Tugas Praktikum

Sistem Operasi

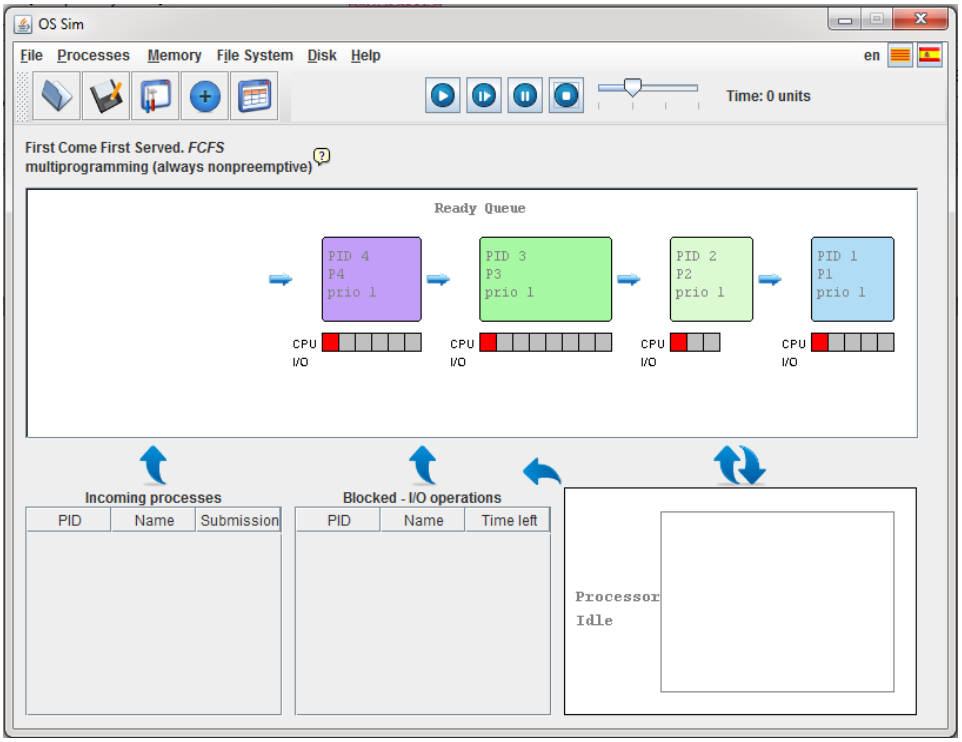
Nama : Muhammad Riza Radyaka Susanto

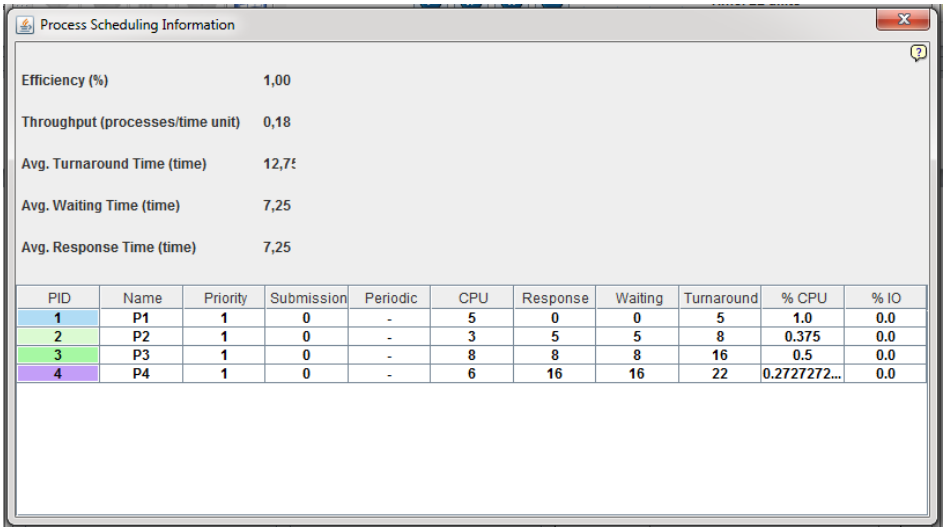
NIM : L200180136

Kelas : C

A. FCFS (First Come First Serve)

Proses	Burst time	Priority
P0	5	1
