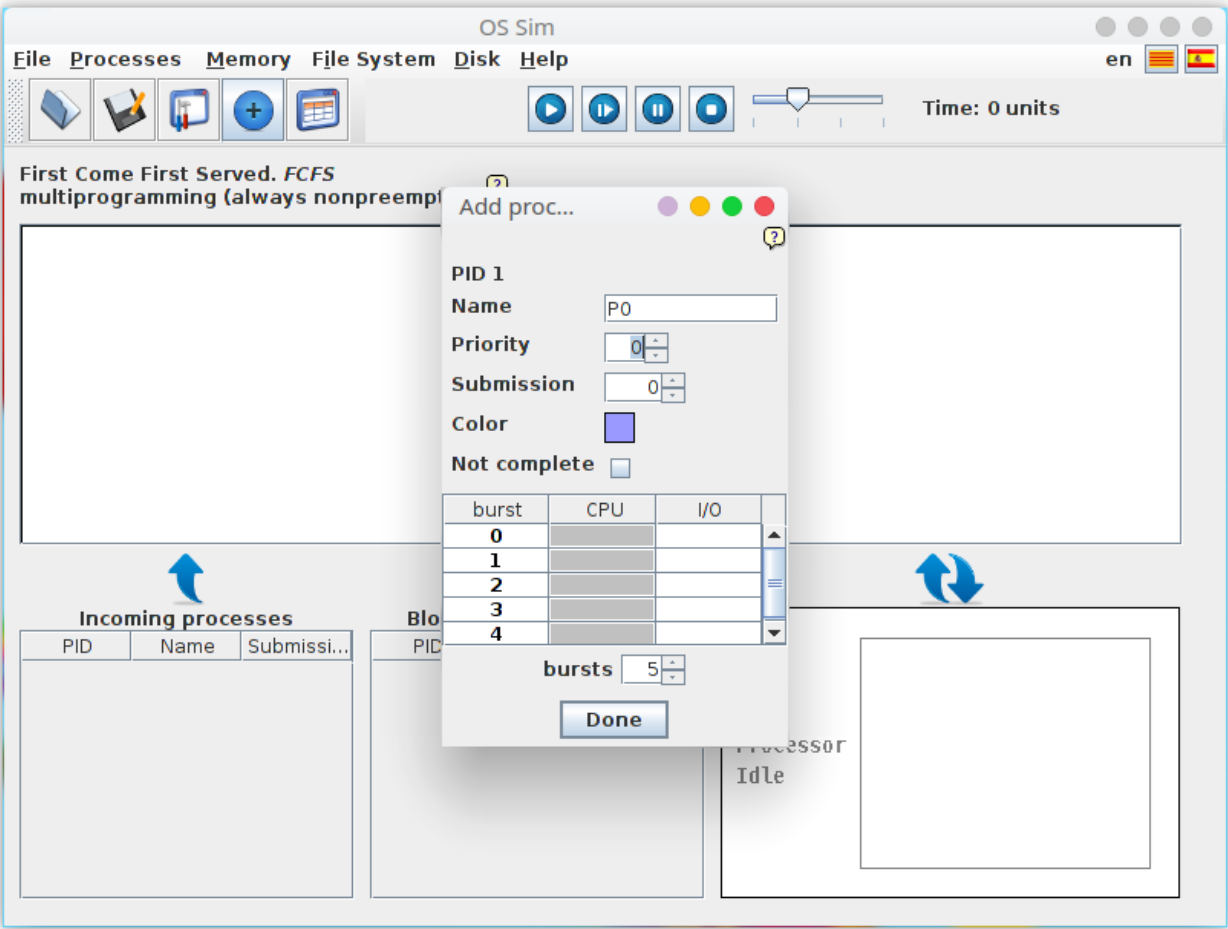
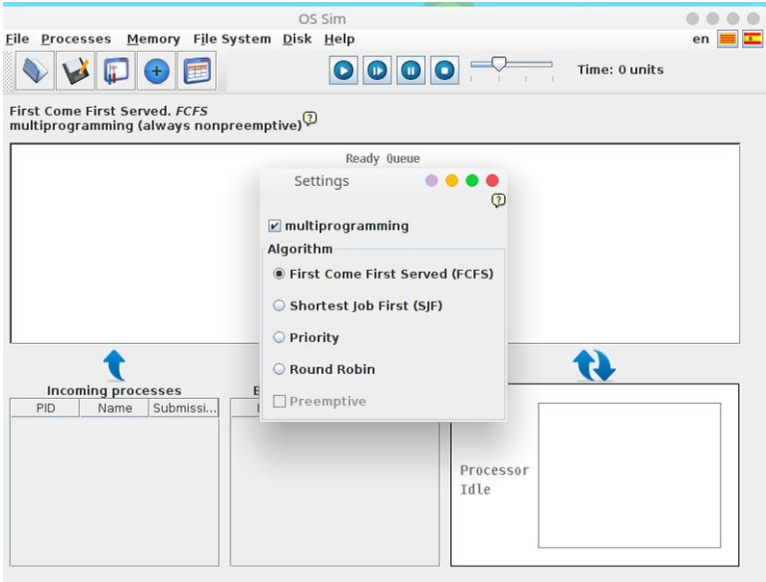
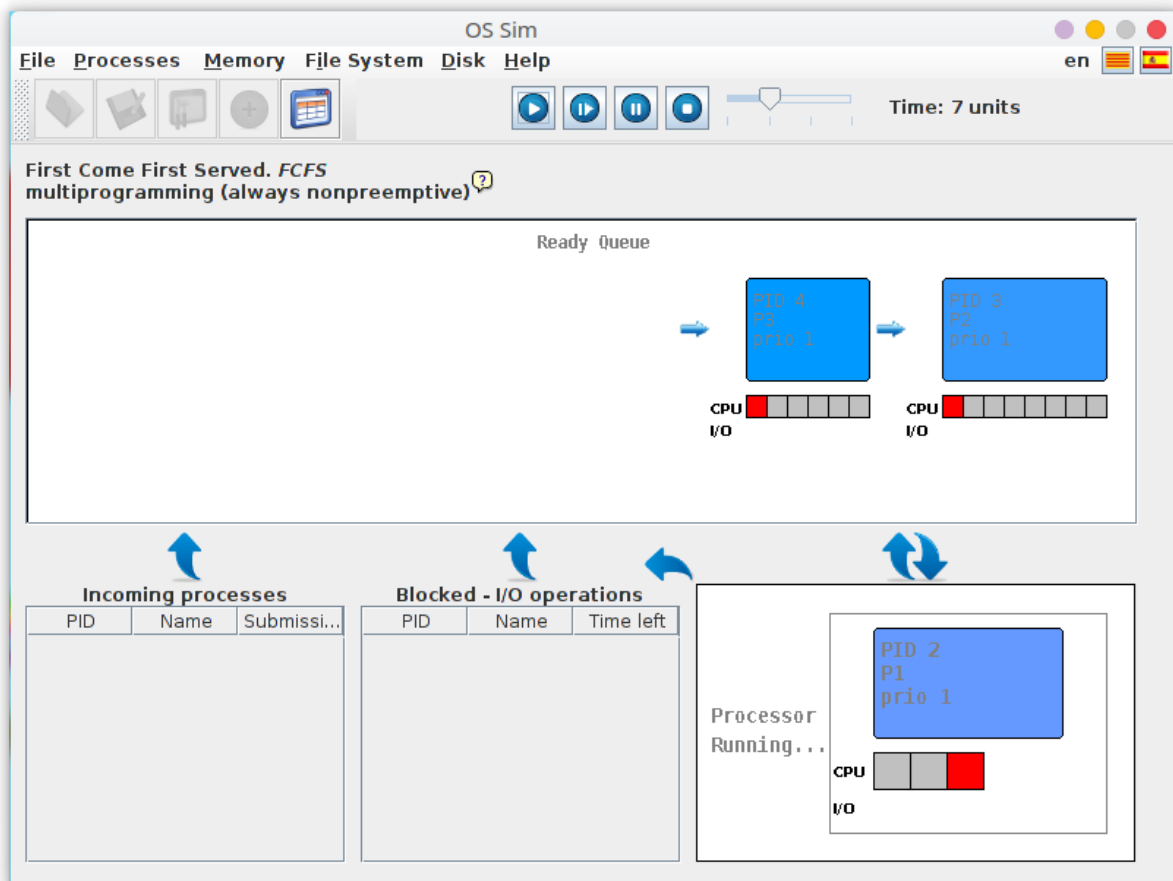
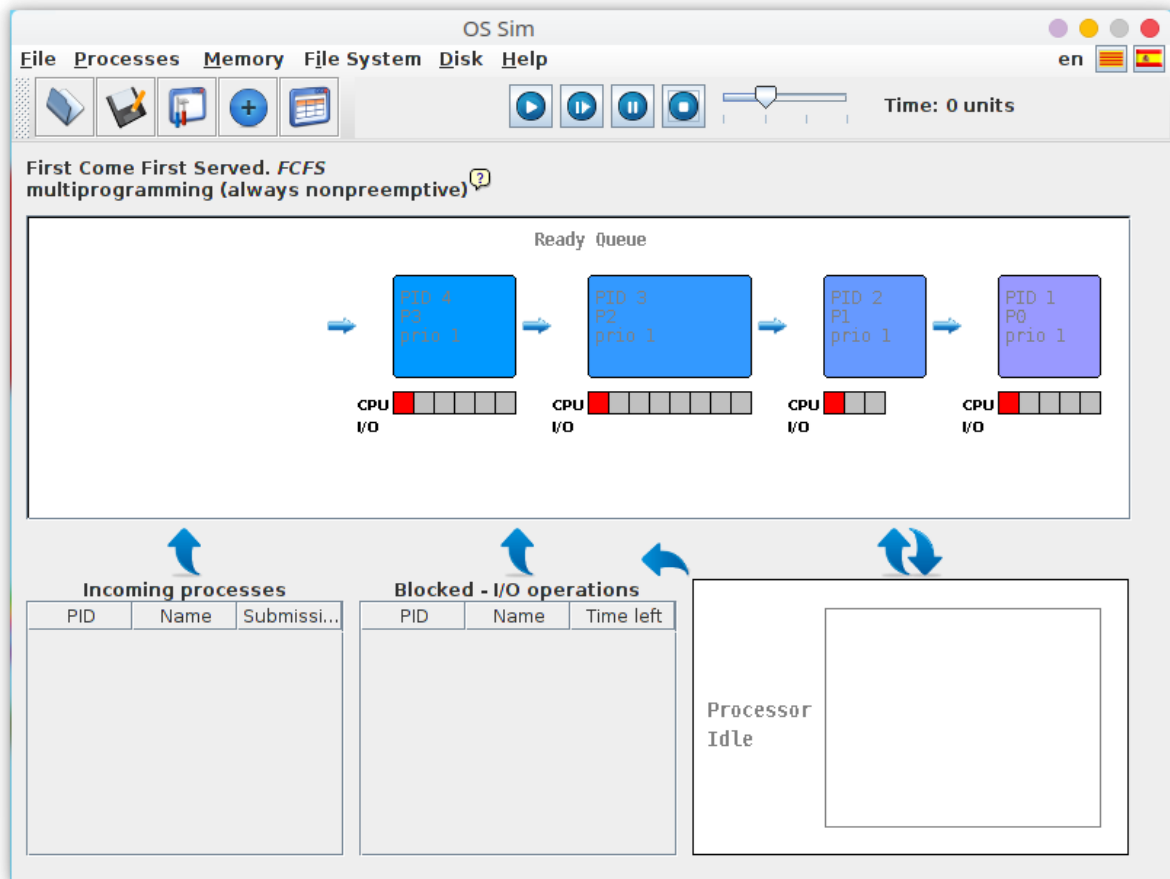


