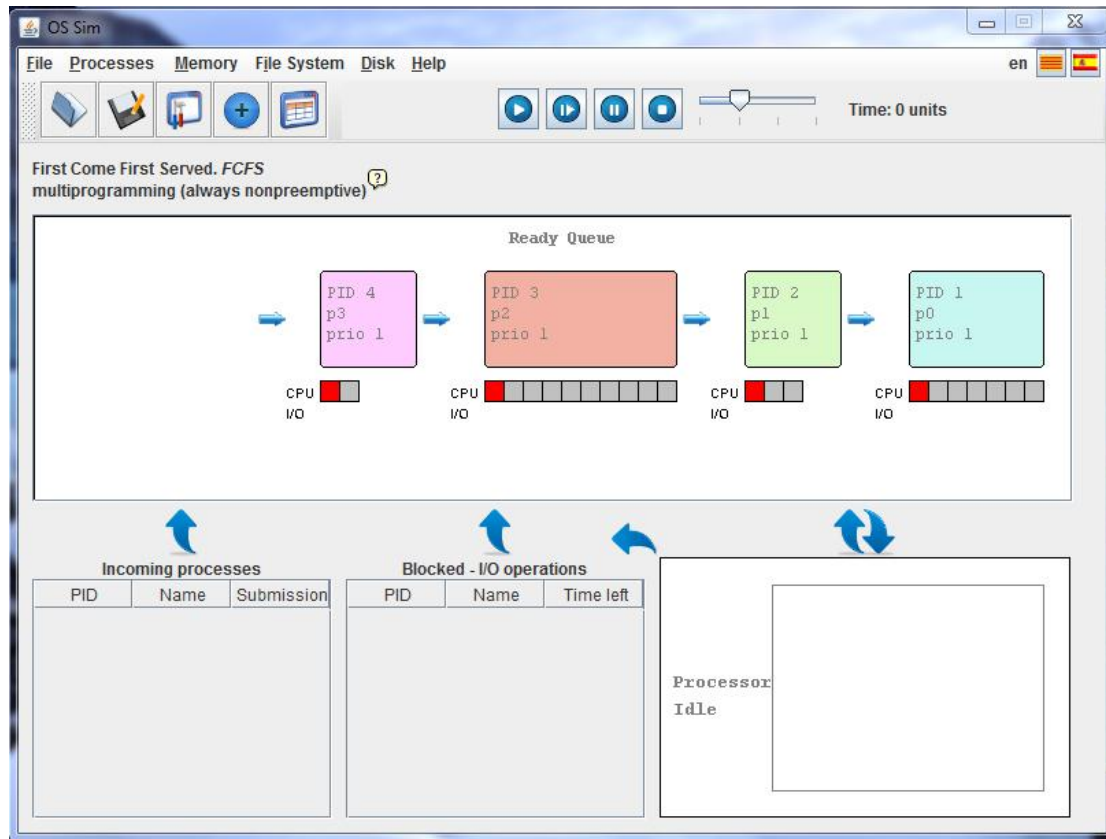
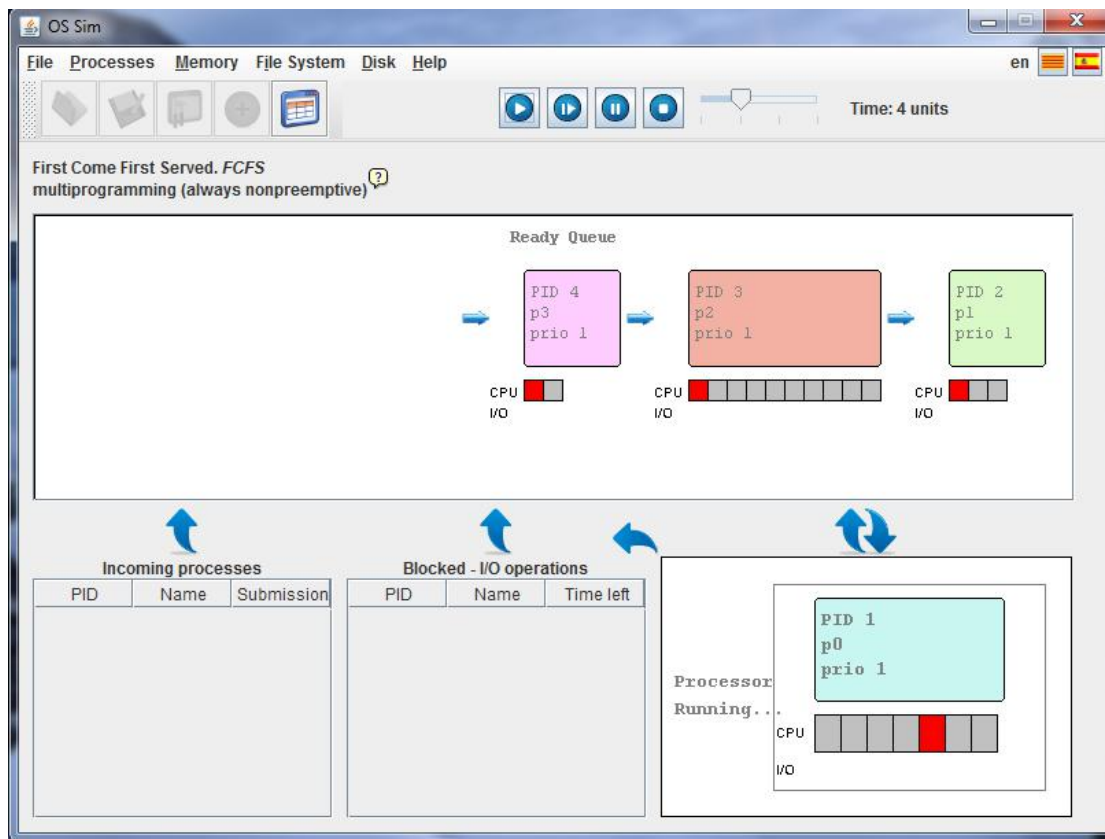


