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CSCE689 – HW3

CODE:

<https://github.com/mdemore2/AFIT-CSCE689-HW3-S>

QUESTIONS:

1. Using a multi-core machine (ideally 4 or more cores), graph the speed of the algorithm from single thread to four times the number of cores (4 core = 4x4 = 16 threads). Explain where performance levels out and why. Does it continue improving past the number of cores? Explain.

Be sure to label your graph, your axis, the scale of each axis, and the number of core on the machine you were using.

**Test Specs:** CPU: Intel i5-4690K, 4 cores

Primes: 2147483648

2. Run your algorithm with the number of threads equal to the number of cores. Do this at least 5 times and record the performance. Was the performance the same or did it vary? Explain.