external Domain Name Server (DNS) or 24 bytes for installations not using an external DNS. Enter the host address in standard xxx.xxx.xxx.xxx format. To change the host name option, over-key the current value and press the ENTER key.
Queue Name	Specifies the TCP/IP printer queue name defined on the LPD server. The printer queue name can be up to 48 bytes in length and may be entered in mixed case. Variables are allowed in this field, reference <a href="#">3.7.4 Printer Queue Name Variables</a> . <b>Note: This parameter is not used for printers using a “direct/open sockets” connection.</b> To change the queue name option, over-key the current value and press the ENTER key.
Port Number	Specify the port number used in the TCP/IP connection. The port number is always 515 for LPD connections. Some network printer adapters support a “direct/open” socket connection. The most common port for this type of connection is 9100. Reference the documentation for the network printer adapter for more information. To change the port number option, over-key the current value and press the ENTER key.
Bind LPR Port	Specifies if JQP binds the LPR to ports 721 through 731 as documented in RFC1179. 0(No)                JQP does not bind the LPR to ports 721 through 731 1(Yes)              JQP binds the LPR to ports 721 through 731
Form	Specifies the form currently mounted on the printer. Only reports with a matching form start printing. To allow all reports to print regardless of their Form ID, specify a form of blanks for the printer. To change the form option, over-key the current value and press the ENTER key.
Separator Exit	Specifies the separator exit used for the printer. Blank                the default separator page exit specified in the JQP Control Table (JQPFDFCT) is used. 1                      the separator page exit JQPFPRS1 is used. 2                      the separator page exit JQPFPRS2 is used. 3                      the separator page exit JQPFPRS3 is used. 4                      the separator page exit JQPFPRS4 is used. 5                      the separator page exit JQPFPRS5 is used.
TCP Wait Time(s)	First parameter indicates if JQP issues the TCP/IP CANCEL command after waiting the amount of time specified for a TCP/IP command to complete. blank                use the default wait time specified in the Control Table TCPIP parameter. 0                      JQP does not issue the TCP/IP CANCEL command. 1-32767              the number of seconds JQP waits for a TCP/IP command to complete before the TCP/IP CANCEL command is issued.  Second parameter indicates the number of seconds JQP delays after the report successfully prints. 0-255                the number of seconds JQP delays between printing reports.  Third parameter specifies the number of seconds JQP delays after sending approximately 8k to the TCP/IP printer. blank                use the default wait time specified in the Control Table TCPIP parameter. 0                      JQP does not delay while sending the report. 1 – 300              the number of seconds JQP delays after sending approximately 8k to the TCP/IP printer. <b>JQP will attempt to pace the amount of data sent to the printer with the printer’s printing speed.</b>

Priority	<p>The priority of the printer. Use this priority to determine the printer starting first when multiple printers are ready to start printing. Once a printer begins printing, it has the same priority as all other printers currently printing.</p> <p>1(Low)            low priority  2(Normal)        normal priority  3(High)           high priority</p>
Istatus	<p>Status of the printer when JQP starts.</p> <p>(A)ctive         the printer is active when JQP starts.  (I)nactive        the printer is inactive or stopped when JQP starts.</p>
Buffer Size	<p>Specifies the buffer size used for the printer.</p> <p>2                 Printer buffer size is 2K.  4                 Printer buffer size is 4K.  8                 printer buffer size is 8K.  X                 JQP computes the maximum buffer size based upon the Control Table parameter TRBSIZE.</p> <p><b>Buffer sizes 8K and MAX are intended for TCP/IP connections to print servers rather than actual printers.</b></p>
PJL Options	<p>Printer Job Language (PJL) support parameters.</p> <p>First parameter is a set of PJL option switches (left to right) one through eight. To enable the switch, specify "1". To disable the switch, specify "0".</p> <p>SWITCH(1)      Printer Job Language (PJL) is supported for this printer.                      <b>PJL is available for TCP/IP "Open Socket" printers only.</b></p> <p>SWITCH(2)      PJL, Send JOB and EOJ commands.                      <b>This option is required to restart reports by page number.</b></p> <p>SWITCH(3)      PJL page count includes all pages printed but NOT all pages processed in non-printing mode. Non-printing mode occurs when a report is not restarted from page one.</p> <p>SWITCH(4)      Display the job message on the printer's control panel.                      The job message format is "JOBNAME/JOBID/GRPID".</p> <p>SWITCH(5)      PJL, Enables unsolicited device status. The printer sends a status message when device changes occur.</p> <p>SWITCH(6)      PJL, Enables unsolicited job status. The printer sends a status message every time a job begins, ends or is canceled.</p> <p>SWITCH(7)      PJL, Enables unsolicited page status. The printer sends a status message every time a page reaches the output tray.</p> <p>SWITCH(8)      PJL, Enables time unsolicited status "automatic polling", reference the PJL Options seconds parameter.</p> <p>Second parameter is the number of seconds between "automatic polling" current printer status messages. Specify a value between 5 and 300 seconds. Specify zero to turn off this feature. <b>Requires SWITCH(8) be enabled.</b></p>
Form Feed Seq.	<p>Specifies the form feed sequence for the printer. Specify 2, 4 or 6 hexadecimal characters as the form feed sequence. Default sequence is x'0C0D'.</p>
Line Feed Seq.	<p>Specifies the line feed sequence for the printer. Specify 2, 4 or 6 hexadecimal characters as the line feed sequence. Specify blanks to omit the new line sequence. Default sequence is x'0A0D'.</p>

- Switch(s) First set of printer option switches (left to right) one through eight.  
To enable the switch, specify "1". To disable the switch, specify "0".
- Switch(1) JQP prints all data sets within the report in a separate pass for each copy.  
Printer setup codes (if available) are sent before each copy prints.  
Separator pages (if requested) print for each copy.
  - Switch(2) JQP processes NON-port 515 using LPD/LPR protocol.
  - Switch(3) For LPD/LPR type printers, changes the "Receive Control File" and "Receive Data File" to include the job name rather than the TCP/IP host name.
  - Switch(4) For LPD/LPR type printers, sends the control file first.
  - Switch(5) For TCP/IP "Open/Direct Socket" printers, bypass sending the TCP/IP READ command to acknowledge printing is complete.  
**Note: This option is not recommended!**
  - Switch(6) For printers with multiple destinations, JQP prints all reports for the destination before restarting from the first destination.
  - Switch(7) When Switch 8 is enabled, JQP sends all reports within the same socket.
  - Switch(8) Prints each data set within the report as a separate report.

- Second set of printer option switches (left to right) one through eight.  
To enable the switch, specify "1". To disable the switch, specify "0".
- Switch2(1) Keep the LPD temporary data set.  
**For MacKinney Systems Technical Support Diagnostic.**
  - Switch2(2) When the report generates a zero length data file, the printer's Form Feed Sequence is sent to the printer as the data file.
  - Switch2(3) Use PCL commands to make duplicate overstrike lines BOLD.  
Note: The overstrike line must exactly match the previous line.  
For non-matching lines, reference Destination Line Routine 11.
  - Switch2(4) Call exit program JQPFEX03.
  - Switch2(5) Send the JQP setup module SETUP=1STDD to force the next copy to the front side of the page.
  - Switch2(6) Not Used.
  - Switch2(7) Pass the FCB image to the JQP Separator Exit.
  - Switch2(8) Write highlighted message to the System Console when the FORM needs mounting on the JQP printer to print the selected report.  
In addition for destinations using the FORM ID as the setup module name, send the 1STDD codes before the form change and the EXIT codes after the form change.

- Third set of printer option switches (left to right) one through eight.  
To enable the switch, specify "1". To disable the switch, specify "0".
- Switch3(1) For IPP type printers only, send the report to the printer using the Content-Length method.
  - Switch3(2) For IPP type printers only, append the printer's queue name to the POST URI name.
  - Switch3(3) Not Used.
  - Switch3(4) Not Used.
  - Switch3(5) Not Used.
  - Switch3(6) Not Used.
  - Switch3(7) Not Used.
  - Switch3(8) Not Used.

LPD Control File Specifies the LPD Control File group to use to build the LPD control file. Blank indicates the default separator group specified in the JQP Control Table (JQPFDFCT) is used.

Email Notify

Specifies the four email notification options for this printer.  
 First option is for successful printing email notification.  
 Second option is for failed printing email notification.  
 Third option is for re-queued printing email notification.  
 Fourth option is for intervention required (I-REQ) printing email notification.

Blank            the default notifications options specified in the JQP Control Table (JQPFDFACT) are used.

0=No            the email notification option is not used.  
 1=Yes           the email notification option is used.

Fifth option specifies the email sensitivity option for this printer.

Blank            the default sensitivity option specified in the JQP Control Table (JQPFDFACT) is used.

0                Normal Sensitivity  
 1                Personal Sensitivity  
 2                Private Sensitivity  
 3                Confidential Sensitivity

Sixth option specifies the email importance option for this printer.

Blank            the default importance option specified in the JQP Control Table (JQPFDFACT) is used.

0                Normal Importance  
 1                Low Importance  
 2                High Importance

Seventh option specifies the email notification job name table group for this printer. Use the job name table to limit email notification by job name.

Blank            email notification is not limited to the job name table.

Email To:

Specifies one or two TCP/IP email notification addresses. The second email notification address must be separated from the first by a semicolon. Both TCP/IP email notification addresses combined are limited to 64 bytes.

Blank            the default email address specified in the JQP Control Table (JQPFDFACT) is used.

MPT Support

Specifies support for the MacKinney Print Transform (MPT) product.  
 First parameter indicates if MPT is supported for this printer.

0=No    MPT is not supported.  
 1=Yes   MPT is supported.  
 2=All   MPT is supported for all reports.

Second parameter indicates the MacKinney Print Transform member to use to control the print data stream conversion. **This parameter is required when MPT is supported. The member must be currently on file.**

Third parameter indicates the MPT member selection field.

blank=DEFAULT    Use the system MPT member selection parameter to determine the field used as the MPT member name.

0=NONE            Do NOT use any report fields as the MPT member name.  
 1=XWTR            Use the report's XWRITER as the MPT member name.  
 2=DEST            Use the report's destination as the MPT member name.  
 3=FORM            Use the report's form-id as the MPT member name.  
 4=FCB             Use the report's FCB as the MPT member name.  
 5=FLASH           Use the report's FLASH as the MPT member name.  
 6=EXIT            Call the exit JQPFMPTX for the MPT member name.  
 7=PAGEDEF        Use the report's PAGEDEF as the MPT member name.  
 8=FORMDEF        Use the report's FORMDEF as the MPT member name.

## **Commands**

- 1(Start) To make the TCP/IP printer available for use, type a "1" in the Command Line field and press the ENTER key. After the printer starts, JQP begins printing reports to the printer.
- 2(Stop) To make the TCP/IP printer unavailable for use, type a "2" in the Command Line field and press the ENTER key. Any reports currently printing finish and any reports waiting to print do not start printing until the TCP/IP printer starts.
- 4(Trace) To toggle the TCP/IP printer trace facility on and off, type a "4" in the Command Line field and press the ENTER key. The tracing facility is provided primarily for the benefit of MacKinney Systems to facilitate debugging. The trace output is directed to the JQPLOG data set and records the data flow between JQP and the TCP/IP printer.
- 7(Force) To force the TCP/IP printer immediately unavailable for use, type an "7" in the Command Line field and press the ENTER key. Any reports currently printing stop and any destinations assigned to the printer drain.

## **Program Function Keys equated to JQP commands**

- PF1(Help) Displays help information for the screen.  
Field level help is available. Place the cursor in any position within field and press the HELP PFkey to display the help page with the information for the field.
- PF2(Display/Update) Toggles between "Display Mode" and "Update Mode".  
**For "Display Mode", any default fields are updated with the default system values and displayed in yellow.**
- PF3 (End) Ignores any changes made to the TCP/IP printer and returns to the JQPFDIIP screen.
- ENTER Validates and updates the changes made to the TCP/IP printer.

#### 4.4.4.2 JQP Menu System – TCP/IP Printers Delete

Entering a “D” in the Line Command column next to a TCP/IP printer displays the JQPF DIXI screen (below) showing the delete confirmation message for the TCP/IP printer.

```
JQPF DIXI      JES QUEUE FOR PRINTERS
====>
JQPGMENU02 ** PRESS ENTER TO CONFIRM DELETE, PF3 TO CANCEL **

Printer =====> IP01          Printer Group ==>
Description =====>
Status =====> STARTED        Trace Facility ==> OFF
Host Name ==> P390330
Queue Name =====> DLM1
Port Number =====> 515        Bind LPR Port ==> 1
Form =====> STD              Separator Exit ==>
TCP Wait Time(s)=> 0      0      0    PjL Options =====> 00000000 0
Priority =====> 2            Istatus =====> A
Buffer Size =====> 4
Form Feed Seq. ==> 0C0D          New Line Seq. ==> 0D0A
Switch(s) =====> 00000000 00000000 00000000
LPD Control File=>

Email Notify =====>
Email TO: ==>
MPT Support =====> 0

Commands: 1=Start  2=Stop  4=Trace  7=Force          Press ENTER to update
PF1-HELP  PF3-END   PF2-DISPLAY
```

#### *Program Function Keys equated to JQP commands*

- PF1(Help)        Displays help information for the screen.  
Field level help is available. Place the cursor in any position within field and press the HELP PFkey to display the help page with the information for the field.
- PF3 (Cancel)    Cancels the delete request and returns to the JQPF DIIP screen.
- ENTER           Confirms the delete request, deletes the TCP/IP printer and returns to the JQPF DIIP screen.

### 4.4.4.3 JQP Menu System – TCP/IP Printers Add

Entering an “A” in the Line Command column next to a TCP/IP printer displays the JQPFIXI screen (below) showing all information for the new TCP/IP printer.

```

JQPFIXI      JES QUEUE FOR PRINTERS
====> _____

Printer =====> _____      Printer Group ===> _____
Description =====> _____
Status =====> _____      Trace Facility ==> _____
Host Name ===> _____
Queue Name =====> _____
Port Number =====> 515          Bind LPR Port ===> 1
Form =====> _____      Separator Exit ==> _____
TCP Wait Time(s)=> 0 0 0      PjL Options =====> 00000000 0
Priority =====> 2          Istatus =====> A
Buffer Size =====> 4
Form Feed Seq. ==> 0C0D      New Line Seq. ===> 0D0A
Switch(s) =====> 00000000 00000000 00000000
LPD Control File=> _____

Email Notify =====> _ _ _ _ _
Email TO: ===> _____
MPT Support =====> 0 _____

Commands: 1=Start  2=Stop  4=Trace  7=Force          Press ENTER to update
PF1-HELP  PF3-END  PF2-DISPLAY

```

For a description of each field on the screen above, reference section [4.4.4.1 JQP Menu System – TCP/IP Printers Select](#).

#### ***Program Function Keys equated to JQP commands***

- PF1(Help)        Displays help information for the screen.  
Field level help is available. Place the cursor in any position within field and press the HELP PFkey to display the help page with the information for the field.
- PF3 (End)        Ignores any changes made to the TCP/IP printer and returns to the JQPFIXI screen.
- ENTER            Validates and adds the TCP/IP printer and redisplay the JQPFIXI screen ready to add the next printer. When no more printers are to be added, press the PF3(END) key to return to the JQPFIXI screen.

## 4.4.5 JQP Menu System – Terminals

Entering the number five in the command line field on the JQPFDISL screen displays the JQPFDIVT screen (below) showing all terminals defined to JQP and dynamic terminals accessing JQP. Entering “MENU” on any JQP screen also displays this screen.

To filter or limit the display to a single terminal, enter a space and the terminal name after the number five on the JQPFDISL screen or enter a space and the terminal name after the MENU command on any JQP screen. Use an “\*” in any position of the terminals name to limit the display to terminals matching the generic filter. When using a filter to limit the display, the filter displays above the TERMINAL column. For example, to display all terminals beginning with T, enter “5 T\*” on the JQPFDISL screen or “MENU P\*” on any JQP screen.

```
JQPFDIVT      JES QUEUE FOR PRINTERS
====>

  T*
  _____
  | TERMINAL | TYPE | DESCRIPTION | USER | VTAM |
  |-----|-----|-----|-----|-----|
  | T*       | STATIC |              |      |      |
  | T01B     | STATIC |              | DLM1 | OPEN |
  |-----|-----|-----|-----|-----|
  | -- End of Display -- (Number of Items=2 ) |
  |-----|-----|-----|-----|

Commands: S=Select  D=Delete  A=Add  4=Trace
PF1-HELP  PF3-END    PF7-BACKWARD  PF8-FORWARD  PF2-REFRESH
```

JQP commands keyed in the Command Line field are processed first. Next, JQP commands equated to a PFkey, followed by Line Commands keyed next to a terminal are processed. Lastly, pressing enter refreshes the current page of terminals. Note: When using a Line Command to display another screen (i.e., Select), any line commands keyed after it are not processed.

### *Line Commands*

- (S)elect To display more detail about the terminal, type an “S” in the Line Command column next to the desired terminal and press the ENTER key.
- (D)elete To delete a terminal, type a “D” in the Line Command column next to the desired terminal and press the ENTER key.
- (A)dd To add a terminal, type an “A” in the Line Command column next to any terminal and press the ENTER key. The terminal chosen is used to model the terminal to add.
- 4(Trace) To toggle the terminal trace facility on and off, type a “4” in the Line Command column next to the desired terminal and press the ENTER key. The tracing facility is provided primarily for the benefit of MacKinney Systems to facilitate debugging. The trace output is directed to the JQPLOG data set and records the data flow between JQP and the terminal.

### *Program Function Keys equated to JQP commands*

- PF1(Help) Displays help information for the screen. Column level help is available. Place the cursor in any position under the column and press the HELP PFkey to display the help page with the information for the column.
- PF3 (End) Returns to the JQPFDISL screen.
- PF7 (Backward) Displays the previous page of terminals.
- PF8 (Forward) Displays the next page of terminals.
- PF2 (Refresh) Rebuilds all pages of terminals and displays the first page.

#### 4.4.5.1 JQP Menu System – Terminals Select

Entering an “S” in the Line Command column next to a terminal displays the JQPFDIRT screen (below) showing all information about the terminal.

```

JQPFDIRT          JES QUEUE FOR PRINTERS                               Mode: Update
====> _____

Terminal =====> T01B
Description =====> _____
User =====> DLM1
VTAM Status =====> OPEN
Protocol =====> SNA
Trace Facility ==> OFF
Auto Logon ID ===> _____
DFT Screen Size => 24, 80
ALT Screen Size => 24, 80
Bracket =====> INB
Direction =====> OUTBOUND
Extlds Support ===> D0

Commands: 4=Trace                                     Press ENTER to update
PF1-HELP  PF3-END  PF2-DISPLAY

```

<u>Field</u>	<u>Explanation</u>
Terminal	VTAM NETNAME assigned to the terminal. This field is required.
Description	Optional one to thirty-two character description for the terminal.
User	Indicates the user who is currently logged on this terminal. Blank indicates no user is currently logged on this terminal.
VTAM Status	Current VTAM status of the terminal. OPEN            JQP is currently in session with the terminal. CLOSED        JQP is currently not in session with the terminal. blank           JQP has not used this terminal.
Protocol	Indicates the communications protocol used for the terminal. SNA             protocol is SNA NON-SNA        protocol is non-SNA blank           JQP has not used the terminal
Trace Facility	Indicates the status of the JQP trace facility for the terminal. OFF             JQP is currently NOT tracing the terminal. SHORT          JQP is currently tracing the terminal and recording only the Request Headers (RH) FULL            JQP is currently tracing the terminal and recording all information blank           JQP has not used this terminal
Auto Logon ID	User ID associated with the terminal. When a user is specified, JQP automatically logs on the specified user when a VTAM session is created between the terminal and JQP. The normal JQP logon screen is bypassed altogether. To change the Auto Logon ID option, over-key the current value and press the ENTER key.

Extds Support	Terminal's extended data stream capabilities
DFT Screen Size	Default screen size of the terminal.
ALT Screen Size	Alternate screen size of the terminal.
Bracket	The bracket state of the terminal. INB               the terminal is in bracket state. BETB             terminal is out of bracket state.
Direction	Terminal's data stream direction. OUTBOUND    the data stream is outbound to the terminal INBOUND     the data stream is inbound to the terminal

***Commands***

4(Trace) To toggle the terminal trace facility on and off, type a "4" in the Command Line field and press the ENTER key. The tracing facility is provided primarily for the benefit of MacKinney Systems to facilitate debugging. The trace output is directed to the JQPLOG data set and records the data flow between JQP and the terminal.

***Program Function Keys equated to JQP commands***

PF1(Help)	Displays help information for the screen. Field level help is available. Place the cursor in any position within field and press the HELP PFkey to display the help page with the information for the field.
PF2(Display/Update)	Toggles between "Display Mode" and "Update Mode".
PF3 (End)	Ignores any changes made to the terminal and returns to the JQPFDIVT screen.
ENTER	Validates and updates the changes made to the terminal.

#### 4.4.5.2 JQP Menu System – Terminals Delete

Entering a “D” in the Line Command column next to a terminal displays the JQPFDIXT screen (below) showing the delete confirmation message for the terminal.

```
JQPFDIXT          JES QUEUE FOR PRINTERS                               Mode: Delete
===>
JQPGMENU02 ** PRESS ENTER TO CONFIRM DELETE, PF3 TO CANCEL **

Terminal =====> T01B
Description =====>
User =====> DLM1
VTAM Status =====> OPEN
Protocol =====> SNA
Trace Facility ==> OFF
Auto Logon ID ===>
DFT Screen Size => 24, 80
ALT Screen Size => 24, 80
Bracket =====> INB
Direction =====> OUTBOUND
Extds Support ===> D0

Commands: 4=Trace                                     Press ENTER to update
PF1-HELP  PF3-END  PF2-DISPLAY
```

#### ***Program Function Keys equated to JQP commands***

- |              |   |
|--------------|---|
| PF1(Help)    | Displays help information for the screen.<br>Field level help is available. Place the cursor in any position within field and press the HELP PFkey to display the help page with the information for the field. |
| PF3 (Cancel) | Cancels the delete request and returns to the JQPFDIVT screen.  |
| ENTER        | Confirms the delete request, deletes the terminal and returns to the JQPFDIVT screen.   |

### 4.4.5.3 JQP Menu System – Terminals Add

Entering an “A” in the Line Command column next to a terminal displays the JQPFDIXT screen (below) showing all information for the new terminal.

```
JQPFDIXT          JES QUEUE FOR PRINTERS                      Mode: ADD
====> _____
Terminal =====> _____
Description =====> _____
User =====> _____
VTAM Status =====>
Protocol =====>
Trace Facility ==>
Auto Logon ID ===> _____
DFT Screen Size =>
ALT Screen Size =>
Bracket =====>
Direction =====>
Extlds Support ===>

Commands: 4=Trace                                           Press ENTER to update
PF1-HELP  PF3-END  PF2-DISPLAY
```

For a description of each field on the screen above, reference section [4.4.5.1 JQP Menu System – Terminals Select](#).

#### ***Program Function Keys equated to JQP commands***

- |           |   |
|-----------|---|
| PF1(Help) | Displays help information for the screen.<br>Field level help is available. Place the cursor in any position within field and press the HELP PFkey to display the help page with the information for the field. |
| PF3 (End) | Ignores any changes made to the terminal and returns to the JQPFDIVT screen.  |
| ENTER     | Validates and adds the terminal then redisplay the JQPFDIXT screen ready to add the next terminal. When there are no more terminals to add, press the PF3(END) key to return to the JQPFDIVT screen.            |

#### 4.4.5.4 JQP Menu System – Terminal Type

The JQPFDIVT screen (below) shows three types of terminals, static, masked and dynamic.

```
JQPFDIVT      JES QUEUE FOR PRINTERS
====>

  TERMINAL  TYPE      DESCRIPTION      USER      VTAM
-----
  T*        STATIC
  T01B      STATIC      DLM1      OPEN
  T01C      MASKED      DLM2      OPEN
  ZMVST01A DYNAMIC      DLM3      OPEN
  -- End of Display -- (Number of Items=4 )

Commands: S=Select  D=Delete  A=Add  4=Trace
PF1-HELP  PF3-END    PF7-BACKWARD  PF8-FORWARD  PF2-REFRESH
```

**Static terminals** are terminals or terminal masking entries explicitly defined to JQP. **Masked terminals** are terminals created dynamically when first connected to JQP and use a masking entry when defined to JQP; reference Section [4.4.5.5 JQP Menu System - Masking Physical Terminals](#). **Dynamic terminals** are terminals created dynamically when first connected to JQP.

When a terminal connects to JQP, JQP searches the static terminal definitions for a match. When the definition is found, the terminal is a static terminal. When the definition is not found, JQP searches the masking terminal definitions for a match. When a masking definition is found, the terminal is a masked terminal. When not found, the terminal is a dynamic terminal.

When a terminal connects to JQP the first time, a control block is created for the terminal and remains until JQP is terminated; therefore, the following rules apply.

- It is **not** possible to delete a dynamic terminal. It remains until JQP is terminated.
- When a static terminal is deleted, it becomes a masked or dynamic terminal depending upon the terminal masking entries defined to JQP.
- When a masking entry is deleted, masked terminals using the masking entry become dynamic terminals.
- It is possible to turn a dynamic or masked terminal into a static terminal by defining the terminal to JQP.

#### 4.4.5.5 JQP Menu System - Masking Physical Terminals

To reduce the amount of JQP maintenance, use masking characters in the Terminal name. Two special masking characters are defined by parameters MASKALP and MASKNUM in the Control Table (JQPFDFCT). The MASKALP masking character masks any character, while the MASKNUM masks numeric characters only. When a terminal connects to JQP, JQP attempts to locate a matching record for the physical terminal first. When not on file, JQP searches the terminal entries for a matching mask record. When no terminal record entry, including masking records, is found, the dynamic parameters specified in the control table are used. Masking characters may be placed in any position of the Terminal name.

##### Examples

```
Terminal =====> T011           ← entry 1
Terminal =====> T01#           ← entry 2
Terminal =====> *01*           ← entry 3
Terminal =====> T01X           ← entry 4
```

Example 1: Terminal "T011" logs on to JQP. Entry 1 is selected.

Example 2: Terminal "T012" logs on to JQP. Entry 2 is selected.

Example 3: Terminal "T01S" logs on to JQP. Entry 3 is selected.

Example 4: Terminal "S01S" logs on to JQP. Entry 3 is selected.

Example 5: Terminal "T01X" logs on to JQP. Entry 3 is selected.

## 4.4.6 JQP Menu System – Users

Entering the number six in the command line field on the JQPFDISL screen displays the JQPFDIUS screen (below) showing all users defined to JQP and dynamic users accessing JQP. Entering MENUU on any JQP screen also displays this screen.

To filter or limit the display to a single user, enter a space and the user name after the number six on the JQPFDISL screen or enter a space and the user name after the MENUU command on any JQP screen. Use an "\*" in any position of the users name to limit the display to only the users matching the generic filter. When using a filter to limit the display, the filter displays above the USER column. For example, to display all users starting with DLM, enter "6 DLM\*" on the JQPFDISL screen or "MENUU DLM\*" on any JQP screen. **The FILTER command is supported for this function.**

```
JQPFDIUS      JES QUEUE FOR PRINTERS
====> _____

  DLM*
  USER      TYPE      NAME      CLASS  TERMINAL  PRINTER
  _____  _____  _____  _____  _____  _____
  DLM0      STATIC      ADM      ADM
  DLM1      STATIC      OPER     T01B
  DLM2      STATIC      EXTU
  DLM3      STATIC      USER
  -- End of Display -- (Number of Items=4 )

Commands: S=Select  D=Delete  A=Add  P=Purge
PF1-HELP  PF3-END  PF7-BACKWARD  PF8-FORWARD  PF2-REFRESH
```

JQP commands keyed in the Command Line field are processed first. Next, JQP commands equated to a PFkey, followed by Line Commands keyed next to a user are processed. Lastly, pressing enter refreshes the current page of users. Note: When using a Line Command to display another screen (i.e., Select), any line commands keyed after it are not processed.

### Line Commands

- (S)elect To display more detail about the user, type an "S" in the Line Command column next to the desired user and press the ENTER key.
- (D)elete To delete a user, type a "D" in the Line Command column next to the desired user and press the ENTER key.
- (A)dd To add a user, type an "A" in the Line Command column next to any user and press the ENTER key. The user chosen is used to model the user to add.
- (P)urge To purge the user (Logoff) from JQP, type a "P" in the Line Command column next to any user and press the ENTER key.

### Program Function Keys equated to JQP commands

- PF1(Help) Displays help information for the screen.  
Column level help is available. Place the cursor in any position under the column and press the HELP PFkey to display the help page with the information for the column.
- PF3 (End) Returns to the JQPFDISL screen.
- PF7 (Backward) Displays the previous page of users.
- PF8 (Forward) Displays the next page of users.
- PF2 (Refresh) Rebuilds all pages of users and displays the first page.

### 4.4.6.1 JQP Menu System – Users Select

Entering an “S” in the Line Command column next to a user displays the JQPFDIUS screen (below) showing all information about the user.

```

JQPFDIUS          JES QUEUE FOR PRINTERS                               Mode: Update
====>

User =====> DLM1
Name =====>
Class =====> 3              (0=User, 1=Ext. User, 2=Operator
                               3=Administrator)
Logon Status =====> OPEN
USX Mode =====> XU
Macro Group =====> SYSTEM
Printer Group ===>
Terminal =====> T01B
Password =====>
Password Confirm=>
PXRACF Feature ==> _          (0=No, 1=Yes)
Option Flags =====> - - - - . - - - -

Commands:
PF1-HELP  PF3-END  PF2-DISPLAY

Press ENTER to update

```

<u>Field</u>	<u>Explanation</u>
User	One to eight byte name assigned to the user. This field is required.
Name	Optional one to thirty-two character name for the user.
Class	The class assigned to the user. Class determines the commands a user is allowed to access. Reference <a href="#">Section 3.2 JQPFDFCM – Command Table</a> for more details. To change the class option, over-key the current value and press the ENTER key. USER            normal user EXTU            extended user OPER            operator user ADM             administrator user
Logon Status	Current status of the user. OPEN            the user is currently logged on to JQP CLOSED          the user is NOT logged on to JQP blank            the user has never logged on to JQP
USX Mode	Current mode of operation, the screen the user is currently using.
Macro Group	Logon macro group the user is assigned to. A logon macro group is a string of JQP commands executed when the user logs on to JQP. Reference Section <a href="#">3.5 JQPFDFMC – Logon Macro Table</a> for more detail. To change the Macro Group, over-key the current value and press the ENTER key.
Printer Group	Print group the user is assigned to. A printer group contains a list of printers the user is allowed to access. Reference Section <a href="#">3.8 JQPFDFPX – Printer Group Table</a> for more detail. To change the Printer Group, over-key the current value and press the ENTER key.
Terminal	The terminal the user is currently logged on to.

Password	JQP internal security only.
Password Confirm	To change the password for a user, key the new password in both password fields and press the ENTER key.
PXRACF Feature	Specify if RACF controls printer access for the user. 0=No RACF does not control printer access for the user. 1=Yes RACF controls printer access for the user. To change the PXRACF Feature, over-key the current value and press the ENTER key. <b>Change to this field takes effect at the next user sign-on.</b>
Option Flags	One sets of eight special processing flags. Specify "1" to enable the flag, "0" to disable the flag or blank to use the user flag settings in the Control Table (JQPFDFACT) parameters UFLAG1. The flags are numbered left to right.  <u>First set of processing flags</u> Flag 1: The initial JQP definition screen is in "Display Mode" to prevent accidental update. Use the UPDATE command to toggle between "Display Mode" and "Update Mode". Flag 2: Bypass the Administration delete confirmation message. Flag 3: Bypass the initial Menu List screen for a single item. Flag 4: Unused Flag 5: Unused Flag 6: Unused Flag 7: Unused Flag 8: Unused
<b><i>Program Function Keys equated to JQP commands</i></b>	
PF1(Help)	Displays help information for the screen. Field level help is available. Place the cursor in any position within field and press the HELP PFkey to display the help page with the information for the field.
PF2(Display/Update)	Toggles between "Display Mode" and "Update Mode". <b>For "Display Mode", any default fields are updated with the default system values and displayed in yellow.</b>
PF3 (End)	Ignores any changes made to the user and returns to the JQPFDIUS screen.
ENTER	Validates and updates the changes made to the user.

#### 4.4.6.2 JQP Menu System – Users Delete

Entering a “D” in the Line Command column next to a user displays the JQPFDIUS screen (below) showing the delete confirmation message for the user.

```
JQPFDIUS          JES QUEUE FOR PRINTERS                               Mode: Delete
====>
JQPGMENU02 ** PRESS ENTER TO CONFIRM DELETE, PF3 TO CANCEL **
-----
User =====> DLM1
Name =====>
Class =====> 3                (0=User, 1=Ext. User, 2=Operator
                                   3=Administrator)
Logon Status =====> OPEN
USX Mode =====> XU
Macro Group =====> SYSTEM
Printer Group ===>
Terminal =====> T01B
Password =====>
Password Confirm=>
PXRACF Feature ==>                (0=No, 1=Yes)
Option Flags =====> .

Commands:
PF1-HELP  PF3-END  PF2-DISPLAY                                     Press ENTER to update
```

#### *Program Function Keys equated to JQP commands*

- PF1(Help)        Displays help information for the screen.  
Field level help is available. Place the cursor in any position within field and press the HELP PFkey to display the help page with the information for the field.
- PF3 (Cancel)    Cancels the delete request and returns to the JQPFDIUS screen.
- ENTER           Confirms the delete request, deletes the user and returns to the JQPFDIUS screen.

### 4.4.6.3 JQP Menu System – Users Add

Entering an “A” in the Line Command column next to a user displays the JQPFDIUS screen (below) showing all the information for the new user.

```
JQPFDIUS          JES QUEUE FOR PRINTERS                      Mode: Add
====> _____

User =====> _____
Name =====> _____
Class =====> 3          (0=User, 1=Ext. User, 2=Operator
                          3=Administrator)
Logon Status ====>
USX Mode =====>
Macro Group =====> SYSTEM
Printer Group ===> _____
Terminal =====>
Password =====>
Password Confirm=>
PXRACF Feature ==> _      (0=No, 1=Yes)
Option Flags =====> - - - - . - - - -

Commands:
PF1-HELP  PF3-END  PF2-DISPLAY                               Press ENTER to update
```

For a description of each field on the screen above, reference section [4.4.6.1 JQP Menu System – Users Select](#).

