COS 226

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Assignment 1

Number of tests 20

As you can see there is a significant drop off from 1 thread to 2 threads. This shows how concurrent testing is faster. While there was a huge performance increase from 1 to 2, there isn’t a big performance boost from 2 to 3. This shows how the overhead of handling more threads can reduce performance as seen with the steady increase in time taken as the threads are increased.

Funny enough you can see small bumps in performance at odd number of threads. I assume this is because 20 tests are even thus it can’t be spread equally among the threads and thus there will always be left over tests. So, when a test is done, the thread can immediately work on the left-over tests. These forces overlapping tests thus overall increasing performance as seen on the graph.