**New Locks Demo**

Purpose:

Provide simple and small C++ lock classes that will be easy to use and port to Linux. This project provides:

1. CSLock : a local lock based on the Win32 CRITICAL\_SECTION.
2. gCSLock : a global lock similar to CSLock, e.g., uses a shared CRITICAL\_SECTION.
3. MLock, gMLock : local and global locks based on the Win32 Mutex.
4. SRWLock, gSRWLock : local and global wrappers for Win32 reader/writer locks.
5. CSConditionVariable : wrapper for Win32 CONDITION\_VARIABLE that works with a CSLock.
6. synchOut : synchronized version of std::cout.
7. Locker and unlocker : manipulators that help synchronize output streams.
8. doLog : a macro for debug logging using synchOut.

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