P1	3	1
P2	8	1
P3	6	1

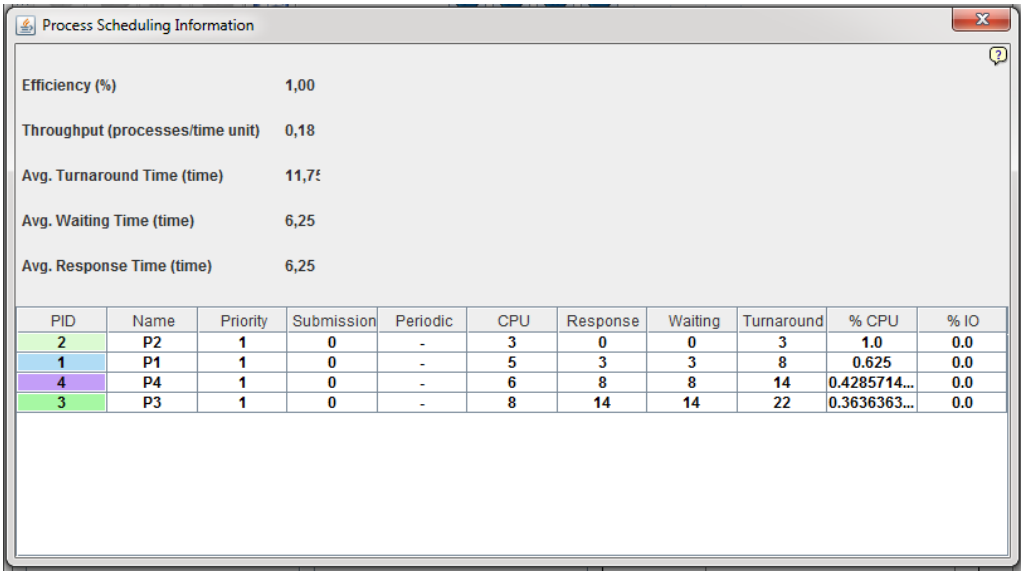




PROSES	WAIT TIME
P0	0
P1	5
P2	8
P3	16
AV. WAITING TIME	7.35
AV. TURNAROUND	12.75
AV. RESPONSE	7.35

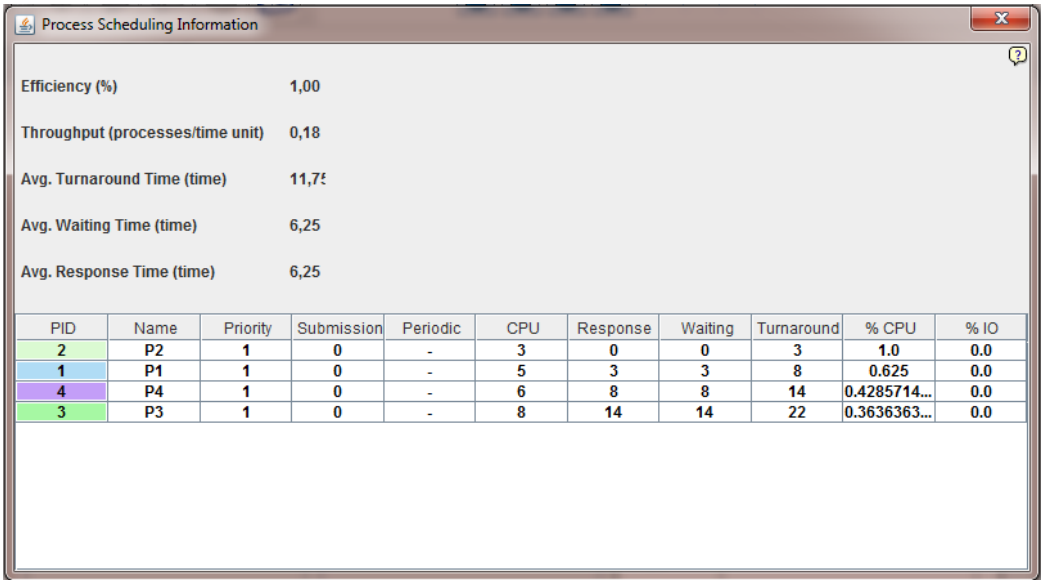
B. SJFS (Shortest Job First Serve)

