

Marc Damon López

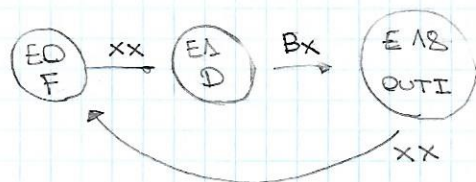
EXERCICIS A PAPER TEMA 13 (primera).

Sintaxis ensamblador: AUTI N8, M4

Semántica: $OUTPUT[NB] = SE(M4)$

Formato: 1011 1111 1111 1111

Nou Graf d'estats:

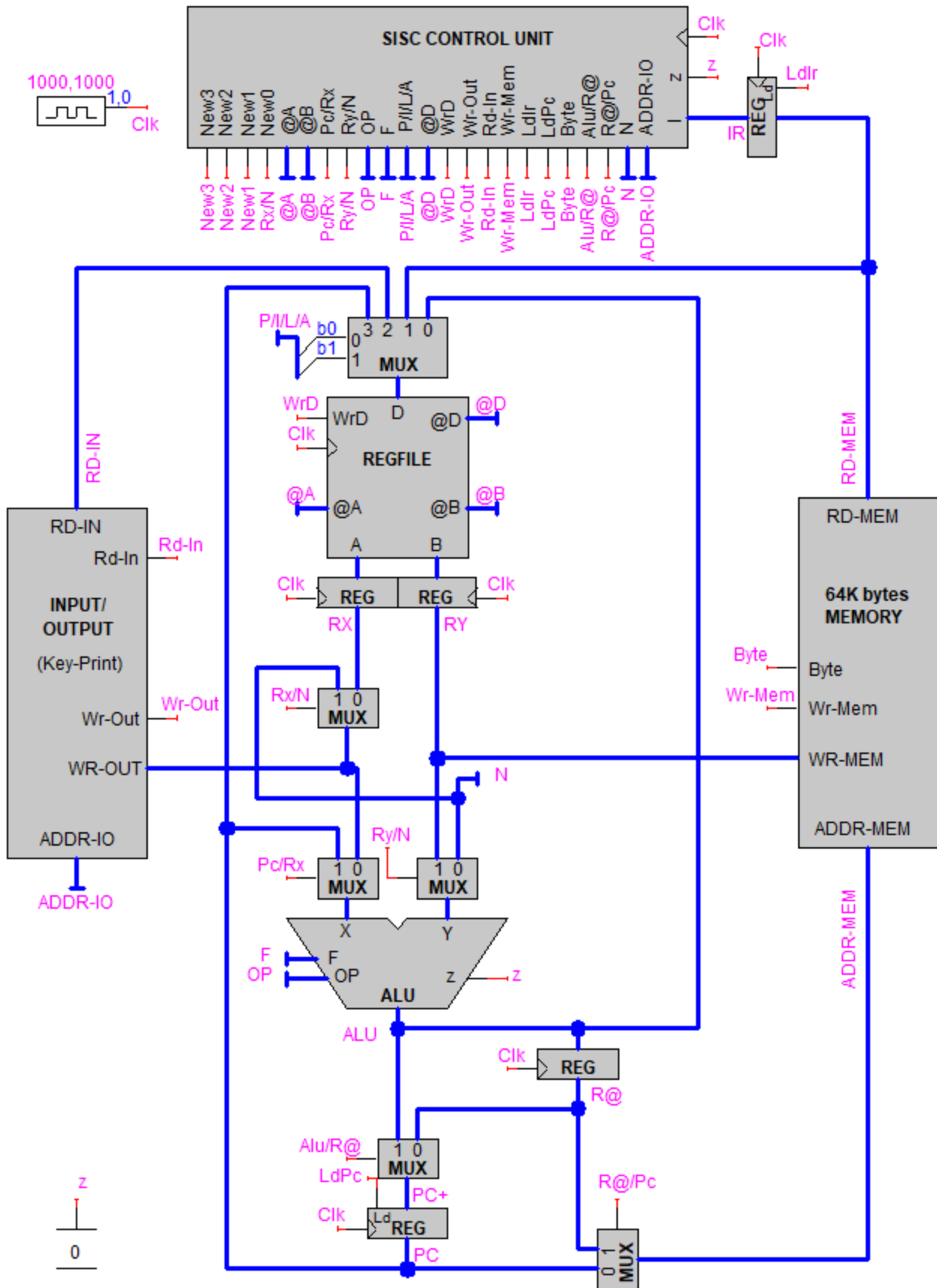


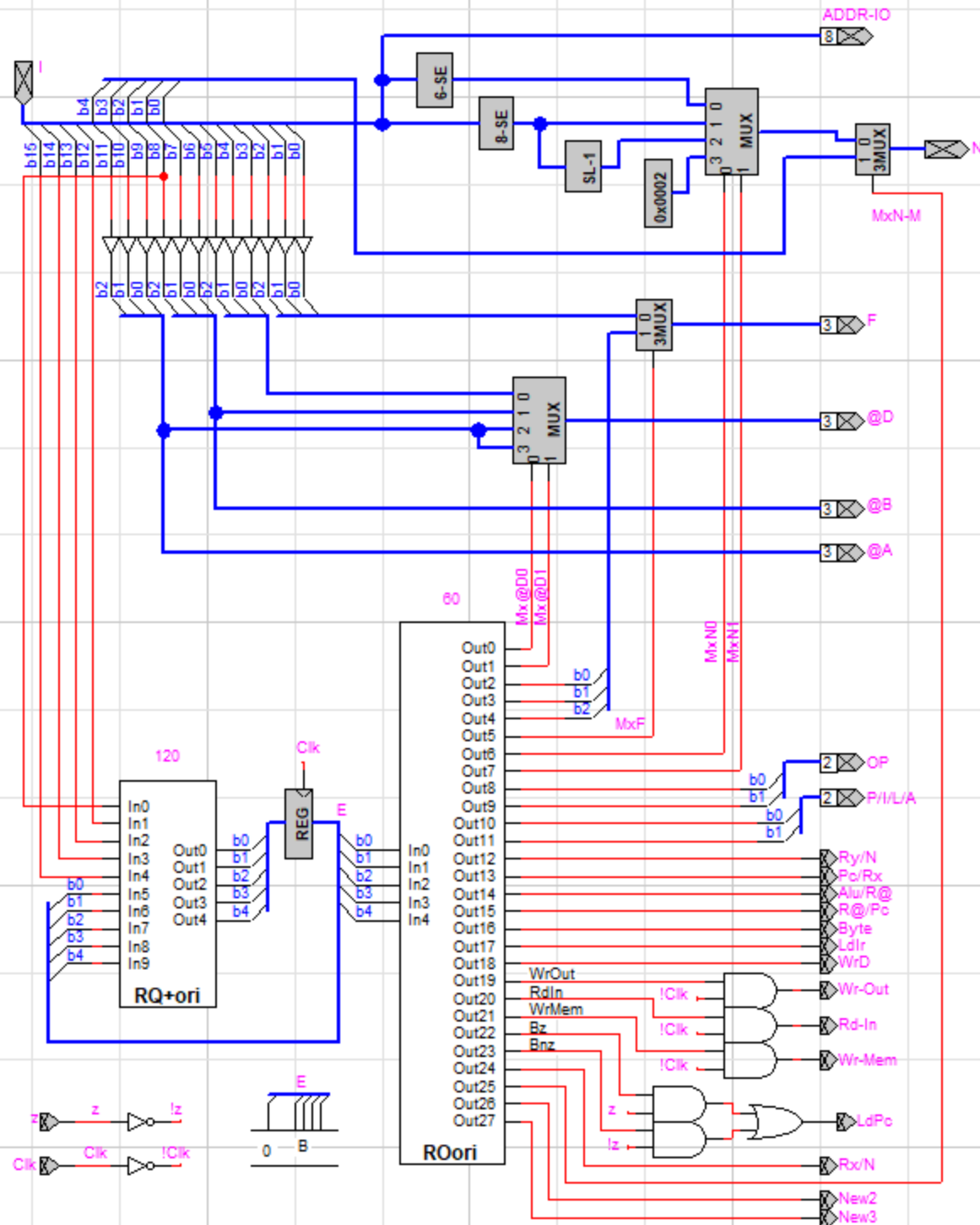
Actions non états:

EO F IR ← MEM, [PC] // PC ← PC + 2

E1 D $R_a \leftarrow PC + SE(N8) * 2 \quad // \quad R_x \leftarrow R_a \quad // \quad R_y \leftarrow R_b$

E18 $\text{outI} \quad \text{Output}[N8] \leftarrow \text{SE}(M4)$





Apellidos y Nombre: Grupo: DNI:

Nuevo contenido de la ROM_OUT:

@ROM			Rx/N	WxN-H	Bnz	Bz	WrMem	RdIn	WrOut	WrD	Ldr	Byte	R@/Pc	Alu/R@	Pc/Rx	Ry/N	P/I/L/A1	P/I/L/A0	OP1	OP0	MxN1	MxN0	MxF	F2	F1	F0	Mx@D1	Mx@D0	Node
0			X	0																								F	
1			X	0																								D	
2			0	X																								Al	
3			0	X																								Cmp	
4			0	0																								Addi	
5			0	0																								Addr	
6			X	X																								Ld	
7			X	X																								St	
8			X	X																								Ldb	
9			X	X																								Stb	
10			0	X																								Jalr	
11			0	X																								Bz	
12			0	X																								Bnz	
13			X	0																								Movi	
14			0	0																								Movhi	
15			X	X																								In	
16			X	X																								Out	
17			X	X	0 0	0 0	0 0	0 0	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	Nop	
18			1	1	0 0	0 0	1 0	0	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	OUTI	
..31																													Nop

MODIFICACIONES A LA ROM Q+

• ROM-Q+ [00001 1011x] = 0x12, ROM-Q+ [10010 xxxxx] = 0x00