

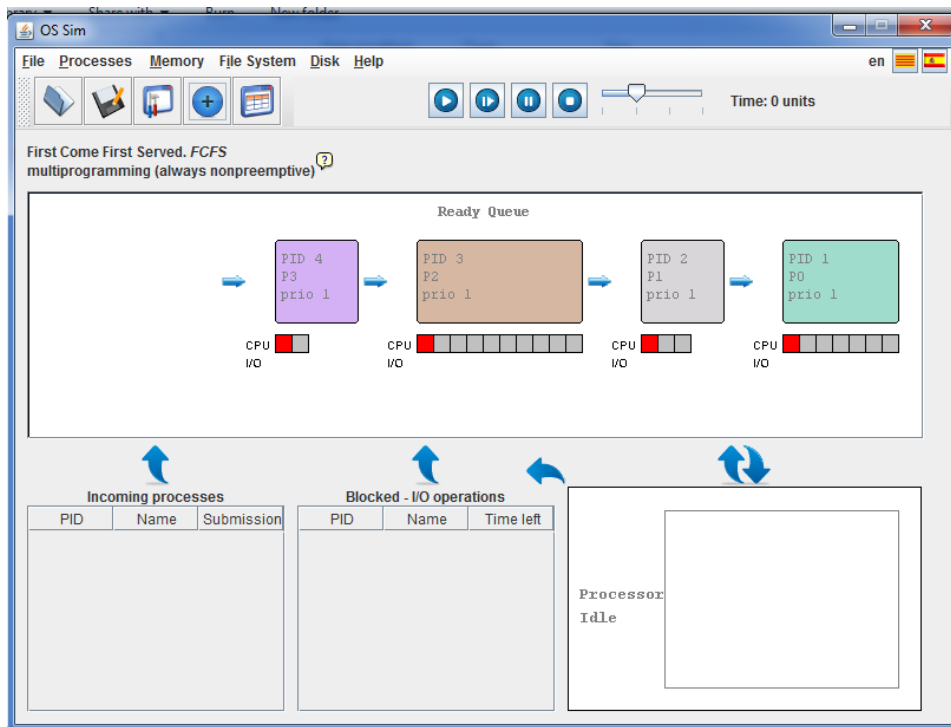
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L200180131 / C

