

HW3

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1 Pitch your final project

Emailed seperately.

2 Optimizing matrix-matrix multiplication

See fast-sin.cpp.

3 Parallel Scan in OpenMP

The machine I used had:

- Processor: Intel(R) Core(TM) i5-6600 CPU @ 3.30GHz with 4 cores
- g++: gcc version 9.2.0 (MinGW.org GCC Build-20200227-1)

Since there are only 4 cores (logical as well), I only took timings for up to 8 threads. Average timing for sequential: .209s

Threads	1	2	3	4	6	8
Time(s)	.312	.184	.144	.120	.120	.131

As expected performance peaked after reaching 4 threads.