

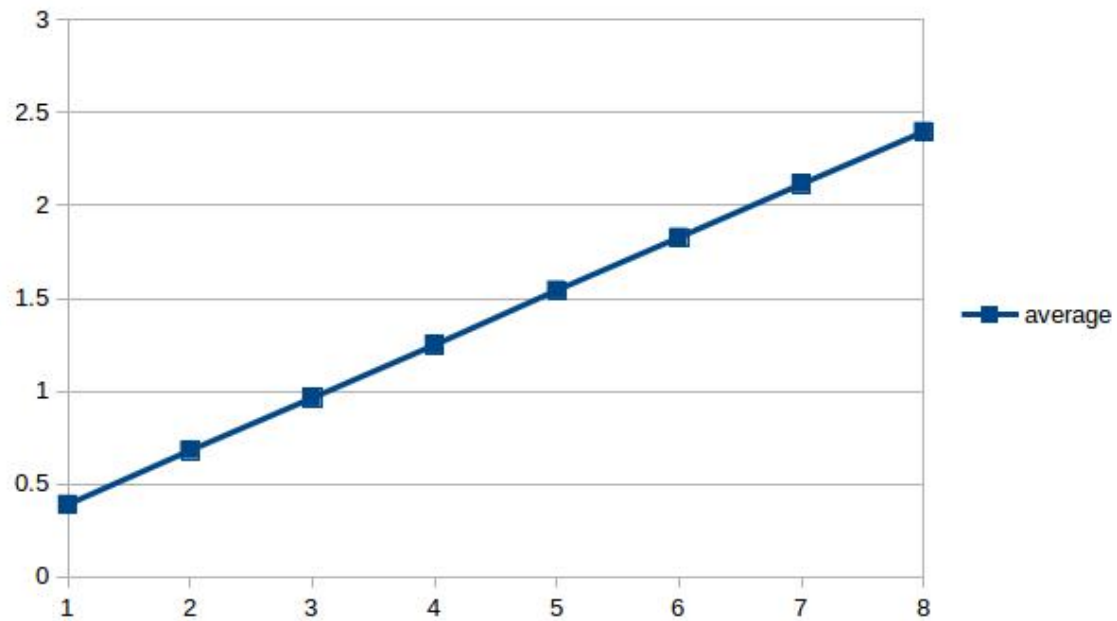
CS3100 - Producer-Consumer

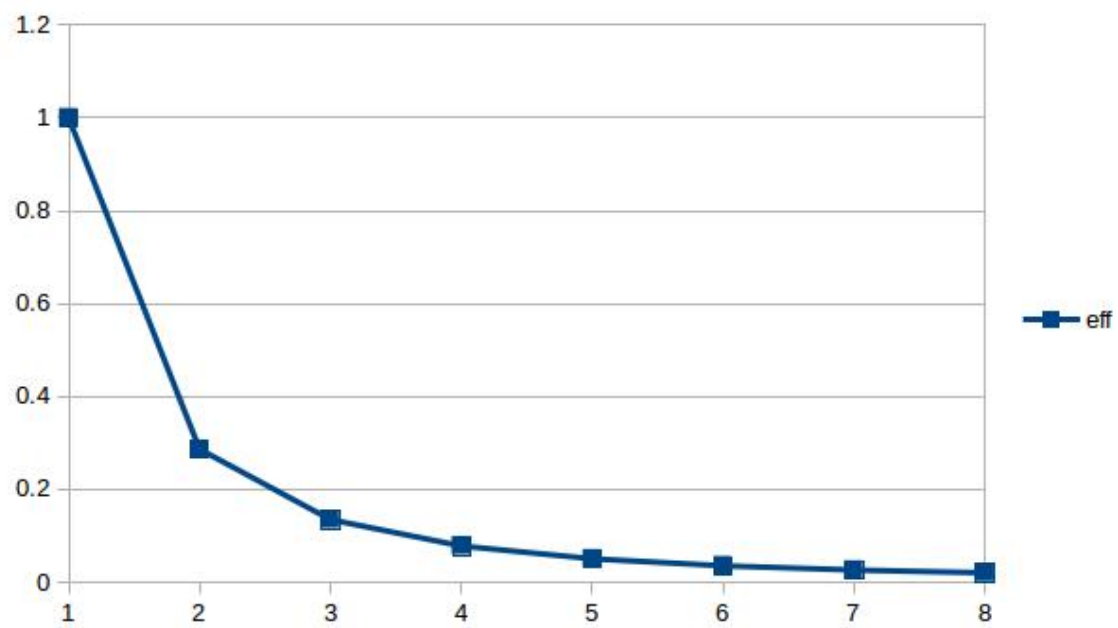
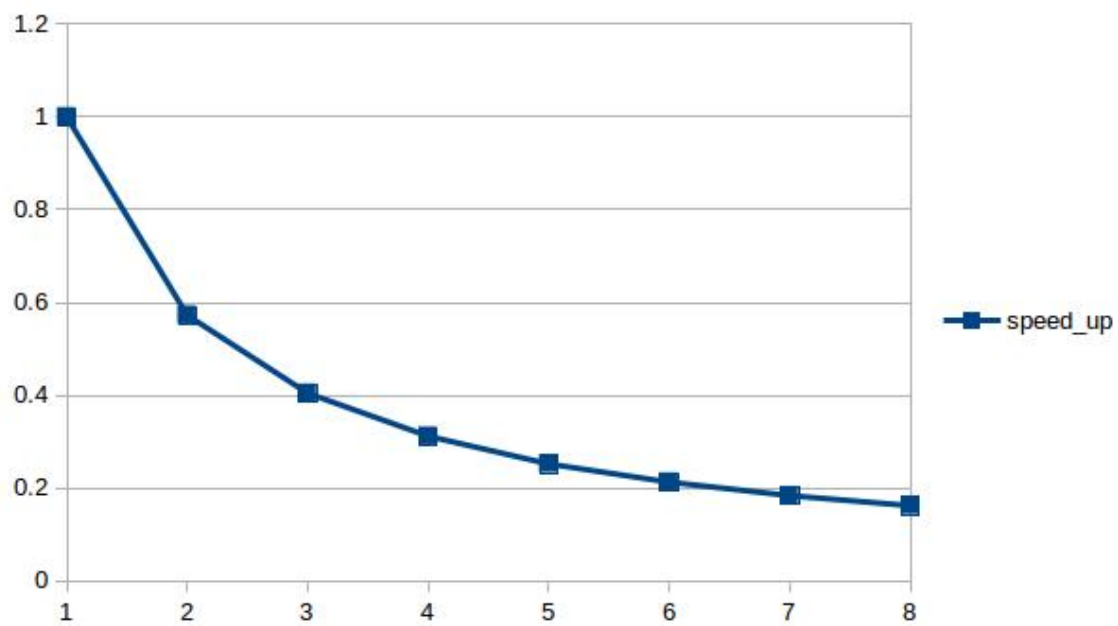
Dustin Homan

