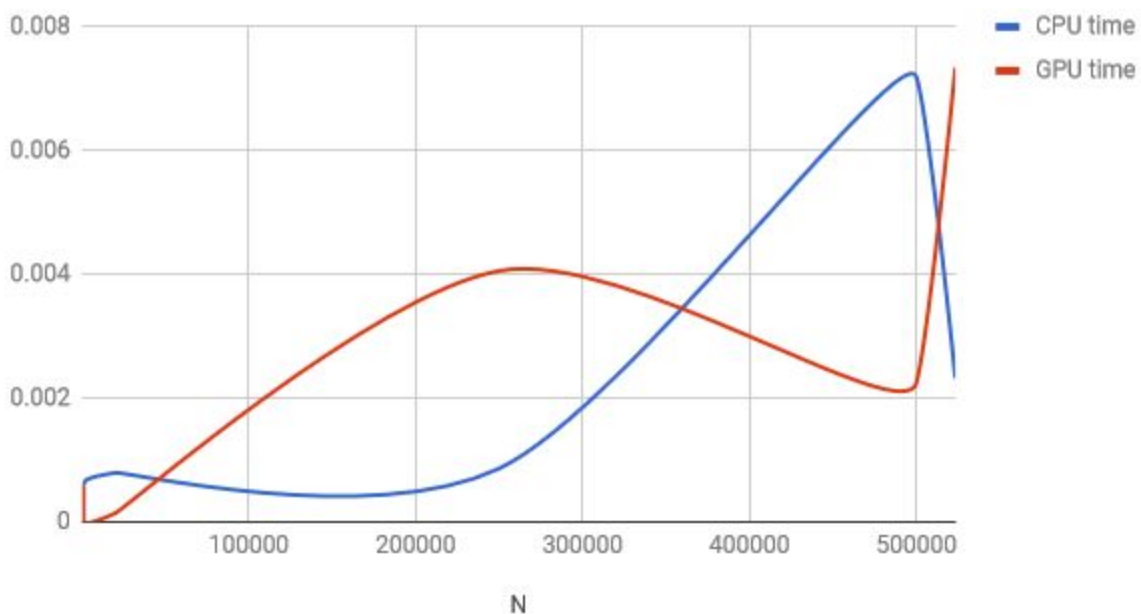


In this assignment, we test the performance of CPU vs GPU.

N	256	511	800	1,024	20,000	250,000	500,000	523,216
CPU time	.000001	.000002	.000003	.000616	.000793	.000862	.007188	.002327
GPU time	.000489	.000527	.000537	.000006	.000139	.004056	.002252	.007337

CPU time and GPU time



We notice that the performance for both CPU and GPU vary. We can only test up to a value of N equal to 523216. After that, we get a segfault.

We notice that for very big values, the CPU time drops. The GPU beats the CPU for mid range values. The reason GPU does not beat the CPU all the time is because the GPU of the aci-i is not very powerful and can get caught up to by the CPU.