

## Computing Lab 1 - Assignment #7

### Output Stats

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#### Implementation 1:

##### Part a:

For two matrices of same size:

10 X 10 : 1 ms

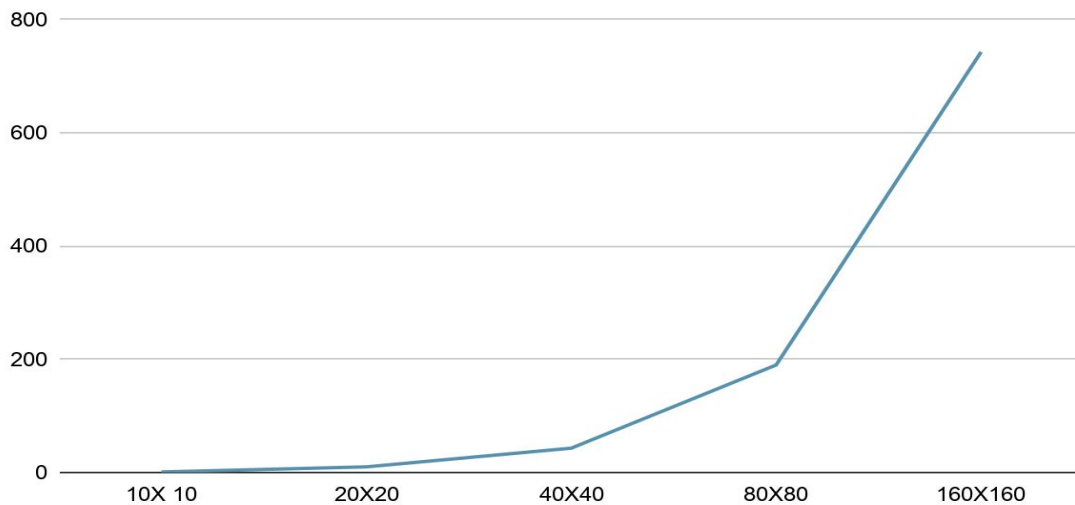
20 X 20 : 10 ms

40 X 40 : 43 ms

80 X 80 : 190 ms

160 X 160 : 792 ms

Time(in ms) v/s matrix size



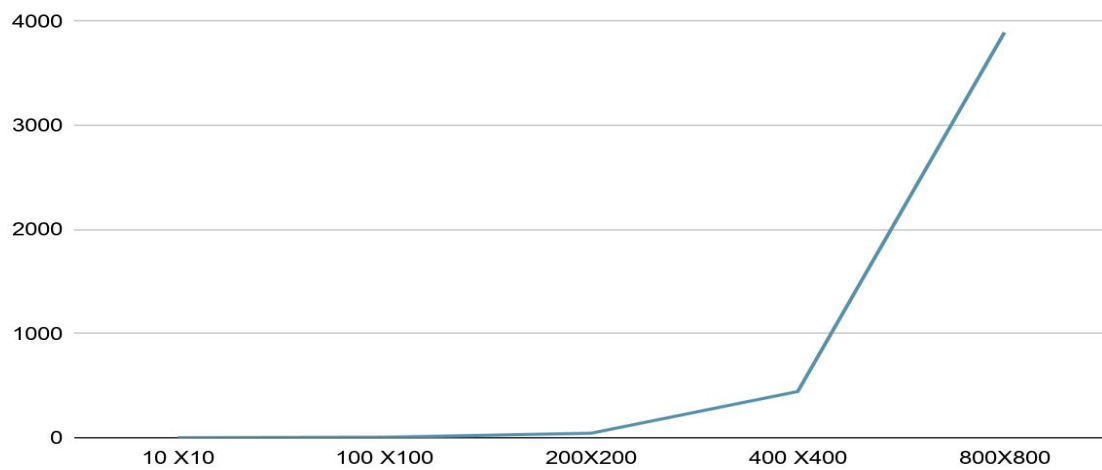
#### Implementation 2: (Core/Threads=4)

##### Part a:

For two matrices of same size:

Size	Time
10 X 10 :	0.001ms
100 X 100 :	5 ms
200 X 200 :	43 ms
400 X 400 :	444ms
800 X 800 :	3894ms

Time(in ms) v/s size



**Part b:**

Time taken as a function of number of worker threads, for multiplying two 10000 x 10000 matrices.

No. of worker thread	Time taken
2	551402 ms
4	503022 ms
16	450137 ms
32	397310 ms
64	369130 ms
128	319588 ms
256	266499 ms

Time(in ms) v/s #worker thread