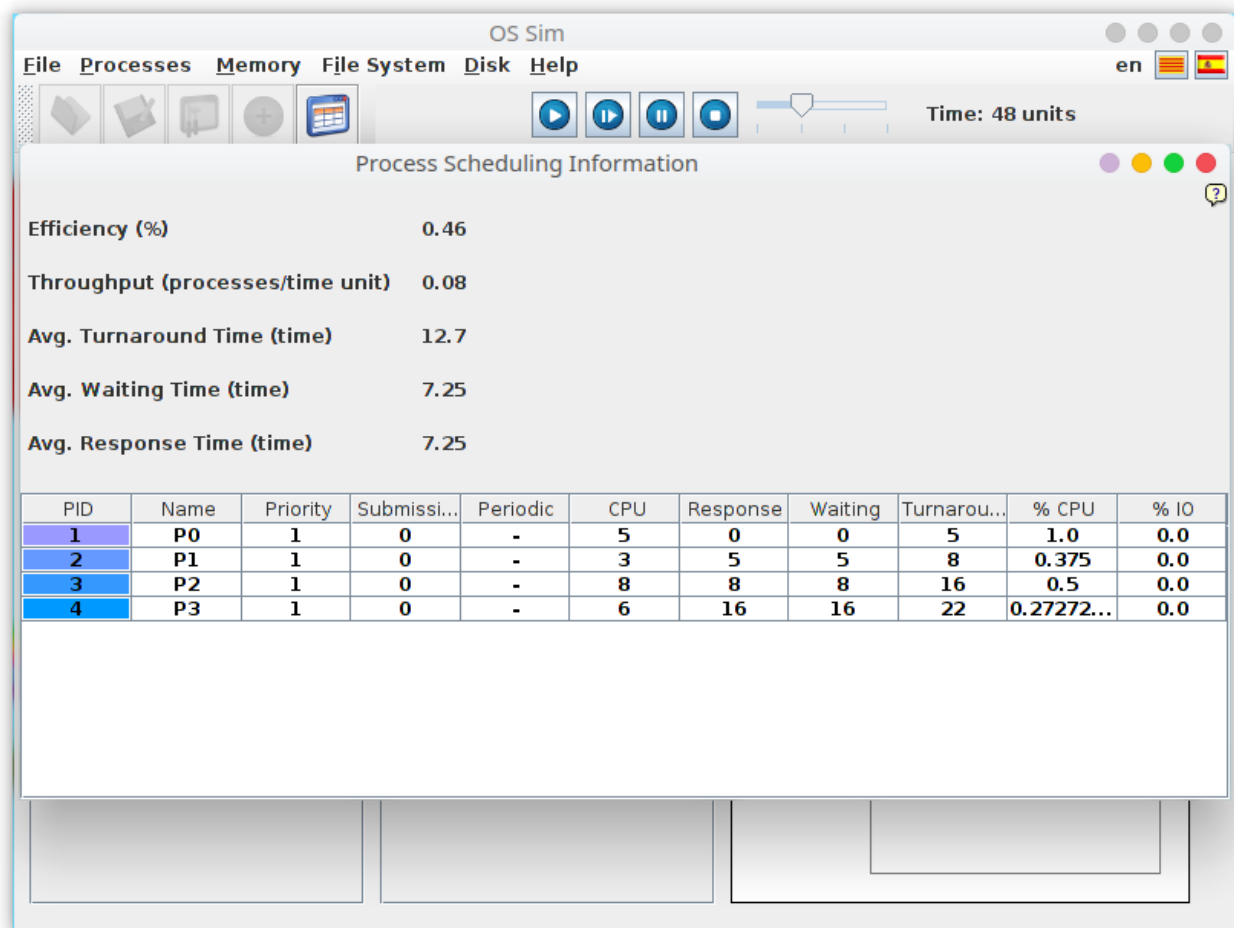
Nama : Berlian Vidia Puspa
NIM : L200180107

MODUL 11

1. Penjadwalan Proses
- FCFS

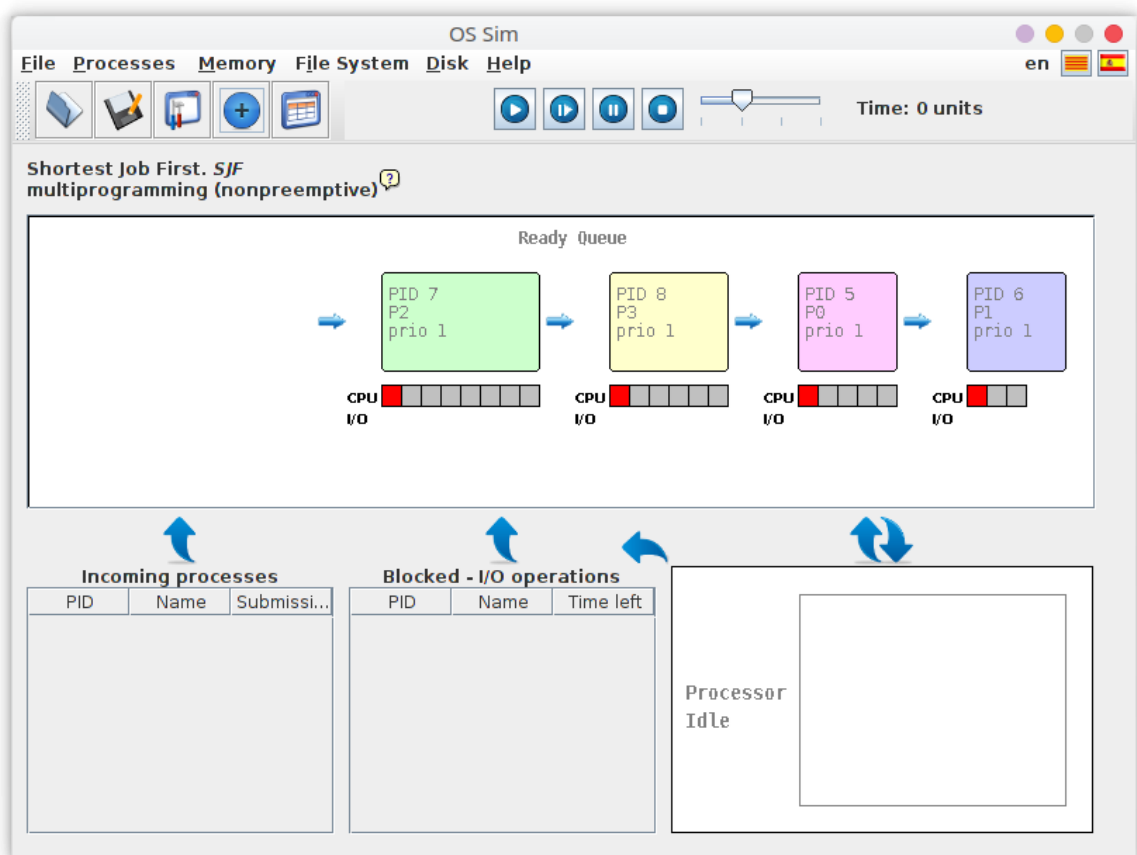
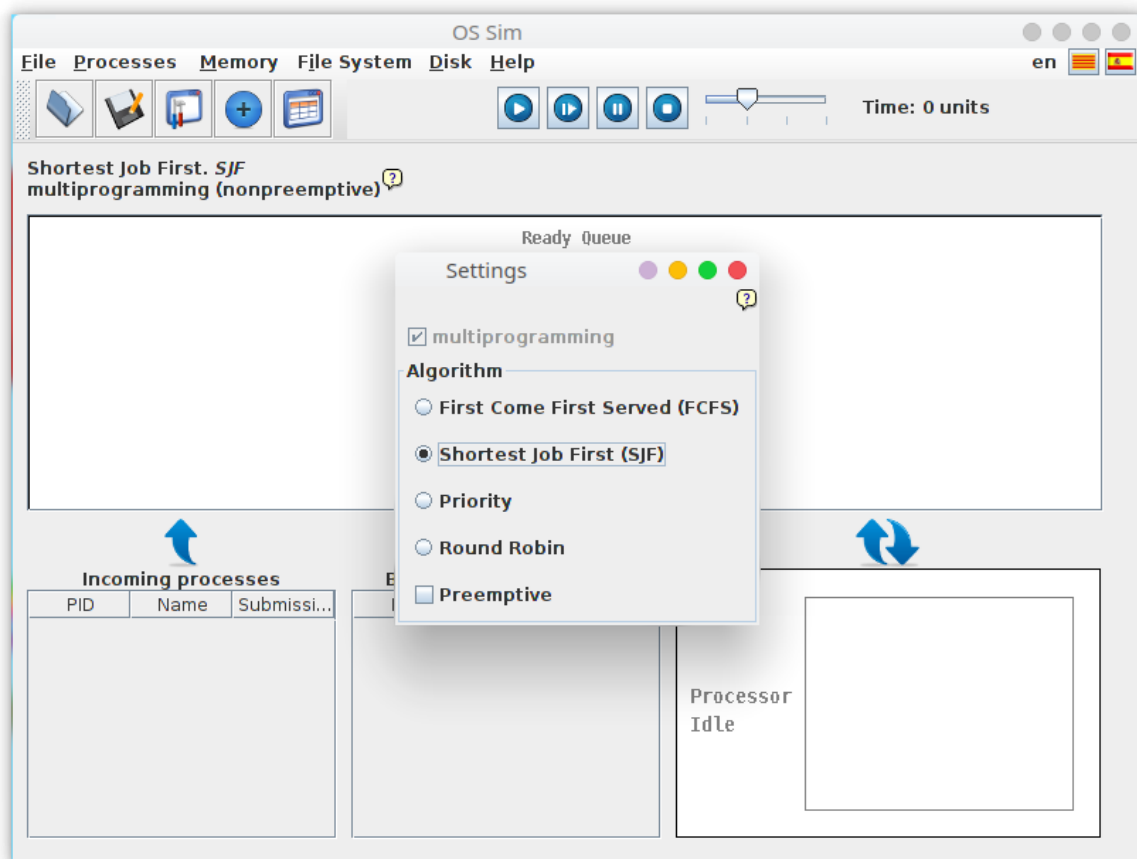


