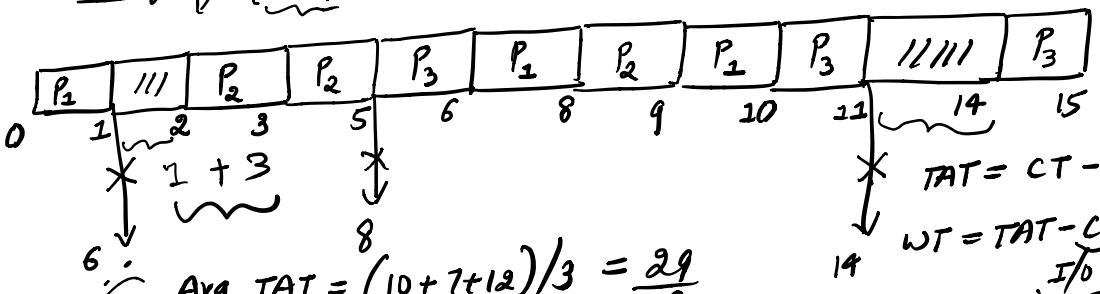
PREEMPTIVE PRIORITY SCHEDULING WITH CPU AND IO BURST

	AT	Priority	CPU BT	I/O BT	CPU BT	ST	CT	TAT	WT	RT
P_1	0	2	1	5	4	0	10	10	1	0
P_2	2	3 H	3 2	3	1	2	9	7	0	0
P_3	3	1 L	2 1	5	1	5	15	12	6	2

Ready : P_1 P_2 P_3 P_1 P_2 P_3

I/O : P_1 P_2 P_3



TAT = CT - AT

WT = TAT - CPU BT - I/O BT

RT = ST - AT

Avg TAT = $(10+7+12)/3 = \frac{29}{3}$

Avg WT = $(1+6)/3 = \frac{7}{3}$

Avg RT = $2/3$

CPU utilization = $\frac{15-4}{15} \times 100 = \frac{11}{15} \times 100$

$= \frac{4}{15} \times 100$

Max(CT) - Min(AT)

Throughput = $\frac{3}{15-0} = \frac{1}{5}$