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APIs by Example: Check Job Queue Status

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In this installment of APIs by Example, Carsten Flensburg has provided a sample program, command, and help panel that demonstrate the Open List of Job Queues (QSPOLJBQ) API.

In V5R2 and earlier releases, the "Open List APIs" are part of an optional component of the operating system called "OS/400 -- Host Servers." This component, which is installed in library QGY, is product option 12 on the Install Licensed Program screen. In V5R3, these APIs were moved to the base operating system, are installed in library QSYS, and do not have to be installed separately.

The Open List APIs are similar to other APIs, but they have additional sorting and filtering capabilities and do not rely on user spaces to return large lists of data. Instead, the API returns the first entry of the list and a handle that you can pass to the Get List Entries (QGYGTLE) API to get more entries.

In this example, QSPOLJBQ is called in order to get a list of job queues. That means that each entry of the list represents one job queue on the system. The call to this API returns the first job queue as well as a handle. Then the program enters a loop that will retrieve the rest of the job queues by passing the handle to QGYGTLE. Finally, the Close List (QGYCLST) API is called to tell the system that the program is done using the list.

The following code snippet shows this process:

```
LstJobQs( OJBQ0100
          : %Size( OJBQ0100 )
          : 'OJBQ0100'
          : LstInf
          : FltInf
          : SrtInf
          : 1
          : ERRC0100
        );
If  ERRC0100.BytAvl > *Zero;
  // send error message
Else;

  If  LstInf.RcdNbrRtn > *Zero;

    ExSr  PrcLstEnt;

    DoW  LstInf.LstSts '2' Or
         LstInf.TotRcd >= CurRcdNbr;
```

```

        GetLstEnt( OJBQ0100
                  : %Size( OJBQ0100 )
                  : LstInf.Handle
                  : LstInf
                  : 1
                  : CurRcdNbr
                  : ERRC0100
                  );

        If  ERRC0100.BytAvl > *Zero;
            Leave;
        EndIf;

        ExSr  PrcLstEnt;
    EndDo;

    CloseLst( LstInf.Handle: ERRC0100 );

EndIf;

If  InfMsgCnt = *Zero;
    // No errors were issued! Woo-hoo!
EndIf;

EndIf;

```

Information about the Open List APIs being moved into the base component of OS/400 is on page 54 of the V5R3 Memo to Users document. You can read it at the following link:
<http://publib.boulder.ibm.com/iserics/v5r3/ic2924/info/rzaq9.pdf>

Information about the format of the data returned by the Open List APIs can be found at the following link: <http://publib.boulder.ibm.com/iserics/v5r2/ic2924/info/apis/oli.htm>

The Check Job Queue Status utility demonstrates the following APIs:

Open List of Job Queues (QSPOLJBQ)

<http://publib.boulder.ibm.com/iserics/v5r2/ic2924/info/apis/qspoljbq.htm>

Get List Entries (QGYGTLE)

<http://publib.boulder.ibm.com/iserics/v5r2/ic2924/info/apis/qgygtle.htm>

Close List (QGYCLST)

<http://publib.boulder.ibm.com/iserics/v5r2/ic2924/info/apis/qgyclst.htm>

You can download the sample code for this article from

<http://www2.systeminetwork.com/noderesources/code/clubtechcode/CheckJobQStatus.zip> .

Source URL: <http://iprodeveloper.com/rpg-programming/apis-example-check-job-queue-status>