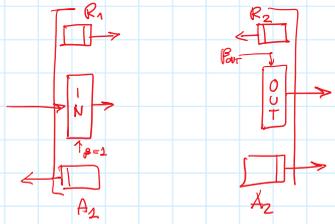
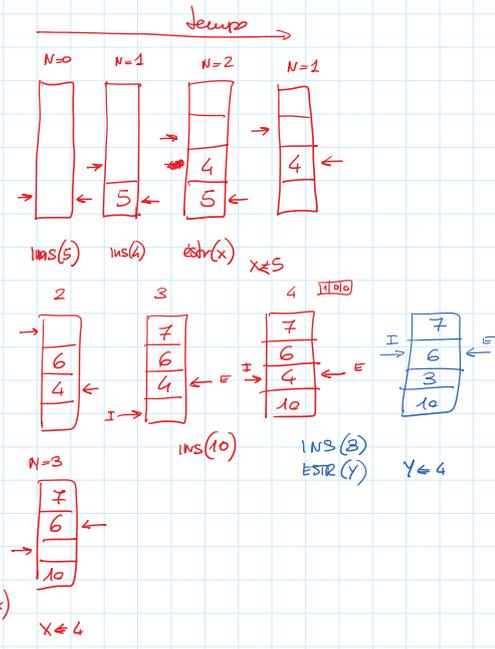
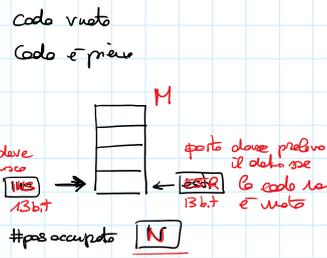
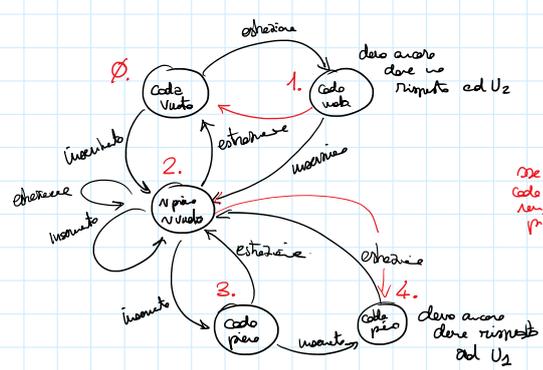


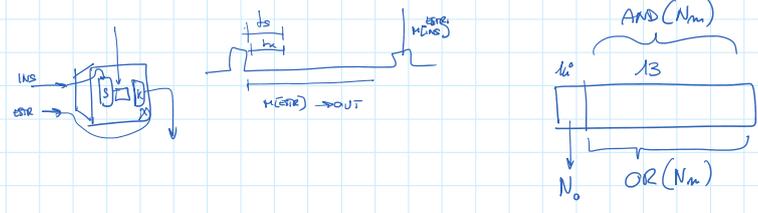
$\emptyset. (R_1 R_2 = 00) \text{ map } \emptyset$   
 $(= 10)$   
 $(= 01)$   
 $(= 11)$

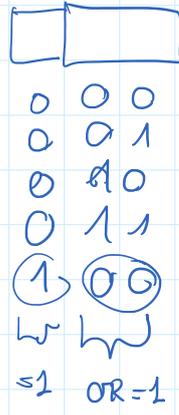
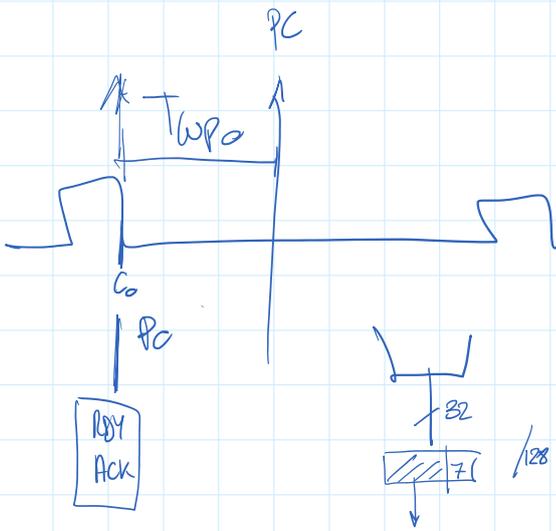


$U_1$  &  $U_2$  interagiscono con  $U$  a domanda / risposta



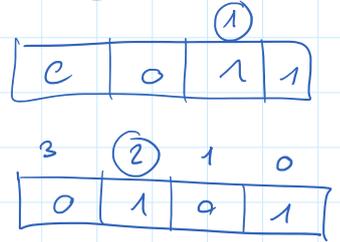
- $\emptyset. (R_1 R_2 = 00) \text{ map } \emptyset (= 10) \text{ IN} \rightarrow \text{H[INS]}, \text{INS}++, \text{N}++, \text{set } A_1, \text{reset } R_1, 2$   
 $(= 01) \text{ map } 1, (= 11) \text{ IN} \rightarrow \text{OUT}, \text{set } A_2, \text{reset } R_1, \text{set } A_2, \text{reset } R_2, \emptyset$
1.  $(R_1 = 0) \text{ map } 1 (= 1) \text{ IN} \rightarrow \text{OUT}, \text{set } A_1, \text{reset } R_1, \text{set } A_2, \text{reset } R_2, \emptyset$   
 2.  $(R_1 R_2, \text{or } (N), N_0 = 00 \text{ --}) \text{ map } 2, (= 10 - 0) \text{ IN} \rightarrow \text{H[INS]}, \text{INS}++, \text{N}++, \text{set } A_1, \text{reset } R_1, 2$   
 $(= 10 - 1) \text{ map } 4 (= 011 -) \text{ H[ESTR]} \rightarrow \text{OUT}, \text{N}--, \text{ESTR}++, \text{set } A_2, \text{reset } R_2, 2$   
 3.  $(= 010 -) \text{ map } 1 (= 1110) \text{ H[ESTR]} \rightarrow \text{OUT}, \text{IN} \rightarrow \text{H[INS]}, \text{INS}++, \text{ESTR}++, \text{set } A_1, \text{reset } R_1, \text{set } A_2, \text{reset } R_2, 2$   
 4.  $(R_2 = 0) \text{ map } 4 (= 1) \text{ H[ESTR]} \rightarrow \text{OUT}, \text{N}--, \text{ESTR}++, \text{set } A_2, \text{reset } R_1, 2$



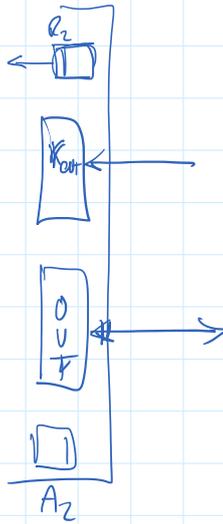
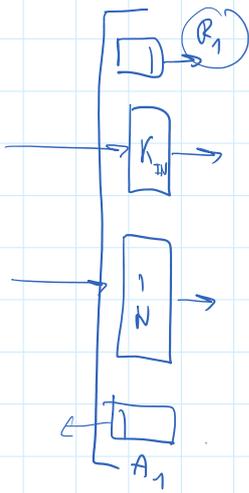


0	1	1	0	1
0	1	0	1	0
0	0	1	1	0
0	0	0	1	0

zfp



Indice del 1° bit e 1



$K_{OUT} \neq \#$

$R_2 = 1$

$K_{OUT} \rightarrow K$

$k-- \quad OR(k) = 0$



$\emptyset = (R_1 = 0) \text{ rep. } \emptyset$   
 $(= 1) \text{ IN} \rightarrow H[INS], U++, INS++, K_{IN} \neq K, \#$   
 set  $A_1$  reset  $R_1$

1.  $(R_1 \text{ OR}(K_{IN}) = 0 -) \text{ rep. } 1$   
 $(= 11) \text{ IN} \rightarrow H[INS], N++, INS++, K-1 \rightarrow K,$   
 set  $A_1$ , reset  $R_1$