a. Non-Premptive



PROSES	WAIT TIME
P0	0
P1	3
P2	8
P3	14
AV. WAITING TIME	6.25
AV. TURNAROUND	11.75
AV. RESPONSE	6.25

b. Premptive

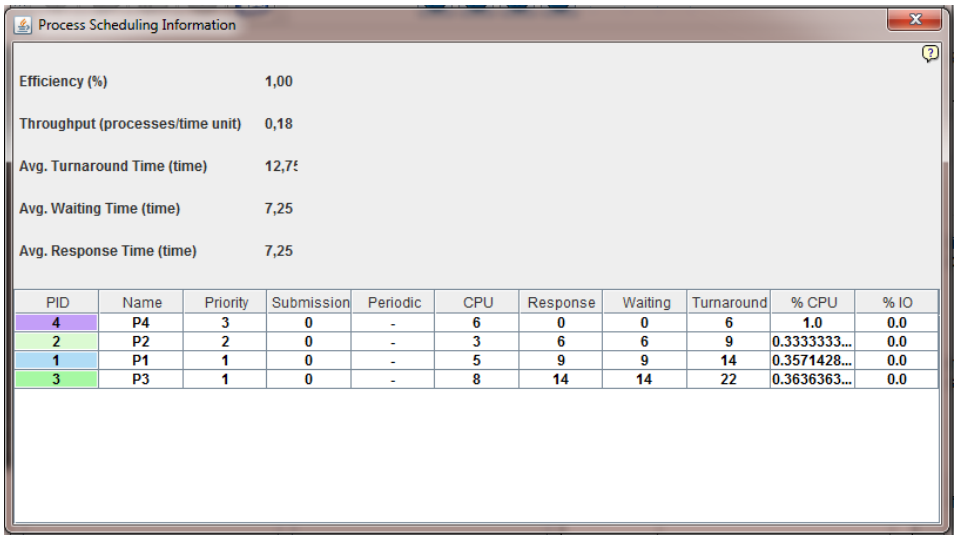


PROSES	WAIT TIME
P0	0
P1	3
P2	8
P3	14
AV. WAITING TIME	6.25
AV. TURNAROUND	11.75
AV. RESPONSE	6.25

C. Priority

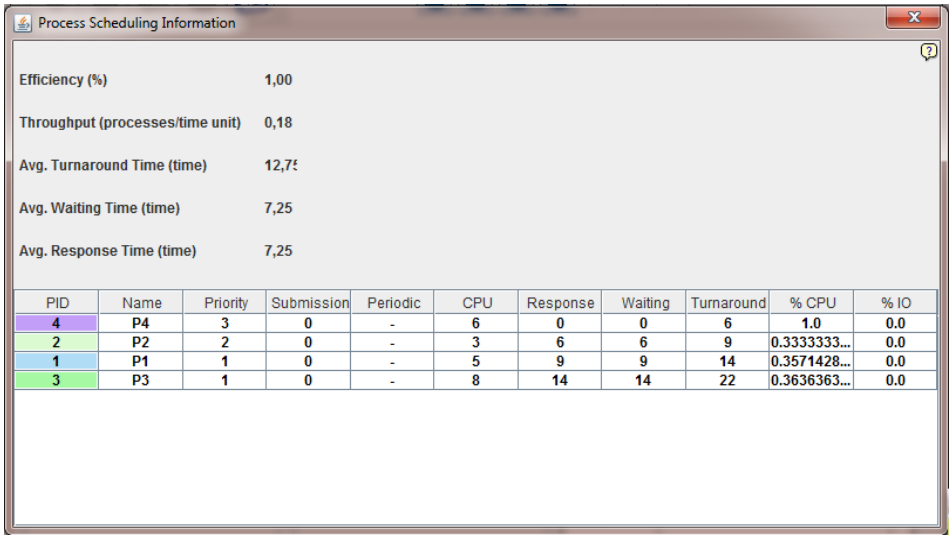
Proses	Burst time	Priority
P0	5	1
P1	3	2
P2	8	1
P3	6	3

