

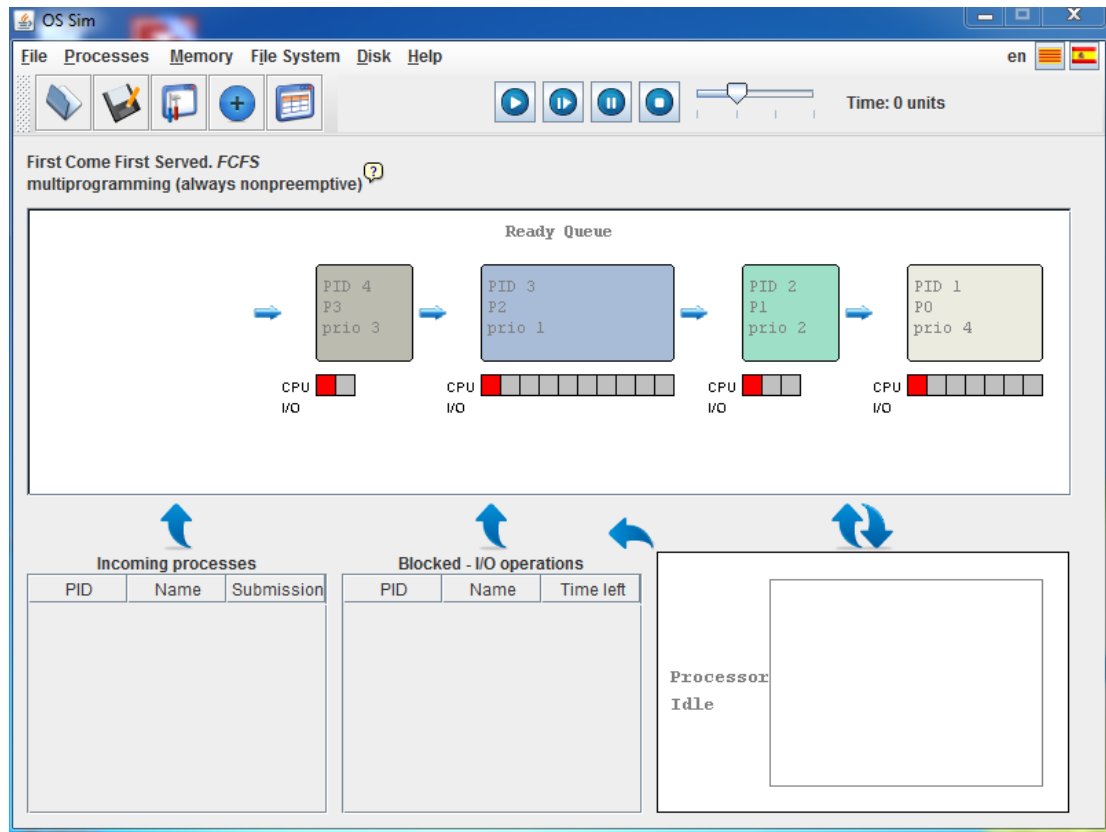
Nama : Cecylia Ivanka Hermanita

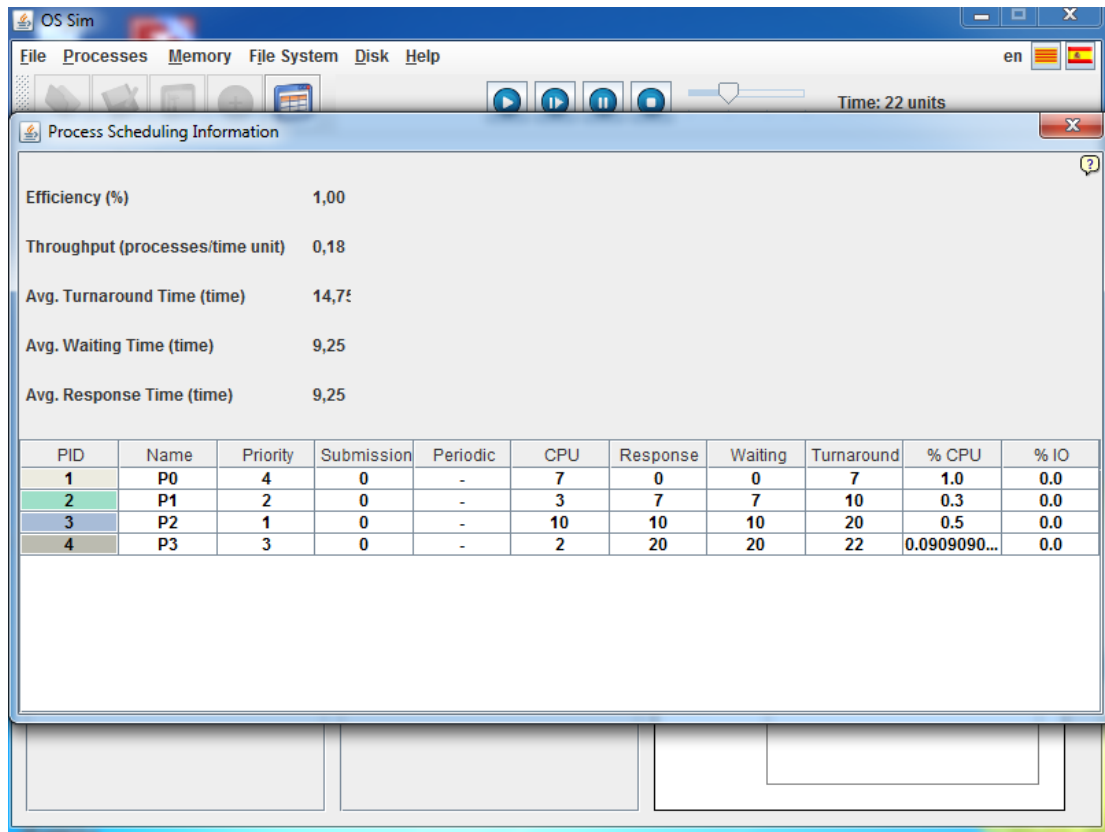
NIM : L200180210

Kelas : E Praktikum