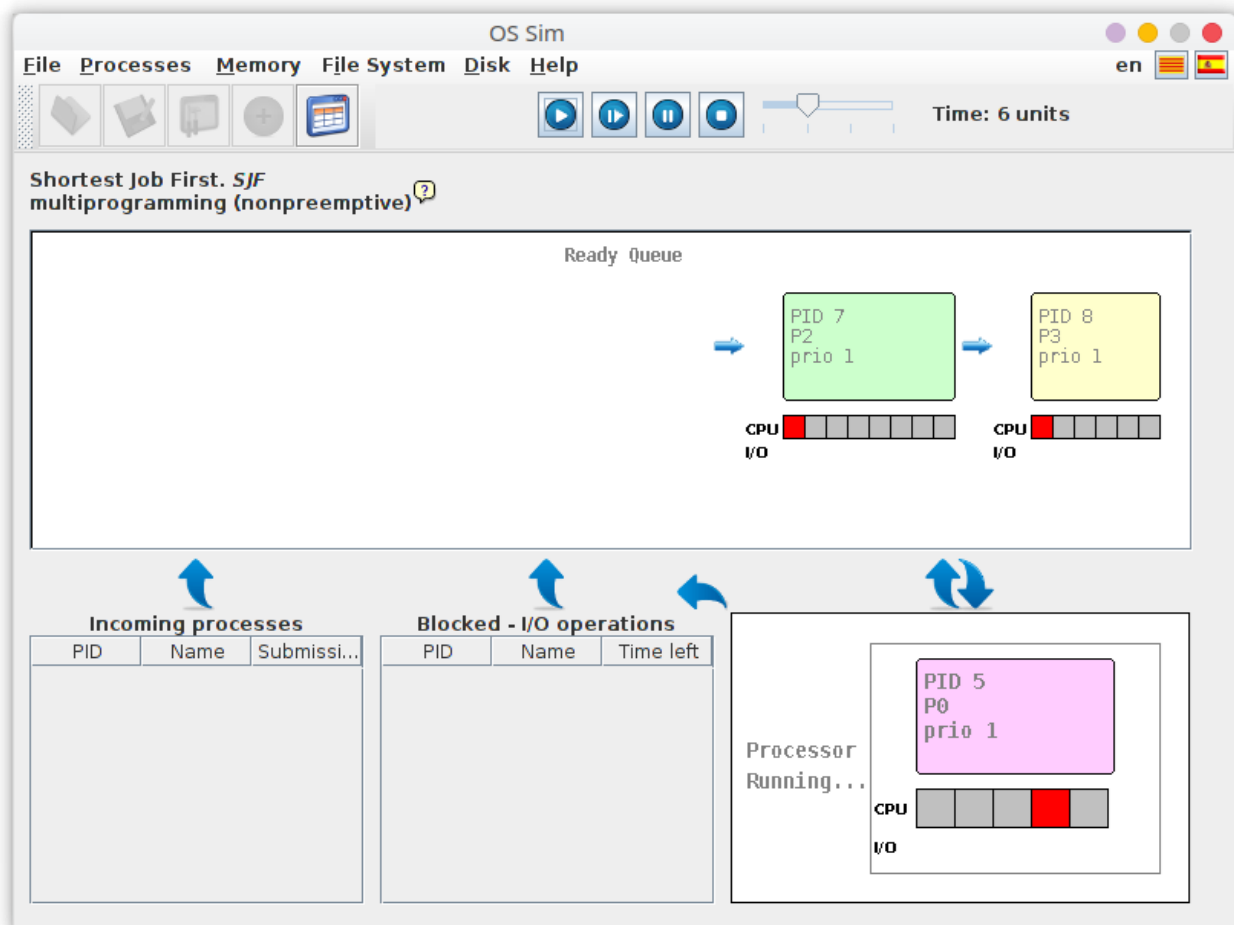


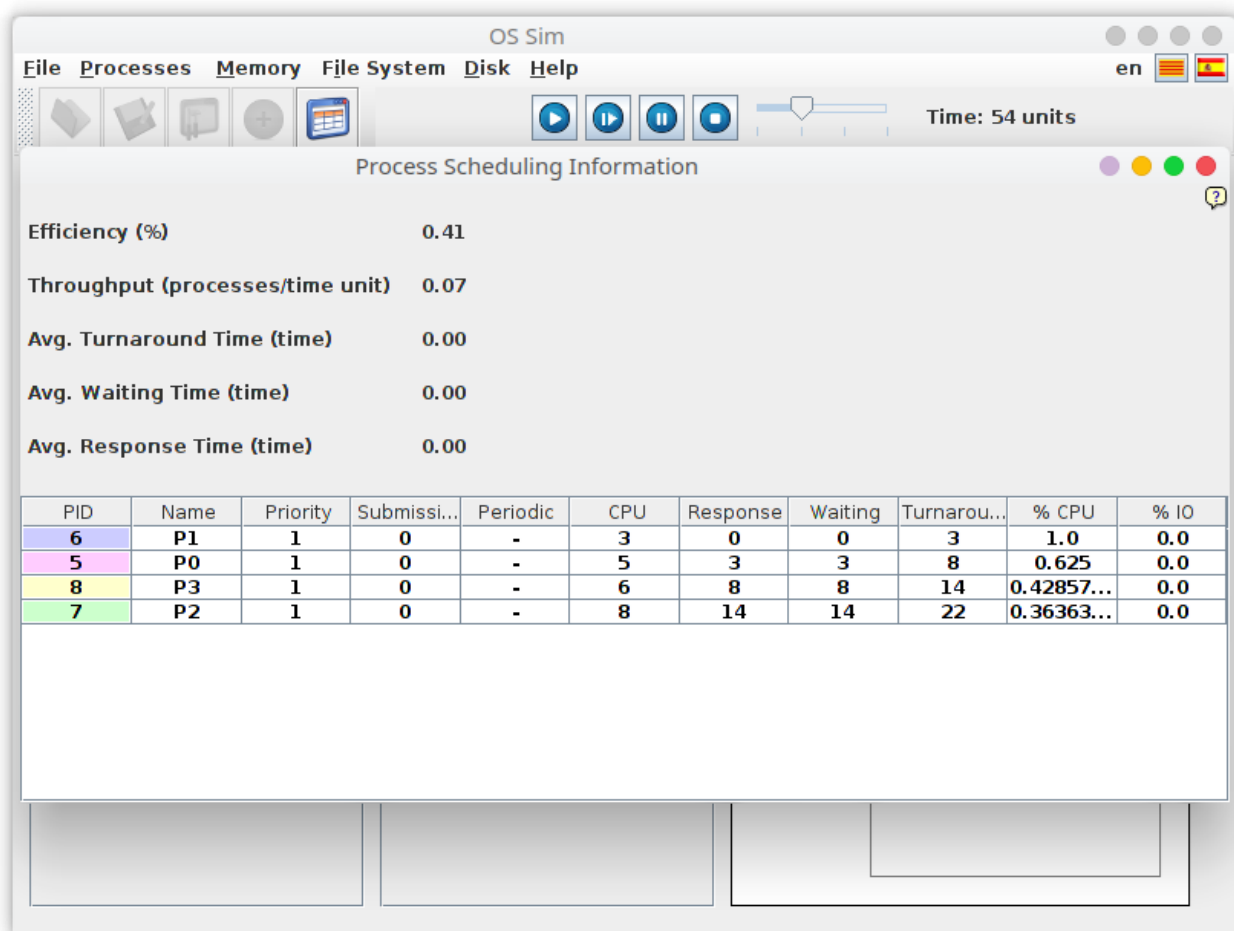


Process	Wait Time
P0	0
P1	5
P2	8
P3	16
Avg. waiting time	7.25

- SJF
@Non Preemptive

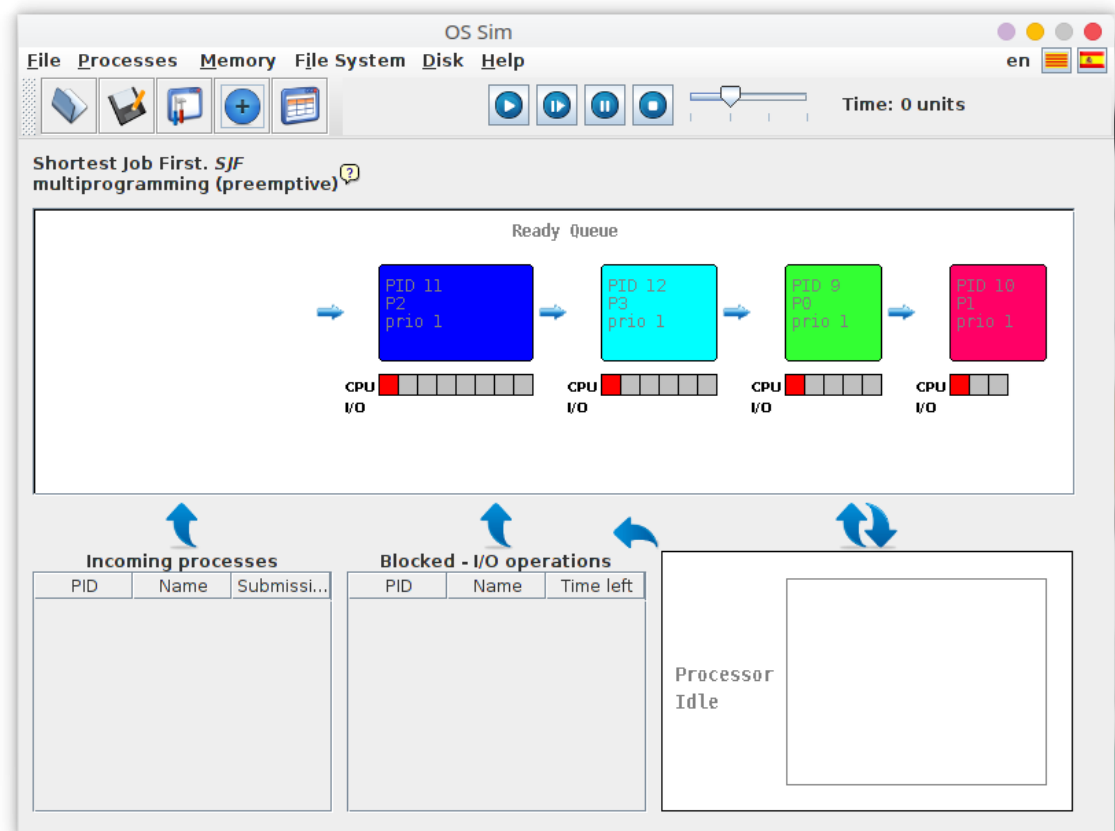
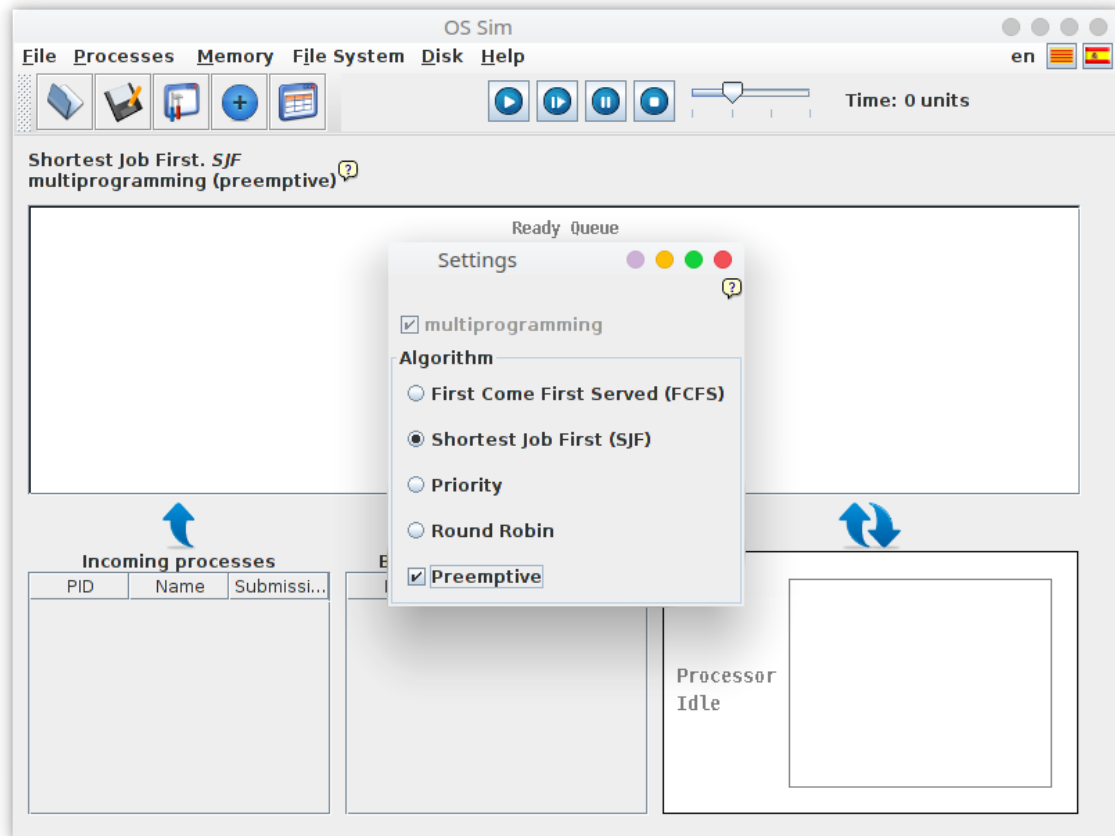


