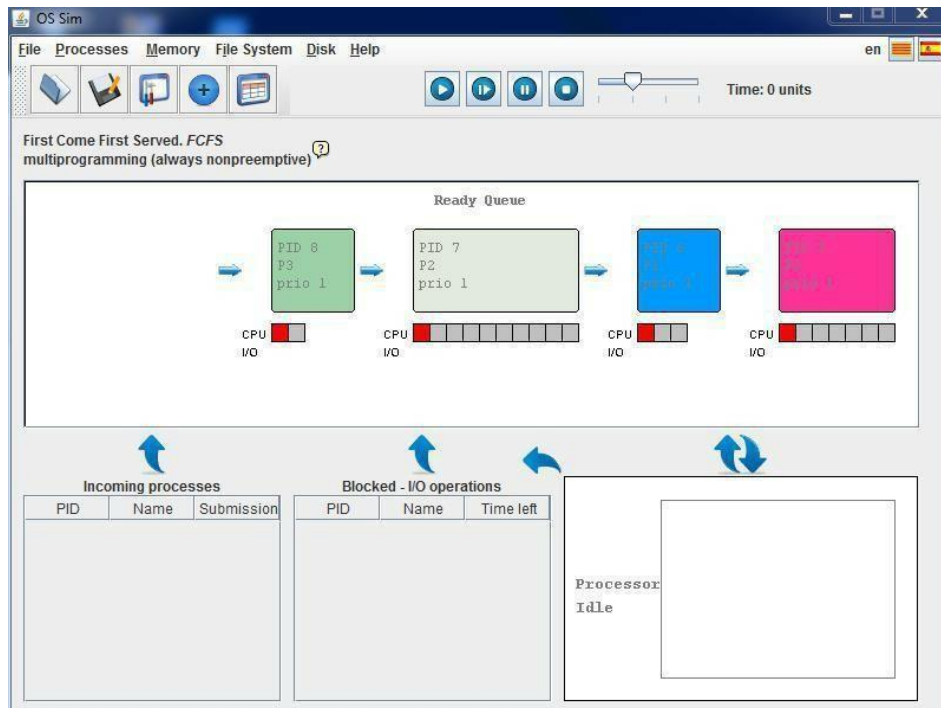


NAMA : Brian Aditya Hermansyah
NIM : L200180116
KELAS : C

MODUL 11

1. FCFS

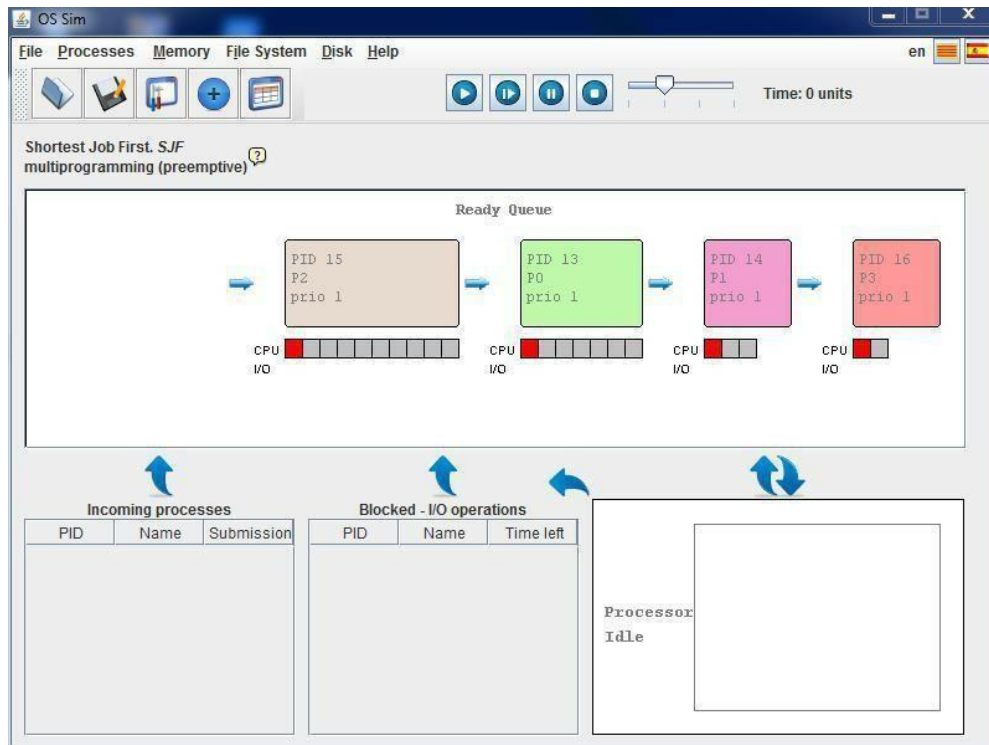


Hasil dari FCFS

| 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 | % 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 |

2 SJFS

a. Preemptive



Hasil dari SJFS

File Processes Memory File System Disk Help

Time: 22 units

Process Scheduling Information

Efficiency (%) 1.00