Nama : Aviza Ayuni Wulan
NIM : L200180187
Kelas : E

1. FCFS





OS Sim

File Processes Memory File System Disk Help

en

Time: 22 units

Process Scheduling Information

Efficiency (%) 1.00

Throughput (processes/time unit) 0.18

Avg. Turnaround Time (time) 14.75

Avg. Waiting Time (time) 9.25

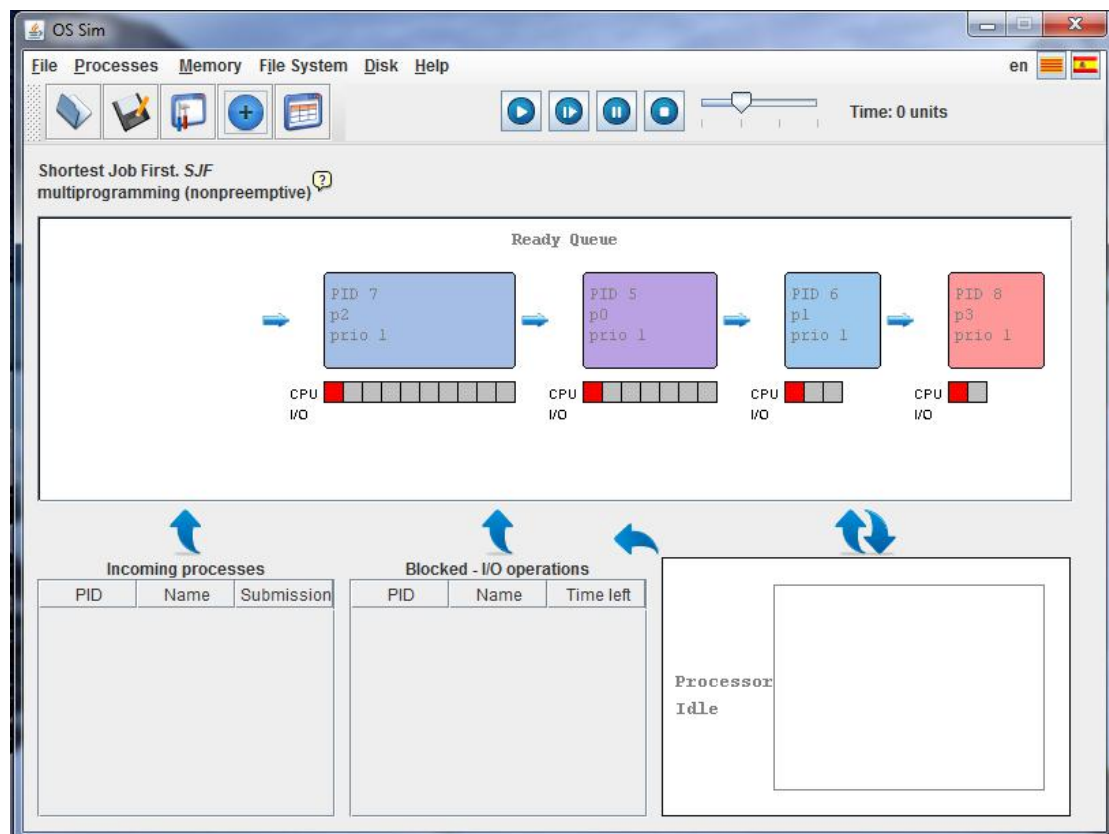
Avg. Response Time (time) 9.25

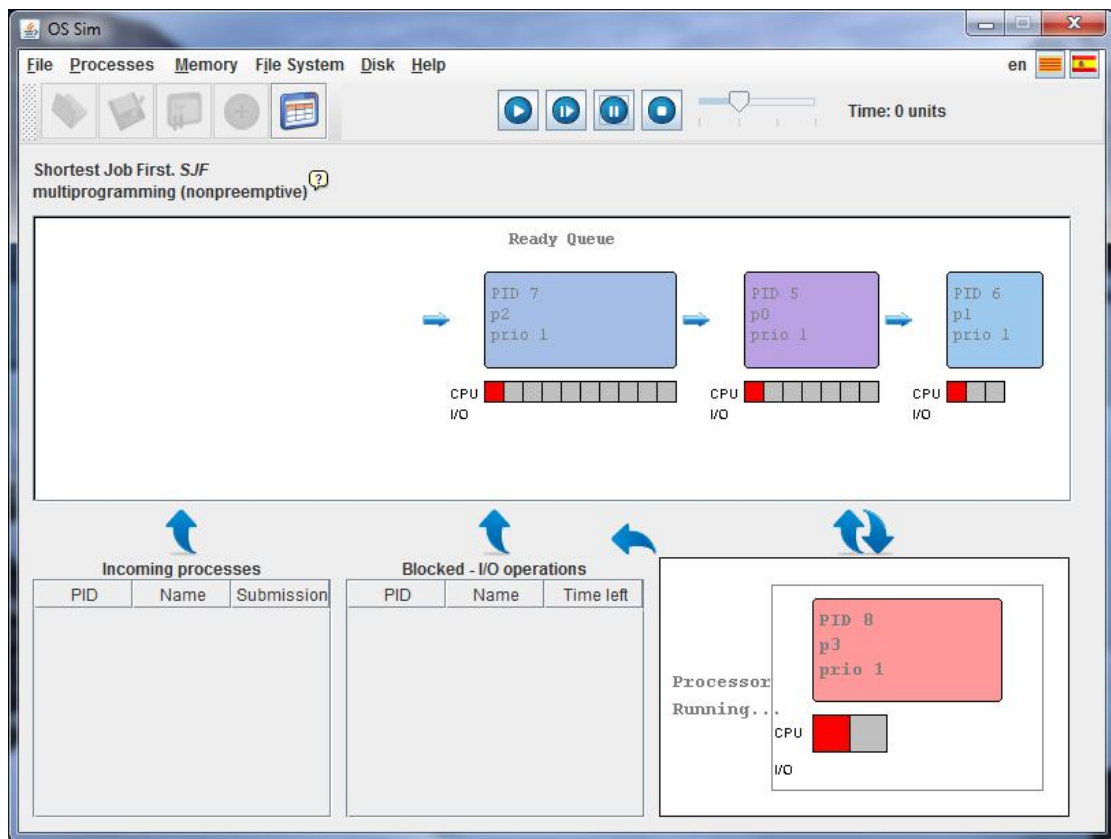
PID	Name	Priority	Submission	Periodic	CPU	Response	Waiting	Turnaround	% CPU	% I/O
1	p0	1	0	-	7	0	0	7	1.0	0.0
2	p1	1	0	-	3	7	7	10	0.3	0.0
3	p2	1	0	-	10	10	10	20	0.5	0.0
4	p3	1	0	-	2	20	20	22	0.0909090...	0.0