February 8, 2016

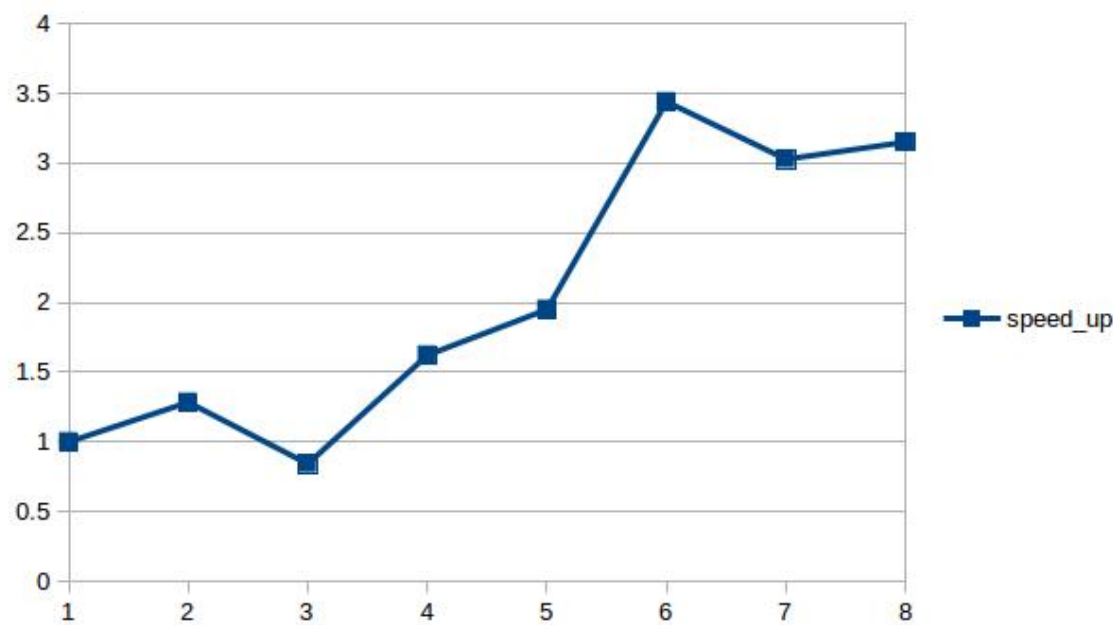
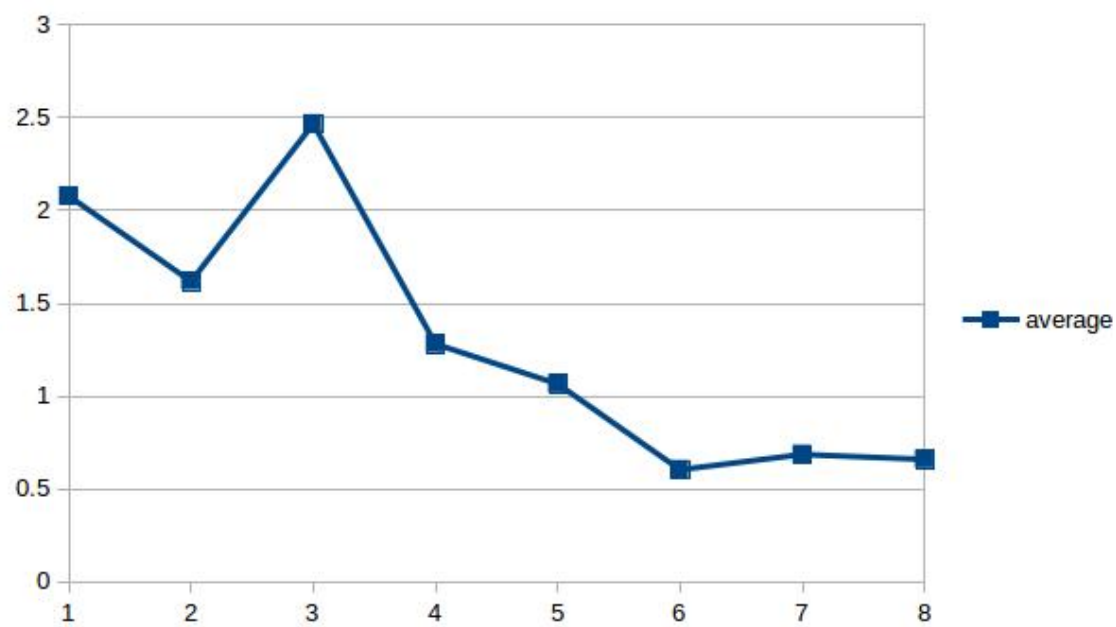
Background

