Non-Preemptive

I first come first Serve 8

Proces S	AT	BT	WT 7	AT (CT.AT)
P,	0	6	0	6-0 - 6
P2	2	8	6-2-4	
93	4	7	14-4:10	21-4=17
Pu	5	3	21-5:16	24-5 - 19

Pi	P2		93		PH
0 6		14	2)	24
Arg wailing	-		4+10+16		
AM TAT :		6+1	2+17+19	1	54 B.5

**

过名

10

27 Shortest Job First (Non-Premptire)

CT WT BT Process AT 0 6-0 = 6 6 P. 0 6

P2 2 8 24 16-2:14 24-2 = 22

P3 4 7 16 9-4=5 16-4=12 9 6-5 = 1 9-5 = 4 3 P4 5

SJF = P4 -> P, -> P3 -> P2

P3 P4

Avg. $\omega T = \frac{0+14+5+1}{4} = \frac{20}{4} = \frac{5}{4}$ Avg. TAT = 6+22+12+4 = 11

8. Longest Job First (Non- Preemptive) Process AT BT CT WT 6-0=6 6 6 0 62=4 14-2=12 P, 8 14 7 21 14-4=10 21-4=17 P2 2 93 4 3 24 21-5-16 24-5-11 P4 5 LJF = P2 -> P3 -> P, -> P4 PH P3 P2 P 24 0 21 14 Avg. DT = 0+4+10+16 = 30 = 7.5 Avg. TAT = 6+12+17+19 = 54 = 13.5

3

4. FCFS (Pre-emplive) Process AT BT P WT CT TAT 9, 0 6 1 P2 2 8 3 11 31 19 4 7 2 2 2 2 P3 P4 5 3 4 16 24 Priority - P, - P3 - P2 - P4 P3 P2 21 13 6 Arg. $\omega T = 0 + 11 + 2 + 16 = \frac{29}{4} = 7.25$ $\frac{4}{9}$ TAT = $\frac{6+19+9+19}{4} = \frac{53}{4} = 13.25$

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4

5. SJF (Preemptive (Remaining Time))

Process AT BT CT WT TAT

9, 0 6 6 0 6

P2 2 8 24 14 22

P3 4 7 16 5 12

P4 5 3 9 1 4

P₁ P₄ P₃ P₂

Avg. $\omega T = \frac{0+14+5+1}{4} = \frac{20}{4} = \frac{5}{4}$

 $Avg.TAT = \frac{6+22+12+4}{4} = \frac{44}{4} = 11$



6. SJF (Preemptive

Avg.
$$\omega T = 3 + 14 + 5 + 0 = \frac{22}{4} = 5.5$$

Avg. TAT =
$$\frac{9+22+12+3}{4} = \frac{46}{4} = 11.5$$





