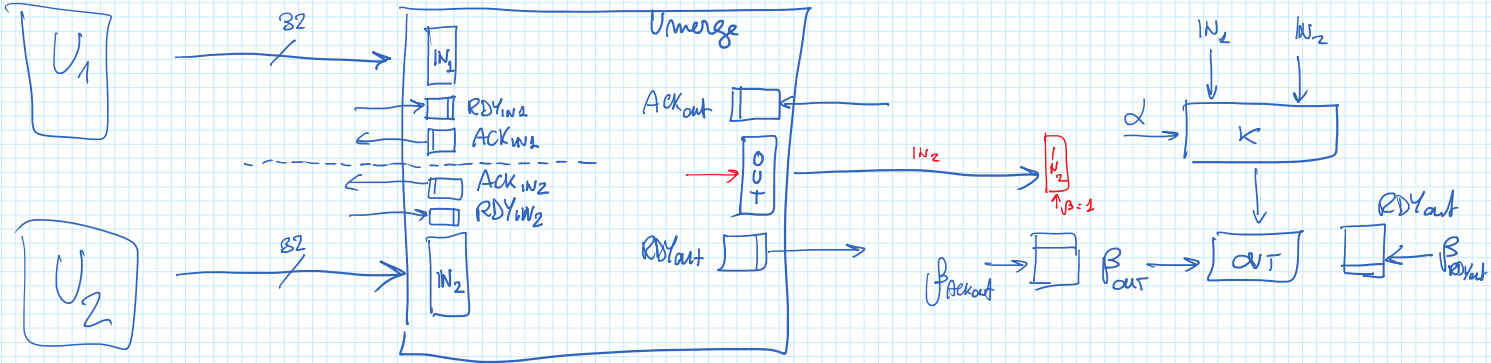


Orientevo
 $\rightarrow \text{min } T = \mathcal{O} \sum p_i k_i$
 $\rightarrow \mathcal{O}$



di quale Unità ho inviato l'ultima volta

ultima op
 TURNO = 0 \Rightarrow $IN_1 \rightarrow OUT$
 = 1 \Rightarrow $IN_2 \rightarrow OUT$

$\emptyset \cdot (RDY_{in1}, RDY_{in2} = \emptyset \emptyset)$ map, \emptyset
 (= $\emptyset 1$) $IN_2 \rightarrow OUT$, set RDYout, $1 \rightarrow TURNO$, set ACKin2, reset RDYin2, \emptyset
 (= $1 \emptyset$) $IN_1 \rightarrow \emptyset$
 (= $1 1$) $IN_2 \rightarrow \emptyset$
 (Annotations: $IN_2 \rightarrow \emptyset$, $IN_1 \rightarrow \emptyset$, $IN_2 \rightarrow$, $IN_1 \rightarrow$, $interazione con U3$, $fattore$, $interazione con U2$)

$\emptyset \cdot (RDY_{in1}, RDY_{in2}, ACKout, TURNO = \emptyset \emptyset - -)$ map, \emptyset ①
 (= $\emptyset 1 1 -$) $IN_2 \rightarrow OUT$, set RDYout, reset ACKout, $1 \rightarrow TURNO$, set ACKin2, reset RDYin2, \emptyset
 (= $\emptyset 1 \emptyset -$) map, \emptyset
 (= $1 \emptyset 1 -$) \emptyset stesso di \emptyset con indici 1 invece di 2 ② $0 \rightarrow TURNO$
 (= $1 \emptyset \emptyset -$) map, \emptyset
 (= $1 1 1 0$) ① reset RDYin1 (= $0 \downarrow 1 0 0$)
 (= $1 1 1 1$) ②
 (= $1 1 0 -$) map, \emptyset

$\emptyset \cdot (ACKout, RDY_{in1}, RDY_{in2}, TURNO = 0 - - -)$ map, \emptyset
 (= $1 0 0 -$) map, \emptyset