a. Non-Premptive



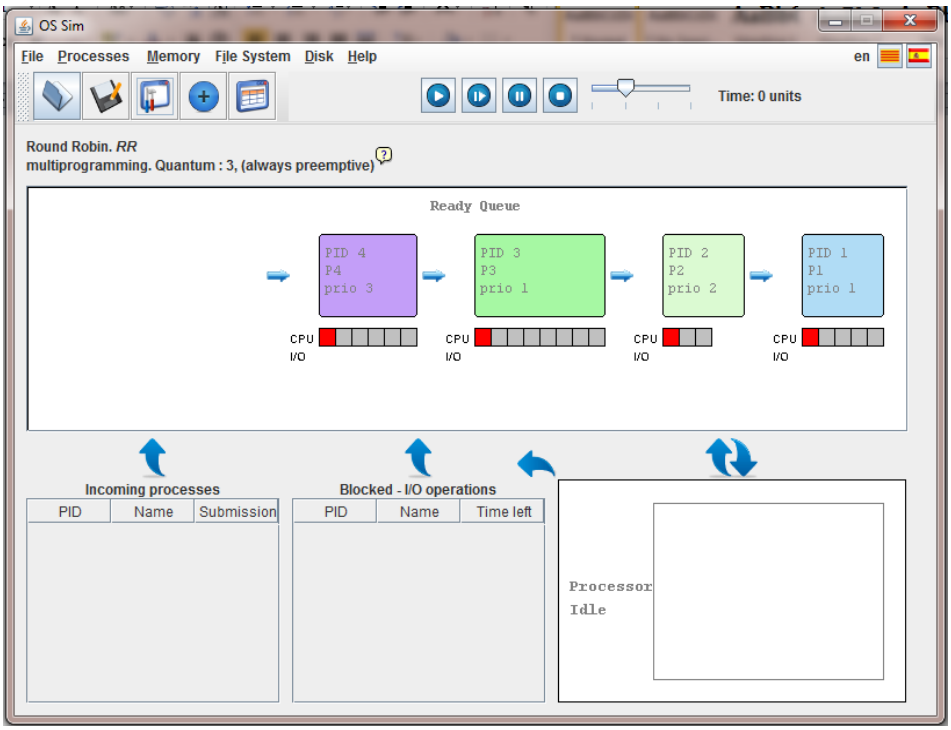
PROSES	**WAIT TIME**
P0	9
P1	6
P2	14
P3	0
AV. WAITING TIME	7.25
AV. TURNAROUND	12.75
AV. RESPONSE	7.25

