|  |  |  |
| --- | --- | --- |
| ID. | Arrival time | Burst Time |
| P1 | 0 ms | 10 ms |
| P2 | 2 ms | 5 ms |
| P3 | 4ms | 8 ms |

**FCFS**

Gantt

|  |  |  |
| --- | --- | --- |
| P1 | P2 | P3 |
| 0 10 | 15 | 23 |

Tiempos de espera:

P1 = 10 -10 = 0ms

P2 = 13 - 5 = 8 ms

P3 = 19 – 8 ms = 11 ms

Tiempo de retorno:

P1 = 10 – 0 = 10ms

P2 = 15 - 2 = 13 ms

P3 = 23 – 4 = 19 ms

Promedio Espera: (0 + 8 + 11)/3 = 6.33ms

Promedio retorno: (10 + 13 + 19)/3 = 14 ms

**TurnAround time = Completion – Arrival**

**Waiting Time = TurnAround – Burst Time**

**SJF**

|  |  |  |
| --- | --- | --- |
| P1 | 0 ms | 10 ms |
| P2 | 2 ms | 5 ms |
| P3 | 4 ms | 8 ms |

Gantt

|  |  |  |
| --- | --- | --- |
| P2 | P3 | P1 |
| 0 5 | 13 | 23 |

Tiempos de espera:

P1 = 13 ms

P2 = 0 ms

P3 = 5 ms

Tiempo de retorno:

P1 = 0 + 5 = 5

P2 = 5 + 8 = 13

P3 = 13 + 10 = 23

Promedio Espera: (13 + 0 + 5) / 3 = 6ms

Promedio retorno: (23 + 13 + 5) /41 = 13.6 ms

**TurnAround time = Tiempo de espera + Burst time**

**Waiting Time = TurnAround – Burst Time**

**Round Robin**

|  |  |  |
| --- | --- | --- |
| P1 | 0 ms | 10 ms |
| P2 | 2 ms | 5 ms |
| P3 | 4 ms | 7 ms |

Gantt

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| P1 | P2 | P3 | P1 | P2 | P3 | P1 |
| 0 4(6) | 4 8(1) | 8 12(3) | 12 16(2) | 16 17(0) | 17 20(0) | 20 22(0) |

Total tiempo de espera: 22 ms