#### ***Program Function Keys equated to JQP commands***

- |           |   |
|-----------|---|
| PF1(Help) | Displays help information for the screen.<br>Field level help is available. Place the cursor in any position within field and press the HELP PFkey to display the help page with the information for the field. |
| PF3 (End) | Ignores any changes made to the user and returns to the JQPFDIUS screen.  |
| ENTER     | Validates and adds the user then redisplay the JQPFDIUS screen ready to add the next user. When there are no more users to add, press the PF3(END) key to return to the JQPFDIUS screen.                        |

#### 4.4.6.4 JQP Menu System – User Type

The JQPFDIVUS screen (below) shows three types of users, static, masked and dynamic.

```
JQPFDIUS      JES QUEUE FOR PRINTERS
====>

```

USER	TYPE	NAME	CLASS	TERMINAL	PRINTER GROUP
DLM*	STATIC		ADM		
DLM1	MASKED		ADM	T01B	
MCR1	STATIC		OPER		
WRL3	DYNAMIC		USER		

```

-- End of Display -- (Number of Items=4      )

Commands: S=Select  D=Delete  A=Add  P=Purge
PF1-HELP  PF3-END    PF7-BACKWARD  PF8-FORWARD  PF2-REFRESH
```

**Static users** are users or user masking entries explicitly defined to JQP. **Masked users** are created dynamically when first signed on to JQP and use a masking entry when defined to JQP, reference Section [4.4.6.5 JQP Menu System - Masking Users](#). **Dynamic users** are created dynamically when first signed on to JQP.

When a user signs on to JQP, JQP searches the static user definitions for a match. When the definition is found, the user is a static user. When the definition is not found, JQP searches the masking user definitions for a match. When the masking definition is found, the user is a masked user. When not found, the user is a dynamic user.

When a user signs on to JQP the first time, a control block is created for the user and remains until JQP terminates; therefore, the following rules apply.

- It is **not** possible to delete a dynamic user. It remains until JQP terminates.
- When a static user is deleted, it becomes a masked or dynamic user depending upon the user masking entries defined to JQP.
- When a masking entry is deleted, masked users using the masking entry become dynamic users.
- It is possible to turn a dynamic or masked user into a static user by defining the user to JQP.

#### 4.4.6.5 JQP Menu System - Masking Users

To reduce the amount of JQP maintenance, use masking characters in the User field. Two special masking characters are defined by parameters MASKALP and MASKNUM in the Control Table (JQPFDFCT). The MASKALP masking character masks any character, while the MASKNUM masks numeric characters only. When a user signs on to JQP, JQP attempts to locate a matching record for the user. When not on file, JQP searches the user records for a matching mask record. When no user record entry, including masking entries, is found, the dynamic parameters specified in the control table are used. Masking characters may be placed in any position of the User name.

##### Examples

```
User =====> DLM1           ← entry 1
User =====> DLM#           ← entry 2
User =====> *LM*           ← entry 3
User =====> DLMX           ← entry 4
```

Example 1: User "DLM1" signs on to JQP. Entry 1 is selected.

Example 2: User "DLM2" signs on to JQP. Entry 2 is selected.

Example 3: User "DLMS" signs on to JQP. Entry 3 is selected.

Example 4: User "SLMS" signs on to JQP. Entry 3 is selected.

Example 5: User "DLMX" signs on to JQP. Entry 3 is selected.

NOTE: JQP internal security installations should be aware all users utilizing the masking entry have the same password.

## 4.4.8 JQP Menu System – Print Transform Members

Entering the number eight in the command line field on the JQPFDISL screen displays the JQPFDIPT screen (below) showing all print transform members defined to JQP. Entering MENU on any JQP screen also displays this screen.

To filter or limit the display to a single print transform member, enter a space and the print transform member after the number eight on the JQPFDISL screen or enter a space and the print transform member after the MENU command on any JQP screen. Use an “\*” in any position of the print transform member to limit the display to only the print transform members matching the generic filter. When using a filter to limit the display, the filter displays above the MEMBER column. For example, to display all print transform members beginning with DLM, enter “8 DLM\*” on the JQPFDISL screen or “MENU DLM\*” on any JQP screen. **The FILTER command is supported for this function.**

```
JQPFDIPT      JES QUEUE FOR PRINTERS
====> _____

DLM*
  MEMBER  PDL  DESCRIPTION
- DLM0    PS  Postscript Testing
- DLM1    PCL PCL Testing
-- End of Display -- (Number of Items=2 )

Commands: S=Select  D=Delete  A=Add
PF1-HELP  PF3-END    PF7-BACKWARD  PF8-FORWARD  PF2-REFRESH
```

JQP commands keyed in the Command Line field are processed first. Next, JQP commands equated to a PFkey, followed by Line Commands keyed next to a user are processed. Lastly, pressing enter refreshes the current page of print transform members. Note: When using a Line Command to display another screen (i.e., Select), any line commands keyed after it are not processed.

### Line Commands

- (S)elect To display more detail about the print transform member, type an “S” in the Line Command column next to the desired print transform member and press the ENTER key.
- (D)elete To delete a print transform member, type a “D” in the Line Command column next to the desired print transform member and press the ENTER key.
- (A)dd To add a print transform member, type an “A” in the Line Command column next to any print transform member and press the ENTER key. The print transform member chosen is used to model the print transform member to add.

### Program Function Keys equated to JQP commands

- PF1(Help) Displays help information for the screen.  
Column level help is available. Place the cursor in any position under the column and press the HELP PFkey to display the help page with the information for the column.
- PF3 (End) Returns to the JQPFDISL screen.
- PF7 (Backward) Displays the previous page of print transform members.
- PF8 (Forward) Displays the next page of print transform members.
- PF2 (Refresh) Rebuilds all pages of print transform members and displays the first page.

#### 4.4.8.1 JQP Menu System – Print Transform Member Select

Entering an “S” in the Line Command column next to a print transform member displays the JQPFDI XM screen (below) showing all information about the print transform member.

```

JQPFDI XM          JES QUEUE FOR PRINTERS                               Mode: Update
====>

Member =====> DLM0
Description =====> Postscript Testing
PDL =====> 2 (1=PCL, 2=PS)

_ Input Settings
_ Input Settings for Line Data
_ Output Settings for PCL
_ Output Settings for Postscript
_ Output Options
_ Advanced Settings

Commands: S=Select                                     Press ENTER to update
PF1-HELP  PF3-END  PF2-DISPLAY

```

<u>Field</u>	<u>Explanation</u>
Member	One to eight byte name assigned to the print transform member. This field is required.
Description	Optional one to thirty-two character description for the print transform member.
PDL	Output print data stream Page Description Language. This field is required. To change the PDL option, over-key the current value and press the ENTER key. 1=PCL                transform the output print data stream into PCL. 2=PS                transform the output print data stream into Postscript.

#### **Line Commands**

(S)elect To display the configuration settings for the print transform member, type an "S" in the Line Column next to the desired configuration setting and press the ENTER key.

**Warning: When any of the configuration settings are selected, any current screen changes are ignored.**

**Note: "Input Settings for Line Data" is not implemented yet.**

#### **Program Function Keys equated to JQP commands**

PF1(Help)	Displays help information for the screen. Field level help is available. Place the cursor in any position within field and press the HELP PFkey to display the help page with the information for the field.
PF2(Display/Update)	Toggles between "Display Mode" and "Update Mode".
PF3 (End)	Ignores any changes made to the print transform member and returns to the JQPFDIPT screen.
ENTER	Validates and updates the changes made to the print transform member.

### 4.4.8.1.1 JQP Menu System – Print Transform Member Input Settings

Entering an “S” in the Line Command column next to Input Settings displays the JQPFDIM1 screen (below) showing all information about the print transform member input settings.

```

JQPFDIM1      JES QUEUE FOR PRINTERS                               Mode: Update
====> _____

Member =====> DLM0
Description =====> Postscript Testing

Character Set(s)=> _____
CodePage(s) =====> _____
Font(s) =====> _____
FormDef =====> F1IBM
PageDef =====> P1P06362
Use TRC =====> 0          (0=No, 1=Yes)

Commands:                                     Press ENTER to update
PF1-HELP  PF3-END  PF2-DISPLAY
  
```

<u>Field</u>	<u>Explanation</u>
Member	One to eight byte name assigned to the print transform member. This field is required.
Description	Optional one to thirty-two character description for the print transform member.
Character Set(s)	This Character Set is used if a mapping was not specified in the AFP file or if the character set is not found in the resource directory. Specify any character set found in the resource directory. <b>When this value is specified, the default code page should also be specified.</b>
CodePage(s)	This Code Page is used if none was specified in the input AFP file or if the code page is not found in the resource directory. Specify any code page found in the resource directory. <b>This value should be specified if Character Set is specified.</b>
<p>Note: For AFP reports, only one Character Set and Code page combination can be specified. For AFP Line Data or 1403 Line Data, one to four Character Set and Code Page combinations can be specified. The combinations must be specified in order from one to four with no missing combination.</p>	
Font(s)	This Coded Font is used if none is specified in the input AFP file or if the coded font is not found in the resource directory. Specify any coded font found in the resource directory. <b>For AFP reports, only one Font can be specified.</b> <b>For AFP Line Data or 1403 Line Data, one to four Fonts can be specified.</b> <b>The Fonts must be specified in order from one to four with no missing FONT.</b> Note: The OUTPUT JCL CHAR parameter overrides this parameter.
FormDef	Specifies the Form Definition resource to use. Specify any Form Definition found in the resource directory. <b>This only applies to AFP line data print streams.</b> Note: The OUTPUT JCL FORMDEF parameter overrides this parameter.
PageDef	Specifies the Page Definition resource to use. Specify any Page Definition found in the resource directory. <b>This only applies to AFP line data print streams.</b> Note: The OUTPUT JCL PAGEDEF parameter overrides this parameter.

Use TRC                      Use Table Reference Character (or font index) in the print record. This index is usually found on the second byte of the current record.  
0=No                      Do not use the TRC in the print record.  
1 = Yes                      Use the TRC in the print record.  
**This only applies to AFP line data print streams.**  
Note: The OUTPUT JCL TRC parameter overrides this parameter.

***Program Function Keys equated to JQP commands***

PF1(Help)                      Displays help information for the screen.  
Field level help is available. Place the cursor in any position within field and press the HELP PFkey to display the help page with the information for the field.  
PF2(Display/Update)              Toggles between "Display Mode" and "Update Mode".  
PF3 (End)                      Ignores any changes made to the print transform member and returns to the JQPFDIXM screen.  
ENTER                      Validates and updates the changes made to the print transform member.

#### 4.4.8.1.2 JQP Menu System – Print Transform Member Input Settings for Line Data

Entering an “S” in the Line Command column next to Input Settings for Line Data displays the JQPFDIM6 screen (below) showing all information about the print transform member input settings for line data.

**Note: "Input Settings for Line Data" is not implemented yet.**

```

JQPFDIM6      JES QUEUE FOR PRINTERS                               Mode: Update
====> _____

Member =====> DLM0
Description =====> Postscript Testing

FCB Name =====> _____
Overlay Name =====> _____
Font #1 =====> 000 0 0 00
Font #2 =====> 000 0 0 00
Font #3 =====> 000 0 0 00
Font #4 =====> 000 0 0 00
Lines Per Page ==> 000
Use TRC =====> 0          (0=No, 1=Yes)

Commands:                                                    Press ENTER to update
PF1-HELP  PF3-END  PF2-DISPLAY
  
```

<u>Field</u>	<u>Explanation</u>
Member	One to eight byte name assigned to the print transform member. This field is required.
Description	Optional one to thirty-two character description for the print transform member.
FCB Name	The name of the FCB image. <b>This feature is not currently implemented.</b> Note: The OUTPUT JCL FCB parameter overrides this parameter.
Overlay Name	The name of the AFP Form/Overlay resource file found in the resource directory. <b>This feature is not currently implemented.</b> Note: The OUTPUT JCL OVERLAYF parameter overrides this parameter.
Font #1 to Font #4	Font Information <b>This feature is not currently implemented.</b>  Field one is the font number. Specify the number of a valid true type fixed width font. Use the FONTS command to display valid font numbers.  Field two is the font BOLD control. 0 = Use non-BOLD font. 1 = Use Bold font.  Field three is the font ITALIC control. 0 = Use non-ITALIC font. 1 = Use Italic font.  Field four is the font Characters Per Inch (CPI) control. Specify a number between 1 and 20.  Field five is the font name derived from the font number.

Lines Per Page Specify the maximum number of lines per page, 1 to 200.  
**This feature is not currently implemented.**

Use TRC Use Table Reference Character (or font index) in the print record. This index is usually found on the second byte of the current record.  
0=No Do not use the TRC in the print record.  
1 = Yes Use the TRC in the print record.  
**This feature is not currently implemented.**  
Note: The OUTPUT JCL TRC parameter overrides this parameter.

***Program Function Keys equated to JQP commands***

PF1(Help) Displays help information for the screen.  
Field level help is available. Place the cursor in any position within field and press the HELP PFkey to display the help page with the information for the field.

PF2(Display/Update) Toggles between "Display Mode" and "Update Mode".

PF3 (End) Ignores any changes made to the print transform member and returns to the JQPF DIXM screen.

ENTER Validates and updates the changes made to the print transform member.

### 4.4.8.1.3 JQP Menu System – Print Transform Member Output Settings for PCL

Entering an “S” in the Line Command column next to Output Settings for PCL displays the JQPFDIM2 screen (below) showing all information about the print transform member output settings for PCL.

```

JQPFDIM2      JES QUEUE FOR PRINTERS                               Mode: Update
====> _____

Member =====> DLM0
Description =====> Postscript Testing

Duplex Mode =====> 0          (0=Off, 1=Long, 2=Short, -=Input)

Page X/Y Offset => +00000 +00000 (-22000 to +22000)
Page Size =====> 002
Fit to Page =====> 0 0.000000 0.000000 (0=No, 1=Yes/Height/Width)

Color =====> 0 0 0      (0=No, 1=Yes)
Graphic =====> 1 000 0  (Vector Fonts/Shadings/Image Compression)

Commands:                                                    Press ENTER to update
PF1-HELP  PF3-END  PF2-DISPLAY
  
```

<u>Field</u>	<u>Explanation</u>
Member	One to eight byte name assigned to the print transform member. This field is required.
Description	Optional one to thirty-two character description for the print transform member.
Duplex Mode	Output PCL can be printed on both sides of a sheet of paper. 0 = print output on one side only 1 = print output duplex using the long edge (tumble) 2 = print output duplex using the short edge (normal) - = print output duplex as specified in the input print data stream Note: The OUTPUT DUPLEX CHAR parameter overrides this parameter.

Page X/Y Offset

Page X and Y offsets, any integer value -22000 to 22000 (240 pels per inch).  
The first field is the Page X Offset. The entire page can be offset from the left side by this many pels.

**A negative Page X Offset shifts the data to the left. However, the data never shifts outside of the page. Any data shifted off the page is placed at the left margin and causes overlapping of text, shading and graphics.**

The second field is the Page Y Offset. The entire page can be offset from the top side by this many pels.

**The Output Options x/y Offset settings (Page Size, Form position, Margin) get applied to the print stream as it goes into our intermediate page. Therefore its impact is seen on all transform outputs.**

**The PCL Output x/y offsets are isolated to the PCL transform.**

**The Output Options settings have a bit more flexibility than PCL. For example you can adjust form positioning separately, leaving the dynamic data in its original position. The PCL setting moves the whole page, Form and Dynamic data.**

**The Output Options and PCL settings are interactive, but the Output Options takes precedence since it is applied as it goes into the intermediate page. The PCL settings would be applied on top of the Output Options.**

Page Size

This is the size of the output page.

- 1 = Executive (7.25" x 10.5")
- 2 = Letter (8.5" x 11")
- 3 = Legal (8.5" x 14")
- 6 = Ledger (11" x 17")
- 25 = A5 (148mm x 210mm)
- 26 = A4 (210mm x 297mm)
- 27 = A3 (297mm x 420mm)
- 45 = JIS B5 (182mm x 257mm)
- 46 = JIS B4 (250mm x 354mm)
- 71 = Hagaki Postcard (100mm x 148mm)
- 72 = Oufuku Postcard (200mm x 148mm)
- 80 = Monarch Envelope (3 7/8" x 7 1/2")
- 81 = Commercial Envelope 10 (4 1/8" x 9 1/2")
- 90 = International DL (110mm x 220mm)
- 91 = International C5 (162mm x 229mm)
- 100 = International B5 (176mm x 250mm)

Fit to Page

Scale the page size to an area defined by Fit to Page Height and Fit to Page Width.

- 0 = No
- 1 = Yes

The second field is the Fit to Page Height.  
When the first field is Yes, the page is scaled to fit this height.  
When the key is zero, the application attempts to calculate this height using the placement of forms, overlays and other objects.  
Valid values: Any number greater than zero, specified in inches.

The third field is the Fit to Page Width.  
When the first field is Yes, the page is scaled to fit this width.  
When the key is zero, the application attempts to calculate this width using the placement of forms, overlays and other objects.  
Valid values: Any number greater than zero, specified in inches.

Color Enable colored output (if input supports color).  
0 = No  
1 = Yes  
**This functionality produces a larger PCL file and performance is affected. Each output object must contain only a single color.**

The second field allows bitmaps to contain more than one color.

0 = No  
1 = Yes

**This feature results in a larger PCL file and performance is affected. This feature is not currently implemented.**

The third field is Grey Scale.

0 = No  
1 = Yes

**This feature is not currently implemented.**

Graphic This value specifies the class of vector fonts to use.

1 = Image  
2 = RLE

**Image class can be scaled well but file is larger and performance is slower. RLE class is faster and produces a smaller output file. However, this font does not scale well. When the output page is scaled DOWN, this value is set to image automatically (this usually occurs when "Fit to Page" is Yes).**

The second field specifies the shading level to use for output.

PCL supports eight discrete shading levels.

When this field is zero, the original pattern is used.

0 = Original	36 = 36 to 55%
1 = 1 to 2%	56 = 56 to 80%
3 = 3 to 10%	81 = 81 to 99%
11 = 11 to 20%	100 = 100%
21 = 21 to 35%	

The third field specifies the type of compression to use for images.

0 = None  
1 = RLE (Run Length Encoding)  
2 = TIFF  
3 = Delta  
4 = Best compression as determined by MPT.

#### ***Program Function Keys equated to JQP commands***

PF1(Help)	Displays help information for the screen. Field level help is available. Place the cursor in any position within field and press the HELP PFkey to display the help page with the information for the field.
PF2(Display/Update)	Toggles between "Display Mode" and "Update Mode".
PF3 (End)	Ignores any changes made to the print transform member and returns to the JQPFIXM screen.
ENTER	Validates and updates the changes made to the print transform member.

#### 4.4.8.1.4 JQP Menu System – Print Transform Member Output Settings for Postscript

Entering an “S” in the Line Command column next to Output Settings for Postscript displays the JQPFDIM3 screen (below) showing all information about the print transform member output settings for Postscript.

```

JQPFDIM3      JES QUEUE FOR PRINTERS                               Mode: Update
====> _____

Member =====> DLM0
Description =====> Postscript Testing

Duplex Mode =====> 0          (0=Off, 1=Long, 2=Short, -=Input)
Enable DSC =====> 0          (0=No, 1=Yes)

Commands:                                           Press ENTER to update
PF1-HELP  PF3-END  PF2-DISPLAY
  
```

<u>Field</u>	<u>Explanation</u>
Member	One to eight byte name assigned to the print transform member. This field is required.
Description	Optional one to thirty-two character description for the print transform member.
Duplex Mode	Output Postscript can print on both sides of a sheet of paper. 0 = print output on one side only 1 = print output duplex using the long edge (tumble) 2 = print output duplex using the short edge (normal) - = print output duplex as specified in the input print data stream Note: The OUTPUT JCL DUPLEX parameter overrides this parameter.
Enable DSC	Enable DSC Comments Selecting this option adds comments to the Postscript output file. DSC (Document Structuring Convention) is an Adobe Postscript language commenting structure allowing the processing of postscript files without the processing program needing a language level knowledge of the postscript file. 0 = No 1 = Yes <b>Warning! “Enable DSC”=YES causes a postscript printer to ignore all tray map commands.</b>

***Program Function Keys equated to JQP commands***

PF1(Help)	Displays help information for the screen. Field level help is available. Place the cursor in any position within field and press the HELP PFkey to display the help page with the information for the field.
PF2(Display/Update)	Toggles between "Display Mode" and "Update Mode".
PF3 (End)	Ignores any changes made to the print transform member and returns to the JQPFDIM3 screen.
ENTER	Validates and updates the changes made to the print transform member.

### 4.4.8.1.5 JQP Menu System – Print Transform Member Output Options

Entering an “S” in the Line Command column next to Output Options displays the JQPFDIM4 screen (below) showing all information about the print transform member output options.

```

JQPFDIM4      JES QUEUE FOR PRINTERS                               Mode: Update
====> _____

Member =====> DLM0
Description =====> Postscript Testing

Start Page =====> 0000000
Stop Page =====> 0000000

Auto Rotate =====> 0          (0=No, 1=Yes)
Rotation =====> 000          (0, 90, 180, 270)

Page Size Height=> 00000        (0 to 22000)
Page Size Width => 00000        (0 to 22000)

Page X Offset ====> +00000      (-22000 to +22000)
Page Y Offset ====> +00000      (-22000 to +22000)
Form X Offset ====> +00000      (-22000 to +22000)
Form Y Offset ====> +00000      (-22000 to +22000)

Commands:
PF1-HELP  PF3-END  PF2-DISPLAY                                     Press ENTER to update
  
```

<u>Field</u>	<u>Explanation</u>
Member	One to eight byte name assigned to the print transform member. This field is required.
Description	Optional one to thirty-two character description for the print transform member.
Start Page	This is the page number where the conversion begins. When this value is set to zero, the conversion starts at page 1. When the value specified is greater than the number of pages in the input data stream, no pages are converted.
Stop Page	This is the page number where the conversion stops. Conversion stops if the stop page value is reached or the end of the input print stream is reached. This value is ignored when set to zero.  <b>To start the output at the beginning of the file, set Start Page to zero.</b> <b>To output all pages, set both Start Page and Stop Page to zero.</b> <b>To output a range within the report, enter the required numbers into the Start Page and Stop Page.</b> <b>When Stop Page is greater than zero, Start Page must be less than or equal to Stop Page.</b>
Auto Rotate	The application determines the direction each page should be oriented and changes the rotation accordingly. All text on the page is sampled for orientation. The page is rotated in the same direction as the majority of the text. 0 = No 1 = Yes <b>When Yes, Rotation is ignored.</b>
Rotation	All the pages in the output document(s) are rotated by this value. Specify 0, 90, 180 or 270 degrees. <b>When Auto Rotate is Yes, this parameter is ignored.</b>

Page Size Height	The page height in pels. This should be more than actual content height. Otherwise, the content is truncated. Specify any integer value 0 to 22000 (240 pels per inch).
------------------	---

Page Size Width	The page width in pels. This should be more than actual content width. Otherwise, the content is truncated. Specify any integer value 0 to 22000 (240 pels per inch).
-----------------	---

**Normally, set the Page Size Width and Page Size Height to zero to use the original AFP dimensions. The Page Size Width and Height are used on input only for creating the transformed page. AFP does not always contain the correct media dimensions in the FORMDEF, set these parameters to override the AFP dimensions.**

Page X Offset	This is the number of pels to shift the page right relative to the left edge of the page. Specify any integer value -22000 to +22000 (240 pels per inch). For PCL transforms, a negative Page X Offset shifts the data to the left. However, the data never shifts outside of the page. Any data shifted off the page is placed at the left margin and causes overlapping of text, shading and graphics.
---------------	--

Page Y Offset	This is the number of pels to shift the page down relative to the top edge of the page. Specify any integer value -22000 to +22000 (240 pels per inch).
---------------	---

Form X Offset	The number of pels to shift right from the left side of the page. Specify any integer value -22000 to +22000 (240 pels per inch).
---------------	---

Form Y Offset	The number of pels to shift down any from the top of the page. Specify any integer value -22000 to +22000 (240 pels per inch).
---------------	--

**The Output Options x/y Offset settings (Page Size, Form position, Margin) get applied to the print stream as it goes into our intermediate page. Therefore its impact is seen on all transform outputs.**

**The PCL Output x/y offsets are isolated to the PCL transform.**

**The Output Options settings have a bit more flexibility than PCL. For example you can adjust form positioning separately, leaving the dynamic data in its original position. The PCL setting moves the whole page, Form and Dynamic data.**

**The Output Options and PCL settings are interactive, but the Output Options takes precedence since it is applied as it goes into the intermediate page. The PCL settings would be applied on top of the Output Options.**

#### ***Program Function Keys equated to JQP commands***

PF1(Help)	Displays help information for the screen. Field level help is available. Place the cursor in any position within field and press the HELP PFkey to display the help page with the information for the field.
PF2(Display/Update)	Toggles between "Display Mode" and "Update Mode".
PF3 (End)	Ignores any changes made to the print transform member and returns to the JQPFDIXM screen.
ENTER	Validates and updates the changes made to the print transform member.

#### 4.4.8.1.6 JQP Menu System – Print Transform Member Advanced Settings

Entering an “S” in the Line Command column next to Output Options displays the JQPFDIM5 screen (below) showing all information about the print transform member advanced settings.

```

JQPFDIM5      JES QUEUE FOR PRINTERS                               Mode: Update
====> _____

Member =====> DLM0
Description =====> Postscript Testing

Debug Level =====> 3          (0, 1, 2, 3)
Stop On Missing => 1          (0=No, 1=Yes)
Tray Map Name ===> $TMPS001
Switch(s) =====> 10000000  00000000
Resource Group ==> -          (blank, 0, 1, 2, 3)
Font Sub Member => _____

Commands:                                     Press ENTER to update
PF1-HELP  PF3-END  PF2-DISPLAY

```

<u>Field</u>	<u>Explanation</u>
Member	One to eight byte name assigned to the print transform member. This field is required.
Description	Optional one to thirty-two character description for the print transform member.
Debug Level	This is the level of information written to the Log File. 0 = Error Level, logs only Error messages. 1 = Warning Level, logs both Error and Warning messages. 2 = Info Level, logs Error, Warning and some informational messages. 3 = Diagnostic Level, increases the detailed level of informational messages.
Stop On Missing	Specify the Stop On Missing Resources option. 0 = No     The application writes a message on the log for each missing AFP resource and attempts to continue without the AFP resource. 1 = Yes    The application stops processing when an AFP resource is not found or cannot be converted.
Tray Map Name	This is the tray map name defined in MPT for this transform. The tray map name has the following syntax: Bytes 1-4 = \$TMP Bytes 5 = C for PCL, S for Postscript Bytes 6-8 = Any valid non-blank character To remove the tray map name, key all spaces in the field. <b>Note: The tray map name must be eight bytes in length.</b> <b>Warning! “Enable DSC”=YES causes a postscript printer to ignore all tray map commands.</b>

Switch(s) Two sets of eight special printing switches.  
Specify "1" to enable the switch and "0" to disable the switch.  
The switches are numbered left to right.

First set of eight special printing switches.  
Switch 1: MPT forces top of form for each JES data set within the report.  
Switch 2: MPT processes reports with Page Mode Data (Mixed Document) as AFPLinedata rather than AFP.  
**This switch is disabled when Control Table MPTFLAG(2) is on.**  
Switch 3: Unused  
Switch 4: Unused  
Switch 5: Unused  
Switch 6: Unused  
Switch 7: Unused  
Switch 8: Unused

Second set of eight special printing switches.

Switch 1: Unused  
Switch 2: Unused  
Switch 3: Unused  
Switch 4: Unused  
Switch 5: Unused  
Switch 6: Unused  
Switch 7: Unused  
Switch 8: Unused

Resource Group Specifies the MPT resource group to use. This number corresponds with the suffix added to the resource DD names in the MPT JCL. A resource group is a group of DD names in the MPT JCL containing AFP resource libraries to use during a transformation. Specify blank to use the MPTGRP parameter in the Control Table JQPFDFCT. Specify 0, 1, 2 or 3.

Font Sub Member The font substitution member name used for the transformation.  
The font substitution member name has the following syntax:  
Bytes 1-3 = \$FS  
Bytes 4-8 = Any valid non-blank characters.  
Note: The font substitution member name must be eight bytes in length.

***Program Function Keys equated to JQP commands***

PF1(Help) Displays help information for the screen.  
Field level help is available. Place the cursor in any position within field and press the HELP PFkey to display the help page with the information for the field.

PF2(Display/Update) Toggles between "Display Mode" and "Update Mode".

PF3 (End) Ignores any changes made to the print transform member and returns to the JQPFDFCT screen.

ENTER Validates and updates the changes made to the print transform member.

#### 4.4.8.2 JQP Menu System – Print Transform Member Delete

Entering a “D” in the Line Command column next to a print transform member displays the JQPF DIXM screen (below) showing the delete confirmation message for the print transform member.

```
JQPF DIXM          JES QUEUE FOR PRINTERS                               Mode: Delete
====>
JQPGMENU02 ** PRESS ENTER TO CONFIRM DELETE, PF3 TO CANCEL **

Member =====> DLM0
Description =====> Postscript Testing
PDL =====> 2          (1=PCL, 2=PS)

  Input Settings
  Input Settings for Line Data
  Output Settings for PCL
  Output Settings for Postscript
  Output Options
  Advanced Settings

Commands: S=Select                               Press ENTER to update
PF1-HELP  PF3-END  PF2-DISPLAY
```

#### *Program Function Keys equated to JQP commands*

- PF1(Help)        Displays help information for the screen.  
Field level help is available. Place the cursor in any position within field and press the HELP PFkey to display the help page with the information for the field.
- PF3 (Cancel)    Cancels the delete request and returns to the JQPF DIPT screen.
- ENTER           Confirms the delete request, deletes the print transform member and returns to the JQPF DIPT screen.

### 4.4.8.3 JQP Menu System – Print Transform Member Add

Entering an “A” in the Line Command column next to a print transform member displays the JQPFIDIXM screen (below). This screen shows all the information for the new print transform member.

```
JQPFIDIXM      JES QUEUE FOR PRINTERS                               Mode: Add
====> _____

Member =====> _____
Description =====> _____
PDL =====> 2          (1=PCL, 2=PS)

  Input Settings
  Input Settings for Line Data
  Output Settings for PCL
  Output Settings for Postscript
  Output Options
  Advanced Settings

Commands: S=Select                                     Press ENTER to update
PF1-HELP  PF3-END  PF2-DISPLAY
```

For a description of each field on the screen above, reference section [4.4.8.1 JQP Menu System – Print Transform Member Select](#).

#### ***Program Function Keys equated to JQP commands***

- |           |  |
|-----------|--|
| PF1(Help) | Displays help information for the screen.<br>Field level help is available. Place the cursor in any position within field and press the HELP PFkey to display the help page with the information for the field.                                  |
| PF3 (End) | Ignores any changes made to the print transform member and returns to the JQPFIDIPT screen.  |
| ENTER     | Validates and adds the print transform member then redisplay the JQPFIDIXM screen ready to add the next print transform member. When there are no more print transform members to add, press the PF3(END) key to return to the JQPFIDIPT screen. |

## 4.4.12 Export Definitions

Entering the number twelve in the command line field on the JQPFDISL screen displays the JQPFDIAX screen (below). This screen provides access to the JQP Export Definitions feature.

```

JQPFDIPO      JES QUEUE FOR PRINTERS
====> _____

Data Set Name => _____
Member ==> _____
Filter ==> _____

Key any non-blank character below for each record type to be exported.
- All Definitions
- Destinations
- VTAM Printers
- TCP/IP Printers
- VTAM Terminals
- Users
- Print Transform Members

PF1-HELP  PF3-END

```

JQP commands keyed in the Command Line field are processed first. Next, JQP commands equated to a PFkey. Finally, screen input is processed.

<u>Field</u>	<u>Explanation</u>
Data Set Name	Use this PDS data set for exported JQP definition records. A fully qualified data set name is required without quotation marks. The PDS data set must be RECFM=V VB with LRECL=516. This field is required. <b>If the PDS data set does not exist, it is dynamically created.</b>
Member	This is the PDS member written to the data set containing the exported JQP definition records. This field is required. <b>Warning: Any existing member is over written.</b>
Filter	Use this filter to limit the JQP definition records to export. Use an "*" in any position of the filter to export all JQP definition records matching the generic mask. This field is required.
All Definitions	Key any non-blank character to export ALL the JQP definition records matching the FILTER.
Destinations	Key any non-blank character to export the JQP destination records matching the FILTER.
VTAM Printers	Key any non-blank character to export the JQP VTAM printer records matching the FILTER.
TCP/IP Printers	Key any non-blank character to export the JQP TCP/IP printer records matching the FILTER.
VTAM Terminals	Key any non-blank character to export the JQP VTAM terminal records matching the FILTER.

Users Key any non-blank character to export the JQP user records matching the FILTER.

Print Transform Members Key any non-blank character to export the JQP print transform member records matching the FILTER.

***Program Function Keys equated to JQP commands***

PF1(Help) Displays help information for the screen.  
Field level help is available. Place the cursor in any position within field and press the HELP PFkey to display the help page with the information for the field.

PF3 (End) Returns to the JQPFDISL screen.

## 4.4.13 Import Definitions

Entering the number thirteen in the command line field on the JQPFDISL screen displays the JQPFDIAY screen (below). This screen provides access to the JQP Export Definitions feature.

```
JQPFDIAY      JES QUEUE FOR PRINTERS
====> _____

Data Set Name => _____
Member ==> _____
Filter ==> _____
Replace ==> _

Key any non-blank character below for each record type to be imported.
_ All Definitions
_ Destinations
_ VTAM Printers
_ TCP/IP Printers
_ VTAM Terminals
_ Users
_ Print Transform Members

PF1-HELP  PF3-END
```

JQP commands keyed in the Command Line field are processed first. Next, JQP commands equated to a PFkey. Finally, screen input is processed.

<u>Field</u>	<u>Explanation</u>
Data Set Name	PDS data set name containing the JQP definition records to import. The PDS data set must be RECFM=V VB with LRECL=516. This field is required.
Member	This is the PDS member read from the data set containing the imported JQP definition records. This field is required. <b>Warning: Any existing JQP definitions are over written.</b>
Filter	Use this filter to limit the JQP definition records to import. Use an "*" in any position of the filter to import all JQP definition records matching the generic mask. This field is required.
Replace	This option determines whether existing JQP definitions are replaced with the imported definition. Any non-blank character replaces the existing JQP definition with the imported definition. A blank character does not replace existing JQP definitions with the imported definition.
All Definitions	Key any non-blank character to import ALL the JQP definition records matching the FILTER.
Destinations	Key any non-blank character to import the JQP destination records matching the FILTER.
VTAM Printers	Key any non-blank character to import the JQP VTAM printer records matching the FILTER.

