# Ejercicio algoritmos de planificación – SOM – Evaluación Ordinaria

Tenemos una máquina con **2 procesadores**. El primer procesador sigue un algoritmo de **FIFO+RR (2 ms)**, y el segundo procesador sigue un algoritmo **SRTF**. Dados los siguientes procesos:

|  |  |  |  |
| --- | --- | --- | --- |
| Proceso | Duración del proceso (ms) | Entra a CPU en el instante (ms) | Otras cosas |
| P1 | 10 | 3 |  |
| P2 | 2 | 0 |  |
| P3 | 3 | 0 |  |
| P4 | 5 | 0 | Bloqueado a los 3ms desde que empieza su ejecución. Se reactiva 10ms después |
| P5 | 12 | 0 |  |
| P6 | 2 | 4 |  |
| P7 | 7 | 4 |  |
| P8 | 8 | 5 | Suspendido al milisegundo de su ejecución |

Completa la siguiente tabla indicando, para cada instante (en ms), dónde está cada proceso (en un procesador [en cuál], en la cola [y orden en el que está en la cola, siendo el de más arriba el que llegó antes a la cola], finalizado, bloqueado o suspendido). Muestra, al lado de cada proceso, el tiempo que le queda para terminar.

## Tabla a rellenar:

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Estado | Instante (ms) | | | | | | | | | | | | | | | | | | | | | | | | |
| 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 |
| Procesador 1 | P3 (3ms) | P3 (2ms) | P3 (1ms) | P5 (12ms) | P5 (11ms) | P5 (10ms) | P1 (10ms) | P1 (9ms) | P1 (8ms) | P7 (7ms) | P7 (6ms) | P7 (5ms) | P8 (8ms) | P8 (7ms) | P5 (10ms) | P5 (9ms) | P5 (8ms) | P7 (5ms) | P7 (4ms) | P7 (3ms) | P7 (2ms) | P7 (1ms) |  |  |  |
| Procesador 2 | P2 (2ms) | P2 (1ms) | P4 (5ms) | P4 (4ms) | P4 (3ms) | P4 (2ms) | P3 (1ms) | P6 (2ms) | P6 (1ms) | P1 (7ms) | P1 (5ms) | P1 (4ms) | P1 (4ms) | P1 (3ms) | P1 (2ms) | P1 (1ms) | P4  (1ms) | P5 (7ms) | P5 (6ms) | P5 (5ms) | P5 (4ms) | P5 (3ms) | P5 (2ms) | P5 (1ms) |  |
| Cola | P4 (5ms) | P4 (5ms) |  | P1 (10ms) | P1 (10ms) | P1 (10ms) | P6 (2ms) | P7 (7ms) | P7 (7ms) | P8 (8ms) | P8 (8ms) | P8 (8ms) | P5 (10ms) | P5 (10ms) | P7 (5ms) | P7 (5ms) | P7 (5ms) |  |  |  |  |  |  |  |  |
| P5 (12ms) | P5 (12ms) |  | P3 (1ms) | P3 (1ms) | P3 (1ms) | P7 (7ms) | P8 (8ms) | P8 (8ms) | P5 (10ms) | P5 (10ms) | P5 (10ms) | P7 (5ms) | P7 (5ms) |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  | P6 (2ms) | P6 (2ms) | P8 (8ms) | P5 (10ms) | P5 (10ms) |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  | P7 (7ms) | P7 (7ms) | P5 (10ms) |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  | P8 (8ms) |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Finalizado(s) |  |  | P2 (0ms) |  |  |  |  | P3 (0ms) |  | P6 (0ms) |  |  |  |  |  |  | P1 (0ms) | P4  (0ms) |  |  |  |  | P7 (0ms) |  | P5 (0ms) |
| Bloqueado(s) |  |  |  |  |  |  | P4  (1ms) |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Suspendido(s) |  |  |  |  |  |  |  |  |  |  |  |  |  |  | P8 (7ms) |  |  |  |  |  |  |  |  |  |  |