

Queue400

Spoolfile Utility

Queue400 (Q400) is a tool for saving and restoring spoolfiles to and from tape, or save files. Archive information is kept on –line in a save history database.

Queue400 also converts spoolfiles to PC and Fiche formats.

Version 5.1.1.

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A small, stylized illustration of a squirrel, likely the logo for Healy Software Technologies.

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Queue400 OVERVIEW

Queue400 is divided mainly into four parts:

1. Saving or backing-up spoolfiles
2. Restoring Spoolfiles
3. Using spoolfile archive history
4. Purging or clearing spoolfiles

Saving Spoolfiles.

This is done through one command (SAVSPLF) for batch and interactive saving of spoolfiles. In batch mode you can save all spoolfiles in one or more output queues to tape or diskette or save file. In interactive environments you may select individual spoolfiles from a list of spoolfiles in the output queue, or you may specify that all spoolfiles in the output queue be saved. If you specify ***SELECT** for the **OUTQ** parameter(as against the spoolfile parameter), the procedure begins with a list of output queues. You may then process each OUTQ. stepping down through the list. The spoolfiles processed can be further defined by using selection parameters such as **user, spoolfile name, age, status, user data and formtype** date range and more. Spoolfiles can be saved in backup/restore format (*SAVRST) or in microfiche format (*FICHE) or in PC format (*LASER).

Restoring Spoolfiles.

Using the WRKSAVOPS (Work with Save Operations) command details of spoolfile save operations are displayed. Details include save date/time, volume, user, device, sequence, label or save file name and library. Selection criteria include save date/time, volume, user, device and more. A restore option exists for each save operation displayed.

With the RSTSPLF command you can restore and reprint all spoolfiles from a tape, diskette or save file, or pick the individual ones you want from a list of saved spoolfiles. Spoolfiles can be viewed and/or reprinted. You need only restore the individual spoolfile that you are interested in. When viewing the list of spoolfiles in the tape, you can select a subset, using the **user, outq, spoolfile name, job name, job number, job date, user data, and formtype** parameters in any combination.

Viewing Spoolfile Save History.

Using the command DSPSAVLOG you can view the log of spoolfile saves. A particular spoolfile can be located, along with information about the save, such as the device, volume, and save date and time. The command WRKSAVOPS shows details of save operations.

Purging or clearing Spoolfiles.

The CLRSPLF command deletes spoolfiles from the AS400. There are several optional selection criteria on the command. Spoolfiles can be cleared by **outq, user, spoolfile name, age, status, user data, formtype, date range** and other parameters. Any combination of these parameters can be used. You may specify that all output queues are to be processed, or you may select from a list. Likewise you may specify that all spoolfiles in the output queue are to be processed, or you may choose from a list of entries.



Moving Spoolfiles.

The MOV SPLF command deletes spoolfiles from the AS400. There are several optional selection criteria on the command. Spoolfiles can be selected for moving by **outq**, **user**, **spoolfile name**, **age**, **status**, **user data**, **formtype**, **date range** and other parameters. Any combination of these parameters can be used. You may specify that all output queues are to be processed, or you may select from a list. Likewise you may specify that all spoolfiles in the output queue are to be processed, or you may choose from a list of entries. Output queues can be omitted.



Chapter2

Q400 installation, etc.

Installing Q400 after downloading from the Internet

If you are upgrading a previous installation of Queue400 or installing from tape, please see separate sections below.

1. SIGNON AS QSECOFR.

You have downloaded a zip file containing an AS400 save file and a manual in both Word and pdf format.

2. Unzip the file **Q400.zip**.

3. Send the file Q400.svf to your AS400 (use ftp in **binary** mode or another **binary** file transfer method) as follows:

4. Create a save file called Q400 in library QTEMP or QGPL. Put or transfer the file Q400.svf to the save file on the AS400.

If the transfer to the save file is successful, please proceed with Step 5.

If your transfer facility will only let you transfer to a physical file then do the following:

- 4a. Create a physical file with a record length of 528.
- 4b. Transfer the file Q400.svf to the physical file on the AS400.
- 4c. Using the SNDNETF command send the physical file to user QUSER as follows:
`SNDNETF FILE(QGPL/physical~file) TOUSRID((QUSER QUSER))`.
- 4d. Create the save file if you have not done so already. Create it as a save file called Q400 in library QGPL.
- 4e. Use the WRKNETF *QUSER* command to display the network file created in Step 3c.
- 4f. Take option 1 to receive the network file and press F4 to prompt for the name of the file to receive the network file.
- 4g. Enter the name of the save file you created in the '*To data base file*' or TOFILE parameter.
- 4h. Press ENTER. The message 'File *physical~file* member *member* number x received' is displayed.
- 4i. The data is now in the save file and you are ready to restore from it.

5. Restore the library Q400 from the save file.

6. Duplicate all **commands** from library Q400 to QGPL.



7. Type the SAVSPLF or RSTSPLF command and press ENTER. A display will appear stating that the expiry date for the use of Q400 has been reached. You need to contact Healy Software or their local agent for the access codes, to begin using Q400. Please quote your machine serial number (system value QSRLNBR), model (system value QMODEL), processor feature code (system value QPRCFEAT) and also partition number. Once you enter the access codes, the installation procedure is complete. We suggest you SAVLIB Q400 at this stage, for backup purposes.

To contact Healy Software for access codes:

In the UK	:	Telephone: 0800 973 294	Fax: 00 353 21 4502020
In the US	:	Telephone: 1888 388 5224	Fax: 1888 777 6961
Rest of the World	:	Telephone: + 353 21 4502804	Fax: + 353 21 4502020
Email	:	healysof@indigo.ie	



Installing Q400 from tape

If you are installing after downloading from the internet, please see previous section.

If you are upgrading a previous installation of Queue400, please see separate sections below.

1. SIGNON AS QSECOFR.

2. LOAD TAPE.

3. Enter the following command:

RSTOBJ OBJ(install*) SAVLIB(q400) DEV(Tapxx) RSTLIB(qtemp)
(where tapxx is the name of the tape drive you are using)

A message should appear:

2 objects restored from Q400 to QTEMP

4. Now enter another command:

INSTALL tapxx (where tapxx is the name of the tape drive you are using)

5. Wait for the message:

Q400 HAS SUCCESSFULLY BEEN INSTALLED.

6. Type the SAVSPLF or RSTSPLF command and press ENTER. A display will appear stating that the expiry date for the use of Q400 has been reached. You need to contact Healy Software International or their local agent for the access codes, to begin using Q400. Please quote your machine serial number (system value QSRLNBR), model (system value QMODEL), processor feature code (system value QPRCFEAT) and also partition number. Once you enter the access codes, the installation procedure is complete. We suggest you SAVLIB Q400 at this stage, for backup purposes.

To contact Healy Software for access codes:

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Email	:	healysof@indigo.ie	



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Upgrading Q400 after downloading from the Internet

***note:** Access codes and save history data are automatically preserved during the upgrade procedure.

1. SIGNON AS QSECOFR.

You have downloaded a zip file containing an AS400 save file and a manual in both Word and pdf format.

2. Unzip the file **Q400.zip**.

3. Send the file Q400.svf to your AS400 (use ftp in **binary** mode or another **binary** file transfer method) as follows:

4. Create a save file called Q400 in library QGPL. Put or transfer the file Q400.svf to the save file on the AS400.

If the transfer to the save file is successful, please proceed with Step 5.

If your transfer facility will only let you transfer to a physical file then do the following:

- 4a. Create a physical file with a record length of 528.
- 4b. Transfer the file Q400.svf to the physical file on the AS400.
- 4c. Using the SNDNETF command send the physical file to user QUSER as follows:
`SNDNETF FILE(QGPL/physical~file) TOUSRID((QUSER QUSER))`.
- 4d. Create the save file if you have not done so already. Create it as a save file called Q400 in library QGPL.
- 4e Use the WRKNETF *QUSER* command to display the network file created in Step 3c.
- 4f Take option 1 to receive the network file and press F4 to prompt for the name of the file to receive the network file.
- 4g Enter the name of the save file you created in the '*To data base file*' or TOFILE parameter.
- 4h Press ENTER. The message 'File *physical~file* member *member* number *x* received' is displayed.
- 4i . The data is now in the save file and you are ready to restore from it.

5. Restore the install procedure from the save file.

```
RSTOBJ OBJ(INSTALL*) SAVLIB(Q400) DEV(*SAVF) SAVF(QGPL/Q400) RSTLIB(QTEMP)
```

A message should appear:

2 objects restored from Q400 to QTEMP

6. Now enter another command:



INSTALL DEV(*SAVF) SAVF(Q400) SFLIB(QGPL)
INSTALL tapxx (where tapxx is the name of the tape drive you are using)

7. Wait for the message:
Q400 HAS SUCCESSFULLY BEEN UPGRADED.

8. Type the SAVSPLF or RSTSPLF command and press ENTER. If a display appears stating that the expiry date for the use of Q400 has been reached, you need to contact Healy Software or their local agent for the access codes, to resume using Q400. Please quote your machine serial number (system value QSRLNBR), model (system value QMODEL), processor feature code (system value QPRCFEAT) and also partition number.

The upgrade procedure is complete. We suggest you SAVLIB Q400 at this stage, for backup purposes.

To contact Healy Software for access codes:

In the UK	:	Telephone: 0800 973 294	Fax: 00 353 21 4502020
In the US	:	Telephone: 1888 388 5224	Fax: 1888 777 6961
Rest of the World	:	Telephone: + 353 21 4502804	Fax: + 353 21 4502020
Email	:	healysof@indigo.ie	



Upgrading Q400 from tape

***note:** Access codes and save history data are automatically preserved during the upgrade procedure.

1. SIGNON AS QSECOFR.
2. LOAD TAPE.
3. Enter the following command:

RSTOBJ OBJ(install*) SAVLIB(q400) DEV(Tapxx) RSTLIB(qtemp)
(where tapxx is the name of the tape drive you are using)

A message should appear:
2 objects restored from Q400 to QTEMP

4. Now enter another command:
INSTALL tapxx (where tapxx is the name of the tape drive you are using)
5. Wait for the message:
Q400 HAS SUCCESSFULLY BEEN UPGRADED.

Copying Q400 from one AS400 to another

You can copy Q400 from one AS400 to another using at least 2 methods. When the AS400s are on a network, use the SAVLIB command to save library Q400 to a save file. Then send the save file to the AS400 that requires Q400. Next RSTLIB Q400, and also CRTDUPOBJ of all commands from library Q400 to QGPL.

Alternatively use a tape to SAVLIB Q400 from one AS400 and RSTLIB Q400 from that tape on the second AS400. Also CRTDUPOBJ of all commands from library Q400 to QGPL.

When Q400 has been restored from tape or by save file, type the SAVSPLF or RSTSPLF command and press ENTER. A display will appear stating that the expiry date for the use of Q400 has been reached. You need to call or fax us for the access codes, to begin using Q400. Please quote your machine serial number (system value QSRLNBR), model (system value QMODEL), processor feature code (system value QPRCFEAT) and also partition number.



Chapter 3.**SAVSPLF (Save Spoolfile) Command****Description**

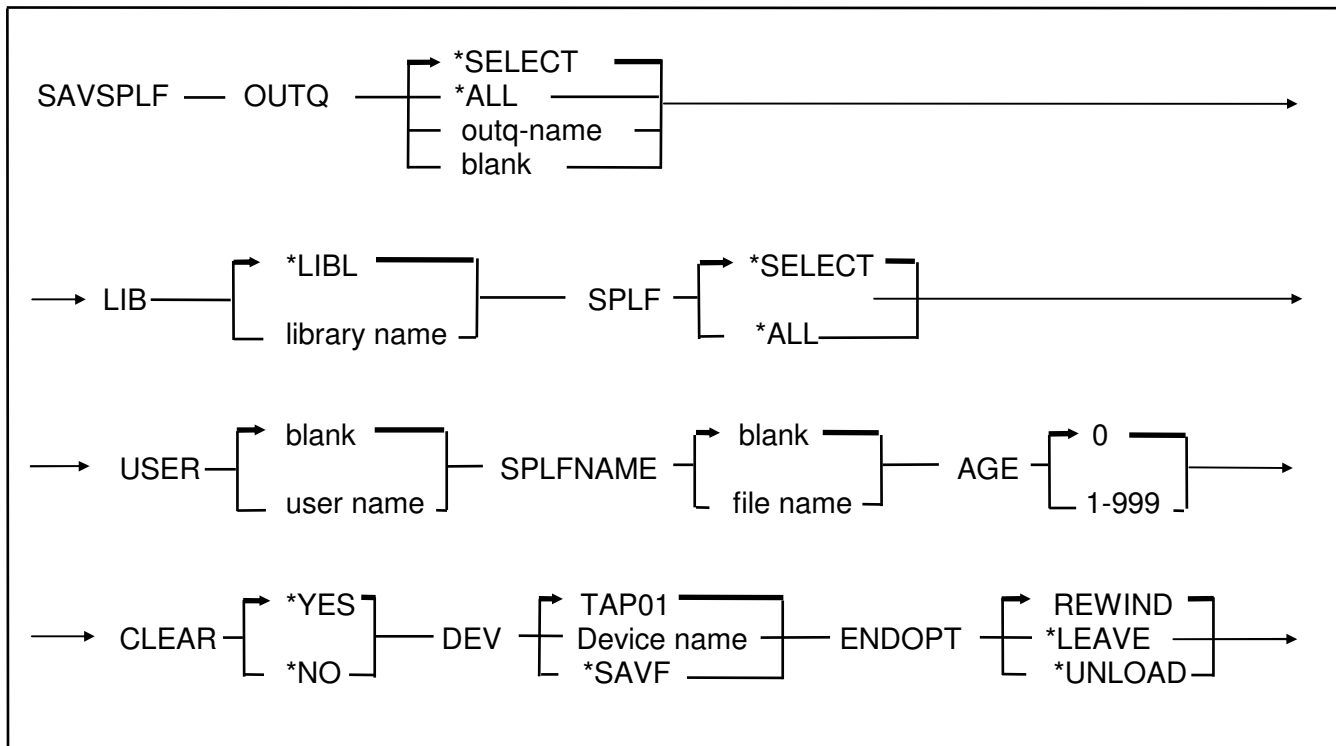
The Save Spoolfile Command (SAVSPLF) saves spoolfiles to tape or save file from one or more output queues.

