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## APIs by Example: An Easy Way to Retrieve the Call Stack

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This installment of Carsten Flensburg's APIs by Example is intended to ease the process of retrieving the current job's call stack. He provides a utility that you can call that will return the program names and library names in the call stack. This functionality is similar to that displayed by the DSPJOB OPTION(\*PGMSTK) command. Instead of displaying them on the screen, however, the CBX501 program retrieves them into your program's variables.

This is a sample program that demonstrates how easy it is to retrieve the call-stack using the CBX501 program:

```

    **-- Compilation specification:
    -----**
    **
    **      CrtBndRpg      Pgm( /CBX501T )
    **                  SrcFile( /QRPGLESRC )
    **
    **
    **-- Header specifications:
    -----**
    H Option( *SrcStmt )
    **-- Global variables:
    -----**
    D Eix              s              10i 0
    D PgmNam            s              10a
    D PgmLib            s              10a
    **-- Parameters:
    -----**
    D PxEntNbr          s              5p 0 Inz( %Elem( PxStkEnt ))
    D PxStkEnt          s              20a  Dim( 64 )
    **
    C                  Call          'CBX501'
    C                  Parm                      PxEntNbr
    C                  Parm                      PxStkEnt
    **
    C                  For            Eix = 1 to PxEntNbr
    **
    C                  Eval            PgmNam = %Subst( PxStkEnt(Eix):  1:
10 )
    C                  Eval            PgmLib = %Subst( PxStkEnt(Eix): 11:
10 )
    C                  EndFor

```

```
**
```

```
C
```

```
Return
```

The following API is demonstrated in the Easy Call Stack Retrieval Program:

Retrieve Call Stack (QWVRCSTK)

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

You can retrieve the source code for this utility, including the sample program shown above, from

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

**Source URL:** <http://iprodeveloper.com/rpg-programming/apis-example-easy-way-retrieve-call-stack>