Michael Dandrea

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	1.	John is it is a like the state of the state
		Why is it important for the scheduler to distinguish
	0	You can make better use of the CPUs resources
		h can make better use of the CPUs resources
		by giving higher priority to I/O bound programs and allow them to execute ahead of the CPU-bound
1		and allow them to execute ahead of the CPU-bound
		bodiams.
	0	1 8 + 8 \ [10 + 13 + 8 + 1] . 7 C C
	2.	Now the capture (12 + 20 + 0 + 15 + 8) / 5 = 11
1	a.	Process Burst Time Priority
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0		Ps. hand of 1 8
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		5- In prove the enthance of the Section Colored
		TATE: [2] 2 2 2 2
		FCFS: P. P2 P3 P4 P5
		spansilla (OZI Japanaja and dus. 1/5 //
		SJF: P2 P, P5 P4 P3
		Constitution and the second of
		0 8 12 15 20 21
		PR/ant -21: P. P. P. P. (2) P. (2) P. P. (4)
		RR (quantum=2): P ₁ (1) P ₂ P ₃ (6) P ₄ (3) P ₅ (2) P ₁ P ₃ (4) 0 2 3 5 7 9 10 12
	71 2	P. P
	C 11	Py(1) P5 18 P3 P4 P3 14 16 18 19 21
	h	FCFS: P = 3, P2 = 4, P3 = 12, P4 = 17, P5 = 21
	0.	SJF: P.=4, P2=1, P3=21, P4=13, P5=8
	K 1 18 111	Non-Preemptive: P1 = 15, P2 = 21, P3 = 8, P4 = 20, P5 = 12
-		DR: P1 = 10, P2 = 3, P3 = 21, P4 = 19, P5 = 16
-63		K

Michael Donathea

C. FCFS: P. = 6, P2 = 3, P3 = 4, P4 = 12, P5 = 17 STF: P, = 1, P2 = 6, \$ 3 = 13, P4 = 8 P5 = 4 Non Preemptive: P. = 12, P2 = 26, P3 = 6, P4 = 15, P6 = 8 RR:P, = 7, P2 = 2, P3 = 13, P4 = 14 P6 = 12 d. FCFS: (0+3+4+12+17)/5= 7.2 SJF: (1+0+13+8+4)/5=5.2 Non-Preemptive: (12+20+0+15+8) /5=11 RR: (7+2+13+14+2)15=9.6 => SJF has the minimum average wait time 3. Consider a system running ten I/o-bound tasks and one CPU-bound task. Assume the I/O bound tasks issue an I/o operation once for every millisecond of CPU computing and that each I 10 operation takes 10 milliseconels to complete. Also assume the Context-switching overhead is 0.2 milliseconds and that all processes are long running tasks. Describe the cou utilization for a round robin scheduler when: a. The quantum is 2 milliseconds. 10. I/o (time) + 1. (PU(time) 10. I/o (Lime) + 1. CPULtime) + 10. Context (6ime) 10.1 + 1.2 _ 10+2 _ 12 - 85.76% 10.1+1.2+10.00.2 10+2+2 IBI CPU utilization 10.1+10.10 - 10+100 -90,9010 10-1+1-10+10. 2.2 10+10+2 22 operation Ma-Aremotive Piz 15 12 21, 13 = 8, 12 = 20, P3 = 12