

TGR PROCESOS

↓ valor ⇒ ↑ prioridad

candidatos

| | A | B | C | D | | | | | | | | | | | | | | | | | |
|-------------------|---|----|----|----|----|----|----|----|----|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| t → | 0 | 10 | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 | 110 | 120 | 130 | 140 | 150 | 160 | 170 | 180 | 190 | 200 |
| FCFS | A | A | A | A | A* | B | B* | C | C | C | C | C | C | C | C | C | C* | D | D | D | D* |
| SJF | A | A | A | A | A* | B | B* | D | D | D | D* | C | C | C | C | C | C | C | C | C | C* |
| SETF [®] | A | A | B | B* | A | A | A* | D | D | D | D* | C | C | C | C | C | C | C | C | C | C* |
| Pr: n | A | A | A | A | A* | B | B* | D | D | D | D* | C | C | C | C | C | C | C | C | C | C* |
| Pr: a | A | A | B | B* | C | C | D | D | D | D* | C | C | C | C | C | C | C | C | A | A | A* |
| RR (30) | A | A | A | B | B* | A | A* | C | C | C | D | D | D | C | C | C | D* | C | C | C | C |

↳ con CPU libre se coloca el que lleva más tiempo esperando

↑
si no hay más esperando pasa al quantum

* SETF $t_{20} \begin{cases} A = 50 - 20 = 30 \text{ ms} \\ B = 20 \text{ ms} \end{cases}$

$$T_{FCFS} = \frac{0 + 30 + 30 + 110}{4} = 42,5 \text{ ms}$$

$$T_{Pr n} = \frac{0 + 20 + 70 + 10}{4} = 27,5 \text{ ms}$$

$$T_{SJF} = \frac{0 + 20 + 70 + 10}{4} = 27,5 \text{ ms}$$

$$T_{Pr a} = \frac{160 + 0 + 40 + 0}{4} = 50 \text{ ms}$$

$$T_{setf} = \frac{20 + 0 + 70 + 10}{4} = 25 \text{ ms}$$

$$T_{rr(30)} = \frac{20 + 10 + 70 + 70}{4} = 42,5 \text{ ms}$$

EJERCICIO 2

- Se reemplaza el ejewtable, no se crea ningún proceso.
- "i vale 0"

EJERCICIO 3

- Infinutos
- "i vale 1"

EJERCICIO 5

| | A | B | | C | | | | | | | D | | | | | |
|---------|---|---|----|---|----|---|---|----|---|----|----|----|----|----|----|----|
| | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 |
| FCFS | A | A | A | B | B | B | B | C | C | B | D | D | D | D | D | D |
| SJF | A | A | A* | B | B | B | B | B* | C | C* | D | D | D | D | D | D |
| SETF | A | A | A* | C | C* | B | B | B | B | B* | D | D | D | D | D | D |
| RR (10) | A | A | A | B | B | B | B | C | C | B | D | D | D | D | D | D |

↑
deducido a partir del ejemplo

$$T_{\text{recuor}} = \frac{3+9+6+6}{4} = 6 \text{ ud}$$

↑
desde que entra en la
cola hasta que termina

$$b) T_{W_{FCFS}} = \frac{0+2+5+0}{4} = 1,75$$

$$T_{W_{SJF}} = \frac{0+4+0+0}{4} = 1$$

$$T_{W_{SRTF}} = \frac{0+4+0+0}{4} = 1$$

} mejor tiempo de espera
promedio

$$T_{W_{RR}} = \frac{0+(2+2)+4+0}{4} = 2$$

Ejercicio 6

$$C = 10(30) 10(30)$$

| | | | | | | | | | | | | | | | | | | | | | |
|-----|---|----|----|----|----|----|----|----|----|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| t → | 0 | 10 | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 | 110 | 120 | 130 | 140 | 150 | 160 | 170 | 180 | 190 | 200 |
| Req | | | | | | | | | | | | | | | | | | | | | |
| CPU | C | A | A | A | A | A* | B | B | B | B | B* | C | - | - | - | C | - | - | - | C* | - |
| E/S | - | C | C | C | - | - | - | - | - | - | - | - | C | C | C | - | C | C | C | - | - |

| | | | | | | | | | | | | | | | | | | | | | |
|------|---|---|---|---|---|---|----|---|---|---|---|---|----|----|--|--|--|--|--|--|--|
| SRTF | | | | | | | | | | | | | | | | | | | | | |
| CPU | C | A | A | A | C | A | A* | B | C | B | B | B | B* | C* | | | | | | | |
| E/S | - | C | C | C | - | C | C | C | - | C | C | C | - | | | | | | | | |

$$T_{\text{recuor}} = \frac{6+11+20}{3} = 12,33$$

·/· CPU = 6 free = 70%
·/· E/S

$$T_{\text{SRTF}} = \frac{7+13+14}{3} = 11,33$$

·/· CPU = 100%
·/· E/S =