200 MIPS 200.106 inst./seg 5.10^3 5 = 106 instrucciones Tespera = 5ms

No cicles paner la lectura = 30 veces/s \times 2.000 cicles = 60.000 cicles/s 9% cicles del procesador consumidos en la lectura = $\frac{60.000 \text{ cicles}/\text{s}}{2^{1}7.10^{9} \text{ Hz}} = 0^{1}002\%$

3

16Hz

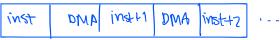
Nafaga - transferencia de tedo un blaque

CPI = 8

(nst i DMA DMA DMA ... DNA DMA (nst+1)

velacidad = 107 codas/seg = 109 pal/seg

b) Rabo de ado - en ada cido, se transfiere una línea



velocadad = 109 adas/reg = 114 108 pal/seg 8+1 = 9 udas/pal



Periférico

4

vel hans = 2.106 bytes/5

4 mst = 100ms

Microcización DMA=10inst

triansf-palabra = 500s

transpairmos = S12bytes

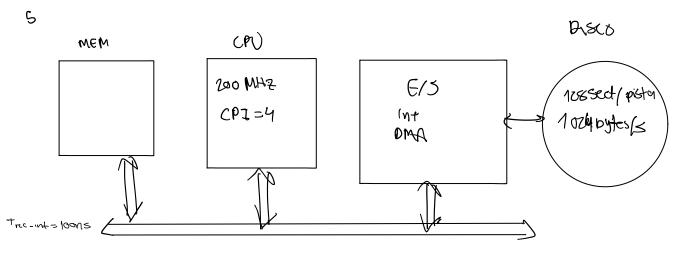
Thus = Striptes sons/pan = 6.400 ns

+ trans-byte = = = ds.10=5

Thans-part = 4.015.10-6= 2.10-85

a) tporterico = 512 bytes, 015.10-5 = 256.10-6 + empora hacer avas casas = 256.10-6 - 6'4.10-6 = 249'6.10-6'5

b) No instruction new = 24916 100 = 2496 instructions



8 bytes (m)
Rut-int = 20 inst

b)

ABSISTANCE >= AB disco

AB disco =
$$\frac{N! \text{ bybs}}{\text{Pista}} * \frac{N! \text{ piston}}{\text{stg}} = 2^{7} \cdot 2^{10} \cdot \text{W}$$

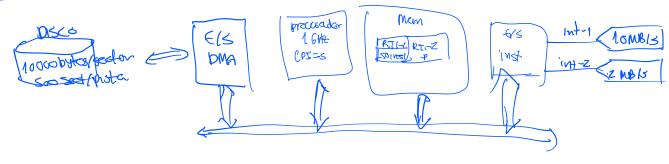
16:106 bytes/s = $2^{17} \text{ W} \Rightarrow \text{W} \leq 16 \cdot 106_{214} = 123 \cdot 03 \text{ prosential pieces}$

No. 100 bytes/s = $2^{17} \text{ W} \Rightarrow \text{W} \leq 16 \cdot 106_{214} = 123 \cdot 03 \text{ prosential pieces}$

+ robado = vi transf. + transf = 1024 byter/sector - 5ns 2640ns

total

int = interrupcions 8C = Sector



Nátage

= 46 40/46/260

ABONA = 4 bytes 4 ciclo *10 5/cic



C) Ropo ge algo