

Documentation Lab1 Bank accounts.

In the implementation I used 2 structures, one for the operations and 1 for the accounts. There exists a file with accounts and on each account is performed a number of operations. Each of those accounts uses a mutex to protect the balance from that account when trying to perform multiple operations on that account. The critical section is the balance of the account. There is also a mutex which protects a global variable checkPassed used by the threads for the periodical review.

Constants: There are 15 accounts.

Tests:

1. – Number of operations: 100000
-Number of threads: 1
-Time: 10.1789 seconds
2. – Number of operations: 100000
-Number of threads: 2
-Time: 5.37306 seconds
3. – Number of operations: 100000
-Number of threads: 4
-Time: 3.3852 seconds
4. – Number of operations: 100000
-Number of threads: 8
-Time: 2.33629 seconds