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Project 4 Part C

Analysis

The average times for each of the child processes for the perf program for the turnaround time is 181.09 and the average waiting time is 173.73. The round-robin scheduling behavior from parts A and B influences the timing because there is a large waiting time. From the ps, I can see that it is starvation free since the processes got a share of the CPU. From running the perf program multiple times, I could see that the round-robin is preemptive and that the assigned process only had a fixed time slice since it did not take long for the process to finish.

Improvement

One way I can think of improving upon the scheduling algorithm would be to increase the time slice so that the processes have a chance of finishing sooner, rather than having each process wait for each other, increasing the waiting time. If the time slice were longer and the completion time decreases, the turnaround time and waiting time would decrease. A lower turnaround time and lower waiting time would mean a smaller difference between the completion time and arrival time. A lower waiting time would mean that the processes would spend less time waiting for the other processes in order to finish running.