

Homework 3 - Scheduling Algorithms - Darsh Lin, Aaron Pollack

Wait time comparison:

The wait time is shortest (55.4) on Shortest Job First compared to (93.050) for First Come First Serve and (87.050) for Round Robin when using a time quantum of 1. It makes sense that this algorithm has the average shortest wait time since it is optimizing for more jobs getting done in a smaller time frame by doing the jobs with the shortest burst first. Since round robin is sharing time more evenly, it is also able to get some shorter processes through first. First Come First Serve does not optimize to get any jobs through and simply executes the job in the order that it arrived, so it makes sense that some jobs will wait a long time for jobs with longer burst to finish. Since all jobs came in at the same time, it gives an advantage to the Shortest Job First as we can sort the jobs one time and not have to maintain the overhead.

Round Robin Graph:

