

FCFS - First Come First Serve (non-preemptive)



➔ Run jobs in order that they arrive (no interrupt)

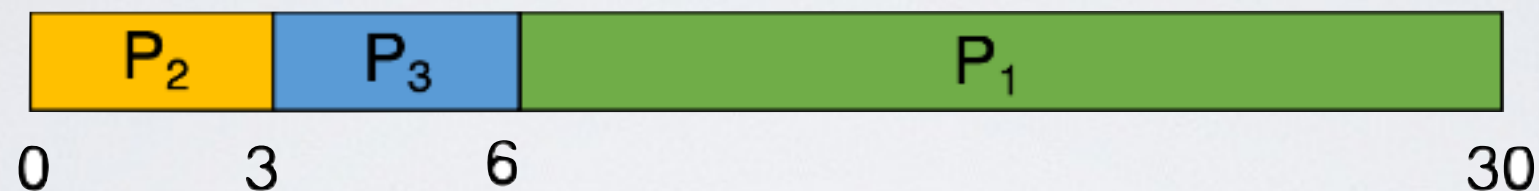
| | |
|--------------|--------------------------------------------------|
| Throughput | $3 / 30 = 0.1 \text{ jobs/sec}$ |
| Turnaround | $(24 + 27 + 30) / 3 = 27 \text{ sec in average}$ |
| Waiting Time | $(0 + 24 + 27) / 3 = 17 \text{ sec in average}$ |

© **Problem : convoy effect**

all other threads wait for the one big thread to release the CPU

SJF - Shortest-Job-First (non-preemptive)

➔ Choose the thread with the shortest processing time



| | |
|--------------|----------------------------------------|
| Throughput | $3 / 30 = 0.1$ jobs/sec |
| Turnaround | $(30 + 3 + 6) / 3 = 13$ sec in average |
| Waiting Time | $(0 + 3 + 6) / 3 = 3$ sec in average |

⦿ **Problem :** we need to know processing time in advance