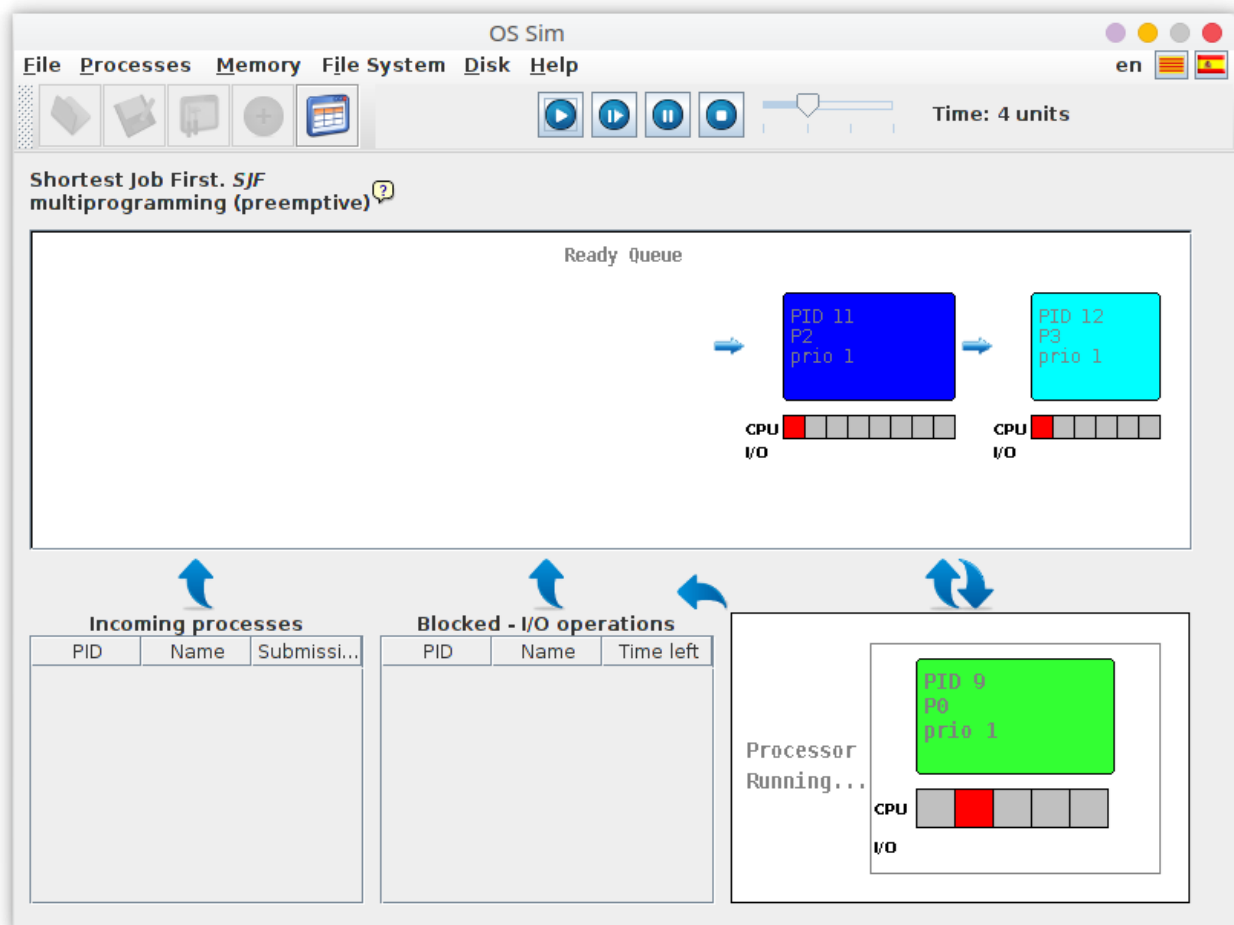


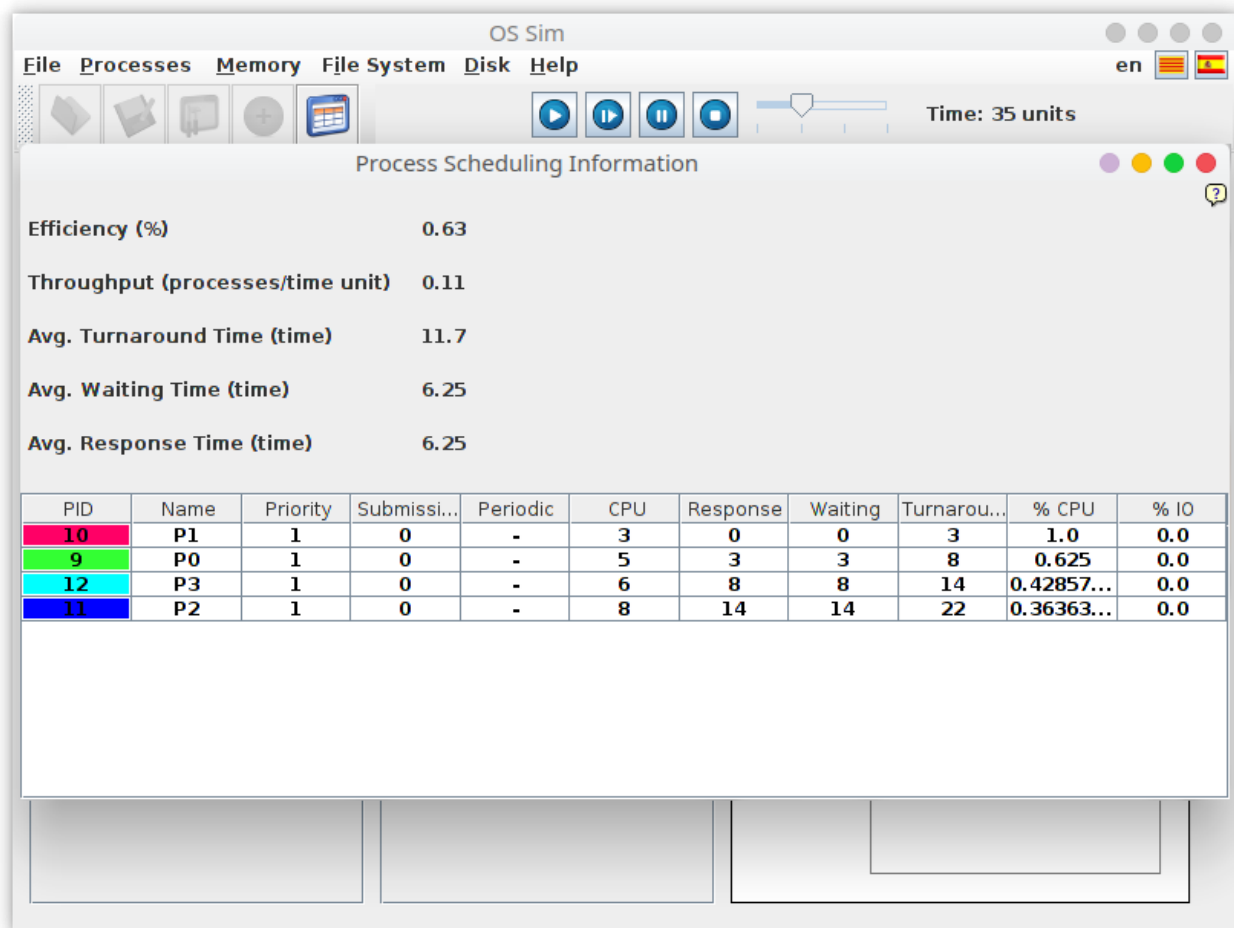


Process	Wait Time
P0	3
P1	0
P2	14
P3	8
Avg. waiting time	0.00

@Preemptive

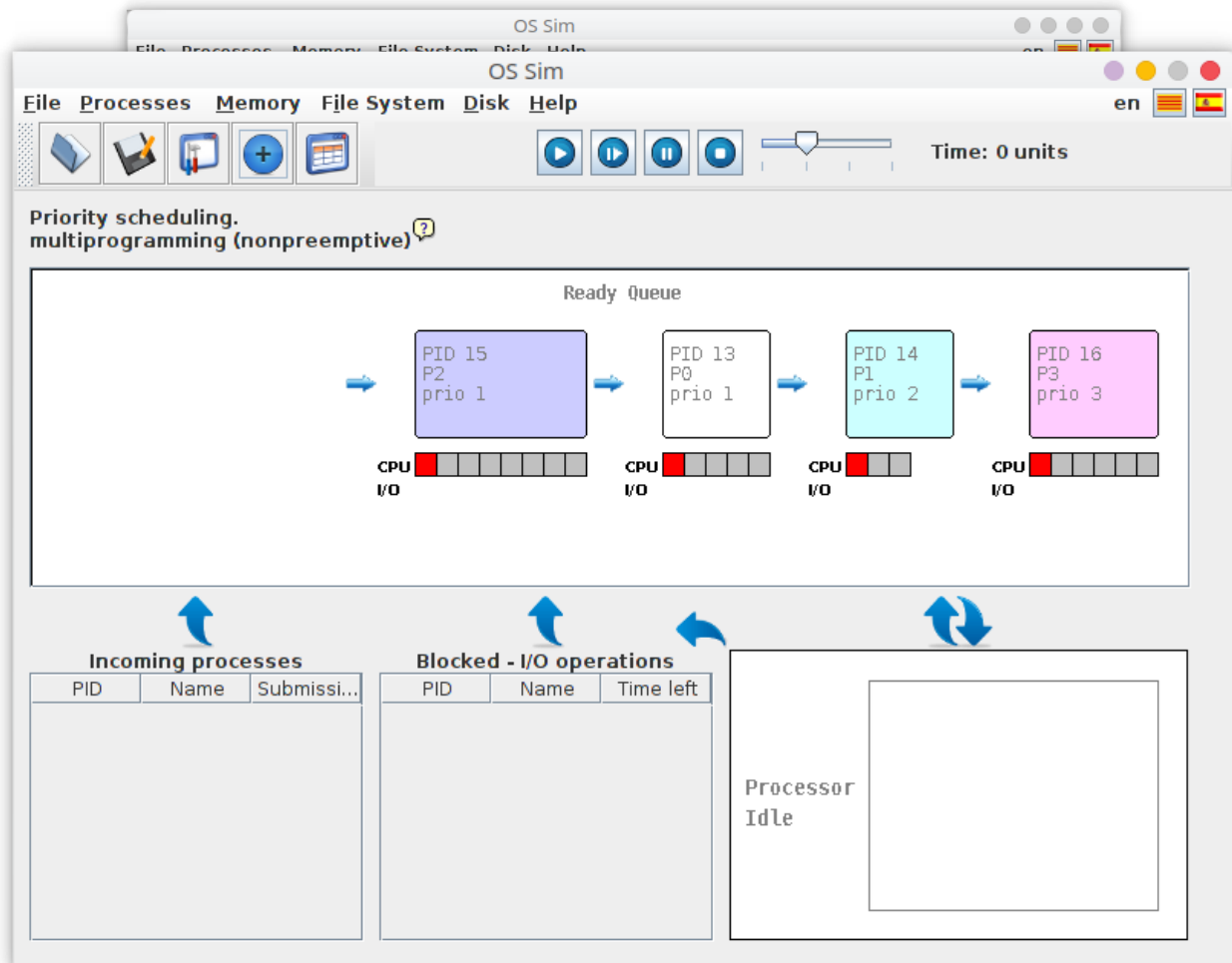


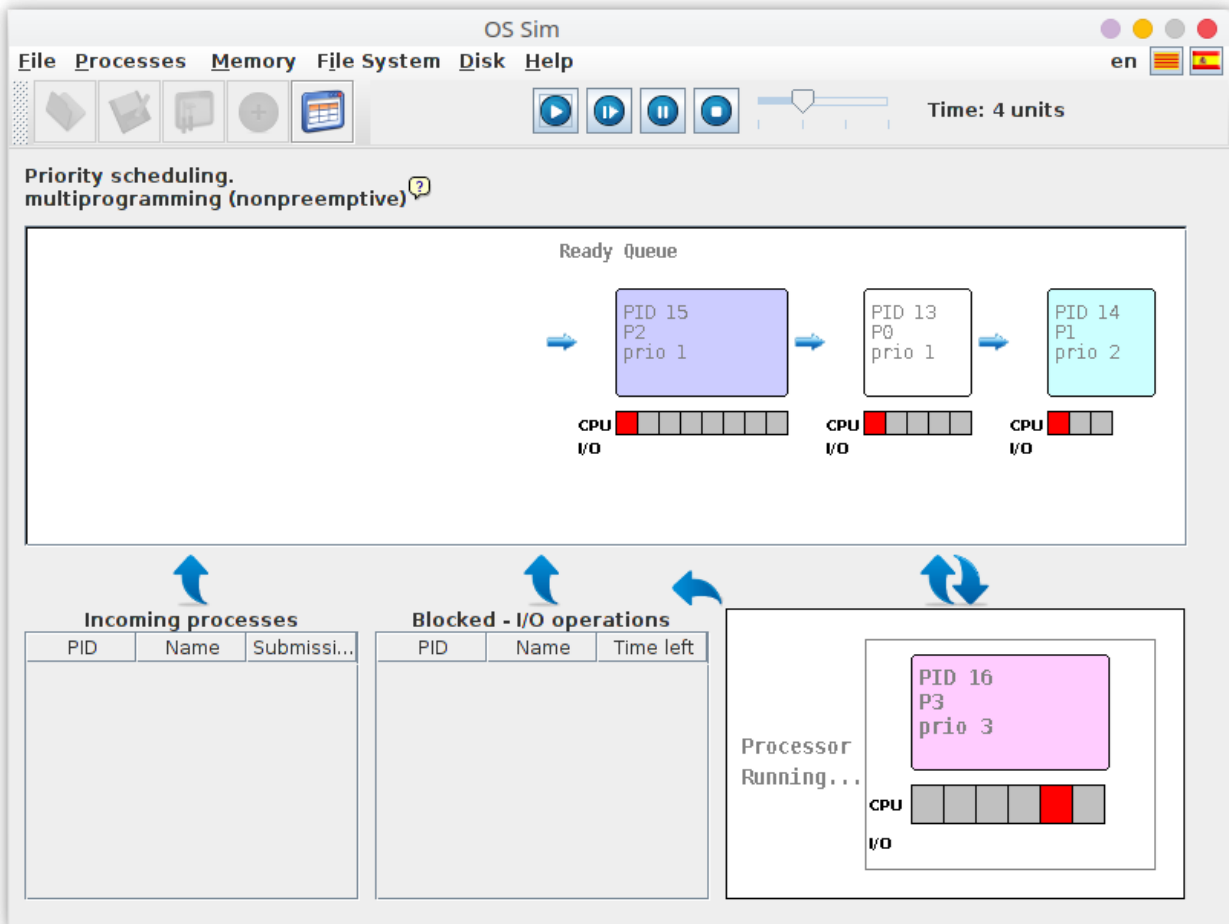


