**CS575 Project 1**

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**Apr. 15, 2022**

**1. Machine Configuration: OSU ENGR**

**Text

Description automatically generated**

**2. Results**

Graphical user interface

Description automatically generated with low confidence

3. Statistics

The probability with 1000000 trails using 1 thread is: 29.1%

The probability with 1000000 trails using 2 threads is: 29.06%

The probability with 1000000 trails using 4 threads is: 29.05%

The probability with 1000000 trails using 8 threads is: 29.04%

The actual probability is 29.06%.

8 threads, 1000000 trials:

Speedup = 120.43 / 15.37 = 7.84

F = 8/7 \* (1-1/7.84) = 0.9971