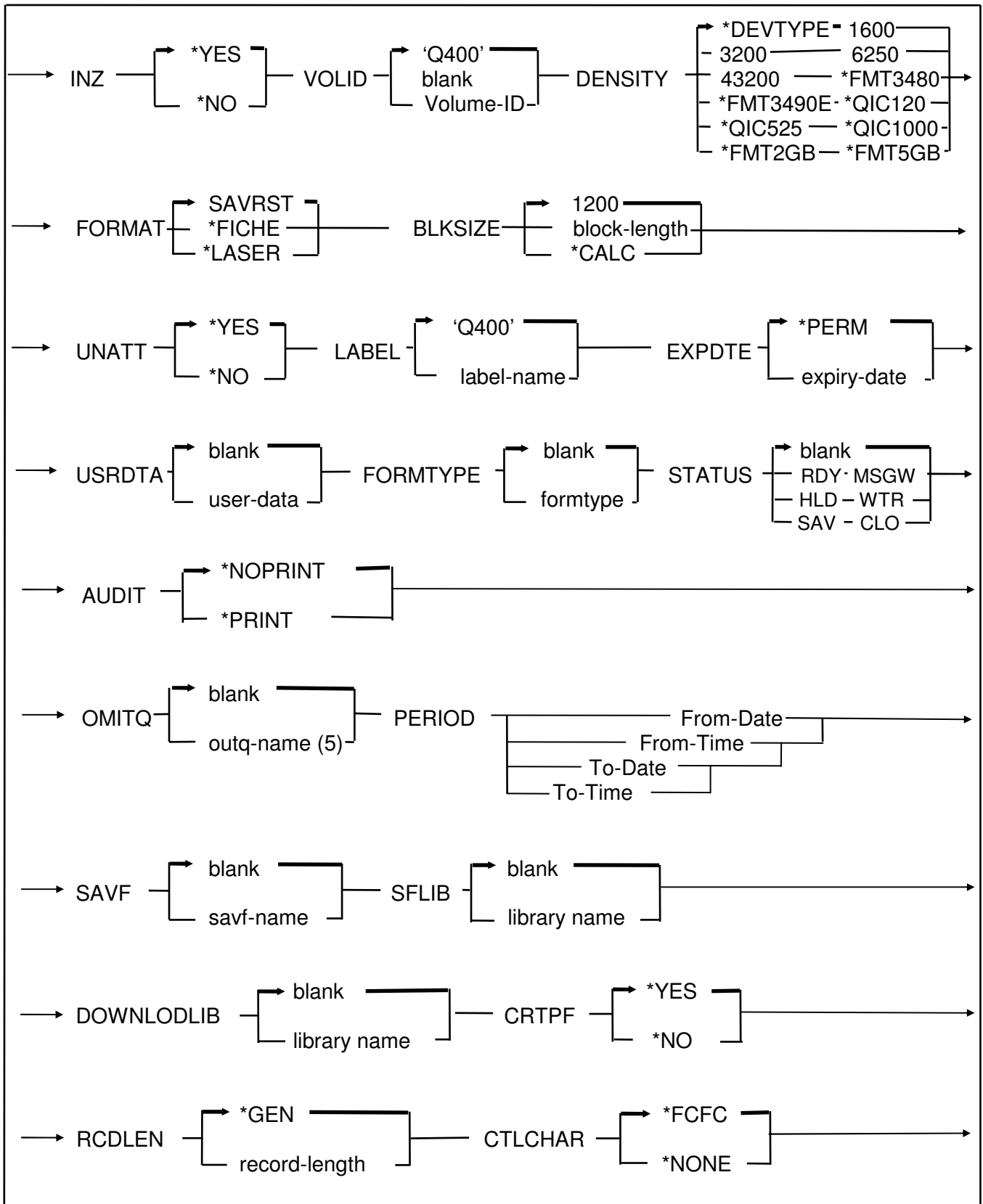
You may specify that all output queues are to be processed, or you may select from a list. Likewise you may specify that all spoolfiles in the output queue are to be processed, or you may choose from a list of entries.

You may further restrict the spoolfiles you wish to process by specifying a user or a spoolfile name, or the age of the spoolfile. In addition the spoolfile status, user data and formtype can be used to select files for saving. Any combination of these parameters is permissible.

Having specified ***SELECT** you may, while browsing a list, request that the entire list be processed,

The SAVSPLF command can be executed on its own, or within a program, in an interactive or batch environment. The parameter value *SELECT is not allowed in batch mode.





Parameters

OUTQ Parameter

Specifies the output queue from which the spoolfiles are to be saved.

***SELECT** : (or blank) will display a list of output queues, from which you may pick for processing. Not allowed in batch mode.

***ALL** : The program will process all output queues on the system.

Output-queue: The program will process the named output queue.

LIB Parameter

Specify the library in which the **OUTQ** resides, or, leave as ***LIBL** in which case the library is found from your library list.

SPLF Parameter

This parameter specifies which entries in the output queue are to be saved. You may specify that all entries are to be saved, or request a list from which to choose.

***SELECT** : A list of entries will be displayed, from which to pick individual spoolfiles. Not allowed in batch mode.

*** ALL** : All entries in the output queue are to be saved.

USER Parameter

Restrict processing to the named user, or leave blank for all users to be processed.

SPLFNAME Parameter

Restrict processing to the spoolfile named, or leave blank for all spoolfiles.

AGE Parameter

Specify the age of the spoolfile in days. Only the spoolfile whose ages are equal to or greater than the number of days, are displayed or saved.

0 : Any spoolfile is processed.

1 - 999 : Processing is restricted to those spoolfiles as old as, or older than the number of days specified.

CLEAR Parameter

Specify whether to delete the spoolfiles after saving. or, leave on the output queue. (The data area QKEEP in library Q400 specifies an outq whose spoolfiles are never deleted).

***YES** : Delete spoolfiles after save.

***NO** : Do not delete spoolfiles.



DEV Parameter

Specify the name of the diskette or tape drive or *SAVF.

device-name: The name of the device i.e. DKT01 or TAP01. The default value is TAP01.

***SAVF** : Indicates that you wish to save to a save file. Q400 will prompt you for further details, see parameters SAVF and SFLIB.

ENDOPT Parameter

Relevant to tape processing only. Specify what should happen to the tape after the restore process.

Permissible values are ***REWIND**, ***LEAVE** or ***UNLOAD**.

INZ Parameter

Use this parameter to specify whether or not to initialize the tape or diskette, prior to saving the spoolfiles.

***YES** : The tape or diskette will be initialised.

***NO** : No initialisation will take place.

VOLID Parameter

Specify the new volume identifier for the diskette or tape being initialised. Enter a character value here. This parameter is relevant only if INZ is *YES.

Q400 : The default is the value 'Q400'.

Volume-ID : Use up to 7 characters.

DENSITY Parameter

Relevant to initialising tapes only. Specify the bits per inch, if different to default.

FORMAT Parameter

Specify whether save is for save/restore, for microfiche processing or for downloading to a PC.

***SAVRST** : indicates that you wish to restore the spoolfiles at a later date.

***FICHE** : the save will be in microfilm processing format.

***LASER** : the save will be in a format suitable for downloading to PC.

BLKSIZE Parameter

Use this parameter to specify the blocksize on a FICHE or LASER formatted tape only. The value specified here is checked before output to tape, and will be slightly reduced to an exact multiple of the record length of the spoolfile(s) if required. Most microfilm suppliers require a blocksize of around 12,000.



Block-length: Specify a block-length in bytes. Values 1 through 32767 are valid. The specified value may be altered by Q400 to accommodate the spoolfile record length.

***Calc** : The system calculates a blocksize.

UNATT Parameter

Specify whether a break message is sent to message queue QSYSOPR or not. The default is *NO i.e. a break message tells the operator to load the tape or diskette. If *YES the program assumes the correct tape or diskette is loaded, and no intervention is necessary. This means a save of all spoolfiles on the system could be initiated at the end of the working day, or scheduled for night time processing, without any staff needing to be on site for the save.

***NO** : A break message is sent to message queue, QSYSOPR, to load the relevant volume for the save.

***YES** : No message is sent during the save operation. The program assumes the correct tape or diskette is loaded, and outputs to the device.

LABEL Parameter

Specifies a name for identifying a particular save of spoolfiles. For example Tuesday's invoices could be labelled 'TUE-INV-1994-9-30'. On the RSTSPLF command this label could be used to distinguish multiple saves on one tape. (The sequence (SEQ) parameter on the RSTSPLF command can also be used for this purpose). The label value on the RSTSPLF command must be the same as that on the save.

Q400 : The default on both the SAVSPLF and RSTSPLF command is 'Q400'.

Identifier : Use up to 17 characters.

EXPDATE Parameter

If a date is specified here, data on the tape or diskette is protected until the date is reached.

Permissible values are *PERM for permanent protection, or a valid date.

USRDTA Parameter

Restrict processing to the user data specified, or leave blank for all spoolfiles to be processed.

FORMTYPE Parameter

Restrict processing to the formtype specified, or leave blank for all spoolfiles to be processed.

STATUS Parameter

Restrict processing to the status or stata named, or leave blank for all spoolfiles to be processed. Several different stata can be specified.

RDY, HLD, SAV, MSGW, WTR, and CLO can be specified in any combination.

PERIOD Parameter

The PERIOD parameter enables you to select spoolfiles by their date and time. You can input a range of dates and times. The dates must be input in system date format (either DMY,



MDY, YMD or JUL, see system value QDATFMT). The time can include seconds, or just hours and minutes. If you input a *from date* and *from time* Queue400 will check that the date and time the spoolfile was opened was later than that specified. If you input a *to date* and *to time* Queue400 will check that the date and time the spoolfile was opened was earlier than that specified. If you specify a *from date* and *from time* but no *to date* and *to time* Queue400 will select all the spoolfiles with a later date and time.

Similarly if you specify a *to date* and *to time* but no *from date* and *from time* Queue400 will select all the spoolfiles created before the date and time specified. If either the *from date* or *to date* are specified without times then the time is not compared, and just the date is used for comparison.

If the *from date* and *to date* are blanks but either the *from time* and/or *to time* are specified then the times alone are used for selecting spoolfiles. For example you can use this feature to select all the spoolfile created between 3.00 and 4.00 a.m. for all dates.

OMITQ Parameter

The OMITQ parameter specifies the output queue(s) to be omitted from the save process. Up to 5 output queues can be specified. You can omit all the output queues in a library by using *ALL as the output queue name and specifying the library, e.g. QGPL/*ALL .

blank: will omit all queues in the specified library. This is the same as specifying *ALL.

***ALL** : the program will not process all the output queues.

name: The program will not process the output queue named.

The possible values for the libraries are:

blank: All queues in any library that match the value specified in the omit output queue parameter will be omitted. This is the same as specifying *ALL.

***ALL:** All queues in any library that match the value specified in the omit output queue parameter will be omitted.

name: The program will not process the output queue(s) in the named library that match the value specified in the omit output queue parameter.

AUDIT Parameter

Specify whether or not a spoolfile save audit report is to be printed. This report contains a list of spoolfiles saved, the date and time of the save, the operator, the tape volume details or save file, or download details, and also indicates whether the spoolfiles were deleted after the backup or not. Total number of spoolfiles and pages are shown.

***NOPRINT** : A spoolfile save audit report will not print.

***PRINT** : A spoolfile save audit report will print.

SAVF Parameter



The prompt for this parameter only appears if DEV is specified as *SAVF. This applies to the next parameter SFLIB. The SAVF parameter specifies the name of a save file. The program assumes it is empty.

name : The name of the save file.

SFLIB Parameter

The prompt for this parameter only appears if DEV is specified as *SAVF. This applies to the previous parameter SAVF. The SFLIB parameter specifies the name of a library containing the save file.

name : The name of the library.

DOWNLODLIB Parameter

The prompt for this parameter only appears if FORMAT is specified as *LASER. Use this parameter to specify the library into which spoolfiles are to be copied for later downloading to a PC.

name : The name of the library.

CRTPF Parameter

The prompt for this parameter only appears if FORMAT is specified as *LASER. Use this parameter to automatically create the physical files(s) as they are needed.

***YES** : Create the physical file if it does not exist. The operation to the individual file will end if the file already exists.

***NO** : Do not create the physical file. This option expects the file to be there when required. If it does not exist the operations to that file will fail, but operations to other files will continue. Also, the data will be appended to the existing file - it won't be cleared beforehand.

RCDLEN Parameter

The prompt for this parameter only appears if FORMAT is specified as *LASER. Use this parameter to automatically generate the record length of the physical files, or you can specify a length. This parameter has no effect if CRTPF is *NO.

***GEN** : Generate the length of the record based on the width of the spoolfile. Forms control characters will be taken into account when calculating the length.

length : Queue400 will create all the physical files used in the save, with the record length specified here. You must allow for forms control characters when calculating the record length. For example, if you are saving standard reports with 132 columns, you must specify 133 if you are requesting for control characters (*FCFC), or just 132 if no forms control characters are required on the PC.

CTLCHAR Parameter

The prompt for this parameter only appears if FORMAT is specified as *LASER. Before downloading to a PC, you should know if you need forms control characters in the spoolfile data. These characters indicate when to skip lines and when to jump forward to the top of the



page etc. If you specify *FCFC the control characters will be inserted in the leftmost column of the spoolfile data. The record length of the physical file needs to be 1 greater because of the control character. If you specified *GEN on the RCDLEN (record length) parameter Queue400 will automatically generate the correct record length. If you are specifying the record length explicitly in the RCDLEN parameter then you need to add 1 to the number of columns.

***FCFC** : The forms control characters are inserted in the leftmost column of the spoolfile.

***NONE** : No forms control characters will be inserted.

Selecting from a list of output queues.

If you specify *SELECT for the parameter **OUTQ**, the program displays a list of output queues. If you enter '1' in the select field, two things can happen, depending on the SPLF parameter;

- If you entered *ALL on the **SPLF** parameter, then the above display does not change. All the spoolfiles in the output queue are copied.
- If you specified *SELECT for **SPLF** parameter, the output queue is displayed.

You may then select the individual spoolfiles or request that all spoolfiles be copied.

Several output queues may be processed together or you may process them one at a time.

When Q400 is finished processing the output queue(s) you selected, press **F3** to exit. The spoolfiles are then saved to tape (or diskette, or save file).



Sel	Outq	Library	Files	Selected	Writer	Status
1	ACCOUNTS	QGPL	0	0		RELEASED
—	ACCOUNTS2	QGPL	21	0	ACCOUNTS2	RELEASED
—	INVOICES	QGPL	0	0	INVOICES	RELEASED
—	JOBLOGS	QGPL	921	0	JOBLOGS	RELEASED
—	PROD1	QGPL	0	0		RELEASED
—	PROG1	QGPL	94	0	PROG1	RELEASED
—	PRT01	QGPL	18	0	PRT01	RELEASED
—	QPRINT	QGPL	15	0		RELEASED
—	RECPTN	QGPL	46	0	RECPTN	RELEASED
—	SECURITY	QGPL	0	0	SECURITY	RELEASED
—	SHIP1	QGPL	21	0	SHIP1	RELEASED
—	SHIP2	QGPL	0	0		RELEASED
—	SHIP3	QGPL	0	0	SHIP3	RELEASED
—	SHIP4	QGPL	0	0	SHIP4	RELEASED

Fig 1. All output queues are displayed after specifying OUTQ(*SELECT).

Selecting from a list of spoolfiles

If you specify *SELECT for the parameter SPLF, the program displays the spoolfile entries in the output queue. The output queue display is either named in the SAVSPLF command, or selected from a list of all output queues.