Process	Wait time
P0	0
P1	7
P2	10
P3	20
Average Waiting Time	14.75
Average Turnaround Time	9.25
Average Responser Time	9.25

2. SJFS

a. Non preemptive





OS Sim

File Processes Memory File System Disk Help

Time: 22 units

Process Scheduling Information

Efficiency (%) 1.00

Throughput (processes/time unit) 0.18

Avg. Turnaround Time (time) 10.25

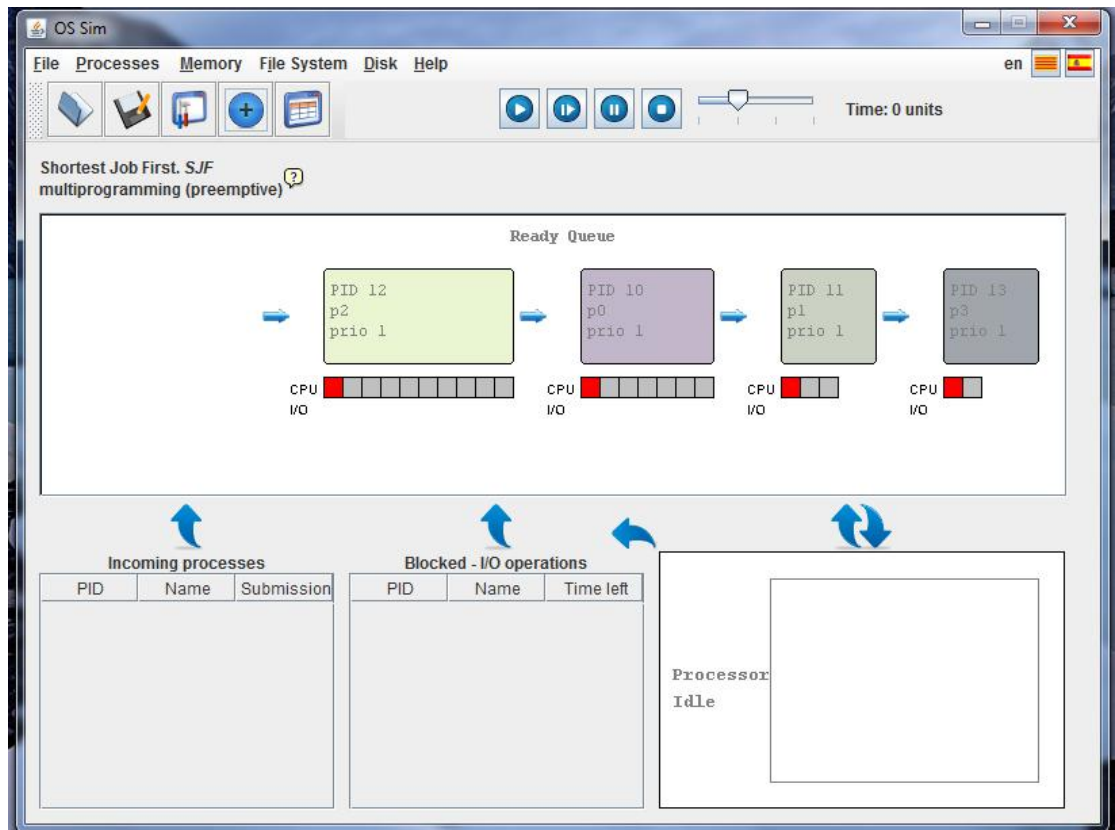
Avg. Waiting Time (time) 4.75

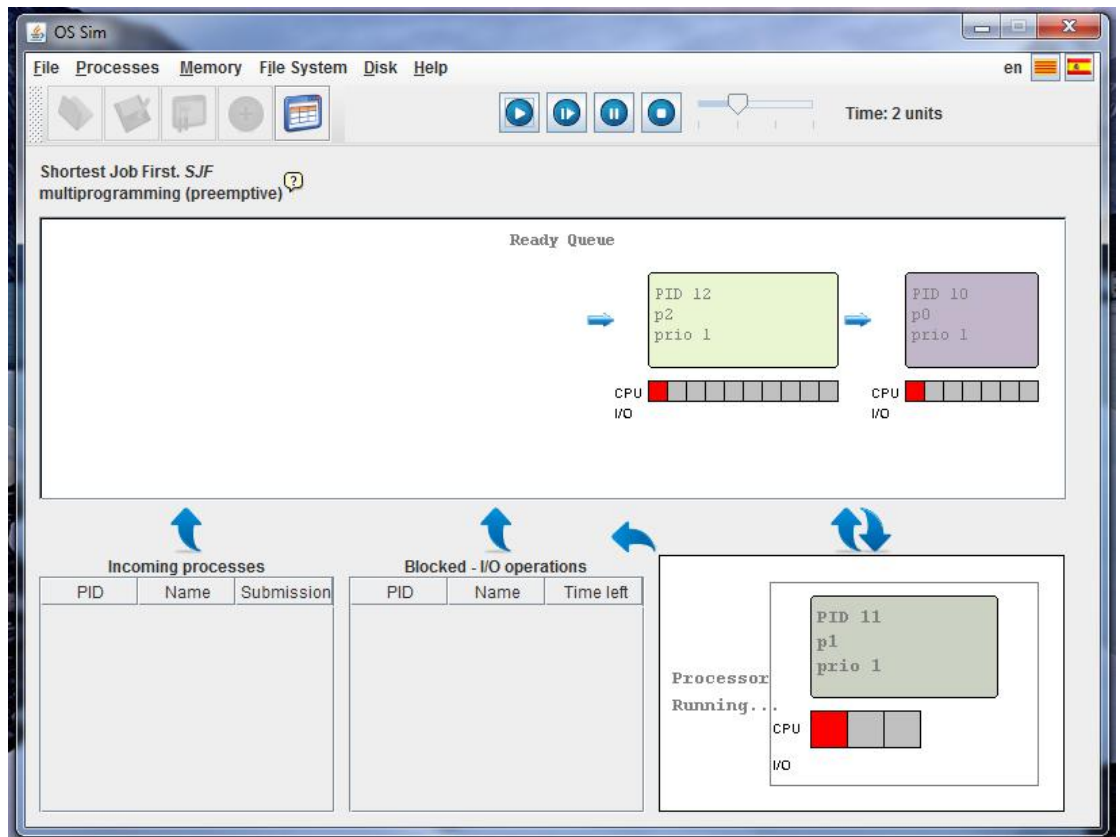
Avg. Response Time (time) 4.75

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	0.583333...	0.0
7	p2	1	0	-	10	12	12	22	0.454545...	0.0

Process	Wait time
P0	0
P1	2
P2	5
P3	12
Average Waiting Time	10.25
Average Turnaround Time	4.75
Average Responser Time	4.75

