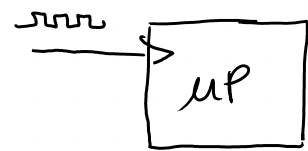
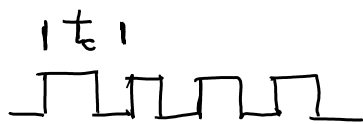


RISC



$$t_{\text{cycle}} = \frac{1}{f}$$

$$P_j: f = 1\text{GHz}$$

$$t_{\text{cycle}} = 1\text{ns}$$

→ 1ns ←



1 instruction ~ 4ns / instruction

CISC

tipo Instrucción

CPI

P

mover-cargar

2.5

18%

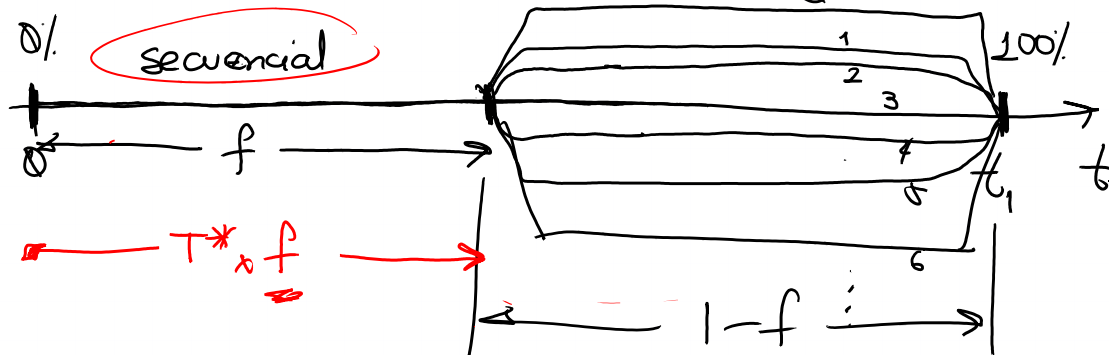
Add-sub

2

15%

...

hilo ①



sol.

$$f = 0.9$$

$$\text{paralelo} = 0.1$$

T^* = ejecución del programa secuencial full

T_p = ejecutar el programa paralelo

$$S = \frac{1}{f} = \frac{1}{0.9} = 1.11$$

$$S = \frac{1}{0.9} \approx 1$$