TCP/IP Printers	Key any non-blank character to import the JQP TCP/IP printer records matching the FILTER.
VTAM Terminals	Key any non-blank character to import the JQP VTAM terminal records matching the FILTER.
Users	Key any non-blank character to import the JQP user records matching the FILTER.
Print Transform Members	Key any non-blank character to import the JQP print transform member records matching the FILTER.

***Program Function Keys equated to JQP commands***

PF1(Help)	Displays help information for the screen. Field level help is available. Place the cursor in any position within field and press the HELP PFkey to display the help page with the information for the field.
PF3 (End)	Returns to the JQPFDISL screen.

#### 4.4.16 JQP Menu System – Keys

Entering the number 16 in the command line field on the JQPFDISL screen displays the commands associated with the user's PA/PF keys. Reference the [KEYS](#) command.

#### 4.4.17 JQP Menu System – LibraryH

Entering the number 17 in the command line field on the JQPFDISL screen displays all printer groups defined to JQP. Reference Section the [LIBRARYH](#) command.

#### 4.4.18 JQP Menu System – LibraryM

Entering the number 18 in the command line field on the JQPFDISL screen displays the logon macro groups defined to JQP. Reference the [LIBRARYM](#) command.

#### 4.4.19 JQP Menu System – LibraryP

Entering the number 19 in the command line field on the JQPFDISL screen displays the physical terminals and printers defined to JQP. Reference the [LIBRARYP](#) command.

#### 4.4.20 JQP Menu System – LibraryQ

Entering the number 20 in the command line field on the JQPFDISL screen displays the reports in the JQP Print Work Queue. Reference Section the [LIBRARYQ](#) command.

#### 4.4.21 JQP Menu System – LibraryS

Entering the number 21 in the command line field on the JQPFDISL screen displays the destinations defined to JQP. Reference Section the [LIBRARYS](#) command.

#### 4.4.22 JQP Menu System – LibraryT

Entering the number 22 in the command line field on the JQPFDISL screen displays a snapshot of currently active tasks in JQP. Reference the [LIBRARYT](#) command.

#### 4.4.23 JQP Menu System – LibraryU

Entering the number 23 in the command line field on the JQPFDISL screen displays the users defined to JQP. Reference Section the [LIBRARYU](#) command.

#### 4.4.24 JQP Menu System – LibPX

Entering the number 24 in the command line field on the JQPFDISL screen displays all the information associated with a physical terminal. Reference the [LIBPX](#) command.

#### 4.4.25 JQP Menu System – LibQX

Entering the number 25 in the command line field on the JQPFDISL screen displays all the information associated with a Print Work Queue entry. Reference the [LIBQX](#) command.

#### 4.4.26 JQP Menu System – Show

Entering the number 26 in the command line field on the JQPFDISL screen displays JQP control variables. Reference the [SHOW](#) command.

#### 4.4.27 JQP Menu System – LibraryC

Entering the number 27 in the command line field on the JQPFDISL screen displays JQP commands and security. Reference the [LIBRARYC](#) command.

#### **4.4.28 JQP Menu System – LibraryF**

Entering the number 28 in the command line field on the JQPFDISL screen displays JQP LPD control file. Reference the [LIBRARYF](#) command.

#### **4.4.29 JQP Menu System – Email**

Entering the number 29 in the command line field on the JQPFDISL screen displays JQP email notification status. Reference the [EMAIL](#) command.

#### **4.4.30 JQP Menu System – LibraryR**

Entering the number 30 in the command line field on the JQPFDISL screen displays the JQP automatic restart table for failed reports. Reference the [LIBRARYR](#) command.

#### **4.4.31 JQP Menu System – LibraryJ**

Entering the number 31 in the command line field on the JQPFDISL screen displays the JQP Email job name table to limit email notification. Reference the [LIBRARYJ](#) command.

#### **4.4.32 JQP Menu System – LibraryX**

Entering the number 32 in the command line field on the JQPFDISL screen displays the MacKinney Print Transform (MPT) Transform Work Queue. Reference the [LIBRARYX](#) command.

## 4.5 Filtering

Filtering is available for destinations, printers, users and the print work queue entries. Filtering controls the JQP definitions displayed to the user. Eight filters are provided.

After entering the FILTER command on the JQPFIDDS destination menu screen, the following screen displays.

```

JQPFIDFL          MACKINNEY SYSTEMS
===> _____

AND/OR Fields ==> 1 (1=AND, 0=OR)

  FIELD                OP  VALUE (may include *)      FILTER FIELD(S)
  _____          _____  _____
0                _____  _____          1. CLASS
0                _____  _____          2. CPI
0                _____  _____          3. DBCS
0                _____  _____          4. DBCS SOSI DISP
0                _____  _____          5. DBCS SHIFT-IN
0                _____  _____          6. DBCS SHIFT-OUT
0                _____  _____          7. DBCS TRT NAME*
0                _____  _____          8. DESCRIPTION*
0                _____  _____          9. DEST SELECTION*
0                _____  _____         10. DESTINATION*
0                _____  _____          11. FCB
0                _____  _____          12. FLAGS
0                _____  _____          13. FLAG (1)
0                _____  _____          14. FLAG (2)
0                _____  _____          15. FLAG (3)

PF1-HELP  PF3-END  PF7-BACKWARD  PF8-FORWARD
  
```

### Notes

- The VALUE field is limited to 24 bytes. Obviously, this limitation affects all JQP definition fields greater than 24 bytes.
- No editing is performed on the VALUE field in relation to the FILTER field. An illogical VALUE results in a mismatch. For example, no editing is performed to verify the VALUE field contains a number for a numeric JQP definition field. When filtering is performed, the illogical VALUE causes a mismatch for all JQP definitions and no definitions are returned.
- The Filter Field(s) column items ending with an "\*" indicate wildcard processing is available.
- Special processing for the destination CLASS field. Only operators EQ and NE apply. Enter up to eight classes into the VALUE field. When all classes specified in the VALUE field are within the destination CLASS field, this generates an EQ condition. When all classes specified in the VALUE field are not within the destination CLASS field, this generates a NE condition.
- No filter support is available for Masked or Dynamic users.

<u>Field</u>	<u>Explanation</u>
AND/OR FIELDS	Determines the relationship between multiple filters. Specify AND to allow the JQP definition to pass filtering when all filters used are true. Specify NO to allow the JQP definition to pass filtering when any filter used is true.
FIELD NUMBER	Specify the number assigned to the JQP definition field. This number displays in the FILTER FIELD(S) column. <b>To delete a filter, specify zero or spaces.</b>
FIELD DESCRIPTION	Displays the JQP definition field used for the filter. The field description automatically updates when the FIELD NUMBER is changed.
OP (operator)	Specify the conditional operator for the filter EQ - Equal NE - Not Equal GT - Greater Than GE - Greater Than or Equal LT - Less Than LE - Less Than or Equal
VALUE	Specify the value for the filter. Use this value to compare against the JQP definition field.
FILTER FIELD(S)	This contains all the available JQP definition fields to use in the filter. Each JQP definition field is assigned a number. This number is used in the FIELD NUMBER field for the filter. This area is pagable.

***Program Function Keys equated to JQP commands***

PF1(Help)	Displays help information for the screen. Field level help is available. Place the cursor in any position within field and press the HELP PFkey to display the help page with the information for the field.
PF3 (End)	Ignores any changes made to the filter and returns to the previous JQP definition screen.
PF7 (Backward)	Displays the previous page of available filter fields.
PF8 (Forward)	Displays the next page of available filter fields.
ENTER	Validates and updates the changes made to the filter.

## Section V

### JQP Commands

#### 5.1 Commands

JQP operations are accomplished by issuing commands. A command is followed by any appropriate operands. It is issued in one of three ways:

- Enter the command on the command line.
- Press a PF or PA key assigned to the command.
- Include the command in the logon macro. When the user logs on, commands in the logon macro are issued one by one.

Where operand(s) must be entered with a command, the following conventions apply:

- At least one blank must follow the command.
- Operands are separated from each other by a single comma or by one or more blanks.
- When an operand contains a blank or a comma, the entire operand must be enclosed in apostrophes ('). Alternatively, use the double quote character (").
- When an operand contains an apostrophe ('), the entire operand must be enclosed in double quote characters (").
- When an operand contains a double quote character ("), the entire operand must be enclosed in apostrophes (').

The symbols [ ] and | are used to show the operands for the commands as clearly as possible. DO NOT USE THESE SYMBOLS IN YOUR SPECIFICATIONS. They act only to indicate how a command can be written.

[ ] Indicates optional operands. Specify the operand enclosed in the brackets if the associated option is desired. When more than one item is enclosed within brackets, for example  
TRACE termid, [SHORT|FULL|OFF]  
specify either one or none.

| indicates a choice must be made between the operands separated by this symbol.

Underlining indicates the default value for an operand.

## 5.2 Command Table

This table lists all JQP commands and a brief description of their functions. The pages following provide a comprehensive description of each command.

<b>Command</b>	<b>Console</b>	<b>Function</b>
<a href="#">BACK</a>	No	Display the previous screen (In LIBRARYx command)
<a href="#">BOTTOM</a>	No	Display last screen (In LIBRARYx command)
<a href="#">CHANGE</a>	Yes	Change records on the JQP VSAM file.
<a href="#">CONNECT</a>	Yes	Reestablish the link between JQP and VTAM.
<a href="#">DELETE</a>	Yes	Delete records from the JQP VSAM file.
<a href="#">DISCONN</a>	Yes	Sever the link between JQP and VTAM.
<a href="#">DRAIN</a>	Yes	Stop the destination from selecting reports in the JES queue
<a href="#">EMAIL</a>	Yes	Display and control the email notification feature.
<a href="#">END</a>	No	End a display
<a href="#">EXEC</a>	Yes	Execute JQP commands in a JQP source member.
<a href="#">FILTER</a>	No	Display filters used to limit the JQP definitions.
<a href="#">FIND</a>	No	Find an entry within a list
<a href="#">FONTS</a>	Yes	Display all fonts defined to JQP for line data print transforms.
<a href="#">FORWARD</a>	No	Display next screen (In LIBRARYx command)
<a href="#">HALT</a>	Yes	Halt a report currently printing on a printer
<a href="#">HELP</a>	No	Display all valid commands for this user and their functions
<a href="#">IPP</a>	Yes	Internet Printing Protocol (IPP) attribute command
<a href="#">KEYS</a>	No	Display commands currently associated with the user's PA/PF keys
<a href="#">LEFT</a>	No	For JQP displays with more than 80 columns of information, displays the left section of information.
<a href="#">LIBRARYC</a>	Yes	List all commands defined to JQP.
<a href="#">LIBRARYF</a>	Yes	Display all LPD control file groups defined to JQP.
<a href="#">LIBRARYH</a>	Yes	List all printer groups defined to JQP
<a href="#">LIBRARYJ</a>	Yes	Display the email job name table.
<a href="#">LIBRARYM</a>	Yes	List all LOGON macro groups defined to JQP.
<a href="#">LIBRARYP</a>	Yes	List all physical terminals and printers defined to JQP.
<a href="#">LIBRARYQ</a>	Yes	Display all printers and destinations defined to JQP
<a href="#">LIBRARYR</a>	Yes	Display the failed status automatic restart table.
<a href="#">LIBRARYS</a>	Yes	Display all destinations defined to JQP
<a href="#">LIBRARYT</a>	Yes	Display a snapshot of currently active tasks in JQP
<a href="#">LIBRARYU</a>	Yes	List all users defined to JQP.
<a href="#">LIBRARYX</a>	Yes	Display the MacKinney Print Transform (MPT) Transform Work Queue.
<a href="#">LIBPX</a>	Yes	Display all information associated with a physical terminal
<a href="#">LIBOX</a>	Yes	Display all information associated with a Print Work Queue entry
<a href="#">LOGOFF</a>	No	Logoff JQP

<b>Command</b>	<b>Console</b>	<b>Function</b>
<a href="#">LOGON</a>	No	Logon to another or same JQP user-id
<a href="#">MENU</a>	No	Display all TCP/IP printers defined to JQP
<a href="#">MENUM</a>	No	Display all print transform members defined to JQP.
<a href="#">MENUQ</a>	No	Display all printer and destinations defined to JQP
<a href="#">MENS</a>	No	Display all destinations defined to JQP
<a href="#">MENUT</a>	No	Display all VTAM terminals defined to JQP
<a href="#">MENUU</a>	No	Display all users defined JQP
<a href="#">MENV</a>	No	Display all VTAM printers defined to JQP
<a href="#">MENUX</a>	No	Export JQP definitions to PDS member
<a href="#">MENUY</a>	No	Import JQP definitions from PDS member
<a href="#">MIGRATE</a>	Yes	Migrate JQP tables to VSAM file
<a href="#">MOUNT</a>	Yes	Mount a form on a printer
<a href="#">MPT</a>	Yes	Interface to the MacKinney Print Transform (MPT) product.
<a href="#">NEWCOPY</a>	Yes	Immediately load a new copy of a JQP table
<a href="#">PING</a>	Yes	Sends the TCP/IP echo command to the printer.
<a href="#">PJM</a>	Yes	Printer Job Language (PJM) INFO command
<a href="#">PRINT</a>	Yes	Start the printing procedure for a JQP printer
<a href="#">PURGE</a>	Yes	Purges or logs off a user from JQP.
<a href="#">REFRESH</a>	No	Refresh the current JQP display.
<a href="#">RESTART</a>	Yes	Restart printing for halted or failed reports
<a href="#">RESTARTJ</a>	Yes	Restart printing for halted or failed reports using PJM command
<a href="#">RESTARTP</a>	Yes	Restart printing at a specific page for halted or failed reports
<a href="#">RETRIEVE</a>	No	Retrieves the last command entered and places it in the command field.
<a href="#">RIGHT</a>	No	For JQP displays with more than 80 columns of information, displays the right section of information.
<a href="#">RIPPLE</a>	Yes	Send a ripple pattern to the printer.
<a href="#">SEGMENT</a>	Yes	Segment the JQPLOG data set
<a href="#">SET</a>	No	Assign a command to a specified PF/PA key
<a href="#">SHOW</a>	Yes	Display JQP control variables and high water marks
<a href="#">SHUT</a>	Yes	Shutdown JQP
<a href="#">START</a>	Yes	Start the availability of JQP to use a printer or destination
<a href="#">STATS</a>	Yes	Display printing statistics.
<a href="#">STOP</a>	Yes	Stop the availability of JQP to use a printer
<a href="#">TCP</a>	Yes	Cancel a TCP call in progress
<a href="#">TIME</a>	Yes	Initiate or terminate TIME facility dynamically
<a href="#">TOP</a>	No	Display the first screen (In LIBRARYx command)
<a href="#">TRACE</a>	Yes	Trace data flow through JQP
<a href="#">UPDATE</a>	No	Toggles between "Display Mode" and "Update Mode".

## BACK

BACK scrolls backward through a display screen created by a command such as LIBRARYQ.

BACK may also be entered as BA or BACKWARD.

BACK has one operand.

BACK [#|M|H]

#	Specify the number of lines to page backward. When this operand is omitted, the number of lines paged backward is one full page.
M	Specifies maximum backward scrolling or position the display starting with the first line.
H	Specifies scrolling backward a half screen.

BACK is typically assigned to a PF key to facilitate scrolling.

NOTE: When the BACK command is assigned to a PFkey as BA, BACK or BACKWARD, enter a number in the command line as the number of lines to page backward, the letter H to indicate half screen to page backward or the letter M to page to first page of the display. Then press the assigned PFkey to page backward.

### Example(s)

Page backward one full JQP display screen:

====> BACK

Page backward one half of a JQP display screen:

====> BACK H

Page backward to the first line of the current JQP display:

====> BACK M

## **BOTTOM**

BOTTOM displays the last screen of a display created by a command such as LIBRARYQ.

BOTTOM may also be entered as BOT or B.

BOTTOM has no operands.

### Example

Page to the bottom of the JQP display screens:

==> BOTTOM

## CHANGE

Use the CHANGE command to change records on the JQPFILE.

CHANGE may be issued from the system console.

CHANGE has four required operands:

CHANGE *record, key, field=value*

Record	Specify the record type. DST – Destination record PRT – VTAM or TCP/IP Printer record MPT – Print Transform Member record TRM – Terminal record USR – User record
Key	Specify the record key to change or use an "*" in any position of the key to change all records matching the generic mask. Generic mask is provided for DST, PRT and MPT records only. Group name starting with the character "@" for PRT records only.
field	A valid macro field to use in the table generation. Reference the <a href="#">3.4.1 JQPFDFDS Format</a> for destination records. Reference the <a href="#">3.7.1 JQPFDFPH Format</a> for printer records. Reference the <a href="#">3.11.1 JQPFDFPT Format</a> for print transform member records. Reference the <a href="#">3.7.1 JQPFDFPH Format</a> table for terminal records. Reference the <a href="#">3.9.1 JQPFDFUS Format</a> for user records.
value	A valid value for the macro field.

Note: Change commands are translated to uppercase when used on the JQP command line or through the system console. Change commands are NOT translated to uppercase when used in the JQP EXEC source member.

Note: Use the JQP manual to determine the correct syntax for the field=value parameters, but omit the beginning "(" and ending ")" parenthesis from the macro syntax. Enter a blank value as field=' '. For macro fields with multiple parameters, omit a parameter by specifying two consecutive tick marks for the parameter.

Note: Drain DST records before changing.  
Stop PRT records before changing.

Note: Messages are written to the JQPLOG to log the changes.

### Example

Change the description for destination IP01 to " TCP TEST PRINTER ONE":

```
====> CHANGE DST, IP01, DESC="TCP TEST PRINTER ONE"
```

Change the translation table for all destinations beginning with IP to JQPFTTP5:

```
====> CHANGE DST, IP*, TRT=5
```

## CONNECT

Use CONNECT command to reestablish the link between JQP and VTAM.

CONNECT may also be entered as CONN.

CONNECT has no operands.

Normally, CONNECT is only needed after a previous DISCONN. DISCONN may have been issued to allow recycling VTAM. After VTAM is back up, issue CONNECT.

**CONNECT can only be issued from the system console.**

### Example

Reestablish the link between JQP and VTAM:

```
===> CONNECT
```

## DELETE

Use the DELETE command to delete records from the JQPFILE.

DELETE may be issued from the system console.

DELETE has two required operands:

DELETE *record, key*

record	Specify the record type. DST – Destination record PRT – VTAM or TCP/IP Printer record MPT – Print Transform Member record TRM – Terminal record USR – User record
Key	Specify the record key to delete or use an “*” in any position of the key to delete all records matching the generic mask. Generic mask is provided for DST, PRT and MPT records only. Group name starting with the character “@” for PRT records only.

Note: Drain DST records before deleting.  
Drain destinations for PRT records before deleting.

Note: Messages are written to the JQPLOG to log the deletions.

### Example

Delete destination record IP01:

```
===> DELETE DST, IP01
```

Delete all destination records beginning with IP:

```
===> DELETE DST, IP*
```

## DISCONN

Use DISCONN command to sever the link between JQP and VTAM.

DISCONN may also be entered as DISC.

DISCONN has no operands.

DISCONN is useful if VTAM is recycled. Rather than shutdown JQP, simply issue the DISCONN command. After VTAM is back up, issue the CONNECT command.

DISCONN may be issued from the system console.

### Example

Sever the link between JQP and VTAM:

```
===> DISCONN
```

## DRAIN

Use the DRAIN command to stop JQP from selecting reports for the destination.

DRAIN has one required operand.

DRAIN *destination*

Destination	Specify the destination name to drain or use a '*' in any position of the destination name to drain all destinations matching the generic mask. This operand is required.
-------------	---

### Example

Drain destination IP01 defined to JQP:

```
====> DRAIN IP01
```

Drain all destinations starting with IP defined to JQP.

```
====> DRAIN IP*
```

# EMAIL

The EMAIL command displays and controls the JQP email notification feature.

The EMAIL command has the following formats:

```
EMAIL
EMAIL EXPIRE,[#|ALL]
EMAIL JQPLOG,[ START|STOP|CLEAR|SEND|UNALLOC],printer
EMAIL [ START|STOP]
EMAIL TEST, address1, address2
EMAIL TRACE
```

	Without any additional parameters, the EMAIL command displays the email notification status and email request queue.
EXPIRE	Set the email request(s) to expire. This allows JQP to delete the email request during the next email directory cycle. An email request is expired when all retry attempts complete. # The email request number to expire. ALL Expire all email requests.
JQPLOG	Controls sending the JQPLOG for the selected printer to MacKinney Systems technical support. The option is normally used to capture a JQP trace. START,printer Allocates a temporary data set to contain the JQPLOG for the selected printer. Space allocation for the temporary data set is based upon the third option of the MAILOPTS parameter in the Control Table. The temporary data set is open to receive all messages associated with the printer. The data set name format: <i>HLQ.JQPLOG.EMAIL.printer</i> where HLQ is the high level qualifier specified the Control table parameter HLQ. <b>The additional printer operand is required.</b> STOP The temporary data set is closed, but remains allocated to JQP. Any new messages for the selected printer are not written to the temporary data set. CLEAR The temporary data set is unallocated and deleted. SEND The closed temporary data set is scheduled for sending via email to MacKinney Systems technical support. The JQPLOG is sent as an attachment to the email with the file name JQPLOG.TXT. UNALLOC The temporary data set is unallocated and kept. This frees the temporary data set for use by the customer. For example, this data set could be sent to MacKinney Systems technical support via FTP.
START	Starts the email notification feature.
STOP	Stops the email notification feature.
TEST	Test the email notification feature. Address1 First email address to receive the test notification message. Address2 Second email address to receive the test notification message.
TRACE	Toggles the email notification trace on and off. The trace writes all TCP/IP activity related to the email feature to the JQPLOG DD under the JQP started task.

## EMAIL (continued)

### Example

Display the email notification status.

```
====> EMAIL
```

Sample Display:

```
JQPFDIDI      MACKINNEY SYSTEMS
====> _____

-- Top of Display --
-----
EMAIL STATUS: STARTED
EMAIL TRACE: OFF
EMAIL JQPLOG: STOPPED, PRINTER:
-----
NO.  PRINTER  JOB NAME  JOB ID  GROUP NAME          DATE      TIME
-----
00001 LP01      PAYROLL1  JOB12345 1.1.1              03/31/2008 12:00:00
-- End of Display --
```

### Example

Toggle the Email notification trace on or off.

```
====> EMAIL TRACE
```

### Example

Send the test email notification message to support@mackinney.com:

```
====> EMAIL TEST, SUPPORT@MACKINNEY.COM
```

### Example

Start the email notification feature.

```
====> EMAIL START
```

### Example

Stop the email notification feature.

```
====> EMAIL STOP
```

## EMAIL (continued)

### Example

Expire email notification request number 1.

```
====> EMAIL EXPIRE, 1
```

### Example

Email a JQP trace for printer LP01 to MacKinney Systems technical support:

First, allocate and open the temporary data set for the JQPLOG messages.

```
====> EMAIL JQPLOG, START, LP01
```

Second, start the JQP trace for printer LP01.

Third, close the temporary data set for additional messages for printer LP01.

```
====> EMAIL JQPLOG, STOP
```

Fourth, send the JQPLOG to MacKinney Systems technical support.

```
====> EMAIL JQPLOG, SEND
```

## END

The END command explicitly ends a JQP display, for example, the display after a LIBRARY command. A JQP display implicitly ends when a new JQP command is entered, for example, entering a LIBRARYQ command on the LIBRARYP display.

END has no operands.

### Example

End the current JQP display:

==> END

## EXEC

Use the EXEC command to execute JQP commands in a source member.

EXEC may be issued from the system console.

EXEC has one required operand:

EXEC *member*

member	Source member in the JQPCNTL library containing the JQP commands.
--------	---

Note: Limit one JQP command per record.

The JQP command is limited to 72 bytes.

JQP commands are NOT translated to uppercase before executed.

### Example

Execute all JQP commands in source member TEST in the JQPCNTL library:

```
====> EXEC TEST
```

# FILTER

The FILTER command displays the filter used to limit the JQP definition display.

FILTER has one optional operand.

FILTER [OFF|RESET|CLEAR|DELETE]

OFF RESET CLEAR DELETE	Specify OFF, RESET, CLEAR or DELETE to delete the filters used for the display.
---------------------------------	---

## Example

Display the filters used for the JQP destination definitions.

===> FILTER

After entering the FILTER command on the JQPFIDDS destination menu screen, the following screen displays.

JQPFIDFL	MACKINNEY SYSTEMS			
===>	_____			
AND/OR Fields ==> <u>1</u> (1=AND, 0=OR)				
	<u>FIELD</u>	<u>OP</u>	<u>VALUE (may include *)</u>	<u>FILTER FIELD(S)</u>
0	_____	---	_____	1. CLASS
0	_____	---	_____	2. CPI
0	_____	---	_____	3. DBCS
0	_____	---	_____	4. DBCS SOSI DISP
0	_____	---	_____	5. DBCS SHIFT-IN
0	_____	---	_____	6. DBCS SHIFT-OUT
0	_____	---	_____	7. DBCS TRT NAME*
0	_____	---	_____	8. DESCRIPTION*
0	_____	---	_____	9. DEST SELECTION*
				10. DESTINATION*
				11. FCB
				12. FLAGS
				13. FLAG (1)
				14. FLAG (2)
				15. FLAG (3)
PF1-HELP PF3-END PF7-BACKWARD PF8-FORWARD				

## FIND

The FIND command locates an entry within a displayed list. The search for the entry begins with the second line on the screen, unless the FIRST keyword option is used. The first line containing the entry is positioned at the top of the screen. If the entry is not found, the screen redisplay without any changes. Entering the FIND command immediately after the “string is not found” message, restarts the command from the top of the display.

When the FIND command is assigned to a PFkey as F or FIND, enter the entry to locate on the command line and press the assigned PFkey to locate it.

To support the Repeat Find feature, assign the FIND command to a PFkey. Key a FIND command on the JQP command line and press ENTER. Pressing the assigned PFKey again repeats the FIND command.

FIND may also be entered as F.

FIND has two formats:

*FIND parameter,[FIRST]*

Parameter	Specify the entry to locate.
FIRST	Begin the search with the first data line.

### Example

Locate the entry IP01 in the current JQP display:

```
==> FIND IP01
```

*FIND parameter,[column|FIRST],[FIRST]*

Parameter	Specify the entry locate.
Column	Limits the search to the specified column. Column may be one through eighty. To search the entire display, specify “*” or omit the column parameter.
FIRST	Begin the search with the first data line.

When the FIND command is assigned to a PFkey as F or FIND, the second parameter column is ignored.

### Examples

Locate the text string 192.168.255.49 anywhere in the current JQP display:

```
==> FIND 192.168.255.49
```

Locate the text string 192.168.255.49 at column 37 in the current JQP display:

```
==> FIND 192.168.255.49,37
```

## FONTS

Use the FONTS command to display the font name table.

FONTS may be issued from the system console.

Display the font name table.

```
====> FONTS
```

### Sample Display

```
JQPFIDI  MacKinney Systems
====> _____

-- Top of Display --
-----
FONT# FONT NAME
-----
   1 Courier New
-- End of Display --

PF1-HELP PF3-END PF7-BACKWARD PF8-FORWARD PF2-REFRESH
```

# FORWARD

FORWARD scrolls forward through a display created by a command such as LIBRARYQ.

FORWARD may also be entered as FOR or FO.

FORWARD has one operand.

FORWARD [#|H|M]

#	Specify the number of lines to page forward. Default is one full page.
M	Specifies maximum forward scrolling or position the display ending with the last line.
H	Specifies scrolling forward a half screen.

FORWARD is typically assigned to a PFkey to facilitate scrolling.

NOTE: When the Forward command is assigned to a PFkey as FO, FOR, or FORWARD, enter a number in the command line as the number of lines to page forward, the letter H to indicate half screen to page forward or the letter M to page to last page in the display. Then press the assigned PFkey to page forward.

### Example(s)

Page forward one full JQP display page:

====> FORWARD

Page forward one half JQP display page:

====> FORWARD H

Page forward to last JQP display page:

====> FORWARD M

## HALT

HALT stops a report currently printing or prevents a report waiting to print from starting.

HALT has one operand.

HALT *destination*

destination	Specify the destination name to halt or use a '*' in any position of the destination name to halt all destinations matching the generic mask. This operand is required.
-------------	---

### Example

To halt the printing of report with the destination of P02, issue the following command:

===> HALT P02

## HELP

Enter this command on any JQP screen to display help for the screen.

HELP has no operands.

### Example

Display the JQP help screen:

====> HELP

### Sample Display

```
JQPFDIHP  JES QUEUE FOR PRINTERS
====> _____

This screen provides access to all JQP commands to control resources defined
to JQP. Each item displayed on the screen can be secured and if secured will
not show up on this screen.

Item 1, Display Print Work Queue
  Display all printers/destinations with active printing.

Item 2, Display Destinations
  Display all destinations defined to JQP.

Item 3, Display VTAM Printers
  Display all VTAM printers defined to JQP.

Item 4, Display TCP/IP Printers
  Display all TCP/IP printers defined to JQP.

Item 5, Display VTAM Terminals
  Display all VTAM terminals defined to JQP.

PF3-END PF7-BACKWARD PF8-FORWARD
```

# IPP

The Internet Printing Protocol (IPP) command requests a specified category of information from the printer. Use this command to find the printers attributes.

IPP has one required operand and one optional operand.

```
IPP [printer|$####], [ATTRIBUTE]
```

Printer	The JQP printer the IPP ATTRIBUTE command is directed to. The JQP printer must be defined as an “open socket” (i.e. non-LPD printer). The printer hardware must support the IPP command.
\$####	A IPP four digit status code prefixed with the character “\$” displays an explanation for the IPP status code.
ATTRIBUTE	Lists the printer’s attributes. This is the default.

## Example

Obtains the printer’s attributes for printer IP05:

```
====> IPP IP05
```

## Sample Display

```
-- Top of Display --
IPP version=1.1 status-code=0000
printer-uri-supported
 ipp://10.11.105.2/ipp/port1
 ipp://10.11.105.2/ipp
uri-security-supported
  none
  none
uri-authentication-supported
  requesting-user-name
  requesting-user-name
printer-name
 NPI8ADFA3
printer-info
 MFG:Hewlett-Packard;CMD:PJL,MLC,PCLXL,PCL,PJL,POSTSCRIPT,MPIPDS;1284.4DL:4d,4e
 DL:hp LaserJet 2430;CLS:PRINTER;DES:Hewlett-P
printer-state
 pending
printer-state-reasons

PF1-HELP PF3-END PF7-BACKWARD PF8-FORWARD PF2-REFRESH
```

## IPP (continued)

### Example

Obtains the explanation for IPP status code 0400:

```
==> IPP $0400
```

### Sample Display

```
-- Top of Display --  
Status Code:0400  
client error bad request  
Reference RFC8011 Appendix B.1.4.1  
-- End of Display --  
  
PF1-HELP PF3-END PF7-BACKWARD PF8-FORWARD PF2-REFRESH
```

## KEYS

Displays the commands currently associated with this user's PA/PF keys.

KEYS may be entered as KEY.

### Example

Display the PFkeys currently set and their JQP function:

```
====> KEYS
```

### Sample Display

```
JQPFDIDI  JES QUEUE FOR PRINTERS
====> _____

-- Top of Display --
-----
KEY TRAP  COMMAND
-----
PF1  OFF HELP
PF3  OFF END
PF4  OFF LIBQ
PF7  OFF BACKWARD
PF8  OFF FORWARD
-- End of Display --

PF1-HELP PF3-END PF7-BACKWARD PF8-FORWARD PF2-REFRESH
```

## LEFT

For JQP Displays with more than 80 columns of information, displays the left section of the information.

### Example

Display the left section of the JQP information:

```
====> LEFT
```

### Sample Display

```
JQPFDIPL  JES QUEUE FOR PRINTERS
====> _____

PRT: LPD1  DST: LPD1  JOB: JQP24 ,STC08253,2.1.1
-----
-- Top of Display --
JQPRPRIP01 ** PRINTING ON PRINTER LPD1  STARTED,    46,456 LINES
          JOB=JQP24  ID=STC08253 GRP=2.1.1
          DEST=LPD1  USER=JQP  XWTR=
JQPRPRIP10 ** REPORT SPOOLING TO DASD IS STARTING **
JQPRDYNA02 ** DD=JQP00001 MACS.JQP00001.LPD1.JQP24.STC08253
JQPRPRSL01 ** MODULE "HPIVP12" NOT FOUND **
JQPRPRIP10 ** REPORT SPOOLING TO DASD IS COMPLETE **
JQPRPRIP11 ** CONNECTING TO HOST:192.168.1.105  PORT:515 **
JQPRIPRC01 ** TCP/IP CONNECT  FAILED  PRINTER:LPD1  **
JQPRIPRC02 ** TCP/IP RC:-0000001 ERRNO: 0000060 PRINTER:LPD1  **
JQPRPRIP09 ** PORT CONNECTION REFUSED, TRYING AGAIN IN 240 SECONDS **
JQPRPRIP11 ** CONNECTING TO HOST:192.168.1.105  PORT:515 **
-- End of Display --

COMMANDS:
PF1-HELP PF3-END PF7-BACKWARD PF8-FORWARD PF10-LEFT PF11-RIGHT
```

## LIBRARYC

Use LIBRARYC to list all commands defined to JQP.

LIBRARYC may be issued from the system console.

LIBRARYC may also be entered as LIBC.

Display all commands defined to JQP:

```
====> LIBRARYC
```

### Sample Display

```
JQPFIDID  JES QUEUE FOR PRINTERS
====> _____

-- Top of Display --
-----
COMMAND  PHASE  - ACCESS ALLOWED -
          USER EXTU OPER ADM
-----
=1  JQPCMENQ YES YES YES YES
=16  JQPCKEYS YES YES YES YES
=17  JQPCLIBH NO  NO  YES YES
=18  JQPCLIBM NO  NO  YES YES
=19  JQPCLIBP YES YES YES YES
=2  JQPCMENS YES YES YES YES
=20  JQPCLIBQ YES YES YES YES
=21  JQPCLIBS NO  NO  YES YES
=22  JQPCLIBT NO  NO  YES YES
=23  JQPCLIBU NO  NO  YES YES
=24  JQPCLBPX YES YES YES YES
=25  JQPCLBQX YES YES YES YES
=26  JQPCSHOW NO  NO  YES YES
=27  JQPCLIBC NO  NO  YES YES

PF1-HELP PF3-END PF7-BACKWARD PF8-FORWARD PF2-REFRESH
```

# LIBRARYF

Use LIBRARYF to list all LPD control file groups defined to JQP.

LIBRARYF may be issued from the system console.

LIBRARYF may also be entered as LIBF.

LIBRARYF has one optional operand.