Throughput (processes/time unit) 0.18

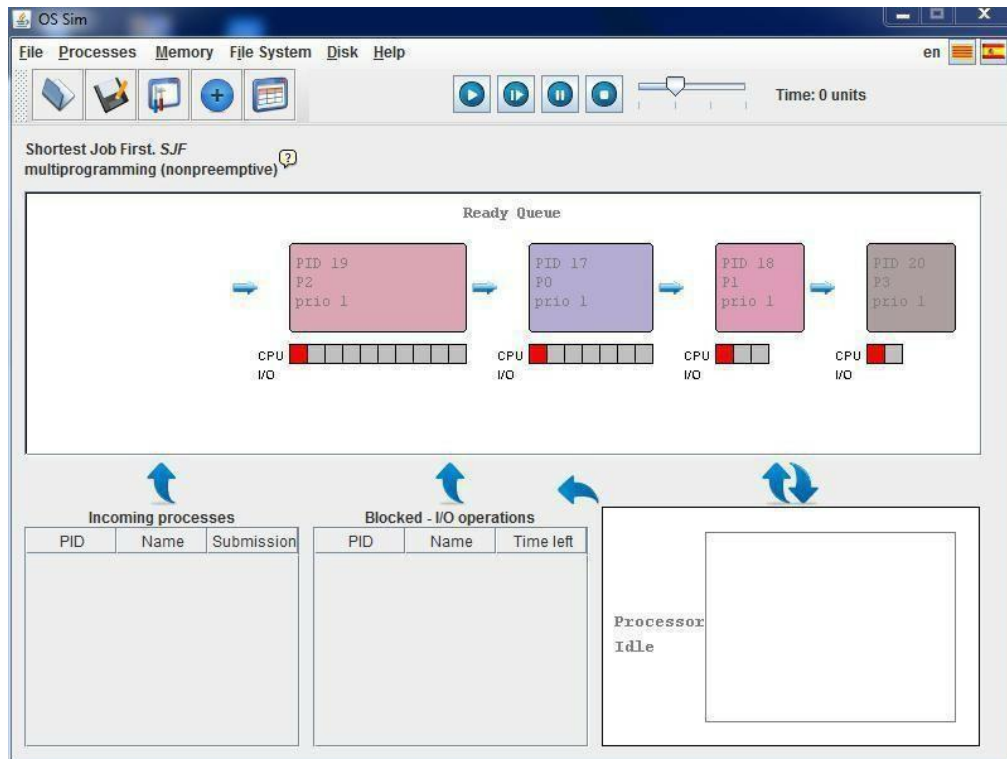
Avg. Turnaround Time (time) 10.25

Avg. Waiting Time (time) 4.75

Avg. Response Time (time) 4.75

| PID | Name | Priority | Submission | Periodic | CPU | Response | Waiting | Turnaround | % CPU | % IO |
|-----|------|----------|------------|----------|-----|----------|---------|------------|-------------|------|
| 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 |