b. Preemptive





Process Scheduling Information

Efficiency (%) 1.00

Throughput (processes/time unit) 0.18

Avg. Turnaround Time (time) 10.25

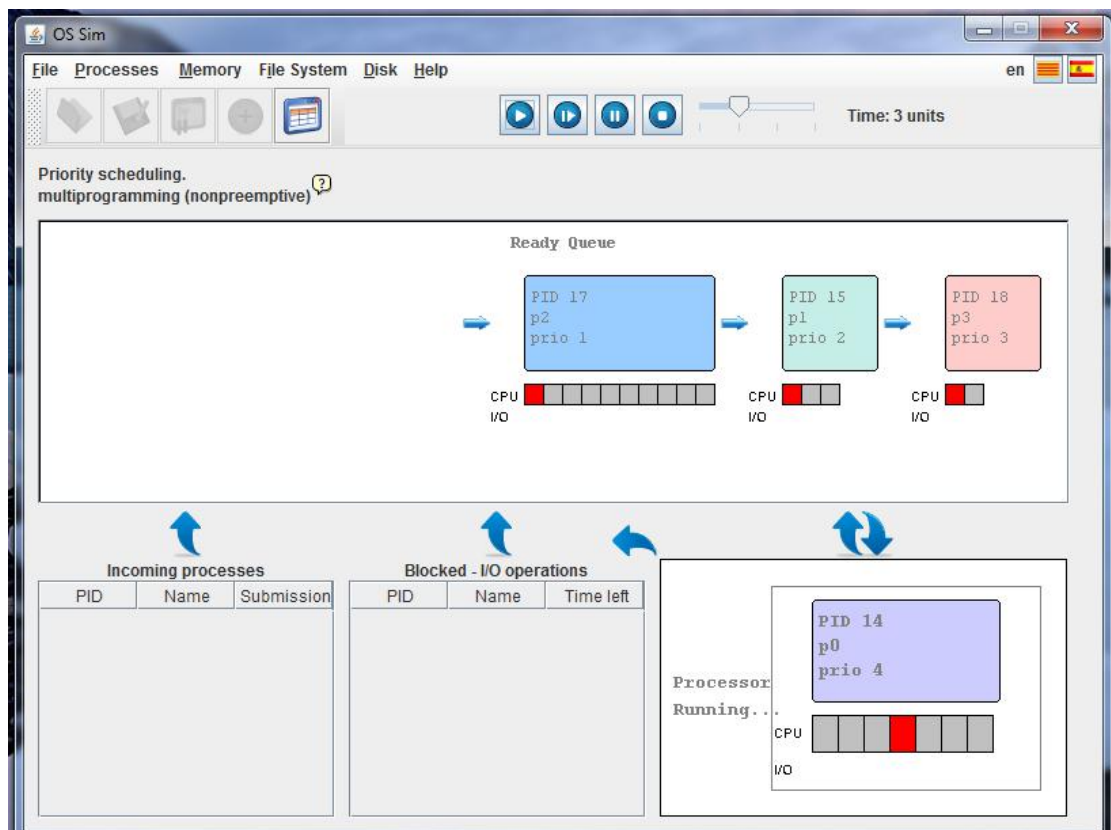
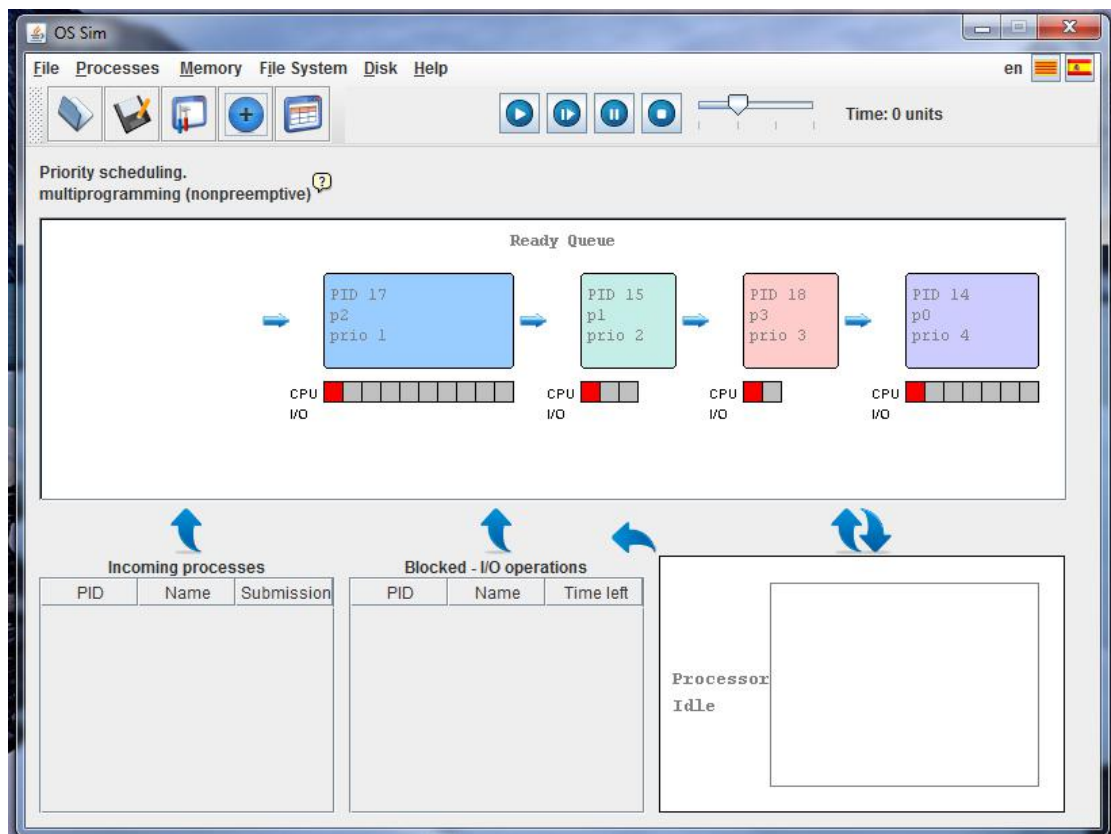
Avg. Waiting Time (time) 4.75

