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IFS Journal Monitor

[System iNetwork Systems Management Newsletter](#)

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In the last issue, Carsten Flensburg presented an IFS journal monitor that records when a new object is created in a specified IFS directory. In this issue, Carsten extends the functionality of that utility by adding programs that check for object locks on the new IFS object and process the file.

The utility consists of a total of six programs. ILE RPG program CBX925 is the receive journal exit program. It's a slightly modified version of the same program from the last issue. Two other programs, CBX925C and CBX925X, were featured in the last issue. CL program CBX925C runs on a job queue as a never-ending program and configures RCVJRNE to call exit program CBX925 when a journal entry is received. CL program CBX925X creates the required journal objects and programs based on its two input parameters, the library to store the compiled utility, and the name of the IFS directory to monitor.

The three new ILE RPG programs in this issue are CBX9261, CBX9262, and CBX9263. When journal exit program CBX925 executes, it calls CBX9261, which in turn calls CBX9262, which tests to see if anyone is holding a lock on the IFS file. CBX9261 then calls CBX9263, which contains code to open, read, and close the IFS file. It's in CBX9263 that you can easily add your own code to process the IFS file. Here are the processing steps in CBX9263:

- a. Verifies the file's existence and retrieve file information using the lstat IFS API.
- b. Converts an EPOCH timestamp to a timestamp data type.
- c. Opens the specified IFS file and reads it, line by line.
- d. Executes your custom processing code in subroutine 'PrcFilDta'.
- e. Closes the file and archives it in a subdirectory called 'archive'. If the 'archive' subdirectory doesn't exist, it's created. If a file by the same name already exists in the archive directory, that file is implicitly deleted by the unlink API prior to moving the new file.

Program CBX9262, which tests for object locks on the IFS file, uses API QPoLROR. Since QPoLROR was introduced in V5R2, this utility requires V5R2 or later.

You can download all of the source for this utility from

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

The above utility was written by Carsten Flensburg. For questions regarding this tip, contact Carsten at <mailto:flensburg@novasol.dk>.

Source URL: <http://iprodeveloper.com/database/ifs-journal-monitor>