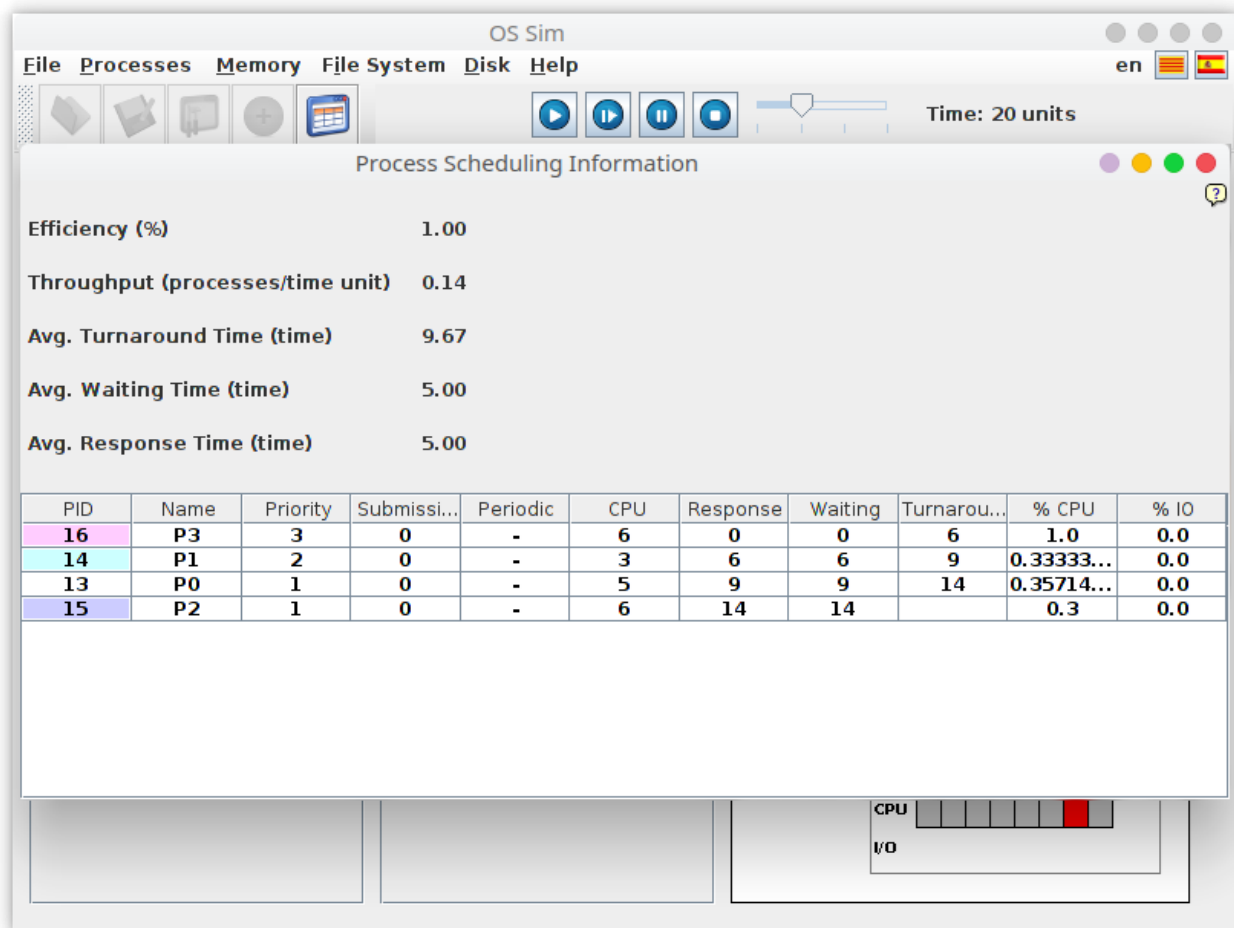


Process	Wait Time
P0	3
P1	0
P2	14
P3	8
Avg. waiting time	6.25

- Priority Scheduling

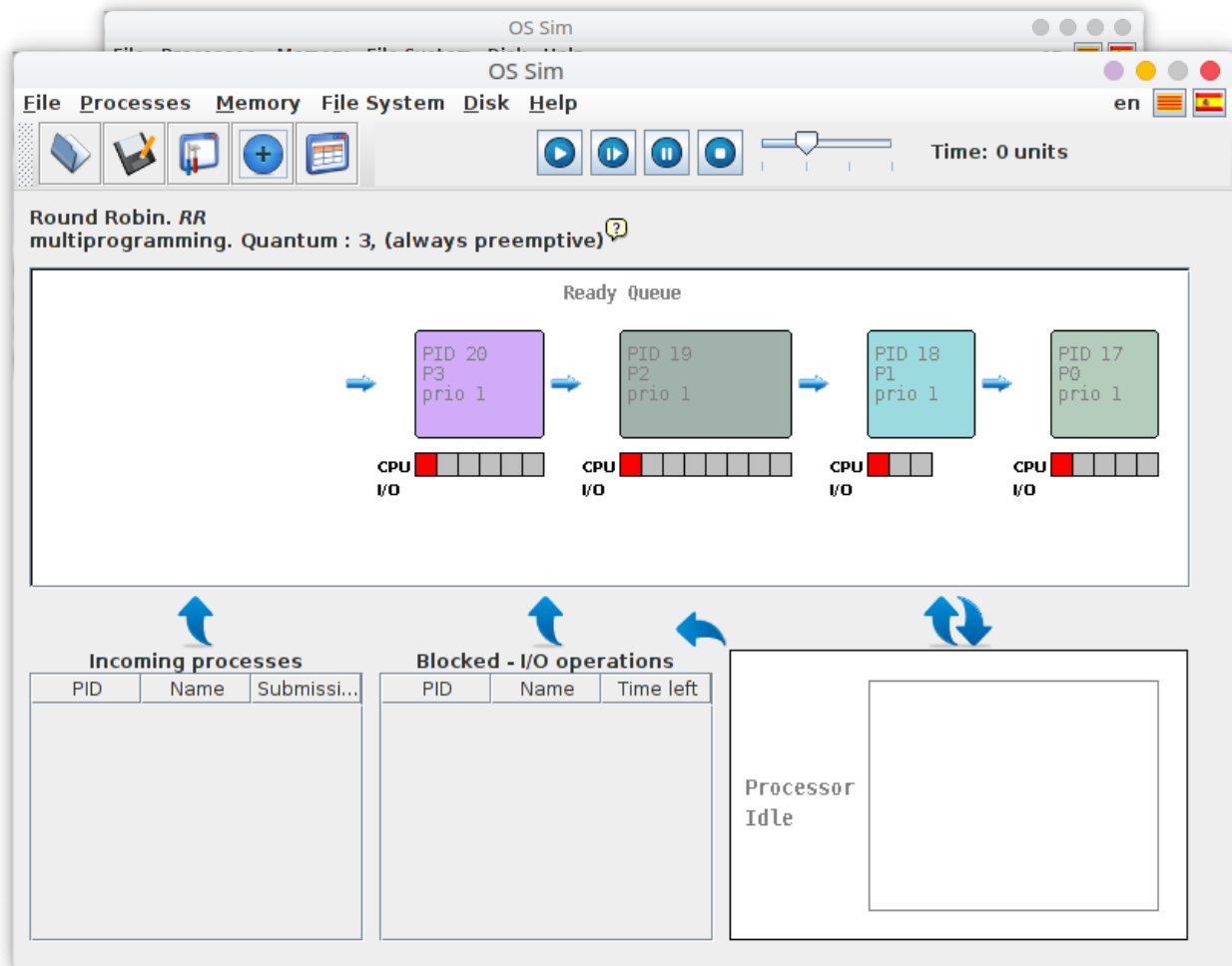


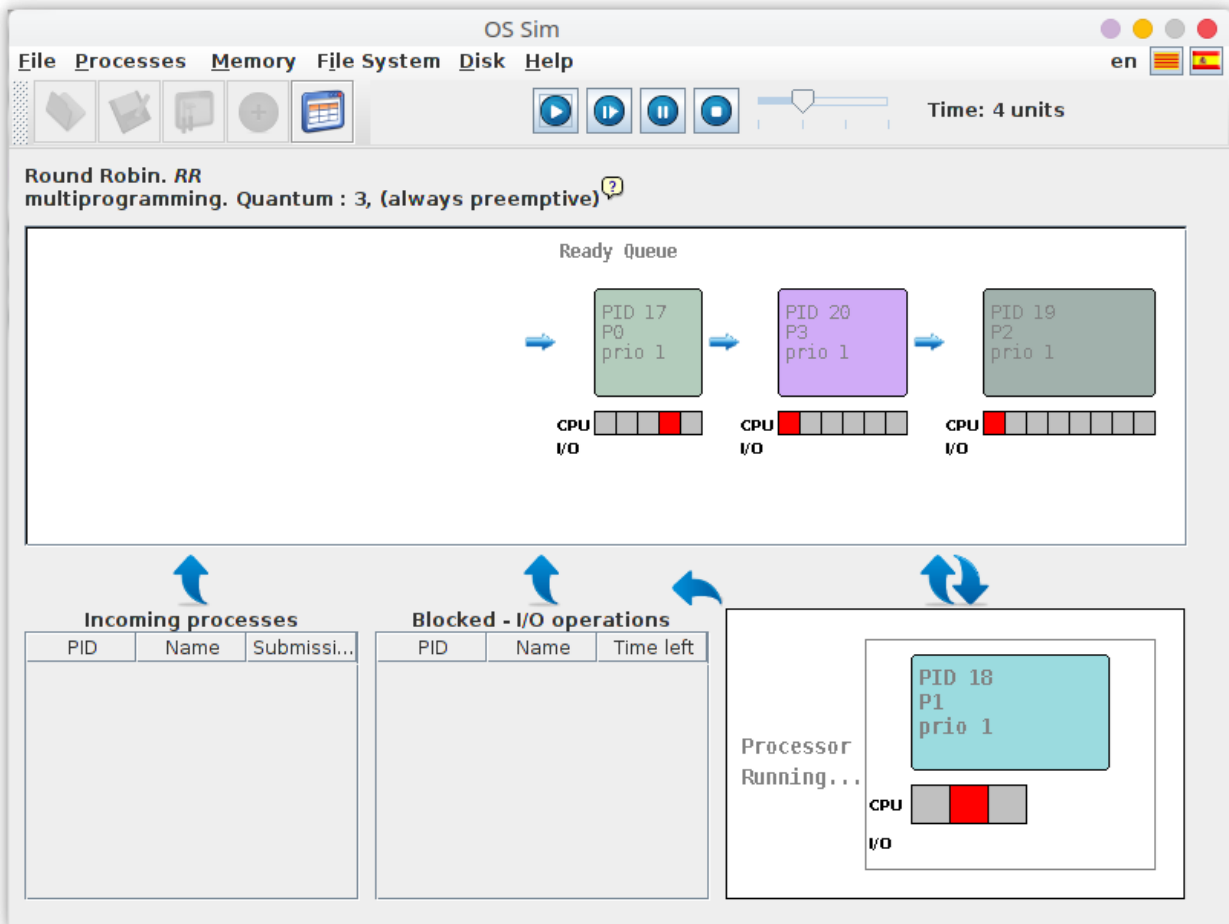


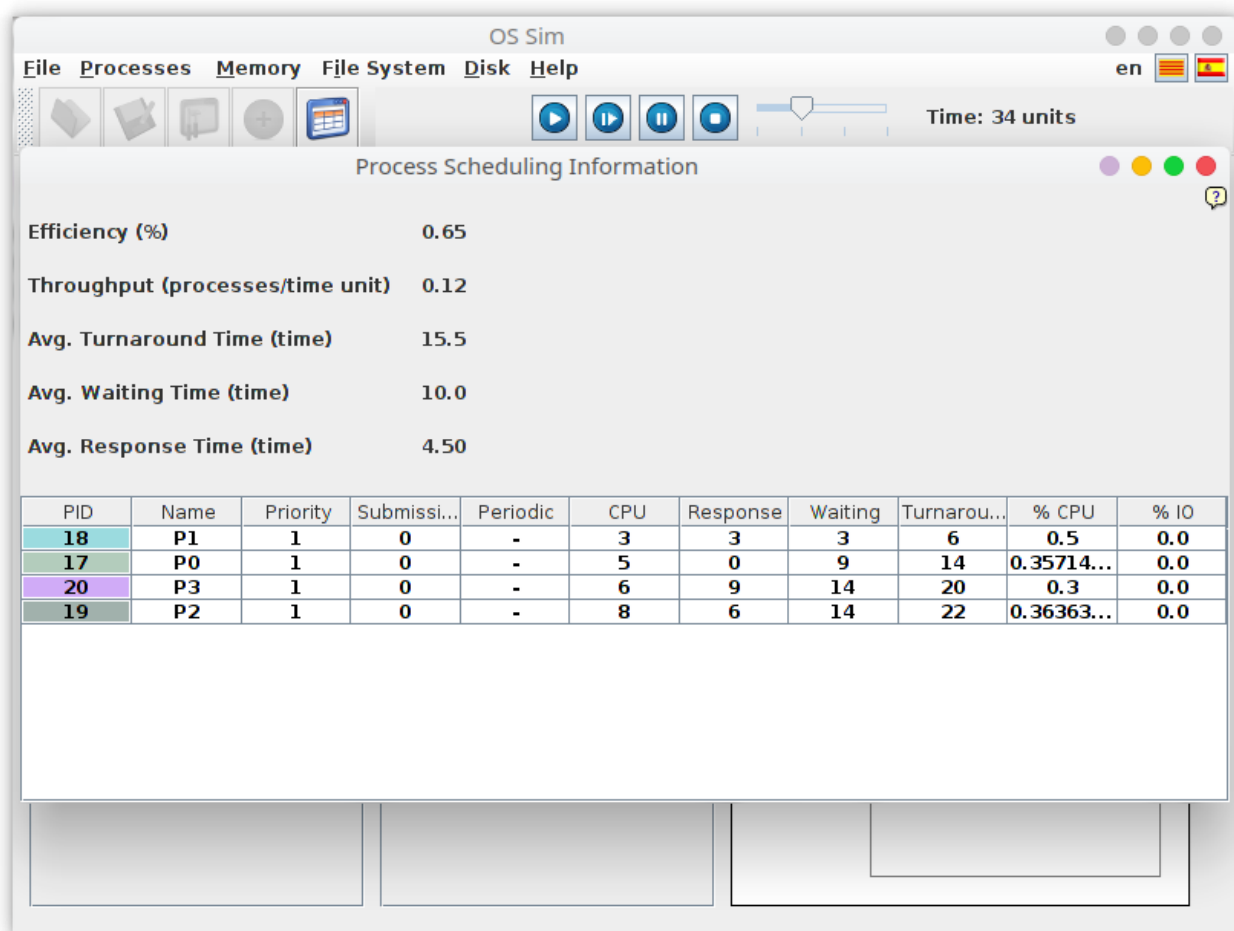