LIBRARYF *group*

Group	Specify the group name to limit the display to only a single LPD control file group or use a '*' in any position of the group name to display all groups matching the generic mask. When this operand is not specified, all LPD control file groups defined to JQP display.
-------	---

### Example

Display all LPD control file groups defined to JQP:

```
====> LIBRARYF
```

### Sample Display

```
JQPFIDI  JES QUEUE FOR PRINTERS
====> _____

-- Top of Display --
LPD CONTROL FILE GROUP: SYSTEM
-----
ROUTINE=CMDUH          SWITCH=00000000
ROUTINE=IPHOST         SWITCH=00000000
ROUTINE=LF             SWITCH=00000000
ROUTINE=CMDUP         SWITCH=00000000
ROUTINE=APPLID LITERAL='.' SWITCH=00000000
ROUTINE=FORMID        SWITCH=00000000
ROUTINE=LF            SWITCH=00000000
ROUTINE=CMDUJ         SWITCH=00000000
ROUTINE=JOBNAME LITERAL='.' SWITCH=00000000
ROUTINE=JOBID         SWITCH=00000000
ROUTINE=LF            SWITCH=00000000
ROUTINE=CMDUN         SWITCH=00000000
ROUTINE=JOBNAME LITERAL='.' SWITCH=00000000
ROUTINE=JOBID         SWITCH=00000000
ROUTINE=LF            SWITCH=00000000

PF1-HELP PF3-END PF7-BACKWARD PF8-FORWARD PF2-REFRESH
```

## LIBRARYF (continued)

### Filter Routine(s)

- CMDUC - Class for banner page, ASCII uppercase "C".
- CMDUH - Host name, ASCII uppercase "H". ← **This filter is required.**
- CMDUI - Indent Printing, ASCII uppercase "I".
- CMDUJ - Job name for banner page, ASCII uppercase "J".
- CMDUL - Print banner page, ASCII uppercase "L".
- CMDUM - Mail When Printed, ASCII uppercase "M".
- CMDUN - Name of source file, ASCII uppercase "N".
- CMDUP - User identification, ASCII uppercase "P". ← **This filter is required.**
- CMDUS - Symbolic link data, ASCII uppercase "S".
- CMDUT - Title for pr, ASCII uppercase "T".
- CMDUU - Unlink data file, ASCII uppercase "U".  
Note: Builds entire filter command.
- CMDUW - Width of output, ASCII uppercase "W".  
Note: Builds entire filter command.
- CMD1 - troff R font, ASCII number "1".
- CMD2 - troff I font, ASCII number "2".
- CMD3 - troff B font, ASCII number "3".
- CMD4 - troff S font, ASCII number "4".
- CMDLC - Plot CIF file. ASCII lowercase "c".
- CMDLD - Print DVI file, ASCII lowercase "d".
- CMDLF - Print formatted file, ASCII lowercase "f".  
Note: Builds entire filter command.
- CMDLG - Plot file, ASCII lowercase "g".
- CMDLL - Print file leaving control characters, ASCII lowercase "l".  
Note: Builds entire filter command.
- CMDLN - Print ditroff output file, ASCII lowercase "n".
- CMDLO - Print Postscript output file, ASCII lowercase "o".
- CMDLP - Print file with "pr" format, ASCII lowercase "p".
- CMDLR - File to print with FORTRAN carriage control, ASCII lowercase "r".
- CMDLT - Print troff output file, ASCII lowercase "t".
- CMDLV - Print raster file, ASCII lowercase "v".

Note: Commands CMDUH (Host Name) and CMDUP (User Identification) are required.

Note: At least one lowercase command is required.

## LIBRARYF (continued)

### Field Routine(s)

ACCTNO	-	Report's Accounting Number
APPLID	-	JQP VTAM APPLID
CLASS	-	Report's SYSOUT Class
COPIES	-	Report's Number of Copies
DDNAME	-	Report's DD Name
DESTID	-	Report's Destination Name
DSNAME	-	Report's Dataset Name
FCB	-	Report's FCB Name
FORMDEF	-	Report's Form Definition
FORMID	-	Report's Form ID
IPADDR	-	Printer TCP/IP Address
IHOST	-	JQP TCP/IP Host Name
JESNAME	-	Report's JES Name
JOBID	-	Report's Job ID
JOBNAME	-	Report's Job Name
LF	-	Line Field, x'0A'
NETACCT	-	Report's Network Account Number
OUTGRP	-	Report's Output Group ID
OWNER	-	Report's Owner Name
PAGECNT	-	Report's Page Count
PAGEDEF	-	Report's Page Definition
PRINTER	-	Printer ID
PRINTQ	-	Printer Queue Name
SYSID	-	z/OS System ID
USERDAT1	-	Report's USERDATA Parameter One
USERDAT2	-	Report's USERDATA Parameter Two
USERDAT3	-	Report's USERDATA Parameter Three
WIDTH	-	Destination Width Parameter
XWRITER	-	Report's XWRITER Name

SWITCH= 00000000

First set of option switches (left to right) one through eight.

To enable the switch, specify "1". To disable the switch, specify "0".

SWITCH(1)	Bypass field truncation.
SWITCH(2)	Truncate the last non-blank byte of the OWNER-ID field when the last non-blank byte is numeric (0-9).
SWITCH(3)	Not Used
SWITCH(4)	Not Used
SWITCH(5)	Not Used
SWITCH(6)	Not Used
SWITCH(7)	Not Used
SWITCH(8)	Not Used

## LIBRARYH

Use LIBRARYH to list all printer groups defined to JQP.

LIBRARYH may be issued from the system console.

LIBRARYH may also be entered as LIBH.

LIBRARYH has one optional operand.

LIBRARYH *group*

Group	Specify the group name to limit the display to only a single printer group or use a '*' in any position of the group name to display all groups matching the generic mask. When this operand is not specified, all printer groups defined to JQP display.
-------	---

### Example

Display all printer groups defined to JQP:

```
====> LIBRARYH
```

### Sample Display

```
JQPFIDI  JES QUEUE FOR PRINTERS
====> _____

-- Top of Display --
-----
PRINTER PRINTER
GROUP  NAME
-----
USER   P02
USER   P03

SYSTEM P03
SYSTEM P04
-- End of Display --

PF1-HELP PF3-END PF7-BACKWARD PF8-FORWARD PF2-REFRESH
```

## LIBRARYJ

Use LIBRARYJ to display the email job name table.

LIBRARYJ may be issued from the system console.

LIBRARYJ may also be entered as LIBJ.

Display the email job name table.

====> LIBRARYJ

### Sample Display

```
JQPFIDI  JES QUEUE FOR PRINTERS
====> _____

-- Top of Display --
-----
GROUP  JOB NAME
-----
SYSTEM DLM*
-- End of Display --

PF1-HELP PF3-END PF7-BACKWARD PF8-FORWARD PF2-REFRESH
```

## LIBRARYM

Use LIBRARYM to list all logon macro groups defined to JQP.

LIBRARYM may be issued from the system console.

LIBRARYM may also be entered as LIBM.

LIBRARYM has one optional operand.

LIBRARYM *group*

GROUP	Specify the group name to limit the display to only a single macro group or use a '*' in any position of the group name to display all groups matching the generic mask. When this operand is not specified, all logon macro groups defined to JQP display.
-------	---

### Example

Display all macro groups defined to JQP:

```
====> LIBRARYM
```

### Sample Display

```
JQPFIDI  JES QUEUE FOR PRINTERS
====> _____

-- Top of Display --

LOGON MACRO GROUP: SYSTEM
-----
SET PF1,HELP
SET PF3,END
SET PF4,LIBQ
SET PF7,BACKWARD
SET PF8,FORWARD
-- End of Display --

PF1-HELP PF3-END PF7-BACKWARD PF8-FORWARD PF2-REFRESH
```

# LIBRARYP

Use LIBRARYP to list all terminals and printers defined to JQP.

LIBRARYP may be issued from the system console.

LIBRARYP may also be entered as LIBP.

LIBRARYP has one optional operand.

LIBRARYP [*printer|terminal|group*]

Printer	Specify a terminal or printer name to limit the display to a single terminal or printer or use a '*' in any position of the terminal or printer name to display all terminals or printers matching the generic mask.
Terminal	
Group	
	Specify a printer group name (starting with the character "@" ) to display all printers assigned to the group.
	When this operand is not specified, all terminals and printers defined to JQP display.

### Example

Display all terminals and printers defined to JQP:

```
====> LIBRARYP
```

### Sample Display

```
JQPFIDI  JES QUEUE FOR PRINTERS
====> _____

-- Top of Display --
-----
TERMINAL TERM ----- PRINTER -----   VTAM
ID  TYPE SCS,TR STATUS  FORM  LOGMODE  USER  STATUS PROTOCOL TRACE
-----
T01A  TERM                SYSTEM OPEN SNA  OFF
P01  PRT YES,35 STARTED STD  SCS      CLOSED SNA  OFF
P02  PRT NO  STARTED STD          OPEN  NONSNA OFF
P03  PRT          STD
P04  PRT          STD
IP01  PRT
      IP HOST:192.168.255.49  PRINTER:text1      PORT:515,N
-- End of Display --
```

**Note:** When the START and/or STOP command(s) are equated to a PFKey and the LIBRARYP display is currently on the screen, issue the START and/or STOP command for a printer by positioning the cursor on the line of the printer to start and/or stop and press the equated PFKey.

## LIBRARYP (continued)

<u>Column</u>	<u>Explanation</u>
TERMINAL ID	Physical terminal or printer's VTAM netname.
TERMINAL TYPE	The type of device. TERM a terminal. PRT a printer.
PRINTER SCS, TR	For printers only, type of printer. YES a SCS type printer and the SCS transparent control code. NO a NON-SCS printer. blank JQP has not used this printer.
PRINTER STATUS	For printers only, current printer's status. IDLE the printer is available for JQP to use. STOPPED the printer is unavailable for JQP to use. STOPPING a STOP command has been issued against this printer and is in the process of stopping. PRINTING a report is currently printing on this printer. I-REQ indicates intervention required for this SCS printer. blank JQP has not used this printer.
PRINTER FORM	For printers only, indicates the FORM currently loaded on this printer. Only reports with a FORM matching this FORM start printing.
PRINTER LOGMODE	For printers only, the VTAM LOGMODE used in the bind to the printer.
USER	For terminals only, indicates the user currently logged on this terminal. Blank indicates no user is currently logged on this terminal.
VTAM STATUS	Indicates the VTAM status of the terminal or printer. OPEN JQP is currently in session with this device. CLOSED JQP is currently not using this device. blank JQP has not used this device.
PROTOCOL	Indicates the communications protocol used for the terminal or printer. SNA SNA protocol. NON-SNA NON-SNA protocol. TCPIP TCP/IP protocol. blank JQP has not used this device.
TRACE	Indicates the status of the JQP trace for the terminal or printer. OFF JQP is currently NOT tracing this device. SHORT JQP is currently tracing only the Request Headers (RH) for this device. FULL JQP is tracing all data for this device. blank JQP has not used this device.
IP HOST	Indicates the TCP/IP host name or host address for the LPD or "direct/open" socket printer.
PRINTER	Indicates the TCP/IP printer queue name defined on the LPD server.
PORT	First parameter, indicates the port number used in the TCP/IP connection. Second parameter, indicates if JQP binds the LPR to ports 721 through 731 as documented in RFC1179.

# LIBRARYQ

Displays all printers and destinations defined to JQP.

LIBRARYQ may be issued from the system console.

LIBRARYQ may also be entered as LIBQ.

LIBRARYQ has one optional operand.

LIBRARYQ *printer*

Printer	Specify a printer name to limit the display to only a printer or use a '*' in any position of the printer name to display all printers matching the generic mask. When this operand is not specified, all printers defined to JQP display.
---------	--

### Example

Display all printers defined to JQP with the prefix of IP:

====> LIBRARYQ IP\*

### Sample Display

```
JQPFIDI  JES QUEUE FOR PRINTERS
====> _____

-- Top of Display --
-----
PRINTER TYPE STATUS  FORM | DEST  STATUS CLASS  WAIT TOTAL LINES
-----
IP01  TCP STOPPED   IP01  WAITING QS    0    0
IP02  TCP STOPPED STD  IP02  WAITING QS    0    0
IP03  TCP STOPPED STD  IP03  DRAINED QS    0    0
IP04  TCP STOPPED STD  IP04  WAITING QS    0    0
IP05  TCP PRINTING STD  IP05  POST-PRT QS   0    0
                JOB=DLM1A  JOB03613 1.1.1
-- End of Display --

PF1-HELP PF3-END PF7-BACKWARD PF8-FORWARD
```

## LIBRARYQ (continued)

<u>Column</u>	<u>Explanation</u>
PRINTER	Printer's VTAM netname.
TYPE	Printer type TCP TCP/IP printer VTAM The VTAM printer JQP has not been in session with yet. SNA LUtype3 printer SCS LUtype1 printer NSNA Non-SNA printer FILE Dataset printer
	STATUS Current status of the printer IDLE Printer is available for JQP to use. STOPPED Printer is unavailable for JQP to use. STOPPING A STOP command has been issued against the printer and is in the process of stopping. PRINTING A report is currently printing on the printer. I-REQ Intervention is required for this SCS printer.
FORM	The form currently mounted on the printer.
DEST	Destination ID assigned to this printer.
STATUS	Current status of the destination. Reference <a href="#">Appendix C</a> for destination status information.
CLASS	One to eight JES Output classes this destination selects reports for.
WAIT	Number of reports, not including the current selected report, waiting to select for printing.
TOTAL LINES	Total number of lines in the waiting jobs to print.
Name/ID/GROUP	Report's job name, job ID and group name in the JES output queue.

## LIBRARYR

Use LIBRARYR to list the failed status automatic restart table.

LIBRARYR may be issued from the system console.

LIBRARYR may also be entered as LIBR.

Display the failed status automatic restart table:

```
====> LIBRARYR
```

### Sample Display

```
JQPFIDID  JES QUEUE FOR PRINTERS
====> _____

-- Top of Display --
-----
STATUS DESCRIPTION          RESTART
-----
FAIL-01 DFS RECORD NOT FOUND      NO
FAIL-02 DFP RECORD NOT FOUND      NO
FAIL-03 DFT RECORD NOT FOUND      NO
FAIL-04 VTAM SEND FAILED          YES
FAIL-05 FCB PROCESSING FAILED      NO
FAIL-06 PRINTER SETUP FAILED      NO
FAIL-09 DYNAMIC ALLOCATION FAILED   NO
FAIL-0A OPEN DCB FAILED           NO
FAIL-0B DYNAMIC UN-ALLOCATION FAILED NO
FAIL-0C DCB WRITE FAILED          NO
FAIL-0F DELETE REPORT FAILED      NO
FAIL-10 REPORT RESTART FAILED     NO
FAIL-11 READ DCB FAILED           NO
FAIL-12 MAXIMUM RECORD LENGTH EXCEEDED NO
FAIL-13 DBCS FAILED              NO

PF1-HELP PF3-END PF7-BACKWARD PF8-FORWARD PF2-REFRESH
```

# LIBRARYYS

Displays all destinations defined to JQP.

LIBRARYYS may be issued from the system console.

LIBRARYYS may also be entered as LIBS.

LIBRARYYS has one optional operand.

LIBRARYYS *destination*

destination	Specify a destination name to limit the display to only a destination or use a '*' in any position of the destination name to display all destinations matching the generic mask. When this operand is not specified, all destinations defined to JQP display.
-------------	--

## Example

Display all destinations defined to JQP:

====> LIBRARYYS

## Sample Display

```
JQPFIDIDI JES QUEUE FOR PRINTERS
====> _____

-- Top of Display --
-----
  DEST  PRINTER SEP  FORM          PRINTER
  ID    NETNAME PAGE FEED  WIDTH TRT SBCS MAX LINES  SETUP  RAW CPI
-----
P01    P01    YES AFTER  80 JQPFTTP1    0    NO
P02    P02    NO NONE   132 JQPFTTP2   10,000 HP2L  NO
P02X   P02    YES NONE   132 JQPFTTP3   1,000 HP2P  NO
P03    P03    NO NONE   132 JQPFTTP2   10,000 PS1L  NO
P03X   P03    NO NONE   133 JQPFTTP2   10,000      NO
P04    P04    NO NONE   132 JQPFTTP2   10,000      NO
-- End of Display --

PF1-HELP PF3-END PF7-BACKWARD PF8-FORWARD PF2-REFRESH
```

## LIBRARYS (continued)

<u>Column</u>	<u>Explanation</u>
DEST ID	Destination ID defined to JQP.
PRINTER NETNAME	Printer's VTAM NETNAME assigned to this destination.
SEP PAGE	Separator page option for this destination. YES prints a separator page before and after the report. NO does NOT print a separator page before and after the report. LPD uses the separator page provided by the LPD server.
	FORM FEED Form eject option for this destination. BEFORE issues an additional form feed before the report starts printing. AFTER issues an additional form feed after the report stops printing. BOTH issues an additional form feed before and after the report starts and stops printing. NONE does NOT issue any additional form feeds. SPECIAL removes the first form feed for the report. In some cases, this eliminates an extra blank page before the report begins printing. SPECIAL2 removes the first form feed for the report and JQP issues an additional form feed after the report stops printing. In some cases, this eliminates an extra blank page before the report begins printing.
WIDTH	Maximum width (character per line) defined for this destination.
TRT	Printer Translate Table used for this destination.
MAX LINES	Maximum number of lines this destination selects reports to print.
PRINTER SETUP	Printer setup codes used for this destination.
RAW	Print line formatting NO Add new-line and form feeds to the printer data stream. YES Do not add printer control characters to the data stream. YS2 Do not add printer control characters to the data stream. Prefix print data with a four byte length field and a one byte Channel Command code. The length field includes the length of the data only. YS3 Do not add printer control characters to the data stream. Prefix print data with a four byte length field and a one byte Channel Command code. The length field contains the combined length of the print data, four byte length field and the one byte Channel Command code.
CPI	Characters Per Inch, for SCS type printers only.

## LIBRARYT

The LIBRARYT command displays a snapshot of currently active tasks in JQP.

LIBRARYT may also be entered as LIBT.

### Example

Display all JQP task(s) currently processing:

====> LIBRARYT

### Sample Display

```
JQPFIDIDI JES QUEUE FOR PRINTERS
====> _____

-- Top of Display --
-----
TASK CTL TASK STATUS PHYSICAL USER ROUTINE
ADDR NUMBER TERMINAL
-----
0002F600 201 ACTIVE T01A SYSTEM JQPCLIBT
0002FC00 4 WAIT CONSOLE CONSOLE JQPROCDR
-- End of Display --

PF1-HELP PF3-END PF7-BACKWARD PF8-FORWARD PF2-REFRESH
```

## LIBRARYU

Use LIBRARYU to list all users defined to JQP.

LIBRARYU may be issued from the system console.

LIBRARYU may also be entered as LIBU.

LIBRARYU has one optional operand.

LIBRARYU *user*

User	Specify a user name to limit the display to a single user or use a '*' in any position of the user name to display all users matching the generic mask. When this operand is not specified, all users defined to JQP display.
------	---

### Example

Display all dynamic users and all users defined to JQP:

==> LIBRARYU

### Sample Display

```
JQPFIDI JES QUEUE FOR PRINTERS
==> _____

-- Top of Display --
-----
USER CLASS LOGON  MACRO PRINTER TERMINAL
STATUS MODE GROUP GROUP  ID
-----
OPERATOR OPER      SYSTEM
SYSTEM ADM OPEN  DI SYSTEM    T01A
USER  USER      SYSTEM USER
USER2 USER      SYSTEM
USER3 USER      SYSTEM
USER4 USER      SYSTEM
-- End of Display --

PF1-HELP PF3-END PF7-BACKWARD PF8-FORWARD PF2-REFRESH
```

## LIBRARYU (continued)

<u>Column</u>	<u>Explanation</u>
USER	User defined to JQP.
CLASS	Class this user is assigned.
LOGON STATUS	Status of the user. OPEN           the user is currently logged on to JQP. CLOSED        the user is NOT logged on to JQP. Blank          the user has never logged on to JQP.
MODE	Current mode of operation. SL             the user is on the main JQP screen. DI             the user is on the display JQP screen.
MACRO GROUP	Macro group the user is assigned.
PRINTER GROUP	Printer group the user is assigned.
TERMINAL ID	Terminal the user is currently logged on.

# LIBRARYX

Use LIBRARYX to display the MacKinney Print Transform (MPT) Transform Work Queue.

LIBRARYX may be issued from the system console.

LIBRARYX may also be entered as LIBX.

LIBRARYX has two optional operands.

LIBRARYM *dest*, \$CLEAR

dest	Specify a destination name to limit the display to only Transform Work Queue entries for the destination or use '*' in any position of the destination name to display all Transform Work Queue entries matching the generic mask. When this operand is not specified, all Transform Work Queue entries display.
\$CLEAR	Specify \$CLEAR as the second parameter to purge all Transform Work Queue entries for the destination specified with the first parameter.

## Example

Display all the MacKinney Print Transform (MPT) Transform Work Queue entries.

====> LIBRARYX

## Sample Display

```
JQPFIDDI  JES QUEUE FOR PRINTERS
====> _____

-- Top of Display --
-----
DEST  JOB NAME  JOB ID  GROUP ID / DATA SET NAME
-----
LPD1  DLMX35  JOB23445  2.1.1
      DLM1.DLMX35.JOB23445.D0000103.?
      MPT  STC50812 162.1.1          LENGTH= 115,163

-- End of Display --

PF1-HELP PF3-END PF7-BACKWARD PF8-FORWARD PF2-REFRESH
```

## LIBRARYX (continued)

<u>Column</u>	<u>Explanation</u>
DEST	JQP destination assigned to the transformed data set.
JOB NAME	Top line of the three line display, Job Name of the original report in the JES Output queue. Bottom line of the three line display, Job Name of the MPT transformed report in the JES Held queue.
JOB ID	Top line of the three line display, Job ID of the original report in the JES Output queue. Bottom line of the three line display, Job ID of the MPT transformed report in the JES Held queue.
GROUP ID	Top line of the three line display, Group ID of the original report in the JES Output queue. Bottom line of the three line display, Group ID of the MPT transformed report in the JES Held queue. This line also displays the length of the transformed data set. When the length is greater than 2,147,483,647 bytes, OVERFLOW displays.
DATA SET NAME	Middle line of the three line display, Data set name of the original report in the JES Output queue.

# LIBPX

The LIBPX command displays all information associated with a physical terminal. The LIBPX command is an extension of the LIBP command and displays more information associated with the physical terminal.

LIBPX requires a physical terminal name.

`LIBPX terminal`

Terminal	Specify the physical terminal name the information is to display.
----------	---

### Example

Display all information for terminal T01A:

`====> LIBPX T01A`

### Sample Display

```
JQPFIDIDI JES QUEUE FOR PRINTERS
====> _____

-- Top of Display --
-----
TERMINAL TERM ----- PRINTER ----- VTAM
ID TYPE SCS,TR STATUS FORM LOGMODE USER STATUS PROTOCOL TRACE
-----
T01A TERM                SYSTEM OPEN SNA OFF

    AUTO DFT ALT
EXTDS LOGON-ID SCREEN SCREEN BRACKET DIRECTION
-----
D0 SYSTEM 24,80 24,80 INB  OUTBOUND
-- End of Display --

PF1-HELP PF3-END PF7-BACKWARD PF8-FORWARD
```

<u>Column</u>	<u>Explanation</u>
EXTDS	Terminal's extended data stream capabilities.
AUTO LOGON-ID	User ID to log on when JQP establishes a session with this terminal.
DFT SCREEN	Terminal's default screen size.
ALT SCREEN	Terminal's alternate screen size.
BRACKET	Bracket state of the terminal. INB               the terminal is in bracket state. BETB             the terminal is out of bracket state.
DIRECTION	Terminal's data stream direction. OUTBOUND        the data stream is outbound to the terminal. INBOUND         the data stream is inbound to the terminal.

## LIBQX

The LIBQX command displays all information for a printer and its destinations defined to JQP.  
The LIBQX command is an extension of the LIBQ command to display more information associated with the reports selected for printing.

LIBQX requires a printer.

LIBQX *printer*

Printer	Specify the printer name the information is to display.
---------	---

### Example

Display all information for printer IP05:

====> LIBQX IP05

### Sample Display

```
JQPFIDI  JES QUEUE FOR PRINTERS
====> _____

-- Top of Display --
-----
PRINTER TYPE STATUS  FORM | DEST  STATUS CLASS WAIT TOTAL LINES
-----
IP05  TCP PRINTING STD  IP05  POST-PRT QS   0   0
      JOB=DLM1A  JOB03613 1.1.1
      IP05P  WAITING QS   0   0
      IP05T  WAITING QS   0   0
-----
JOB NAME JOB ID  STATUS PRI CLS DEST  FORM XWRITER TOTAL LINES
-----
DLM1A  JOB03613 POST-PRT 144 Q IP05  STD           74
-- End of Display --

PF1-HELP PF3-END PF7-BACKWARD PF8-FORWARD
```

## LOGOFF

Use LOGOFF to logoff of JQP.

LOGOFF may also be entered as LOGOF.

LOGOFF has no operands.

### Example

Logoff the JQP terminal session:

```
==> LOGOFF
```

## LOGON

Use LOGON to logon to another or the same user ID. LOGON first logs the user off, and then displays the logon screen.

LOGON has no operands.

LOGON provides the only means to use the terminal by another user ID after the terminal is automatically logged on.

### Example

Logon to another user ID:

```
===> LOGON
```

## **MENUx**

Find more detailed information about the menu commands in [Section IV User Reference](#).

## **MENUI**

Use the MENUI command to display information about all TCP/IP printers defined to JQP.

## **MENUM**

Use the MENUM command to display information about all print transform members defined to JQP.

## **MENUQ**

Use the MENUQ command to display information about all printers and destinations defined to JQP.

## **MENUS**

Use the MENUS command to display information about all destinations defined to JQP.

## **MENUT**

Use the MENUT command to display information about all VTAM terminals defined to JQP.

## **MENUU**

Use the MENUU command to display information about all users defined to JQP.

## **MENUV**

Use the MENVV command to display information about all VTAM printers defined to JQP.

## **MENUX**

Use the MENUX command to export JQP definitions to a PDS member.

## **MENUY**

Use the MENUY command to import JQP definitions from a PDS member.

# MIGRATE

Use the MIGRATE command to migrate a JQP table to the VSAM file.

Note: A JQP START command is automatically issued for all destination entries and any printer entries with the ISTATUS=ACT parameter.

Note: **Issue the MIGRATE command from the JQPFDISL screen or from the system console.**

MIGRATE has two operands.

MIGRATE {*table*|INITIAL|ALL}, [R]

Table	Specify the JQP table name to migrate. The JQP tables eligible for migration are the destination (JQPFDFDS), physical (JQPFDFPH), and user (JQPFDFUS) tables.
INITIAL	Specify "INITIAL" to prepare the VSAM file for processing. <b>Note: This option is only used to prime an empty VSAM file.</b>
ALL	Specify "ALL" to prepare the VSAM file for processing and to migrate the destination (JQPFDFDS), physical (JQPFDFPH) and user (JQPFDFUS) tables.
R	Specify the optional parameter "R" to replace entries on the VSAM file with entries from the JQP table. When this parameter is not specified, the migrate command does not replace the duplicate entry.

## Examples

Initialize the VSAM file for use and migrate all tables:

```
===> MIGRATE ALL
```

Initialize the VSAM file for use and migrate the destination table only:

```
===> MIGRATE INITIAL
```

```
===> MIGRATE JQPFDFDS
```

Migrate the user table only and replace duplicate entries:

```
===> MIGRATE JQPFDFUS,R
```

**Note: After the migration command is complete, review the JQPLOG for more detailed information.**

# MOUNT

Use MOUNT to inform JQP a new form is mounted on a printer. After the MOUNT command is issued, JQP begins printing any reports matching the form loaded.

MOUNT has two required operands.

MOUNT *printer, form*

Printer	Specify the name of the printer the form is loaded on.
Form	Specify the name of the form loaded on the printer(s). The form name may be left blank to clear the form loaded on the printer.

## Example

Mount form STD on printer P02:

```
===> MOUNT P02, STD
```

**Note:** When the MOUNT command is equated to a PFKey and the LIBRARYP display is currently on the screen, issue the MOUNT command for a printer by positioning the cursor on the line of the printer and pressing the PFKey. Key the form to load on the printer on the command line, and press the PFKey assigned to the MOUNT command. When no form is keyed in the command line, a blank form loads.

## MPT

Use MPT to interface to the MacKinney Print Transform (MPT) product.

MPT has one required operand.

MPT [PING|PING2|\$MPT]

PING	Ping request to the primary MPT server.
PING2	Ping request to the secondary MPT server.
\$MPT	Display the internal table built from the PDS member \$MPT

### Examples

Ping the MPT primary server:

```
===> MPT PING
```

Ping the MPT secondary server:

```
===> MPT PING2
```

Display the internal table built from the PDS member \$MPT:

```
===> MPT $MPT
```

### Sample Display

```
JQPFIDID  JES QUEUE FOR PRINTERS
===> _____

-- Top of Display --
-----
PAGEDEF  FORMDEF
-----
P1STD1  IBM

-- End of Display --

PF1-HELP PF3-END PF7-BACKWARD PF8-FORWARD PF2-REFRESH
```

## NEWCOPY

Immediately load a new copy of a JQP table. All tables and screens are eligible for NEWCOPY. Not all options in the Control Table (JQPFDFACT) table are new copied.

NEWCOPY may also be entered as NEWC.

NEWCOPY has one operand:

NEWCOPY *module*

Module	The JQP module to load
--------	------------------------

### Example

New copy the JQP Logon Macro table (JQPFDPMC):

==> NEWCOPY JQPFDPMC

## PING

Send a ping request (TCP/IP echo command) to the TCP/IP printer.

Note: JQP issues the ping request at the ICMP level.

The following sequence is now used to resolve the PING command parameter to a TCP/IP address.

1. The PING command operand in xxx.xxx.xxx.xxx format
2. The PING command operand resolved using DNS
3. The PING command operand as the JQP printer name "Host Name" definition in xxx.xxx.xxx.xxx format
4. The PING command operand as the JQP printer name "Host Name" definition resolved using DNS.

PING has one required operand:

PING [name|address]

name	The host name of the TCP/IP printer. JQP uses DNS to resolve the host name into a host address.
address	The TCP/IP address of the TCP/IP printer. The address is specified in standard xxx.xxx.xxx.xxx format.

### Example

Ping printer at address 192.168.1.49:

```
==> PING 192.168.1.49
```

### Example

Ping printer with host name of PRINTER1:

```
==> PING PRINTER1
```

# PJL

The Printer Job Language (PJL) command requests a specified category of information from the printer. Use this command to find the printer model, configuration, memory available, page count, status information, PJL file system information, and a list of the printer variables, including environmental, printer language-dependent, and unsolicited status variables.

PJL has one required operand and one optional operand.

```
PJL [printer|#####], [ID|CONFIG|FILESYS|MEMORY|PAGECOUNT|  
STATUS|USTATUS|VARIABLES|ALL|ECHO]
```

Printer	The JQP printer the PJL INFO command is directed to. The JQP printer must be defined as an "open socket" (i.e. non-LPD printer). The printer hardware must support the PJL command.
#####	A PJL five digit status code prefixed with the character "\$" displays an explanation for the PJL status code.
ID	Provides the printer model number.
CONFIG	Provides configuration information, such as how many and what paper sizes are available in this printer.
FILESYS	Returns PJL file system information.
MEMORY	Identifies amount of memory available.
PAGECOUNT	Returns the number of pages printed by the print engine.
STATUS	Provides the current printer status.
USTATUS	Lists the unsolicited status variables provided by the printer, the possible variable values, and the current variable settings.
VARIABLES	Lists environmental and printer language-dependent variables, the possible variable values, and the current variable settings.
ALL	Provides ID, CONFIG, FILESYS, MEMORY, PAGECOUNT, STATUS, USTATUS and VARIABLES information.
ECHO	Prompts the printer to return a specified message to JQP.

### Example

Obtains the printer model number for printer IP05:

```
====> PJL IP05, ID
```

### Sample Display

```
JQPFIDID  JES QUEUE FOR PRINTERS  
====> _____  
  
-- Top of Display --  
@PJL INFO ID  
"hp LaserJet 2430"  
-- End of Display --  
  
PF1-HELP PF3-END PF7-BACKWARD PF8-FORWARD
```

## PJL (continued)

### Example

Obtains the status of printer IP05:

```
====> PJL IP05, STATUS
```

### Sample Display

```
JQPFDIDI  JES QUEUE FOR PRINTERS
====> _____

-- Top of Display --
@PJL INFO STATUS
CODE=10023
  PROCESSING JOB or
  PROCESSING JOB FROM ENV FEEDER or
  PROCESSING JOB FROM TRAY x
DISPLAY="Processing job"
ONLINE=TRUE
-- End of Display --

PF1-HELP PF3-END PF7-BACKWARD PF8-FORWARD
```

### Example

Obtains the explanation for PJL status code 10023:

```
====> PJL $10023
```

### Sample Display

```
JQPFDIDI  JES QUEUE FOR PRINTERS
====> _____

-- Top of Display --
CODE=10023
  PROCESSING JOB or
  PROCESSING JOB FROM ENV FEEDER or
  PROCESSING JOB FROM TRAY x
-- End of Display --

PF1-HELP PF3-END PF7-BACKWARD PF8-FORWARD
```

## PRINT

Starts a VTAM session between JQP and the printer and begins the report selection process. Normally this function occurs automatically in JQP.

PRINT has one required operand:

PRINT *printer*

Printer	The printer NETNAME to start printing.
---------	--

### Example

Starts a VTAM session and begins the report selection process with printer P02:

==> PRINT P02

## PURGE

The PURGE command purges a user off JQP.

PURGE has one required operand:

PURGE *user*

user	The user to purge.
------	--------------------

### Example

Purges user DLM from JQP:

===> PURGE DLM

## REFRESH

The REFRESH command refreshes the current JQP display. Re-executes the command used to create the current display. For the MENUx commands used internally to build the JQP definition menus, attempts to display the same page. For other commands the first page resulting from the command displays.

## RESTART

Restarts the printing of a report in the JQP Print Work Queue with a status of HALTED or FAIL-xx.

For VTAM printers, the report begins printing from the last page successfully printed when the HALT or failure was detected unless a data set and line number are provided.

For TCP/IP printers, the report begins printing from the first page of the report unless a data set and line number are provided.

RESTART has three operands:

```
RESTART [destination|ALL], [dataset,line]
```

destination	The destination for reports in a failed or halted status restart or use a '*' in any position of the destination name to restart all destinations matching the generic mask. Specify ALL to restart all reports in a failed or halted status.
dataset,Line	The data set number within the group and line number within the data set to start printing the report.

