

National University of Computer & Emerging Sciences, Karachi Spring -2021 CS-Department



Class Activity 02

Course Code: CS220	Course Name:	Operating Systems				
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Name:		Roll No:				

FILL IN THE BLANKS

- 1. In Symmetric Multiprocessing clustering, multiple nodes run the same application.
- 2. The Unix system call for Communication is pipe(), <a href="mailto:shmget(), <a href="mailto:mmap().
- 3. Printf() execute on Kernel mode whether Scanf() execute on Kernel
- 4. Mechanism determines how to do something, and Policy decide what will be done.
- 5. A <u>Trap</u> is a software-generated interrupt caused either by an error or a user request.
- 6. Profiling is periodic sampling of instruction pointer to look for statistical trends.
- 7. <u>Bootstrap Loader</u> stored in ROM or EEPROM locates the kernel, loads it into memory, and starts it.
- 8. <u>System Calls</u> are the only entry points for the kernel system.
- 9. ABI stands for Application Binary Interface.
- 10. In <u>Microkernel Systems</u> communication takes place between user modules using message passing.

Round Robin with TQ = 3ms

Table 1

Proces	Arrival		Priorit
S	Time	Burst Time	y
P1	0	11	2
P2	5	28	4
Р3	12	2	3
P4	2	10	1
P5	9	16	5

SOLUTION:

ROUND ROBIN:

P1	0	11 8 5 2 X
P4	2	10 7 4 1 X
P2	5	28 25 22 19 16 13 10 7 4 1 X
P5	9	16 13 10 7 3 -X
P3	12	2 0− X

GANTT CHART: TQ=3

P1	P4	P1	P2	Р4	P5	P1	Р3	P2	Р4	Р5	P1	P2	Р5	P2	Р5	P2	P5	P2	P2	P2	P2
0-	3-	6-	9-	12-	15-	18-	21-	23-	26-	27-	30-	32-	35-	38-	41-	44-	47-	50-	53-	56-	59-
3	6	9	12	15	18	21	23	26	27	30	32	35	38	41	44	47	50	53	56	59	60

TURN AROUND TIME CALCULATION:

PROCESSES	ARRIVAL TIME	BURST TIME	COMPLETION TIME	WAITING TIME	TURN AROUND TIME
P1	0	11	32	21	32
P2	5	28	60	27	55
P3	12	2	23	9	11
P4	2	10	27	15	25
P5	9	16	50	25	41
				AVG=19.4	AVG=32.8

						Date
P	AT	BT	CT	WT	TAT	
P1	0	11	32	21	32	
P2	5	28	60	27	55	
P3	12	2	23	9	- 11	
P4	2	10	27			
P5	9	16	50			•
		A	ug.	19.4	32.87	D= 3 ms
		01	7	1		
PI	0	16 F	8 N	_		
P4	2	10 7	41	10/1/	12/10	XXXIX
P2	5	18 12	- 18	2- 2/	Jo X	
P5 P3		16 13		XX		
[3]	12	70	*			· · · · · · · · · · · · · · · · · · ·
•						
[P ₁]P	4 J P1	1 P2 P	4 P5	THE RESERVE OF THE PERSON NAMED IN		P4 P5 P1 P2 P5 P2
0 3	6	9 12	15 18			6 27 30 32 35 38 41
		THE RESERVE THE PERSON NAMED IN COLUMN TWO IS NOT THE OWNER, THE PERSON NAMED IN COLUMN TWO IS NOT THE OWNER,	Name and Address of the Owner, when the Owner, which t			P2 P2
		41 4	14 47	+ 50	53	56 59 60
		1 = 1	101	0/1		
Pr Pr Pr Pr	131 /	1 1/1 1/4	P6 5/	3		
7 21 18 15 1	2 12	9/9/	6/5/	2		
	DID	TO XOZ	10/0	SPA.		
	P2 Px	1 7 18	3 35	30 36		
	47	म पा ऽ	53	34 20		