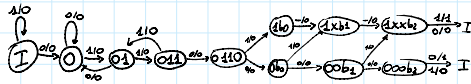


TRACCIA 22-06-2021



STATO	y ₃	y ₂	y ₁	y ₀	x=0	x=1
1	0	0	0	0	0001.0	0000.0
0	0	0	0	1	0001.0	0010.0
01	0	0	1	0	0001.0	0011.0
011	0	0	1	1	0100.0	0010.0
0110	0	1	0	0	0110.0	0101.0
1b0	0	1	0	1	0111.0	0111.0
0b0	0	1	1	0	1000.0	0111.0
1X	0	1	1	1	1001.0	1001.0
00	1	0	0	0	1010.0	1001.0
1XX	1	0	0	1	0000.0	0000.1
000	1	0	1	0	0000.1	0000.0
	1	0	1	1		
	1	1	0	0		

$y_3' y_2' y_1' y_0', z$
 \times 1 1 0 1
 \times 1 1 1 0
 \times 1 1 1 1

$x=0$

	00	01	11	10
00				
01			1	1
11	x	x	x	x
10	1			

$x=1$

	00	01	11	10
00				
01			1	
11	x	x	x	x
10	1			

$$\begin{aligned}
 p_1 &= \overline{y_0} y_1 y_2 \overline{z} & p_4 &= y_0 y_1 y_3 x \\
 p_2 &= y_0 y_3 \overline{z} & y_3' &= p_1 + p_2 + p_3 + p_4 \\
 p_3 &= \overline{y_0} \overline{y_1} y_2 \overline{z}
 \end{aligned}$$

$$y_2' = \overline{y_0} y_3 \overline{z} + y_0 y_1 \overline{y_3} \overline{z} + y_0 y_3 \overline{z} + \overline{y_1} y_3 x$$

$$y_1' = \overline{y_0} y_3 \overline{z} + \overline{y_0} \overline{y_1} y_2 \overline{z} + \overline{y_0} y_1 \overline{y_2} x + y_0 \overline{y_1} \overline{y_2} x + y_0 \overline{y_2} \overline{y_3} x$$

$$y_0' = \overline{y_0} \overline{y_2} \overline{y_3} \overline{z} + y_1 y_3 \overline{z} + y_0 \overline{y_1} \overline{y_2} \overline{y_3} \overline{z} + y_0 \overline{y_1} \overline{y_2} x + y_3 x + \overline{y_0} \overline{y_1} y_2 x$$

$$z = y_0 y_2 \overline{z} + y_1 y_2 x$$

ESERCIZIO 2

$\mu 1$ **IRX** \rightarrow **MAR, 0** \rightarrow **T2**;
 $\mu 2$ **M[MAR]** \rightarrow **MBR, INCR(MAR)** \rightarrow **MAR**;
 $\mu 3$ **MBR** \rightarrow **T1**;
 $\mu 4$ **DECR(T1)** \rightarrow **T1, INCR(MAR)** \rightarrow **MAR**;
 if **OR(T1)=1** then
 $\mu 5$ **M[MAR]** \rightarrow **MBR**;
 $\mu 6$ **MBR** \rightarrow **B, M[MAR]** \rightarrow **MBR**; **/V[i]**
 $\mu 7$ **MBR** \rightarrow **A**; **//V[i+1]**
 $\mu 8$ **A-B** \rightarrow **A**;
 if **A₃₁=1** then
 $\mu 9$ **DECR(MAR)** \rightarrow **MAR**;
 $\mu 10$ **MBR** \rightarrow **M[MAR], INCR(MAR)** \rightarrow **MAR**;
 $\mu 11$ **B** \rightarrow **MBR**;
 $\mu 12$ **MBR** \rightarrow **M[MAR], DECR(T1)** \rightarrow **T1, INCR(T2)** \rightarrow **T2, INCR(MAR)** \rightarrow **MAR, go to c**;
 else
 $\mu 4$ **DECR(T1)** \rightarrow **T1, INCR(MAR)** \rightarrow **MAR, go to c**;
 end
 else
 $\mu 13$ **T2** \rightarrow **AC**;
 end

F	A _{IR}	Z _{IR}	A _{PC}	K _{PC}	A _{AC}	A _{MAR}	A _{MBR}	S	L	E	A _A	A _B	AL ₀	AL ₁	AL ₂	A _{T1}	K ^o _{T1}	K ^o _{T1}	A _{T2}	K ^o _{T2}	K ^o _{T2}	A _{T3}	K ^o _{T3}	K ^o _{T3}	K _{MAR}	A _{IND}	K _{IND}			Bus Indirizzi		Bus Dati	
																														x ₂ x ₁ x ₀	y ₁ y ₁ y ₀	x ₂ x ₀ x ₀	y ₃ y ₂ y ₁ y ₀
μ1	0	-	0	-	0	1	0	0	0	-	0	0	-	-	-	0	-	-	1	1	1	0	-	-	0	0	-			001	001	---	----
μ2	0	-	0	-	0	1	1	0	1	-	0	0	-	-	-	0	-	-	0	-	-	0	-	-	1	0	-			---	---	---	----
μ3	0	-	0	-	0	0	0	0	0	-	0	0	-	-	-	1	0	0	0	-	-	0	-	-	-	0	-			---	---	001	0111
μ4	0	-	0	-	0	0	0	0	0	-	0	0	-	-	-	1	0	0	0	-	-	0	-	-	-	0	-						

[illegible]