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CS410 – Final Project

Part 1 – Using C++11 Multithread Programming

1 thread: The result is 0.268754

Time Change: 0.078125 s

2 threads: The result is 0.268538

Time Change: 0.9375 s

4 threads: The result is 0.269371

Time Change: 1.15625 s

8 threads: The result is 0.268906

Time Change: 2.54688 s

16 threads: The result is 0.269145

Time Change: 2.54688 s

32 threads: The result is 0.268257

Time Change: 2.5 s

64 threads: The result is 0.268926

Time Change: 2.39062 s

128 threads: The result is 0.268924

Time Change: 2.53125 s

Part 2 – Program Generic parallel numerical integration routine which uses the midpoint rule

MPI

OMP