### Example

To restart printing the report selected with destination IP05, issue the following command:

```
===> RESTART IP05
```

To restart printing the report selected with destination IP05 starting with line number 1 in the third JES data set within the job, issue the following command:

```
===> RESTART IP05,3,1
```

**Note: Use SDSF, IOF or a similar type product to identify the proper data set number and line number to begin printing the report.**

## RESTARTJ

This command is for TCP/IP “open socket” printers supporting PJI. Restarts the printing of a report in the JQP Print Work Queue with a status of HALTED or FAIL-xx. Begin printing the report from the last page successfully printed when the HALT or failure is detected. Optionally, specify the page number to start printing and/or the page number to stop printing.

RESTARTJ has one required and two optional operands:

RESTARTJ *destination*, [*start*], [*end*]

destination	The destination for reports in a failed or halted status restarts. No generic destination support is available. This operand is required.
Start	The page number to start printing. Specify either a page number or a plus or minus adjustment based upon the last page successfully printed. This operand is optional.  Note: When the starting page number is greater than the number of pages in the report, no output prints. When the starting page number is less than zero, printing begins from the first page of the report.
End	The page number to stop printing. This operand is optional.  Note: When the ending page number is before the start page number, no output prints.

### Example

To restart printing for destination IP05 from the last printed page, issue the following command:

```
====> RESTARTJ IP05
```

To restart printing for destination IP05 starting with page number 5, issue the following command:

```
====> RESTARTJ IP05, 5
```

To restart printing for destination IP05 starting with page number 5 and ending with page 10, issue the following command:

```
====> RESTARTJ IP05, 5, 10
```

To restart printing for destination IP05 from the last printed page minus two pages, issue the following command:

```
====> RESTARTJ IP05, -2
```

To restart printing for destination IP05 from the last printed page plus ten pages, issue the following command:

```
====> RESTARTJ IP05, +10
```

## RESTARTP

Restarts the printing of a report in the JQP Print Work Queue with a status of HALTED or FAIL-xx.

For VTAM printers, the report begins printing from the last page successfully printed when the HALT or failure was detected unless a data set and page number are provided.

For TCP/IP printers, the report begins printing from the first page of the report unless a data set and page number are provided.

RESTARTP has three operands:

```
RESTARTP [destination|ALL], [dataset,page]
```

destination	The destination for reports in a failed or halted status are restarted or use a '*' in any position of the destination name to restart all destinations matching the generic mask. Specify ALL to restart all reports in a failed or halted status.
dataset,page	The data set number within the group and page number within the data set to start printing the report.

### Example

To restart printing the report selected with destination IP05, issue the following command:

```
====> RESTARTP IP05
```

To restart printing the report selected with destination IP05 starting with page number 5 in the third JES data set within the job, issue the following command:

```
====> RESTARTP IP05,3,5
```

**Note: Use SDSF, IOF or a similar type product to identify the proper data set number and page number to start printing the report.**

**Note: The report to restart must have Machine Carriage Control (MCC) or ASA Printer Control Characters.**

## **RETRIEVE**

The RETRIEVE command retrieves the last command entered and places it in the command field. Subsequent RETRIEVE commands without any intervening activity retrieves older commands.

## RIGHT

For JQP Displays with more than 80 columns of information, displays the right section of the information.

### Example

Display the right section of the JQP information:

===> RIGHT

### Sample Display

```
JQPFDIPL  JES QUEUE FOR PRINTERS
===> _____

PRT: LPD1  DST: LPD1  JOB: JQP24 ,STC08253,2.1.1
-----
-- Top of Display --
JQPRPRIP01 ** PRINTING ON PRINTER LPD1  STARTED,    46,456 LINES
          JOB=JQP24  ID=STC08253 GRP=2.1.1
          DEST=LPD1  USER=JQP  XWTR=
JQPRPRIP10 ** REPORT SPOOLING TO DASD IS STARTING **
JQPRDYNA02 ** DD=JQP00001 MACS.JQP00001.LPD1.JQP24.STC08253
JQPRPRSL01 ** MODULE "HPIVP12" NOT FOUND **
JQPRPRIP10 ** REPORT SPOOLING TO DASD IS COMPLETE **
JQPRPRIP11 ** CONNECTING TO HOST:192.168.1.105  PORT:515 **
JQPRIPRC01 ** TCP/IP CONNECT  FAILED  PRINTER:LPD1  **
JQPRIPRC02 ** TCP/IP RC:-0000001 ERRNO: 0000060 PRINTER:LPD1  **
JQPRPRIP09 ** PORT CONNECTION REFUSED, TRYING AGAIN IN 240 SECONDS **
JQPRPRIP11 ** CONNECTING TO HOST:192.168.1.105  PORT:515 **
-- End of Display --

COMMANDS:
PF1-HELP PF3-END PF7-BACKWARD PF8-FORWARD PF10-LEFT PF11-RIGHT
```

# RIPPLE

Use RIPPLE to send a ripple pattern to the printer. This command can be used to verify the JQP printer and destination is setup properly and ready for use. This command will create a report in the JES Output Queue for the JQP printer. After the report is printed, the disposition of the report will depend upon the destination DISP parameter.

The printer must be in an **IDLE** status.

The destination associated with the printer must be in a **WAITING** status.

**The RIPPLE command does not support destinations with a non-blank Job Name Selection.**

RIPPLE has five operands.

RIPPLE *printer,destination,pagedef,formdef,pages*

Printer	Specify the name of the printer the ripple pattern is sent to. This operand is required.
Destination	Optionally, specify the name of the destination associated with the printer. When this operand is not specified, the first destination associated with the printer is used.
PAGEDEF	Optionally, specify the AFP PAGEDEF parameter with or without the P1 prefix.
FORMDEF	Optionally, specify the AFP FORMDEF parameter with or without the F1 prefix.
Pages	Optionally, specify the number of ripple pages (1 to 10) to print.

### Examples:

Send the ripple pattern to printer IP05 using the first destination associated with the printer.

```
===> RIPPLE IP05
```

Send the ripple pattern to printer IP05, destination IP05L.

```
===> RIPPLE IP05, IP05L
```

Send the ripple pattern to printer IP05, first destination with PAGEDEF STD1 and FORMDEF IBM.

```
===> RIPPLE IP05, ' ', STD1, IBM
```

Send the ripple pattern (three pages) to printer IP05, destination IP05.

```
===> RIPPLE IP05, IP05, ' ', ' '3
```

### Sample Output

```
JES Queue for Printer          09/13/2012 15:23:55
TEST PRINT FOR PRINTER=IP05  DEST=IP05  USER=DLM1  PAGE=1

!"#$%()*+,-./0123456789;<=>?@ABCDEFGHIJKLMNopqrstuvwxyz \_`abcdefghijklmnopqrstuvwxyz
!"#$%()*+,-./0123456789;<=>?@ABCDEFGHIJKLMNopqrstuvwxyz \_`abcdefghijklmnopqrstuvwxyz
!"#$%()*+,-./0123456789;<=>?@ABCDEFGHIJKLMNopqrstuvwxyz \_`abcdefghijklmnopqrstuvwxyz
!"#$%()*+,-./0123456789;<=>?@ABCDEFGHIJKLMNopqrstuvwxyz \_`abcdefghijklmnopqrstuvwxyz
!"#$%()*+,-./0123456789;<=>?@ABCDEFGHIJKLMNopqrstuvwxyz \_`abcdefghijklmnopqrstuvwxyz
!"#$%()*+,-./0123456789;<=>?@ABCDEFGHIJKLMNopqrstuvwxyz \_`abcdefghijklmnopqrstuvwxyz
!"#$%()*+,-./0123456789;<=>?@ABCDEFGHIJKLMNopqrstuvwxyz \_`abcdefghijklmnopqrstuvwxyz
!"#$%()*+,-./0123456789;<=>?@ABCDEFGHIJKLMNopqrstuvwxyz \_`abcdefghijklmnopqrstuvwxyz
!"#$%()*+,-./0123456789;<=>?@ABCDEFGHIJKLMNopqrstuvwxyz \_`abcdefghijklmnopqrstuvwxyz
!"#$%()*+,-./0123456789;<=>?@ABCDEFGHIJKLMNopqrstuvwxyz \_`abcdefghijklmnopqrstuvwxyz
```

## SEGMENT

Use SEGMENT to spin the JQPLOG SYSOUT data set.

SEGMENT has one optional operand. When the optional operand is not used, JQPLOG is assumed.

SEGMENT {JQPLOG}

JQPLOG	JQP main task SYSOUT data set.
--------	--------------------------------

### Example

Segment the JQPLOG SYSOUT data set:

```
===> SEGMENT JQPLOG
```

## SET

Use SET to assign a command to a key (PF1, PA1, etc.).

SET has two operands:

SET *key, cmd*

KEY	Key the command string is assigned. Enter one of the following: <ul style="list-style-type: none"><li>• PF1 through PF24</li><li>• PA1 through PA3</li></ul>
CMD	Command to assign to KEY. This operand is required.

The SET command assigns a JQP command to a key.

Initial command assignments for keys are set by issuing SET commands in a logon macro. Reference [Section 3.5 JQPFDFMC Logon Macro Table](#).

### Example

Set PF3 to end the current JQP display:

```
===> SET PF3, 'END'
```

## SHOW

Use SHOW to display JQP control variables.

SHOW has no operands.

SHOW may also be issued from the system console.

### Example

Display JQP control variables.

====> SHOW

### Sample display:

```
JQPFDIDI  JES QUEUE FOR PRINTERS
====> _____

-- Top of Display --
-----
DESCRIPTION      VALUE
-----
ACTIVE PRINTER(S)      1
ACTIVE PRINTER(S) LIMIT  0

MAX USERS ALLOWED      12
USERS LOGGED ON        1
USERS MAX LOGGED ON    2

MAX TASKS ALLOWED      60
TASKS AVAILABLE        53
TASKS MAX USED         7
TASKS GETMAIN (K)     480

SUBTASK(S) ALLOCATED    3
SUBTASK(S) AVAILABLE    2
SUBTASK(S) MAX USED     1

PF1-HELP PF3-END PF7-BACKWARD PF8-FORWARD
```

## SHUT

Use the SHUT command to terminate the JQP system.

SHUT has one optional operand.

SHUT [IMMED]

IMMED	Optional operand to immediately shutdown JQP. Use this option after a normal SHUT command fails to terminate JQP. When using this option, VTAM messages appear for any session not closed before the command was issued. An A03 ABEND ends the JQP subtask.
-------	---

### Examples

Normal JQP shutdown:

```
===> SHUT
```

Immediate JQP shutdown:

```
===> SHUT IMMED
```

# START

Use START to inform JQP a printer or destination is available for use. After the START command is issued, JQP begins printing any reports for the printer or destination. Starting a printer automatically starts all destinations assigned to the printer with a Istatus=Active.

START has the following formats.

```
START printer
START @group
START P,printer
START D,destination
START V,printer
START T,printer
```

← START only VTAM type printers.  
← START only TCP/IP type printers.

Printer	Specify the printer or destination name now available to JQP or use a '*' in any position of the printer or destination name to make available all printers or destinations matching the generic mask. Specify a printer group name (starting with the character "@") to start all printers assigned to the group.
Destination	Specify the name of the destination now available for JQP to use or use a '*' for a generic representation to start all destinations with the prefix.

## Example

Make printer P02 available for JQP to use:

```
====> START P02
```

Make destination P02 available for JQP to use:

```
====> START D,P02
```

**Note:** When the START command is equated to a PFKey and the LIBRARYP display is currently on the screen, issue the START command for a printer by positioning the cursor on the line of the printer and pressing the PFKey.

# STATS

Use STATS to display printing statistics to the terminal or write the printing statistics to the JQPLOG. Statistics include total jobs, data sets, pages and lines printed.

STATS command has the following formats.

```
STATS [printer,LOG|RESET|JQPSTAT]
```

Printer	Specify the printer name to limit the display to only a single printer or use a '*' in any position of the printer name to display all printers matching the generic mask. When this operand is not specified, all printers defined to JQP display.
LOG	Optionally, use the LOG parameter to write the printing statistics to the JQPLOG.
RESET	Optionally, use the RESET parameter to reset the printing statistics.
JQPSTAT	Optionally, use the JQPSTAT parameter to write the printing statistics to the JQPSTAT data set. Each time this option is used, a new JQPSTAT data set is dynamically allocated.

## Example(s)

Display statistics for all printers beginning with P02 on the terminal:

```
====> STATS P02*
```

Write the statistics for all printers to the JQPLOG:

```
====> STATS *,LOG
```

Write the statistics for all printers to the JQPSTAT dynamically allocated data set:

```
====> STATS *,JQPSTAT
```

Reset the statistics for all printers beginning with P02.

```
====> STATS P02*,RESET
```

# STOP

Use STOP to inform JQP a printer is now unavailable for use. Any reports currently printing finish printing and any reports waiting to print do not start printing until the START command is issued for the printer. Stopping a printer automatically stops all destinations assigned to the printer.

STOP has the following formats.

- STOP *printer*, [F|FORCE]
- STOP @*group*, [F|FORCE]
- STOP V,*printer*, [F|FORCE]      ← STOP only VTAM type printers.
- STOP T,*printer*, [F|FORCE]      ← STOP only TCP/IP type printers.

Printer	Specify the printer name now unavailable to JQP to use or use a '*' in any position of the printer name to make unavailable to JQP all printers matching the generic mask. Specify a printer group name (starting with the character "@") to stop all printers assigned to the group.
F FORCE	Specify the force option. Printing stops immediately and all destinations assigned to the printer drain.

### Example

Make printer P02 unavailable for JQP to use:

```
====> STOP P02
```

**Note:** When the STOP command is equated to a PFKey and the LIBRARYYP display is currently on the screen, issue the STOP command for a printer by positioning the cursor on the line of the printer and pressing the PFKey.

# TCP

The TCP command has two formats.

### Format one:

The TCP command dynamically terminates a TCP call in progress.

TCP CANCEL, #

CANCEL	Terminate a TCP call in progress.
#	The subtask number whose TCP call in progress should terminate. Obtain this number from the STATUS column of the LIBRARYT command display immediately after the literal SUB.

### Example

Using the display from the LIBRARYT command below, cancel the TCP call in progress to printer IP01 with the command "TCP CANCEL,3":

```
JQPFIDIDI      MacKinney Systems
===> TCP CANCEL,3
-----
-- Top of Display --
-----
TASK CTL      TASK  STATUS  PHYSICAL  USER  ROUTINE
  ADDR      NUMBER
-----
0004E280      63  ACTIVE  T01B     SYSTEM  JQPCLIBT
0004E680      4  WAIT   CONSOLE  CONSOLE  JQPROCDR
0004E200      60  WAIT   IP01
                                JQPRTCPC
                                JQPRPRIP
                                JQPRPRNT
0004EA00      60  SUB3   IP01
                                JQPRTCPT
                                JQPRIPSO
-- End of Display --
```

### Format two:

The TCP command dynamically changes the number of subtasks JQP uses.

TCP SUBTASK, #

SUBTASK	Change the number of active subtasks.
#	The number of active subtasks JQP uses. This number cannot be greater than the number of subtasks allocated.

## TIME

The TIME command dynamically initiates the TIME facility. The TIME facility checks for printers requiring intervention.

The TIME facility is started automatically during JQP initialization and continues to execute while JQP is active. In the remote event the TIME facility appears inactive, use the TIME command to re-initiate it.

TIME has one operand:

TIME [ON]

ON	Immediately initiates the TIME facility.
----	--

## TOP

TOP displays the first screen of a display created by a command such as LIBRARYQ.

TOP may also be entered as T.

TOP has no operands.

### Example

Display the first screen.

==> TOP

## TRACE

Use the TRACE command to trace the data flow through JQP. TRACE is provided primarily for the benefit of MacKinney Systems to facilitate debugging.

TRACE may be issued from the system console.  
Trace output is directed to the JQPLOG SYSOUT data set.

### TRACE Physical Printer or Terminal

Trace the data flow between JQP and the physical printer or terminal.

This TRACE format has two operands.

```
TRACE [printer|terminal], [SHORT|FULL|OFF|TOGGLE]
```

Printer Terminal	Physical terminal or printer. This operand is required.
2 <sup>nd</sup> Operand	Option. Specify one of the following: SHORT     A description of the data stream is provided, but the actual data stream is not. FULL     Both a data stream description and the actual data stream is provided. OFF     Turns the trace off for the physical terminal or printer. TOGGLE   Toggles the trace option between FULL and OFF. When OPT is not entered, a value of SHORT is assumed.

#### Example

Trace the data flow, both description and data, for printer P02:

```
===> TRACE P02, FULL
```

### TRACE Sub System (SSI)

Trace the Sub System Interface (SSI) flow between JQP and z/OS.

This TRACE format has two operands.

```
TRACE SSI, [dest|ALL|OFF]
```

2 <sup>nd</sup> Operand	Destination name to trace. ALL   Trace all destinations. OFF   Terminate tracing. This operand is required.
-------------------------	--

#### Example

Trace the subsystem calls between JQP and z/OS for all destinations:

```
===> TRACE SSI, ALL
```

## TRACE RACF Security Calls

Trace the RACF security calls.

The following RACF security calls are traced:

RACF Profile Name List Routine (IRRPNL00) call.

RACF calls to set the user's attributes. This is controlled by the Control Table DYNUSER parameter 2<sup>nd</sup> option.

This TRACE format has two operands.

```
TRACE RACF, [ON|OFF]
```

2 <sup>nd</sup> Operand	Option for the trace. ON Initiate the trace. OFF Terminate tracing. Omit this option to toggle between ON and OFF.
-------------------------	---

### Example

Trace the buffer returned from the RACF security calls:

```
===> TRACE RACF, ON
```

## TRACE Data JES DCB and Records

Trace the DCB and record read from the JES spool.

**Note: The trace for the printer must also be active.**

This TRACE format has two operands.

```
TRACE DCB, [ON|OFF]
```

2 <sup>nd</sup> Operand	Option for the trace. ON Initiate the trace. OFF Terminate tracing. Omit this option to toggle between ON and OFF.
-------------------------	---

### Example

Trace the DCB and record returned from JES for printer IP01, following two steps are required.

Step 1, start trace for printer IP01:

```
===> TRACE IP01, FULL
```

Step 2, start DCB trace:

```
===> TRACE DCB, ON
```

## TRACE RPL for VTAM Devices

Trace the RPL for VTAM devices.

**Note: The trace for the VTAM terminal or printer must also be active.**

This TRACE format has two operands.

```
TRACE RPL, [ON|OFF]
```

2 <sup>nd</sup> Operand	Option for the trace. ON Initiate the trace. OFF Terminate tracing. Omit this option to toggle between ON and OFF.
-------------------------	---

### Example

Trace the RPL for VTAM type device VP01, following two steps are required.

Step 1, start trace for printer VP01:

```
==> TRACE VP01, FULL
```

Step 2, start RPL trace:

```
==> TRACE RPL, ON
```

## TRACE DYNALLOC (SVC99)

Trace the DYNALLOC (SVC99) text units for LPD temporary data sets.

This TRACE format has two operands.

```
TRACE SVC99, [ON|OFF]
```

2 <sup>nd</sup> Operand	Option for the trace. ON Initiate the trace. OFF Terminate tracing. Omit this option to toggle between ON and OFF.
-------------------------	---

### Example

Trace the DYNALLOC (SVC99) text units for LPD temporary data sets.

```
==> TRACE SVC99, ON
```

## TRACE SMF Type-6 Records

Trace the SMF Type-6 records written.

This TRACE format has two operands.

```
TRACE SMF, [ON|OFF]
```

2 <sup>nd</sup> Operand	Option for the trace. ON Initiate the trace. OFF Terminate tracing. Omit this option to toggle between ON and OFF.
-------------------------	---

### Example

Trace the SMF Type-6 records written.

```
===> TRACE SMF, ON
```

## TRACE BASE64 Encode/Decode

Trace the Base 64 Encode/Decode routine.

This TRACE format has two operands.

```
TRACE BASE64, [ON|OFF]
```

2 <sup>nd</sup> Operand	Option for the trace. ON Initiate the trace. OFF Terminate tracing. Omit this option to toggle between ON and OFF.
-------------------------	---

### Example

Trace the BASE64 Encode/Decode routine.

```
===> TRACE BASE64, ON
```

## TRACE OFF

Terminate off all JQP tracing.

This TRACE command format has one required operand.

```
TRACE OFF
```

### Example

Turn off all JQP tracing.

```
===> TRACE OFF
```

## UPDATE

The UPATE command toggles between "Display Mode" and "Update Mode". The command is only valid on JQP definition update screens.

## Section VI

### Problem Determination and Messages

#### 6.1 General Problem Considerations

**ABENDs:**

- S0C1** Failed JQP edit. Call MacKinney Systems with Dump available.
- S047** The JQP load library is not APF authorized.
- SA03** JQP was terminated with the immediate option.  
To prevent the SA03 ABEND dump, use following SLIP command:  
SLIP SET,COMP=A03,JOBNAME=JQPxx,ACTION=NODUMP,END  
Where JQPxx is the JQP job name or JQP started task name.

#### 6.2 Running JQP Traces

JQP provides a trace facility to aid MacKinney Systems and users in debugging data stream problems via its TRACE command. The JQP TRACE command writes the data stream for either a terminal or printer to the JQPLOG SYSOUT data set. Reference the [TRACE](#) command for syntax and optional parameters.

## 6.3 Running VTAM Traces

MacKinney Systems may require a VTAM Trace be run for debugging purposes. In most cases a VTAM BUFFER Trace (TYPE=BUF) is requested.

```
- Start GTF Trace with RNIO, USR, and IO options

- Issue VTAM TRACE Commands

  F NET,TRACE,TYPE=BUF,ID=terminal|printer

- Reproduce the problem

- Issue VTAM NOTRACE Commands

  F NET,NOTRACE,TYPE=BUF,ID=terminal|printer

- STOP GTF Trace

  EDIT RNIO,DDNAME=TAPE,USR=ALL
  END

  Use IPCS to print the VTAM TRACE. Use ACFTAP only when IPCS is not
  available.
```

### Example IPCS JCL to print the SYS1.TRACE data set.

```
// *****
// *      COPY CONTROL CARDS TO A TEMP FILE WITH LRECL=71      *
// *****
// *
//STEP010 EXEC PGM=IEBGENER
//SYSPRINT DD SYSOUT=*
//SYSIN DD DUMMY
//SYSUT1 DD *
  GTF DSN('SYS1.TRACE') RNIO USR(FE1,FE2,FEF,FF0,FF2)
/*
//SYSUT2 DD DSN=&&CONTROL,DISP=(,PASS),UNIT=VIO,SPACE=(TRK,1),
//          LRECL=71,BLKSIZE=7100
// *
// *****
// *      RUN IPCS IN TSO BACKGROUND TO PRINT TRACE      *
// *****
// *
//STEP020 EXEC PGM=IKJEFT01
//SYSPROC DD DSN=SYS1.SBLSCLIO,DISP=SHR
//IPCSPARM DD DSN=SYS1.PARMLIB,DISP=SHR
//IPCSDDIR DD DSN=SYS1.DDIR,DISP=SHR
//SYSTSPRT DD SYSOUT=*
//IPCSTOC DD SYSOUT=*
//IPCSPRNT DD SYSOUT=*
//COMMAND DD DSN=&&CONTROL,DISP=(OLD,DELETE)
//SYSTEMSIN DD *
  %BLSCBSUQ SYS1.TRACE
  END
/*
```

```
- Email, FAX or Mail Trace output to MacKinney Systems
```

Reference IBM VTAM OPERATION MANUAL for more information on VTAM COMMANDS and your operating systems DIAGNOSTIC Manuals for more information on IPCS and GTF.

## 6.4 JES2 Message \$HASP186

The following is taken from the IBM manual z/OS V1R9.0 JES2 Diagnosis GA22-7531-07.

Follow the following steps to determine why JES2 issued a \$HASP186 message.

Set the DEBUG facility to monitor security related processing by issuing a \$TDEBUG,SECURITY=YES command when you receive a \$HASP186 message with no corresponding ICH408I message.

Perform the following action(s) as appropriate to generate another output selection:

### Recycle JQP

Note: When you do not perform any of the actions, JES2 remembers the output group is not eligible and does not issue another SAF request. JES2 only reissues the SAF request when you take one of the appropriate actions listed and JES2 subsequently attempts to select the output group for the same device or devices.

After you've taken the appropriate action(s) and recreated the conditions while DEBUG SECURITY=YES is set, RACF logs the access and issue messages such as the ICH408I message (RACF either issues the messages, or in cases requested by JES2, returns them to JES2 who then issues the messages).

Use the RACF messages accompanying the \$HASP186 message to determine why \$HASP186 was issued.

## 6.5 Abend-AID

In the event JQP does ABEND, the normal IBM dump is preferred and usually required to diagnose the problem. For installation utilizing Abend-AID, please include the following DD statement in the JQP startup JCL:

```
//ABNLIGNR DD DUMMY
```

The ABNLIGNR DD statement suppresses Abend-AID and allows the normal IBM dump processing.

## 6.6 Printing the Wrong Character

In the event the wrong character is printing (i.e. British Pound sign, cent sign, etc.), follow the procedure below.

1. Identify the hexadecimal character in the report printing incorrectly.
2. Edit the JQP destination and record the "Setup Options" parameters.
3. Change the JQP destination "Setup Options" to the following: Setup Options ==> HP2CHARS Y 0
4. Issue the JQP command: RIPPLE printer,destination  
The characters x'20' to x'FF' are printed before the RIPPLE report.
5. Scan the output for the character printing incorrectly.
6. Make the necessary changes to the Translate Table defined in the JQP destination (i.e. JQPFTTP4).
7. Edit the JQP destination and revert to the parameters recorded in step 2.

## 6.7 TLS or SSL Trace

In order to capture TLS or SSL CTRACE, you must have an SSL Server and a CTRACE writer running. The following JCL samples can be used for the SSL Server task (GSKSRVR) and the CTRACE writer (GSKWTR):

```
//GSKSRVR  PROC  REGSIZE=256M,OUTCLASS='H'
//*****
//* Procedure for starting the System SSL Server                                *
//*****
//GO      EXEC  PGM=GSKSRVR,REGION=&REGSIZE,TIME=1440,
//  PARM= ('ENVAR ("HOME=/etc/gskssl/server"),TERM(DUMP)                      X
//      / 1>DD:STDOUT 2>DD:STDERR')
//STDOUT  DD  SYSOUT=&OUTCLASS,DCB=LRECL=250,
//      FREE=END,SPIN=UNALLOC
//STDERR  DD  SYSOUT=&OUTCLASS,DCB=LRECL=250,
//      FREE=END,SPIN=UNALLOC
//SYSOUT  DD  SYSOUT=&OUTCLASS,
//      FREE=END,SPIN=UNALLOC
//*CEEDUMP DD  SYSOUT=&OUTCLASS,
//*      FREE=END,SPIN=UNALLOC
```

Note: The SSL Server task (GSKSRVR) can be started at IPL time and left running. It provides valuable services to users of SSL on the LPAR.

```
//GSKWTR   PROC
//*-----*//
//* MODELED AFTER hlq.SGSKSAMP (GSKWTR) AND CUSTOMIZED.                    *//
//*-----*//
//IEFPROC EXEC PGM=ITTTTRCWR,REGION=32M
//TRCOUT01 DD DSN=<your.dataset.name.here>,DISP=(NEW,CATLG),
//      SPACE=(CYL,(100)),UNIT=SYSDA
```

Note: The trace writer proc (GSKWTR) must be stored in a system PROCLIB. This is not the same as a JES2 or JES3 PROCLIB. Trace writers must be in a dataset that is part of the IEFPSI PROCLIBs in MSTJCL00.

With GSKSRVR running, you can then capture and format SSL CTRACE:

Start the trace writer proc with the console command:

```
TRACE CT,WTRSTART=GSKWTR
```

Start SSL CTRACE with the console command:

```
TRACE CT,ON,COMP=GSKSRVR
```

Reply to the outstanding reply:

```
R xx,JOBNAME=(yourjob),OPTIONS=(LEVEL=255),WTR=GSKWTR,END
```

Recreate the error or event that you want to trace.

Stop SSL CTRACE with the console command:

```
TRACE CT,OFF,COMP=GSKSRVR
```

Stop the trace writer proc with the console command:

```
TRACE CT,WTRSTOP=GSKWTR
```

Format the trace dataset by using IPCS option 2.7.1 and the command:

```
CTRACE COMP(GSKSRVR) FULL
```

For more information on SSL CTRACE, see Capturing Component Trace Data in the z/OS Cryptographic Services System Secure Sockets Layer Programming (SC24-5901) manual.

## 6.8 JQP Error Messages

The following is a list of all error messages JQP may display along with additional information about the error condition:

### JQPCCHAN01 \*\* *type RECORD key response*

Explanation: The CHANGE command was entered and JQP is displaying the response to the message.

### JQPCCHAN03 \*\* *change command*

Explanation: The CHANGE command was entered and JQP is writing the command in the JQPLOG.

### JQPCCHAN04 \*\* *type PARAMETER IS status*

Explanation: The CHANGE command was entered and JQP is displaying the status to the message.

### JQPCCNSL01 \*\* CONSOLE COMMAND TEXT IS REQUIRED

Explanation: The CNSL command was entered without a command to process.

### JQPCCNSL02 \*\* *command text*

Explanation: Informational only, console command text.

### JQPCCNSL03 \*\* CNSL COMMAND NOT ALLOWED FROM COMMAND LINE

Explanation: For security purposes, the CNSL command is not allowed in the JQP command line.

### JQPCCNSL04 \*\* USER SECURITY TOKEN FAILURE, RC=X

Explanation: The Control Table (JQPFDCT) SECURE parameter is configured to use the UTOKEN on the MGCRC macro to issue console commands. The UTOKEN is not available. Verify the user has successfully signed onto JQP using with a user ID and password.

RC=1 - The ACEE for the user is not available.

RC=2 - The ACEE does not contain the UTOKEN address.

### JQPCCONN01 \*\* CONNECTED TO VTAM

Explanation: The CONNECT command was entered and JQP has successfully opened its VTAM ACB.

### JQPCCONN02 \*\* ALREADY CONNECTED TO VTAM

Explanation: The CONNECT command was entered, but JQP is already connected to VTAM (i.e., its ACB is already open).

**JQPCDELE01 \*\* *type* RECORD *status***

Explanation: The DELETE command was entered and JQP is displaying the status to the message.

**JQPCDELE04 \*\* *type* PARAMETER IS *response***

Explanation: The DELETE command was entered and JQP is displaying the response to the message.

**JQPCDISC01 \*\* VTAM CONNECTION SEVERED**

Explanation: The DISCONN command was entered and JQP has successfully closed its VTAM ACB.

**JQPCDISC03 \*\* DISCONN COMMAND ALLOWED AT CONSOLE ONLY**

Explanation: The DISCONN command can only be entered from the system console, command ignored.

**JQPCDRAI01 \*\* DESTINATION OPERAND REQUIRED**

Explanation: The DRAIN command requires the destination name to drain.

**JQPCDRAI02 \*\* DESTINATION *destination* NOT FOUND**

Explanation: The destination to drain, as displayed in the message, was not found.

**JQPCDRAI03 \*\* DESTINATION *destination* NOT HALTED**

Explanation: The status of the destination, as displayed in the message, must be HALTED.

**JQPCDRAI06 \*\* DESTINATION *destination* DRAINED**

Explanation: DRAIN event logged to the JQPLOG data set for the destination, as displayed in the message.

**JQPCDRAI09 \*\* NUMBER OF DESTINATIONS DRAINED = *total***

Explanation: The DRAIN command has successfully drained the number of destinations displayed in the message.

**JQPCEXEC01 \*\* EXECUTE HAS FINISHED, CHECK LOG FOR RESULTS**

Explanation: The EXEC command has completed. Check the JQPLOG for detailed messages from the commands contained in the source member.

**JQPCEXEC02 \*\* *ddname function* FAILED, MEMBER=*member* RC =*rc***

Explanation: The EXEC command has failed for the member displayed in the message.

**JQPCEXEC03 \*\* *command***

Explanation: The EXEC command was entered and JQP is writing the command in the JQPLOG.

**JQPCEXEC04 \*\* MEMBER NAME IS REQUIRED**

Explanation: The EXEC command requires the member name containing the JQP commands to execute.

**JQPCFILT01 \*\* FILTER COMMAND IS NOT VALID FOR THIS SCREEN**

Explanation: The FILTER command is not supported on the current JQP screen.

**JQPCFIND01 \*\* STRING '*string*' NOT FOUND**

Explanation: The parameter string (first 32 bytes displayed in the message) was not found.

### JQPCHALT01 \*\* DESTINATION OPERAND REQUIRED

Explanation: The HALT command requires the destination to halt.

### JQPCHALT03 \*\* DESTINATION *destination* NOT FOUND

Explanation: The destination to halt, as displayed in the message, was not found.

### JQPCHALT04 \*\* DESTINATION *destination* STATUS IS INVALID

Explanation: The status of the destination, as displayed in the message, must be WAITING, READY, COMPLETE, RESTART, or STARTING.

### JQPCHALT06 \*\* DESTINATION *destination status*

Explanation: HALT event, as displayed in the message, logged to the JQPLOG data set for the destination displayed in the message.

### JQPCHALT09 \*\* NUMBER OF DESTINATIONS HALTED = *total*

Explanation: The HALT command has successfully halted the number of destinations displayed in the message.

### JQPCLIBP01 \*\* COMMAND LIBPX REQUIRES TERM OPERAND

Explanation: The command LIBPX was entered without a physical terminal name. Physical terminal name is required.

### JQPCLIBP02 \*\* GENERIC TERM NOT ALLOWED FOR LIBPX COMMAND

Explanation: A generic physical terminal name was entered for the LIBPX command, but a generic physical terminal name is not allowed.

**JQPCLIBQ01 \*\* COMMAND LIBQX REQUIRES PRINTER OPERAND**

Explanation: The LIBQX command requires the printer name to display.

**JQPCLIBQ02 \*\* GENERIC TERM NOT ALLOWED FOR LIBQX COMMAND**

Explanation: A generic printer name was entered for the LIBQX command, but a generic printer name is not allowed.

**JQPCLIBX01 \*\* TRANSFORM WORK QUEUE \$CLEAR REQUEST FOR DEST:*destination***

Explanation: The LIBRARYX command \$CLEAR option has been requested to purge all Transform Work Queue entries and the corresponding MPT transformed data sets on the JES Held queue for the displayed destination.

### **JQPCMAIL03 \*\* EMAIL STATUS IS *status***

Explanation: Informational message, displays the status of the email notification feature.

