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## Carsten's Corner: Merge, Migrate, or Copy Job Schedule Entries Between Systems

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[Carsten Flensburg](#)

Carsten Flensburg

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Last time around, I presented the *List Job Schedule Entries (LSTJOBSCDE)* command, which offers the capability to list all or just a subset of the IBM i job schedule entries (*WRKJOBSCDE*) to an output file. In addition to the uses discussed in the accompanying article of such an output file, there's the option of using it to merge, migrate, and copy job schedule entries between systems. On one system, you can create an output file containing the desired selection of job schedule entries and then save and restore that output file to another system. You can then use the output file as input to the new *Update Job Schedule Entries (UPDJOBSCDE)* command on the system to which the output file was restored.

Job schedule entries that are scheduled for a particular date and time will not be added to the job scheduler if that date and time has passed. All objects referenced by each job schedule entry—such as job queues and job descriptions, as well as commands to run—must exist on the system where this command is run in order for the update to be successful.

A completion message indicating the number of job schedule entries that were added, how many attempts to add a job schedule entry that failed, as well as the number of warnings issued for the added entries is sent once processing of the output file is completed. For details about which job schedule entries were successfully added and which entries failed, please check the job log following the UPDJOBSCDE command execution. Also note that all restrictions applying to the Add Job Schedule Entry (*ADDJOBSCDE*) command also apply to this command. Please refer to the *ADDJOBSCDE* command help text for all the details.

As another customization option, you can use interactive SQL or a simple database record editor like IBM's Database File Utility (DFU) to delete records from the output file before running the UPDJOBSCDE command and thereby exclude the selected entries from being added to the job scheduler on the new system.

The UPDJOBSCDE command also has the ability to detect whether a given job schedule entry name already exists in the job scheduler and can avoid adding such entries, as well as control the job schedule entry status following the entry addition. Here's what the UPDJOBSCDE command prompt looks like:

```
Update Job Schedule Entries (UPDJOBSCDE)
```

```
Type choices, press Enter.
```

Job schedule entry file . . . . .		Name
Library . . . . .	*LIBL	Name, *LIBL, *CURLIB
Option . . . . .	*ALL	*ALL, *NEW
New entry status . . . . .	*CPYSTS	*CPYSTS, *HLD, *RLS

The Job Schedule Entry File parameter specifies the name of the output file that must previously have been produced by the LSTJOBSCDE command. Otherwise an error message is returned by the UPDJOBSCDE command. Specifying Option *\*NEW* will cause only entries in the output file with a name not already existing in the job scheduler to be added.

The New Entry Status parameter controls the final status of each added job schedule entry. Note that there's no way to directly control the status of a job schedule entry being added to the job scheduler. Consequently, if the schedule information of the new job schedule entry causes the job schedule entry to be submitted immediately following the creation of the entry, a request to hold the schedule entry won't prevent the job from being submitted. The entry's status, however, is then subsequently changed to Held.

Therefore, it's important that you review the output file to identify such potential issues from adding the contained entries as well as take the necessary steps to avoid any complications or problems that might otherwise emerge when the job schedule entries are added. One such step could be holding all job queues specified on the job schedule entries in question, thereby preventing the scheduled jobs from starting immediately. Detailed online help text is available using F1=Help on the UPDJOBSCDE command prompt to further explain the command and its parameters.

Note that even though I've thoroughly tested the UPDJOBSCDE command on my own system, I definitely recommend you perform testing on your own system before you rely on the UPDJOBSCDE command in a production environment. Different conditions and variations may apply to different systems and may cause an unexpected outcome.

In order to be able to recover from unforeseen complications related to adding the job schedule entries contained in the specified output file, you're advised to immediately save the entries in the job scheduler prior to running this command. The following commands will save the job scheduler to save file *SAVJOBSCDE* in library *QGPL*:

```

CRTSAVF FILE(QGPL/SAVJOBSCDE)
      TEXT('System default job scheduler')

SAVOBJ OBJ(QDFTJOBSCD)
      LIB(QUSRSYS)
      DEV(*SAVF)
      OBJTYPE(*JOBSCD)
      SAVF(QGPL/SAVJOBSCDE)
      UPDHST(*NO)
      CLEAR(*NONE)
      SAVACT(*NO)

```

If you decide to restore the default job scheduler to the version saved by the above command, you can run the following command:

```
RSTOBJ OBJ(QDFTJOBSCD)
       SAVLIB(QUSRSYS)
       DEV(*SAVF)
       OBJTYPE(*JOBSCD)
       SAVF(QGPL/SAVJOBSCDE)
```

The following source code members are involved in creating the UPDJOBSCDE command:

```
CBX806  -- RPGLE  -- Update Job Schedule Entries - CPP
CBX806H -- PNLGRP -- Update Job Schedule Entries - Help
CBX806V -- RPGLE  -- Update Job Schedule Entries - VCP
CBX806X -- CMD    -- Update Job Schedule Entries

CBX806M -- CLP    -- Update Job Schedule Entries - Build command
```

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

To create all above objects, compile and run the CL program *CBX806M*, following the instructions in the source header. As always, you'll also find compilation instructions in the respective source headers.

**NOTE:** For the UPDJOBSCDE command processing program *CBX806* to compile, you'll need to download and a copy of the *SQLCLI\_H* member created by Scott Klement to a QRPGLSRC source file in your job's library list. Below I've provided a link to a zip file containing the correct version of the *SQLCLI\_H* copy member.

### **Related Articles and Material**

[Carsten's Corner: List Job Schedule Entries to an Output File](#)

[SQLCLI\\_H copy member in a .zip file \(required for this command\)](#)

### **IBM Default Job Scheduler documentation:**

[Jobs Scheduled in WRKJOBSCDE Are Not Being Submitted at the Scheduled Time When QUSRSYS is Being Saved](#)

**Source URL:** <http://iprodeveloper.com/systems-management/carstens-corner-merge-migrate-or-copy-job-schedule-entries-between-systems>