## MODUL 11 SISTEM OPERASI

### 1. FCFS

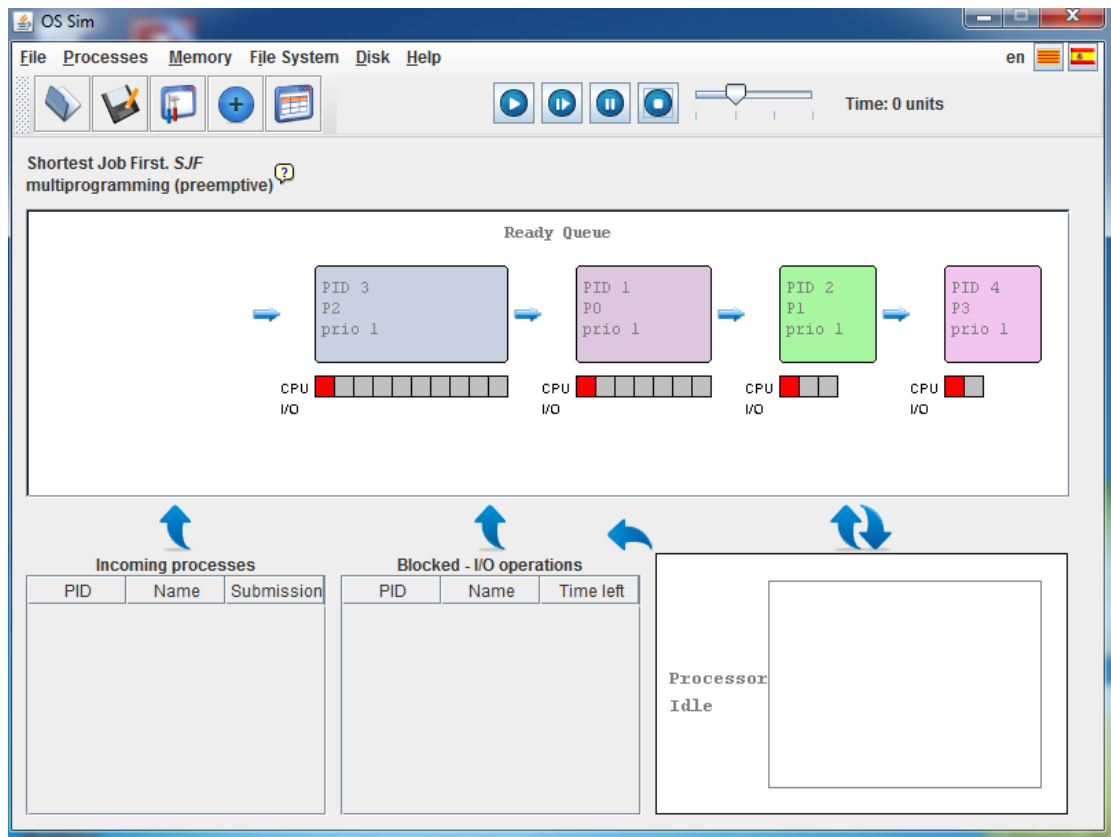




Process	Waiting Time
P0	0
P1	7
P2	10
P3	20
AverageWaiting Time	9.25
Average Turnaround	14.75
Average Respon	9.25

