

Máquina que controla los estados										modo				estado futuro				full cycle			
Término	P	I	E	s3	s2	s1	s0	M		s3'	s2'	s1'	s0'	U2	U1	U0	R3	R2	R1	R0	FC
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249	1	1	1	1	1	0	0	1	1	1	0	1	1	1	1	1	0
250	1	1	1	1	1	0	1	0	1	1	1	0	1	1	1	0	0
251	1	1	1	1	1	0	1	1	1	1	1	0	1	1	1	0	0
252	1	1	1	1	1	1	0	0	1	1	1	1	1	0	0	1	0
253	1	1	1	1	1	1	0	1	1	1	1	1	0	0	0	1	0
254	1	1	1	1	1	1	1	0	1	1	1	1	0	0	0	0	1
255	1	1	1	1	1	1	1	1	0	1	1	1	0	0	0	0	1

Máquina que controla los estados				
	s3	s2	s1	s0
Estado 0	0	0	0	0
Estado 1	0	0	0	1
Estado 2	0	0	1	0
Estado 3	0	0	1	1
Estado 4	0	1	0	0
Estado 5	0	1	0	1
Estado 6	0	1	1	0
Estado 7	0	1	1	1
Estado 8	1	0	0	0
Estado 9	1	0	0	1
Estado 10	1	0	1	0
Estado 11	1	0	1	1
Estado 12	1	1	0	0
Estado 13	1	1	0	1
Estado 14	1	1	1	0
Estado 15	1	1	1	1

Ecuaciones de la máquina principal	
$S[3]' = (\neg S[3]) \wedge (S[2]) \wedge (S[0] \wedge S[1] \wedge M) \vee (S[3] \wedge (\neg S[1]) \wedge (\neg S[0])) \vee (S[3] \wedge (\neg M)) \vee (S[3] \wedge (\neg S[2])) \vee (P \wedge S[3] \wedge (\neg S[0])) \vee (P \wedge S[3] \wedge (\neg S[1]));$	
$S[2]' = (\neg S[2]) \wedge S[1] \wedge S[0] \wedge M \vee (S[2] \wedge (\neg S[1]) \wedge (\neg S[0])) \vee (S[2] \wedge (\neg M)) \vee ((\neg S[3]) \wedge S[2]) \wedge (\neg S[0]) \vee (P \wedge S[2] \wedge (\neg S[0])) \vee ((\neg S[3]) \wedge S[2] \wedge (\neg S[1])) \vee (P \wedge S[2] \wedge (\neg S[1]));$	
$S[1]' = ((\neg S[1]) \wedge (\neg S[2]) \wedge (S[0] \wedge M)) \vee ((\neg S[3]) \wedge (\neg S[1]) \wedge (S[0] \wedge M)) \vee (P \wedge (\neg S[1]) \wedge (S[0] \wedge M)) \vee (S[1] \wedge (\neg M)) \vee ((\neg S[2]) \wedge (S[1]) \wedge (\neg S[0])) \vee ((\neg S[3]) \wedge (S[1]) \wedge (\neg S[0])) \vee (P \wedge S[1] \wedge (\neg S[0]));$	
$S[0]' = (E \wedge (\neg S[3]) \wedge (\neg S[2]) \wedge (\neg S[1]) \wedge (\neg S[0])) \vee (\neg P \wedge S[3] \wedge S[2] \wedge M) \vee (S[3] \wedge S[2] \wedge S[1] \wedge M) \vee (S[1] \wedge (\neg S[0]) \wedge M) \vee (S[0] \wedge (\neg M)) \vee (S[3] \wedge (\neg S[0]) \wedge M) \vee (S[2] \wedge (\neg S[0]) \wedge M);$	

Sistema total

Entradas totales	
1	Q
2	L
3	B3
4	B2
5	B1
6	B0
7	I
8	m

Salidas totales	
1	U2
2	U1
3	U0
4	R3
5	R2
6	R1
7	R0
8	FC