FIFO vs Default

| | FIFO | | Default | |
|---|---|---|---|---|
| | Turnaround time | Response Time | Turnaround time | Response Time |
| uniq -c README | 11 | 11 | 11 | 11 |
| find / -inum 20 | 13 | 13 | 14 | 14 |
| cat README | 10 | 10 | 11 | 11 |
| ls -a | 29 | 29 | 32 | 32 |

Avg_turnaround_time_FIFO = 63/4 = 15.75

Avg_response_time_FIFO = 63/4 = 15.75

Avg_turnaround_time_Default = 68/4 = 17

Avg_response_time_Default = 68/4 = 17

PRIORITY vs Default

| | PRIORITY | | Default | |
|---|---|---|---|---|
| | Turnaround time | Response Time | Turnaround time | Response Time |
| uniq -c README | 11 | 11 | 11 | 11 |
| find / -inum 20 | 12 | 12 | 14 | 14 |
| cat README | 13 | 13 | 11 | 11 |
| ls -a | 21 | 21 | 32 | 32 |

Avg_turnaround_time_PRIORITY = 57/4 = 14.25

Avg_response_time_ PRIORITY = 57/4 = 14.25

Avg_turnaround_time_Default = 68/4 = 17

Avg_response_time_Default = 68/4 = 17

FIFO vs PRIORITY

| | FIFO | | PRIORITY | |
|---|---|---|---|---|
| | Turnaround time | Response Time | Turnaround time | Response Time |
| uniq -c README | 11 | 11 | 11 | 11 |
| find / -inum 20 | 13 | 13 | 12 | 12 |
| cat README | 10 | 10 | 13 | 13 |
| ls -a | 29 | 29 | 21 | 21 |

Avg_turnaround_time_FIFO = 63/4 = 15.75

Avg_response_time_FIFO = 63/4 = 15.75

Avg_turnaround_time_PRIORITY = 57/4 = 14.25

Avg_response_time_ PRIORITY = 57/4 = 14.25

- PRIORITY scheduler works better than FIFO regarding both turnaround time and response time. The average turnaround time and response time for FIFO is 15.75 and for PRIORITY is 14.25.
- We think the priority is better as it schedules the high-priority jobs first which leads to better response time, turnaround time, and effective resource usage in time-sensitive circumstances.