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Assignment 2 Part 2 Evaluation

As can be seen in the table below the using more threads is often very beneficial for the compute time. However, as we start to add more threads the added benefit from those extra cores is less and less. Eventually, adding more cores may increase the compute time because of the added overhead.

Num Threads	User Time	System Time	Total
1	110.27s	0.59s	1:51.88s
4	121.29s	1.00s	33.391s
5	140.60s	1.12s	34.221s
6	155.56s	1.30s	31.517s
7	188.69s	1.67s	32.319s
8	208.62s	1.53s	29.464s
10	190.51s	1.89s	33.809s

This solution, regardless of the number of threads, is extremely slow. I have mostly completed another solution using the least-squares but was unable to complete it before the deadline. The other solution can calculate and answer, at least most of the solution, in under 500ms.