PHW5 Report: Isaiah Lee Used CARC

In this figure, p1 was first, then p2.

The execution time of the optimized vs unoptimized approach showed a difference in performance, where the optimized approach outperformed by around a factor of 1.3. The shared memory means that the kernel does not need to access global memory, and it acts as a cache to lower memory access times, which is why it is faster.

I did not include the module load cuda/11.6.2 into my makefile as I could not get it running. My makefile compiles both .cu programs, but you still need to run the sbatch job.sl file to get the output.