

Estimate CPU Burst

Exponential Moving Avg.

τ_n : estimate at time n

t_n : actual burst at time n

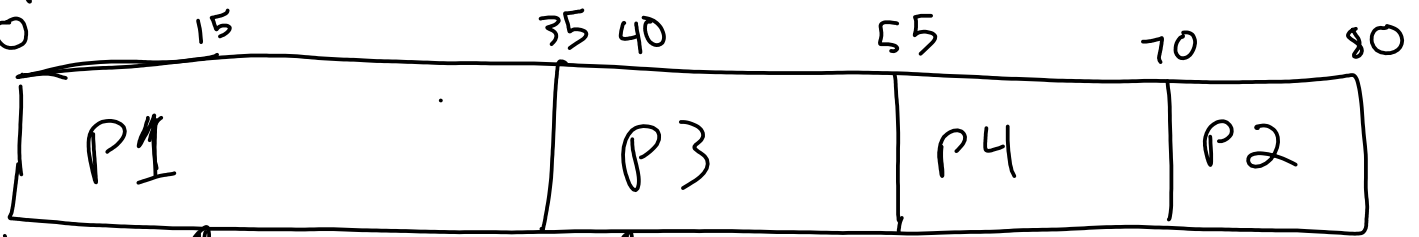
$$\tau_{n+1} = \alpha \cdot t_n + (1 - \alpha) \cdot \tau_n$$

$$0 \leq \alpha \leq 1$$

process	cpu Burst	Arrival	Priority
P1	35	0	Med.
P2	10	0	Low
P3	20	15	High
P4	15	40	High

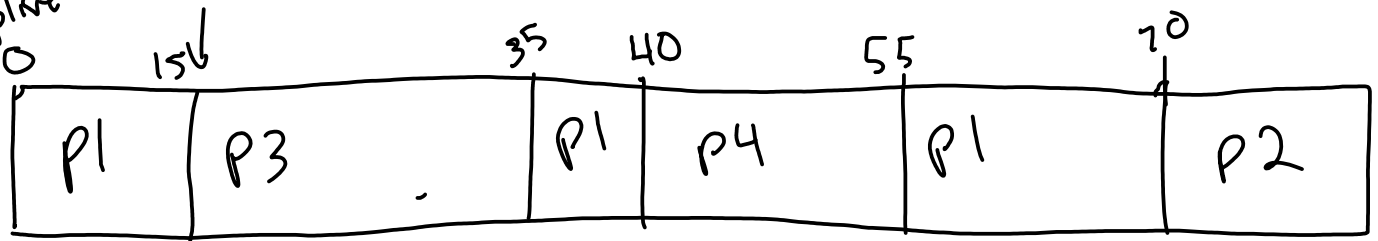
Priority Scheduling

non-preemptive



Avg wait 23.75

preemptive



Avg wait 26.5

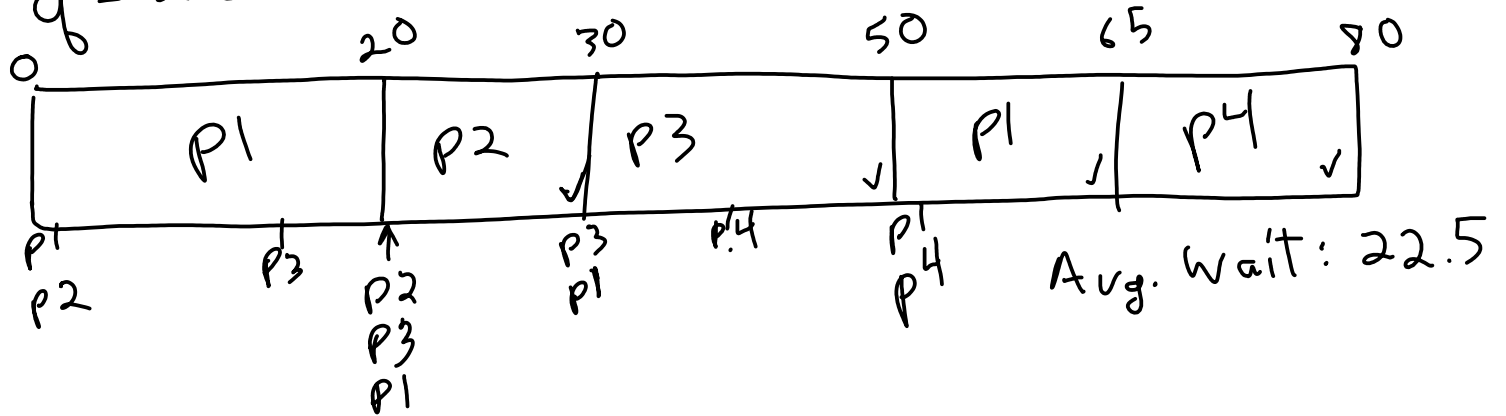
Low priority - starvation

Priority Inversion:
 low priority holds resource
 high priority needs " "

R
R

Round Robin - every ready process gets an equal time slice (quantum)

$q = 20$



$q = 5$