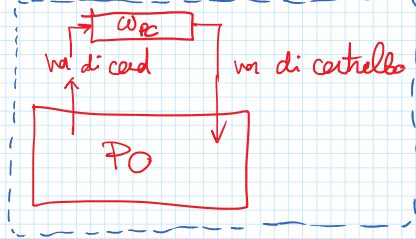
Se il μ -programma ha un'unica μ -istruzione (con un numero

PC: $\left\{ \begin{array}{l} \text{stato} : n^\circ \text{ dello } \mu\text{-istruzione corrente} \\ \alpha : \text{ingressi} \times \text{stato} \rightarrow \alpha, \beta \\ \emptyset : \text{ingressi} \times \text{stato} \rightarrow \text{stato succ} \end{array} \right.$

Un'unica μ -istruzione (con un numero qualunque di fasi) \Rightarrow

La PC è una rete combinatoria

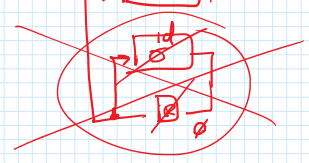
UF



Unica rete seq
PB

~~1~~ : ~~ingressi~~ \times ~~stato~~ \rightarrow ~~stato~~ ~~success~~

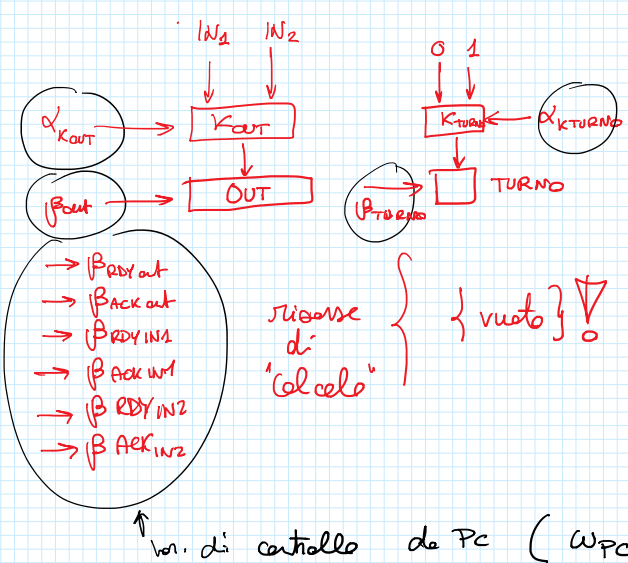
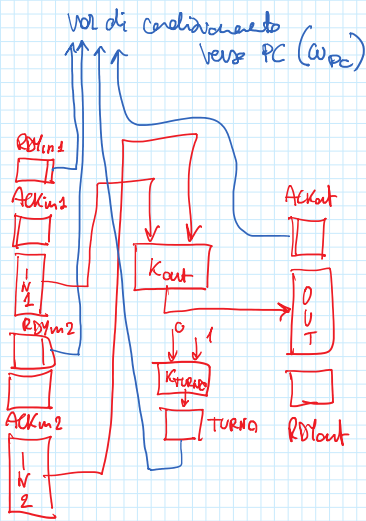
RDY ACK TURNO



$(RDY_{in1}, RDY_{in2}, ACK_{out}, TURNO = \emptyset \emptyset \dots)$ map, \emptyset
 $(= \emptyset 1 1 -)$ $IN_2 \rightarrow OUT, \text{act } RDY_{out}, \text{reset } ACK_{out}, (1 \rightarrow TURNO), \text{set } ACK_{in2}, \text{read } RDY_{in2}, \emptyset$ ①
 $(= \emptyset 1 \emptyset -)$ map, \emptyset
 $(= 1 \emptyset 1 -)$ stesso di con indici 1 invece di 2 ② $0 \rightarrow TURNO$
 $(= 1 \emptyset \emptyset -)$ map, \emptyset
 $(= 1 1 1 0)$ ①
 $(= 1 1 1 1)$ ②
 $(= 1 1 0 -)$ map, \emptyset

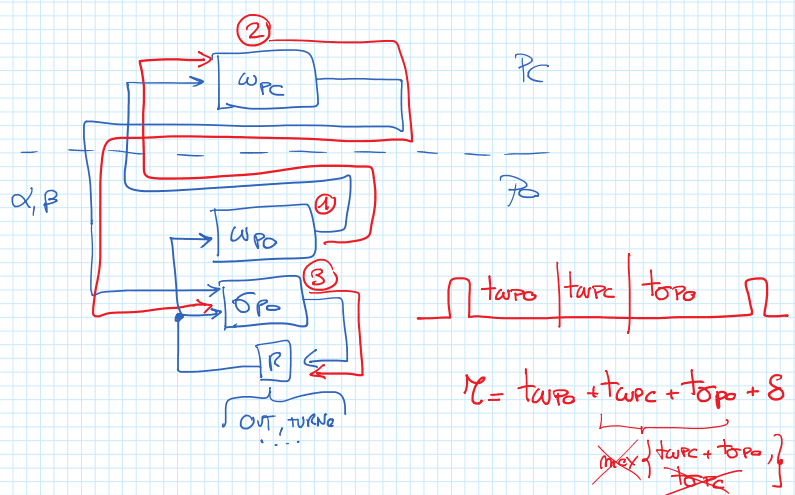
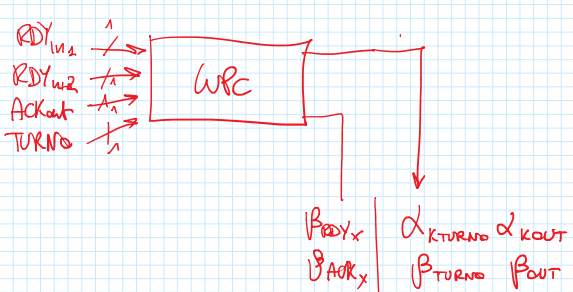
R_1	R_2	A_0	T	α_{kturno}
0	1	1	-	1
1	0	1	-	0
1	1	1	0	1
1	1	1	1	0

$\alpha_{kturno} = \bar{R}_1 R_2 A_0 + R_1 R_2 A_0 \bar{T}$
 8 pin
 5
 6
 7
 8
 tracce
 le pari map



risorse di "calcolo" } vuoto } !
 β_{RDYout}
 β_{ACKout}
 β_{RDYin1}
 β_{ACKin1}
 β_{RDYin2}
 β_{ACKin2}

ver. di controllo da PC (W_{PC})



α_{kturno}	β_{turno}	β_{out}	α_{kout}	β_{out}
0	1	1	0	0
1	0	1	0	0
1	1	0	1	0
1	1	1	0	0

- . $(RDY_{in2}, RDY_{in1}, ACK_{out}, TURNO = \emptyset\emptyset--)$ map, \emptyset ①
- $(=\emptyset11-)$ $IN_2 \rightarrow OUT, set RDY_{out}, reset ACK_{out}, 1 \rightarrow TURNO$ set $ACK_{in2}, reset RDY_{in2}, \emptyset$
- $(=\emptyset1\emptyset-)$ map, \emptyset
- $(=1\emptyset1-)$ $\left[\begin{array}{l} \text{stesso di} \\ \text{con i} \end{array} \right]$ $\left[\begin{array}{l} \text{con i} \\ \text{indici} \end{array} \right]$ 1 invece di 2 ② $\left(\begin{array}{l} 0 \rightarrow TURNO \\ \text{con} \end{array} \right)$
- $(=1\emptyset\emptyset-)$ map, \emptyset
- $(=1110)$ ①
- $(=1111)$ ②
- $(=110-)$ map, \emptyset

R_1	R_2	A_0	T	β_{out}
0	1	1	-	1
1	0	1	-	1
1	1	1	0	1
1	1	1	1	1
1	1	1	-	

$$\beta_{out} = \bar{R}_1 R_2 A_0 + R_1 \bar{R}_2 A_0 + R_1 R_2 A_0 \bar{T} + R_1 R_2 A_0 T = R_1 R_2 A_0 (\bar{T} + T) = R_1 R_2 A_0 \cdot 1 = R_1 R_2 A_0$$

