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 Praktikum SO

Proses	Arrival Time	Burst Time	Service Time	Priority
P0	0	7	0	4
P1	1	3	7	2
P2	2	10	10	1
P3	3	2	20	3

FCFS

Proses	WaitTime
P0	0
P1	7
P2	10
P3	20
Average Waiting Time	9.25
Average Turnaround Time	14.75
Average Response Time	9.25

The screenshot shows the 'OS Sim' application window. The 'Process Scheduling Information' dialog box is open, displaying the following statistics:

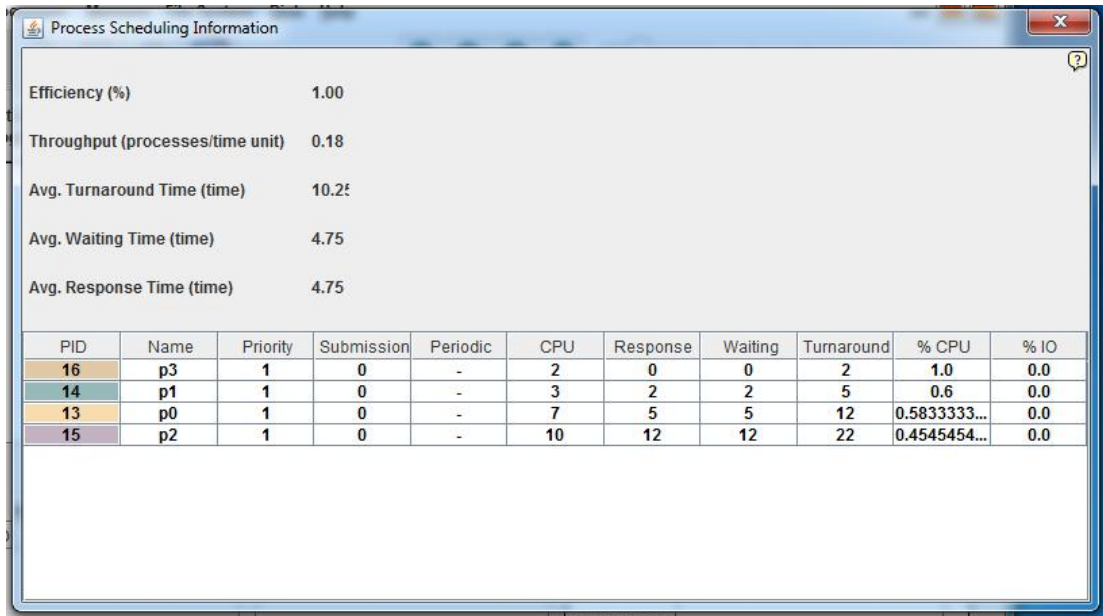
- Efficiency (%): 1.00
- Throughput (processes/time unit): 0.18
- Avg. Turnaround Time (time): 14.75
- Avg. Waiting Time (time): 9.25
- Avg. Response Time (time): 9.25

Below the statistics is a table with the following data:

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

SJFS
Preemptive

Proses	WaitTime
P0	5
P1	2
P2	12
P3	0
Average Waiting Time	4.75
Average Turnaround Time	10.25
Average Response Time	4.75



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

Non Preemptive

Proses	WaitTime
P0	5
P1	2
P2	12
P3	0
Average Waiting Time	4.75
Average Turnaround Time	10.25
Average Response Time	4.75

Process Scheduling Information										
<p>Efficiency (%) 1.00</p> <p>Throughput (processes/time unit) 0.18</p> <p>Avg. Turnaround Time (time) 10.25</p> <p>Avg. Waiting Time (time) 4.75</p> <p>Avg. Response Time (time) 4.75</p>										
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	0.583333...	0.0
19	p2	1	0	-	10	12	12	22	0.454545...	0.0

Priority Time

Proses	WaitTime
P0	0
P1	9
P2	12
P3	7
Average Waiting Time	7
Average Turnaround Time	12.50
Average Response Time	7

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

Round Robin

Proses	WaitTime
P0	9
P1	4
P2	12
P3	11
Average Waiting Time	9
Average Turnaround Time	14.50
Average Response Time	5.50

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
26	p1	1	0	-	3	4	4	7	0.4285714...	0.0
28	p3	1	0	-	2	11	11	13	0.1538461...	0.0
25	p0	1	0	-	7	0	9	16	0.4375	0.0
27	p2	1	0	-	10	7	12	22	0.4545454...	0.0