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Project #2

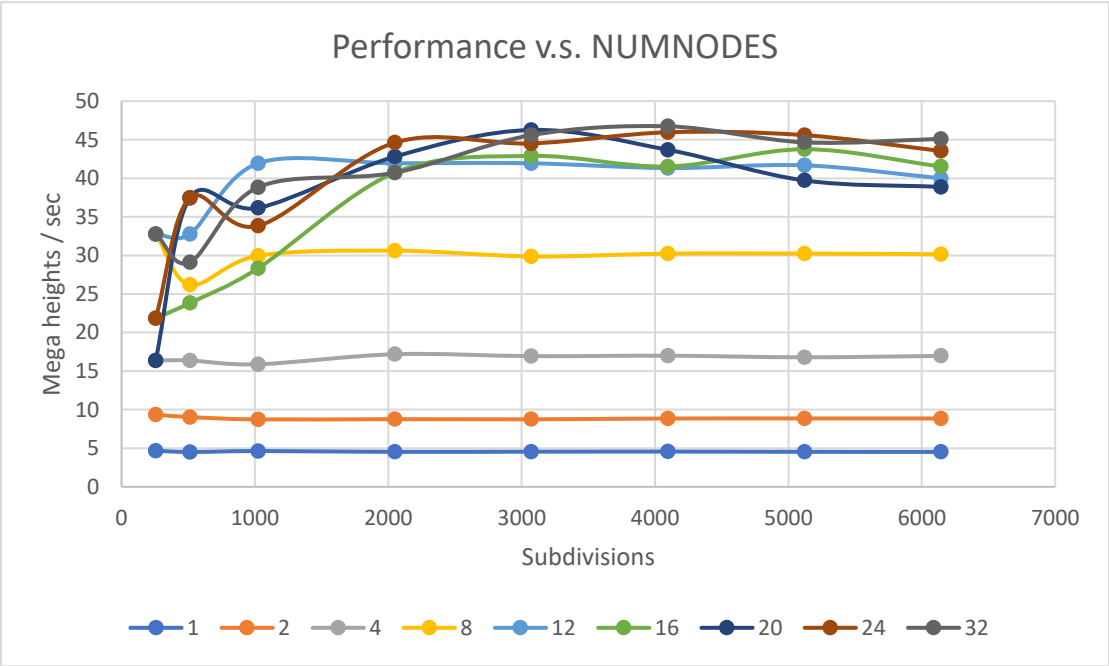
# Numeric Integration with OpenMP Reduction

1. I ran my program on Windows 10 but performed in bash.

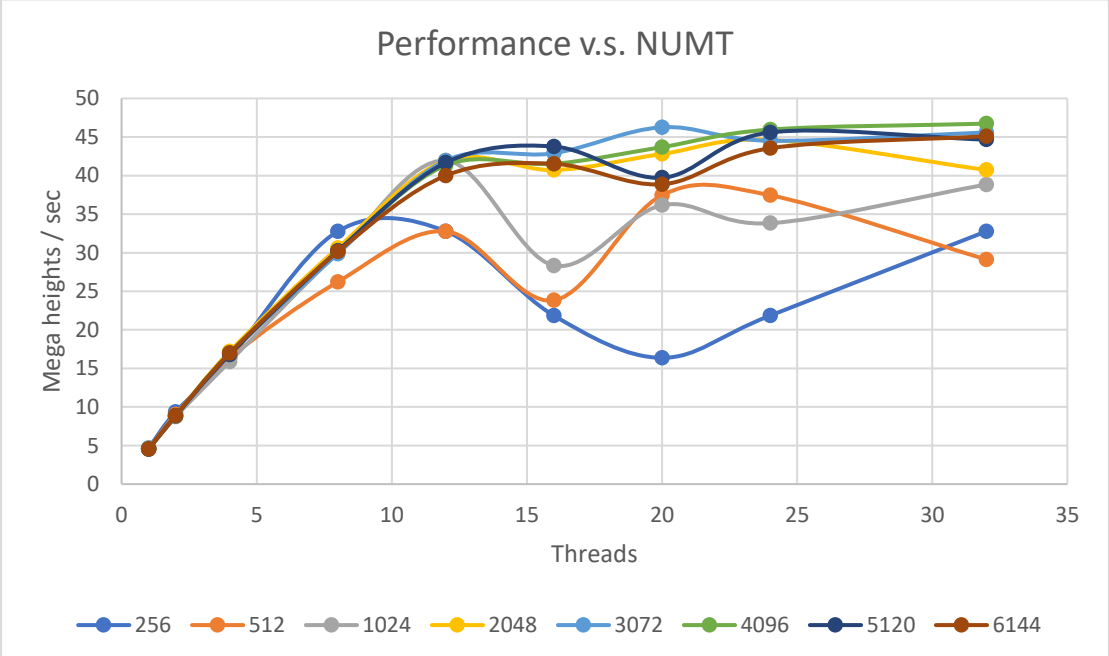
2. From the observation of each run, the volume is 3.8

3.

1.




2.




4. When using more threads to compute, the performance is going up. In addition, if

there are more than 12 threads, the performance is increased when there are more subdivisions.

5. More threads can process many tasks concurrently.

6. I use the performance of 4096 subdivisions running with 32 threads comparing with 1 thread as my speed-up. Fp = 0.93

7. 1 / (1 – 0.93) = 14.286