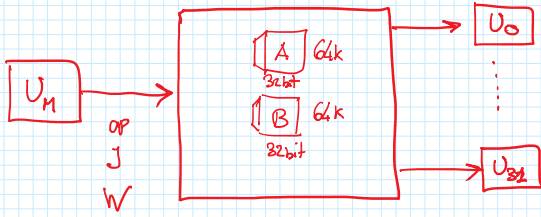
$$\mathcal{C} = t_{wps} + t_{wpc} + t_{sps} + \delta = 5t_p$$

\downarrow $\emptyset t_p$ \downarrow 4 var di condizione \Rightarrow max 4 ingressi \times AND } $\Rightarrow 2t_p$
 \downarrow 8 frasi \Rightarrow max 8 ingressi \times OR

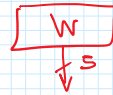
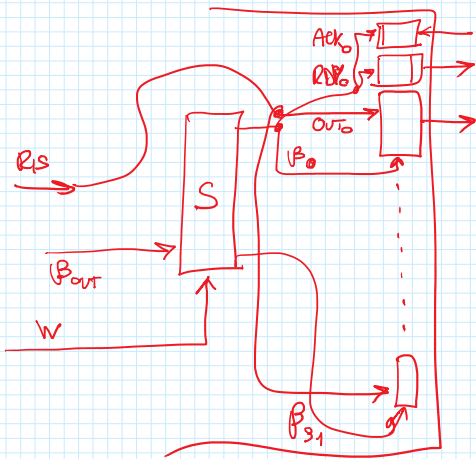
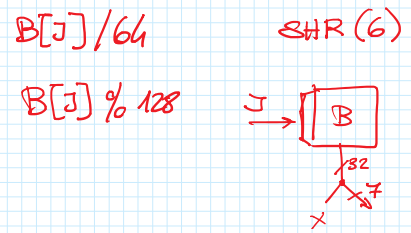
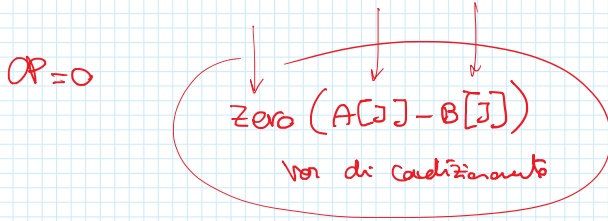
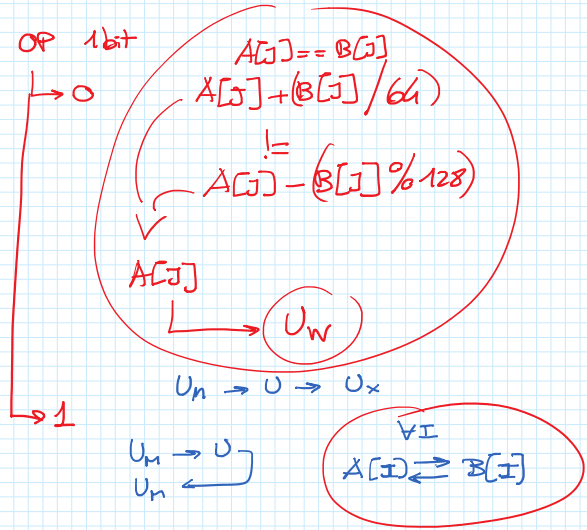
$$\mathcal{T} = \mathcal{C} \cdot \sum_{op-azione} k_i \cdot p_i$$

\downarrow è una sola $p_0 = 1$ $k_0 = ? = 1$

$\mathcal{T} = \mathcal{C}$



$$p(op=0) = p(op=1) = 0.5$$



i. ($W = 00000$) $ACK_0 = 1$
 $ACK_1 = 00001$ $RS \rightarrow OUT_0$,

32
 pezzi } i. ($W, ACK_0, ACK_1, \dots, ACK_{31} = \overbrace{00000}^w 1 - \dots -$)
 $(= 00001 - 1 - \dots -)$ $RS \rightarrow OUT_1, \dots$
 5 32

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