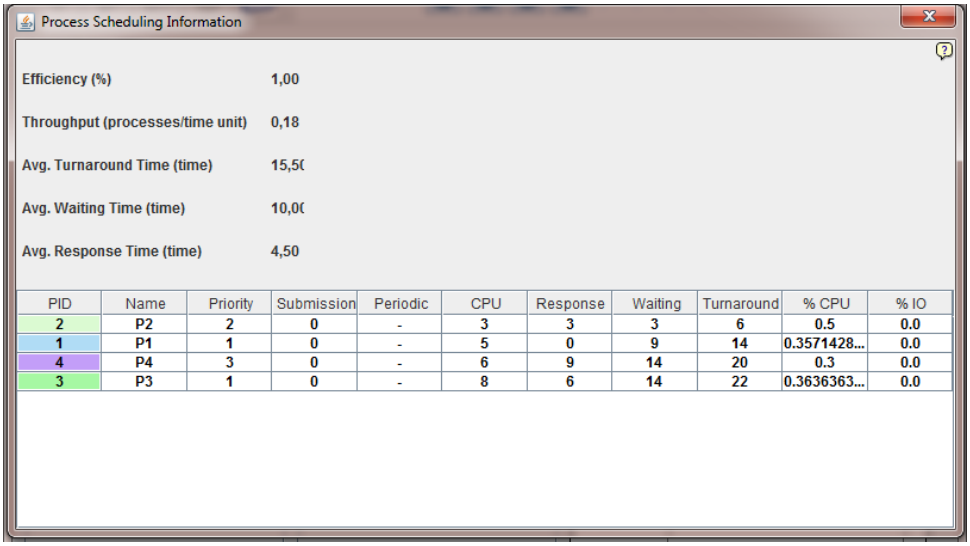
b. Premptive



PROSES	WAIT TIME
P0	9
P1	6
P2	14
P3	0
AV. WAITING TIME	7.25
AV. TURNAROUND	12.75
AV. RESPONSE	7.25

D. Round Robin (Quantum time = 3)

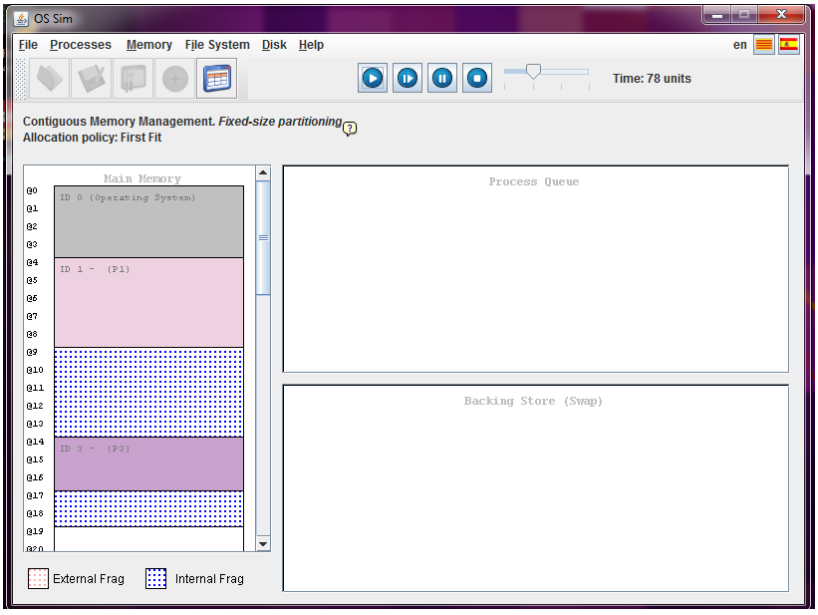


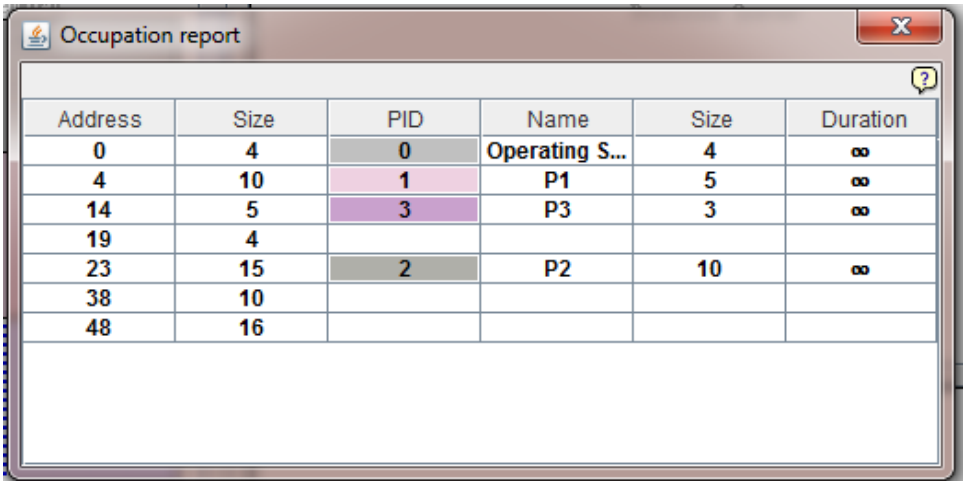


PROSES	WAIT TIME
P0	9
P1	3
P2	14
P3	14
AV. WAITING TIME	10,00
AV. TURNAROUND	15.50
AV. RESPONSE	4.50

