|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Runtime (msec)** | 10 Orders | 50 Orders | 100 Orders | 200 Orders |
| Multi-Thread | 1096 | 3585 | 5649 | 10924 |
| SingleThread | 1398 | 4497 | 7879 | 14049 |

In the table you can see the runtime for both Multi Threading and Single Thread methods with multiple different order numbers. As one can see the Multi Thread is faster than the Single threading because that method is running multiple threads at the same time, minimizing wasted time. Additionally, as the order number goes up the Multi Threading strategy becomes increasingly more efficient compared to the single threading strategy. As the thread number (order number) increases the single thread strategy wastes more and more time, while the multi threading can run the code for each thread while another thread is being run. Therefore Multi Threading gets more efficient the larger the data and more threads you have.