### **JQPCMAIL04 \*\* EMAIL TRACE IS *status***

Explanation: Informational message, displays the status of the email notification trace.

### **JQPCMAIL05 \*\* EMAIL EXPIRE TOTAL=*number***

Explanation: Informational message, displays the number email notification request set to expire.

### **JQPCMAIL06 \*\* EMAIL JQPLOG IS NOT *status***

Explanation: The EMAIL command has requested the email JQPLOG feature to start, stop, send, un-allocate or cleared. The email JQPLOG feature is not in the proper status to allow the command to complete. Review the email JQPLOG status and issue the proper EMAIL command to achieve the desired status.

### **JQPCMAIL07 \*\* EMAIL JQPLOG IS *status*, PRINTER=*printer***

Explanation: Informational only; the EMAIL command has placed the email JQPLOG feature for the printer in the status displayed in the message.

### **JQPCMAIL08 \*\* CONTROL TABLE PARAMETER "MAILHOST" IS MISSING**

Explanation: The "EMAIL START" command requires the MAILHOST parameter be specified in the Control Table JQPFDFCT.

**JQPCMIGR01 \*\* TABLE NAME IS REQUIRED**

Explanation: The MIGRATE command requires the name of the table to migrate.

**JQPCMIGR02 \*\* TABLE *table* IS INVALID**

Explanation: The table displayed in the message is not a valid table to migrate.

**JQPCMIGR03 \*\* TABLE *table* MIGRATION *status***

Explanation: The migration status for the table is displayed in the message.

**JQPCMIGR04 \*\* *table* ENTRY *name status***

Explanation: Status of the migration process for the table entry is displayed in the message.

**JQPCMIGR05 \*\* MIGRATE INITIALIZATION *status***

Explanation: Status of the migration initialization process is displayed in the message.

**JQPCMIGR06 \*\* MIGRATE HAS FINISHED, CHECK LOG FOR RESULTS**

Explanation: The migration process has completed, check the JQPLOG for more details.

**JQPCMOUN01 \*\* FORM "*formid*" MOUNTED ON PRINTER *printer***

Explanation: The MOUNT command has successfully mounted the form displayed in the message on the printer displayed in the message.

**JQPCMOUN02 \*\* PRINTER OPERAND REQUIRED**

Explanation: The MOUNT command requires the printer name where the form is mounted.

**JQPCMOUN03 \*\* FIRST OPERAND *parameter* IS NOT A PRINTER**

Explanation: The MOUNT command printer parameter entered, as displayed in the message, is not defined to JQP as a printer.

**JQPCMOUN04 \*\* PRINTER *parameter* NOT FOUND**

Explanation: The MOUNT command printer parameter entered, as displayed in the message, is not defined to JQP.

**JQPCMOUN05 \*\* INTERNAL 128 BUFFERS SHORTAGE**

Explanation: An internal 128 buffer shortage has been detected during the MOUNT command.

**JQPCMOUN07 \*\* PRINTER *printer* IS ACTIVE**

Explanation: The MOUNT command printer parameter entered, as displayed in the message, is currently printing a report. Stop the printer or wait until the current job is printed before entering the MOUNT command again.

#### JQPCMPTX01 \*\* FUNCTION PARAMETER REQUIRED

Explanation: The MPT command requires the MPT server function to perform.

#### JQPCMPTX02 \*\* UNKNOWN MPT SERVER FUNCTION ENTERED

Explanation: The MPT server function entered is not a valid

#### JQPCMPTX03 \*\* MPT SERVER SUPPORT IS NOT AVAILABLE

Explanation: The MPT print transforms are currently not supported by JQP.

#### JQPCMPTX04 \*\* PORT=*number* PING=*response*

Explanation: The primary or secondary MPT server PING response is displayed in the message.

#### JQPCMPTX05 \*\* [HOST=*hostname* | ADDRESS=*xxx.xxx.xxx.xxx*]

Explanation: Informational only, displays the MPT server's TCP/IP host name or host address.

#### JQPCMPTX06 \*\* FUNCTION "*TCP/IP request*" HAS FAILED, PORT=*number*

Explanation: The TCP/IP communication request to the MPT primary or secondary server has failed.

#### JQPCNEWC01 \*\* NEW COPY OF MODULE *module* LOADED

Explanation: NEWCOPY command has successfully refreshed the module displayed in the message.

#### JQPCNEWC02 \*\* UNABLE TO NEW COPY MODULE *module*

Explanation: Usually indicates the JQP load library has gone into an additional extent while JQP was executing. This can cause severe errors. Ensure the JQP load library is defined with zero secondary extents.

#### JQPCNEWC03 \*\* MODULE *module* NOT VALID FOR NEWCOPY

Explanation: The NEWCOPY command has specified a valid JQP module name; however, this module cannot be refreshed with the NEWCOPY command. JQP must be terminated and then restarted to refresh the module.

#### JQPCNEWC04 \*\* MODULE NAME OPERAND REQUIRED

Explanation: The NEWCOPY command was entered without a module name. Module name is required.

## JQPCPING01 \*\* HOST NAME OR HOST ADDRESS OPERAND REQUIRED

Explanation: The PING command syntax is incorrect. The first parameter (host name or host address) is required. Review the PING command syntax and retry the PING command.

## JQPCPING03 \*\* UNKNOWN HOST "*host name*"

Explanation: JQP was unable to resolve the host name to a host address using the DNS. The first 40 bytes of the unknown host is displayed in the message. Verify the host name using the TSO NSLOOKUP command and retry the PING command.

## JQPCPRNT02 \*\* PRINTER *printer* NOT AVAILABLE

Explanation: JQP cannot acquire the printer displayed in the message.

Check the following:

1. Another application is currently printing on the printer.
2. Another application 'owns' the printer and does not release it.  
(In the case of CICS, verify the printer TCT has the RELREQ=(YES,YES) parameter).
3. Ensure the AUTH=ACQ is on the JQP APPL statement in your VTAM definitions. (See VTAM definitions)

## JQPCPRNT03 \*\* DEVICE *printer* IS NOT A PRINTER

Explanation: The printer displayed in the message has not been defined to JQP as a printer.

## JQPCPRNT04 \*\* PRINTER *printer* INITIATED

Explanation: The PRINT command has successfully acquired the printer displayed in the message and has started the report selection process.

## JQPCPRNT05 \*\* PRINTER OPERAND REQUIRED

Explanation: The PRINT command was entered without a printer name.

## JQPCPRNT06 \*\* PRINTER *printer* STATUS IS *status*

Explanation: PRINT event, as displayed in the message, logged to the JQPLOG data set for the printer displayed in the message.

## JQPCPURG01 \*\* USER OPERAND REQUIRED

Explanation: The PURGE command was entered without a user-id operand. The user-id operand is required.

## JQPCPURG02 \*\* USER *user* NOT LOGGED ON

Explanation: The PURGE command was entered for a user who is not currently logged on to JQP.

## JQPCPURG03 \*\* LOGGED ON AS SPECIFIED USER

Explanation: The PURGE command was entered for the same user doing the PURGE command. Purging your own user-id is not allowed.

## JQPCPURG06 ACTIVE TASK(S) FOR USER *user*, SEE PURGE COMMAND

Explanation: The PURGE command was entered for a user who has an active JQP task. The JQP task must complete before the user can be purged from JQP.

JQPCPURG10 \*\* PURGE ISSUED FOR USER *user* BY USER *user*

Explanation: The PURGE command was issued for the user displayed in the message.

JQPCREFR01 \*\* REFRESH NOT VALID FOR THIS SCREEN

Explanation: The REFRESH command is not valid for the screen currently displayed.

JQPCREST01 \*\* DESTINATION OPERAND REQUIRED

Explanation: The RESTART command requires the destination for the report to restart.

JQPCREST02 \*\* DSID# AND/OR LINE# IS NOT NUMERIC

Explanation: The restart data set number and line must be numeric.

JQPCREST03 \*\* [DESTINATION|PRINTER] *destination|printer* NOT FOUND

Explanation: The destination or printer to restart, as displayed in the message, was not found.

JQPCREST04 \*\* [DESTINATION|PRINTER] *destination|printer* STATUS IS INVALID

Explanation: The status of the destination or printer, as displayed in the message, must have a status of FAIL-xx or HALTED.

JQPCREST05 \*\* DESTINATION *destination* RESTART SUCCESSFUL

Explanation: The restart for destination, as displayed in the message, has successfully been restarted.

JQPCREST09 \*\* NUMBER OF DESTINATIONS RESTARTED = *total*

Explanation: The RESTART command has successfully restarted the number of destinations displayed in the message.

## JQPCRIPP02 \*\* PAGE NUMBER PARAMETER IS INVALID

Explanation: The RIPPLE command was entered with an invalid number of pages. The number of pages is the 3<sup>rd</sup> parameter. Valid values are 1 to 10.

## JQPCRIPP03 \*\* DEVICE *printer* IS NOT A PRINTER

Explanation: The printer displayed in the message has not been defined to JQP as a printer.

## JQPCRIPP04 \*\* PRINTER *printer* NOT IDLE

Explanation: The status of the printer, as displayed in the message, must have a status of IDLE.

## JQPCRIPP06 \*\* PRINT TEST STARTED, PRINTER=*printer* DEST=*destination*

Explanation: The report to send the ripple pattern to the printer has been created in the JES Output Queue waiting for the JQP printer to begin printing.

## JQPCRIPP08 \*\* PRINTER *printer* NOT FOUND

Explanation: The RIPPLE command printer parameter entered, as displayed in the message, is not defined to JQP.

## JQPCRIPP14 \*\* DESTINATION *destination* NOT WAITING

Explanation: The status of the destination, as displayed in the message, must have a status of WAITING.

## JQPCRIPP18 \*\* DESTINATION *destination* NOT FOUND

Explanation: The RIPPLE command destination parameter entered, as displayed in the message, is not defined to JQP.

## JQPCRIPP19 \*\* DESTINATION *destination* JOB NAME SELECTION NOT SUPPORTED

Explanation: The destination displayed in the message has a non-blank Job Name Selection. The RIPPLE command does not support destination with a non-blank Job Name Selection.

## JQPCRIPP21 \*\* [DYNALLOC|DE-ALLOC] ERROR, R15=XX, S99I=XXXX, S99E=XXXX

Explanation: The dynamic allocation or de-allocation for the RIPPLE data set has failed with the return codes displayed in the message. The return codes can be found in the IBM manual z/OS MVS Auth Assembler Service Guide.

## JQPCRIPP23 \*\* [OUTADD|OUTDEL] ERROR, R15=*rc*, R0=*reason*, KEY=*key*

Explanation: The OUTADD or OUTDEL macro to add or delete the dynamic allocated OUTPUT statement has failed. The keyword reason codes (Register 0) can be found in the IBM manual z/OS MVS Authorized Assembler Services Reference OUTADD or OUTDEL macro Reason Codes for Return Code 04, 08, 0C and 10.

Rc	Register 15 return code
Reason	Register 0 reason code
Key	Register 1 key value
	0010 – Form
	001C – Writer
	000C – Destination
	0006 - Class

## JQPCRIPP31 \*\* RIPPLE [OPEN|CLOSE] ERROR, R15=*rc*

Explanation: The open or close for the RIPPLE DCB failed with the return code displayed in the message. The return codes can be found in the IBM manual DFSMS/MVS Macro Instructions for Data Sets.

## JQPCRSTJ01 \*\* DESTINATION OPERAND REQUIRED

Explanation: The RESTARTJ command requires the destination for the report to restart.

## JQPCRSTJ02 \*\* [*STARTING|ENDING*] PAGE NUMBER IS NOT NUMERIC

Explanation: The starting or ending page number must be numeric.

## JQPCRSTJ03 \*\* [DESTINATION|PRINTER] "[*destination|printer*]" NOT FOUND

Explanation: The destination or printer to restart, as displayed in the message, was not found.

## JQPCRSTJ04 \*\* DESTINATION *destination* STATUS IS INVALID

Explanation: The status of the destination, as displayed in the message, must have a status of FAIL-xx or HALTED.

## JQPCRSTJ05 \*\* JQPCRSTJ05 \*\* DEST "*destination*" RESTARTED, "*+start*" TO "*end*"

Explanation: The restart for destination, as displayed in the message, has successfully been restarted.

## JQPCRSTJ06 \*\* PRINTER "*printer*" DOES NOT SUPPORT PJL RESTART

Explanation: The printer assigned to the destination to restart does not support PJL.

## JQPCSEGM01 \*\* SEGMENT *sysout* COMPLETE

Explanation: The SEGMENT command has successfully segmented the SYSOUT data set.

## JQPCSEGM02 \*\* SEGMENT COMMAND FAILED, *sysout* ALLOC/UNALLOC ERROR

Explanation: The SEGMENT command has failed to either allocate or unallocate the SYSOUT data set displayed in the message.

## JQPCSEGM03 \*\* SEGMENT COMMAND FAILED, *sysout* DISABLED

Explanation: The SEGMENT command has failed for the SYSOUT data set displayed in the message. The SYSOUT data set is disabled and JQP does not log any new messages.

## JQPCSEGM04 \*\* SEGMENT COMMAND REQUIRES LOG PARAMETER

Explanation: The SEGMENT command requires the JQPLOG parameter.

## JQPCSEGM05 \*\* SEGMENT COMMAND INVALID LOG PARAMETER

Explanation: The SEGMENT command requires the JQPLOG parameter.

## JQPCSETX01 \*\* KEY *pfkey* SET

Explanation: The SET command has successfully set the terminal aid key displayed in the message.

## JQPCSETX02 \*\* KEY & CMD OPERANDS REQUIRED

Explanation: The SET command was entered, but without the required operands. Both the KEY and CMD operands must be provided.

## JQPCSETX03 \*\* KEY *pfkey* NOT FOUND

Explanation: The KEY specified with the SET command, as displayed in the message, is not recognized. Valid entries are PF1 through PF24 and PA1 through PA3.

**JQPCSHUT01 \*\* *applid* SHUTDOWN COMPLETE**

Explanation: JQP has successfully completed its shutdown procedure.

**JQPCSHUT02 \*\* *applid* SHUTDOWN BEGUN**

Explanation: The SHUT command has been issued and JQP is starting its shutdown procedure.

**JQPCSHUT03 \*\* *applid* SHUTDOWN ALREADY IN PROGRESS**

Explanation: The request to shutdown JQP can be issued only one time. Each additional request is ignored.

**JQPCSHUT04 \*\* *applid* IMMEDIATE SHUTDOWN REQUESTED**

Explanation: The request to shutdown JQP has been issued with the IMMEDIATE option.

**JQPCSTAT01 \*\* PRINTER "*printer*" STATISTICS RESET|LOG|JQPSTAT**

Explanation: The printing statistics for the printer are reset to zero, written to the JQPLOG or JQPSTAT file as displayed in the message.

## JQPCSTOP02 \*\* INTERNAL 128 BUFFERS SHORTAGE

Explanation: An internal 128 buffer shortage has been detected during the STOP command.

## JQPCSTOP03 \*\* DEVICE *printer* IS NOT A PRINTER

Explanation: The STOP command printer parameter entered, as displayed in the message, is not defined to JQP as a printer.

## JQPCSTOP04 \*\* PRINTER *printer* NOT STARTED

Explanation: The STOP command was entered for a printer not started.

## JQPCSTOP06 \*\* PRINTER *printer status*

Explanation: STOP event, as displayed in the message, logged to the JQPLOG data set for the report displayed in the message.

## JQPCSTOP08 \*\* PRINTER *printer* NOT FOUND

Explanation: The STOP command printer parameter entered, as displayed in the message, is not defined to JQP.

## JQPCSTOP09 \*\* PRINTER(S) STOPPED=*total* STOPPING=*total* FORCED=*total*

Explanation: The STOP command has successfully stopped the number of printers displayed in the message.

## JQPCSTOP10 \*\* ACCESS TO FORCE OPTION NOT ALLOWED

Explanation: The JQP user does not have access to use the FORCE option with the STOP command. Reference the Control Table (JQPFDFACT) [SECMENU](#) option.

## JQPCSTRT02 \*\* INTERNAL 128 BUFFERS SHORTAGE

Explanation: An internal 128 buffer shortage has been detected during the START command.

## JQPCSTRT03 \*\* DEVICE *printer* IS NOT A PRINTER

Explanation: The START command printer parameter entered, as displayed in the message, is not defined to JQP as a printer.

## JQPCSTRT04 \*\* PRINTER *printer* NOT STOPPED

Explanation: The START command printer parameter entered, as displayed in the message, does not have a status of stopped.

## JQPCSTRT06 \*\* PRINTER *printer* STARTED

Explanation: START event, as displayed in the message, logged to the JQPLOG data set for the report displayed in the message.

## JQPCSTRT08 \*\* PRINTER *printer* NOT FOUND

Explanation: The printer displayed in the message is not defined to JQP.

## JQPCSTRT09 \*\* NUMBER OF PRINTERS STARTED = *total*

Explanation: The START command has successfully started the number of printers displayed in the message.

## JQPCSTRT10 \*\* DESTINATION *destination* STARTED, PRINTER=*printer*

Explanation: START event, as displayed in the message, logged to the JQPLOG data set for the destination and printer displayed in the message.

**JQPCSTRT11 \*\* PRINTER *printer* IS STOPPED/STOPPING**

Explanation: The printer displayed in the message is either stopped or is stopping. The request to start a destination for a printer in stopped or stopping status is not allowed. The printer must be started before the destination can be started.

**JQPCSTRT12 \*\* ACTIVE PRINTER LIMIT EXCEEDED, PRINTER=*printer***

Explanation: The number of active printers allowed for this execution of JQP has been reached.

**JQPCSTRT14 \*\* DESTINATION *destination* NOT DRAINED**

Explanation: The START command destination parameter entered, as displayed in the message, does not have a status of drained.

**JQPCSTRT18 \*\* DESTINATION *destination* NOT FOUND**

Explanation: The destination displayed in the message is not defined to JQP.

**JQPCSTRT19 \*\* NUMBER OF DESTINATIONS STARTED = *total***

Explanation: The START command has successfully started the number of destinations displayed in the message.

### JQPCTCPX01 \*\* FUNCTION PARAMETER REQUIRED

Explanation: The TCP command requires two operands. Re-enter the TCP command with the required operands.

### JQPCTCPX02 \*\* UNKNOWN TCP/IP FUNCTION ENTERED

Explanation: The TCP command's first operand or command function is unknown. Re-enter the TCP command with a valid function.

### JQPCTCPX03 \*\* CANCEL FUNCTION REQUIRES SUBTASK NUMBER

Explanation: The TCP command's second operand or subtask number is required. Re-enter the TCP command with a valid function and subtask number.

### JQPCTCPX04 \*\* CANCEL FUNCTION SUBTASK NUMBER NOT NUMERIC

Explanation: The TCP command's second operand or subtask number is not numeric. Re-enter the TCP command with a valid function and subtask number.

### JQPCTCPX05 \*\* CANCEL FUNCTION SUBTASK *number* NOT FOUND

Explanation: The subtask for the TCP call to terminate is not found. Re-enter the TCP command with a valid subtask number.

### JQPCTCPX06 \*\* CANCEL FUNCTION SUBTASK *number* ECB NOT AVAILABLE

Explanation: The subtask for the TCP call to terminate is currently not executing a TCP call. Re-enter the TCP command with a valid subtask number.

### JQPCTCPX07 \*\* CANCEL FUNCTION SUBTASK *number* STARTED

Explanation: The subtask for the TCP call to terminate has successfully started the TCP call termination.

### JQPCTCPX13 \*\* SUBTASK FUNCTION REQUIRES SUBTASK LIMIT

Explanation: The number of subtasks JQP is allowed to use is missing from the command.

### JQPCTCPX14 \*\* SUBTASK FUNCTION LIMIT NUMBER NOT NUMERIC

Explanation: The number of subtasks JQP is allowed to use is not numeric.

### JQPCTCPX15 \*\* SUBTASK FUNCTION LIMIT *number* INVALID

Explanation: The number of subtasks JQP is allowed to use is greater than the number of subtasks allocated.

### JQPCTCPX17 \*\* SUBTASK FUNCTION LIMIT SET TO *number*

Explanation: The number of subtasks JQP is allowed to use has been successfully changed to the number displayed in the message.

### JQPCTIME02 \*\* "ON" AND "OFF" ARE THE ONLY VALID TIME PARAMETERS

Explanation: The TIME command parameter must be "ON" to turn the TIME facility on, or "OFF" to turn the TIME facility off.

### JQPCTIME03 \*\* TIME FEATURE SUCCESSFULLY INITIATED AT *hh:mm*

Explanation: The TIME facility has successfully initiated at the time displayed in the message.

### JQPCTIME06 \*\* TIMER ERROR DURING SETTIME/STIMER PROCESSING AT *hh:mm*

Explanation: The TIME facility has failed during the process to re-invoke itself after one minute, at the time displayed in the message.

### JQPCTRCE01 \*\* *type* TRACE ACTIVATED FOR *device*

Explanation: TRACE has successfully been initiated for one of the following *types*:

- SHORT or FULL trace for the physical terminal or printer displayed in the message.
- SSI trace for the Sub System Interface (SSI) flow between JQP and z/OS.
- RACF trace for the RACF security calls.
- DCB trace for the DCB and record read from the JES spool.
- RPL trace for VTAM type devices.
- BASE64 for the Base 64 Encode/Decode routine.

All traces are written to the JQPLOG data set.

### JQPCTRCE02 \*\* *type* TRACE INACTIVATED FOR *device*

Explanation: TRACE has successfully been terminated for one of the *types* listed in message JQPCTRCE01.

### JQPCTRCE03 \*\* OPERAND REQUIRED

Explanation: For printer or terminal tracing, the TRACE command has two operands, TERMID and OPT. The TERMID operand is required.  
For Sub System Interface (SSI) tracing, the TRACE command has two operands, SSI and OPT. The OPT operand is required.

#### JQPCTRCE04 \*\* TERMINAL *terminal* NOT FOUND

Explanation: The TERMID specified with the TRACE command was not defined to JQP. The LIBRARYP command can be used to display the physical terminals or printers defined to JQP.

#### JQPCTRCE05 \*\* INVALID OPTION

Explanation: The OPT operand entered with the TRACE command is invalid.  
For printer or terminal tracing OPT, if specified, must be SHORT, FULL, or OFF.  
For RACF, DCB or RPL tracing, OPT, if specified, must be ON or OFF.

JQPGADM1A \*\* [DEST|VPRT|IPRT|TERM|USER|TRAN] "definition"  
[EXPORTED|IMPORTED]

Explanation: This message displays the JQP definition Export and Import processing information.

JQPGADM1B \*\* [IMPORT|EXPORT] DSN=data set name

Explanation: This message displays the JQP definition Export and Import data set information.

JQPGADM1C \*\* FILTER "*filter*" [EXPORTED|IMPORTED], MEMBER=*member* CNT=*count*

Explanation: This message displays the JQP definition Export and Import processing status information.

JQPGAQSTG1 \*\* *buffer* BUFFER EXPANSION SUCCESSFUL

Explanation: JQP has successfully expanded the buffer pool displayed in the message.

JQPGAQSTG2 \*\* *buffer* BUFFER EXPANSION FAILED

Explanation: JQP was unable to expand the buffer pool displayed in the message.

JQPGAQSTG3 \*\* *buffer* BUFFER NOT AVAILABLE, CONTACT ADMINISTRATOR

Explanation: A buffer displayed in the message was needed, but one was not available. The requested operation was rejected. Contact support for storage management assistance.

JQPGBFOVF TRANSMISSION BUFFER OVERFLOW-INCREASE TRBSIZE IN JQPFDFACT

Explanation: The default TRBSIZE in the control table (JQPFDFACT) is NOT large enough for the data stream. To resolve this problem increase TRBSIZE in the control table (JQPFDFACT) until this message no longer appears.

JQPGLOAD01 \*\* MODULE *module* LOAD FAILURE, RC=*rc*

Explanation: The module displayed in the message failed to load. Verify the module is in the STEPLIB.

- RC=1     Module not found, verify STEPLIB search chain.
- RC=3     Name in module is incorrect, module incorrectly built.
- RC=4     Release in module is incorrect, module incorrectly built.

### JQPGMENU01 \*\* LINE COMMAND "x" IS INVALID

Explanation: The line command displayed in the message is invalid for this screen.

### JQPGMENU02 \*\* PRESS ENTER TO CONFIRM DELETE, PF3 TO CANCEL

Explanation: Request has been made to delete a resource defined to JQP. Press the ENTER key to delete the resource, or press the PF3 key to cancel the delete request.

### JQPGMENU03 \*\* VALIDATION ERROR, FIELD=*field name*

Explanation: JQP has detected invalid information keyed in the field displayed in the message.

### JQPGMENU04 \*\* *resource type "resource" SUCCESSFULLY action*

Explanation: A destination, terminal, printer or user resource displayed in the message has been successfully deleted, added, or updated as displayed in the message.

### JQPGMENU05 \*\* resource type "resource" IS error condition

Explanation: An error condition, as displayed in the message, has been detected for the destination, terminal, printer or user resource displayed in the message.

### JQPGMENU06 \*\* ACCESS TO LINE COMMAND "x" NOT ALLOWED

Explanation: An attempt to add or delete a JQP definition is not allowed for this user. Reference the Control Table (JQPFDFACT) parameter [SECMENU](#).

### JQPGMENU07 \*\* VALIDATION ERROR, *error information*

Explanation: An attempt to assign a user an unknown printer group or attempting to use an unknown destination setup module with a prefix of HP, PS or XE was detected. Printer groups are defined in the Printer Group Table JQPFDFPX. Setup modules must be in a load library available to JQP.

### JQPGMENU08 \*\* RECORD *type:key field* USER=*userid*

Explanation: Auditing information, a JQP user has modified the record displayed in the message.

## JQPGMENU09 \*\* STORAGE CURRENTLY NOT AVAILABLE, TRY AGAIN LATER

Explanation: JQP is attempting to update a record on the VSAM file and storage is currently not available to contain the before and after record images. Storage may be available at later time after being release by other JQP users.

## JQPGMENU10 \*\* LAST UPDATED BY *user date time*

Explanation: This message displays the last date and time the JQP definition has been changed or added. In addition, the user who last changed the definition is displayed. For JQP definitions prior to JQP v2.4, N/A is displayed to indicate the information is not available.

## JQPGMENU11 \*\* PRINTER PARAMETER REQUIRED FOR *command* COMMAND

Explanation: The JQP command, displayed in the message, requires the printer name to process.

## JQPGMENU12 \*\* *command* FAILED, RC: *return-code* ERR: *error-number*

Explanation: A TCP/IP command used for the PJJ, PING or IPP command has failed. Return code and error number information is displayed in the message. The return code and error number can be found in the IBM manual IBM TCP/IP for MVS Application Programming Interface Reference.

## JQPGMENU13 \*\* ACCESS TO PRINTER *printer* NOT ALLOWED

Explanation: The JQP command detected a security violation for the printer displayed in the message. The user is not allowed to control the printer.

## JQPGMENU14 \*\* ACCESS TO DESTINATION *destination* NOT ALLOWED

Explanation: The JQP command detected a security violation for the destination displayed in the message. The user is not allowed to control the destination.

## JQPGMENU15 \*\* COMMAND *command number* PARAMETER IS MISSING OR INVALID

Explanation: The command syntax is incorrect for the JQP command displayed in the message. The parameter number listed in the message is an invalid command parameter or the command parameter is missing. Review the syntax for the JQP command and retry the command.

## JQPGMENU16 \*\* PRINTER *printer reason*

Explanation: The PJI or IPP command has detected an error. The reason for the error is displayed in the message.

### REASON

NOT ON FILE	The printer is not defined to JQP.
NOT A PRINTER	The printer is defined to JQP as a terminal.
NOT TCP/IP	The printer is not an TCP/IP printer.
NOT OPEN SOCKET	The printer is an LPD (port 515) type printer.
NOT IPP PRINTER	The printer is not an IPP (port 631) type printer.
NO PJI SUPPORT	The printer is defined to JQP without PJI support.
NOT AVAILABLE	The printer control block is not available.
HAS ACTIVE TASK	The printer has an active task.
SELECT TIMEOUT	The printer has not responded to the PJI command.
TEST MASK FAIL	Internal logic error.
HOST UNKNOWN	The TCP/IP host name is unknown. Unable to resolve the host name to TCP/IP address.
GET BUFFER FAILED	No storage currently available for buffers required for the IPP command.
JQPCIPPI FAIL-##	Internal logic error in program JQPCIPPI, contact technical support.
JQPRPP01 FAIL-##	Internal logic error in program JQPRPP10, contact technical support.

## JQPGMENU17 \*\* IPP JOB STATUS=*status* JOB STATE=*value, description* JOB REASON=*reason*

Explanation: The IPP job status, job-state and job-state-reasons.

Reference RFC8011, appendix B.1 Status-Code Values, sections 5.3.7 job-state and 5.3.7.2 Partitioning of Job States.

## JQPGNFUSR \*\* USER NOT FOUND

Explanation: A logon was attempted, but the user ID was defined to JQP and dynamic users are not allowed. Reference the Control Table (JQPFDFACT) parameter [DYNUSER](#) to allow dynamic users for external security installations only.

## JQPGRLSE01 \*\* *program* RELEASE x.x

Explanation: Informational message displaying the release level for the program executing.

## JQPGTSUSR \*\* ACTIVE TASK(S) FOR USER *userid*, RETRY

Explanation: An active JQP task exists for a user who is being acquired at logon time. The task must be allowed to complete before acquiring the user from another terminal at logon time.

**JQPGVSAM01 \*\* INCORRECT RECORD RELEASE, KEY=*record key***

Explanation: A record read from the JQP VSAM file has an incorrect release value. Verify the JQPMFILE program has executed successfully, migrating the JQP VSAM file to the new release.

**JQPGVSAM02 \*\* INCORRECT RECORD LIMIT REACHED, SHUTDOWN UNAVOIDABLE**

Explanation: The number of different records on the JQP VSAM file with an incorrect release level has exceeded the limit of ten. JQP is terminated. Verify the JQPMFILE program has executed successfully, migrating the JQP VSAM file to the new release.

**JQPGVSAM04 \*\* JQPFILE *action* ERROR, RC=*returncode* FB=*feedback***

Explanation: While processing the VSAM file request displayed in the message, an error condition was detected. The return and reason codes are displayed in hexadecimal and can be found in the IBM manual "DFSMS/MVS Macro Instructions for Data Sets".

**JQPMFILE02 \*\* JCL PARM IS MISSING OR INVALID**

Explanation: The JQPMFILE program requires the PARM parameter on the EXEC card.

**JQPMFILE03 \*\* CONVERTING KEY=*record-key* FROM *release* TO *release***

Explanation: The JQPMFILE program is converting the record from release to release, as displayed in the message.

### JQPMINIT01 \*\* JQP Vx.x.x INITIALIZATION COMPLETE, APPLID=*applid*

Explanation: JQP has successfully initialized its control blocks, internal buffers, and opened the VTAM ACB. JQP is ready to process logon requests.

### JQPMINIT03 \*\* INSUFFICIENT MEMORY

Explanation: There is not enough storage to initialize JQP. Raise the REGION parameter on the EXEC statement in the startup JCL.

### JQPMINIT04 \*\* UNABLE TO LOAD PHASE "*module*"

Explanation: JQP was unable to load the named phase. Ensure the named phase was linked into the JQP object library.

### JQPMINIT06 \* THIS PRODUCT WILL EXPIRE ON DAY *day* OF *year*

Explanation: Your JQP trial or lease expires on the date indicated. Contact MacKinney Systems or your authorized agent for further details.

### JQPMINIT09 A VALID PASSWORD WAS NOT SPECIFIED FOR THIS CPU *cpuid*

Explanation: The JQP password is invalid. Check the password displayed in the subsequent messages with the password given to you by MacKinney Systems or your authorized agent. If the characters are the same, report the problem to MacKinney Systems or your authorized agent.

### JQPMINIT11 [JQPFDCT|\$INIT] PASSWORD: *password information*

Explanation: This message displays the passwords from the Control Table JQPFDCT and the PDS member \$INIT. The information in the message displays EXPIRED or the return code and feedback information.

### JQPMLIST02 \*\* JCL PARM IS INVALID, COLUMN=#

Explanation: The PARM= parameter specified is invalid at the column displayed in the message. Supply the correct codes to list in the PARM= parameter. Reference section [2.16.1 JQPMLIST VSAM File List Utility](#).

## JQPPPRLH02 \*\* PASSWORD IS INCORRECT

Explanation: A logon was attempted, but the password entered is incorrect.

## JQPPPRLH03 \*\* USER *userid* ALREADY LOGGED ON

Explanation: A logon was attempted, but the user is already logged on from another physical terminal.

## JQPPPRLH05 USER ON TERM *termid*-TO ACQUIRE,ENTER PASSWORD AND PRESS PF1

Explanation: A valid user-id and password has been entered; however, the user is currently logged on to JQP at the terminal displayed in the message. To acquire the user's sessions, enter the correct password and press PF1.

## JQPPPRLH17 \*\* ALREADY AT MAX USER LIMIT

Explanation: A logon was attempted, but JQP is already at its maximum user limit. The maximum user limit is specified in the Control Table (JQPFDFACT) MAXUSER parameter. (see Section [3.3 JQPFDFACT Control Table](#)).

## JQPPPRLH18 \*\* REENTER NEW PASSWORD FOR VERIFICATION

Explanation: User has keyed into the new password field on the JQP sign-on screen and JQP is asking the user to re-key the new password for verification before calling the external security manager.

## JQPPPRLH19 VERIFICATION DOESNT MATCH NEW PASSWORD. ENTER NEW PASSWORD

Explanation: User has incorrectly keyed the new password for new password verification.  
User must re-key the new password.

## JQPPRPQ02 \*\* PRINTING ON PRINTER *printer* TERMINATED, DISP=*disposition*

Explanation: The report in FAIL-xx or HALTED status has been purged from the JES output queue or placed on hold.

## JQPPRCLX01 \*\* ACCESS NOT ALLOWED FROM TERMINAL "*termid*"

Explanation: A logon was attempted, but the terminal is not defined JQP. Dynamic physical terminals are not allowed as set by the Control Table (JQPFDFACT) parameter DYPHY.

## JQPPRCLX02 \*\* TERMINAL "*netname*" IS A PRINTER

Explanation: Logon requests for a device defined as a printer to JQP are not allowed.

## JQPPRCLY01 \*\* ALREADY AT MAX USER LIMIT

Explanation: A logon was attempted, but JQP is already at its maximum-user limit. The maximum-user limit is specified in the JQPFDFCT control table (see Section [3.3 JQPFDFCT Control Table](#)).