Process	Wait Time
P0	9
P1	6
P2	14
P3	0
Avg. waiting time	5.00

- Round Robin



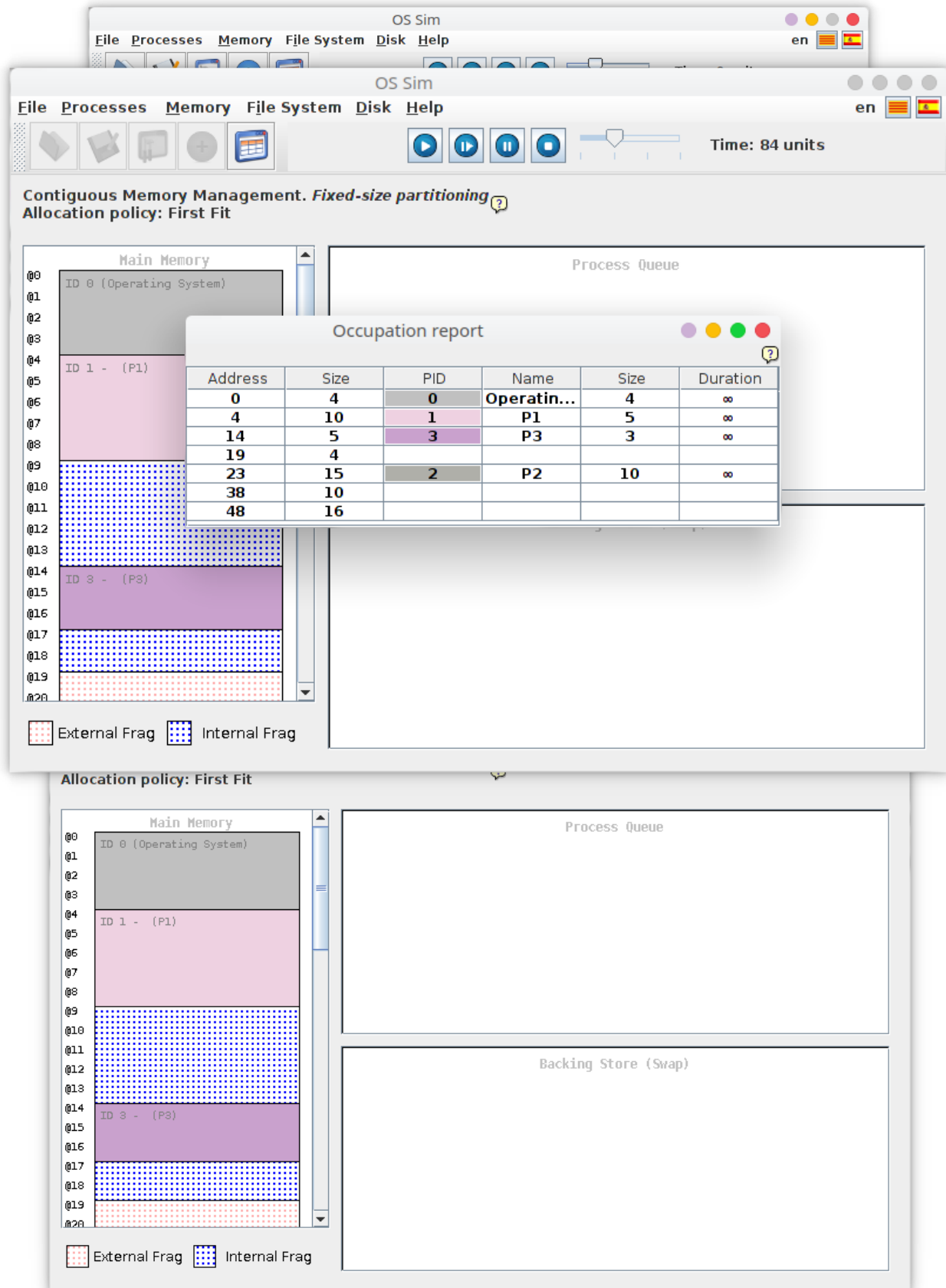




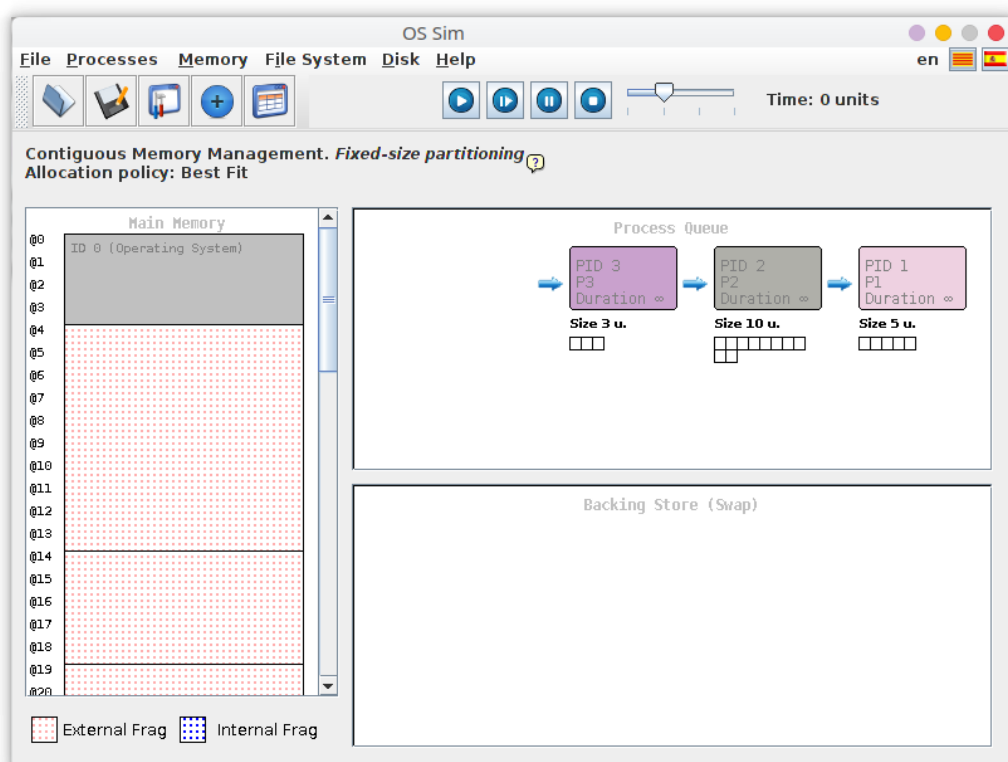
Process	Wait Time
P0	9
P1	3
P2	14
P3	14
Avg. waiting time	10.0

