

Concurrent Programming Report

This report outlines with the use of table the time taken for different ways of handling thread synchronisation. The methods used were an atomic variable, a mutex lock using a semaphore and using the synchronize keyword on a method.

Times after running each process five times

| Atomic Variable | Mutex Lock | Synchronize Keyword |
|-----------------|------------|---------------------|
| 2521 | 2528 | 2522 |
| 2526 | 2529 | 2526 |
| 2540 | 2533 | 2529 |
| 2540 | 2542 | 2529 |
| 2542 | 2547 | 2560 |
| Min | Min | Min |
| 2521 | 2528 | 2522 |
| AVG | AVG | AVG |
| 2534 | 2535 | 2533 |
| Max | Max | Max |
| 2542 | 2547 | 2560 |

In summary the atomic variable was the fastest with the synchronised method coming in second and the mutex lock coming in last.