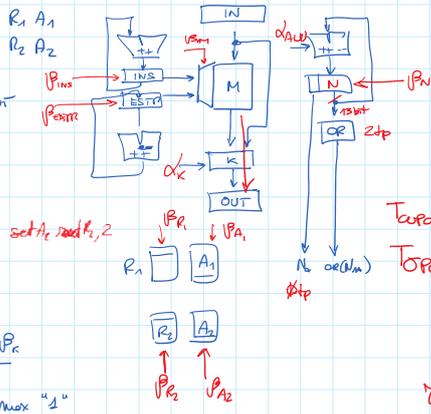


$\emptyset = (R_1 = 0) \text{ rep. } \emptyset$   
 $(= 1) \text{ KIN} \rightarrow K, 1 \text{ set } A_1 \text{ reset } R_1$

1.  $(R_1 \text{ OR}(K) = 0) \text{ rep. } \emptyset$   
 $(= 1) \text{ unsets}$

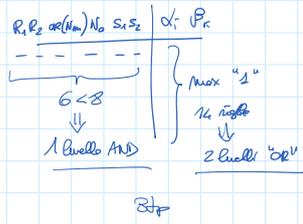
- o  $\emptyset$ . ( $R_1, R_2 = 00$ ) map,  $\emptyset$  ( $=10$ )  $IN \rightarrow M[INS]$ ,  $INS++$ ,  $N++$ , set  $A_1$ , read  $R_1$ , 2  
 ( $=01$ ) map, 1, ( $=11$ )  $IN \rightarrow OUT$ , set  $A_2$ , reset  $R_1$ , set  $A_2$ , reset  $R_2$ ,  $\emptyset$
- a 1. ( $R_1 = 0$ ) map, 1 ( $=1$ ) ( $IN \rightarrow OUT$ ), set  $A_1$ , reset  $R_1$ , set  $A_2$ , reset  $R_2$ ,  $\emptyset$
- 10 2. ( $R_1, R_2, \alpha(N), N_0 = 00$ ) map, 2, ( $=10-0$ )  $IN \rightarrow M[INS]$ ,  $INS++$ ,  $N++$ , set  $A_1$ , reset  $R_1$ , 2  
 ( $=10-1$ ) map, 4 ( $=111-$ )  $M[ESTR] \rightarrow OUT$ ,  $N--$ ,  $ESTR++$ , set  $A_2$ , reset  $R_2$ , 2  
 ( $=010-$ ) map, 1 ( $=1110$ )  $M[ESTR] \rightarrow OUT$ ,  $IN \rightarrow M[INS]$ ,  $INS++$ ,  $ESTR++$ , set  $A_1$ , read  $R_1$ , set  $A_2$ , read  $R_2$ , 2  
 N - doppio punto ?
- 11 4. ( $R_2 = 0$ ) map, 4 ( $=1$ )  $M[ESTR] \rightarrow OUT$ ,  $N--$ ,  $ESTR++$ , set  $A_2$ , reset  $R_1$ , 2.

$N_0(k)$  M  
 $N_0(k)$  INS  
 $N_0(k)$  N  
 $N_0(k)$  ESTR  
 $N_0(k)$  OUT k st



$T_{CPU} = 2tp$   
 $T_{OP} = \max\{t_0 + t_k, t_{alu}\}$   
 $M[ESTR] \rightarrow OUT$

**PC** # input # bit di stato # fasi  
 # livelli AND (ORC WRC) # livelli OR  
 $T_{wpc} = T_{OPC} = 3tp$



$B_N = 1$  sse  $\bar{S}_1 \bar{S}_2 \bar{R}_1 \bar{R}_2$   
 $R_1, R_2, N_0 + \dots$

$\gamma = 2tp + \max\{2tp, \frac{tp}{3tp} + \frac{tp}{tp+t_k}\} + tp$

$\gamma = (2 + 3 + 10 + 2 + 1)tp$   
 $\gamma = 18tp$

$\pi = \frac{1\gamma + 1\gamma}{2} = 18tp$

$B = \frac{1}{18tp}$

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mercoledì 25 ottobre 2017 09:00

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mercoledì 25 ottobre 2017 09:00

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mercoledì 25 ottobre 2017 09:00

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mercoledì 25 ottobre 2017 09:00

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mercoledì 25 ottobre 2017 09:00

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mercoledì 25 ottobre 2017 09:00

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mercoledì 25 ottobre 2017 09:00

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mercoledì 25 ottobre 2017 09:00

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mercoledì 25 ottobre 2017 09:00