**CS575 Project 0**

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1. Tell what machine you ran this on

macOS Monterey

Version 12.3.1

MacBook Pro (13-inch, M1, 2020)

Chip: Apple M1

Memory: 8 GB

1. What performance results did you get?





1. What was your 4-thread-to-one-thread speedup?

S = 933.94 / 302.70 = 3.085365

1. If the 4-thread-to-one-thread speedup is less than 4.0, why do you think it is this way?

It's possible that the performance is limited by the system I'm using, such as the CPU, RAM, and other components, as well as the SIZE and NUMTRIES I chose.

1. What was your Parallel Fraction, Fp?

Float Fp = (4. / 3.) \* (1. - (1. / 3.085365)) = 0.901186