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CS214 Assignment02 Threads and Processes due November 22, 2016 @ 11:55PM

Timetest

For this part of the project we use a test.txt file that is 500bytes long – 500 characters.

The results are as follows:

number of:	thread timing	process timing
1	3.213	13.945
5	0.576	20.437
10	1.085	36.412
15	3.727	105.763
25	0.924	57.68
50	1.244	158.63
75	1.99	191.557
100	4.802	672.168

Note that from these results that threading is a lot quicker than forking processes. We also notice that with processes, the time gradually increased (except for a dip at 25). On the contrary when we look at threading, the times fluctuate but remain under 5ms. It is more steady.

Something interesting we could look at is if we increased the number of threads if it will continue to fluctuate or if it will increase.

The next step in analysis would be to test this process 100 more times to get an average to have a more accurate portrayal of the timing between threads and processes. Unfortunately, we ran out of time.

However, with the given information we predict that a graph between the two would be a constant(thread) v. linear(process).