Praktikum Sistem Operasi Modul 11

PROSES	BURST TIME	PRIORITY
P0	7	4
P1	3	2
P2	10	1
P3	2	3

A. FCFS



Process Scheduling Information

Efficiency (%) 0.88

Throughput (processes/time unit) 0.16

Avg. Turnaround Time (time) 14.75

Avg. Waiting Time (time) 9.25

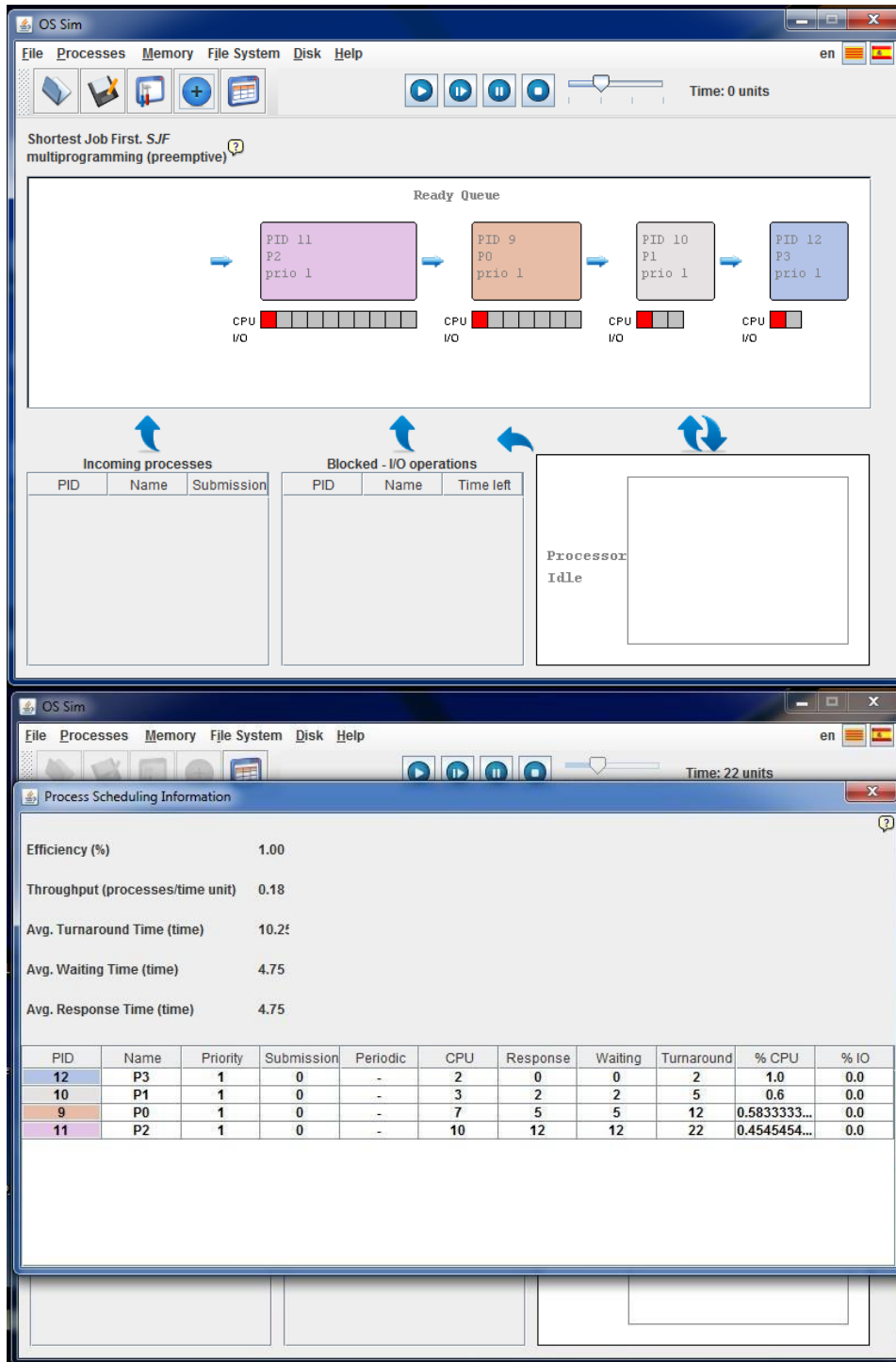
Avg. Response Time (time) 9.25

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

PROSES	WAIT TIME
P0	0
P1	7
P2	20
P3	22
AV. WAITING TIME	9.25
AV. TURNAROUND	14.75
AV. RESPONSE	9.25

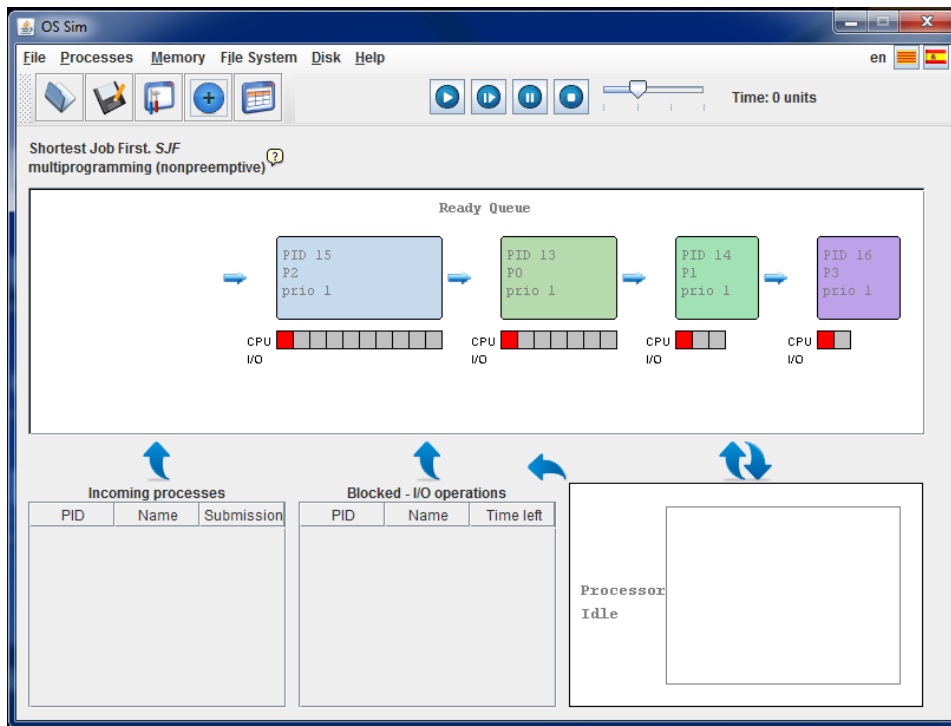
B. SJFS

- Premptive



PROSES	WAIT TIME
P0	5
P1	2
P2	12
P3	0
AV. WAITING TIME	4.75
AV. TURNAROUND	10.25
AV. RESPONSE	4.75

- **Non-Premptive**

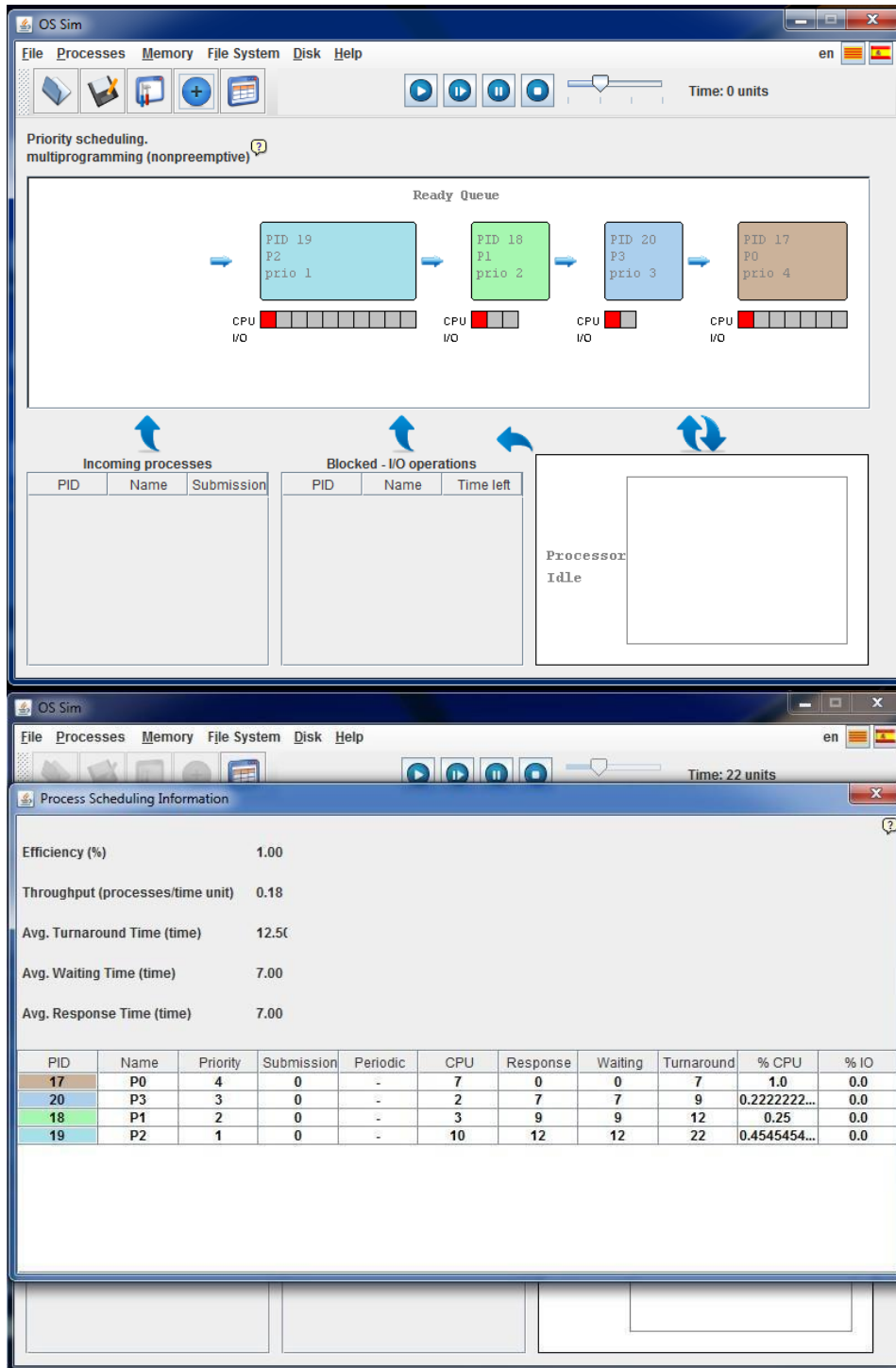


The screenshot shows the 'Process Scheduling Information' window. It displays various performance metrics and a table of process statistics.

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

PROSES	WAIT TIME
P0	5
P1	2
P2	12
P3	0
AV. WAITING TIME	4.75
AV. TURNAROUND	10.25
AV. RESPONSE	4.75

C. PRIORITY SCHEDULING



PROSES	WAIT TIME
P0	0
P1	9
P2	12
P3	7
AV. WAITING TIME	7.00
AV. TURNAROUND	12.50
AV. RESPONSE	7.00

D. ROUND ROBIN (QUANTUM = 4)

OS Sim

File Processes Memory File System Disk Help

en

Time: 0 units

Round Robin, RR
multiprogramming, Quantum : 4, (always preemptive)

Ready Queue

PID 24
P3
prio 1

PID 23
P2
prio 1

PID 22
P1
prio 1

PID 21
P0
prio 1

CPU I/O

Incoming processes

PID	Name	Submission

Blocked - I/O operations

PID	Name	Time left

Processor
Idle

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) 14.50

Avg. Waiting Time (time) 9.00

Avg. Response Time (time) 5.50

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

PROSES	WAIT TIME
P0	9
P1	4
P2	12
P3	11
AV. WAITING TIME	9.00
AV. TURNAROUND	14.50
AV. RESPONSE	5.50