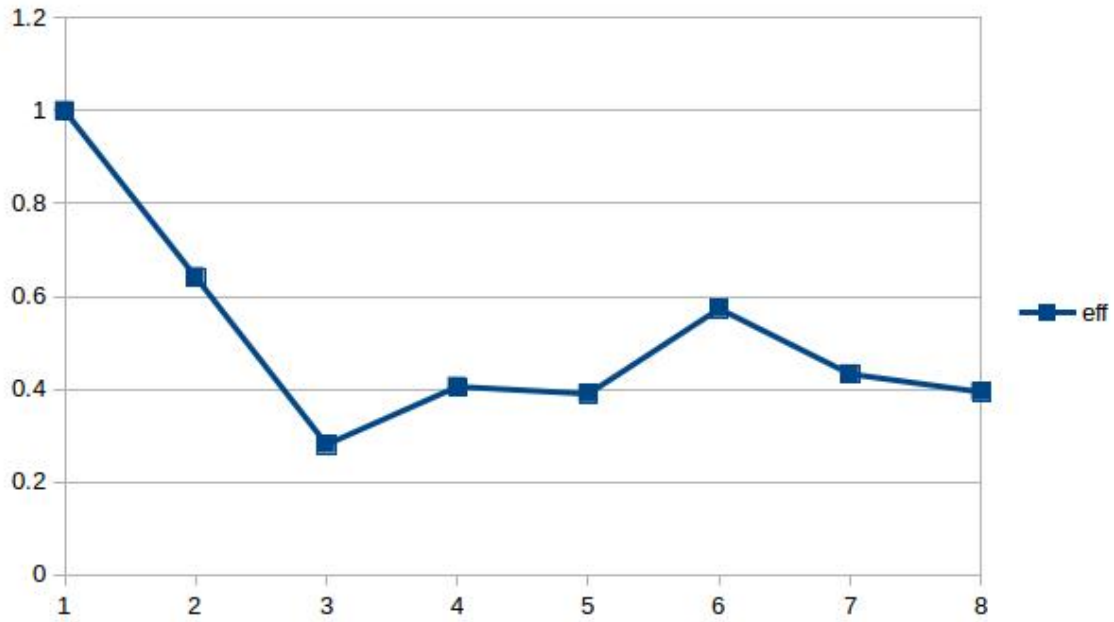
Search Timing Results





Sort Timing Results





Analysis

From the data for the parallel search algorithm it is apparent my implementation for search is not optimal. As the number of threads increased so did the average time. Thus speed up and efficiency dropped.

The data from the quicksort algorithm shows that as we increase the number of threads we get a better speed-up. However we also get worse efficiency. The efficiency is better than it would be if I did not use the producer-consumer model.