Speedup Graph

(X axis: Number of Primes found, 0 to 100000; Y axis: Speedup, 0.8 to 1.8)

Legend: 1 core, 2 cores, 4 cores

For the speed up graph we decided to measure both the serial and parallel times to calculate n primes. We just printed these times for each power of 10 found. Then for the graph we used the equation found in lecture 18 slide 55 to find speedup by calculating serial/parallel time. As you can see the 1 core starts with a much higher value than the 2 or 4 cores, but eventually they all close down to just below 1. The 4 core closes down the quickest, shortly followed by the 2 core, with the 1 core program being the slowest.