CSE 160
PA3 Task1 Report
Saturday, February 10

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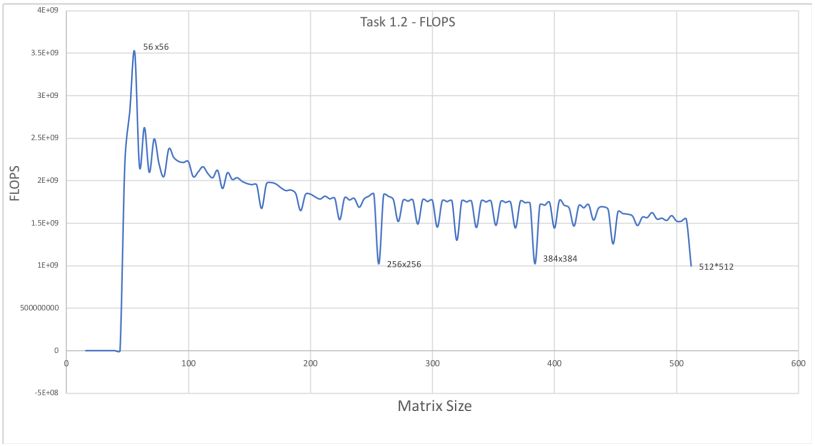
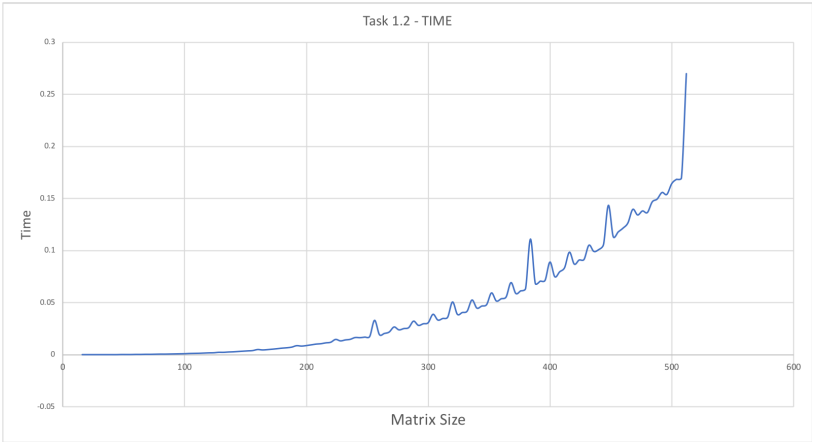
all data were collected using tscc-0-19

1. Matrix Size against FLOPS and TIME: (FLOP estimated as: $2 * N^3$)





Reasoning:

When matrix size is less than 44, mm estimate the computation time to be 0. Therefore, FLOPS of those sizes cannot be estimated in with the given method.

Starting from matrix size 56x56, FLOPS starts to drop gradually to around $2 * 10^9$ op/seconds. My guess is that starting from matrix size 56x56, instead of using caches only, tscc-0-19 begins to use main memory in computation.

The FLOPS drop greatly drops at matrix size 256, 384, 512. My guess it that those are turbulence caused by other computations on tscc-0-19.