|  |  |  |
| --- | --- | --- |
| Number of Order | Single Thread | Multiple Thread |
| 100 | 1110 | 472 |
| 200 | 1987 | 693 |
| 300 | 2939 | 1048 |
| 400 | 3868 | 1515 |
| 500 | 4739 | 1762 |

As we can clearly see form the chart, multiple thread has better efficiency than the single thread. The single thread increases linearly and increase as expected While multiple thread can handle the order concurrently, therefore increasing the efficiency. However, due to the fact that we need to collect the summary information which is handled at the main thread, the multiple thread has to wait for the information to be processed in the main thread which decreases some efficiency. But still we have proved that multiple thread is far more efficient than the single thread.