

Project 1

The following times were collected from running the three different C programs on the computers found in CSB 527. Those computers run a 64-bit version of CentOS 4.6. It can be seen that the single threaded version ran the fastest and as the number of threads increase, the execution time also increases. Starting from four threads and above, the execution time plateaus and does not worsen significantly. This phenomenon may be due to the fact that running a prime number finder over a series of 8192 values is not memory intensive enough to warrant multithreading. It is possible that the amount of overhead produced by multithreading is slowing down the execution more than multithreading benefits.

Part	B
Threads	Exec Time
1	13.23
2	14.64
3	19.18
4	24.36
5	24.12
6	24.23
7	24.3
8	23.44
9	24.67
10	24.54
11	24.42
12	24.64
13	23.66
14	24.55
15	24.86
16	24.57
32	24.74
64	24.85

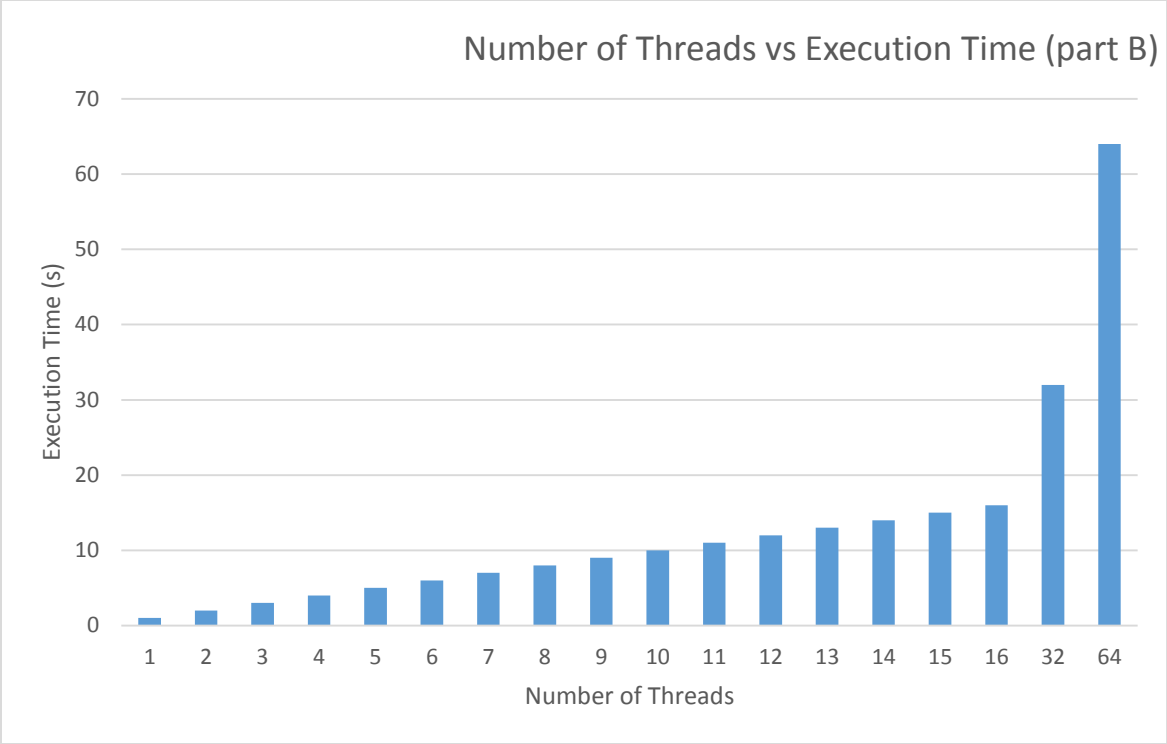


Figure 1

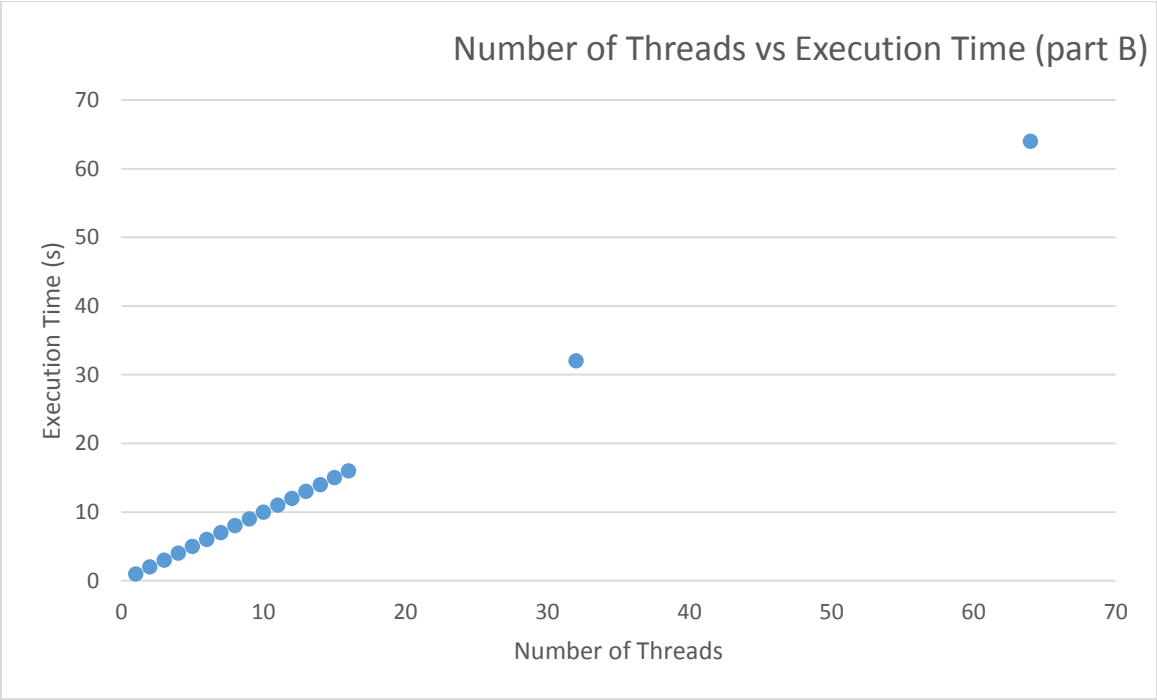


Figure 2