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B-TECH CSE (2ND YR)

OPERATING SYSTEM ASSIGNMENT

GitHub link: <https://github.com/SHAIK-MABASHA/OS-assignment-test3>

6. Suppose that the subsequent processes arrive for execution at the days indicated. Each process will run the listed amount of your time. In answering the questions, use Non-preemptive scheduling and base all decisions on the knowledge you've got at the time the option to take.

Process time of arrival Burst Time

P1 0.0 8

P2 0.4 4

P3 1.0 1

A. what's the typical turnaround for these processes with the FirstComeFirstSErve(FCFS) scheduling algorithm?

FCFS Gantt Chart

Proc: 1 2 3

|---------------|-------|----|

Time: 0 8 12 13

Avg. Turnaround Time(TT): ( (8-0)+(12-0.4)+(13-1.0) ) / 3 = 10.53

B. what's the typical turnaround for these processes with the ShortestJobFirst(SJF) scheduling algorithm?

SJF Gantt Chart

Proc: 1 3 2

|---------------|--|--------|

Time: 0 8 9 13

Avg. Turnaround Time(TT): ( (8-0)+(13-0.4)+(9-1.0) ) / 3 = 9.53

C. Compute what avg. turnaround time(TT) are going to be if the CPU is left idle for the primary 1 unit then ShortestJobFirst(SJF) scheduling is employed. Remember that processes P1 , P2 have been waiting during this idle time, so their waiting time may increase.

Proc: x 3 2 1

|--|--|---------|-----------------|

Time: 0 1 2 6 14

Avg. turnaround time(TT) = ( (14-0)+(6-0.4)+(2-1.0) ) / 3 = 6.87