Enter '1' in the selection field to pick a spoolfile for saving. The line on the screen will be highlighted, and the '**F17-UPDATE**' banner will flash at the bottom of the screen. If you have made an error, enter '0' to deselect the line. You may enter '1' against other lines, or take other select options. No update will take place until **F17** is taken.

If you decide to save the entire output queue, take **F13**. Again the '**F17-UPDATE**' banner will flash. If you change your mind take **F13** again, and the pending update will be cancelled.

Enter '5' in the selection field to display the contents of a spoolfile.

Enter '8' to display the attributes of the spoolfile. This option displays all the attributes on one screen. This same screen can be seen on the RSTSPLF detail display, when files are selected for reprinting.



Session : 0 -- Address : 5

File Edit View Macros Session Help

Q400U51 Q U E U E 4 0 0 23/01/1997 9:30:12

QSYSOPR

OUTPUT QUEUE: QPRINT LIBRARY: QGPL

Enter 1 to select, 5 to display, 8 or 9 for attributes, 0 to reset

1	File	User	User Data	Status	Pages	Copies	Formtype	Pty	Number
1	CONSNOTES	JESSICA	SHPU04	RDY	33	1	CONSNOTE1	5	1
—	QSYSPRT	JESSICA		RDY	1	1	*STD	5	1
—	QSYSPRT	ISABEL		RDY	21	1	*STD	5	1
—	QPRINT	ISABEL		RDY	7	1	*STD	5	1
—	INVOICES	BARBARA	ORDU51	RDY	71	1	INVOICEX2	5	1
—	QSYSPRT	BARBARA		RDY	52	1	*STD	5	1
—	QSYSPRT	BARBARA		RDY	147	1	*STD	5	1
—	STATEMENTS	PATRICIA	SHPU11	RDY	541	1	STATEMENTS	5	1
—	QSYSPRT	MIRIAM		RDY	8471	1	*STD	5	1
—	QSYSPRT	ELAINE	SHPR75	RDY	2048	1	*STD	5	1
—	QPJOBLOG	DESPATCH		RDY	3	1	*STD	5	1
—	QPJOBLOG	DESPATCH		RDY	2	1	*STD	5	1
—	QPJOBLOG	QSYS		RDY	1	1	*STD	5	1
—	QPJOBLOG	JOHNCOTTER		RDY	2	1	*STD	5	1
—	STATEMENTS	PATRICIA	SHPU11	RDY	552	1	STATEMENTS	5	+

F3-EXIT F7-SELECT/SUBSET F11-VIEW2 F12-CANCEL F13-SAVE ALL

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Fig 2. The contents of the output queue are displayed for SPLF(*SELECT).

Option '9' also displays the attributes, but this is the normal system display of a spoolfile's attributes.

After **F17** is taken Q400 returns to the 'All Output Queues' display, or if a single output queue is being processed, Q400 proceeds with the save to tape (or save file, or diskette). If you are processing multiple queues **F17-Confirm** will flash if at least one spoolfile has been selected for saving. Taking **F17-Confirm** will start the save to tape (or save file, or diskette)..

After **F3** is taken Q400 returns to the 'All Output Queues' display, or if a single output queue is being processed, the SAVSPLF command ends. **F3** can be taken at any stage, and no update or copying of the output queue takes place.

Using the Selection Parameters on the Command and within the Display Screens

The spoolfiles displayed depend on the selection criteria specified on the SAVSPLF command. If no selection was used, i.e. the USER, AGE, and other selection parameters were blank, then all the spoolfiles in the output queue are displayed. If a subset is being displayed, then the '**F7-SUBSET/SELECT**' banner will be highlighted and in reverse image, at the bottom of the screen.

If you wish to change the spoolfile selection criteria, take **F7**. A window will appear requesting changes to the selection parameters (see Fig 3). Type your changes and press enter. If you have



selected more than one output queue, you will be requested to apply the same selection parameters to following queues. Enter 'Y' or 'N'.

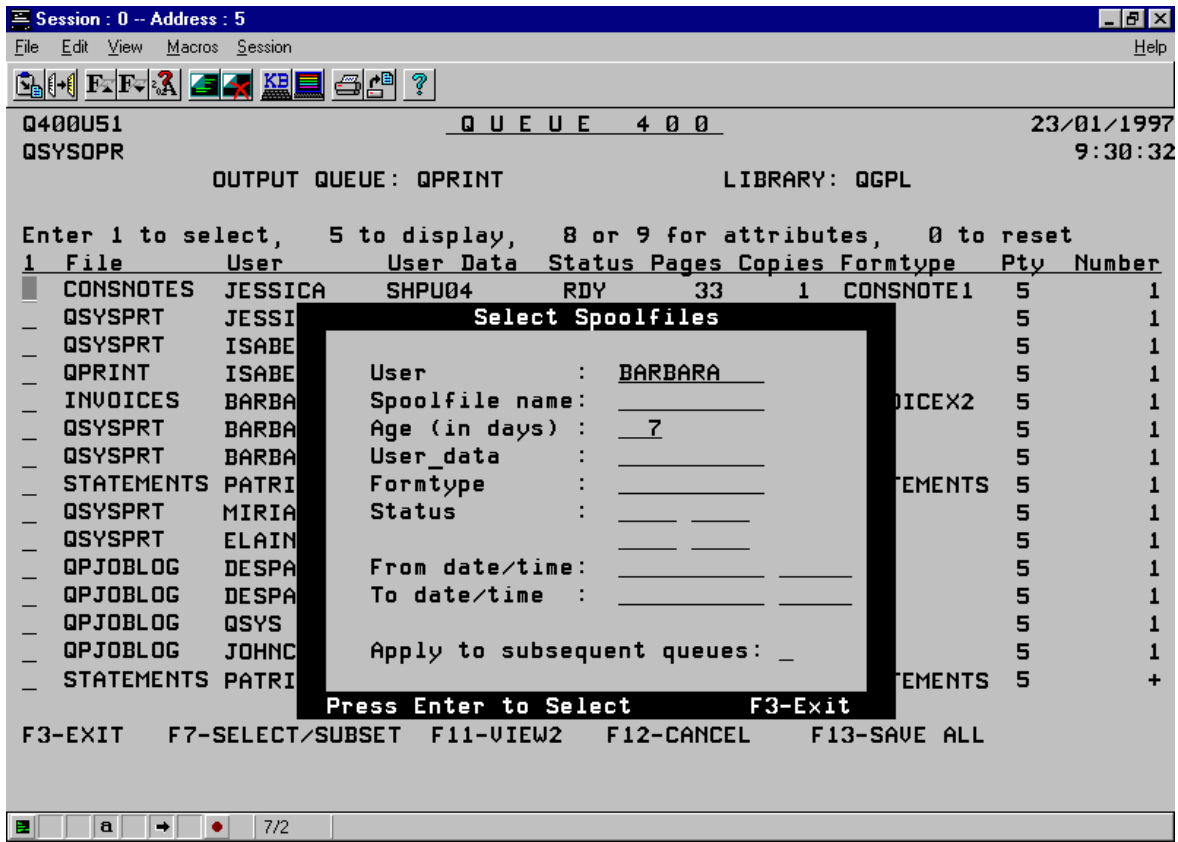


Fig 3. Changing the selection criteria.

Examples

SAVSPLF OUTQ(PRT01) or SAVSPLF PRT01

This command will result in a list of spoolfiles on the output queue being displayed. You can choose from the list and save or request to display any or all of the individual spoolfiles. The defaults of device **TAP01**, and '**Clear After Save**' will be in effect, as well as other defaults on the SAVSPLF command.

SAVSPLF OUTQ(*ALL) SPLF(*ALL) AGE(4) DEV(TAP01)

This command will result in all the spoolfiles on your machine over 3 days old, being saved. They will also be deleted. This command could be run in batch or interactive mode.

SAVSPLF OUTQ(PRT03) SPLF(*ALL) USER(JESSICA) DEV(TAP01) FORMAT(*FICHE)

This example creates a microfiche format tape, containing all the reports belonging to the user JESSICA in output queue PRT03.

Changing the defaults on the SAVSPLF command.

The default values of the command parameters on the SAVSPLF command can be changed using the **CHGCMDDFT** command. Remember to change commands in both QGPL and Q400, as all



the commands in library Q400 are duplicated into QGPL during installation. CHGCMDDFT CMD(Q400/SAVSPLF) NEWDFT('clear(*no)'). This will change the default from *YES to *NO on the CLEAR parameter.

Creating a Microfiche Tape

Queue400 can format a tape to be forwarded to your microfilm processors. Use the SAVSPLF command, to create the tape. Specify **FORMAT(*FICHE)** and leave the blocksize at the default - 12,000.

Please remember you cannot restore spoolfiles from a ***FICHE** format tape, easily, in the same way as from a ***SAVRST** (save/restore) tape.

Please also remember that the **CLEAR** option is still in effect when creating a ***FICHE** tape.

Preparing Spoolfiles for Downloading to a PC

You can prepare spoolfiles for downloading to a PC. Use the SAVSPLF command and specify **FORMAT(*LASER)**.

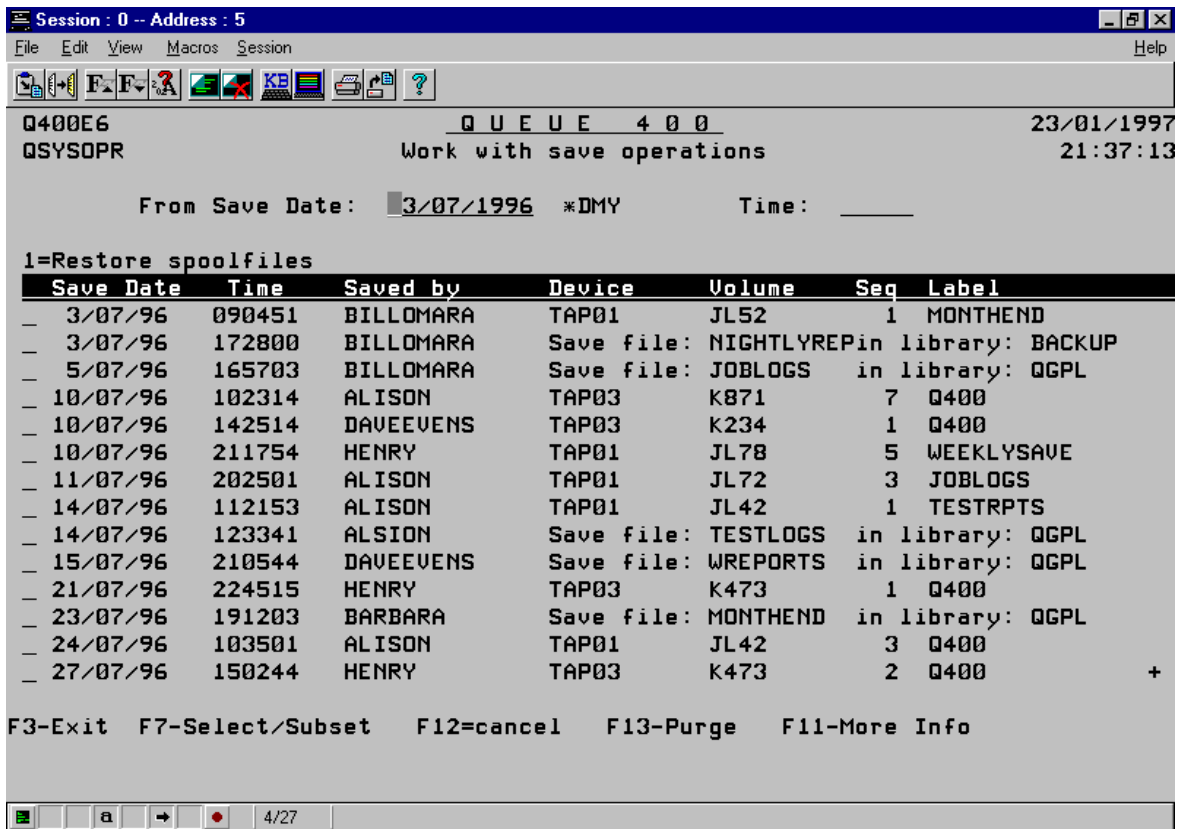
Please remember you cannot restore spoolfiles from the ***LASER** format, easily, in the same way as from the ***SAVRST** (save/restore) format.

Please also remember that the **CLEAR** option is still in effect when creating a ***FICHE** tape.



Chapter 4.**Restoring Spoolfiles - the WRKSAVOPS (Work with save operations) Command****Description**

Using the WRKSAVOPS (Work with Save Operations) command details of spoolfile save operations are displayed. Details include save date/time, volume, user, device, sequence, label or save file name and library. Selection criteria include save date/time, volume, user, device and more. A restore option exists for each save operation displayed.



Session : 0 -- Address : 5

File Edit View Macros Session Help

Q400E6 QUEUE 400 23/01/1997
 QSYSOPR Work with save operations 21:37:13

From Save Date: 3/07/1996 *DMY Time: _____

1=Restore spoolfiles

Save Date	Time	Saved by	Device	Volume	Seq	Label
3/07/96	090451	BILLOMARA	TAP01	JL52	1	MONTHEND
3/07/96	172800	BILLOMARA	Save file: NIGHTLYREP in library: BACKUP			
5/07/96	165703	BILLOMARA	Save file: JOBL0GS in library: QGPL			
10/07/96	102314	ALISON	TAP03	K871	7	Q400
10/07/96	142514	DAVEEVENS	TAP03	K234	1	Q400
10/07/96	211754	HENRY	TAP01	JL78	5	WEEKLYSAVE
11/07/96	202501	ALISON	TAP01	JL72	3	JOBL0GS
14/07/96	112153	ALISON	TAP01	JL42	1	TESTRPTS
14/07/96	123341	ALISON	Save file: TESTLOGS in library: QGPL			
15/07/96	210544	DAVEEVENS	Save file: WREPORTS in library: QGPL			
21/07/96	224515	HENRY	TAP03	K473	1	Q400
23/07/96	191203	BARBARA	Save file: MONTHEND in library: QGPL			
24/07/96	103501	ALISON	TAP01	JL42	3	Q400
27/07/96	150244	HENRY	TAP03	K473	2	Q400

F3-Exit F7-Select/Subset F12=cancel F13-Purge F11-More Info

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Fig:4. The spoolfile save operation information is displayed. Use option 1 to restore.

Taking option 1 against any of the save operations listed will start the restore process. If the saved spoolfiles are in a save file, a list of saved spoolfiles is displayed if the save file exists on the system. (If the save file does not exist an error message is displayed).

If the saved spoolfiles are on a tape, you are prompted for the *restore device*, the *end option* and *whether to send a "load tape" message*. After pressing ENTER the list of saved spoolfile is displayed.



Selecting from a list of saved spoolfiles

Enter '1' in the selection field to pick a spoolfile for printing. The line on the screen will be highlighted, and 'F17-UPDATE' will flash. If you have made an error, enter '0' to deselect the line. You may enter '1' against other lines, or take other select options. No update (restore and reprint) will take place until F17 is taken.

