

OUT-OF-ORDER

XXX ESECUZIONE  
DECODIFICA

(EXEC)  
(ISSUE)

mercoledì 7 dicembre 2016 12:10

INC  $R_i$   
LOAD  $R_b, R_i, R_1$   
SUB  $R_i, R_2, R_i$   
...

	0	1	2	3	4	5	6
IM	I	L	S				
IU		I	L	L	S		
DM				↑	L	↓	
EU			I		L	S	

IU "OUT-OF-ORDER"

$R(\text{LOAD}) = \{R_b, R_i\}$   
 $W(\text{LOAD}) = \{R_1\}$   
 $R(\text{SUB}) = \{R_i, R_2\}$   
 $W(\text{SUB}) = \{R_i\}$

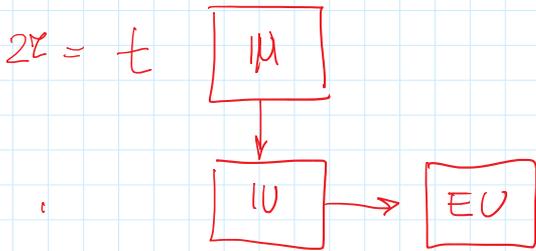
	0	1	2	3	4	5	6
I		L	S				
I		I	L	S			
I			I		S		

$x[i] \neq (a-b)$

INC  $R_i$   
 $\rightarrow$  LOAD  $R_b, R_i, R_1$  }  $x[i]$   
 $\rightarrow$  SUB  $R_i, R_2, R_i$  }  $a-b$   
 MWL

$R(\text{LOAD}) = \{R_b, R_i\}$   
 $W(\text{LOAD}) = \{R_1\}$

$R(\text{SUB}) = \{R_i, R_2\}$   
 $W(\text{SUB}) = \{R_i\}$



$2C = t$        $t = 2C$

$123.45 \times 67.89$