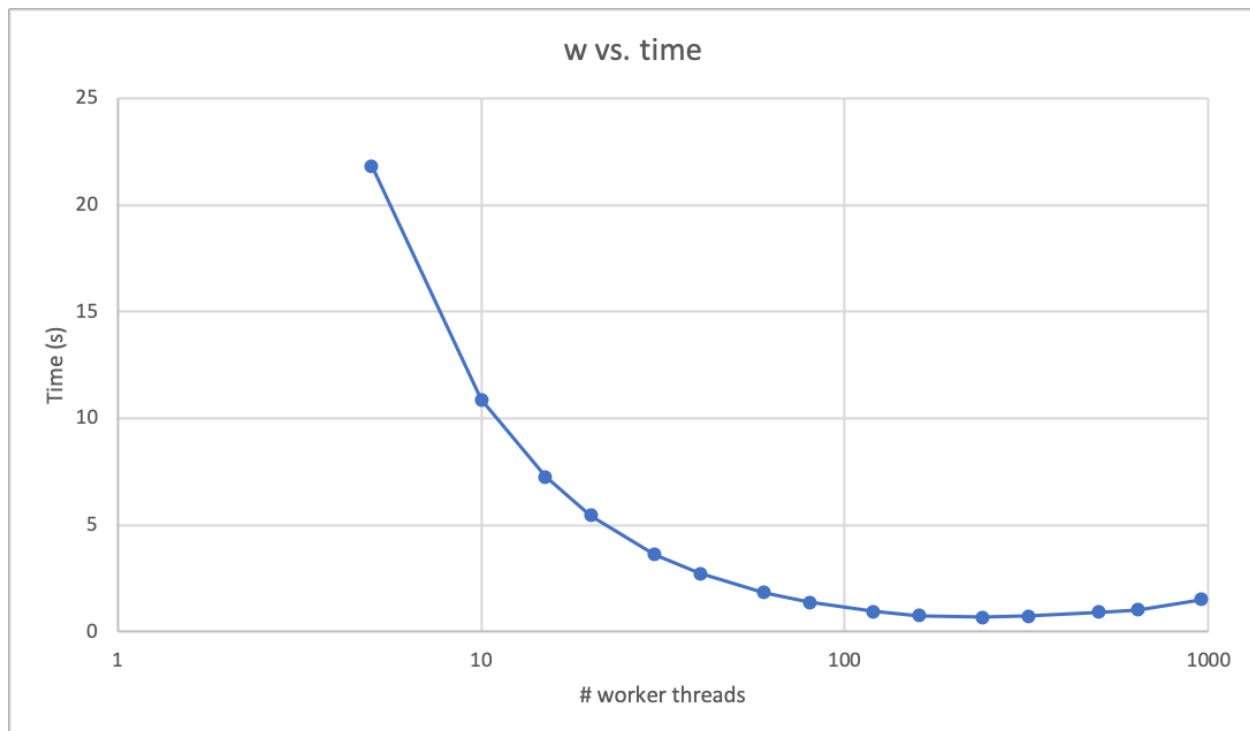Sean Patlan

CSCE 313-508

Programming Assignment #7 Report

To perform the first PA 7 test, I varied the number of workers threads while keeping the buffer size at 300 and the number of requests at 10000. This test performed very similarly to how it performed in previous PAs. There is a steep drop off between 5 and 100 worker threads, but after that it levels out, actually increasing a little bit once the number of request threads approaches 1000. A graph of the results of this PA 7 test is shown below:

In the second test, I varied the capacity of the buffer while keeping the number of worker threads at 200 and the number of requests at 10000. This test showed a much more direct correlation between the capacity of the buffer and the time it took for the program to complete than in previous tests. In many other assignments, the line was much more sporadic and not as straight. In this PA, there was a clear drop between 5 and 100, but when the buffer capacity is greater than 100, the slope of the graph becomes very close to 0. A graph of the PA 7 results is shown below:

b vs. time