## 2. SJFS

### a) Preemptive



Process Scheduling Information

Efficiency (%) 1,00

Throughput (processes/time unit) 0,18

Avg. Turnaround Time (time) 10,25

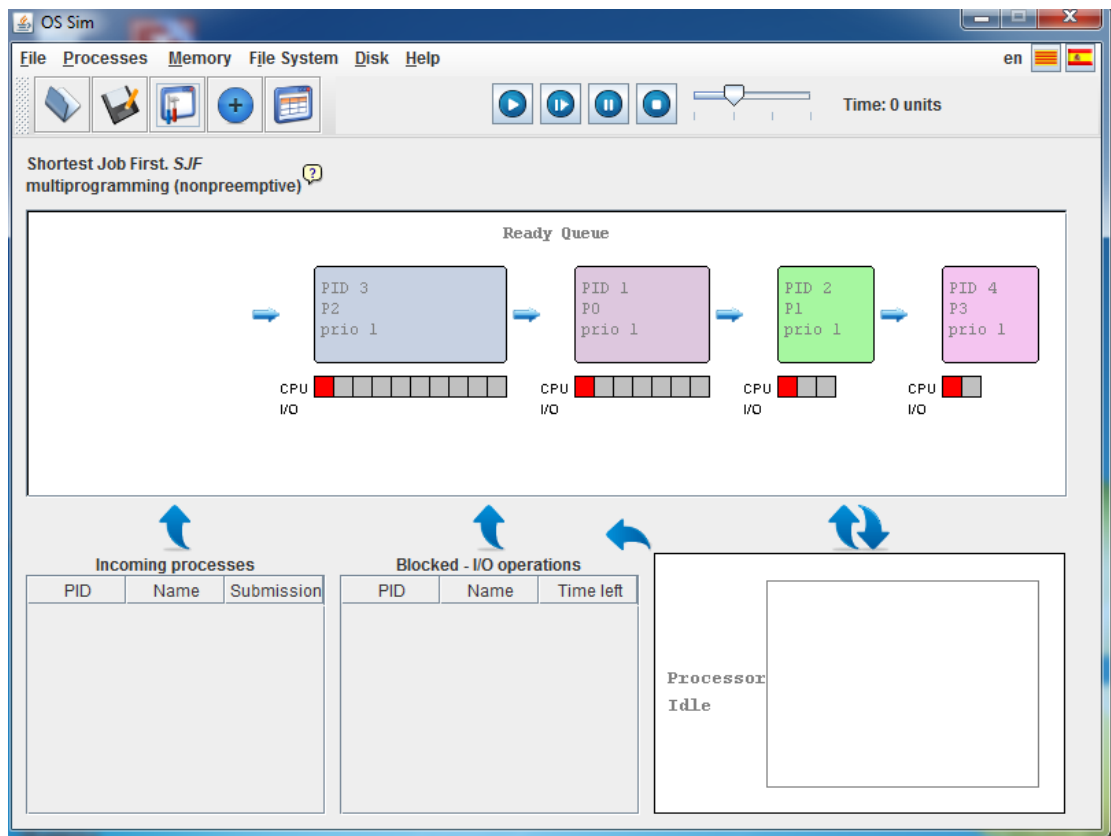
Avg. Waiting Time (time) 4,75

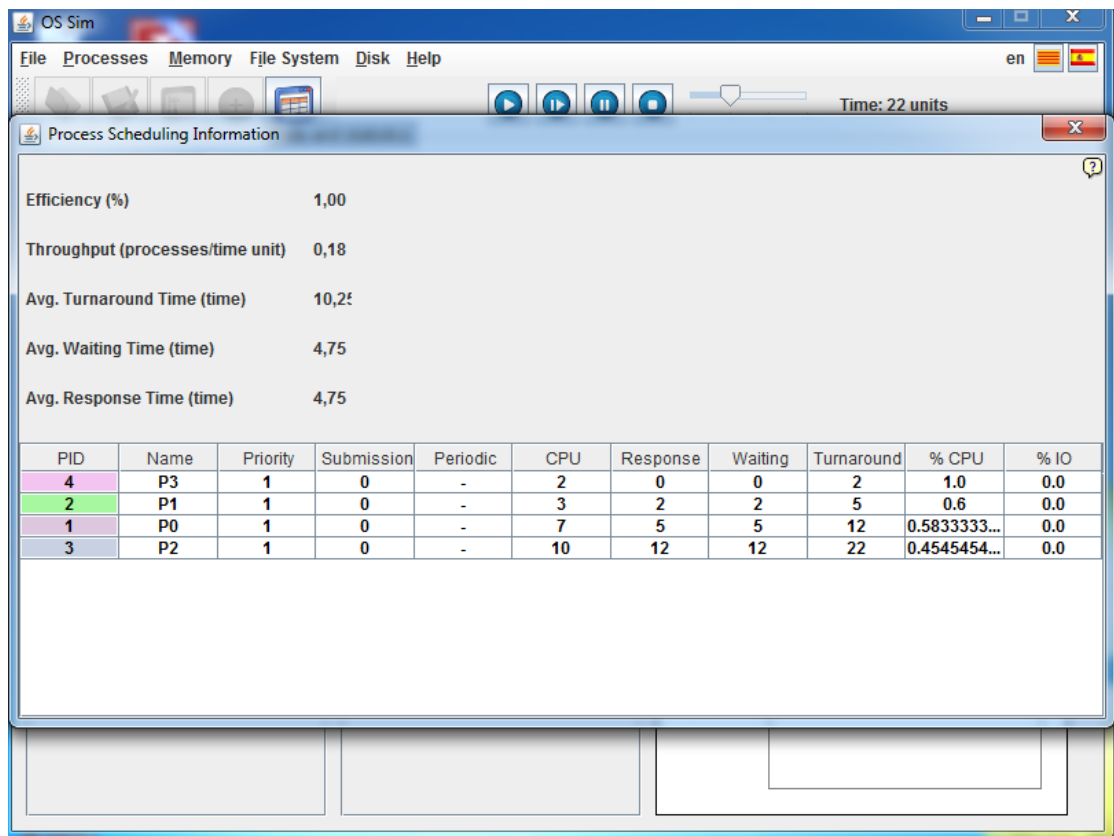
Avg. Response Time (time) 4,75

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

Process	Waiting Time
P0	5
P1	2
P2	12
P3	0
Average Waiting Time	4,75
Average Turnaround	10,25
Average Respon	4,75