b. Non-Premptive



Hasil dari SJFS Non- Premtive

OS Sim

File Processes Memory File System Disk Help

Time: 22 units

Process Scheduling Information

Efficiency (%) 1.00

Throughput (processes/time unit) 0.18

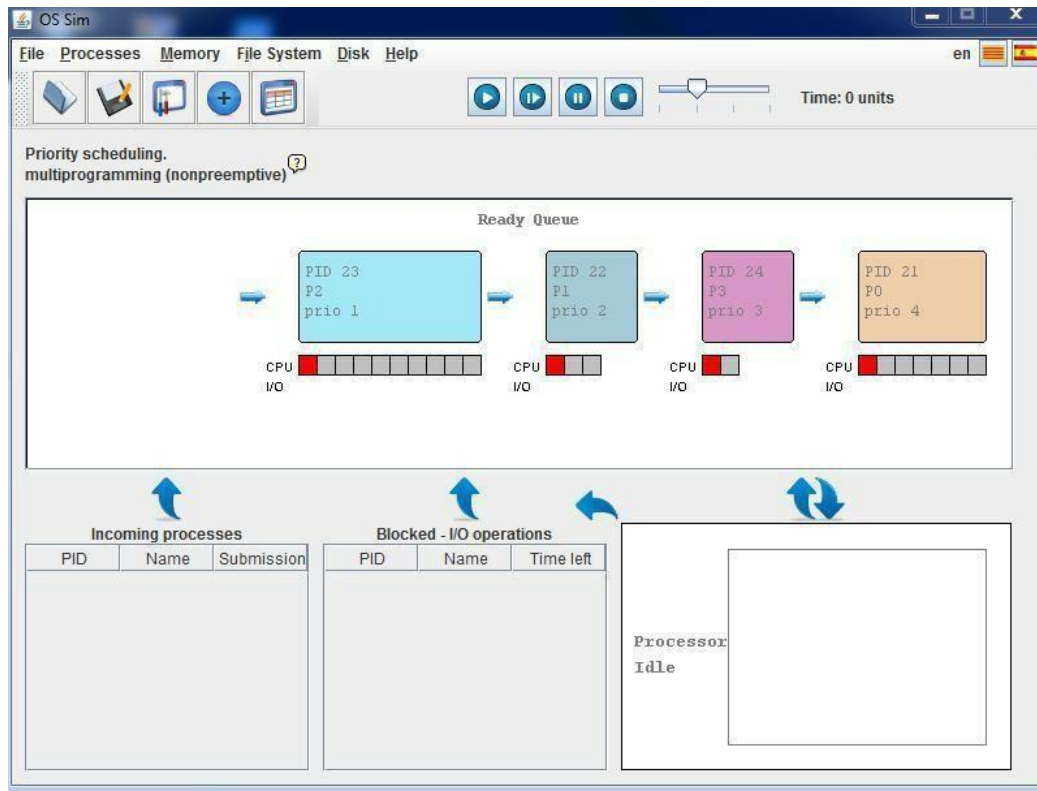
Avg. Turnaround Time (time) 10.25

Avg. Waiting Time (time) 4.75

Avg. Response Time (time) 4.75

| PID | Name | Priority | Submission | Periodic | CPU | Response | Waiting | Turnaround | % CPU | % IO |
|-----|------|----------|------------|----------|-----|----------|---------|------------|--------------|------|
| 20 | P3 | 1 | 0 | - | 2 | 0 | 0 | 2 | 1.0 | 0.0 |
| 18 | P1 | 1 | 0 | - | 3 | 2 | 2 | 5 | 0.6 | 0.0 |
| 17 | P0 | 1 | 0 | - | 7 | 5 | 5 | 12 | 0.5833333... | 0.0 |
| 19 | P2 | 1 | 0 | - | 10 | 12 | 12 | 22 | 0.4545454... | 0.0 |