## JQPPRCLY02 \*\* TERMINAL "*netname*" REJECTED SESSION

Explanation: A logon was attempted from a physical terminal, but the physical terminal had an invalid LOGMODE. (Example - an SNA terminal with a non-SNA LOGMODE) Use LOGON APPLID (JQP) LOGMODE (xxxxxxxx) command on the physical terminal to verify the LOGMODE.

## JQPPRCRS01 \*\* INTERVENTION REQUIRED ON PRINTER *printer*

Explanation: JQP has received an intervention required exception response from a SCS type printer. JQP waits for the printer to send a LUSTAT before sending any more data to the printer. For all other exception responses, JQP fails the report with FAIL-04 status. In the event the printer does not send an LUSTAT, the print task can be terminated by first HALTING the report, followed by STOPPING the printer.

## JQPPRCRS02 \*\* EXCEPTION RESPONSE ON PRT=*printer* RCFB=*return code* SNS=*sense code*

Explanation: JQP has received exception response to an exception send for a SCS type printer. JQP fails the report with FAIL-04 status.

## JQPPRCSM02 \*\* PRINTER "*netname*" REJECTED SESSION

Explanation: The named printer has been rejected due to an improperly defined VTAM LOGMODE for this printer.

Sample IBM LOGMODEs are:

NON-SNA PRINTER	→ D4B32782
SNA PRINTER	→ DSC2K
SCS PRINTER	→ SCS

## JQPPRCSP01 \*\* PLU BIND FROM "*netname*" REJECTED

Explanation: JQP rejected a session with the netname displayed in the message. Session was rejected because the netname requested to be the primary logical unit. JQP requires the netname always be the secondary logical unit.

## JQPPRCTP01 \*\* SYSTEM ACB *applid* CLOSED

Explanation: JQP has successfully closed its VTAM ACB as a result of the VTAM TPEND request. No users are allowed to access JQP until VTAM is restarted and the CONNECT command is issued to reopen the VTAM ACB.

## JQPPSDDI01 \*\* OUT OF DISPLAY BUFFERS (BUFDSL), DISPLAY TERMINATED

Explanation: Display buffer shortage resulting from a SHOW or LIBRARY command. Increase the number of BUFDSL buffers in the Control Table (JQPFDICT) or reduce the number of concurrent SHOW or LIBRARY displays.

## JQPPSDDT01 \*\* INTERVENTION REQUIRED ON PRINTER *printer*

Explanation: JQP has received an intervention required exception response from a SCS type printer. JQP waits for the printer to send a LUSTAT before sending any more data to the printer.  
For all other exception responses, JQP fails the report with FAIL-04 status.  
In the event the printer does not send an LUSTAT, the print task can be terminated by first HALTING the report, followed by STOPPING the printer.

## JQPPSDHP01 \*\* JQP HELP SYSTEM LOGIC ERROR

Explanation: Logic error has occurred while processing the JQP help system. Contact technical support.

## JQPRAQIP01 \*\* WAITING FOR TCP SUBTASK

Explanation: The JQP main task is waiting for a TCP subtask to become available to process the TCP calls.

## JQPRBS6401 \*\* BASE64 ERROR, *reason*

Explanation: The Base 64 Encode/Decode routine has failed for the reason listed in the message. Contact technical support for assistance.

## JQPRCMDR01 \*\* INVALID COMMAND

Explanation: The command entered was not recognized. Commands and their variations are controlled via the command table (see Section [3.2 JQPFDICT Command Table](#)).

## JQPRCMDR02 \*\* ACCESS TO COMMAND *command* DENIED

Explanation: Access to the command entered was denied. Access to JQP commands are controlled by the “Class” field for the user and the command table SEC parameter (see Section [3.2 JQPFDICT Command Table](#)).

## JQPRCMDR04 \*\* COMMAND *command* NOT ALLOWED FROM CONSOLE

Explanation: A command valid only from a physical terminal has been entered from the system console.

## JQPRCPU01 \*\* CPU INFORMATION, CPUID=xxxxx MODEL=xxxx

Explanation: The CPUID and model number for the current z/OS operating system.

**JQPRDBCS01 \*\* PURE ODD LINE LENGTH LENGTH=*length* LINE=*number***

Explanation: The pure Double-Byte Character Set (DBCS) print data line has an odd length. Pure DBCS print lines must be even. The length of the print line and line number in error are displayed in the message.

**JQPRDBCS02 \*\* SHIFT-IN OUT OF ORDER OFFSET=*length* LINE=*number***

Explanation: A Shift-In (SI) character was located before the Shift-Out (SO) character. Offset within the print line and the line number in error are displayed in the message.

**JQPRDBCS03 \*\* SHIFT-OUT MISSING OFFSET=*length* LINE=*number***

Explanation: The Shift-Out (SO) character is missing from a print line containing a Shift-In (SI) character. Offset within the print line and the line number are displayed in the message.

**JQPRDBCS04 \*\* SOSI LENGTH INVALID OFFSET=*length* LINE=*number***

Explanation: The length of the print data between the Shift-Out (SO) and Shift-In (SI) characters is not even. Offset within the print line and the line number are displayed in the message.

**JQPRDBCS05 \*\* SHIFT-OUT OUT OF ORDER OFFSET=*length* LINE=*number***

Explanation: A second Shift-Out (SO) character was found before a Shift-In (SI) character. Offset within the print line and the line number are displayed in the message.

**JQPRDCBC01 \*\* DD=*name* CLOSE FAILED, R15=*returncode*  
PRINTER=*printer* DEST=*destination***

Explanation: The close DCB failed with the return code displayed in the message. The return codes can be found in the IBM manual DFSMS/MVS Macro Instructions for Data Sets.

**JQPRDCBC02 \*\* DD=*ddname* PRINTER=*printer* DEST=*destination***

Explanation: Identifies the DDNAME, printer and destination the close DCB failed for.

**JQPRDCBO01 \*\* DD=*name* OPEN FAILED, R15=*returncode*  
PRINTER=*printer* DEST=*destination***

Explanation: The open DCB failed with the return code displayed in the message. The return codes can be found in the IBM manual DFSMS/MVS Macro Instructions for Data Sets.

**JQPRDCBR02 \*\* DD=*ddname* READ FAILED  
PRINTER=*printer* DEST=*destination***

Explanation: Identifies the DDNAME, printer and destination the read DCB failed for.

**JQPRDCBW02 \*\* DD=*ddname* WRITE FAILED  
PRINTER=*printer* DEST=*destination***

Explanation: Identifies the DDNAME, printer and destination the write DCB failed for.

**JQPRDCBW03 \*\* B37 ABEND DD=*ddname* PRINTER=*printer* DEST=*destination***

Explanation: Identify the DDNAME, printer and destination producing the B37 ABEND. Turn on the SSI trace for the destination, restart the destination to reproduce the problem and send the trace output to MacKinney Systems technical support.

## JQPRDISP01 \*\* SMF RECORD *type* FAILED, RC=*returncode*

Explanation: The SMFEWMTM macro used to write the SMF record type displayed in the message has failed. Return codes can be found in the IBM manual z/OS MVS System Management Facilities (SMF).

<u>RC</u>	<u>Description</u>
08	Length specified in the RDW was less than 18 bytes.
10	SMF is not active or has ended abnormally.
14	Installation-written IEFU83, IEFU84, or IEFU85 exit suppressed the record.
18	Data was lost.
24	Record type specified is not currently being recorded.
28	Buffer shortage caused lost of data.
2C	SMF could not establish recovery.
30	The caller was not in primary ASC mode or an incorrect ASID was encountered.

## JQPRDYNA01 \*\* DYNALLOC ERROR, R15=*rc*, S99I=*rc*, S99E=*rc*, SMS=*rc*

Explanation: The dynamic allocation for a data set has failed with the return codes displayed in the message. The return codes can be found in the IBM manual z/OS MVS Auth Assembler Service Guide.

JQPRDYNA02 \*\* DD=*ddname data-set-name*  
SPACE=(*[CYL|TRK]*,(*primary,secondary*)) UNIT=*unit* VOLUME=*volser*  
STORCLAS=*class* MGMTCLAS=*class* DATACLAS=*class*

Explanation: Identify the DDNAME, data set name and file allocation information for the dynamically allocated file.

## JQPRDYNA03 \*\* [*DYNALLOC|UNALLOC*] TEXT UNITS FOR *parameter*

Explanation: Identifies the dynamic allocation text units used for either allocation or un-allocation requests.

## JQPRDYNG01 \*\* GDG ALLOCATION FAILED, RC=*rc* R15=*reg15* R0=*reg0* DSN=*data set*

Explanation: The dynamic allocation for a generation data set (GDG) has failed with the return codes displayed in the message.

RC=01	Indicates the data set name is too long to add the GDG prefix G#####V00 to it.
RC=02	Indicates the LOCATE macro command has failed. R15=register 15 R0=register 0
RC=03	Current GDG data set name is invalid.

## JQPRDYNG02 \*\* GDG ALLOCATION FAILED, TEXT UNIT=*value*

Explanation: The dynamic allocation for a generation data set (GDG) has failed. Unable to locate the text unit displayed in the message.

**JQPRDYNU01 \*\* UNALLOC ERROR, R15=*rc*, S99I=*rc*, S99E=*rc ddname***

Explanation: The dynamic un-allocation for a data set failed with the return codes displayed in the message. The return codes can be found in the IBM manual z/OS MVS Auth Assembler Service Guide.

**JQPRDYNU02 \*\* DD=*JQP#####* PRINTER=*printer* DEST=*destination***

Explanation: Identifies the DDNAME, printer and destination the dynamic un-allocation failed for.

**JQPRDYNG01 \*\* GDG ALLOCATION FAILED, RC=*returncode* R15=*xx* R0=*xx* DSN=*data set***

Explanation: The dynamic allocation for a GDG data set has failed with the return codes displayed in the message.  
RC = 01, Indicates the data set name is too long to add the GDG prefix G#####V00 to it.  
RC = 02, Indicates the LOCATE macro command has failed.  
RC = 03, Current GDG data set name is invalid.

**JQPRIMFK01 \*\* FIELD *field* IS MISSING IN *screen***

Explanation: JQP is attempting to place information on the screen and the field in the screen displayed in the message is missing. This normally occurs when migrating a previous JQP release screen to the current release. Review the current release screen source and add any missing fields into your modified screen source.

**JQPRINIT02 \*\* *ddname* function FAILED, MEMBER=\$INIT RC =*rc***

Explanation: The PDS source member \$INIT processing has failed.

**JQPRINNW01 \*\* WARNING, CLOSE TO REGION LIMIT, NEWCOPY MAY ABEND**

Explanation: JQP has detected the current storage requirements are within 65K of the region size of this address space. Generally this is a safe margin, but numerous NEWCOPY commands may cause JQP to run out of space and ABEND. Use the SHOW command to determine current storage requirements. (JQP table combined are approximately 32K) Increase region size to alleviate this problem.

**JQPRINPI01 \*\* TCPHOST FORMAT IS INVALID**

Explanation: The format for the TCPHOST parameter is incorrect. The proper syntax is xxx.xxx.xxx.xxx, where xxx is a number between 0 and 255.

**JQPRINPI02 \*\* SYSTEM SYMBOL FAILURE, RC=*rc***

Explanation: Using the ASASYMBM system service to substitute text for a system symbol failed with the return code displayed in the message. Reference the ASASYMBM Return and reason codes for more information on the cause of the failure.

## JQPRINVT01 \*\* UNABLE TO OPEN SYSTEM ACB *applid*

Explanation: During startup, JQP was unable to open the system ACB. Possibly the system application was not defined to VTAM through the APPL statement (see section [1.1.5 VTAM Definitions](#) of this manual) or if it was defined, it is in an inactive state. The system application name is defined in the JQPFDFACT control table (see Section [3.3 JQPFDFACT - Control Table](#)).

## JQPRIPBS01 \*\* BIND SOCKET (ADDRESS IN USE), PRT:*printer* PORT:*port*

Explanation: The TCP/IP port number used for the LPD printer is in use. JQP waits and retries the TCP/IP BIND command as defined by the CONNECT parameter in the Control Table (JQPFDFACT).

## JQPRIPGH01 \*\* TCP/IP HOSTNAME: *TCP/IP hostname*

Explanation: During startup, JQP displays the TCP/IP host name of the local host.

## JQPRIPGI01 \*\* TCP/IP IPV4 ADDRESS: *xxx.xxx.xxx.xxx*

Explanation: During startup, JQP displays the TCP/IP address of the local host.

## JQPRIPRC01 \*\* *command status* PRINTER:*printer*

Explanation: The command displayed in the message, executing in a subtask, has failed or completed successfully.

## JQPRIPRC02 \*\* TCP/IP RC: *return-code* ERRNO: *error-number* PRINTER:*printer*

Explanation: This message follows message JQPRIPRC01 and displays the TCP/IP return code and error number for the TCP/IP command executed. The return code and error number can be found in the IBM manual IBM TCP/IP for MVS Application Programming Interface Reference.

## JQPRIPRC03 \*\* API MODULE NOT LOADED

Explanation: A TCP/IP call has failed with the return code indicating the TCP/IP API interface is not available. Verify TCP/IP is active.

## JQPRIPRC04 \*\* [TCP/IP | PIPI] R15:*register*

Explanation: A TCP/IP or CEEPIPI call was not accepted for processing.

## JQPRIPRC05 \*\* PIPI RC: *return-code* RSN: *reason* FDBK: *feedback*

Explanation: A CEEPIPI call has failed. Reference the z/OS Language Environment Programming Guide.

## JQPRIPWX01 \*\* TCP/IP *command* TIMEOUT FOR PRINTER:*printer* SECONDS:*seconds*

Explanation: A TCP/IP command has not completed in the amount of time specified for the printer. The TCP/IP command is cancelled.

**JQPRIPZA01 \*\* DYNALLOC ERROR, R15=*rc*, S99I=*rc*, S99E=*rc*, SMS=*rc***

Explanation: The dynamic allocation for a data set has failed with the return codes displayed in the message. The return codes can be found in the IBM manual z/OS MVS Auth Assembler Service Guide.

**JQPRIPZA02 \*\* DD=*destination* PRINTER=*printer***

Explanation: Identifies the destination and printer the dynamic allocation failed for.

**JQPRIPZC01 \*\* CLOSE ERROR, R15=*returncode***

Explanation: The close DCB failed with the return code displayed in the message. The return codes can be found in the IBM manual DFSMS/MVS Macro Instructions for Data Sets.

**JQPRIPZC02 \*\* DD=*destination* PRINTER=*printer***

Explanation: Identifies the destination and printer the close DCB failed for.

**JQPRIPZO01 \*\* OPEN ERROR, R15=*returncode***

Explanation: The open DCB failed with the return code displayed in the message. The return codes can be found in the IBM manual DFSMS/MVS Macro Instructions for Data Sets.

**JQPRIPZO02 \*\* DD=*destination* PRINTER=*printer***

Explanation: Identifies the destination and printer the open DCB failed for.

**JQPRIPZR02 \*\* DD=*destination* PRINTER=*printer***

Explanation: Identifies the destination and printer the read DCB failed for.

**JQPRIPZU01 \*\* UNALLOC ERROR, R15=*rc*, S99I=*rc*, S99E=*rc*, SMS=*rc***

Explanation: The dynamic un-allocation for a data set has failed with the return codes displayed in the message. The return codes can be found in the IBM manual z/OS MVS Auth Assembler Service Guide.

**JQPRIPZU02 \*\* DD=*destination* PRINTER=*printer***

Explanation: Identifies the destination and printer the dynamic un-allocation failed for.

## JQPRISCD01 \*\* VTAM TEMPORARILY SHORT ON STORAGE

Explanation: JQP has received a SHORT ON STORAGE return code from VTAM from a send or receive request. Reference any additional VTAM messages on the system console, review VTAM's storage requirements and increase VTAM's region.

## JQPRISCD02 \*\* *netname* VTAM RPL FAILED

Explanation: A VTAM RPL request has failed for the printer displayed in the message. This message is part of a three message set (JQPRISCD02, JQPRISCD03 and JQPRISCD04). These messages may occur when the trace is active for the printer and are intended for debugging purposes by MacKinney Systems.

## JQPRISCD03 \*\* REQ=*request* RTNCD=*returncode* FDBK2=*feedback2* FDBK3=*feedback3* SENSE=*sense code*

Explanation: This message is part of a three message set (JQPRISCD02, JQPRISCD03 and JQPRISCD04). These messages may occur when the trace is active for the printer and are intended for debugging purposes by MacKinney Systems.

## JQPRISCD04 \*\* RH=*request header* CNTRL=*control* OPT=opt01 opt05 opt06 opt07 opt08 opt09 opt10 opt11 opt12

Explanation: This message is part of a three message set (JQPRISCD02, JQPRISCD03 and JQPRISCD04). These messages may occur when the trace is active for the printer and are intended for debugging purposes by MacKinney Systems.

## JQPRIXDB01 \*\* UNIX SET DUB DEFAULT=PROCESS, [SUCCESSFUL|FAILED] RC=*value*, *code*, *reason*

Explanation: Setting the UNIX DUB default is successful or failed. For a failed request, the return value, return code and reason codes are displayed.

## JQPRLDDB01 \*\* DBCS MODULE "*module*" NOT FOUND

Explanation: The Double-Byte Character Set (DBCS) module name used for print data translation is not available.

### JQPRLDPH01 \*\* TABLE "*module*" INCORRECT RELEASE LEVEL

Explanation: The named table was assembled with JQP macros from a different release of JQP. Reassemble the named table with the JQP macros from the proper release of JQP.

### JQPRLDPH02 \*\* TABLE "*module*" INCORRECTLY BUILT

Explanation: Table displayed in the message was not assembled properly. Check for missing TYPE=INITIAL, TYPE=FINAL, or linking with one of the other table names.

### JQPRLDPH03 \*\* TABLE "*module*" LOAD ABEND=*code* R15=*reason*

Explanation: The JQP module displayed in the message was not loaded. Normally this message is displayed with an ABEND and reason code 806-4 indicating the module was not located. During JQP startup, this message is displayed on the system console and after startup display in the JQPLOG. The ABEND codes are documented in the IBM MVS System Codes manual.

### JQPRLDPH04 \*\* STEPLIB [*CLOSE|OPEN*] ERROR, RC=*code*

Explanation: The close or open STEPLIB DCB failed with the return code displayed in the message. The return codes can be found in the IBM manual DFSMS/MVS Macro Instructions for Data Sets.

### JQPRLDPH05 \*\* STEPLIB BLDL FOR *module* FAILED, RC=*code* RS=*reason*

Explanation: An error occurred when JQP tried to build a directory entry list for the STEPLIB data set to load the JQP module. The return and reason codes are documented in the IBM MVS/DFP Macro Instructions for Data Sets manual.

### JQPRLDPH06 \*\* STEPLIB LOAD FOR *module* ABEND=*code-reason*

Explanation: The JQP module displayed in the message was not loaded. Normally this message is displayed with an ABEND and reason code 806-4 indicating the module was not located. During JQP startup, this message is displayed on the system console and after startup display in the JQPLOG. The ABEND codes are documented in the IBM MVS System Codes manual.

### JQPRLDPH07 \*\* DELETE FOR *module* FAILED, RC=*code*

Explanation: The JQP module displayed in the message was not deleted from storage. The return codes can be found in the IBM manual MVS Assembler Services Reference.

### JQPRLDPH08 \*\* TABLE "*module*" WARNING, NOT RENT/REUS

Explanation: The JQP module displayed in the message does not have the RENT/REUS attribute, processing continues. Assemble and link the module with the RENT/REUS attribute to prevent a possible JQP ABEND.

## JQPRLFCB01 \*\* SYS1.IMAGELIB OPEN ERROR, RC=*returncode*

Explanation: An error occurred when JQP tried to open the SYS1.IMAGELIB data set to process an FCB image. Following are the possible return codes as documented in the IBM MVS/DFP SYSTEM PROGRAMMERS REFERENCE manual:

- 04 Either the volume containing SYS1.IMAGELIB is not mounted or acquired catalog volume is not mounted.
- 08 Either SYS1.IMAGELIB does not exist on the volume the catalog points, or SYS1.IMAGELIB is not cataloged.
- 0C An error occurred in reading the catalog or VTOC.

## JQPRLFCB02 \*\* BLDL FOR FCB *fc* FAILED, RC=*returncode* RS=*reason*

Explanation: An error occurred when JQP tried to build a directory entry list for the SYS1.IMAGELIB data set to process an FCB image. Following are the possible return and reason codes as documented in the IBM MVS/DFP MACRO INSTRUCTIONS FOR DATA SETS manual:

<u>Return</u>	<u>Reason</u>	
04	00	One or more entries in the list could not be filled; the list supplied can be invalid. When a search is attempted but entry is not found, the R field (byte 11) for the entry is set to zero.
08	00	A permanent I/O error was detected when the system attempted to search the directory.
08	04	Insufficient virtual storage was available.
08	08	Invalid data extent block (DEB). (Not in key 0 through 7.)

## JQPRLFCB03 \*\* LOAD FOR FCB *fc* FAILED, RC=*returncode* RS=*reason*

Explanation: An error occurred when JQP tried to load the FCB image from the SYS1.IMAGELIB. The return code is the system ABEND code and reason code is the reason code for the system ABEND. Reference the MVS/ESA SYSTEM CODES manual.

## JQPRLFCB04 \*\* DELETE FOR FCB *fc* FAILED, RC=*returncode*

Explanation: An error occurred when JQP tried to delete the FCB image from storage. Following are the possible return codes as documented in the IBM MVS/ESA ASSEMBLER SERVICES REFERENCE manual:

- 04 Requested module was not in storage, or an attempt was made to delete a system module by a caller not authorized to do so.

## JQPRLFCB05 \*\* FCB *fc* PROCESSING ERROR, RC=*returncode*

Explanation: FCB processing event failure logged to the JQPLOG data set for the FCB displayed in the message. Following are the possible return codes:

- 01 JQP detected an unknown channel code the FCB image retrieved from the SYS1.IMAGELIB data set or JQP detected an FCB with more than 12 channel codes.

**JQPRLOGA01 \*\* DYNALLOC ERROR,R15=*rc*,S99I=*rc*,S99E=*rc*,DD=*sysout***

Explanation: The dynamic allocation for a SYSOUT data set has failed with the return codes displayed in the message. The return codes can be found in the IBM manual z/OS MVS Auth Assembler Service Guide.

**JQPRLOGU01 \*\* UNALLOC ERROR,R15=*rc*,S99I=*rc*,S99E=*rc*,DD=*sysout***

Explanation: The dynamic un-allocation for a SYSOUT data set failed with the return codes displayed in the message. The return codes can be found in the IBM manual z/OS MVS Auth Assembler Service Guide.

**JQPRMAIA01 \*\* DYNALLOC ERROR, R15=*rc*, S99I=*rc*, S99E=*rc*, SMS=*rc***

Explanation: The dynamic allocation for the email JQPLOG data set has failed with the return codes displayed in the message. The return codes can be found in the IBM manual z/OS MVS Auth Assembler Service Guide.

**JQPRMAIA02 \*\* DUPLICATE DSN=*data set name***

Explanation: The dynamic allocation for the email JQPLOG temporary data set has failed due to duplicate data set name. Determine the status of the data set displayed in the message and delete the data set to continue with the email JQPLOG feature.

**JQPRMAIL01 \*\* [HOST=*hostname* | ADDRESS= *xxx.xxx.xxx.xxx*]**

Explanation: Informational only; displays the TCP/IP SMTP host address or host name.

**JQPRMAIL02 \*\* EMAIL TCP/IP CALL HAS FAILED, CHECK JQPLOG**

Explanation: Informational only; an email notification TCP/IP request has failed. Check the JQPLOG for more details.

**JQPRMAIL03 \*\* EMAIL STATUS IS *status***

Explanation: Informational only; status of the email notification feature.

**JQPRMAIL04 \*\* EMAIL SERVER INVALID RESPONSE FROM "*request*"  
P=*printer* J=*jobname jobid group***

Explanation: Informational only; the SMTP server has sent unexpected or invalid response to the command displayed in the message. Turn on the email trace facility to capture the complete SMTP protocol data stream for diagnosis.

**JQPRMAIL05 \*\* EMAIL SERVER RETRY LIMIT EXCEEDED, EMAIL REQUEST PURGED**  
*P=printer J=jobname jobid group*

Explanation: Informational only; the maximum number of retries for the email notification request has been exceeded. The email notification request is purged.

**JQPRMAIP01 \*\* JQPLOG EMAIL REQUEST SUCCESSFUL**

Explanation: Informational only; the email JQPLOG request was successfully sent to MacKinney Systems technical support.

**JQPRMAIP02 \*\* JQPLOG NOT AVAILABLE**

Explanation: Informational only; the email JQPLOG is not available for sending to MacKinney Systems technical support.

**JQPRMAIQ01 \*\* STORAGE CURRENTLY NOT AVAILABLE, NOTIFY CANCELLED**

Explanation: Informational only; storage is not currently available to email the JQPLOG to MacKinney Systems technical support. Please try again later after storage has been released.

**JQPRMAIU01 \*\* UNALLOC ERROR, R15=rc, S99I=rc, S99E=rc**

Explanation: The dynamic un-allocation for the email JQPLOG data set has failed with the return codes displayed in the message. The return codes can be found in the IBM manual z/OS MVS Auth Assembler Service Guide.

**JQPRMPTA01 \*\* TRANSFORMED JES DATASET, *event***  
*JOB=jobname ID=jobid GRP=groupname*

Explanation: Print transform dynamic allocation event, as displayed in the message, logged to the JQPLOG data set for the report displayed in the message.

**JQPRMPTB01 \*\* PDS MEMBER \$MPT LOADED [WITH ERRORS]**

Explanation: The process to build the internal table from the PDS member \$MPT is complete. In the event the \$MPT member contained errors, the literal "WITH ERRORS" is appended to the message. Review the JQPLOG for the line numbers in error, edit PDS member \$MPT and correct the lines in error.

**JQPRMPTB02 \*\* *ddname function* FAILED, MEMBER=\$MPT RC =rc**

Explanation: The PDS source member \$MPT processing has failed.

### JQPRMPTB03 \*\* MEMBER \$MPT, ERROR ON LINE: *number*

Explanation: The process to build the internal table from the PDS member \$MPT is reporting an error for the line displayed in the message.

### JQPRMPTB04 \*\* SECONDARY MPT PORT IS ZERO

Explanation: The secondary MPT port specified in the Control Table (JQPFDCT) [MPTPORT](#) parameter is omitted or zero and the command “NEWCOPY \$MPT” is not allowed.

### JQPRMPTD01 \*\* TRANSFORMED JES DATASET, *event* JOB=*jobname* ID=*jobid* GRP=*groupname*

Explanation: Print transform purge MPT data set event, as displayed in the message, logged to the JQPLOG data set for the report displayed in the message.

### JQPRMPTR01 \*\* MPT PRINT TRANSFORM *event* DD=*ddname* [PORT=*number*] JCL PAGEDEF=*name* FORMDEF=*name* OVERLAYF=*name*

Explanation: Print transform event, as displayed in the message, logged to the JQPLOG data set. For the CONNECT event, the primary or secondary port number is displayed. For the STARTING event, the JCL parameters PAGEDEF, FORMDEF and OVERLAYF are displayed on a second line.

### JQPRMPTR02 \*\* UNABLE TO RE-ACQUIRE THE JES DATASET

Explanation: Print transform event logged to the JQPLOG data set. JQP must release the JES data set to allow the MPT server to perform the print transform. After MPT has completed the print transform, the JES data set is released by MPT. JQP was unable to re-acquire the JES data set.

### JQPRMPTR03 \*\* *statistic*

Explanation: Print transform statistic information, as displayed in the message, logged to the JQPLOG data set.

### JQPRMPTR04 \*\* RESPONSE FROM THE MPT SERVER HAS FAILED

Explanation: The response JQP is expecting from the MPT server was not received or incomplete. Following this message is the current MPT function JQP is performing and the I/O buffer dump. The I/O buffer may contain the last function sent to MPT or the partial response from the MPT server.

### JQPRMPTR05 \*\* MPT SERVER CONNECTION REQUEST HAS FAILED, PORT=*number*

Explanation: Print transform event logged to the JQPLOG data set. JQP was unable to connect to the MPT server. Verify the MPT primary or secondary server is active.

### JQPRMPTR08 \*\* [HOST=*hostname* | ADDRESS=*xxx.xxx.xxx.xxx*]

Explanation: Informational only, displays the MPT server TCP/IP host name or TCP/IP address.

**JQPRMPTR09 \*\* FUNCTION:*function*  
RC:*code, description***

Explanation: Print transform failure event, as displayed in the message, logged to the JQPLOG data set. Reference the MPT documentation for return code information.

**JQPRMPTS01 \*\* TRANSFORMED JES DATASET, *event***

Explanation: Print transform failure event, as displayed in the message, logged to the JQPLOG data set. This message occurs when JQP attempts to send the print transformed JES data set to the printer.

**JQPRMPTU01 \*\* TRANSFORMED JES DATASET, [KEPT|PURGED]**

Explanation: Print transform un-allocation event, as displayed in the message, logged to the JQPLOG data set. This message displays the disposition of the JES data set.

**JQPRMPTX01 \*\* MPT MEMBER "*member*" NOT FOUND**

Explanation: Print transform failure event logged to the JQPLOG data set. The print transform member defined for the print transform is not on file.

**JQPRMPTX02 \*\* MPT MEMBER "*member*" ASSIGNED TO REPORT**

Explanation: Print transform event logged to the JQPLOG data set. The message displays the print transform member used for the print transform.

**JQPRMPT201 \*\* FORMDEF MUST BE SPECIFIED WITH AFP LINEDATA INPUT**

Explanation: Print transform failure event logged to the JQPLOG data set. For AFP line data reports, a form definition is required. The form definition can be supplied via JCL or in the print transform member definition.

**JQPRMPT501 \*\* PAGEDEF MUST BE SPECIFIED WITH AFP LINEDATA INPUT**

Explanation: Print transform failure event logged to the JQPLOG data set. For AFP line data reports, a page definition is required. The page definition can be supplied via JCL or in the print transform member definition.

**JQPRMPT601 \*\* FONT #*num* NOT ON FILE**

Explanation: Print transform failure event logged to the JQPLOG data set. For line data reports, the font number displayed in the message is not in the font name table JQPFDFNT.

JQPRMSRD01 \*\* MESSAGE "*messageid*" NOT FOUND IN MESSAGE TABLE

Explanation: Internal message displayed in the message is missing from the Message Table (JQPFDMS). Verify the message table supplied on the installation tape is being used.

JQPRNWHP01 \*\* *ddname function* FAILED, MEMBER=*member* RC=*rc*

Explanation: The JQP NEWCOPY command for a help screen has failed.

JQPRNSWP01 \*\* SYSEVENT TRANSWAP COMPLETE

Explanation: The JQP address space has successfully been made non-swappable.

JQPRNSWP02 \*\* SYSEVENT TRANSWAP FAILED WITH RC:*returncode*

Explanation: The request to make the JQP address space non-swappable has failed with the return code displayed in the message. Following are the possible return codes as documented in the IBM MVS/ESA Authorized Assembler Services Reference manual:

Return Code: 04	The transition was previously done or the address space is permanently non-swappable.
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JQPROCDR01 \*\* *applid* CONSOLE COMMAND INTERFACE

Explanation: JQP console interface is now active and ready for commands.

JQPROCDR02 \*\* OPER COMM ROUTINE ALREADY ACTIVE

Explanation: Operator communication routine is already active.

JQPROCWR01 \*\* COMMAND OUTPUT

Explanation: Operator communication message displayed when the 1<sup>st</sup> message in a multiple line message does not contain the message ID JQP.

**JQPRPDSA01 \*\* DYNALLOC ERROR, R15=*rc*, S99I=*rc*, S99E=*rc*, SMS=*rc***

Explanation: The dynamic allocation for the JQP export/import data set has failed with the return codes displayed in the message. The return codes can be found in the IBM manual z/OS MVS Auth Assembler Service Guide.

**JQPRPDSA02 \*\* *message***

Explanation: Attempt to dynamic allocation a data set has failed. This message displays a more user friendly error message.

**JQPRPDSU01 \*\* UNALLOC ERROR, R15=*rc*, S99I=*rc*, S99E=*rc***

Explanation: The dynamic un-allocation for the JQP export/import data set has failed with the return codes displayed in the message. The return codes can be found in the IBM manual z/OS MVS Auth Assembler Service Guide.

**JQPRPDSU02 \*\* DD=*ddname***

Explanation: Identifies the DDNAME the un-allocation failed for.

**JQPRPDS101 \*\* [OPEN|CLOSE|READ|WRITE] ERROR, RC, *message***

Explanation: A READ, WRITE, OPEN, or CLOSE macro has caused an ABEND as displayed in the message.

## JQPRPFCB01 \*\* SYS1.IMAGELIB OPEN ERROR, RC=*returncode*

Explanation: An error occurred when JQP tried to open the SYS1.IMAGELIB data set to process an FCB image. Following are the possible return codes as documented in the IBM MVS/DFP SYSTEM PROGRAMMERS REFERENCE manual:

- 04 Either the volume containing SYS1.IMAGELIB is not mounted or acquired catalog volume is not mounted.
- 08 Either SYS1.IMAGELIB does not exist on the volume the catalog points, or SYS1.IMAGELIB is not cataloged.
- 0C An error occurred in reading the catalog or VTOC.

## JQPRPFCB02 \*\* BLDL FOR FCB *fc* FAILED, RC=*returncode* RS=*reason*

Explanation: An error occurred when JQP tried to build a directory entry list for the SYS1.IMAGELIB data set to process an FCB image. Following are the possible return and reason codes as documented in the IBM MVS/DFP MACRO INSTRUCTIONS FOR DATA SETS manual:

<u>Return</u>	<u>Reason</u>	
04	00	One or more entries in the list could not be filled; the list supplied can be invalid. When a search is attempted but entry is not found, the R field (byte 11) for the entry is set to zero.
08	00	A permanent I/O error was detected when the system attempted to search the directory.
08	04	Insufficient virtual storage was available.
08	08	Invalid data extent block (DEB). (Not in key 0 through 7.)

## JQPRPFCB03 \*\* LOAD FOR FCB *fc* FAILED, RC=*returncode* RS=*reason*

Explanation: An error occurred when JQP tried to load the FCB image from the SYS1.IMAGELIB. The return code is the system ABEND code and reason code is the reason code for the system ABEND. Reference the MVS/ESA SYSTEM CODES manual.

## JQPRPFCB04 \*\* DELETE FOR FCB *fc* FAILED, RC=*returncode*

Explanation: An error occurred when JQP tried to delete the FCB image from storage. Following are the possible return codes as documented in the IBM MVS/ESA ASSEMBLER SERVICES REFERENCE manual:

- 04 Requested module was not in storage, or an attempt was made to delete a system module by a caller not authorized to do so.