Avg. Response Time (time) 4.75

PID	Name	Priority	Submission	Periodic	CPU	Response	Waiting	Turnaround	% CPU	% IO
13	p3	1	0	-	2	0	0	2	1.0	0.0
11	p1	1	0	-	3	2	2	5	0.6	0.0
10	p0	1	0	-	7	5	5	12	0.5833333...	0.0
12	p2	1	0	-	10	12	12	22	0.4545454...	0.0

Process	Wait time
P0	0
P1	2
P2	5
P3	12
Average Waiting Time	10.25
Average Turnaround Time	4.75
Average Responder Time	4.75

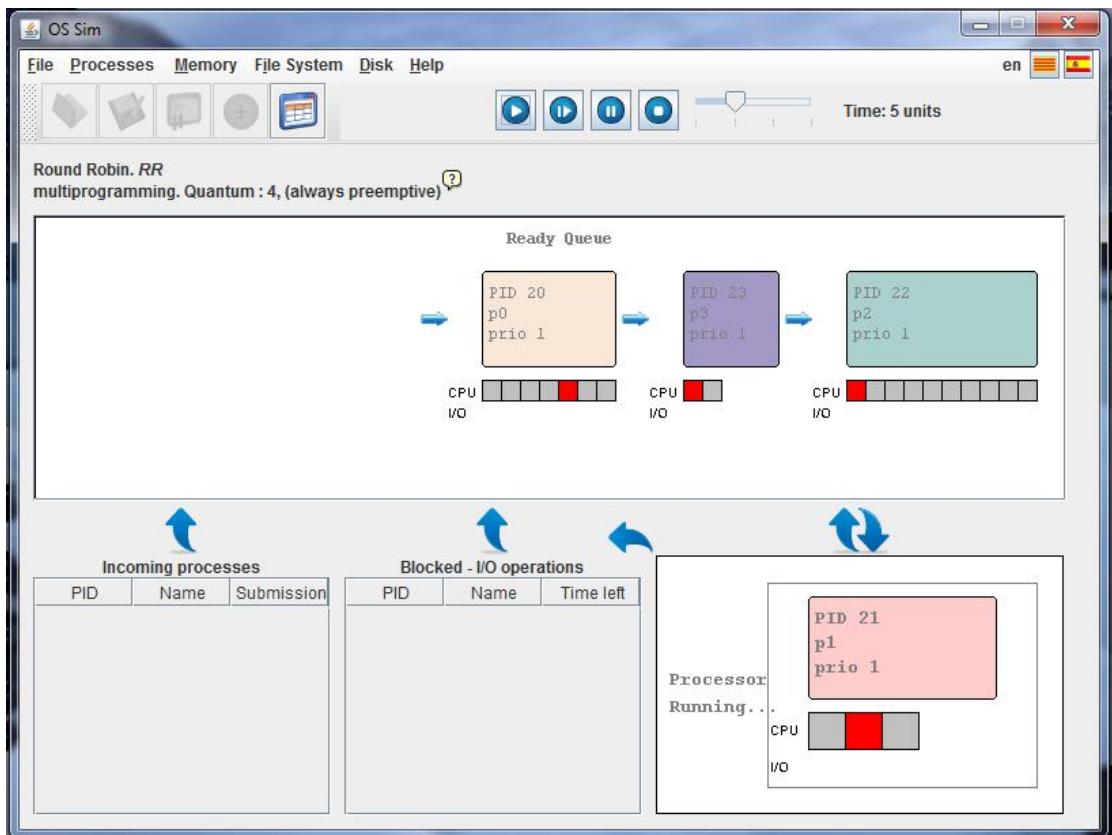
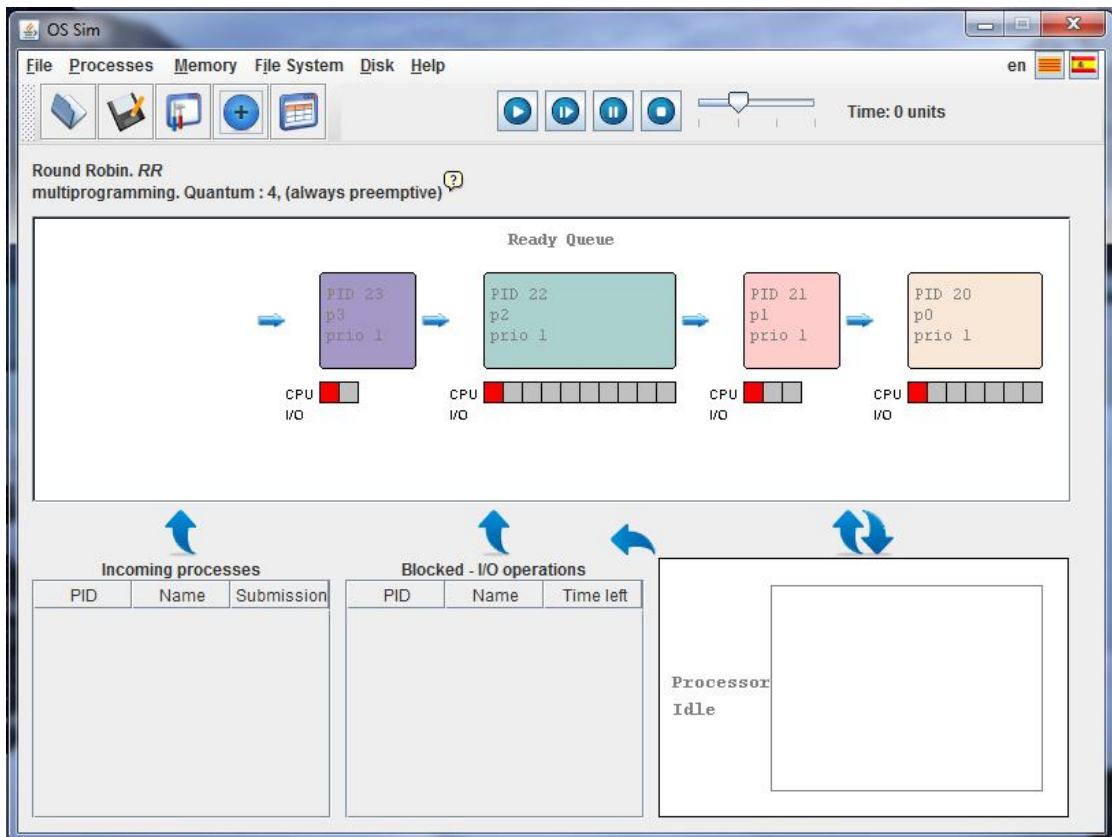
3. Priority scheduling



Process Scheduling Information										
Efficiency (%)		1.00								
Throughput (processes/time unit)		0.18								
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
14	p0	4	0	-	7	0	0	7	1.0	0.0
18	p3	3	0	-	2	7	7	9	0.222222...	0.0
15	p1	2	0	-	3	9	9	12	0.25	0.0
17	p2	1	0	-	10	12	12	22	0.454545...	0.0

Process	Wait time
P0	0
P1	7
P2	9
P3	12
Average Waiting Time	12.50
Average Turnaround Time	7.00
Average Responser Time	7.00

4. Round Robin



Process Scheduling Information										
Efficiency (%)		1.00								
Throughput (processes/time unit)		0.18								
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

Process	Wait time
P0	4
P1	11
P2	9
P3	12
Average Waiting Time	14.50
Average Turnaround Time	9.00
Average Responser Time	5.50