

Control microprogramado

Algoritmo de Booth (MC2 m)

Tabla de la CROM

Dirección	μOperaciones	Bits LCB	μDir. salto
Ciclo de búsqueda			
ADDR(FETCH)	PC → MAR	0 0 0	-----
ADDR(FETCH)+1	M → GPR; PC+1 → PC	0 0 0	-----
ADDR(FETCH)+2	GPR(OP) → OPR	1 1 1	-----
Ciclo de ejecución de MC2 m			
ADDR(MC2)	GPR(AD) → MAR	0 0 0	-----
ADDR(MC2)+1	M → GPR	0 0 0	-----
ADDR(MC2)+2	AC ← 0; Q _{n+1} ← 0; SC ← n	0 0 0	-----
ADDR(MC2)+3	SC ← SC - 1	0 1 0	ADDR(MC2)+7
ADDR(MC2)+4	-----	0 1 1	ADDR(MC2)+6
ADDR(MC2)+5	AC ← AC+BR	0 0 1	ADDR(MC2)+7
ADDR(MC2)+6	AC ← AC+BR+1	0 0 0	-----
ADDR(MC2)+7	ashr (AC & QR)	1 0 0	ADDR(MC2)+3
ADDR(MC2)+8	-----	0 0 1	ADDR(FETCH)

Tabla de la LCB

S2	S1	S0	Qn	Qn+1	ZSC	I	B	R
0	0	0	X	X	X	1	0	0
0	0	1	X	X	X	0	1	0
1	1	1	X	X	X	0	0	1
0	1	0	0	0	X	0	1	0
0	1	0	0	1	X	1	0	0
0	1	0	1	0	X	1	0	0
0	1	0	1	1	X	0	1	0
0	1	1	0	X	X	1	0	0
0	1	1	1	X	X	0	1	0
1	0	0	X	X	0	0	1	0
1	0	0	X	X	1	1	0	0

