

Unidad de control (ASM)

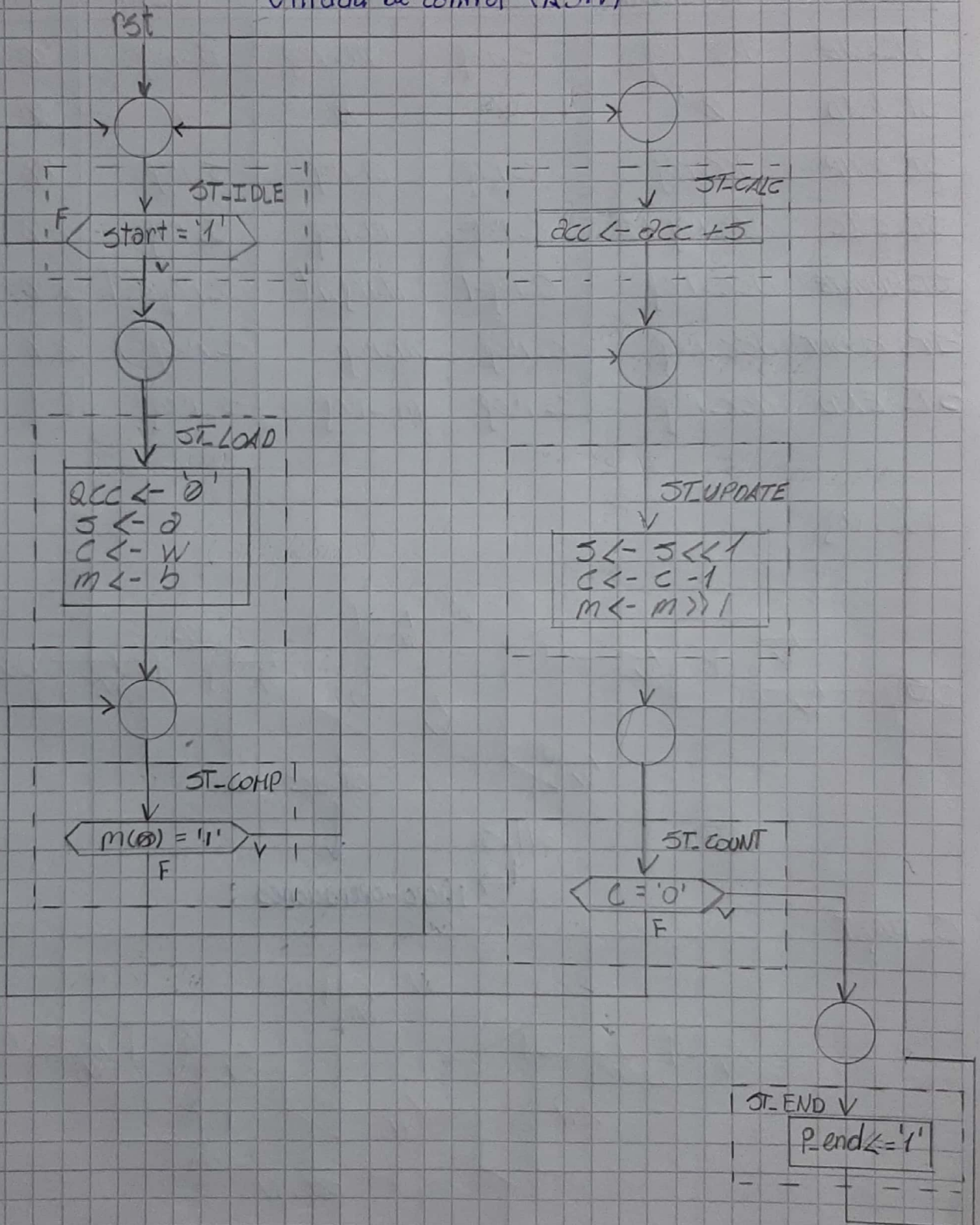
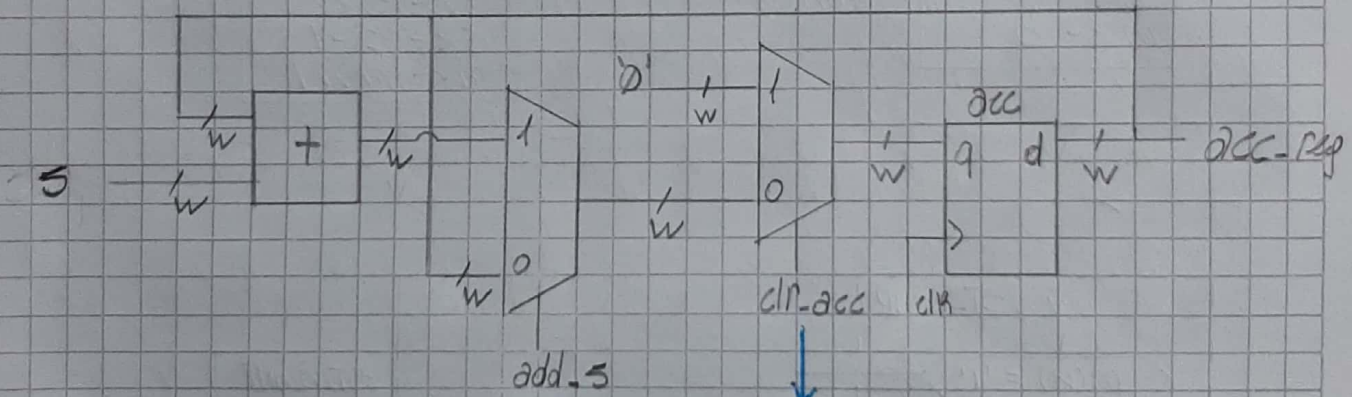


