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Carsten's Corner: List Job Schedule Entries to an Output File

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Awhile ago, I received a suggestion put forward by a reader of this newsletter. The reader needed to create a spreadsheet containing all job schedule entries on the system. As it turned out, the Work with Job Schedule Entries (WRKJOBSCDE) command does not support an output file option. You can display the command's output either on a screen or written to a spooled file—that's it.

For other purposes, it would also at times come in handy to be able to limit the WRKJOBSCDE command's output to a certain selection of job schedule entries. You'd, for example, want to list all entries in a specific status or all entries run under a certain user profile. Given these requirements, I've created the List Job Schedule Entries (LSTJOBSCDE) command, which returns its output in the database file specified as input to the command, as well as supports a number of selection criteria. If the specified output file does not already exist, the LSTJOBSCDE command will create it.

The LSTJOBSCDE command prompt has the following appearance:

```

List Job Schedule Entries (LSTJOBSCDE)

Type choices, press Enter.

Job name . . . . . *ALL          Name, generic*,
*ALL
Output file . . . . .           Name

Library . . . . . *LIBL          Name, *LIBL, *CURLIB

Replace or add records . . . . . *ADD          *REPLACE, *ADD

Status . . . . . *ALL          *ALL, *HLD, *SAV,
*SCD
Frequency . . . . . *ALL          *ALL, *ONCE,
*WEEKLY...
Scheduled by user . . . . . *ALL          Name, *ALL

Submit user profile . . . . . *ALL          Name, *ALL, *JOBID

```

Job queue	*ALL	Name, *ALL, *JOB
Library		Name
Job description	*ALL	Name, *ALL, *USRPRF
Library		Name
Command substring	*ALL	
Submit time period:		
Start time and date:		
Beginning time	*ALL	Time, *ALL, *AVAIL
Beginning date		Date, *CURRENT,
*BEGIN		
End time and date:		
Ending time		Time, *AVAIL
Ending date		Date, *CURRENT, *END

A comprehensive help text panel group is associated with the LSTJOBSCDE command, explaining both the command as well as all its parameters. Note that there's an implicit AND relation between all the selection criteria offered by the command, so all specified criteria must be met for the schedule entry to be included in the output file. If you, however, want to create an output file containing, for example, all entries in either saved or held status, you can use the LSTJOBSCDE command's OUTOPT parameter to populate the file in two incremental steps.

First run the LSTJOBSCDE command for entries having status saved, specifying OUTOPT (*REPLACE) to ensure that the output file's content is replaced, in case the file already exists:

LSTJOBSCDE OUTFILE(QGPL/JOBSE01F) OUTOPT(*REPLACE) STATUS(*SAV)

Next, run the LSTJOBSCDE command for entries having status held, specifying OUTOPT(*ADD) to have the new records added to the output file's current set of records:

LSTJOBSCDE OUTFILE(QGPL/JOBSE01F) OUTOPT(*ADD) STATUS(*HLD)

This approach can be used to produce an output file reflecting an OR condition between the selection criteria specified on the individual executions of the LSTJOBSCDE command, as long as you ensure that each set of selection criteria is mutually exclusive to all other sets of selection criteria specified—otherwise you risk ending up with duplicate job schedule entries in your output file.

To actually copy the output file resulting from the above two-step process to a file format supported by all spreadsheet applications you can use the Copy to Import File (CPYTOIMPF) command. In the example below, the JOBSE01F file in library QGPL is copied to a comma-separated stream file in codepage 819 (ASCII - Latin 1 - ISO 8859-1):

```
CPYTOIMPF FROMFILE(QGPL/JOBSE01F)
          TOSTMF(' /QOpenSys/jobscde_hld_sav.csv')
          MBROPT(*REPLACE)
          FROMCCSID(*FILE)
          STMFCODPAG(819)
          RCDDL(*CRLF)
          RMVBLANK(*BOTH)
          FLDDL(' , ')
```

In some regions, using the comma as a decimal point, the FLDDL value should be a semi-colon (;) in order for the spreadsheet application to properly identify the field boundaries. To access the stream file created by the above command, you'll need to map your system's /QOpenSys file system to a drive on your PC. You can then simply double-click the stream file from your PC and have your default spreadsheet application open the file. If a spreadsheet application has not been specified as the default handler for .csv files, you can also simply open the file from within the spreadsheet application.

The following sources are involved in creating the LSTJOBSCDE command:

- CBX805 - RPGLE -- List Job Schedule Entries - CPP
- CBX805H - PNLGRP -- List Job Schedule Entries - Help
- CBX805X - CMD -- List Job Schedule Entries
- CBX805M - CLP -- List Job Schedule Entries - Build command

To create all above objects, compile and run CBX805M, following the instructions in the source header. As always, you'll also find compilation instructions in the respective source headers.

[Download a zip file containing the source code.](#)

IBM Default Job Scheduler Documentation

[Working with job schedule entries](#)

[Job schedule entries](#)

[Job scheduling options](#)

Source URL: <http://iprodeveloper.com/systems-management/carstens-corner-list-job-schedule-entries-output-file>