Enter '5' in the selection field to display the contents of a spoolfile. (If the data is not suitable for display, an error message will appear).

Enter '8' to display the attributes of the spoolfile.

If you decide to restore/reprint all spoolfiles on the tape or diskette take F13.

After F17 or F13 is taken you may take further options.

Session : 0 -- Address : 5

File Edit View Macros Session Help

Q400U71 Q U E U E 4 0 0 PRT01 *LIBL 23/01/1997 10:15:02

QSYSOPR

Work With Saved Spoolfiles

Enter 1 to select, 5 to display, 8 for attributes, 0 to reset

Opt	File	User	Job	Number	Pages	Formtype	Job Date	Time
1	CONSNOTES	JESSICA	DAILY1	002612	33	CONSNOTE1	04/07/96	09:20:09
—	QSYSPRT	JESSICA	DAILY1	002612	741	*STD	04/07/96	09:20:12
—	QSYSPRT	ISABEL	DAILY2	002611	21	*STD	04/07/96	09:25:46
—	QPRINT	ISABEL	DAILY2	002611	7	*STD	04/07/96	09:25:54
—	INVOICES	BARBARA	DAILY2	002609	71	INVOICEX2	04/07/96	09:27:49
—	QSYSPRT	BARBARA	DAILY2	002609	52	*STD	04/07/96	09:28:14
—	QSYSPRT	BARBARA	DAILY2	002609	147	*STD	04/07/96	09:28:27
—	STATEMENTS	PATRICIA	MONTHEND	002607	541	STATEMENTS	04/07/96	11:31:16
—	QSYSPRT	MIRIAM	MONTHEND	002607	8471	*STD	04/07/96	11:37:41
—	QSYSPRT	ELAINE	MONTHEND	002607	2048	*STD	04/07/96	11:38:47
—	QPJOBLOG	DESPATCH	ORDERUPD	002663	3	*STD	04/07/96	15:43:07
—	QPJOBLOG	DESPATCH	ORDERUPD	002663	2	*STD	04/07/96	15:43:52
—	QPJOBLOG	QSYS	SCPF	002704	1	*STD	04/07/96	03:02:15
—	QPJOBLOG	JOHNCOTTER	LINEUPDATE	002707	2	*STD	04/07/96	17:20:31

F3-EXIT F7-SELECT/SUBSET F11-VIEW2 F12-CANCEL F13-REPRINT ALL

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Fig 5. Specifying *SELECT when restoring spoolfiles.

After F3 is taken, the restore process ends. All restored data is deleted (except the spoolfiles selected for restore). F3 can be taken at any stage.

Specifying the output queue for the restored spoolfiles



On the '**Work With Saved Spoolfiles**' screen the output queue and library are located at the top right-hand side of the display. The default (***JOB**) on the command is translated to an actual output queue name on the display. You can change the output queue name to another, or to ***SAVQ**, which requests Queue400 to restore into the same output queue that the spoolfile was saved from.

Using the Selection Parameters within the list of spoolfiles

If you wish to change the spoolfile selection criteria, take **F7**. A window will appear requesting selection parameters (see 6). Type your selections and press **ENTER**.

If no selection is requested, i.e. the **USER**, **OUTQ**, and other selection parameters were blank then all the spoolfiles on the tape are displayed. If a subset is being displayed, then the '**F7-SUBSET/SELECT**' banner will be highlighted and in reverse image, at the bottom of the screen. If you wish to change the spoolfile selection criteria, take **F7** again. The selection window will appear requesting changes to the selection. Type your changes and press **ENTER**.

Session : 0 -- Address : 5

File Edit View Macros Session Help

Q400U71 Q U E U E 4 0 0 *SAVQ *LIBL 29/01/1997
 QSYSOPR 11:33:37

Work With Saved Spoolfiles

Enter 1 to select, 5 to display, 8 for attributes, 0 to reset

Opt	File	User	Job	Number	Pages	Formtype	Job Date	Time
—	CONSNOTES	JESSICA	DAILY1	002612	33	CONSNOTE1	04/07/96	09:20:09
—	QSYSPRT	JESS					04/07/96	09:20:12
—	QSYSPRT	ISAB					04/07/96	09:25:46
—	QPRINT	ISAB					04/07/96	09:25:54
—	INVOICES	BARB				X2	04/07/96	09:27:49
—	QSYSPRT	BARB					04/07/96	09:28:14
—	QSYSPRT	BARB					04/07/96	09:28:27
—	STATEMENTS	PATR				NTS	04/07/96	11:31:16
—	QSYSPRT	MIRI					04/07/96	11:37:41
—	QSYSPRT	ELAI					04/07/96	11:38:47
—	QPJOBLOG	DESP					04/07/96	15:43:07
—	QPJOBLOG	DESP					04/07/96	15:43:52
—	QPJOBLOG	QSYS					04/07/96	03:02:15
—	QPJOBLOG	JOHNCOTTER	LINEUPDATE	002707	2	*STD	04/07/96	17:20:31

SELECT Spoolfiles

User : BARBARA

Job Date :

Job name :

Job no :

Output queue :

Spoolfile name :

User_data :

Formtype :

ENTER-Select F3-Exit F12-Cancel

F3-EXIT F7-SELECT/SUBSET F11-VIEW2 F12-CANCEL F13-REPRINT ALL

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Fig 6. Specifying a subset by changing the selection parameters.



Chapter 5.

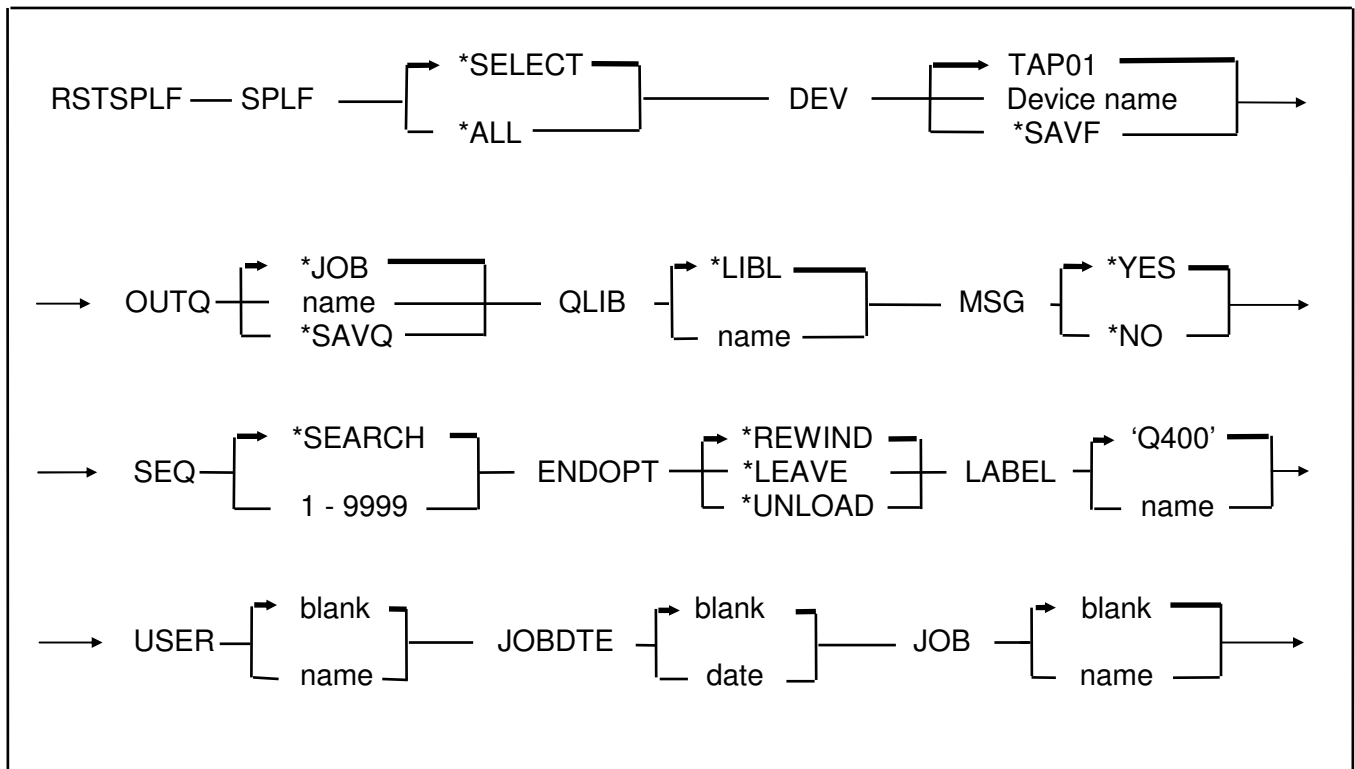
Restoring Spoolfiles - RSTSPLF (Restore Spoolfile) Command

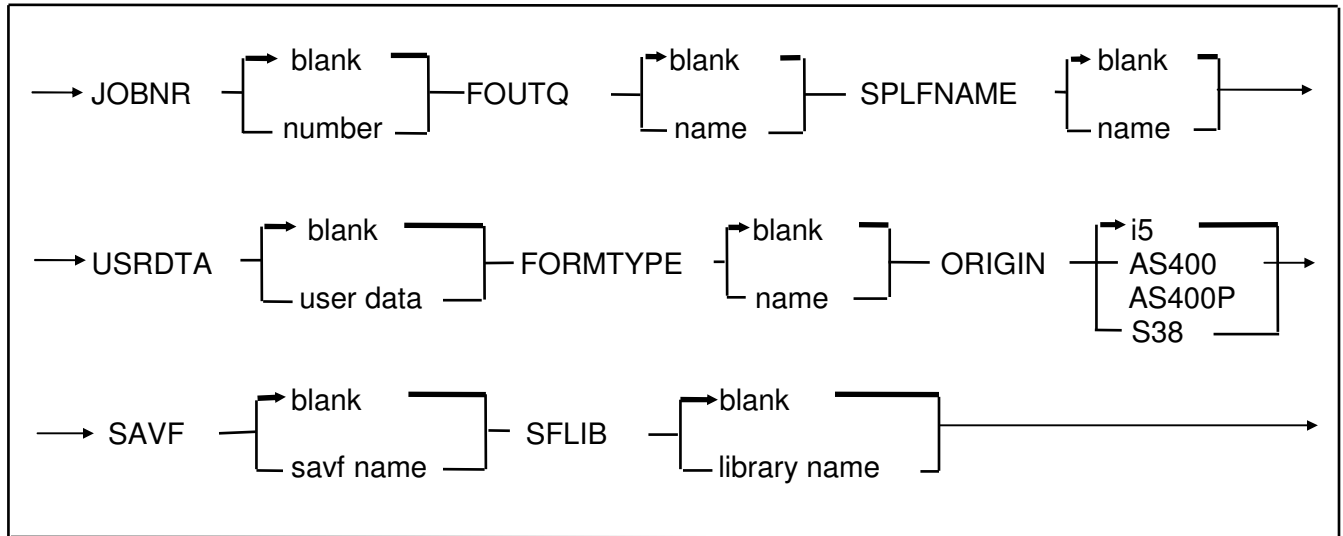
Description

The Restore Spoolfile Command (RSTSPLF) retrieves saved spoolfiles from tape (or diskette or save file). All the spoolfiles can be restored, or individual spoolfiles can be restored from a displayed list of spoolfiles on the tape. The spoolfile contents can be displayed (*SCS type only) as well as the attributes.

Having specified *SELECT you may, while browsing a list, request that the entire list be processed. A subset can be specified on the command, or within the subsequent displays. The subset selection criteria include **user, job, outq, spoolfile name, user data, and formtype**.

The RSTSPLF command can be executed on its own, or within a program, in an interactive or batch environment. The parameter value *SELECT is not allowed in batch mode.





Parameters

SPLF Parameter

This parameter specifies which spoolfiles on the tape are to be restored. You may specify that all entries are to be restored, or request a list from which to choose.

***SELECT:** A list of entries will be displayed, from which to pick individual spoolfiles. Not allowed in batch mode.

***ALL:** All entries on the tape (or diskette or save file) are to be restored.

DEV Parameter

Specify the name of the diskette or tape drive or *SAVF.

device-name: The name of the device i.e. DKT01 or TAP01. The default value is TAP01.

***SAVF:** Indicates that you wish to save to a save file. Q400 will prompt you for further details, see parameters SAVF and SFLIB.

OUTQ Parameter

Specify where the restored spoolfiles are to go. This parameter can also be changed within the selection screens.

***JOB:** Spoolfiles are restored to the default OUTQ for the current job

***SAV:** Spoolfiles are restored automatically to the OUTQ they were saved from.

Output-queue: Specify the output queue into which the spoolfiles will be restored.

LIB Parameter

Specify the library in which the **OUTQ** resides, or, leave as ***LIBL** in which case the library is found from your library list.



MSG Parameter

Specify whether a break message is sent to message queue QSYSOPR or not. The default is *YES i.e. a break message tells the operator to load the tape or diskette. If *NO the program assumes the correct tape or diskette is loaded, and no intervention is necessary.

***YES:** A break message is sent to message queue, QSYSOPR, to load the relevant volume for the restore.

***NO** No message is sent during the save operation. The program assumes the correct tape or diskette is loaded, and restores from the device.

SEQ Parameter

Specify a sequence number on a multiple-save tape. One tape could be used for a week's logs, for example. If Wednesday's logs were the third save to the tape then SEQ(5) would find them. Likewise SEQ(9) would locate Friday's logs. (Multiple saves can be done only if the tape is not initialised. When a tape is initialised the sequence number of the save is always 1. In the above example the tape would be initialised for Monday's save only). Q400 uses 2 sequences for each save, the first for the index and the second for the spoolfile data and attributes.

***SEARCH** : The first spoolfile save on the tape is located.

Sequence-number:

A save with a matching sequence number is sought.

ENDOPT Parameter

Relevant to tape processing only. Specify what should happen to the tape after the restore process.

Permissible values are ***REWIND**, ***LEAVE** or ***UNLOAD**.

LABEL Parameter

Specifies a name for identifying a particular save of spoolfiles. For example Tuesday's invoices could be labelled 'TUE-INV-1994-9-30'. On the RSTSPLF command this label is used to distinguish multiple saves on one tape. (The sequence (**SEQ**) parameter on the RSTSPLF command can also be used for this purpose). The label value on the RSTSPLF command must be the same as that on the save.

Q400: The default on both the SAVSPLF and RSTSPLF command is 'Q400'

Identifier: Use up to 17 characters.

USER Parameter

Only restore or display those spoolfiles belonging to the named user , or leave blank for all users to be processed.

JOBDATE Parameter

Only restore or display spoolfiles from jobs with the same **job date** as specified here, or leave blank and the job date of the spoolfile will not be checked.



JOB Parameter

Only restore or display spoolfiles from jobs with the same **job name** as specified here, or leave blank and the job name of the spoolfile will not be checked.

