



APIs by Example: List Fields (QUSLFLD)

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This week's API by Example from Carsten Flensburg provides program CBX103, which scans a file for a string and prints a report listing the field, field attributes, and the position within the field for all the records in which the search string appears. A small test program, CBX103T, lets you test the main by entering a file and library name, search string, and whether the search is case-sensitive or not.

Here's some sample output from test program CBX103T showing a search for the string INVP in file TESTPF in library CHUCK:

File	Library	Scan value	RRN	Field name	Pos.	Field value
TESTPF	CHUCK	INVP	11	ATFILE	3	CSINVP

The above shows that the string was found in record 11, field ATFILE, starting in position 3 of that field.

Program CBX103 shows not only how to use the QUSLFLD to retrieve fields and their attributes in a record format, but it also shows how to use the user space and national language support APIs, as well as several C library functions. Here's a list of the APIs and functions used in the program:

List Fields (QUSLFLD)

This API generates a list of fields within a specified file record format name and places the list in a specified user space. You can use the QUSLFLD API only with database file types, such as *PF, *LF, and *DDMF, and device file types, such as *ICFF and *PRTF.

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

Create User Space (QUSCRTUS)

This API creates a user space in either the user domain or the system domain.

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

Retrieve Pointer to User Space (QUSPTRUS)

QUSPTRUS retrieves a pointer to the contents of a user-domain user space.

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

Delete User Space (QUSDLTUS)

This API deletes user spaces created with the Create User Space (QUSCRTUS) API.

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

Convert Case (QlgConvertCase)

The QlgConvertCase API can be used to convert character data to either uppercase or lowercase.

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

C library functions:

Open record file (_Ropen)

This opens the record file specified as defined by the key words in the mode parameter. If the file does not exist it will not be created.

Close record file (_Rclose)

This API closes the previously opened record file identified by the file pointer parameter.

Read first record (_Rreadf)

This reads the first record in the access pass specified by file pointer in either arrival or keyed order.

Read next record (_Rreadn)

This API reads the next record in the access pass specified by file pointer in either arrival or keyed order.

The C functions are documented at

<http://publib.boulder.ibm.com/iserics/v5r2/ic2924/books/c4156071.pdf>.

You can obtain the RPG IV sample programs at

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

The above source code was written by Carsten Flensburg. For questions regarding this tip, contact Carsten at

<mailto:flensburg@novasol.dk>.

Source URL: <http://iprodeveloper.com/rpg-programming/apis-example-list-fields-quslfd>