

IBM DB2 for i: Code example

Database monitor status checker

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/* CRTBNDC PGM(DBMONTTOOLS/QRVDBM) SRCFILE(DBMONTTOOLS/C) SRCMBR(QDBM) */
#include [qusec.h]
#include [mih/cpybytes.h]
#include [stdio.h]
#include [string.h]

#pragma linkage(QQQQSDBM, OS)

int main(int argc, char *argv[])
{
    Qus_EC_t err;
    char *job;
    char mon[2][10];
    /* OldMon - Detailed Monitor (STRDBMON) */
    /* NewMon - Summary/Memory-based Monitor */
    char oldmon = 'N', newmon = 'N', memhdl[6];
    int num;
    int maxnum = 2;
    int stg_used;
    int rc;

    job = argv[1];
    err.Bytes_Provided = 0;

    rc = QQQQSDBM(job, &num, &maxnum, &mon, memhdl, &err);
    /* API parameter description */
    /* Qualified job name - Input */
    /* Number of active monitors - Output */
    /* Size of active monitor array - Input */
    /* Type of active monitor array - Output */
    /* Memory handle - Output */
    /* Error code - Input/Output */

    if (!strcmp(mon[0], "FILE", 5))
        oldmon = 'Y';
    else if (!strcmp(mon[1], "FILE", 5))
        oldmon = 'Y';

    if (!strcmp(mon[0], "SQLMEMORY", 10))
        newmon = 'Y';
    else if (!strcmp(mon[1], "SQLMEMORY", 10))
        newmon = 'Y';

    if (oldmon == 'Y')
        printf("Detailed monitor is running.\n");
    else
        printf("Detailed monitor is NOT running.\n");

    if (newmon == 'Y')
        printf("Summary monitor running. Mem handle %.6s\n", memhdl);
    else
        printf("Summary monitor is NOT running.\n");

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}

/* ===== */
/* Source for creating a CL command to invoke monitor status pgm */
/* CRTCMD CMD(DBMONTTOOLS/QRYDBM) PGM(DBMONTTOOLS/QRYDBM) */
/* SRCFILE(DBMONTTOOLS/QCMDSRC) */
/* COMMAND NAME: QRYDBM */
/* */
/* COMMAND TITLE: Query database monitor status */
/* */
/***** */
QRYDBM: CMD PROMPT('Query database monitor status')

        PARM KWD(JOB) TYPE(JOBNAME) DFT(*CURRENT) +
              SNGVAL((*ALL) (*CURRENT)) MIN(0) MAX(1) +
              PROMPT('Job Name')

JOBNAME: QUAL TYPE(*NAME) +
          LEN(10) +
          RSTD(*NO) +
          PARM KWD(JOB) TYPE(JOBNAME) DFT(*CURRENT) +
              SNGVAL((*ALL) (*CURRENT)) MIN(0) MAX(1) +
              PROMPT('Job Name')

JOBNAME: QUAL TYPE(*NAME) +
          LEN(10) +
          RSTD(*NO) +
          MIN(1) +
          QUAL EXPR(*YES) +
          TYPE(*NAME) +
          LEN(10) +
          RSTD(*NO) +
          MIN(0) +
          EXPR(*YES) +
          PROMPT('User')
          QUAL TYPE(*CHAR) +
          LEN(6) +
          RSTD(*NO) +
          MIN(0) +
          EXPR(*YES) +
          FULL(*YES) +
          RANGE(000000 999999) +
          PROMPT('Number')

```
