PROJECT 1

CS342 - OPERATING SYSTEMS

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PART C: EXPERIMENTS

A) For just 1 process, running time of my multi-process application is: 0.000588 milliseconds. I had 16 inputs in my first try(with 1 process). My running time with 1 thread was:0.000277milliseconds.

Secondly, i made two files with 8 inputs each. Then, my running time became: 0.000621 milliseconds.(with 2 processes). My running time with 2 threads was: 0.000400milliseconds

Thirdly, I made the same split, then my running time became: 0.000984 milliseconds(with 4 processes). My running time with 4 threads was:0.000719 milliseconds.

Lastly, my running time with 8 processes was: 0.001903 milliseconds. My running time with 8 threads was: 0.001108milliseconds

B) For the same number of process/threads, thistogram was faster than phistogram. Increasing number of threads increased the duration of the program, for the same number of thread, when input size went up, running time became longer. Which makes sense, because that much of threads exhaust the program to make more system calls to create/destroy threads.