

Assignment 2 Part 2: Report

183 ms and 915 ms

Comparison between Pthread Mutex and Pthread Spinlock

Through 10 iterations of *mylocks*, the average for *Pthread Mutex* is 915 ms compared to that of 183 ms from Pthread Spinlock. Through further investigation the the spinlock, spinlock is significantly faster and holds less contention when the critical section is locked for short amounts of time, in other words, spinlock would be evidently faster than Pthread Mutex since we are only incrementing a value c in the critical section. Mutex checks if other threads are waiting for the lock which increases the time taken.

	Average
Pthread Mutex	915 ms
Pthread Spinlock	183 ms