3 Priority Scheduling



Hasil dari Priority Scheduling

Process Scheduling Information

Efficiency (%) 1.00

Throughput (processes/time unit) 0.18

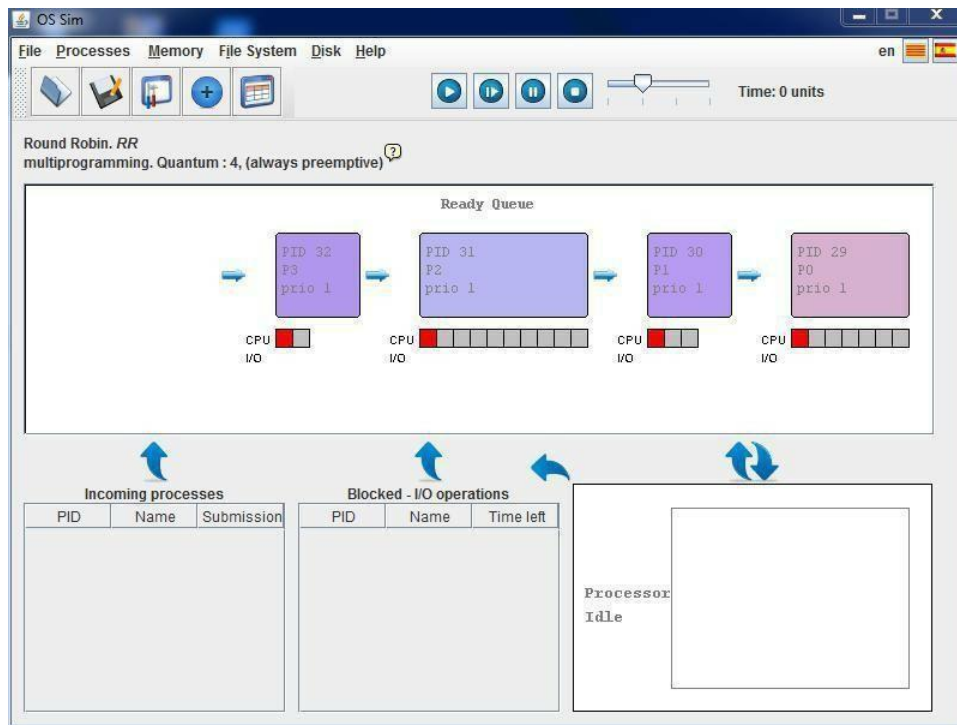
Avg. Turnaround Time (time) 12.50

Avg. Waiting Time (time) 7.00

Avg. Response Time (time) 7.00

| PID | Name | Priority | Submission | Periodic | CPU | Response | Waiting | Turnaround | % CPU | % IO |
|-----|------|----------|------------|----------|-----|----------|---------|------------|-------------|------|
| 21 | P0 | 4 | 0 | - | 7 | 0 | 0 | 7 | 1.0 | 0.0 |
| 24 | P3 | 3 | 0 | - | 2 | 7 | 7 | 9 | 0.222222... | 0.0 |
| 22 | P1 | 2 | 0 | - | 3 | 9 | 9 | 12 | 0.25 | 0.0 |
| 23 | P2 | 1 | 0 | - | 10 | 12 | 12 | 22 | 0.454545... | 0.0 |

4 Round Robin(QuantumTime=4)



Hasil dari 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 |
|-----|------|----------|------------|----------|-----|----------|---------|------------|--------------|------|
| 30 | P1 | 1 | 0 | - | 3 | 4 | 4 | 7 | 0.4285714... | 0.0 |
| 32 | P3 | 1 | 0 | - | 2 | 11 | 11 | 13 | 0.1538461... | 0.0 |
| 29 | P0 | 1 | 0 | - | 7 | 0 | 9 | 16 | 0.4375 | 0.0 |
| 31 | P2 | 1 | 0 | - | 10 | 7 | 12 | 22 | 0.4545454... | 0.0 |