

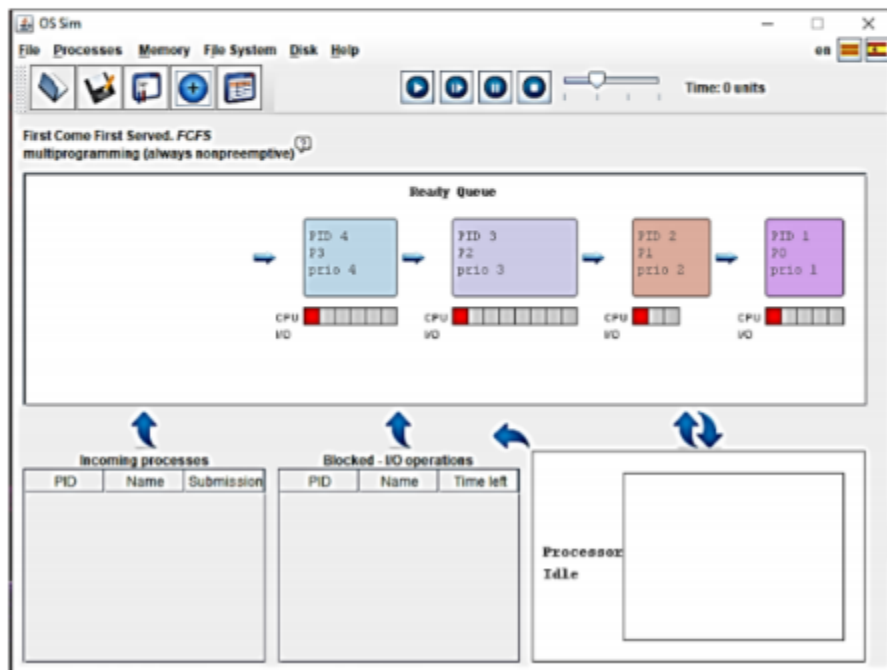
## MODUL 11

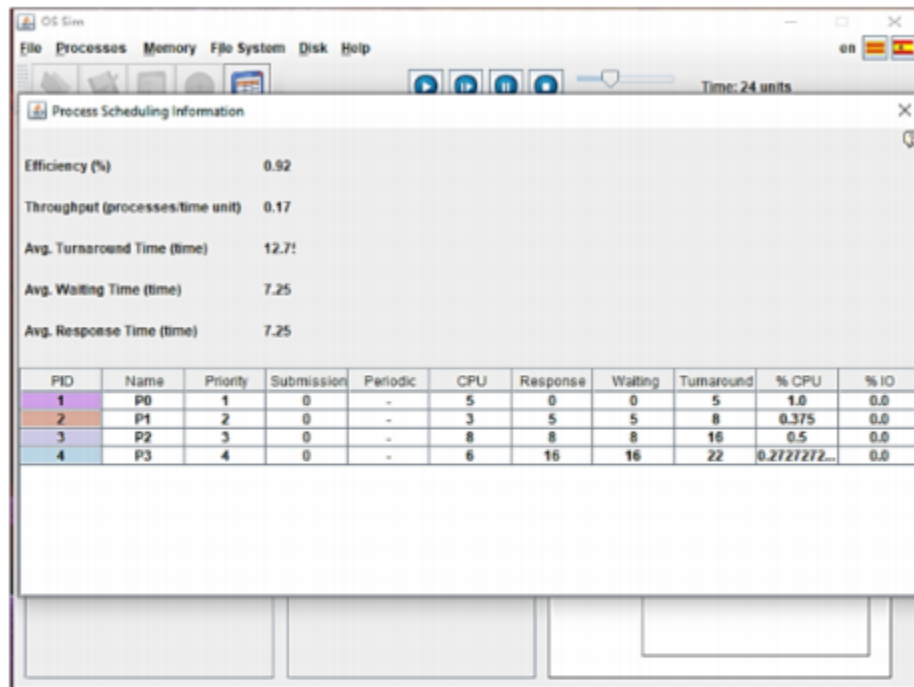
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NIM : L200180126

### 1. FCFS

Process	Arrival Time	Burst Time	Service Time
P0	0	5	0
P1	1	3	5
P2	2	8	8
P3	3	6	16





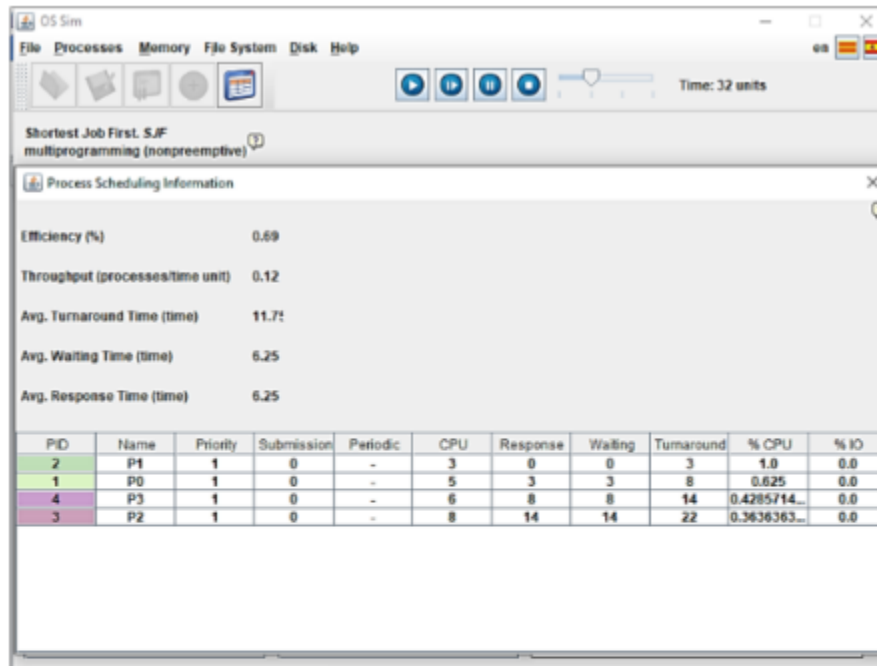
Process	Wait Time : Service Time – Arrival Time
P0	0
P1	5
P2	8
P3	16
Av wait time	7.25

## 2. SJF

Process	Arrival Time	Burst Time	Service Time
P0	0	5	0
P1	1	3	5
P2	2	8	8
P3	3	6	16

*Non-preemptive*

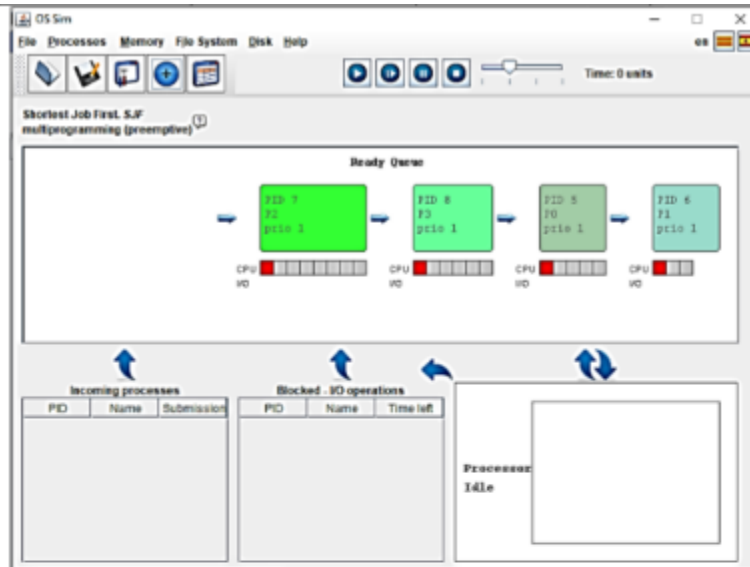




Process	Wait Time : Service Time – Arrival Time
P0	3
P1	0
P2	14
P3	8
Av wait time	6.25

*Preemptive*

Process	Arrival Time	Burst Time	Service Time
P0	0	5	0
P1	1	3	5
P2	2	8	8
P3	3	6	16



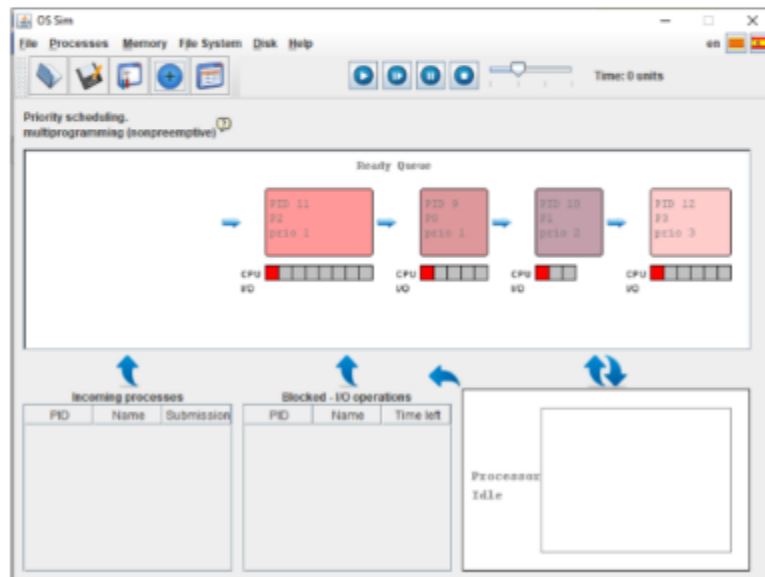
OS Sim interface showing the Process Scheduling Information window at Time: 66 units. The window displays various performance metrics and a table of process statistics.

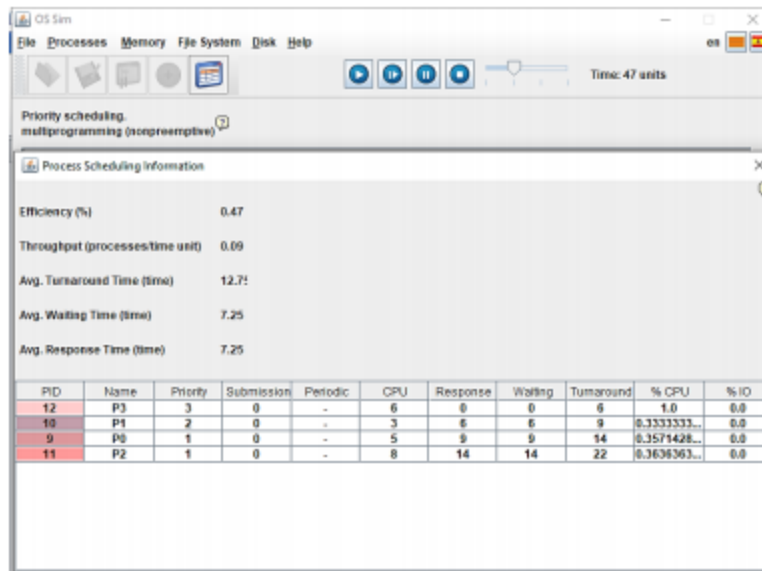
PID	Name	Priority	Submission	Periodic	CPU	Response	Waiting	Turnaround	% CPU	% I/O
6	P1	1	0	-	3	0	0	3	1.0	0.0
5	P0	1	0	-	5	3	3	8	0.625	0.0
8	P3	1	0	-	6	8	8	14	0.4285714	0.0
7	P2	1	0	-	8	14	14	22	0.3636363	0.0

Process	Wait Time : Service Time – Arrival Time
P0	3
P1	0
P2	14
P3	8
Av wait time	6.25

### 3.PRIORITY

Process	Arrival Time	Burst Time	Priority	Service Time
P0	0	5	1	0
P1	1	3	2	11
P2	2	8	1	14
P3	3	6	3	5

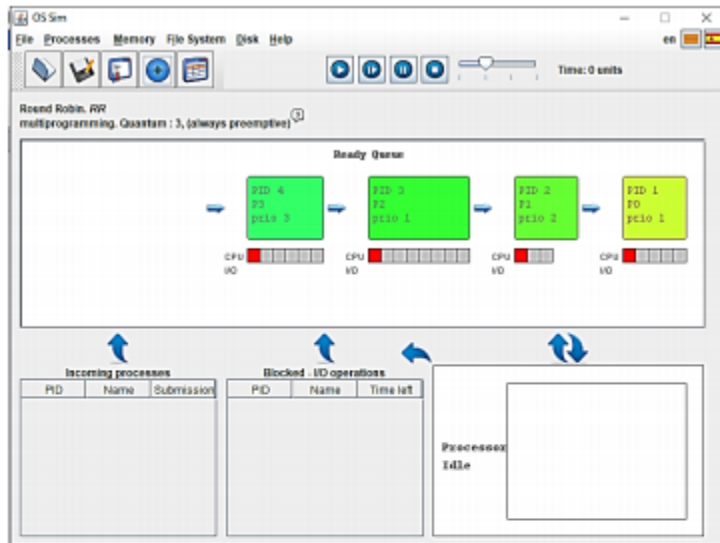




Process	Wait Time : Service Time – Arrival Time
P0	9
P1	6
P2	14
P3	0
Av wait time	7.25

#### 4. ROUND ROBIN (Quantum time = 3)

Process	Arrival Time	Burst Time	Priority	Service Time
P0	0	5	1	0
P1	1	3	2	11
P2	2	8	1	14
P3	3	6	3	5



OS Sim

File Processes Memory File System Disk Help

Round Robin, RR  
multiprogramming, Quantum : 3, (always preemptive)

Process Scheduling Information

Efficiency (%) 0.71

Throughput (processes/time unit) 0.13

Avg. Turnaround Time (time) 15.50

Avg. Waiting Time (time) 10.00

Avg. Response Time (time) 4.50

PID	Name	Priority	Submission	Periodic	CPU	Response	Waiting	Turnaround	% CPU	% I/O
2	P1	2	0	-	3	3	3	6	0.5	0.0
1	P0	1	0	-	5	0	9	14	0.3571428	0.0
4	P3	3	0	-	8	9	14	29	0.3	0.0
3	P2	1	0	-	8	6	14	22	0.3636363	0.0

Process	Wait Time : Service Time – Arrival Time
P0	9
P1	3
P2	14
P3	14
Av wait time	10