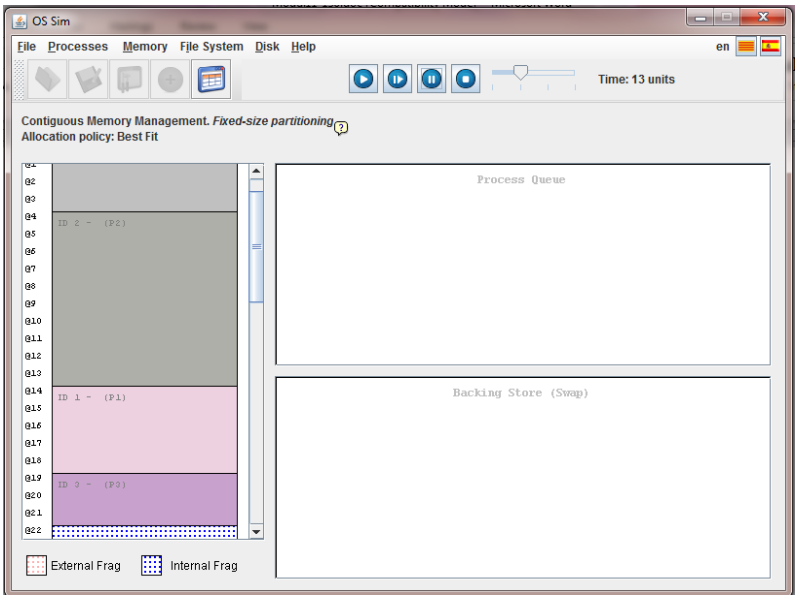
Management Memory

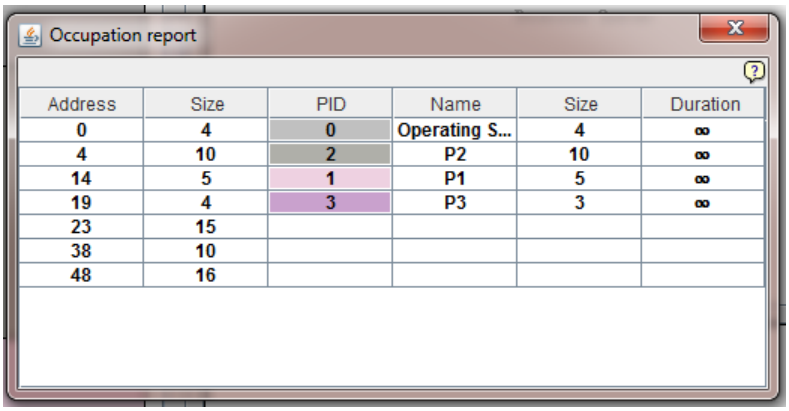
1. *Contiguous memory management dengan menggunakan partisi berukuran tetap (fixed-size* partition) dan aturan first fit



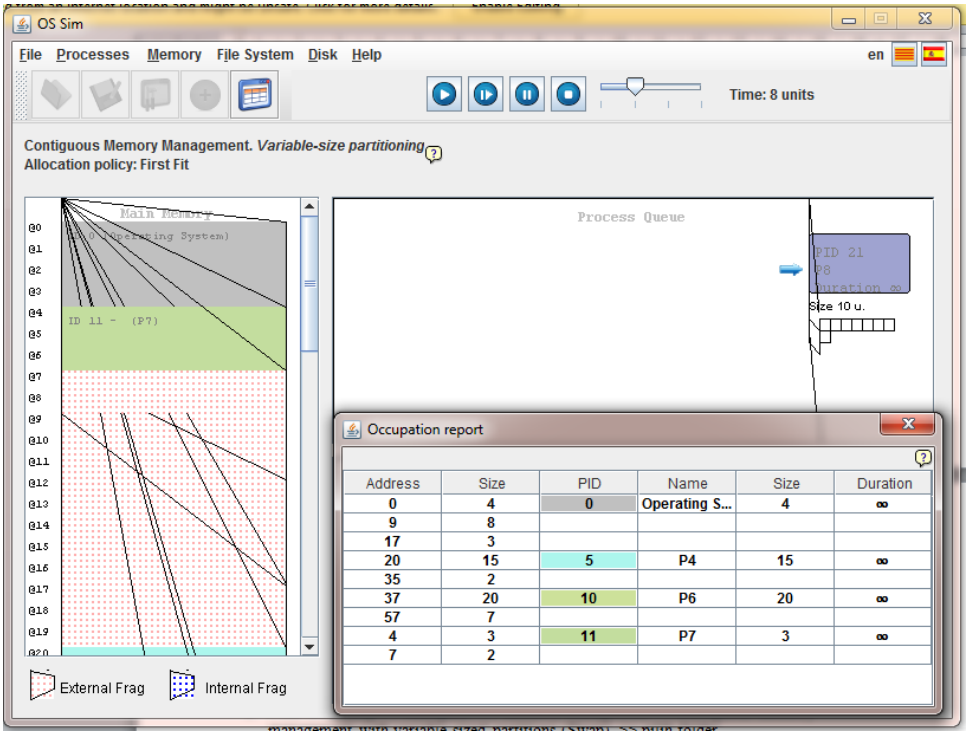


2. *Contiguous memory management dengan menggunakan partisi berukuran tetap (fixed-size* partition) dan aturan best fit