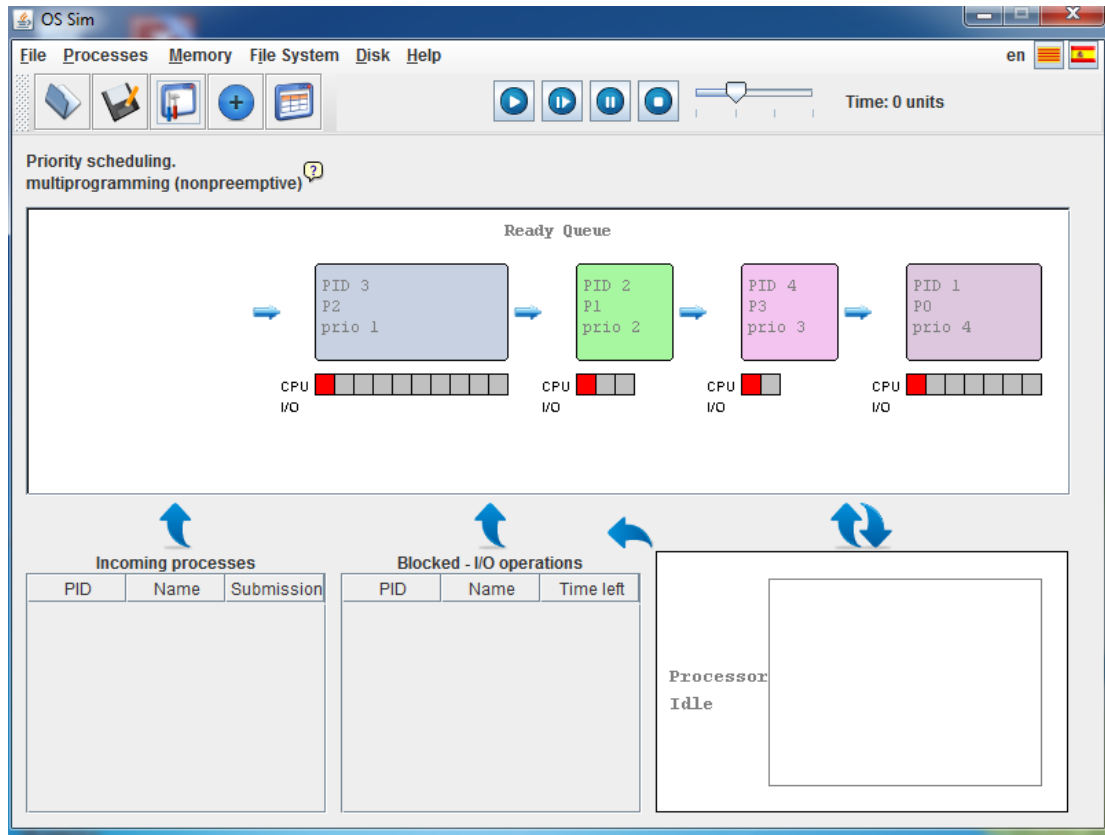
b) Nonpreemptive





Process	Waiting Time
P0	5
P1	2
P2	12
P3	0
Average Waiting Time	4,75
Average Turnaround	10,25
Average Respon	4,75

