

\emptyset . ($\overline{RDY}_a, \overline{RDY}_b, \overline{CP} = 00-$) map, \emptyset
 $(= -1-)$ $\overline{M[0]} \rightarrow MIN, 1 \rightarrow I, 1$
 $(= 100)$ $X \rightarrow \overline{M[IND]}$, set ACK_a , reset RDY_a , \emptyset
 $(= 101)$ $\emptyset \rightarrow I, 2$

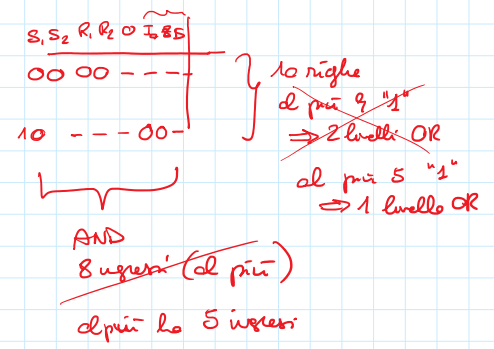
2. ($\overline{I_0}, \overline{Zero}(X - M[I]) = 00$) $I+1 \rightarrow I, 2$
 $(= 01)$ $X/8192 \rightarrow \overline{M[I]}$, $I+1 \rightarrow I, 2$
 $\overline{SHR}(X, 13)$
 $(= 1-)$ set ACK_a , reset RDY_a , \emptyset

1. $\overline{I_0}$, sego ($\overline{MIN - M[I]} = 00$) $\overline{M[I]} \rightarrow MIN, I+1 \rightarrow I, 1$.
 $(= 01)$ $I+1 \rightarrow I, 1$
 $(= 1-)$ $\overline{MIN} \rightarrow \overline{MINB}$, set ACK_b , reset RDY_b , \emptyset

Φ_C
 $T_{wPC} = T_{OPC} = 2tp$
 $\# \text{ stat.} = 2 \text{ bit}$

0.	00
1.	01
2.	10

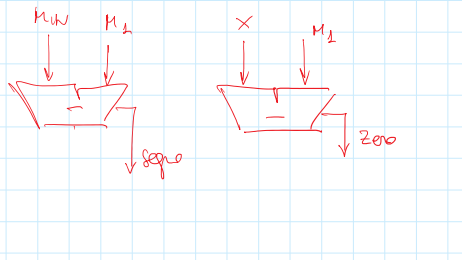
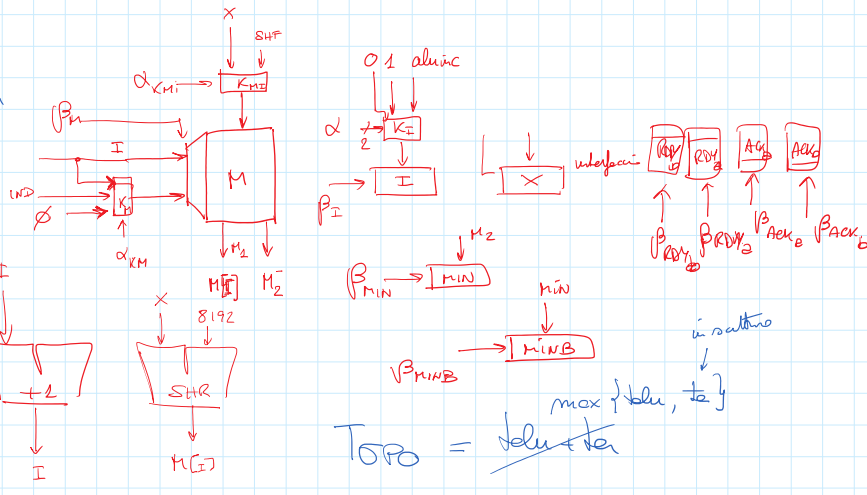
 $\# \text{ von di condizioni} = 6$



Φ_D
 $T_{wPO} = \frac{t_{alu} + t_a}{T_{OPC}}$

\emptyset . ($RDY_0, RDY_1, \alpha P = 00-$) map, \emptyset $T_{wpo} = 0$ \emptyset
 $(= -1-)$ $M[0] \rightarrow MIN, 1 \rightarrow I, 1$ $\max\{t_a, t_k\}$
 $(= 100)$ $X \rightarrow M[MIN]$, set ACK_0 , reset RDY_0 , \emptyset $\max\{t_a, t_k\}$
 $(= 101)$ $\emptyset \rightarrow I, 2$ t_k
 \dots
 $(= 01-)$ $X / 8192 \rightarrow M[I], I+1 \rightarrow I, 2$ $T_{wpo} = (t_{delu} + t_a)$ t_k
 $(= 1-)$ set ACK_0 , reset RDY_0 , \emptyset $\max\{t_{delu}, t_a\}$
 \emptyset
 $(= 01-)$ $I+1 \rightarrow I, 1$ $\max\{t_{delu}, t_a\}$ $t_k + t_{delu}$
 $(= 1-)$ $MIN \rightarrow MINB$, set ACK_0 , reset RDY_0 , \emptyset

- 1) Registri e Memorie
1.1 cosa ci serve
- 2) risorse di calcolo (ALU, k, s)
- 3) collega reg & risorse
- 4) pannino + lungo



$$\tau = T_{wpo}_{max} + \max \left\{ \frac{T_{OPmax}}{2tp}, \frac{T_{OPmax}}{t_k} \right\} + \delta =$$

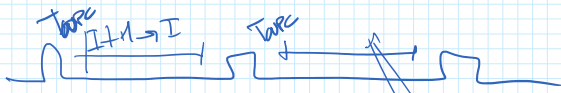
$$= 2t_{delu} + t_a + t_k + 3tp = \textcircled{n}tp$$

$p_0 = 1/3$	op_0	\emptyset			τ
$p_1 = 1/3$	op_1	\emptyset	1. $^{(n-1)}$	1.	$(2 + n - 1)\tau$
$p_2 = 1/3$	op_2	\emptyset	2. $^{(n)}$	2.	$(2 + n)\tau$

$$T = \sum p_i(x_i \tau) = \frac{1}{3} \cdot \tau + \frac{1}{3} (n+1)\tau + \frac{1}{3} (n+2)\tau$$

Home work

testo Faprile 2017 "appello straordinario" → determinare il μ -codice



$$\begin{cases} i. I+1 \rightarrow I, i+1 \\ i+1. M[IND] \rightarrow TEMP, IN \rightarrow X, i+2 \end{cases}$$

$$i. I+1, M[IND] \rightarrow TEMP, IN \rightarrow X, i+2$$

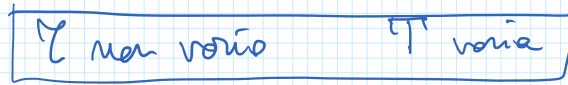
cicli di clock (\times op esterna)

$$w(i) = \{I\}$$

$$R(i+1) = \{IND, M, IN\}$$

$$w(i+1) = \{X, TEMP\}$$

$\cap = \emptyset$



$i+1$ $IND \rightarrow X$

in questo caso il costo è lo stesso

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