JOBNR Parameter

Only restore or display spoolfiles from jobs with the same **job number** as specified here, or leave blank and the job number of the spoolfile will not be checked.

FOUTQ Parameter

Only restore or display spoolfiles that were saved from the **outq** specified here, or leave blank and the original outq of the spoolfile will not be checked.

SPLFNAME Parameter

Only restore or display spoolfiles with the same **spoolfile name** as specified here, or leave blank and the spoolfile name will not be checked.

USRDTA Parameter

Only restore or display spoolfiles with the same **user data** as specified here, or leave blank and the user data of the spoolfile will not be checked.

FORMTYPE Parameter

Only restore or display spoolfiles with the same **formtype** as specified here, or leave blank and the formtype of the spoolfile will not be checked.

ORIGIN Parameter

Specifies the system the software was saved on. Queue400 needs to know if the spoolfiles were saved on a System/38, or on the AS400. In addition Queue400 can process two AS400 formats.

- i5:** The default - restore from a tape or SAVF created with version 5 or later of Queue400. This format supports full attribute restore (user, date, job name and number)
- AS400:** For spoolfiles saved with version 2 to version 3 of Queue400. These spoolfiles were stored in a different fashion to tape, and need to be retrieved differently.
- AS400P:** Specify this for spoolfiles saved with earlier versions of Queue400. Earlier versions means those prior to version 2 of Queue400.
- S38:** For spoolfiles saved on the System/38. These saves have different labels and some conversion takes place within Queue400 before the restore.

SAVF Parameter

The prompt for this parameter appears only if DEV is specified as *SAVF. This applies to the next parameter SFLIB. The SAVF parameter specifies the name of a save file. The program assumes it is empty.

name: The name of the save file.

SFLIB Parameter

The prompt for this parameter appears only if DEV is specified as *SAVF. This applies to the previous parameter SAVF. The SFLIB parameter specifies the name of a library, containing the save file.

name: The name of the library.

Selecting from a list of saved spoolfiles

If you specify *SELECT for the parameter SPLF, the spoolfiles on the tape (or diskette or save file) are displayed. No spoolfiles have been restored at this stage.

Enter '1' in the selection field to pick a spoolfile for printing. The line on the screen will be highlighted, and 'F17-UPDATE' will flash. If you have made an error, enter '0' to deselect the line. You may enter '1' against other lines, or take other select options. No update (restore and reprint) will take place until **F17** is taken.

Enter '5' in the selection field to display the contents of a spoolfile. (If the data is not suitable for display, an error message will appear).

Enter '8' to display the attributes of the spoolfile.

Session : 0 -- Address : 5

File Edit View Macros Session Help

Q400U71 Q U E U E 4 0 0 PRT01 *LIBL 23/01/1997 10:15:02

QSYSOPR

Work With Saved Spoolfiles

Enter 1 to select, 5 to display, 8 for attributes, 0 to reset

Opt	File	User	Job	Number	Pages	Formtype	Job Date	Time
1	CONSNOTES	JESSICA	DAILY1	002612	33	CONSNOTE1	04/07/96	09:20:09
—	QSYSPRT	JESSICA	DAILY1	002612	741	*STD	04/07/96	09:20:12
—	QSYSPRT	ISABEL	DAILY2	002611	21	*STD	04/07/96	09:25:46
—	QPRINT	ISABEL	DAILY2	002611	7	*STD	04/07/96	09:25:54
—	INVOICES	BARBARA	DAILY2	002609	71	INVOICEX2	04/07/96	09:27:49
—	QSYSPRT	BARBARA	DAILY2	002609	52	*STD	04/07/96	09:28:14
—	QSYSPRT	BARBARA	DAILY2	002609	147	*STD	04/07/96	09:28:27
—	STATEMENTS	PATRICIA	MONTHEND	002607	541	STATEMENTS	04/07/96	11:31:16
—	QSYSPRT	MIRIAM	MONTHEND	002607	8471	*STD	04/07/96	11:37:41
—	QSYSPRT	ELAINE	MONTHEND	002607	2048	*STD	04/07/96	11:38:47
—	QPJOBLOG	DESPATCH	ORDERUPD	002663	3	*STD	04/07/96	15:43:07
—	QPJOBLOG	DESPATCH	ORDERUPD	002663	2	*STD	04/07/96	15:43:52
—	QPJOBLOG	QSYS	SCPF	002704	1	*STD	04/07/96	03:02:15
—	QPJOBLOG	JOHNCOTTER	LINEUPDATE	002707	2	*STD	04/07/96	17:20:31

F3-EXIT F7-SELECT/SUBSET F11-VIEW2 F12-CANCEL F13-REPRINT ALL

7/2

Fig 7. Specifying *SELECT when restoring spoolfiles.



If you decide to restore/reprint all spoolfiles on the tape or diskette take **F13**.
After **F17** or **F13** is taken you may take further options.

After **F3** is taken, the RSTSPLF command ends. All restored data is deleted (except the spoolfiles selected for restore). **F3** can be taken at any stage.

Specifying the output queue for the restored spoolfiles

It is possible to tell Queue400 where to restore the spoolfiles on the RSTSPLF command and within the display screen. On the '**Work With Saved Spoolfiles**' screen the output queue and library are located at the top right-hand side of the display. The default (***JOB**) on the command is translated to an actual output queue name on the display. You can change the output queue name to another, or to ***SAVQ**, which requests Queue400 to restore into the same output queue that the spoolfile was saved from.

Using the Selection Parameters on the Command and within the Display Screens

The spoolfiles displayed depend on the selection criteria specified on the RSTSPLF command. If no selection was used, i.e. the USER, OUTQ, and other selection parameters were blank then all the spoolfiles on the tape are displayed.

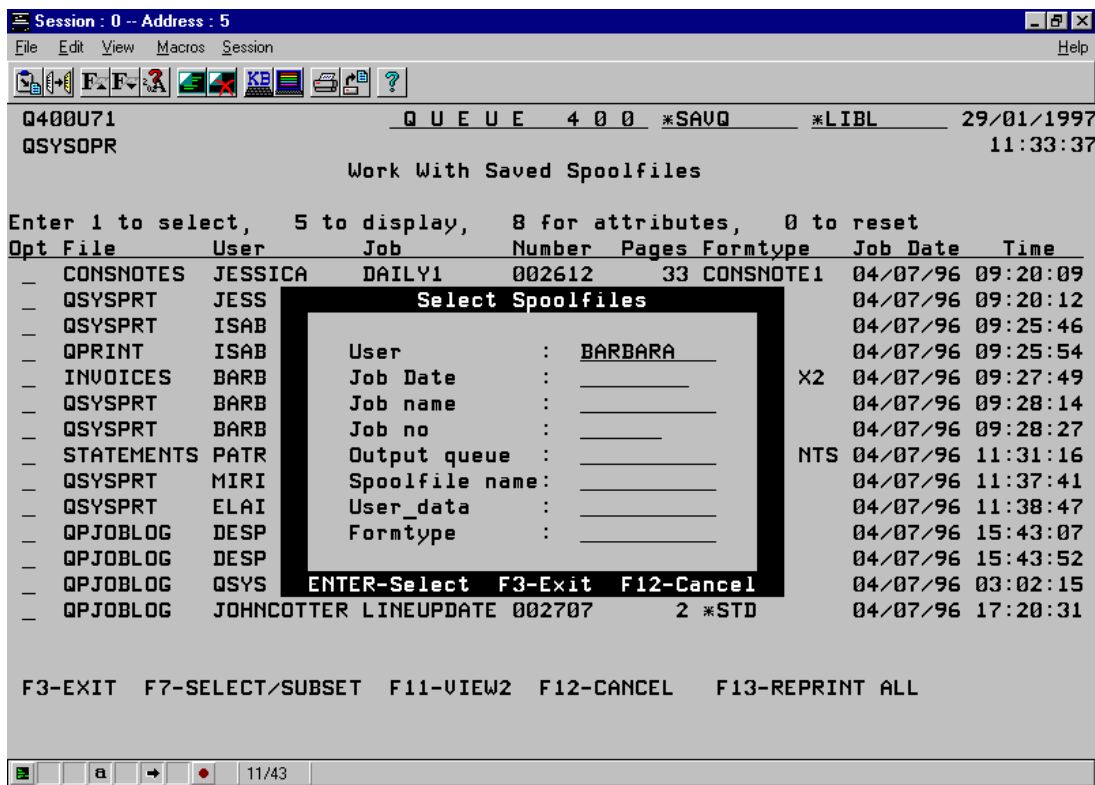


Fig 8. Specifying a subset by changing the selection parameters. In this example on the spoolfiles belonging to user BARBARA are would be displayed after pressing ENTER.

If a subset is being displayed, then the '**F7-SUBSET/SELECT**' banner will be highlighted and in reverse image, at the bottom of the screen. If you wish to change the spoolfile selection criteria,



take **F 7**. A window will appear requesting changes to the selection parameters (see Fig 9). Type your changes and press **ENTER**.

Examples:

RSTSPLF SPLF(*SELECT) DEV(TAP01)

This command will result in a list of the spoolfiles on TAP01 being presented. The user may choose from the list and restore, display and/or reprint individual spoolfiles.

RSTSPLF SPLF(*ALL) DEV(TAP01) USER(JESSICA) JOBDTE(080994)

This command will restore all the spoolfiles on the tape loaded on TAP01, for the user JESSICA with a job date of 08/09/94. This command could be run in batch or interactively.

RSTSPLF SPLF(*ALL) DEV(TAP03) OUTQ(*SAVQ)

This command will restore all the spoolfiles on the tape loaded on TAP03, and each spoolfile will be restored in to the output queue it was saved from.



If you enter a specific **user**, only his or her spoolfiles will be listed. Likewise, enter a **spoolfile name**, to focus on a type of spoolfile. If you enter a particular **volume ID**, the contents of that volume can be displayed. A **purge** facility exists to clear down the log. Entries can be deleted by **date**, and/or **volume id**.

The information displayed by the DSPSAVLOG command is spread over two screens. You can use **F11** to toggle back and forth between the two displays. The first screen shows when the spoolfiles were created, the job details, no of pages and formtype. The second screen show save information like device and volume ID, and save date and time. The original output queue is shown as well. So if you have saved a particular spoolfile to tape, and you wish to restore it, you can use DSPSAVLOG to locate the volume. Enter the approximate date an time the spoolfile was created and the user, for example. Locate the spoolfile on the first display, then use **F11** to toggle to the second screen. You can then see which volume to load for the RSTSPLF command.

File	Nbr	Jobnbr	Outq	Dev/Savf	Volume	Seq	Save Date	Time
CONSNOTES	0005	002613	PRT01	TAP03	K871	7	10/07/96	102314
QSYSPRT	0001	002612	PRT01	TAP03	K871	7	10/07/96	102314
QSYSPRT	0001	002611	PRT01	TAP03	K871	7	10/07/96	102314
QPRINT	0001	002656	PRT03	TAP03	K871	7	10/07/96	102314
INVOICES	0001	002610	PRT03	TAP03	K871	7	10/07/96	102314
QSYSPRT	0001	002609	PTR01	TAP03	K871	7	10/07/96	102314
QSYSPRT	0001	002608	PRT02	TAP03	K871	7	10/07/96	102314
STATEMENTS	0001	002607	PRT01	QGPL/WREPORTS			15/07/96	210544
QSYSPRT	0001	002605	PRT02	QGPL/WREPORTS			15/07/96	210544
QSYSPRT	0001	002603	PRT02	QGPL/WREPORTS			15/07/96	210544
QPJOBLOG	0001	002663	JOBLOGS	TAP01	JL78	5	10/07/96	211754
QPJOBLOG	0001	002664	JOBLOGS	TAP01	JL78	5	10/07/96	211754
QPJOBLOG	0001	002704	JOBLOGS	TAP01	JL78	5	10/07/96	211754
QPJOBLOG	0001	002707	JOBLOGS	TAP01	JL78	5	10/07/96	211 +

Fig 10. The second view of the log shows save volume, device and save date/time.

Use **F10** to display save operation information. This has the same effect as running the **WRKSAVOPS** command. The purge history function is accessed with **F13**.



Purging the history log.

The save history log can be selectively purged. **From job date** and **to job date** as well as **volume ID** can be specified in any combination. If the **from job date** is zero and the **to job date** contains a valid date, then the log is cleared from the earliest entries up to those for the **to job date**. Likewise if the **to job date** is zero and a valid **from job date** has been entered, then entries are deleted from the **from job date** up to the end of file. The volume ID if entered restricts purging to log entries with a matching volume ID. You will be asked to confirm your choice of purge parameters (**F17**) before any update takes place. The file is not reorganised after the purge.

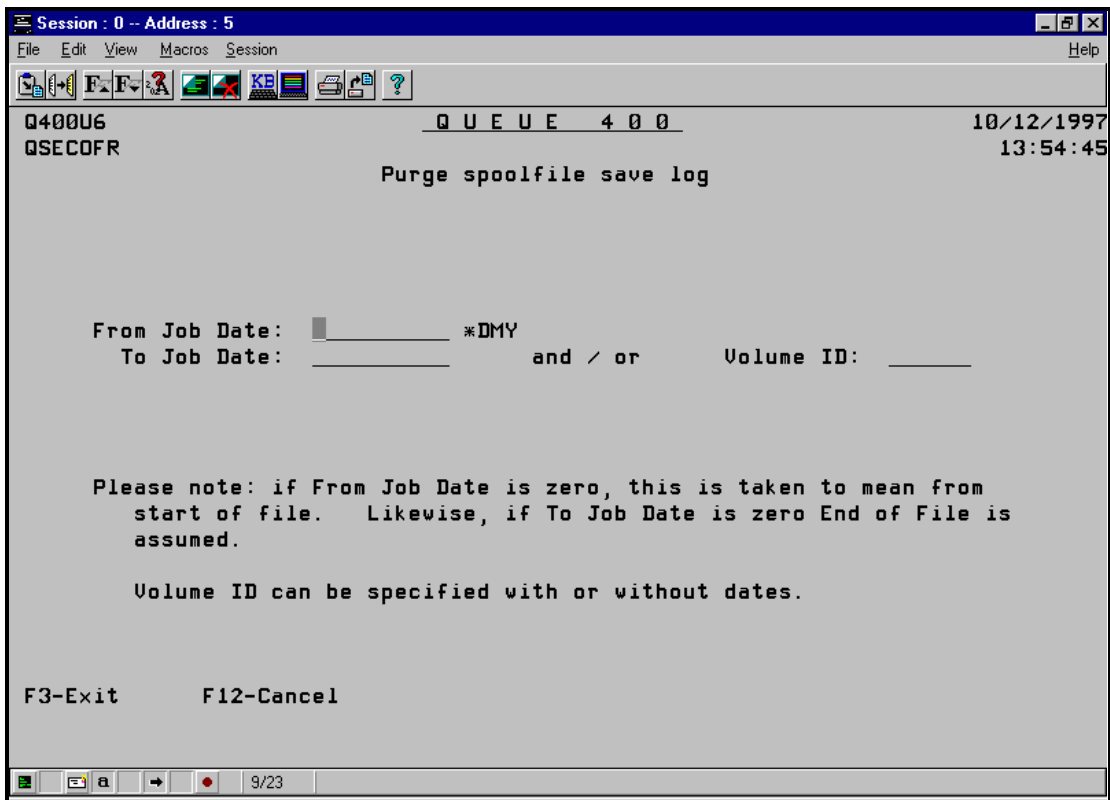


Fig 11. Entering the purge parameters, on one of the DSPSAVLOG screens.



