Assignment 2 Report

What problems you encountered completing the assignment and how you overcame them

I was initially getting multiple prints of the time elapsed, but then I realized that I put the timer code inside the parallel section of my code.

Any problems you weren't able to overcome or any bugs still left in the program

My program slows down given the same size matrix from 4 to 8 threads. I’m assuming this is due to the overhead from synchronization.

About how long it took you to complete the assignment

The assignment took about 5-6 hours including time spent familiarizing myself with emacs and reading documentation.

Performance measurements (given in seconds) for 1, 2, 4, and 8 threads

1 Thread: 0.6096 seconds

2 Threads: 0.7699 seconds

4 Threads: 0.4217 seconds

8 Threads: 0.5796 seconds

A short analysis of why the program behaves as it does with an increasing number of threads:

Since the regex is limited, there is not much of a discernible difference between thread times.

Any observations or comments you had while doing the assignment

I am still not sure why the program stalls with re.IGNORECASE added.

Output from the cpuInfoDump.sh program:

model name : Intel(R) Core(TM) i7-8650U CPU @ 1.90GHz

4 36 216