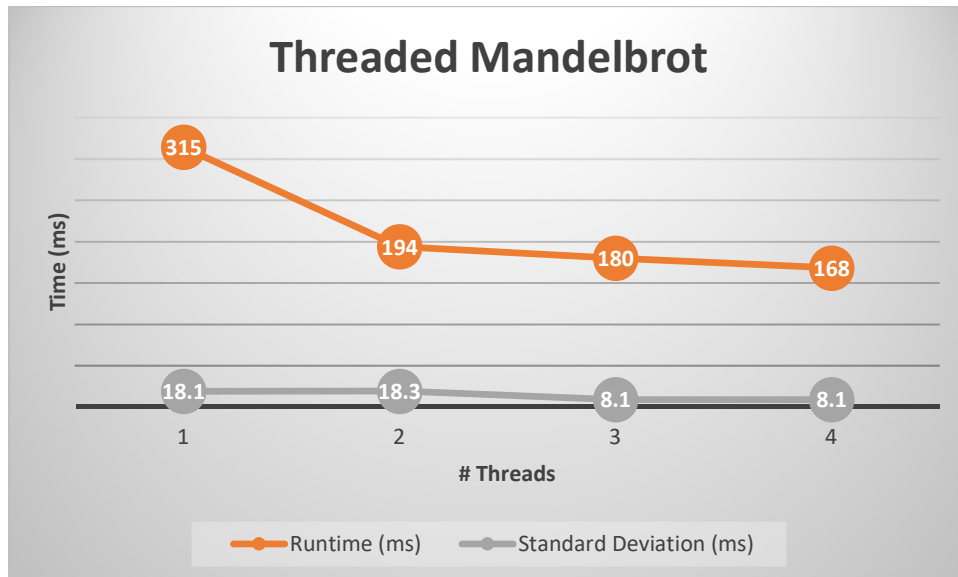


**Threaded Mandelbrot**

For this assignment we had to calculate a Mandelbrot set using various threads. In order to test various results with different numbers of threads I ran the data around 20 times with each number of threads. I tested runtimes from 1 to 4 threads, determining the average runtime as well as the standard deviation. The resulting graph was made measuring these runtimes:



From this graph, we can determine that the runtime rapidly falls when we move from one to more threads. However, this increase becomes less noticeable, yet still existent once we move up to more threads. These increases are described in this other graph:

