

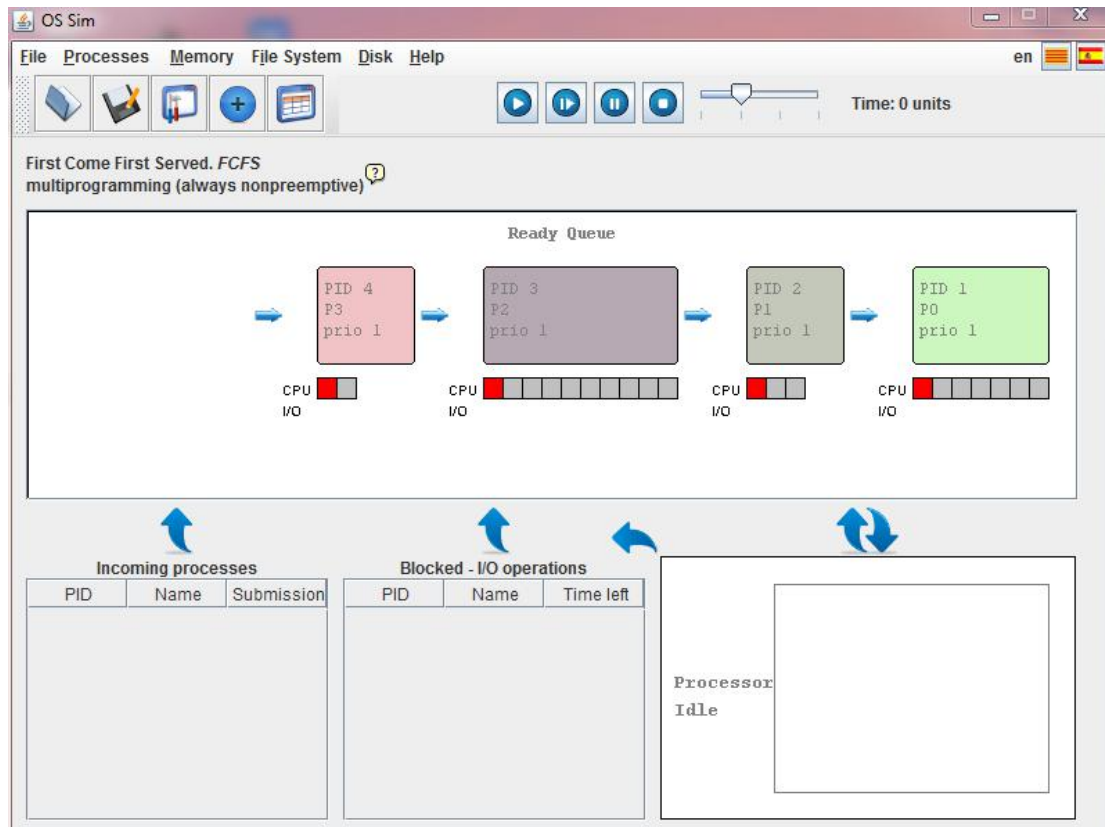
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**NIM : L200180155**

**Kelas : D**

**Modul 11**  
**Penjadwalan Proses dan Manajemen Memori (OSSim)**

**1. FJFS**



Process Scheduling Information

Efficiency (%) 0.63

Throughput (processes/time unit) 0.11

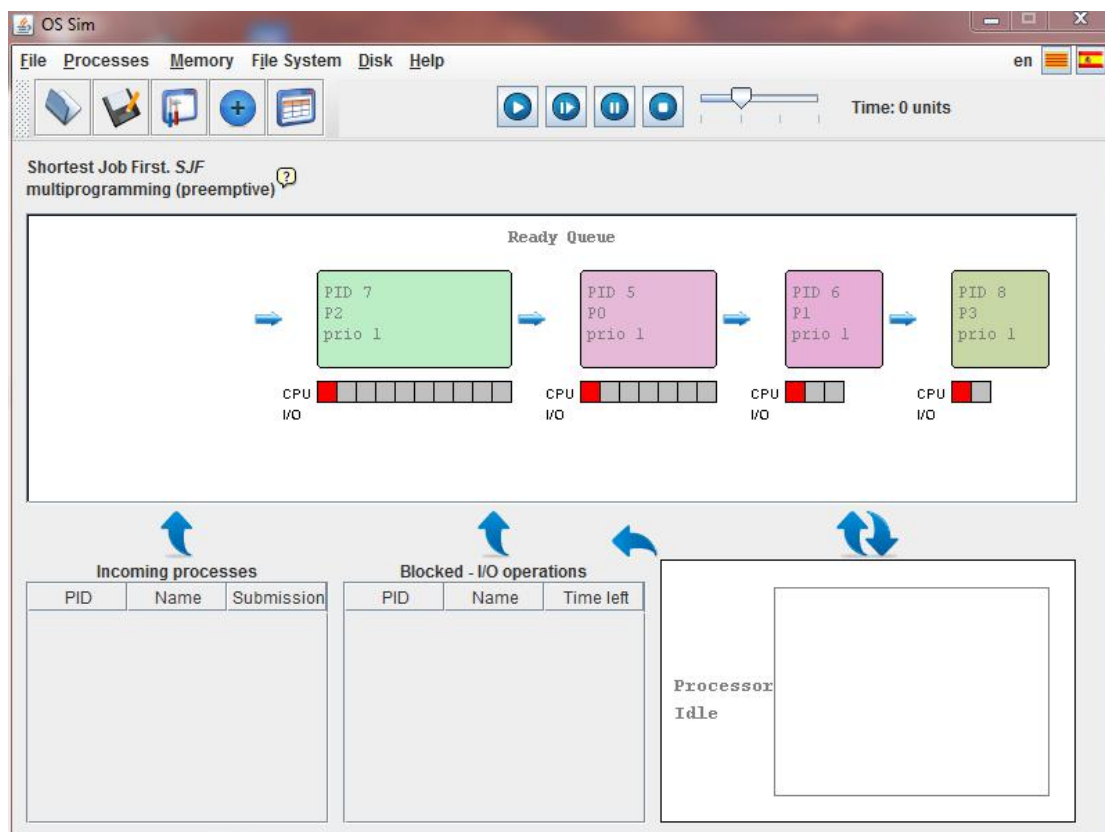
Avg. Turnaround Time (time) 14.75

Avg. Waiting Time (time) 9.25

Avg. Response Time (time) 9.25

PID	Name	Priority	Submission	Periodic	CPU	Response	Waiting	Turnaround	% CPU	% IO
1	P0	1	0	-	7	0	0	7	1.0	0.0
2	P1	1	0	-	3	7	7	10	0.3	0.0
3	P2	1	0	-	10	10	10	20	0.5	0.0
4	P3	1	0	-	2	20	20	22	0.0909090...	0.0

## 2. a.Preemptive



Process Scheduling Information

Efficiency (%) 0.69

Throughput (processes/time unit) 0.12

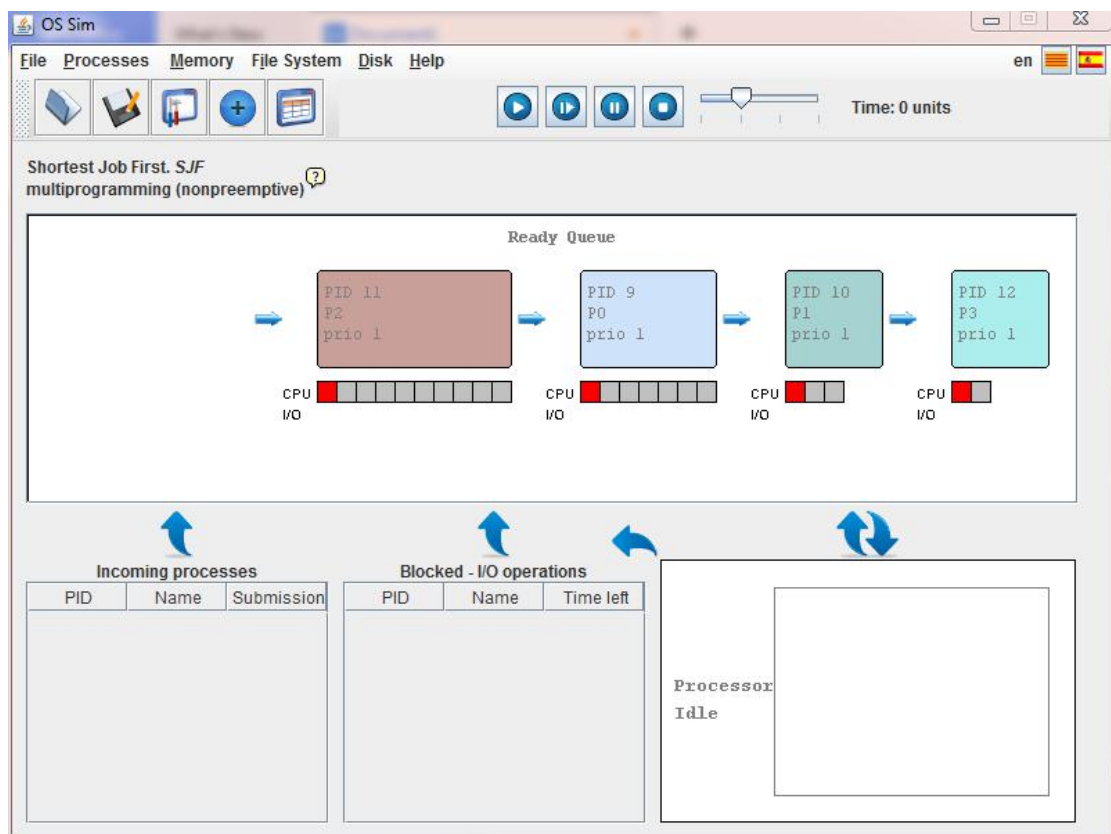
Avg. Turnaround Time (time) 10.25

Avg. Waiting Time (time) 4.75

Avg. Response Time (time) 4.75

PID	Name	Priority	Submission	Periodic	CPU	Response	Waiting	Turnaround	% CPU	% IO
8	P3	1	0	-	2	0	0	2	1.0	0.0
6	P1	1	0	-	3	2	2	5	0.6	0.0
5	P0	1	0	-	7	5	5	12	0.5833333...	0.0
7	P2	1	0	-	10	12	12	22	0.4545454...	0.0

## b. NonPreemptive



Process Scheduling Information

Efficiency (%) 0.46

Throughput (processes/time unit) 0.08

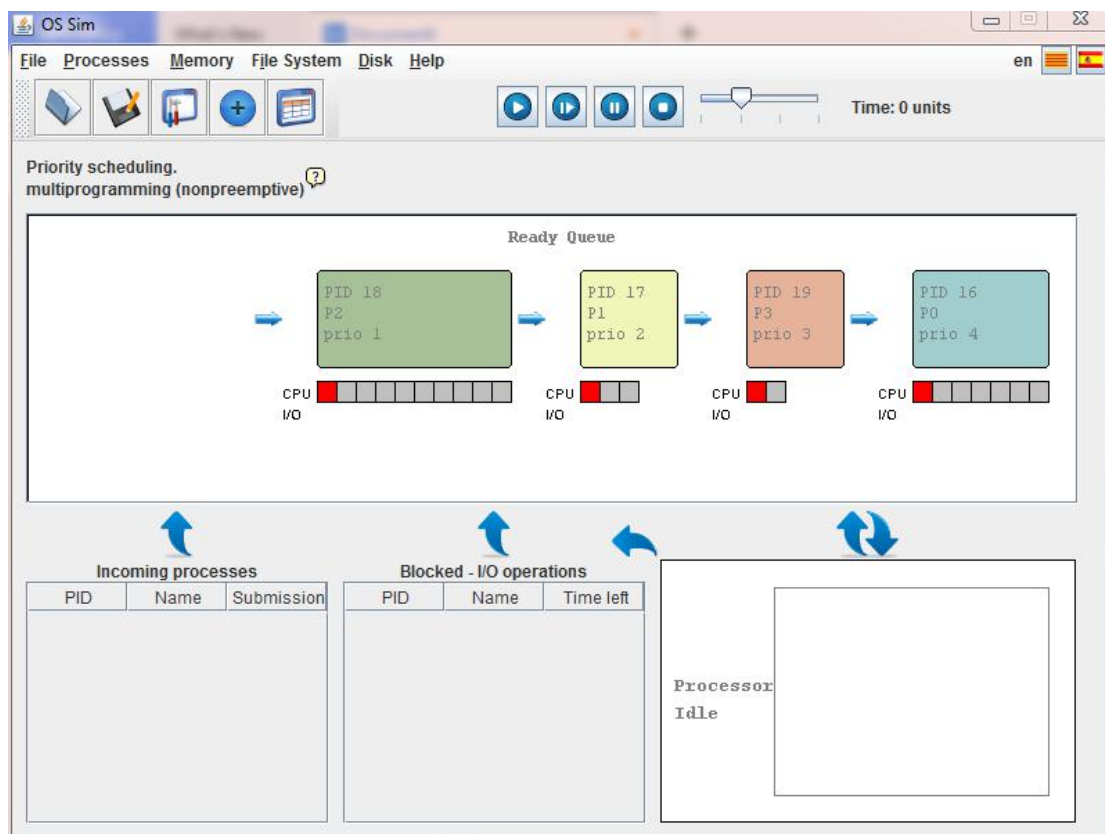
Avg. Turnaround Time (time) 10.25

Avg. Waiting Time (time) 4.75

Avg. Response Time (time) 4.75

PID	Name	Priority	Submission	Periodic	CPU	Response	Waiting	Turnaround	% CPU	% IO
12	P3	1	0	-	2	0	0	2	1.0	0.0
10	P1	1	0	-	3	2	2	5	0.6	0.0
9	P0	1	0	-	7	5	5	12	0.583333...	0.0
11	P2	1	0	-	10	12	12	22	0.454545...	0.0

### 3. Priority Scheduling



Process Scheduling Information

Efficiency (%) 0.29

Throughput (processes/time unit) 0.05

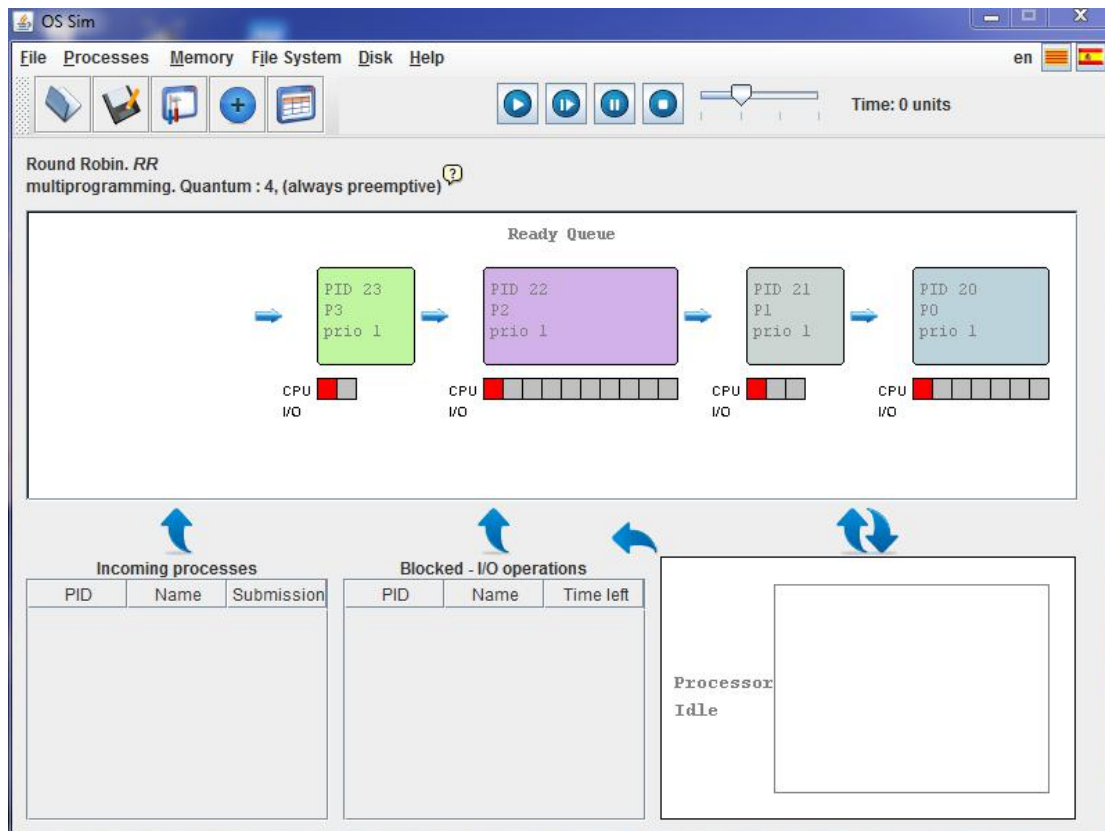
Avg. Turnaround Time (time) 12.50

Avg. Waiting Time (time) 7.00

Avg. Response Time (time) 7.00

PID	Name	Priority	Submission	Periodic	CPU	Response	Waiting	Turnaround	% CPU	% IO
16	P0	4	0	-	7	0	0	7	1.0	0.0
19	P3	3	0	-	2	7	7	9	0.222222...	0.0
17	P1	2	0	-	3	9	9	12	0.25	0.0
18	P2	1	0	-	10	12	12	22	0.454545...	0.0

#### 4. Round Robin (Quantum Time = 4)



Process Scheduling Information

Efficiency (%) 0.73

Throughput (processes/time unit) 0.13

Avg. Turnaround Time (time) 14.50

Avg. Waiting Time (time) 9.00

Avg. Response Time (time) 5.50

PID	Name	Priority	Submission	Periodic	CPU	Response	Waiting	Turnaround	% CPU	% IO
21	P1	1	0	-	3	4	4	7	0.4285714...	0.0
23	P3	1	0	-	2	11	11	13	0.1538461...	0.0
20	P0	1	0	-	7	0	9	16	0.4375	0.0
22	P2	1	0	-	10	7	12	22	0.4545454...	0.0