Chapter 7

CLRSPLF (Clear Spoolfile) Command

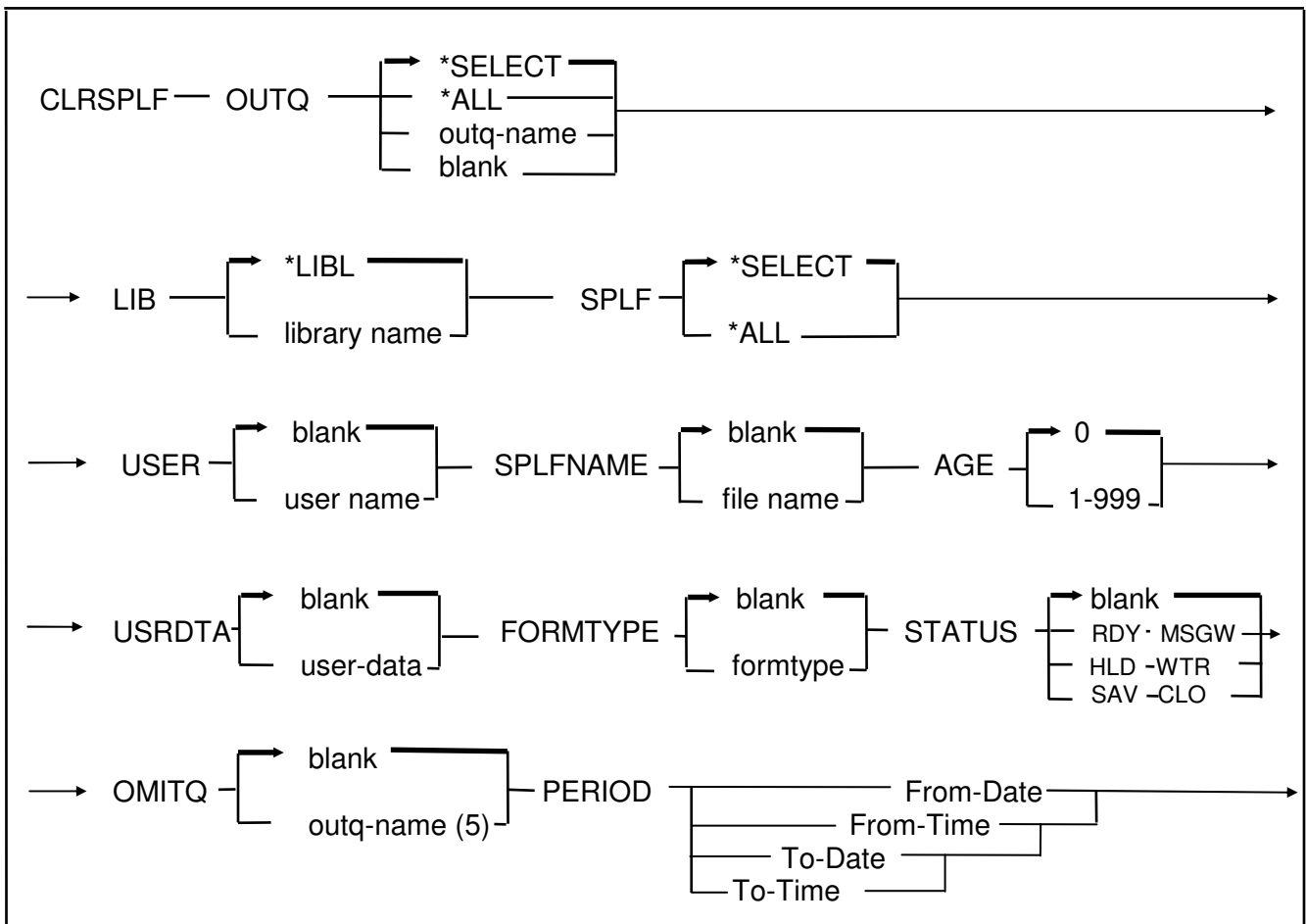
Description

The Clear Spoolfile Command (CLRSPLF) deletes spoolfiles from the AS400.

You may specify that all output queues are to be processed, or you may select from a list. Likewise you may specify that all spoolfiles in the output queue are to be processed, or you may choose from a list of entries.

You may further restrict the spoolfiles you wish to delete by specifying a **user** or a **spoolfile name**, or the **age** of the spoolfile. In addition the spoolfile **status**, **user data** and **formtype** can be used to select files for deletion. Any combination of these parameters is permissible.

Having specified `*SELECT` you can, while browsing a list, request that the entire list be processed



The CLRSPLF command can be executed on its own, or within a program, in an interactive or batch environment. The parameter value *SELECT is not allowed in batch mode.

Parameters

OUTQ Parameter

Specifies the output queue from which the spoolfiles are to be cleared.

***SELECT:** (or blank) will display a list of output queues, from which you may pick for processing. Not allowed in batch mode.

***ALL:** The program will process all output queues on the system.

Output-queue: The program will process the named output queue.

LIB Parameter

Specify the library in which the **OUTQ** resides, or, leave as ***LIBL** in which case the library is found from your library list.

SPLF Parameter

This parameter specifies which entries in the output queue are to be deleted. You may specify that all entries are to be deleted or request a list from which to choose.

***SELECT:** A list of entries will be displayed, from which to pick individual spoolfiles. Not allowed in batch mode.

***ALL** : All entries in the output queue are to be cleared.

USER Parameter

Restrict processing to the named user , or leave blank for all users to be processed.

SPLFNAME Parameter

Restrict processing to the spoolfile named, or leave blank for all spoolfiles.

AGE Parameter

Specify the age of the spoolfile in days. Only the spoolfile whose ages are equal to or greater than the number of days, are displayed or cleared.

0: Any spoolfile is processed.

1 - 999: Processing is restricted to those spoolfiles as old as, or older than the number of days specified.

USRDTA Parameter

Restrict processing to the user data specified, or leave blank for all spoolfiles to be processed.



FORMTYPE Parameter

Restrict processing to the formtype specified, or leave blank for all spoolfiles to be processed.

STATUS Parameter

Restrict processing to the status or stata named, or leave blank for all spoolfiles to be processed. Several different stata can be specified.

RDY, HLD, SAV, MSGW, WTR, and CLO can be specified in any combination.

PERIOD Parameter

The PERIOD parameter enables you to select spoolfiles by their date and time. You can input a range of dates and times. The dates must be input in system date format (either DMY, MDY, YMD or JUL, see system value QDATFMT). The time can include seconds, or just hours and minutes. If you input a *from date* and *from time* Queue400 will check that the date and time the spoolfile was opened was later than that specified. If you input a *to date* and *to time* Queue400 will check that the date and time the spoolfile was opened was earlier than that specified. If you specify a *from date* and *from time* but no *to date* and *to time* Queue400 will select all the spoolfiles with a later date and time.

Similarly if you specify a *to date* and *to time* but no *from date* and *from time* Queue400 will select all the spoolfiles created before the date and time specified. If either the *from date* or *to date* are specified without times then the time is not compared, and just the date is used for comparison.

If the *from date* and *to date* are blanks but either the *from time* and/or *to time* are specified then the times alone are used for selecting spoolfiles. For example you can use this feature to select all the spoolfile created between 3.00 and 4.00 a.m. for all dates.

OMITQ Parameter

The OMITQ parameter specifies the output queue(s) to be omitted from the save process. Up to 5 output queues can be specified. You can omit all the output queues in a library by using *ALL as the output queue name and specifying the library, e.g. QGPL/*ALL .

blank: will omit all queues in the specified library. This is the same as specifying *ALL.

***ALL** : the program will not process all the output queues.

name: The program will not process the output queue named.

The possible values for the libraries are:

blank: All queues in any library that match the value specified in the omit output queue parameter will be omitted. This is the same as specifying *ALL.

***ALL:** All queues in any library that match the value specified in the omit output queue parameter will be omitted.

name: The program will not process the output queue(s) in the named library that match the value specified in the omit output queue parameter.



AUDIT Parameter

Specify whether or not a spoolfile save audit report is to be printed. This report contains a list of spoolfiles saved, the date and time of the save, the operator, the tape volume details or save file, or download details, and also indicates whether the spoolfiles were deleted after the backup or not. Total number of spoolfiles and pages are shown.

***NOPRINT** : A spoolfile save audit report will not print.

***PRINT** : A spoolfile save audit report will print.

LOG Parameter

Specifies what level of message logging will take place during the move process. You can request that a message for EVERY spoolfile is written to the job log, or just one message per output queue processed, or just an overall message for the move spoolfile operation. (*note: This is different from the history file update - see the UPDHST parameter). The default is *OVERALL.

***OVERALL** : Just one message per move operation is displayed.

***OUTQ** : Just one message per output queue processed is written to the job log.

***SPLF** : A message for every spoolfile moved (or not moved) is written to the job log.

***NONE** : No messages are written to the joblog during the spoolfile move operation.



Session : 0 -- Address : 5

File Edit View Macros Session Help

Q400U3 Q U E U E 4 0 0 16/01/1997
 QSYSOPR 13:46:32

ALL OUTPUT QUEUES

Enter 1 to select

Sel	Outq	Library	Files	Selected	Writer	Status
1	ACCOUNTS	QGPL	0	0		RELEASED
—	ACCOUNTS2	QGPL	21	0	ACCOUNTS2	RELEASED
—	INVOICES	QGPL	0	0	INVOICES	RELEASED
—	JOBLOGS	QGPL	921	0	JOBLOGS	RELEASED
—	PROD1	QGPL	0	0		RELEASED
—	PROG1	QGPL	94	0	PROG1	RELEASED
—	PRT01	QGPL	18	0	PRT01	RELEASED
—	QPRINT	QGPL	15	0		RELEASED
—	RECPTN	QGPL	46	0	RECPTN	RELEASED
—	SECURITY	QGPL	0	0	SECURITY	RELEASED
—	SHIP1	QGPL	21	0	SHIP1	RELEASED
—	SHIP2	QGPL	0	0		RELEASED
—	SHIP3	QGPL	0	0	SHIP3	RELEASED
—	SHIP4	QGPL	0	0	SHIP4	RELEASED

F3-EXIT F12-CANCEL

7/2

Fig 12. All output queues are displayed after specifying OUTQ(*SELECT).

Selecting from a list of output queues

If you specify *SELECT for the parameter OUTQ, the program displays a list of output queues. If you enter '1' in the select field, two things can happen, depending on the SPLF parameter.

If you entered *ALL on the SPLF parameter, then the above display does not change. All the spoolfiles in the output queue are deleted. If you specified *SELECT for SPLF parameter, the output queue is displayed.

You may then select the individual spoolfiles or request that all spoolfile be deleted. Several output queues may be processed together or you may process them one at a time. When Q400 is finished processing the output queue(s) you selected, press **F17** to proceed with the deletion of the selected spoolfiles. Take **F3** or **F12** at this stage to exit without deleting any spoolfiles.



Session : 0 -- Address : 5

File Edit View Macros Session Help

Q400U51 Q U E U E 4 0 0 23/01/1997
QSYSOPR 9:30:12

OUTPUT QUEUE: QPRINT LIBRARY: QGPL

Enter 1 to select, 5 to display, 8 or 9 for attributes, 0 to reset

1	File	User	User Data	Status	Pages	Copies	Formtype	Pty	Number
1	CONSNOTES	JESSICA	SHPU04	RDY	33	1	CONSNOTE1	5	1
—	QSYSPRT	JESSICA		RDY	1	1	*STD	5	1
—	QSYSPRT	ISABEL		RDY	21	1	*STD	5	1
—	QPRINT	ISABEL		RDY	7	1	*STD	5	1
—	INVOICES	BARBARA	ORDU51	RDY	71	1	INVOICEX2	5	1
—	QSYSPRT	BARBARA		RDY	52	1	*STD	5	1
—	QSYSPRT	BARBARA		RDY	147	1	*STD	5	1
—	STATEMENTS	PATRICIA	SHPU11	RDY	541	1	STATEMENTS	5	1
—	QSYSPRT	MIRIAM		RDY	8471	1	*STD	5	1
—	QSYSPRT	ELAINE	SHPR75	RDY	2048	1	*STD	5	1
—	QPJOBLOG	DESPATCH		RDY	3	1	*STD	5	1
—	QPJOBLOG	DESPATCH		RDY	2	1	*STD	5	1
—	QPJOBLOG	QSYS		RDY	1	1	*STD	5	1
—	QPJOBLOG	JOHNCOTTER		RDY	2	1	*STD	5	1
—	STATEMENTS	PATRICIA	SHPU11	RDY	552	1	STATEMENTS	5	+

F3-EXIT F7-SELECT/SUBSET F11-VIEW2 F12-CANCEL F13-DELETE ALL

7/2

Fig 12. The contents of the output queue are displayed for SPLF(*SELECT) on the CLRSPLF command.

Selecting from a list of spoolfiles

If you specify *SELECT for the parameter SPLF, the program displays the spoolfile entries in the output queue. The output queue display is either named in the CLRSPLF command, or selected from a list of all output queues.

Enter '1' in the selection field to pick a spoolfile for deletion. The line on the screen will be highlighted, and the 'F17-UPDATE' banner will flash at the bottom of the screen. If you have made an error, enter '0' to deselect the line. You may enter '1' against other lines, or take other select options. No update will take place until F17 is pressed.

If you decide to save the entire output queue, take F13. Again the 'F17-UPDATE' banner will flash. If you change your mind, take F13 again, and the pending update will be cancelled.

Enter '5' in the selection field to display the contents of a spoolfile.

Enter '8' to display the attributes of the spoolfile. This option displays all the attributes on one screen.

Option '9' also displays the attributes, but this is the normal system display of a spoolfile's attributes.



After **F17** is taken Q400 returns to the 'All Output Queues' display, or if a single output queue is being processed, Q400 proceeds with the deletion of the spoolfiles.

After **F3** is taken Q400 returns to the 'All Output Queues' display, or if a single output queue is being processed, the CLRSPLF command ends. **F3** can be taken at any stage, and deletion of the files in the output queues takes place. **F17-Confirm** will flash on the 'All Output Queues' display if at least one spoolfile has been selected for deletion from any of the output queues. Once **F17** is pressed the deletion process will begin.

