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## Carsten's Corner: New Work with Database Server Jobs Command

[System iNetwork Systems Management Newsletter](#)

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Wed, 09/07/2011 (All day)

If you want to monitor and control the database server jobs running on an IBM I, there's now a Work with Database Server Jobs (WRKDBSJOB) command that I've written to help you manage those tasks. Database server jobs perform the actual database access and data processing for various clients connecting to your system, including DDM/RDB, SQL, and JDBC /ODBC clients.

In many situations it's very useful to be able to quickly locate the specific jobs that are currently accessing the databases on your system. You then have the opportunity to identify the type of work being performed against specific tables, analyze the entries in the job's job log, verify the job's library list as well as examine the job open files' I/O statistics, and view the last SQL statement processed in the job.

The WRKDBSJOB command allows you to select the database server jobs to include in the job list based on a number of criteria, including job or current user profile, connecting user profile, job status, and database server type. The following database server job types are supported by the WRKDBSJOB command:

Server	Job	Description
DDM/RDB	QRWTSRVR	Allows a TCP/IP user on a remote client system to use SQL or native file I/O (DDM) to access the database on the i5/OS operating system. The DDM server allows applications or users to access remote databases.
SQL	QSQSRVR	Processes SQL statements from an application that is running SQL in server mode. In server mode, each SQL connection is processed by a separate job.
JDBC/ODBC	QZDASOINIT	SQL to JDBC and ODBC client applications.

Let's have a look at the command presented in today's article. The WRKDBSJOB command prompt has the following appearance when all the command's parameters are displayed:

```
Work with DB Server Jobs (WRKDBSJOB)
```

Type choices, press Enter.

```

User name . . . . . *ALL      Name, generic*,
*ALL...
Connecting user . . . . . *ALL      Name, *ALL

Job status . . . . . *ACTIVE      *ACTIVE, *JOBQ,
*OUTQ...
Server . . . . . *ALL      *ALL, *SQL, *DDM,
*DB
          + for more values

Current user . . . . . *ALL      Name, *ALL

```

The command and its parameters are fully documented by the accompanying help text panel group, which explains all the details. Below is an example of what the Work with Database Server Jobs list panel looks like when run on my system with default parameter setting:

```

                                Work with DB Server Jobs
WYNDHAMW
                                17-08-11
15:35:21
User . . . : *ALL      Connect user: *ALL

Type options, press Enter.

2=Change  4=End  5=Work with  8=Job SQL information  10=Display
job log
11=Job open files  12=Connecting job  14=Connecting user jobs

Current
Opt  Job      User      ---Status---  IP address
-----
      QZDASOINIT  DRIEHL  ACTIVE  TIMW  12.279.42.58
      QZDASOINIT  QUSER   ACTIVE  PSRW
      QZDASOINIT  QUSER   ACTIVE  PSRW

```

```

QZDASRVSD  QUSER      ACTIVE  SELW
QZDASSINIT QUSER      ACTIVE  PSRW
QSQSRVR    QDIRSRV    ACTIVE  CNDW  763462/QDIRSRV/QDIRSRV
QSQSRVR    QDIRSRV    ACTIVE  CNDW  763462/QDIRSRV/QDIRSRV
QSQSRVR    QDIRSRV    ACTIVE  CNDW  763462/QDIRSRV/QDIRSRV

```

More...

Parameters or command

==>

```

F3=Exit    F5=Refresh  F11=View 2  F12=Cancel  F20=Work with
active jobs
F21=Print list      F22=Display entire field  F24=More keys

```

Use F11 to toggle between the list panel's three alternate views. In case the server type or IP address value exceeds the respective list column's width, use function key F22 to see the entire value. Again, you can find the list panel as well as list columns documented in much detail in the cursor-sensitive online help text provided with the WRKDBSJOB command. Simply point the cursor to the area of interest and press F1 to access the associated help text.

The following sources are involved in creating the WRKDBSJOB command:

```

CBX810  -- RPGLE  -- Work with DB Server Jobs - CCP
CBX810E -- RPGLE  -- Work with DB Server Jobs - UIM General Exit Pgm
CBX810H -- PNLGRP -- Work with DB Server Jobs - Help
CBX810L -- RPGLE  -- Work with DB Server Jobs - UIM List Exit Program
CBX810P -- PNLGRP -- Work with DB Server Jobs - Panel Group
CBX810V -- RPGLE  -- Work with DB Server Jobs - VCP
CBX810X -- CMD    -- Work with DB Server Jobs

CBX810M -- CLP    -- Work with DB Server Jobs - Build command

```

To create all above objects, compile and run the CBX810M CL program following the instructions in the source header. You can also find compilation instructions in the respective source headers.

The WRKDBSJOB command's list panel includes two special list options to display job open files and job SQL information in the form of the Display Job Open Files (DSPJOBOPNF) and Display Job SQL Information (DSPJOBSQLI) commands, respectively. The following source members provide the foundation for the two job information commands:

```

CBX227  -- RPGLE  -- Display Job Open Files - CPP
CBX227E -- RPGLE  -- Display Job Open Files - UIM Exit Program

```

```
CBX227H -- PNLGRP -- Display Job Open Files - Help
CBX227P -- PNLGRP -- Display Job Open Files - Panel Group
CBX227X -- CMD      -- Display Job Open Files

CBX228  -- RPGLE   -- Display Job SQL Information - CPP
CBX228E -- RPGLE   -- Display Job SQL Information - UIM Exit Program
CBX228H -- PNLGRP  -- Display Job SQL Information - Help
CBX228P -- PNLGRP  -- Display Job SQL Information - Panel Group
CBX228X -- CMD     -- Display Job SQL Information
```

You can find links below to the articles presenting the two commands and a download link for each utility, as well. For your convenience, I've included the relevant source members with the zip file associated with this article, and the two job information commands are automatically created by the CBX810M CL program, provided you've followed the instructions in the CBX810M CL program source header.

The WRKDBSJOB command's list panel also include an option 14 referring to the Work with Jobs (WRKJOBS) command. I've included a link to the article presenting the WRKJOBS command and allowing you to download all sources, and create all objects, involved in building the WRKJOBS command, as well as a couple of other CL commands discussed in that article. The article is called *APIs by Example: Displaying Job Client IP Address and Job Log Information Using API*.

**You can [download a zip file containing all the source code here](#).**

#### **Related Articles:**

[APIs by Example: Hidden Job SQL Information Exposed by Retrieve Job Information API](#)

[APIs by Example: List Open Files API and the Display Job Open Files Command](#)

[APIs by Example: Displaying Job Client IP Address and Job Log Information Using APIs](#)

[Getting the Job Log from QRWTSRVR Job](#)

[Using DRDA to Execute SQL Statements on Another iSeries](#)

[DRDA Server Access Control Exit Programs](#)

[IBM eServer iSeries Guidelines for Monitoring High Priority Job Performance](#)

**Source URL:** <http://iprodeveloper.com/database/carstens-corner-new-work-database-server-jobs-command>