

CS 441 A2

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February 22, 2016

	Asteroids Only	Asteroids + Image	Full Code
Sequential	24990.2 ns	25610 ns	27300 ns
OpenMP	3930.41 ns	4575.33 ns	5228.27 ns
CUDA			

In OpenMP I optimized by making a array of closest approaches that way the code did not need to access the same data item from each of its open mp threads. This resulted in the total time coming down from 8244ns to 5229ns.

I've included my CUDA code but whenever I try running it netrun has problems. See screenshot.

closest approach: 1.34645e+06