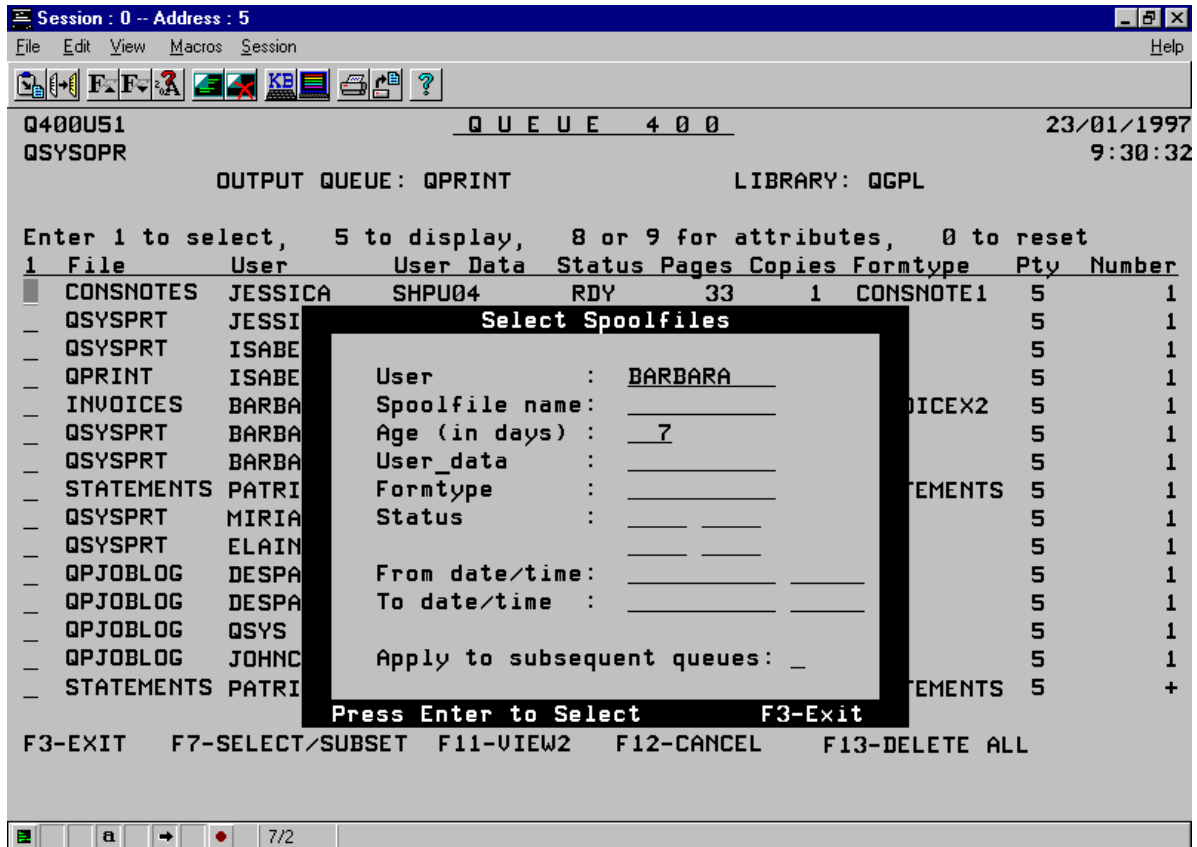


Fig 13. Changing the selection criteria

Using the Selection Parameters on the Command and within the Display Screens

The spoolfiles displayed depend on the selection criteria specified on the CLRSPLF command. If no selection was used, i.e. the USER, AGE, and other selection parameters were blank, then all the spoolfiles in the output queue are displayed. If a subset is being displayed, then the '**F7-SUBSET/SELECT**' banner will be highlighted and in reverse image, at the bottom of the screen.

If you wish to change the spoolfile selection criteria, take **F7**. A window will appear requesting changes to the selection parameters (see Fig 13). Type your changes and press **Enter**. If you



have selected more than one output queue, you will be requested to apply the same selection parameters to following queues. Enter 'Y' or 'N'.

Examples

CLRSPLF OUTQ(PRT01) or CLRSPLF PRT01

This command will result in a list of spoolfiles on the output queue being displayed. You can choose from the list and select for deletion or request to display any or all of the individual spoolfiles.

CLRSPLF OUTQ(*ALL) SPLF(*ALL) AGE(4)

This command will result in all the spoolfiles on your machine over 3 days old being deleted. This command could be run in batch or interactive mode.

CLRSPLF OUTQ(PRT03) SPLF(*ALL) USER(ISABEL)

This example would result in all the spoolfiles belonging to the user ISABEL in output queue PRT03 being deleted.



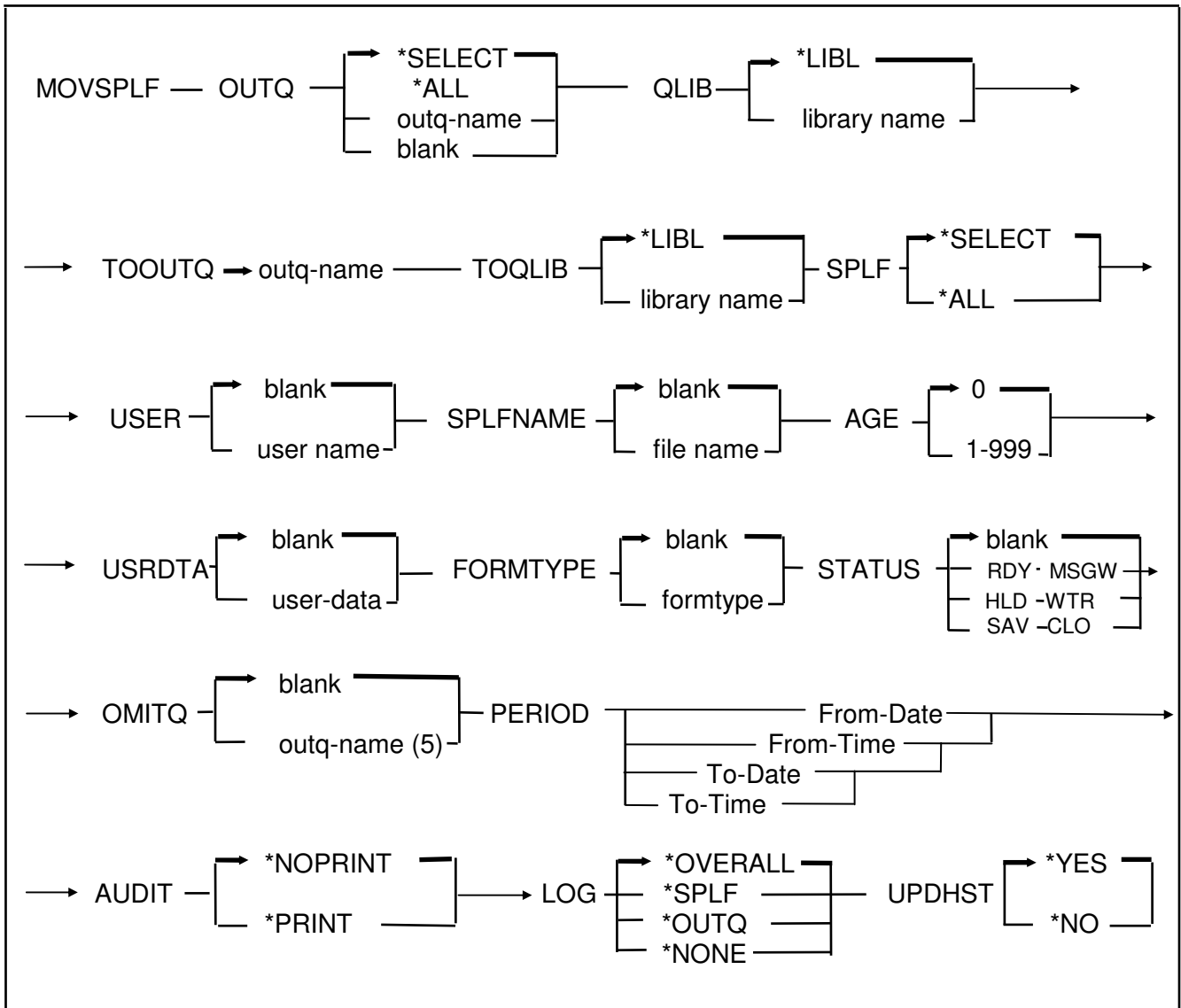
Chapter8

MOV SPLF (Move Spoolfile) Command

Description

The Move Spoolfile Command (MOV SPLF) moves spoolfiles from one or more output queues to another output queue on the AS400.

You may specify that all output queues are to be processed, or you may select from a list. Likewise you may specify that all spoolfiles in the output queue are to be processed, or you may choose from a list of entries.



You may further restrict the spoolfiles you wish to move by specifying a **user** or a **spoolfile name**, or the **age** of the spoolfile. In addition the spoolfile **status**, **user data** and **formtype** can be used to select files for transfer. You can also specify from and to dates in the **period** parameter. Queues to be omitted are specified in the **omitq** parameter. Any combination of these parameters is permissible.

Having specified *SELECT you can, while browsing a list, request that the entire list be processed

The MOVSPLF command can be executed on its own, or within a program, in an interactive or batch environment. The parameter value *SELECT is not allowed in batch mode.

Parameters

OUTQ Parameter

Specifies the output queue(s) from which the spoolfiles are to be moved.

***SELECT:** (or blank) will display a list of output queues, from which you may pick for processing. Not allowed in batch mode.

***ALL:** The program will process all output queues on the system.

Output-queue: The program will process the named output queue.

QLIB Parameter

Specify the library in which the **OUTQ** resides, or, leave as ***LIBL** in which case the library is found from your library list.

TOOUTQ Parameter

Specifies the output queue to which the spoolfiles are to be moved. A specific output queue must be specified.

Output-queue: The program will process the named output queue.

TOQLIB Parameter

Specify the library in which the to **OUTQ** resides, or, leave as ***LIBL** in which case the library is found from your library list.

SPLF Parameter

This parameter specifies which entries in the output queue are to be moved. You may specify that all entries are to be moved or request a list from which to choose.

***SELECT:** A list of entries will be displayed, from which to pick individual spoolfiles. Not allowed in batch mode.

***ALL** : All entries in the output queue are to be moved.

USER Parameter

Restrict processing to the named user, or leave blank for all users to be processed.



SPLFNAME Parameter

Restrict processing to the spoolfile named, or leave blank for all spoolfiles.

AGE Parameter

Specify the age of the spoolfile in days. Only the spoolfiles whose ages are equal to or greater than the number of days, are displayed or moved.

0: Any spoolfile is processed.

1 - 999: Processing is restricted to those spoolfiles as old as, or older than the number of days specified.

USRDTA Parameter

Restrict processing to the user data specified, or leave blank for all spoolfiles to be processed.

FORMTYPE Parameter

Restrict processing to the formtype specified, or leave blank for all spoolfiles to be processed.

STATUS Parameter

Restrict processing to the status or stata named, or leave blank for all spoolfiles to be processed. Several different stata can be specified.

RDY, HLD, SAV, MSGW, WTR, and CLO can be specified in any combination.

PERIOD Parameter

The PERIOD parameter enables you to select spoolfiles by their date and time. You can input a range of dates and times. The dates must be input in system date format (either DMY, MDY, YMD or JUL, see system value QDATFMT). The time can include seconds, or just hours and minutes. If you input a *from date* and *from time* Queue400 will check that the date and time the spoolfile was opened was later than that specified. If you input a *to date* and *to time* Queue400 will check that the date and time the spoolfile was opened was earlier than that specified. If you specify a *from date* and *from time* but no *to date* and *to time* Queue400 will select all the spoolfiles with a later date and time.

Similarly if you specify a *to date* and *to time* but no *from date* and *from time* Queue400 will select all the spoolfiles created before the date and time specified. If either the *from date* or *to date* are specified without times then the time is not compared, and just the date is used for comparison.

If the *from date* and *to date* are blanks but either the *from time* and/or *to time* are specified then the times alone are used for selecting spoolfiles. For example you can use this feature to select all the spoolfile created between 3.00 and 4.00 a.m. for all dates.

OMITQ Parameter

The OMITQ parameter specifies the output queue(s) to be omitted from the save process. Up to 5 output queues can be specified. You can omit all the output queues in a library by using *ALL as the output queue name and specifying the library, e.g. QGPL/*ALL .

blank: will omit all queues in the specified library. This is the same as specifying *ALL.



***ALL** : the program will not process all the output queues.

name: The program will not process the output queue named.

The possible values for the libraries are:

blank: All queues in any library that match the value specified in the omit output queue parameter will be omitted. This is the same as specifying ***ALL**.

***ALL:** All queues in any library that match the value specified in the omit output queue parameter will be omitted.

name: The program will not process the output queue(s) in the named library that match the value specified in the omit output queue parameter.

AUDIT Parameter

Specify whether or not a spoolfile save audit report is to be printed. This report contains a list of spoolfiles saved, the date and time of the save, the operator, the tape volume details or save file, or download details, and also indicates whether the spoolfiles were deleted after the backup or not. Total number of spoolfiles and pages are shown.

***NOPRINT** : A spoolfile save audit report will not print.

***PRINT** : A spoolfile save audit report will print

LOG Parameter

Specifies what level of message logging will take place during the move process. You can request that a message for EVERY spoolfile is written to the job log, or just one message per output queue processed, or just an overall message for the move spoolfile operation. (*note: This is different from the history file update - see the UPDHST parameter). The default is ***OVERALL**.

***OVERALL** : Just one message per move operation is displayed.

***OUTQ** : Just one message per output queue processed is written to the job log.

***SPLF** : A message for every spoolfile moved (or not moved) is written to the job log.

***NONE** : No messages are written to the joblog during the spoolfile move operation.

UPDHST Parameter

Specifies whether entries are written to the history files, recording spoolfile moves. The move enquiry commands, DSPSAVLOG and WRSVAVOPS will display details stored here. Information stored includes spoolfile details such as job and attribute information. The move operation details such as move date/time and user/operator are also recorded. The move history can be purged at a later stage. The default is ***YES**.

***YES** : Details of moved spoolfiles are kept on-line, along with details of the move operation such as move date/time and user.



