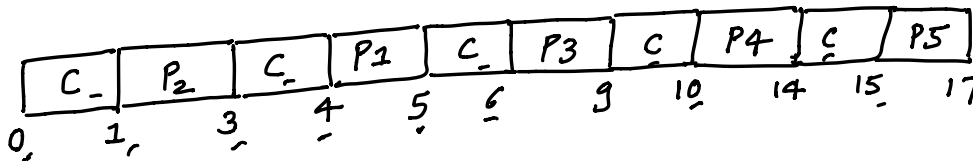


## FCFS EXAMPLE WITH CONTEXT SWITCH OVERHEAD

		AT	BT	ST	CT	TAT	WT	RT	
x	P1	2	1	4	5	3	2	2	Avg TAT = $(3+3+7+11+13)/5 = \frac{37}{5}$
→	P2	0	2	1	3	3	1	1	Avg WT = $(2+1+4+2+11)/5 = 5$
x	P3	2	3	6	9	7	4	4	Avg RT = $(2+1+4+7+11)/5 = 5$
x	P4	3	4	10	14	11	7	7	
x	P5	4	2	15	17	13	11	11	

Assume there is no I/O and  $\rightarrow$  CPU utilization =  $\frac{12}{17} \times 100$

context switch overhead = 1 unit  $\rightarrow$  Throughput =  $\frac{5}{17-0} = \frac{5}{17}$  proc/unit



$$\left\{ \begin{array}{l} TAT = CT - AT \\ WT = TAT - \text{CPU Burst time} - \text{I/O Burst Time} \\ RT = ST - AT \end{array} \right.$$

$\frac{\text{Max}(CT) - \text{Min}(AT)}{}$