|  |  |  |
| --- | --- | --- |
| NUMBER OF ORDERS | SINGLE THREAD TIME (ms) | MULTIPLE THREAD TIME (ms) |
| 100 | 3287 | 1651 |
| 1000 | 11493 | 4726 |
| 10000 | 36941 | 10493 |

EXPLANATION:

As seen by the table a multi-threaded approach of processing orders is much faster than a single threaded approach. The power between the two can be seen in the time difference for processing a large number of orders such as 10000 orders. This is due to the fact that a single thread processes the orders sequentially, in other words, one after the other so it will take much more time. Whereas, a multi-thread processes the orders concurrently, in other words, at the same time so it will be much faster. Therefore, a multi-thread approach is more efficient for processing many tasks at once.