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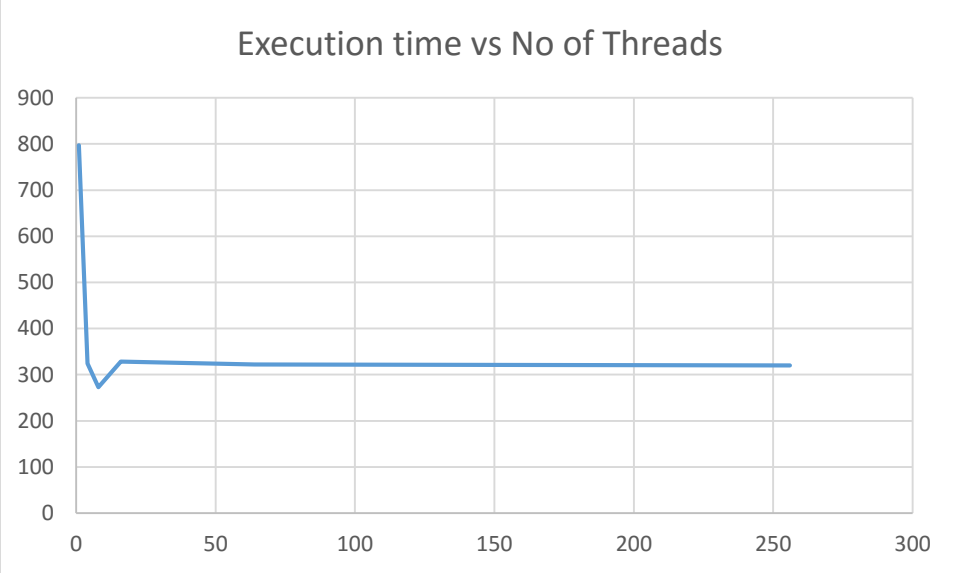
Report:
To compile:
$ make all

Problem 1:
To run: $./p1 [number of threads]

1: 797.235
4:324.052743 sec,
8: 272.767357
16: 328.507655 sec,
64: 322.059608 sec,

256: 320.035304 sec,



After about 4 threads, adding more threads did not improve or hinder performance.

I partitioned the problem into k partitions, where k is 4096/p.
Each thread is responsible for calculating the elements in the rows of C[k] to C[k+1].

problem 2:
To run: $./p2 [number of threads]

4: Execution time = 1.733094
8: 1.420642