***NO** : No spoolfile move history is written.

The screenshot shows the Queue400 application window. The title bar reads 'Session : 0 -- Address : 5'. The menu bar includes 'File', 'Edit', 'View', 'Macros', 'Session', and 'Help'. The toolbar contains various icons for file operations. The main display area shows the following information:

Q400U3 Q U E U E 4 0 0 16/01/1997
 QSYSOPR 13:46:32
ALL OUTPUT QUEUES

Enter 1 to select

Sel	Outq	Library	Files	Selected	Writer	Status
<input type="checkbox"/>	ACCOUNTS	QGPL	0	0		RELEASED
<input type="checkbox"/>	ACCOUNTS2	QGPL	21	0	ACCOUNTS2	RELEASED
<input type="checkbox"/>	INVOICES	QGPL	0	0	INVOICES	RELEASED
<input type="checkbox"/>	JOBLOGS	QGPL	921	0	JOBLOGS	RELEASED
<input type="checkbox"/>	PROD1	QGPL	0	0		RELEASED
<input type="checkbox"/>	PROG1	QGPL	94	0	PROG1	RELEASED
<input type="checkbox"/>	PRT01	QGPL	18	0	PRT01	RELEASED
<input type="checkbox"/>	QPRINT	QGPL	15	0		RELEASED
<input type="checkbox"/>	RECPTN	QGPL	46	0	RECPTN	RELEASED
<input type="checkbox"/>	SECURITY	QGPL	0	0	SECURITY	RELEASED
<input type="checkbox"/>	SHIP1	QGPL	21	0	SHIP1	RELEASED
<input type="checkbox"/>	SHIP2	QGPL	0	0		RELEASED
<input type="checkbox"/>	SHIP3	QGPL	0	0	SHIP3	RELEASED
<input type="checkbox"/>	SHIP4	QGPL	0	0	SHIP4	RELEASED

F3-EXIT F12-CANCEL

The status bar at the bottom shows a green cursor icon, a red dot, and the text '7/2'.

Fig 12. All output queues are displayed after specifying OUTQ(*SELECT).

Selecting from a list of output queues

If you specify *SELECT for the parameter OUTQ, the program displays a list of output queues. If you enter '1' in the select field, two things can happen, depending on the SPLF parameter.

If you entered *ALL on the SPLF parameter, then the above display does not change. All the spoolfiles in the output queue are deleted. If you specified *SELECT for SPLF parameter, the output queue is displayed.

You may then select the individual spoolfiles or request that all spoolfile be deleted. Several output queues may be processed together or you may process them one at a time. When Q400 is finished processing the output queue(s) you selected, press **F17** to proceed with the deletion of the selected spoolfiles. Take **F3** or **F12** at this stage to exit without deleting any spoolfiles.



Session : 0 -- Address : 5

File Edit View Macros Session Help

Q400U51 Q U E U E 4 0 0 23/01/1997
QSYSOPR 9:30:12

OUTPUT QUEUE: QPRINT LIBRARY: QGPL

Enter 1 to select, 5 to display, 8 or 9 for attributes, 0 to reset

1	File	User	User Data	Status	Pages	Copies	Formtype	Pty	Number
1	CONSNOTES	JESSICA	SHPU04	RDY	33	1	CONSNOTE1	5	1
—	QSYSPRT	JESSICA		RDY	1	1	*STD	5	1
—	QSYSPRT	ISABEL		RDY	21	1	*STD	5	1
—	QPRINT	ISABEL		RDY	7	1	*STD	5	1
—	INVOICES	BARBARA	ORDU51	RDY	71	1	INVOICEX2	5	1
—	QSYSPRT	BARBARA		RDY	52	1	*STD	5	1
—	QSYSPRT	BARBARA		RDY	147	1	*STD	5	1
—	STATEMENTS	PATRICIA	SHPU11	RDY	541	1	STATEMENTS	5	1
—	QSYSPRT	MIRIAM		RDY	8471	1	*STD	5	1
—	QSYSPRT	ELAINE	SHPR75	RDY	2048	1	*STD	5	1
—	QPJOBLOG	DESPATCH		RDY	3	1	*STD	5	1
—	QPJOBLOG	DESPATCH		RDY	2	1	*STD	5	1
—	QPJOBLOG	QSYS		RDY	1	1	*STD	5	1
—	QPJOBLOG	JOHNCOTTER		RDY	2	1	*STD	5	1
—	STATEMENTS	PATRICIA	SHPU11	RDY	552	1	STATEMENTS	5	+

F3-EXIT F7-SELECT/SUBSET F11-VIEW2 F12-CANCEL F13-DELETE ALL

7/2

Fig 12. The contents of the output queue are displayed for SPLF(*SELECT) on the MOVSPFL command.

Selecting from a list of spoolfiles

If you specify *SELECT for the parameter SPLF, the program displays the spoolfile entries in the output queue. The output queue display is either named in the SAVSPFL command, or selected from a list of all output queues.

Enter '1' in the selection field to pick a spoolfile for deletion. The line on the screen will be highlighted, and the 'F17-UPDATE' banner will flash at the bottom of the screen. If you have made an error, enter '0' to deselect the line. You may enter '1' against other lines, or take other select options. No update will take place until F17 is pressed.

If you decide to save the entire output queue, take F13. Again the 'F17-UPDATE' banner will flash. If you change your mind, take F13 again, and the pending update will be cancelled.

Enter '5' in the selection field to display the contents of a spoolfile.

Enter '8' to display the attributes of the spoolfile. This option displays all the attributes on one screen.

Option '9' also displays the attributes, but this is the normal system display of a spoolfile's attributes.



After **F17** is taken Q400 returns to the 'All Output Queues' display, or if a single output queue is being processed, Q400 proceeds with the deletion of the spoolfiles.

After **F3** is taken Q400 returns to the 'All Output Queues' display , or if a single output queue is being processed, the MOVSPFLF command ends. **F3** can be taken at any stage, and deletion of the files in the output queues takes place. **F17-Confirm** will flash on the 'All Output Queues' display if at least one spoolfile has been selected for deletion from any of the output queues. Once **F17** is pressed the deletion process will begin.

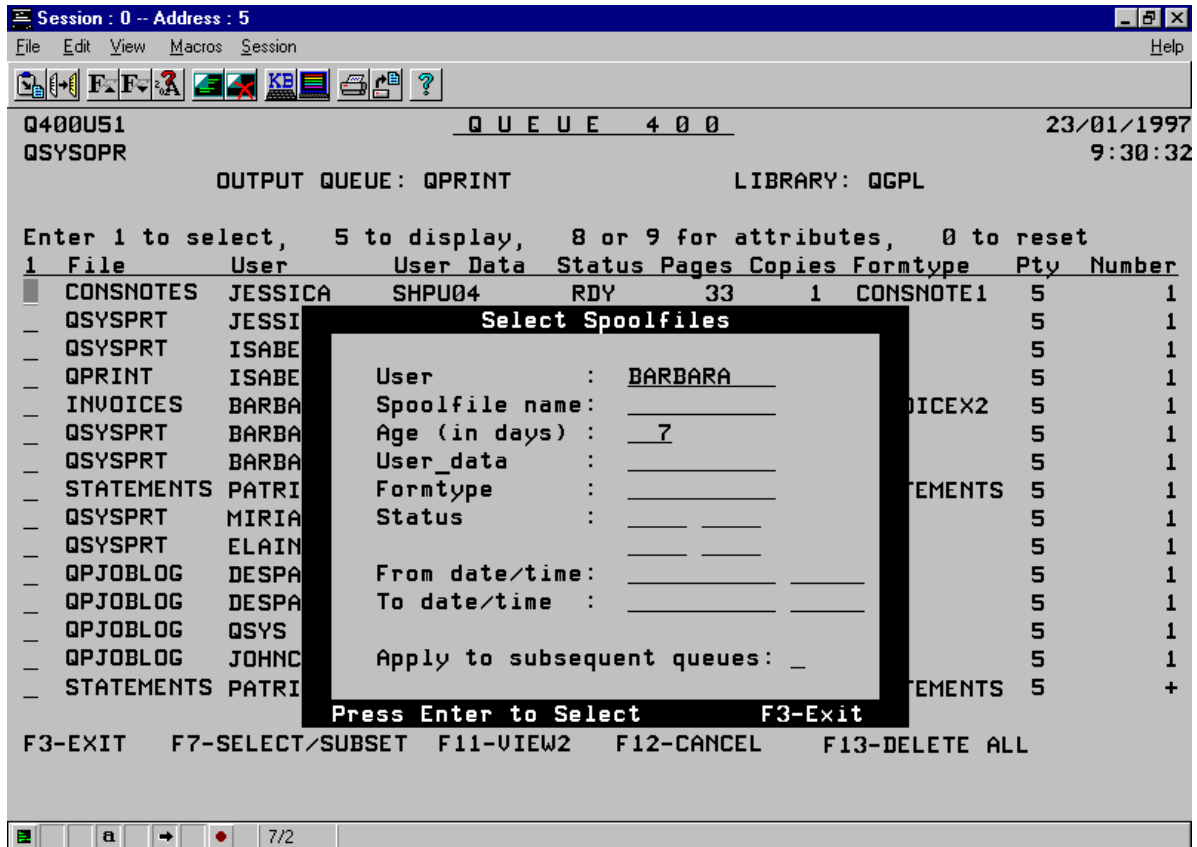


Fig 13. Changing the selection criteria

Using the Selection Parameters on the Command and within the Display Screens

The spoolfiles displayed depend on the selection criteria specified on the SAVSPLF command. If no selection was used, i.e. the USER , AGE, and other selection parameters were blank, then all the spoolfiles in the output queue are displayed. If a subset is being displayed, then the '**F7-SUBSET/SELECT**' banner will be highlighted and in reverse image, at the bottom of the screen.

If you wish to change the spoolfile selection criteria, take **F7**. A window will appear requesting changes to the selection parameters (see Fig 13). Type your changes and press **Enter**. If you



have selected more than one output queue, you will be requested to apply the same selection parameters to following queues. Enter 'Y' or 'N'.

Examples

MOVSPFL OUTQ(PRT01) TOOUTQ(PRT02)

This command will result in a list of spoolfiles on the output queue being displayed. You can choose from the list and select for moving or request to display any or all of the individual spoolfiles. The selected spoolfiles will be transferred to output queue PRT02.

MOVSPFL OUTQ(*ALL) TOOUTQ(PRT02) SPLF(*ALL) AGE(4) This command will result in all the spoolfiles on your machine over 3 days being moved to PRT02. This command could be run in batch or interactive mode.

MOVSPFL OUTQ(PRT03) TOOUTQ(INVOICES) SPLF(*ALL) USER(ISABEL)

This example would result in all the spoolfiles belonging to the user ISABEL in output queue PRT03 being transferred to output queue INVOICES.



Chapter 8

Queue400 - General Considerations

Performance - Large save operations.

If your machine is badly overloaded and disk space is scarce, it might be better to save individual outqs rather than specify ***ALL** on SAVSPLF OUTQ parameter. While the save is running, more disk space is needed to prepare the spoolfiles for saving to tape. After a successful save, this space is freed and the spoolfiles are deleted (if specified). Queue400 does not slow the machine down while running, to any great degree. After deleting a large number of spoolfiles, your system should run noticeably faster. This is because the disk space used by the deleted spoolfiles is now free to be used by new spoolfiles, and the system does not have to hold job information on the jobs associated with the deleted spoolfiles.

Performance - Large restore operations.

This only applies if you specify ***ALL** on the SPLF parameter or take **F13** within the display screens to restore/reprint all spoolfiles from a large save tape. Using the default ***SELECT** when restoring, results in a relatively small file being restored only for the selected spoolfiles.

Using Queue400 as part of your disaster recovery procedures.

SAVSPLF can be used to backup spoolfiles at any time. Spoolfiles backups could be included in end-of-day, end-of week, or end-of -month routines. (The CLEAR parameter specifies whether the spoolfiles are deleted after backup or not). In the event of disk failure or other disaster, the spoolfiles could be restored. The *SAVQ value specified on the OUTQ parameter of the RSTSPLF command, ensures the spoolfiles are placed in their original queues. **Access codes are available without delay to any Queue400 users, who need to use a backup machine when testing a disaster recovery plan, or in the event of a real disaster situation.**

Using Queue400 as part of an application.

SAVSPLF, as well as RSTSPLF and CLRSPLF, can be included in any CL program. For example a month-end run of an application could include a backup of reports to tape, along with the backup of data files. Reports that are rarely used could be saved, and reprinted later in the year. Important reports that are needed would be protected from a disk crash, if saved to tape.

Using Queue400 to delete old spoolfiles, with security.

If you have too many spoolfiles on your AS400, you can clear them off the machine after first securing them to tape. The user, age, and outq parameters are among the selection criteria available on the CLRSPLF command .

Using Queue400 to help maximise performance, and disk space usage.

Information about a job takes up space on the AS400. If the spoolfiles belonging to a job are still on the machine, the job information is retained. If you delete the spoolfiles belonging to old jobs, OS400 runs faster. In addition the disk space for spoolfiles is freed up, reducing the amount of time the system takes to allocate space for new spoolfiles.



Using Queue400 to transfer spoolfiles from one machine to another.

In the event of printer failure, entire output queues can be saved to tape, and restored on a different AS400. Needless to say, Queue400 must be installed on both machines. Transferring by tape is an alternative to comms, and can be much faster, without degrading performance. Spoolfiles can be transfer from AS400 to AS400, from System/38 to AS400, but not from AS400 to System/38.

Using Queue400 to prepare a microfiche format tape.

Queue400 can save spoolfiles, in microfiche format. There is an option to specify the tape file blocksize, or to have it automatically calculated for you. The microfiche option makes creating a tape for your fiche suppliers simple and straightforward. The commands to create the fiche tape can be incorporated in a CL program, as part of a month-end process for example. The save format is specified as *FICHE on the SAVSPLF command.

Using Queue400 to prepare files for downloading to PC.

You can use Queue400 to prepare spoolfiles for downloading to PC. Various options exist with this format. Specify whether you want *forms control characters*, physical files *automatically created*, *record length generated* and the *download library* to hold the spoolfiles in PC format. The save format is specified as *LASER on the SAVSPLF command.



Chapter 9

Queue400 Technical Information

Limitations.

Queue400 saves and restores **any** type of spoolfile, i.e. any size of spoolfile with any range of attributes. These include the spoolfiles types ***AFPDS**, ***IPDS**, ***ASCII** , ***LINE** as well as ***SCS**. Queue400 does not **display** spoolfiles other than the ***SCS** type. This is because the data in these spoolfiles is not suitable for sending to a display device. These spoolfiles can still be backed up, and restored. Version 5 of Queue400 restores the spoolfiles with original user, date, job name and number.

Queue400 library, and library lists.

You do not need to worry about having library Q400 in the library list of interactive or batch jobs. Duplicates of all Queue400 commands are in QGPL after installation. The programs called by the commands check that the correct libraries are in the library list.

Authority considerations for Queue400 users.

Users are advised to check that they have sufficient authority to view or copy spoolfiles, before starting a large save operation. If Queue400 cannot access a spoolfile, it continues trying on the next spoolfile and so on. A message is sent at the end of the save process. It says how many spoolfiles were saved, and also, how many were **not** saved. For example if the user selected 30 spoolfiles for saving to tape, and he or she had insufficient authority to view or copy 3 of the selected spoolfiles, the message would read as follows: *Saved 27 spoolfiles to device TAP01, 3 were not saved.*

Programming Information.

Queue400 is written in CL and RPG. It makes extensive use of the APIs available on the AS400.

Suggestions and Criticisms.

Healy Software International Limited welcome any suggestions or criticisms of Queue400. If you have any suggestions, or any special needs that are not catered for in Queue400, please inform us and we will endeavour to satisfy you in later releases of this product.



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