### 3. Priority Sceduling



OS Sim

File Processes Memory File System Disk Help

en

Time: 23 units

Process Scheduling Information

Efficiency (%) 0,96

Throughput (processes/time unit) 0,17

Avg. Turnaround Time (time) 12,50

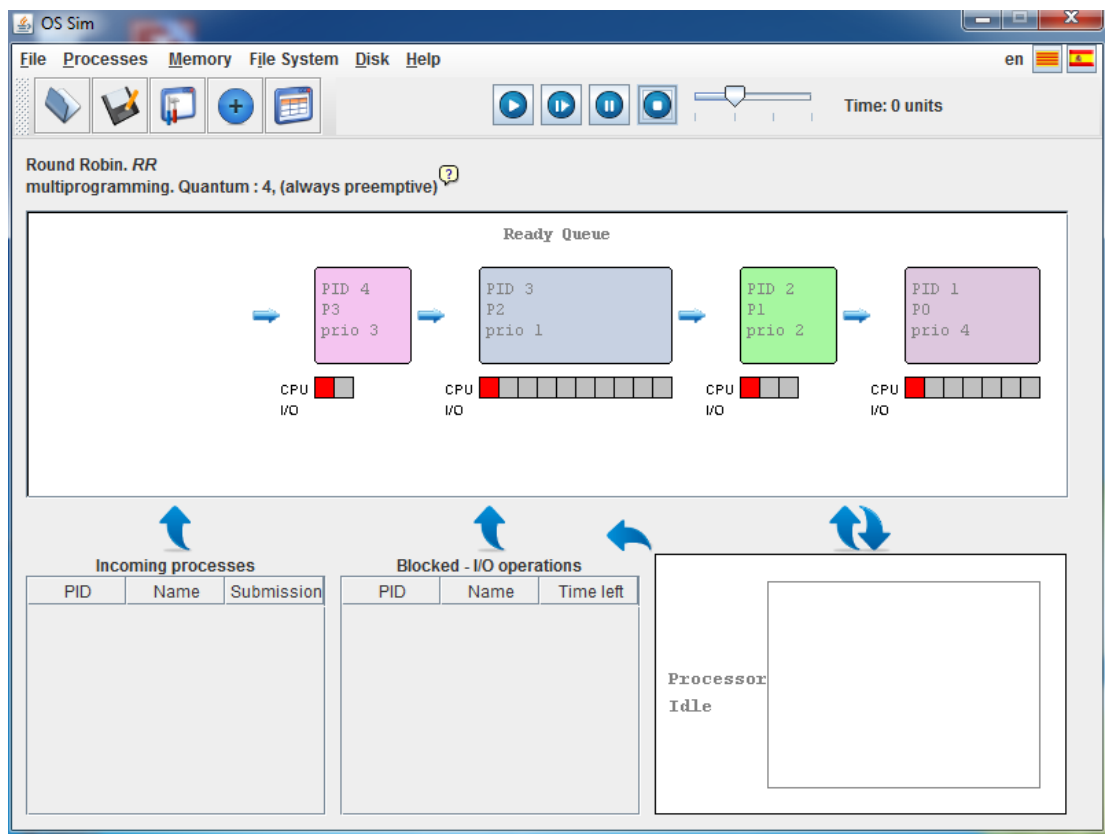
Avg. Waiting Time (time) 7,00

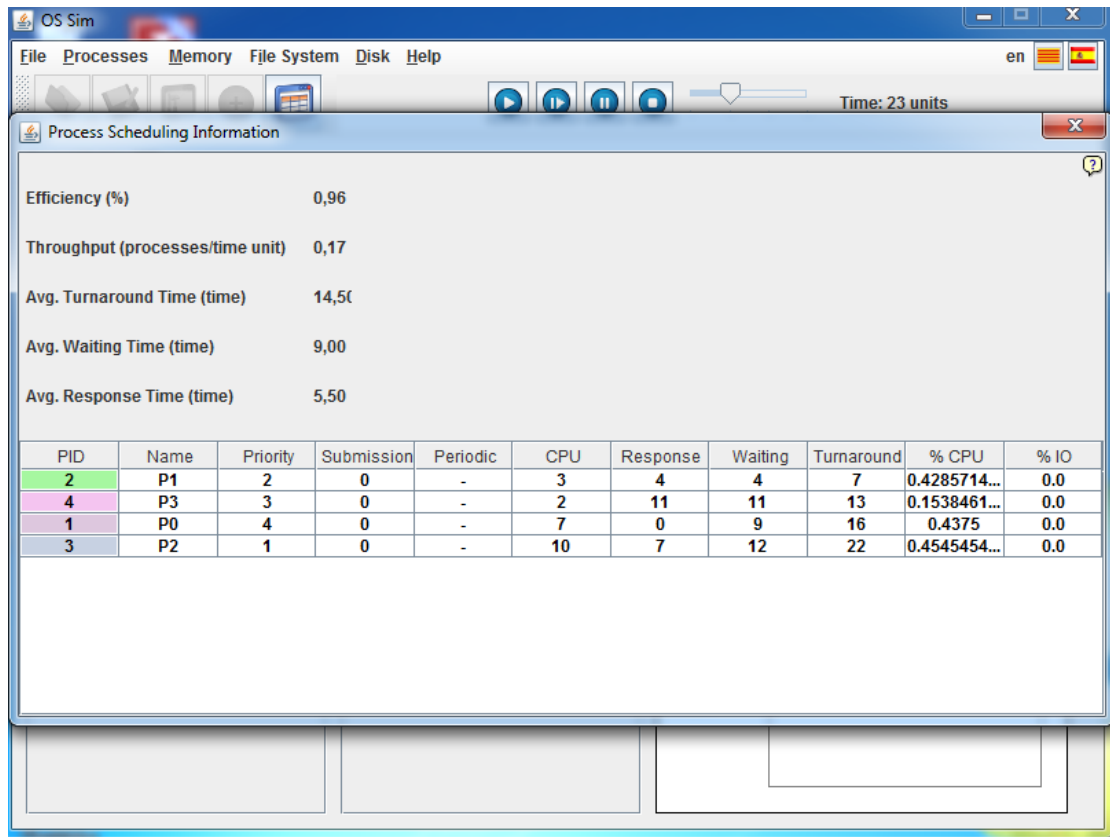
Avg. Response Time (time) 7,00

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

Process	Waiting Time
P0	0
P1	9
P2	12
P3	7
Average Waiting Time	7,00
Average Turnaround	12,50
Average Respon	7,00

#### 4. RoundRobin (Quantum time = 4)





Process	Waiting Time
P0	9
P1	4
P2	12
P3	11
Average Waiting Time	9,00
Average Turnaround	14,50
Average Respon	5,50