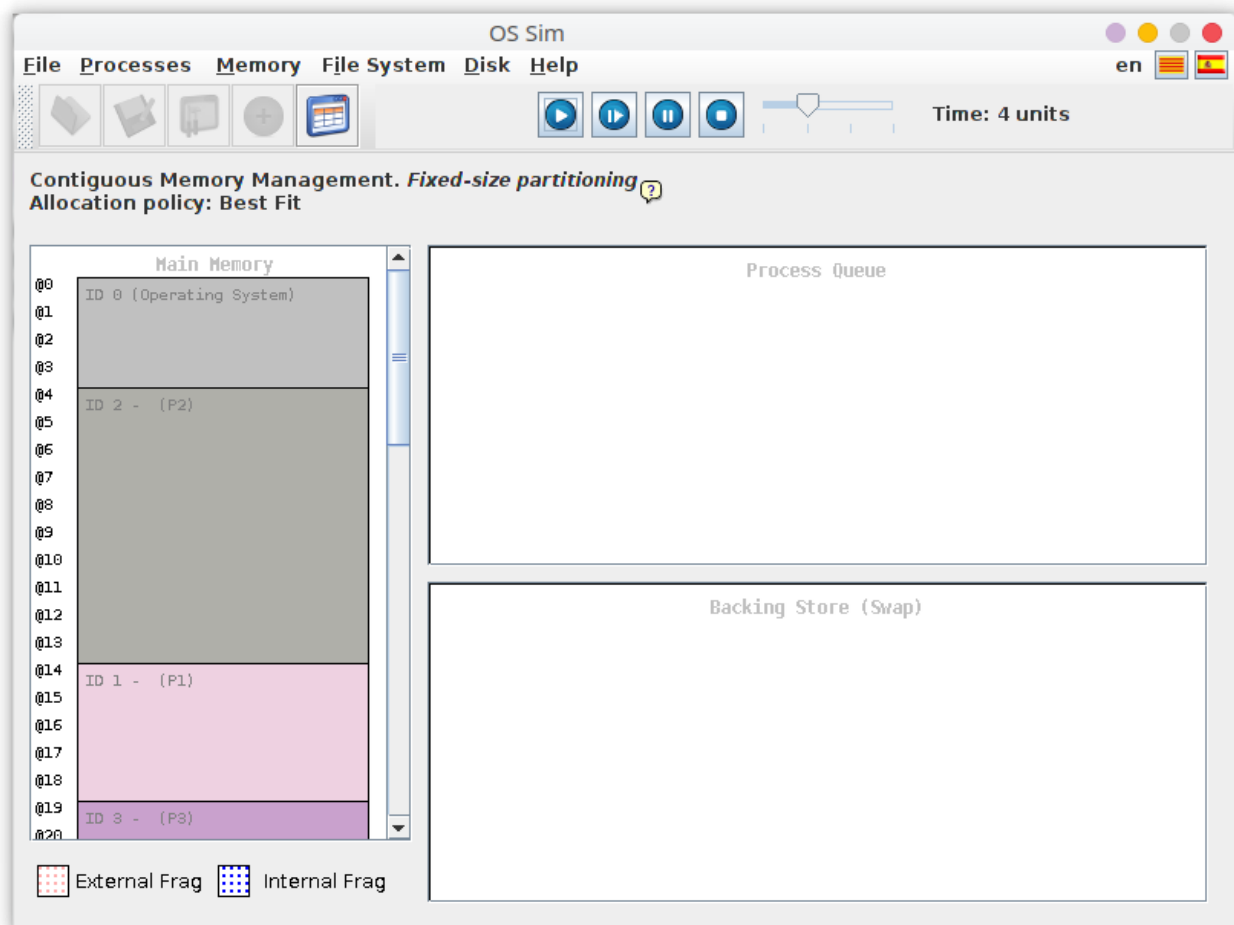
2. Manajemen Memori

- *Contiguous memory management dengan menggunakan partisi berukuran tetap (fixed-size partition)*



- Contiguous memory management dengan menggunakan partisi berukuran tetap (fixed-size partition) >> Best Fit





OS Sim

FileProcessesMemoryFile SystemDiskHelp

Time: 36 units

Contiguous Memory Management. Fixed-size partitioning

Allocation policy: Best Fit

Main Memory

00

01

02

03

04

05

06

07

08

09

10

11

12

13

14

15

16

17

18

19

20

ID 0 (Operating S

ID 2 - (P2)

ID 1 - (P1)

ID 3 - (P3)

Process Queue

Occupation report

Address	Size	PID	Name	Size	Duration
0	4	0	Operatin...	4	∞
4	10	2	P2	10	∞
14	5	1	P1	5	∞
19	4	3	P3	3	∞
23	15				
38	10				
48	16				

External Frag

Internal Frag

- **Contiguous memory management dengan menggunakan partisi berukuran tidak tetap (variable-size partition) >> Defragmentasi**

OS Sim
File Processes Memory File System Disk Help
Time: 0 units

OS Sim
File Processes Memory File System Disk Help
Time: 15 units

Contiguous Memory Management. Variable-size partitioning
Allocation policy: First Fit

Occupation report

Address	Size	PID	Name	Size	Duration
0	4	0	Operatin...	4	∞
9	8				
17	3				
20	15	5	P4	15	∞
35	2				
37	20	10	P6	20	∞
57	7				
4	3	11	P7	3	∞
7	2				

Main Memory
ID 0 (Operating System)
ID 11 - (P7)

Process Queue
PID 21
P8
Duration ∞
Size 10 u.

External Frag Internal Frag

Contiguous Memory Management. Variable-size partitioning
Allocation policy: First Fit

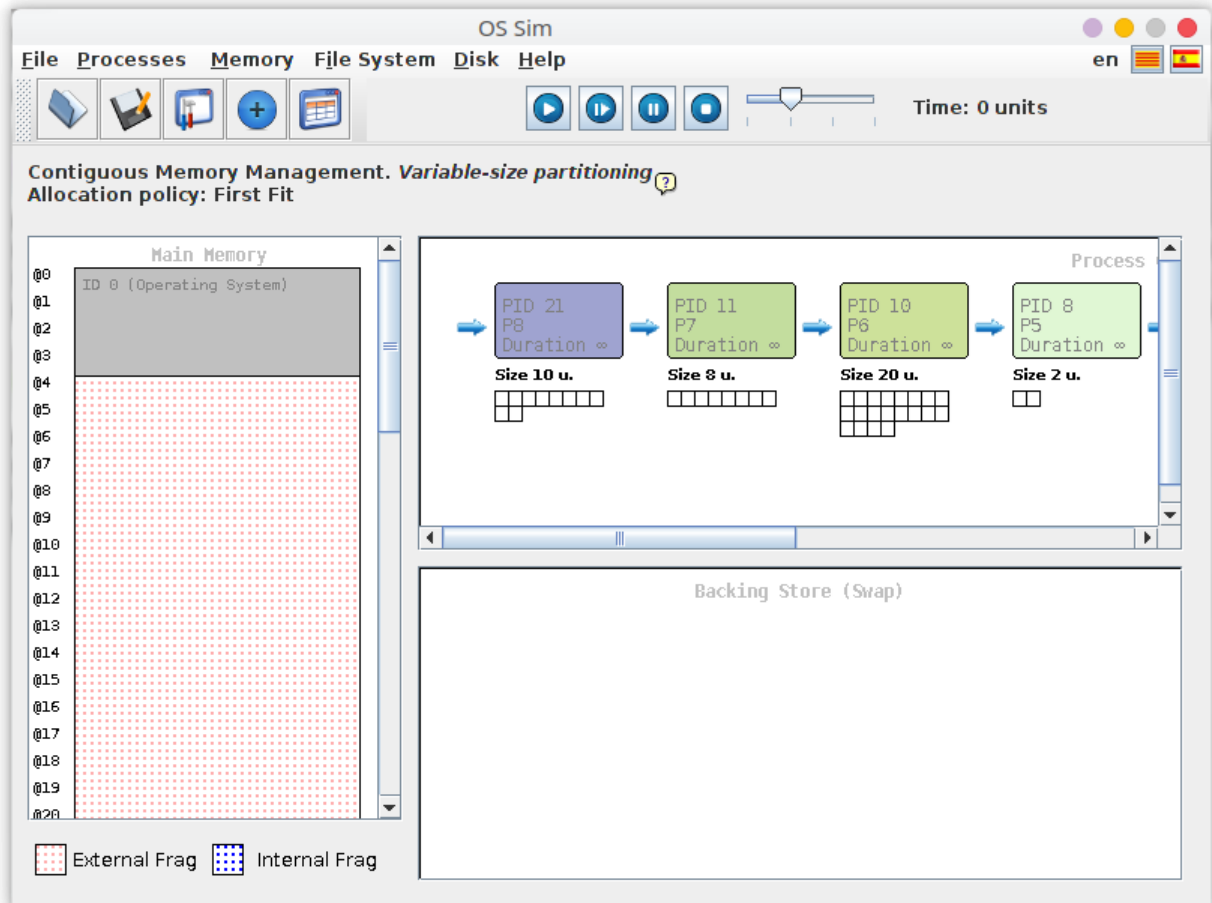
Main Memory
ID 0 (Operating System)
ID 1 - (P1)
ID 3 - (P2)
ID 4 - (P3)

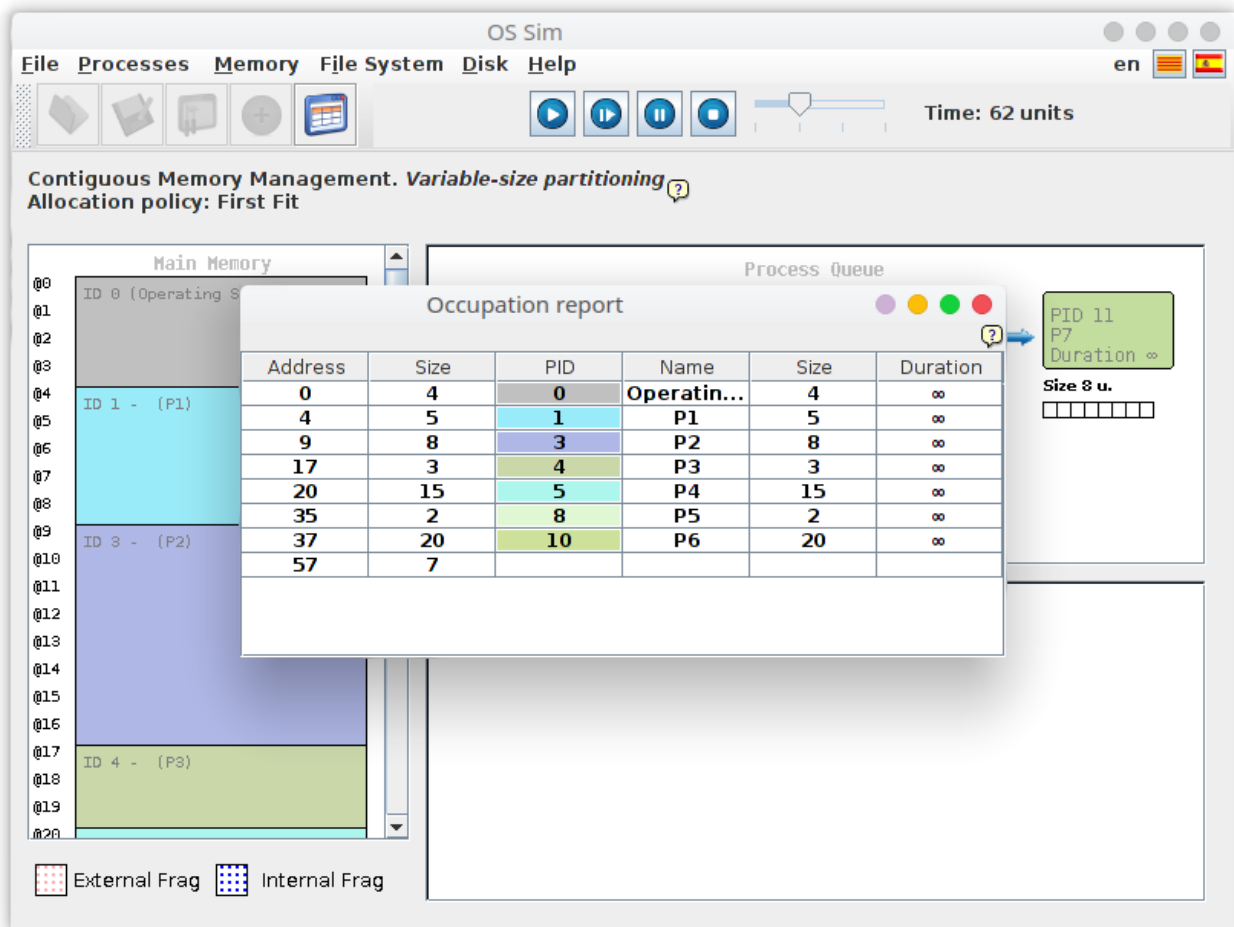
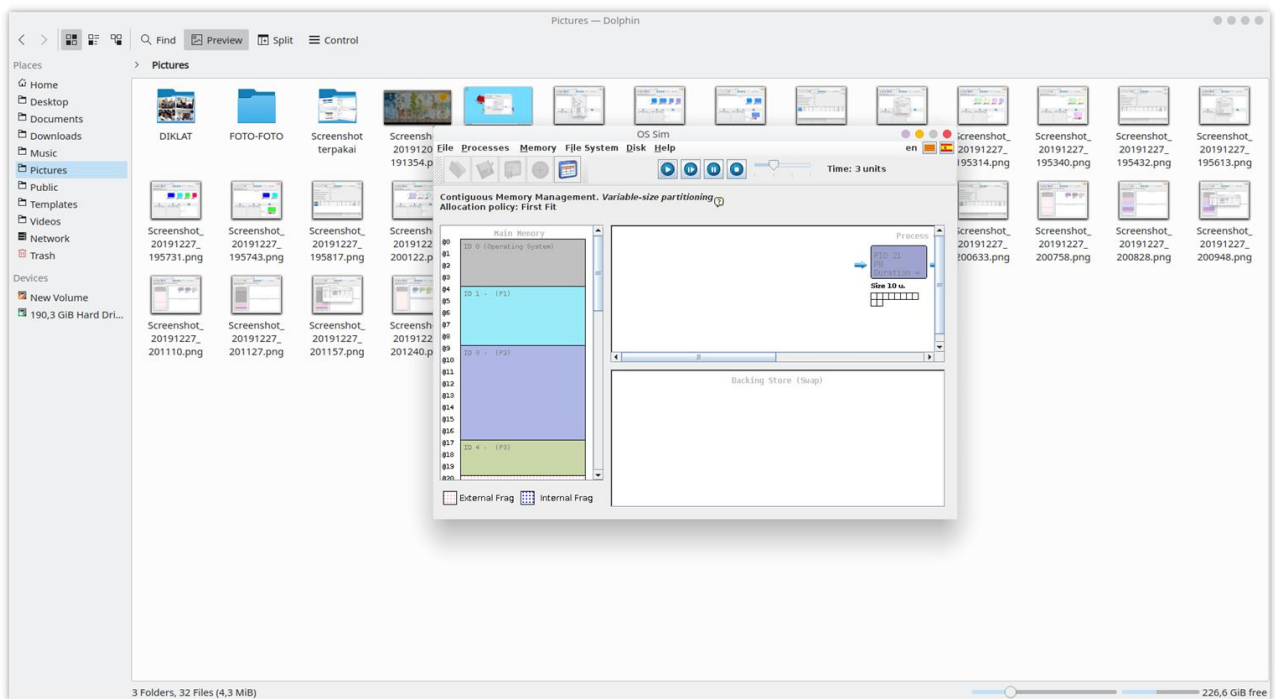
Process
PID 21
P8
Duration ∞
Size 10 u.