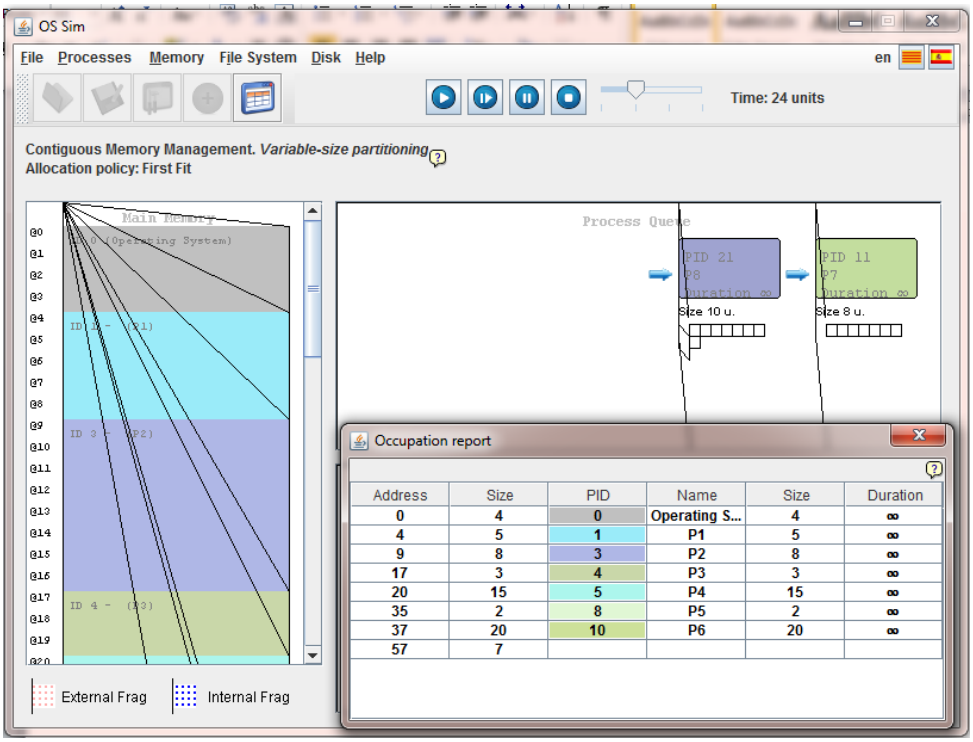




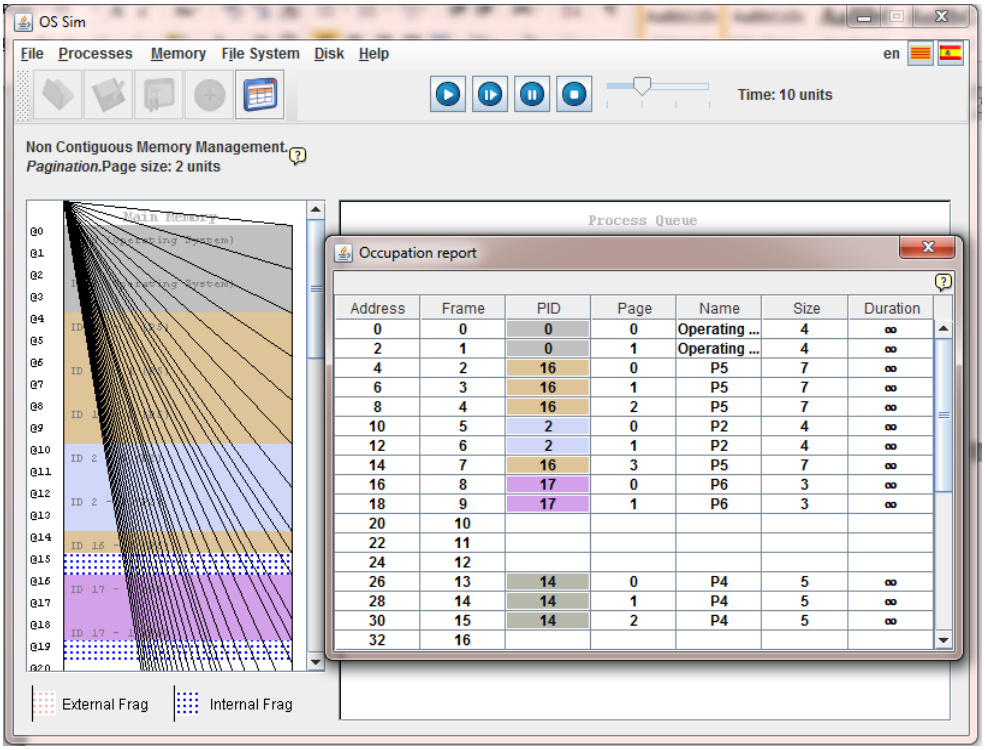
3. Contiguous memory management dengan menggunakan partisi berukuran tidak tetap (variable-size partition) >> defragmentasi (mengalami error)