## JQPRPFCB05 \*\* FCB *fc* PROCESSING ERROR, RC=*returncode*

Explanation: FCB processing event failure logged to the JQPLOG data set for the FCB displayed in the message. Following are the possible return codes:

- 01 JQP detected an unknown channel code the FCB image retrieved from the SYS1.IMAGELIB data set or JQP detected an FCB with more than 12 channel codes.
- 02 CSVQUERY to obtain the FCB image length has failed, register 15 follows the return code.

**JQPRPJLR01 \*\* PJJ RESPONSE UNKNOWN AT OFFSET X"offset**

Explanation: The PJJ response from the printer contains information unknown to JQP at the offset displayed in the message. A dump of the PJJ response is written to the JQPLOG for review.

**JQPRPQDL01 \*\* DISP=RETAIN MODIFIED TO DISP=HOLD**

Explanation: Retain disposition was specified for the destination and JQP is altering the disposition to HOLD to prevent a report selection loop. This situation occurs when the retain parameters fail to prevent the report from being selected again by the same destination.

**JQPRPQDL02 \*\* DISP=RETAIN, W=writer, C=class, D=destination, F=form [HOLD]**

Explanation: Retain disposition was specified for the destination and JQP has altered the report with the retain parameters specified in the message. The literal HOLD is appended to the message when the report state is HOLD.

**JQPRPRIM01 \*\* PRINTER *printer* DEST *destination* WAITING ON FORM *form***

Explanation: Printer Switch2(8) option displays this message on the console informing the operator the next report to print requires a different form. After the correct form has been mounted on the printer, issue the "MOUNT *printer*, *form*" to start printing. Or on the Print Work Queue screen, use the "1" Start Destination line command to automatically issue the MOUNT command for the printer for a destination waiting on a form mount.

Note: After the "1" Start Destination line command is issued, all destinations for the printer have a status of STARTING. This is due to the timing of the screen task completing before the task on the printer is started.

**JQPRPRNT01 \*\* PRINTING ON *type* PRINTER *printer* STARTED  
JOB=*jobname* ID=*jobid* GRP=*groupname*  
DEST=*destination* USER=*user* XWTR=*xwriter* CLASS=*class*  
DDS=*number* LINES=*number***

Explanation: PRINT start event, for the printer and report displayed in the message, written to the JQPLOG data set.

**JQPRPRNT02 \*\* PRINTING ON *type* PRINTER *printer* SUCCESSFUL, DISP=*disposition*  
JOB=*jobname* ID=*jobid* GRP=*groupname***

Explanation: PRINT completion event, for the printer and report displayed in the message, written to the JQPLOG data set.

**JQPRPRNT03 \*\* PRINTING ON *type* PRINTER *printer* HALTED  
JOB=*jobname* ID=*jobid* GRP=*groupname***

Explanation: PRINT halt event, for the printer and report displayed in the message, written to the JQPLOG data set.

**JQPRPRNT05 \*\* SETUP MODULE *module* SELECTED**

Explanation: JQP has selected the displayed setup module for the report currently printing.

**JQPRPRNT06 \*\* PRINTING ON *type* PRINTER *printer* FAILED, FAIL-*status* DEST=*destid*  
JOB=*jobname* ID=*jobid* GRP=*groupname*  
*failed status explanation***

Explanation: PRINT failure event, as displayed in the message, logged to the JQPLOG data set for the report and printer displayed in the message.  
Reference [Appendix C](#) for destination status information.

**JQPRPRNT07 \*\* CONNECTED TO PRINTER, :PORT:*port* LPR:*port***

Explanation: Confirms printer connection displaying the TCP/IP port number where the report prints. The LPR port number displays when JQP is required to bind the LPR port to 721 through 731. Reference message [JQPRPRIP08](#) for printer's host name or address.

**JQPRPRNT08 \*\* [HOST=*hostname* | ADDRESS=*xxx.xxx.xxx.xxx*]**

Explanation: Informational only, displays the printer's TCP/IP host address or TCP/IP host name.

**JQPRPRNT09 \*\* PORT CONNECTION *status*, TRYING AGAIN IN *number* SECONDS**

Explanation: JQP attempt to connect to the TCP/IP printer has failed. JQP retries the connection in the number of seconds displayed in the message. TCP/IP connection retry attempts and the number of seconds to wait between each retry attempt is determined by the control table parameter CONNECT.  
REFUSED TCP/IP error number 61, the requested connection was refused.  
TIMEOUT TCP/IP error number 60, the connection timed out before it was completed.  
BROKEN TCP/IP error number 32, the connection is broken.

**JQPRPRNT10 \*\* REPORT SPOOLING TO DASD IS *status***

Explanation: JQP is spooling the current report to DASD for a LPD printer. The status displayed indicates the spooling is starting or has completed.

**JQPRPRNT11 \*\* CONNECTING TO PRINTER, :PORT:*por* LPR:*port***

Explanation: JQP is attempting to connect to the printer and displays the port number where the report prints. The LPR port number displays when JQP is required to bind the LPR port to 721 through 731. Reference message [JQPRPRIP08](#) for printer's host name or address.

**JQPRPRNT12 \*\* LPD SERVER HAS REJECTED THE QUEUE NAME**

Explanation: The LPD server has rejected the queue name specified for the JQP printer. Correct the JQP printer queue name or update the LPD server to allow the queue name for the JQP printer.

**JQPRPRNT13 \*\* SENDING [*control|data*] FILE TO THE [*LPD|IPP*] SERVER, LEN=*value***

Explanation: JQP is sending either the control file or data file to the LPD or IPP printer.

**JQPRPRNT21 \*\* DFP RECORD NOT FOUND, PRINTER = *printer***

Explanation: PRINT failure event, as displayed in the message, logged to the JQPLOG data set for the printer displayed in the message.

**JQPRPRNT22 \*\* PRINTER *printer* NOT AVAILABLE**

Explanation: SIMLOGON for the VTAM type printer failed.

**JQPRPRNT25 \*\* PRINTER *printer* STOPPED**

Explanation: JQP print event logged to the JQPLOG data set for the printer displayed in the message.

**JQPRPRNT26 \*\* SSOB CALL FAILED, DESTINATION *destination* DRAINED**

Explanation: Subsystem call has failed for the destination displayed in the message. The SSOB control block for the destination is written to the JQPLOG. The destination is drained.

**JQPRPRNT27 \*\* DFS RECORD NOT FOUND, DESTINATION = *destination***

Explanation: PRINT failure event, as displayed in the message, logged to the JQPLOG data set for the destination displayed in the message.

**JQPRPRNT28 \*\* PRINTER *printer* REQUIRES TLS SUPPORT**

Explanation: The printer is using a secured printer port requiring TLS support. Review the Control Table (JQPFDFACT) SUBTASK and TLS parameters to enable TLS support.

**JQPRPRNT29 \*\* DESTINATION *destination* DRAINED**

Explanation: The print request has failed causing the destination to drain.

**JQPRPRRQ01 \*\* PRINTER *printer* REQUEUED, DISP=*disposition***

Explanation: The line limit has been exceeded for the printer and has been re-queued with the disposition displayed in the message.

**JQPRPRSL01 \*\* SETUP MODULE "*module*" NOT FOUND**

Explanation: The print setup module or translation table named in the message was not found. Verify the setup module name specified for the destination is contained in a STEPLIB load library.

**JQPRPRST01 \*\* SETUP MODULE "*module*" NOT FOUND**

Explanation: The print setup module or translation table named in the message was not found. Verify the setup module name specified for the destination is contained in a STEPLIB load library.

## JQPRPRST02 \*\* SETUP MODULE "*module*" INVALID *condition*

Explanation: For condition LENGTH, the print setup module length is greater than the JQP transmission buffer size for an SCS type printer. The setup module must be reduced or the JQP transmission buffer size can be increased.  
For condition FORMAT, the print setup module format is incorrect. This condition is most likely caused by a JQP pre-version 2.2 setup module not being converted the new format.

## JQPRPRST03 \*\* SETUP MODULE "*module*" WRITE/SEND FAILURE

Explanation: JQP has received a negative return code while sending or writing the setup module codes. The setup codes are not valid for the printer, the session between JQP and the printer has terminated or the temporary data set for LPD type printers is full.

## JQPRPRTM04 \*\* RELEASE ON PRINTER *printer* WAITING *value* SECONDS

Explanation: Wait event, as displayed in the message, logged to the JQPLOG data set showing the number of seconds before the VTAM printer is released.

## JQPRPRTS01 \*\* DESTINATION(S) STARTED=*total* FAILED=*total* DRAINED=*total*

Explanation: Startup event, as displayed in the message, logged to the JQPLOG data set showing the number of destinations and printers processed.

## JQPRPRTS02 \*\* DESTINATION *destination* FAILED(*reason*), PRINTER=*printer*

Explanation: Startup event, as displayed in the message, logged to the JQPLOG data set showing the destination failing to start.

## JQPRPRTS03 \*\* ACTIVE PRINTER LIMIT EXCEEDED, PRINTER=*printer*

Explanation: The number of active printers allowed for this execution of JQP has been reached.

## JQPRPRTS04 \*\* PRINTER(S) DEFINED=*total* TCP/IP=*total* VTAM=*total*

Explanation: Startup event, as displayed in the message, logged to the JQPLOG data set showing the number of printers defined.

### JQPRPSPM01 \*\* TOO MANY OPERANDS ENTERED

Explanation: A command was entered, but too many operands were provided. Refer to the documentation for the entered command.

### JQPRPSPM02 \*\* OPERAND LENGTH EXCEEDS 72 CHARACTERS

Explanation: An operand of length greater than 72 was entered. JQP restricts all operands to 72 characters in length.

### JQPRPSPM03 \*\* UNMATCHED LITERAL DELIMITER

Explanation: A command was entered with an odd number of literal delimiters (either apostrophes (') or double quote characters (")). For every opening literal delimiter there must exist a closing literal delimiter.

### JQPRPSPM04 \*\* SYNTAX ERROR

Explanation: An entered command violated syntax rules. For information on syntax rules, see [Section V JQP Commands](#) for the appropriate command syntax.

### JQPRPTTL01 \*\* SBCS MODULE "*module*" NOT FOUND

Explanation: The print translation table named in the message was not found. Verify the setup module name specified for the destination is contained in a STEPLIB load library.

### JQPRPXAQ01 \*\* *type* STORAGE UNAVAILABLE, USER=*user*

Explanation: The type of storage display in the message is not available. Increase the size of the JQP region or decrease the number of printers supported in the JQP region.

### JQPRPXAQ02 \*\* IRRPNL00 FAILED FOR USER=*user*, RC=*rc* RS=*reason*

Explanation: The RACF Profile Name List Routine (IRRPNL00) call has failed for the user displayed in the message. Return code and reason code information is also displayed. Return code information can be found in the IBM manual z/OS V1R9.0 Security Server Macros and Interfaces SA22-7682.

### JQPRPXAQ03 \*\* IRRPNL00 WORK AREA NOT LARGE ENOUGH, INCREASING SIZE

Explanation: The buffer pool to receive the output from the RACF Profile Name List Routine (IRRPNL00) call is not large enough. JQP automatically increases the buffer size and retries the RACF IRRPNL00 call.

### JQPRRCMD01 \*\* VTAM command response

Explanation: Informational only, JQP has received the message displayed in the message from VTAM.

### JQPRRCMD02 \*\* VTAM RECVCMD FAILED, RC:*rc* FB2:*feedback2*

Explanation: A request to receive a VTAM message has failed with the return and feedback codes displayed in the message. JQP automatically retries the command to receive VTAM messages in approximately sixty seconds.

Note: RC:14, FB2:6D indicates AUTH=SPO has not been added to the JQP APPL statement.

### JQPRRLSE01 \*\* JQP RELEASE LEVEL *level*

Explanation: Informational only, JQP displays this message when the trace is active.

### JQPRSCMD01 \*\* VTAM command

Explanation: Informational only, JQP has sent the command displayed in the message to VTAM.

### JQPRSCMD02 \*\* VTAM SENDCMD FAILED, RC:*returncode* FB2:*feedback*

Explanation: A request to send a command to VTAM has failed with the return code and feedback code as displayed in the message.

Note: RC:14, FB:6D indicates AUTH=SPO has not been added to the JQP APPL statement.

## JQPRSEAF## \*\* Security Error Messages

For the following security errors check with your RACF/TOP SECRET/ACF2 administrator

JQPRSEAF06 \*\* USER(user) PROFILE NOT DEFINED

JQPRSEAF07 \*\* USER(user) PASSWORD|PHRASE NOT AUTHORIZED

JQPRSEAF08 \*\* USER(user) PASSWORD|PHRASE HAS EXPIRED

JQPRSEAF09 \*\* USER(user) NOT DEFINED

JQPRSEAF10 \*\* USER(user) FAILED BY INSTALLATION EXIT

JQPRSEAF11 \*\* USER(user) ACCESS REVOKED

JQPRSEAF12 \*\* RACF/TOP SECRET/ACF2 IS NOT ACTIVE

JQPRSEAF13 \*\* USER(user) NOT AUTH ON THIS TERMINAL

JQPRSEAF14 \*\* USER(user) NOT AUTH ON THIS APPLICATION

JQPRSEAF15 \*\* USER(user) RACINIT DELETE FAILED, RC=xx RS=xx

JQPRSEAF16 \*\* USER(user) RACINIT CREATE GENERAL ERROR, RC=xx RS=xx

JQPRSEAF17 \*\* USER(user) THE NEW PASSWORD|PHRASE IS INVALID

## JQPRSHUT01 \*\* SHUTDOWN WAITING ON PRINTER *printer*

Explanation: The SHUT command has been issued to terminate JQP. Any report currently printing are allowed to complete before JQP is terminated. This includes printers JQP is waiting on for a connection. When immediate termination is required, issue the JQP command "STOP *printer*,FORCE" for each printer displayed in the message. Or, issue the JQP command "SHUT IMMED". This command does generate an A03 ABEND.

## JQPRSMF601 \*\* SMF RECORD 6 FAILED, RC=*returncode*

Explanation: The SMFEWTM macro used to write the SMF record type 6 failed. Return codes are found in the IBM manual z/OS MVS System Management Facilities (SMF).

<u>RC</u>	<u>Description</u>
08	Length specified in the RDW was less than 18 bytes.
10	SMF is not active or has ended abnormally.
14	Installation-written IEFU83, IEFU84, or IEFU85 exit suppressed the record.
18	Data was lost.
24	Record type specified is not currently being recorded.
28	Buffer shortage caused lost of data.
2C	SMF could not establish recovery.
30	The caller was not in primary ASC mode or an incorrect ASID was encountered.

## JQPRSMLO01 \*\* VTAM SIMLOGON FAILED, PR=*printer* RC=*xx/xx* SENSE=*xxxx xxxx*

Explanation: JQP's request for session with the printer, displayed in the message, has failed. The VTAM return code, feed back and sense code information is displayed for problem determination.

## JQPRSSRC01 \*\* EXECUTING IEFSSREQ SSI-###, [R15=|SSOBRETN=|SSS2REAS=] *return code explanation*

Explanation: The subsystem request macro IEFSSREQ has been issued for the SSI number displayed in the message. This message displays register 15, SSOBRETN or SSS2REAS when necessary. Optionally, an additional line is written with this message with an explanation for the return codes. Register 15 return codes are documented in the IEFJSSOB copy member. SSOBRETN codes are documented in the IEFJSSOB copy member. SSS2REAS codes are documented in the IAXSSS2 copy member.

## JQPRSS5403 \*\* JES NODE NAME IS "*node*"

Explanation: JQP has determined the node name for the JES as displayed in the message.

## JQPRSS5404 \*\* JES VERSION IS "*version.release*"

Explanation: JQP has determined the version of JES as displayed in the message.

## JQPRSS5405 \*\* JES COMMAND PREFIX IS "*prefix*"

Explanation: JQP has determined the JES command prefix as displayed in the message.

**JQPRSUBA01 \*\* *total* SUBTASK(S) SUCCESSFULLY ATTACHED**

Explanation: JQP has successfully attached its subtasks.

**JQPRSUBD01 \*\* *total* SUBTASK(S) SUCCESSFULLY DETACHED**

Explanation: JQP has successfully detached its subtasks.

**JQPRSUBF01 \*\* JQPCNTL JCL MEMBER "*member*" NOT FOUND**

Explanation: The PDS member containing JCL to submit in the JQPCNTL data set was not found. The PDS member name is either the destination name or printer name \$FILE. In the event the destination name is not found, JQP automatically attempts to locate the printer name \$FILE.

**JQPRSUBF02 \*\* *ddname function* FAILED, MEMBER=*member* RC =*rc***

Explanation: The option for printer \$FILE to submit JCL has failed for the PDS member displayed in the message. The return code for the function displayed in the message is documented in the IBM manual DFSMS Macro Instructions for Data Sets.

**JQPRTBSE01 \*\* PRINTER *printer* SECURED**

Explanation: A report for the printer displayed in the message doesn't contain the proper OWNER ID. The report is placed in a HOLD status.

**JQPRTCPT02 \*\* REQUEST=*request* PRINTER=*printer* RC=*rc***

Explanation: Displays TCP/IP call tracing information.

**JQPRTIMF01 \*\* DESTINATION *destination* RESTARTED**

Explanation: JQP has detected a report has failed due to a connection error and has restarted the print request after the number of minutes specified in the Control Table Connect 3<sup>rd</sup> parameter.

**JQPRTIMI01 \*\* INTERVENTION REQUIRED ON PRINTER *printer***

Explanation: JQP detected an I/O wait for the VTAM printer displayed in the message. When the control table parameter HIREQ is set to NO, this message is issued every 60 seconds JQP waits for a response from an I/O request to the printer. When the control table parameter HIREQ is set to YES, this message is highlighted and issued only once for any I/O wait. Reference the control table parameter [HIREQ](#).

**JQPRTPN01 \*\* *applid* SHUTDOWN IN RESPONSE TO VTAM HALT QUICK**

Explanation: JQP shutdown started as a result of VTAM termination.

## JQPRUESC01 \*\* UNABLE TO UN-ESCAPE CHARACTER

Explanation: Print transform failure event logged to the JQPLOG data set. The MPT server has returned invalid hexadecimal escape sequence to JQP.

## JQPRVSR01 \*\* JQPFIL ERROR, RC=*r15*, RS=*reason*, FUN=*function*

Explanation: While processing the VSAM file request displayed in the message, an error condition has been detected. The return and reason codes are displayed in hexadecimal and can be found in the IBM manual "DFSMS/MVS Macro Instructions for Data Sets".

## JQPRXCFM01 \*\* ARM REQUEST=*request* SUCCESSFUL

Explanation: The Automatic Restart Management request displayed in the message was successful.

## JQPRXCFM02 \*\* ARM REQUEST=*request* FAILED, RC=*rc* RS=*reason*

Explanation: The Automatic Restart Management request displayed in the message has failed. The return code and reason codes are documented in the IBM manual MVS Sysplex Services Reference.

## JQPRXDMU01 \*\* EXTENDED DATA STREAM GREATER THAN MAX. DATA IGNORED

Explanation: An extended data stream processed by JQP contained more than eight pairs of control information. Only the first eight pairs are saved. The remaining pairs are ignored.

## JQPRXDMU02 EXTENDED DATA STREAM MASK BUFFER EXCEEDED. DATA IGNORED

Explanation: JQP's internal extended data stream mask table has been exceeded. Extended data stream combinations already known to JQP continue to process. Any new extended data stream combinations are ignored.

## JQPRXDSU01 \*\* NO EXTENDED DATA STREAM (XDS) BUFFERS AVAILABLE

Explanation: An extended data stream processing function in JQP requires a XDS buffer and none are available. The number of XDS buffers is set in the Control Table (JQPFDFACT) with the XDSPCT parameter.

## PING [xxx.xxx.xxx.xxx | DNS(xxx.xxx.xxx.xxx)] status

Explanation: Informational only; displays the status of the PING command. To trace the PING command, turn on the JQP trace for the terminal issuing the PING command. The Domain Name Server (DNS) name is displayed when used; however, it limited to the amount of space available in the message.

### Status

OK, #.###	The PING command has completed in the number of seconds displayed in the message.
TIMED OUT	The PING command has failed to complete in ten seconds.
ERR RC=##	The PING command has failed with the return code displayed in the message. RC=01 - invalid version or header length reply. RC=02 – not an echo reply RC=03 – identify and/or sequence number mismatch RC=04 – echo data mismatch

## 6.9 JQP TLS Secure Socket Error Messages

The following is a list of all TLS secure socket error messages JQP may display along with additional information about the error condition:

**JQPE508 \*\* GSK READ ROUTINE RETURNED RETCODE=-1 ERRNO=*number***

Explanation: The TLS secure socket read routine failed attempting to read from a socket.

**JQPE509 \*\* GSK READ ROUTINE SUCCESSFULLY PROCESSED *number* BYTES**

Explanation: The number of raw bytes the SSL secure socket read routine obtained from a socket read.

**JQPE510 \*\* GSK SOCKET = *socket*, NBYTE=*length***

Explanation: Trace record providing the socket number and length of data for various socket functions.

**JQPE562-CIPHER in use: *cipher***

Explanation: Transport Layer Security (TLS) Cipher in use.

**JQPE580-invalid subipreq**

Explanation: The function requested in the SUB communication block is invalid. This is an internal logic error. Contact technical support for assistance.

**JQPE581-unable to allocate comm area**

Explanation: The SUB communication block cannot be allocated. This is an internal logic error. Contact technical support for assistance.

**JQPE582-gsk\_secure\_socket\_shutdown,(hex) status:*code***

Explanation: The secure socket shutdown command has failed with the status code displayed within the message. Message JQPE589 follows with the status code displayed in text form. Contact technical support for assistance.

**JQPE583-gsk\_environment\_open() failed,(hex) RC:*code***

Explanation: The secure socket open command has failed with the status code displayed within the message. Message JQPE589 follows with the status code displayed in text form. Contact technical support for assistance.

### **JQPE588-gsk\_attribute\_set\_numeric\_value() failed,(hex) status:code**

Explanation: The secure socket set numeric value command has failed with the status code displayed within the message. Message JQPE589 follows with the status code displayed in text form. Contact technical support for assistance.

### **JQPE589-message text**

Explanation: This message follows other messages with the status code displayed in text form.

### **JQPE590-gsk\_attribute\_set\_enum,(hex)status:code**

Explanation: The secure socket set enumerated value command has failed with the status code displayed within the message. Message JQPE589 follows with the status code displayed in text form. Contact technical support for assistance.

### **JQPE591-gsk\_attribute\_set\_buffer,(hex)status:**

Explanation: The secure socket set character information command has failed with the status code displayed within the message. Message JQPE589 follows with the status code displayed in text form. Contact technical support for assistance.

### **JQPE592-bad dfctlsvr value:code**

Explanation: The value specified in the Control Table (JQPFDFACT) parameter TLS is invalid. Review the parameter and make the necessary change.

### **JQPE593-gsk\_environment\_init,(hex)status:code**

Explanation: The secure socket initialize environment command has failed with the status code displayed within the message. Message JQPE589 follows with the status code displayed in text form. Contact technical support for assistance.

### **JQPE594-gsk\_secure\_socket\_open,(hex)status:code**

Explanation: The secure socket open socket command has failed with the status code displayed within the message. Message JQPE589 follows with the status code displayed in text form. Contact technical support for assistance.

### **JQPE595-gsk\_attribute\_set\_callback,(hex)status:code**

Explanation: The secure socket set SSL callback command has failed with the status code displayed within the message. Message JQPE589 follows with the status code displayed in text form. Contact technical support for assistance.

### **JQPE596-gsk\_attribute\_get\_buffer,(hex)status:code**

Explanation: The secure socket obtaining specific character string information command has failed with the status code displayed within the message. Message JQPE589 follows with the status code displayed in text form. Contact technical support for assistance.

### **JQPE597-invalid sbc\_ssl\_swi:code**

Explanation: The SBC control block contains an invalid value for SBC\_SSL\_SWI. Contact technical support for assistance.

### **JQPE598-gsk\_secure\_socket\_init,(hex)status:code**

Explanation: The secure socket initialize secure socket connection command has failed with the status code displayed within the message. Message JQPE589 follows with the status code displayed in text form. Contact technical support for assistance.

### **JQPE599-bad addressability to JQPDCIPH**

Explanation: An internal logic error has occurred in JQP. Please contact technical support for assistance.

## 6.10 JQP Table Macro Messages

For help correcting a problem reported in a JQP\$DCF## message, see Section [3.10 – JQPDFCF LPD Control File Group Table](#).

For help correcting a problem reported in a JQP\$DFC## message, See Section [3.3 - JQPDFCT Control Table](#)

For help correcting a problem reported in a JQP\$DFE## message, see Section [3.5 - JQPDFMC Logon Macro Table](#).

For help correcting a problem reported in a JQP\$DFI## message, See Section [2.13 - Modifications to JQFDIxx Modules](#).

For help correcting a problem reported in a JQP\$DFJ## message, see Section [3.12 – JQPDFEJ Email Job Name Table](#).

For help correcting a problem reported in a JQP\$DFM## message, See Section [3.6 – JQPDFMS Message Table](#).

For help correcting a problem reported in a JQP\$DFP## message, see Section [3.7 - JQPDFPH Physical Table](#).

For help correcting a problem reported in a JQP\$DFS## message, see Section [3.4 - JQPDFDS Destination Table](#).

For help correcting a problem reported in a JQP\$DFT## message, see Section [3.11 – JQPDFPT Print Transform Member Table](#).

For help correcting a problem reported in a JQP\$DFU## message, see Section [3.9 - JQPDFUS User Table](#).

For help correcting a problem reported in a JQP\$DFX## message, see Section [3.2 - JQPDFCM Command Table](#).

For help correcting a problem reported in a JQP\$DXP## message, see Section [3.8 JQPDFPX Printer Group Table](#).

For help correcting a problem reported in a JQP\$FNT## message, see Section [3.13 – JQPDFNT Font Name Table](#).

For help correcting a problem reported in a JQP\$RST## message, see Section [3.15 – JQPTRST Automatic Restart Table](#).

For help correcting a problem reported in a JQP\$TBS## message, see Section [3.14 – JQPFTBSE Printer Security Table](#).

## Appendix A

### Sample Printer Setup Modules

This appendix contains a list of sample printer setup modules provided by fellow JQP customers. **MacKinney Systems provides these samples for your use but does not take responsible in supporting the content.**

The following sample printer setup modules are located in the JQP source and load libraries.

HP2BARL	PCL Setup for HP II Landscape Green Bar
HP2BARP	PCL Setup for HP II Portrait Green Bar
HP2L	PCL Setup for HP II Landscape
HP2P	PCL Setup for HP II Portrait
HP3SILDU	PCL Setup for HP 3SI Landscape Duplex
HP3SILS	PCL Setup for HP 3SI Landscape Simplex
HP3SIPDU	PCL Setup for HP 3SI Portrait Duplex
HP3SIPS	PCL Setup for HP 3SI Portrait Simplex
HP3SIWDU	PCL Setup for HP 3SI Wide Duplex
HP3SIWS	PCL Setup for HP 3SI Wide Simplex
PSL1STD	Postscript, Landscape Simplex
PSL2STD	Postscript, Landscape Duplex
PSP1STD	Postscript, Portrait Simplex
PSP2STD	Postscript, Portrait Duplex

## Appendix B

### Double-byte Character Set Translation Tables

This appendix contains a list of Double-byte Character Set (DBCS) translation tables provided. These translation tables have been created from the CDROM include with IBM manual Character Data Representation Architecture Reference and Registry SC09-2190.

The following DBCS translation tables can be found in the JQP source and load libraries.

DBCS1	Japanese EBCDIC CCSID(300) to Japanese ASCII CCSID(301)
DBCS2	Traditional-Chinese EBCDIC CCSID(835) to Traditional-Chinese ASCII CCSID(927)
DBCS3	Korean EBCDIC CCSID(834) to Korean ASCII CSSID(926)
DBCS4	Traditional-Chinese EBCDIC CCSID(835) to Traditional-Chinese ASCII CCSID(947)
DBCS5	Simple-Chinese EBCDIC CCSID(837) to Simple-Chinese ASCII CCSID(928)
DBCS6	Simple-Chinese EBCDIC CCSID(837) to Simple-Chinese ASCII CCSID(1380)

## Appendix C

### Status Codes

This appendix contains a list of JQP destination, printing and failed status codes.

<u>Status</u>	<u>Description</u>
COMPLETE	The destination has completed printing the report and is preparing to ask for the next report to print.
DRAINED	The destination is not selecting reports to print.
HALTED	The HALT command has been issued for this destination and printing has halted.
HALTING	The HALT command has been issued for this destination and the report is in the process of halting.
PRINTING	The printing task is currently printing the report.
READY	A report is available for printing, but the printer assigned to the destination is not available.
RESTART	The destination is waiting to restart printing at the last successful page printed.
STARTING	The destination is in start-up mode.
WAITING	No reports are currently available for this destination. JQP is waiting for JES to post an ECB when reports are available meeting the selection criteria.
EDRAINED	A printing error has occurred and the destination "Error Action" parameter has specified an "error drained" status.

<u>Printing Status</u>	<u>Description</u>
PRT-1	Waiting for a JQP subtask
PRT-16	Sending data to a VTAM printer
PRT-17	Calling MPT Print Transform
PRT-80	Calling a GDDM function
PRT-91	Timer wait for one of the following: 1. TCP printer connection retry wait 2. TCP printer release (close socket) delay 3. VTAM printer release (close session) delay
PRT-108	TLS Socket Initialize
PRT-109	TLS Socket Close
PRT-110	TLS Socket Read
PRT-111	TLS Socket Write
PRT-193	TCP Bind Socket request
PRT-194	TCP Close Socket request
PRT-195	TCP Connect Socket request
PRT-196	TCP Create Socket request
PRT-197	TCP Create Socket Raw request
PRT-198	TCP Get Host by Name request
PRT-199	TCP Get Host ID request
PRT-200	TCP Get Host Name request
PRT-201	TCP Initialize API request
PRT-209	TCP Read Socket request
PRT-210	TCP Receive From request
PRT-211	TCP Receive From Peek request
PRT-212	TCP Select request
PRT-213	TCP Send To request
PRT-214	TCP Shutdown To request
PRT-215	TCP Shutdown From request
PRT-216	TCP Shutdown Both request
PRT-217	TCP Terminate API request
PRT-226	TCP Write Socket request
PRT-231	TCP get peer name
PRT-241	Dynamic allocation function
PRT-242	Dynamic un-allocation function
PRT-243	Close DCB function
PRT-244	Open DCB function
PRT-246	Read DCB function

<u>Failed Status</u>	<u>Description</u>
FAIL-01	DFS (destination) record not found
FAIL-02	DFP (printer) record not found
FAIL-03	DFT (transform member) record not found
FAIL-04	Send to VTAM printer has failed
FAIL-05	FCB processing has failed 1. Unable to locate the FCB image in SYS1.IMAGLIB 2. Unable to load the FCB image from SYS1.IMAGLIB 3. FCB processing failure Check the JQPLOG for messages.
FAIL-06	Printer setup has failed 1. Unable to locate the setup module. 2. For VTAM, setup module length greater than TRBSIZE 3. Setup module has invalid format Check the JQPLOG for messages.
FAIL-07	VTAM SIMLOGON has failed
FAIL-08	Received an incorrect PJL response, check JQPLOG.
FAIL-09	Dynamic allocation has failed JES data set, LPD temporary data set, GDDM temporary data set or \$FILE data set dynamic allocation failure Check the JQPLOG and SYSLOG for messages.
FAIL-0A	Open DCB error LPD temporary data set, GDDM temporary data set or \$FILE data set open data set failure Check the JQPLOG for messages.
FAIL-0B	Dynamic un-allocation has failed LPD temporary data set, GDDM temporary data set or \$FILE data set un-allocation data set failure Check the JQPLOG and SYSLOG for messages.
FAIL-0C	DCB write has failed LPD temporary data set, GDDM temporary data set or \$FILE data set write data set failure Check the JQPLOG for messages.
FAIL-0F	Report deletion has failed Unable to locate 1st DD in the data set group, stop and start printer.
FAIL-10	Report restart has failed 1. Invalid restart DSID number or page number 2. No MCC or ASA carriage control for report
FAIL-11	Read DCB error JES data set read failure Check the JQPLOG for messages.
FAIL-12	Maximum record length (4060) exceeded 1. For (RAW=NO or RAW=YS4), WIDTH=0 or LRECL greater than 8192 2. For \$FILE, LRECL greater than (32756-4) 3. For GDDM, LRECL greater than 133 4. For VTAM, LRECL greater 2k (2000) or 4k (4000)
FAIL-13	Double Byte Character String error 1. Unable to locate/load DBCS table 2. DBCS processing error 3. Check the JQPLOG for messages.
FAIL-14	Single Byte Character String error 1. Unable to locate/load SBCS table Check the JQPLOG for messages.
FAIL-15	SAPI Logic Failure SAPI return code not zero Stop and start the printer Check the JQPLOG for messages.
FAIL-16	ADMOPUJ module load failure
FAIL-17	ADMOPUJ Open failure
FAIL-18	ADMOPUJ Print failure
FAIL-19	ADMOPUJ Close failure
FAIL-1A	ADMOPUJ Storage failure
FAIL-1B	No buffer available for printing

<u>Failed Status</u>	<u>Description</u>
FAIL-1D	MPT Print Transform Failure Check the JQPLOG for messages.
FAIL-1F	TCP/IP Host Unknown
FAIL-20	TCP/IP is not supported Reference Control Table JQPFDCT <a href="#">TCPIP</a> parameter
FAIL-21	TCP/IP Bind Socket failed
FAIL-22	TCP/IP Close Socket failed
FAIL-23	TCP/IP Connect Socket failed
FAIL-24	TCP/IP Create Socket failed
FAIL-26	TCP/IP Read Socket failed
FAIL-27	TCP/IP Shutdown Both failed
FAIL-28	TCP/IP Shutdown From failed
FAIL-29	TCP/IP Shutdown To failed
FAIL-2A	TCP/IP Write Socket failed
FAIL-2B	TCP/IP LPD Queue Name rejected
FAIL-2C	TCP/IP LPD Negative Acknowledgement
FAIL-2D	TCP/IP Select Socket failed
FAIL-2E	TCP/IP Read From (Peek) failed
FAIL-30	JQP Exit JQPFEX01 returned a negative return code
FAIL-31	PJL Incorrect Response received
FAIL-32	PJL JOB Canceled at the printer's console
FAIL-33	PJL Response Timed-out
FAIL-34	JQP exit JQPFEX03 returned negative return code
FAIL-35	IPP printer invalid response received
FAIL-36	GSK initialization routine failed

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