ECE 2036 Lab 6 Turn-in Sheet

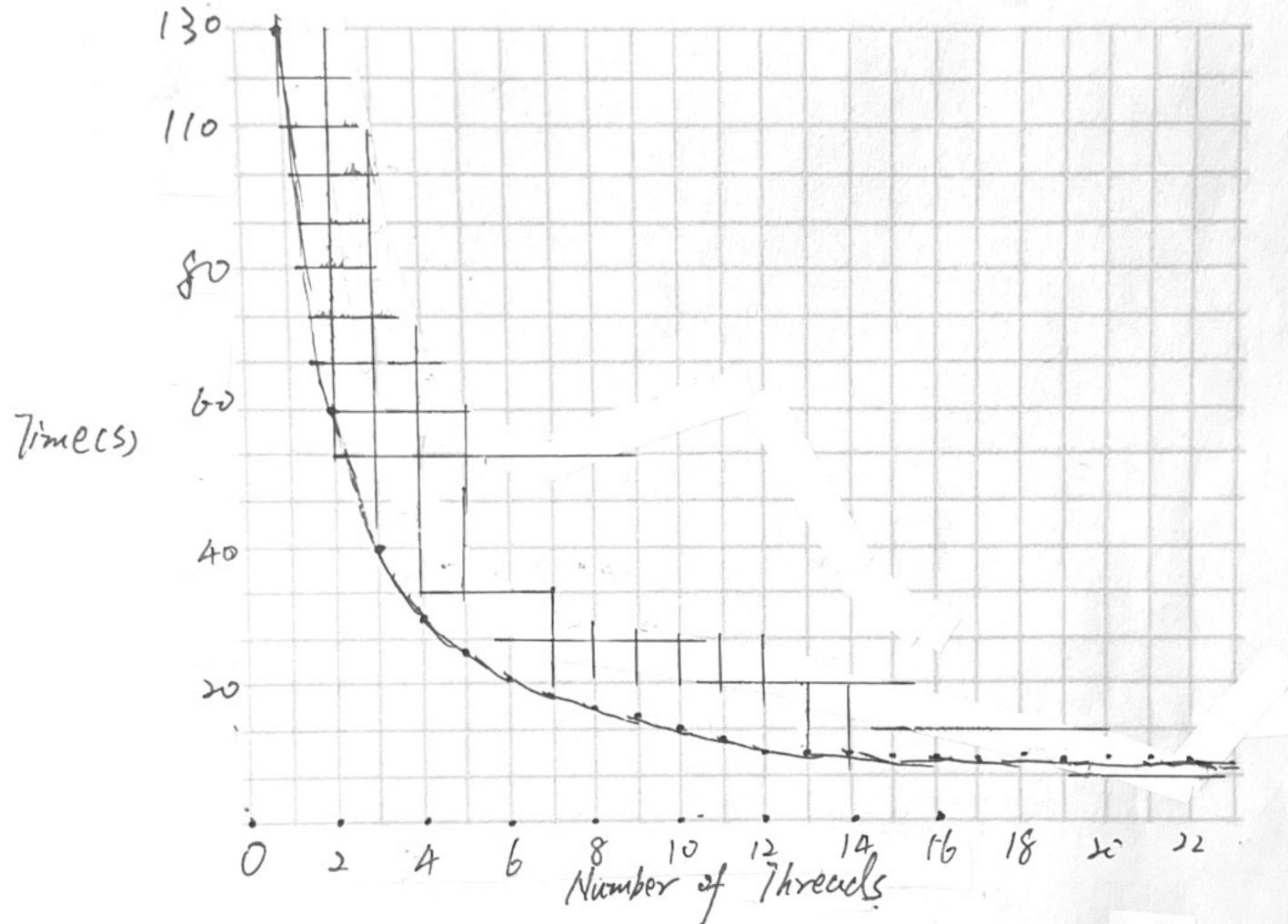
Use your program on coc-ice pace server to answer the following questions:

- How many concurrent threads can the system run: 28. This value is now referred to as the max_num_threads.
- How many microseconds does it take a single thread to run 10,000 calculations: 11954 o
- How many microseconds does it take 2 threads to run 10,000 calculations: 60/04. Assume the number of calculations is evenly distributed among the two threads.

Why is the time from #3 not half the time from #2?

Multiple threads show the memon space. Which means with more threads, there will be more page-toble in memony which will couse over-head. The CPU is denoting more resource into fetching durant from the disk starting with one thread and then working up to the max num threads by adding one more thread at a time, instead.

create a plot below with Number of Threads vs Processing Time (microseconds) for 1 billion calculations. of oefuelly



- How many microseconds does it take 1,000 threads to run 1,000 calculations: 2660 . Assume the number of calculations is evenly distributed among the threads.
- Assuming that the processing time for a single calculation is negligible and using the results from Question #6, how long does it take to create a single thread in microseconds? __ 16-6009