4. Contiguous memory management dengan menggunakan partisi berukuran tidak tetap (variable-size partition) >> swap (mengalami error)

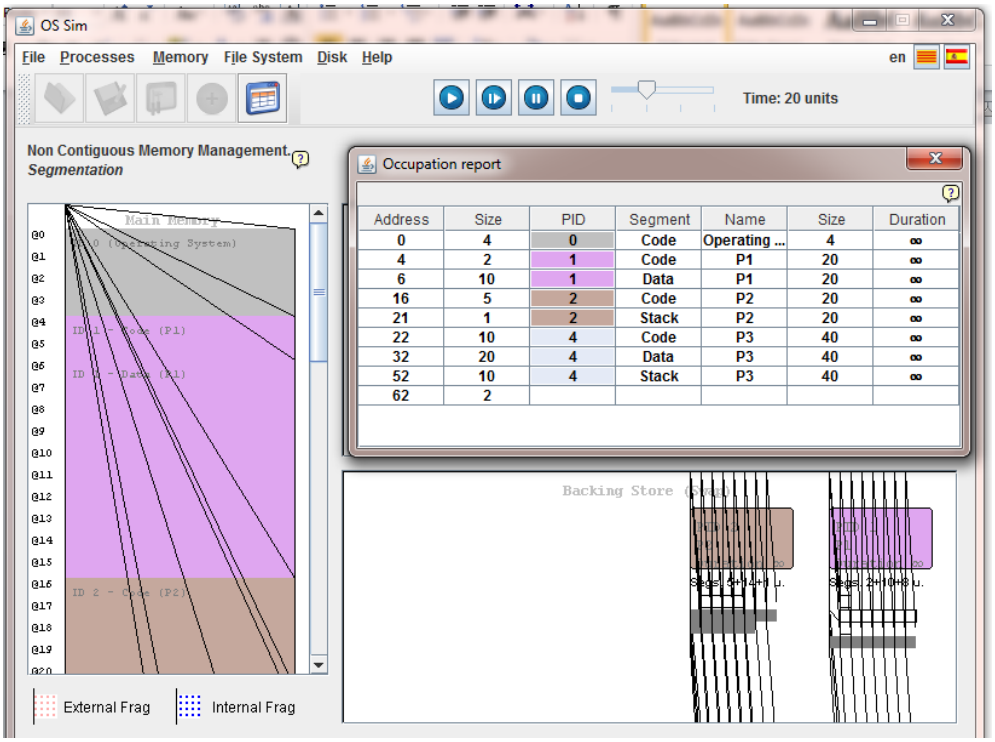


5. Pagination (ukuran page 2 unit)



Address	Frame	PID	Page	Name	Size	Duration
0	0	0	0	Operating ...	4	∞
2	1	0	1	Operating ...	4	∞
4	2	16	0	P5	7	∞
6	3	16	1	P5	7	∞
8	4	16	2	P5	7	∞
10	5	2	0	P2	4	∞
12	6	2	1	P2	4	∞
14	7	16	3	P5	7	∞
16	8	17	0	P6	3	∞
18	9	17	1	P6	3	∞
20	10					
22	11					
24	12					
26	13	14	0	P4	5	∞
28	14	14	1	P4	5	∞
30	15	14	2	P4	5	∞
32	16					

6. Segmentation (alokasi parsial)



Address	Size	PID	Segment	Name	Size	Duration
0	4	0	Code	Operating ...	4	∞
4	2	1	Code	P1	20	∞
6	10	1	Data	P1	20	∞
16	5	2	Code	P2	20	∞
21	1	2	Stack	P2	20	∞
22	10	4	Code	P3	40	∞
32	20	4	Data	P3	40	∞
52	10	4	Stack	P3	40	∞
62	2					