

| Number of Orders | Single thread (msecs) | Multiple Threads (msecs) |
|--|-----------------------|--------------------------|
| 10 orders 5 min items Delta 100 | 210 | 269 |
| 50 orders 10 min Items Delta 1 mil | 11253 | 9075 |
| 100 Orders 10 Min Items delta 20 | 425 | 641 |
| 4 10,000,000 50000 | 19561 | 8037 |

In some of my tests, namely 1 and 3 small orders with low delta values, using threads actually slowed the process down which I was surprised to see. In the larger ones like 2 and 4, the difference becomes noticeable and clearly positive. The 4th test was the most extreme and the results are the clearest. Having 4 orders, each with a minimum of 100000 items and a 50000 delta value, not only took a bit of time to generate the data sets, but processing with single threading took quite some time, compared to multithreading which more than halved the time.