|  |  |  |  |
| --- | --- | --- | --- |
| Number of Orders | Number of Items Per Order | Processing time  (Multiple Threads) | Processing time (Single thread) |
| 20 | 10000 | 1366 | 2151 |
| 50 | 10000 | 1869 | 5282 |
| 4 | 100000 | 16897 | 55134 |
| 5 | 100000 | 17942 | 66286 |
| 8 | 100000 | 30535 | 131517 |

My report shows that using multiple threads is much faster than using only one thread. Furthermore, the difference between the processing time in multi-threading and single-threading increases as the number of orders increases. In lower data sets, it's harder to see the difference between multi-threading and single-threading, but in larger data sets it is more apparent.