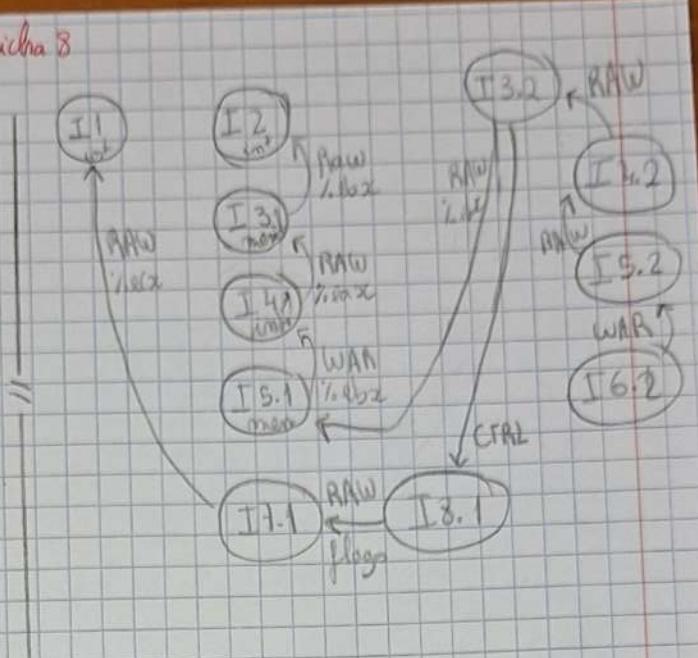


→ Arquitectura de Computadores - Ficha 8

1-

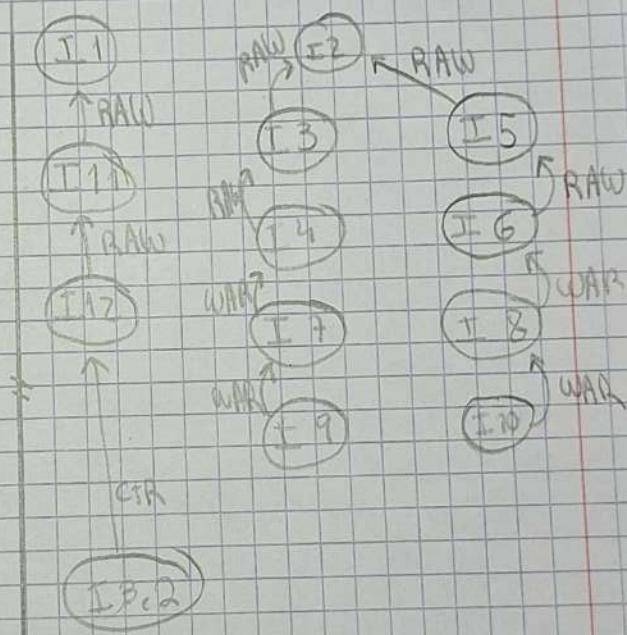
int I1: mov \$10, %eax
 int I2: mov \$20, %ebx
 int I3: mov 0(%ebx), %eax
 I4: add \$100, %eax
 I5: mov %eax, 0(%ebx)
 I6: add \$4, %ebx
 I7: dec %ecx
 I8: jmg I3



a)

b)

I1: mov \$10, %eax
 I2: mov \$20, %ebx
 I3: mov 0(%ebx), %eax
 I4: add \$100, %eax
 I5: mov 4(%eax), %esi
 I6: add \$100, %esi
 I7: mov %eax, 0(%eax)
 I8: mov %esi, 2(%eax)
 I9: add \$4, %ebx
 I10: add \$8, %esi
 I11: dec \$2, %ecx
 I12: jmg I3



c)

	Sommlängd/mm			Umnollung = 2		
	UF0 (int+B)	UF1 (int+B)	UF2 (mm)	UF0 (int)	UF1 (int)	UF2 (mm)
1	I1	I2		I1	I2	
2			I3			I3
3	I4			I4		I5
4	I6	I7	I6	I6		I7
5	I8			I9	I10	I8
6			I3.2	I11	I12	
7	I4.2					I3.2
8	I6.2	I7.2	I5.2	I4.2		I5.2
9	I8.2			I6.2		I7.2
10				I9.2	I10.2	I8.2
11				I11	I12	
12						
13						
14						
CPI	$\frac{9}{14} = 0.64$			11/14 = 0.79		

d) Sennungslangs

	UF0/Int	UF1/Int	UF2/mm	UF0	UF1	UF2
1	I1	I2		I1	I2	
2			I3			I3
3	I4			I4		
4	I6	I7	I5	I6		ES
5	I8		I3,2			I7
6	I4,2			I9	I10	I8
7	I6,2	I7,2	I5,2	I11	I12	I3,2
8	I8,2					
9						
10						
11						
12						
13						
14						
CPI			8/14 = 0,57			

2)

	UFO	UF1	UF2		
1	I8	I2			
2			I3		
3	I4	I7			
4	I6	I8	I6		
5			I3.2		
6	I4.2	I7.2			
7	I6.2	I8.2			
8					
9					
10					
11					
12					
13					
14					
			I12=81		

2-

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

16

a)

I1: pop %eax

I2: cmp \$0 %eax

I3: je I9

I4: mov \$0(%ebx), %ecx

I5: add %eax, %ecx

I6: mov %ecx, 0(%ebx)

I7: add \$4, %ebx

I8: jmp I1

I1

RAW

I2

CRL

I3

I4

RAW

I5

RAW

I6

I7