Systems Programming
Coursework 2a

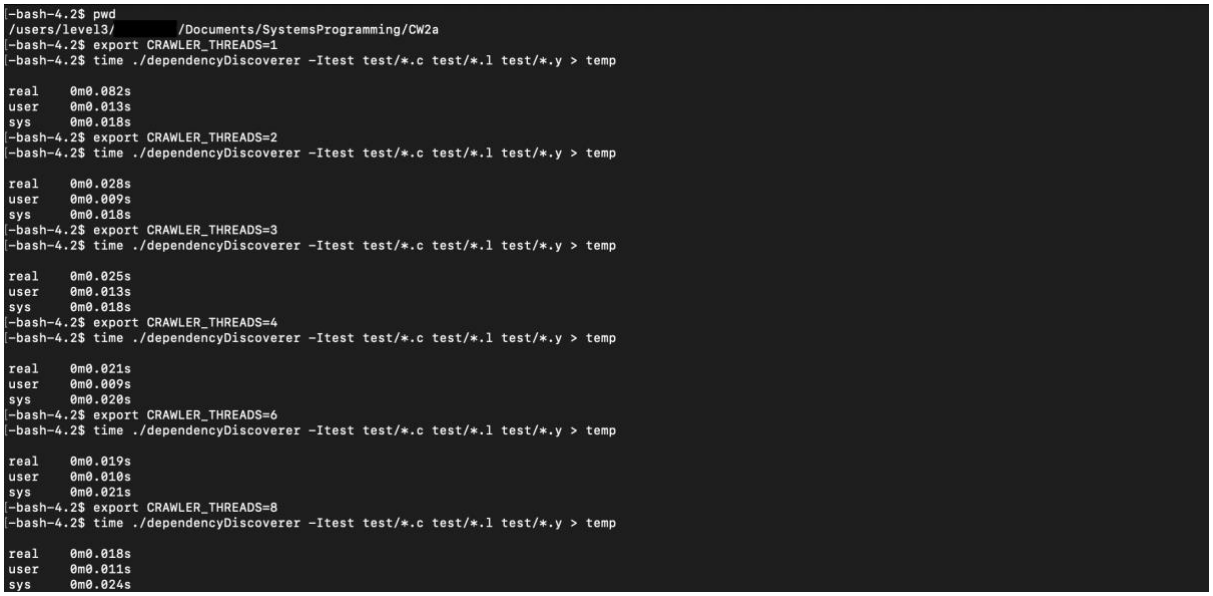
1.

My code works as is expected and is implemented as a multithreaded solution. As expected there is no output when running:

“../dependencyDiscoverer *.y *.l *.c | diff – output”

2.

3.



CRAWLER_ THREADS	1	2	3	4	6	8
	Elapsed Time	Elapsed Time	Elapsed Time	Elapsed Time	Elapsed Time	Elapsed Time
Execution 1	0.053s	0.030s	0.024s	0.021s	0.019s	0.019s
Execution 2	0.050s	0.030s	0.025s	0.022s	0.020s	0.019s
Execution 3	0.053s	0.031s	0.024s	0.021s	0.020s	0.019s
Median	0.053s	0.030s	0.024s	0.021s	0.020s	0.019s

From this experiment we can conclude that the performance gains fall drastically when having more than 4 threads this is due to the amount of time it take to create the threads which negates the performance gain from running it with threads.