

Operating System

Topic: Process Scheduling, First Come First Serve

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1. calculate the average waiting time for above example?

Process	Burst time	Arrival time
P1	6	2
P2	2	5
P3	8	1
P4	3	0
P5	4	4

2. Consider the following processes that arrive as shown as below follows FCFS scheduling method.

Process	Arrival Time	Burst Time
P1	0	3
P2	2	4
P3	4	2
P4	4	1

What is the Average TAT?

Hint: Turn Around Time (TAT) =Burst time + Waiting time

(a) 4.95 ms	(b) 4.75 ms
(c) 3.75 ms	(d) 5 ms

What is the throughput for above problem?

(a) 0.3 jobs/sec	(b) 0.4 jobs/sec
(c) 0.5 jobs/sec	(d) 0.6 jobs/sec

What is the average Response time for above problem?

(a) 2.25	(b) 3.25
(c) 4.5	(d) 5

What is the average waiting time for the above problem?

(a) 1.25	(b) 2.25
(c) 2.5	(d) 3.5

What is the CPU utilization?

(a) 50%	(b) 90%
(c) 100%	(d) None

3. Consider the following set of processes that arrive at time '0', with the length of CPU Burst-time given in millisecond:

Process	Burst Time
P1	1
P2	7
P3	3

What is the average waiting time when we FCFS Scheduling algorithms?

(a) 1.67, 3	(b) 2.67, 3
(c) 1.76, 3.5	(d) 1.66, 2

- 4. Which of the following information is not part of Process Control Block?
- (1) Process State
- (2) Process Page table
- (3) List of Open files
- (4) Stack Pointer

(a) Only 3	(b) 3 & 4
(c) 2 and 4	(d) None

- 5. Progress can be explained as:
- (a) Speed of the Execution of the processes
- (b) Maximum utilization of CPU
- (c) the process which is not interested to enter Critical Section should not stop the other processes to enter CS
- (d) All of the above.