Backing Store (Swap)

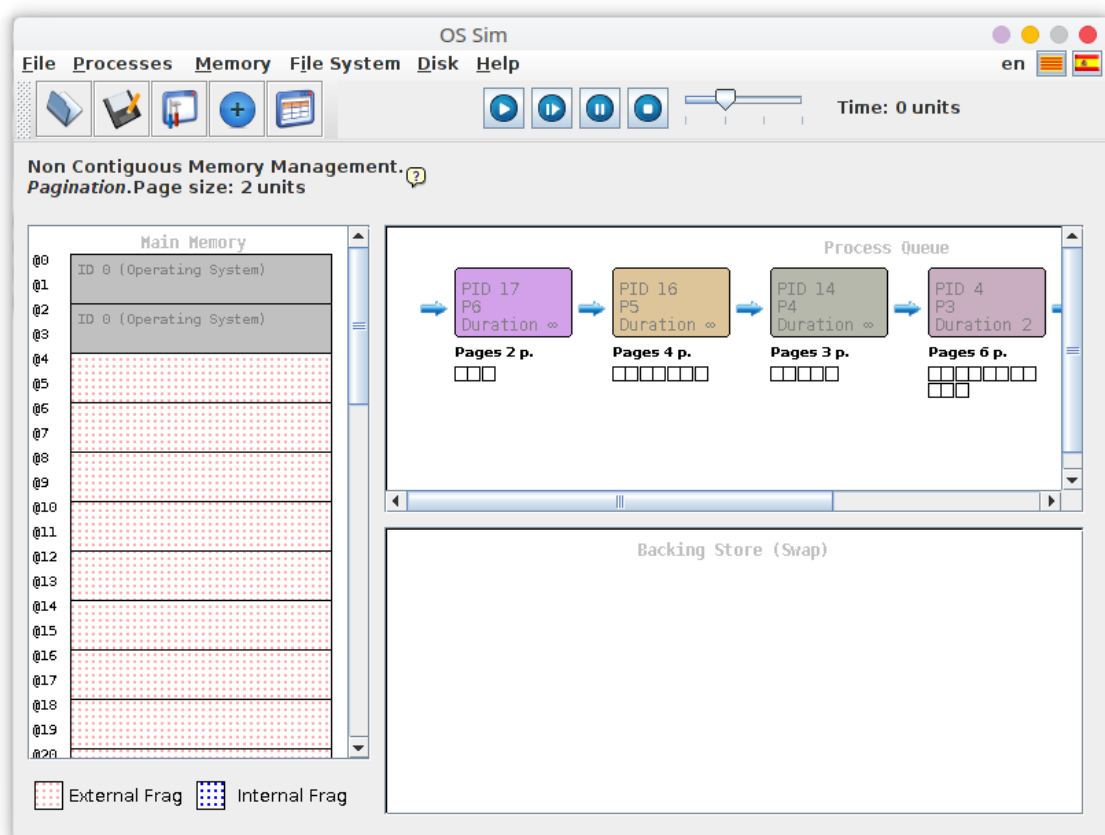
External Frag Internal Frag

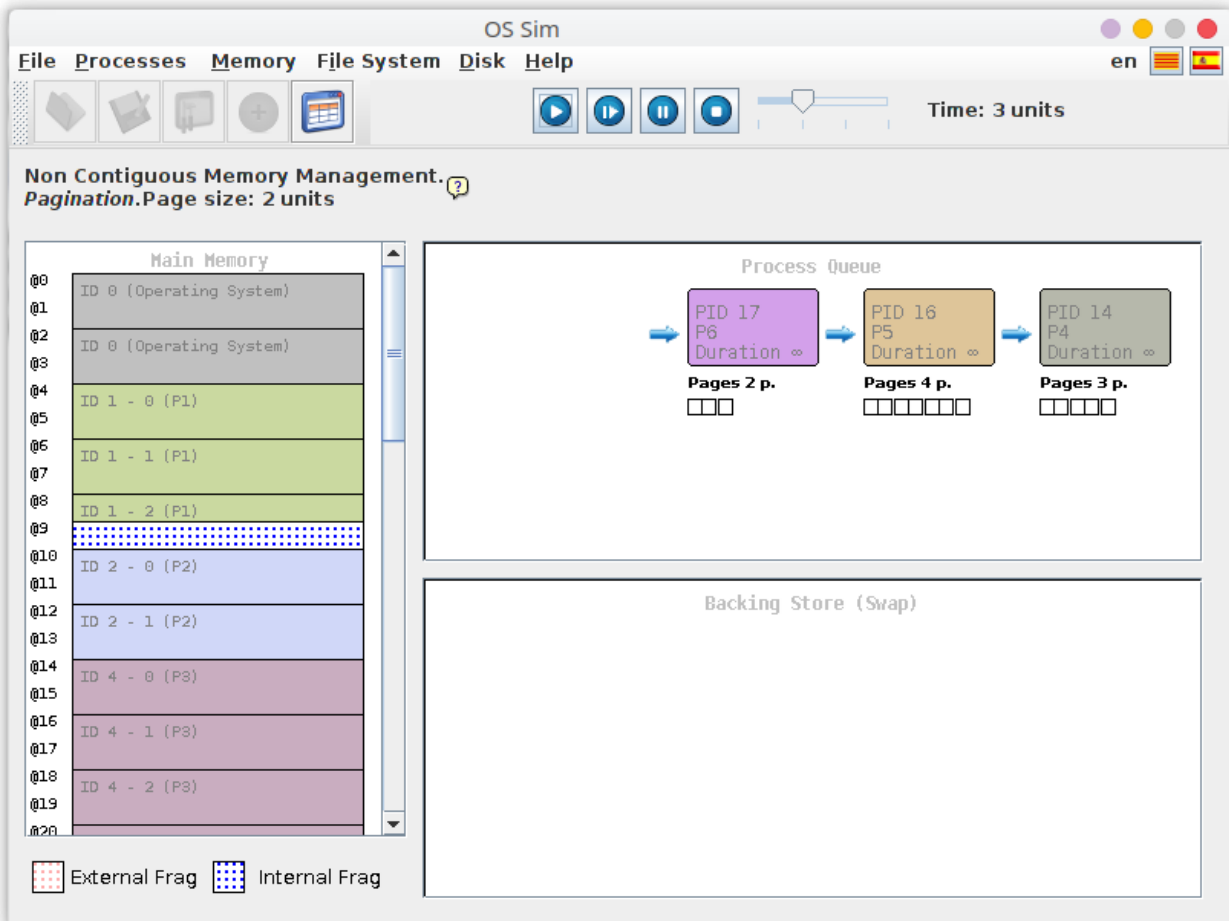
- Contiguous memory management dengan menggunakan partisi berukuran tidak tetap (variable-size partition) >> Swap

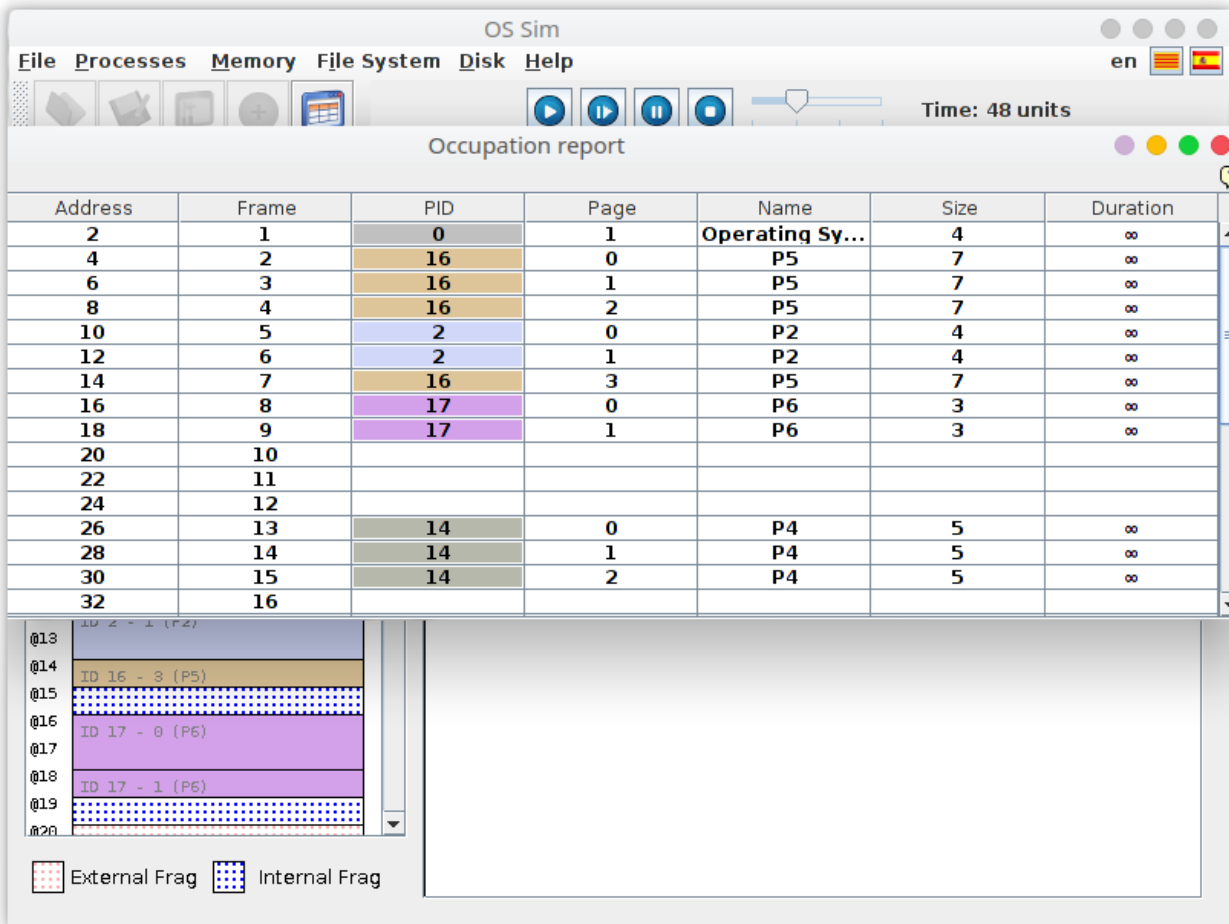




- **Pagination (ukuran page 2 unit)**







- Segmentation (alokasi parsial)

