

OpenClos v3.21 for Win32

Program Description

This free stress-testing utility runs one of a selected battery of tests on a data or operating system file for a period of 10 seconds, and then it reports the average number of iterations per second to the screen and an optional log file.

This tool gives you a simple way of stress-testing the database file open/close process, the database record read process, the OS open/close process, or the OS open/read/close process.

Platform and Package

Win32; Btrieve Utilities, Resources & Tools; GSLic

Pricing

FREE

Command Line Syntax and Help Screen

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Usage: OPENCLOS Filename [/R#] [/T#] [/Llogfile]

```
This command stress tests a database engine or file server.
Use the /R# option to specify the run time in seconds (default=10).
Use the /T# option to specify the test type from this list.
  1: MKDE File Open/Close (Default).
  2: MKDE File StepFirst.
  3: MKDE File StepLast.
  4: MKDE File GetFirst.
 11: OS File Open/Close.
 12: OS File Open/Read512B/Read16KB/Close.
Use the /L option to specify the log file to write results.
Use the /H option to calculate and display a histogram.
```

Examples and Sample Usage

To run OpenClos, simply provide a database filename on the command line, and the system will issue an MKDE FileOpen and FileClose request over and over for 10 seconds, as in this example:

```
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Accessing Data File person.mkd...
Running Test Type 1 (MKDE File Open/Close)...
10:32:00.074: Starting...
10:32:10.551: Ending...
Iterations/s: 1002.195
```

If you wish to test database read performance, you can use the /T option to specify the type of read you want. Adding /T2 to the command line will open the file one time, then issue the StepFirst command over and over again inside the loop, counting this operation instead. Using /T3 will test with a StepLast, and /T4 will test with a GetFirst (using Key 0).

Options /T11 and /T12 will test file system performance. The former will test the ability to open and close the file at the OS layer, and the latter will open the file, issue two different read calls (one for 512 bytes and another for 16KB) and then close the file, simulating a true MKDE physical file open request. You can specify ANY file on the disk (of at least 16KB in size) for these options.

If you want to run the test for a different duration, specify the /R switch and indicate the number of seconds you wish it to run. (The minimum is 1 second.) The default is 10 seconds if the R switch is not provided, which is usually enough.

You can add the /H switch to track blocks of operations (50 file operations, or 1000 record reads) and display a histogram of the results. This can help detect more wide-spread variability in the operation times.

Adding the /L switch will write the resulting performance data (current timestamp and iterations per second) to the specified log file. This data is suitable for loading

into Excel to graph the system performance over a long period of time. For an example of how to create the graph in excel, refer to our white papers at <http://www.goldstarsoftware.com/whitepapers-troubleshooting.asp>.

Other Information

OpenClos is part of the Btrieve Utilities, Resources & Tools toolkit.

An older DOS version that only supports Open/Close is also available.

For more information on these utilities contact us at www.goldstarsoftware.com

Version History

Version 1.1: First documented version

Version 2.0: First Win32 version; Added GSLic capability.

Version 2.1: Added ability to test OS opens and reads, along with instrumentation for easier timing.

Version 3.0: Rewrote tool from the ground up to support more than simple file open and close operations and to provide better extensibility.

Version 3.10: Added better display message on test type for reference purposes.

Version 3.11: Fixed command parser bug due to _toupper bug.

Version 3.20: Added ability to write data to a log file for performance tracking, as well as the ability to specify the runtime.

Version 3.21: Added the histogram option.

Known Problems

None.