Tabla de transiciones (datapath)

Estado	acc-next	C-next	m-next	S-next	P
ST-IDLE	acc-reg	C-reg	m-reg	S-reg	0
ST-LOAD	0	W	b	a	0
ST-COMP	acc-reg	C-reg	m-reg	S-reg	0
ST-CALC	acc-reg + S	C-reg	m-reg	S-reg	0
ST-UPDATE	acc-reg	C-reg - 1	m-reg >> 1	S-reg << 1	0
ST-COUNT	acc-reg	C-reg	m-reg	S-reg	0
ST-END	acc-reg	C-reg	m-reg	S-reg	1

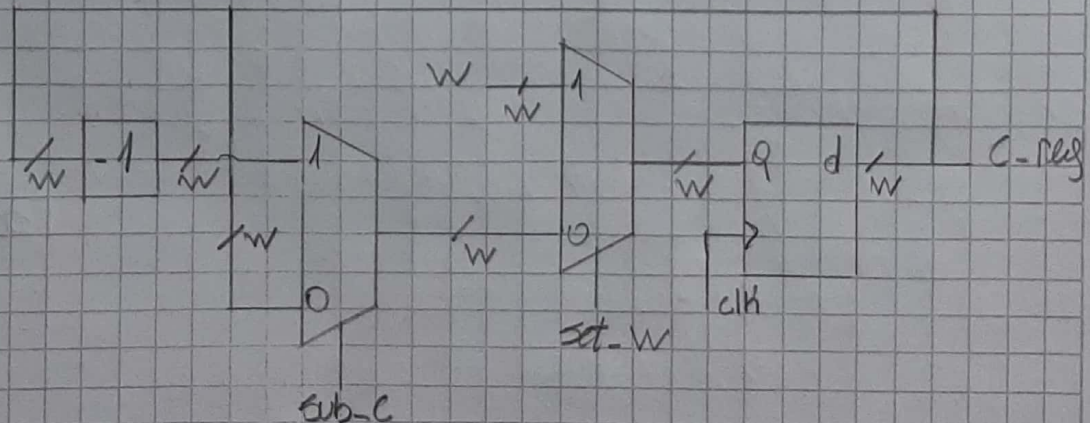
RTL de los datapath

acc-reg

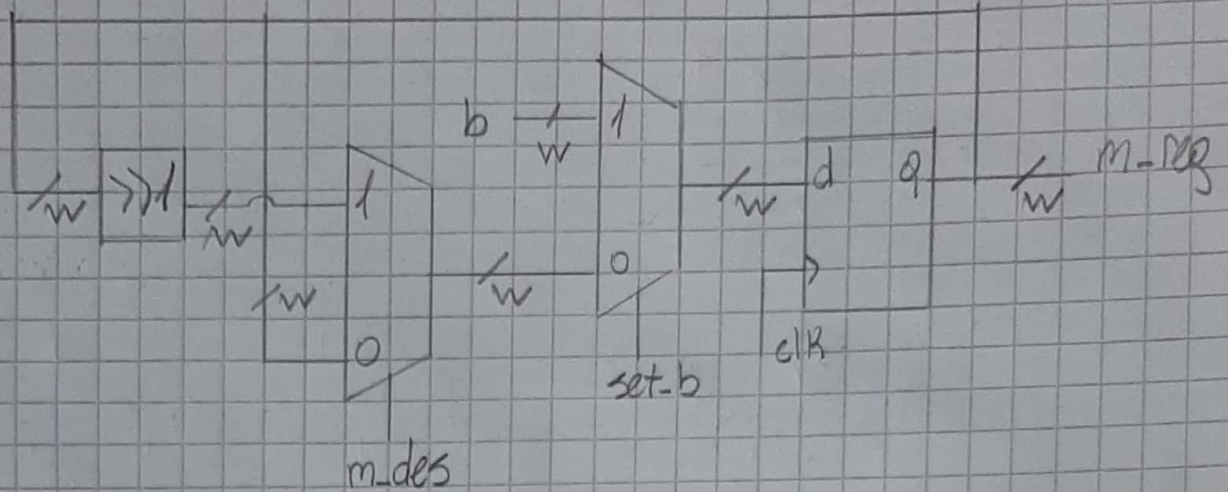


Micro-operaciones :

C-reg



m-reg



s-reg

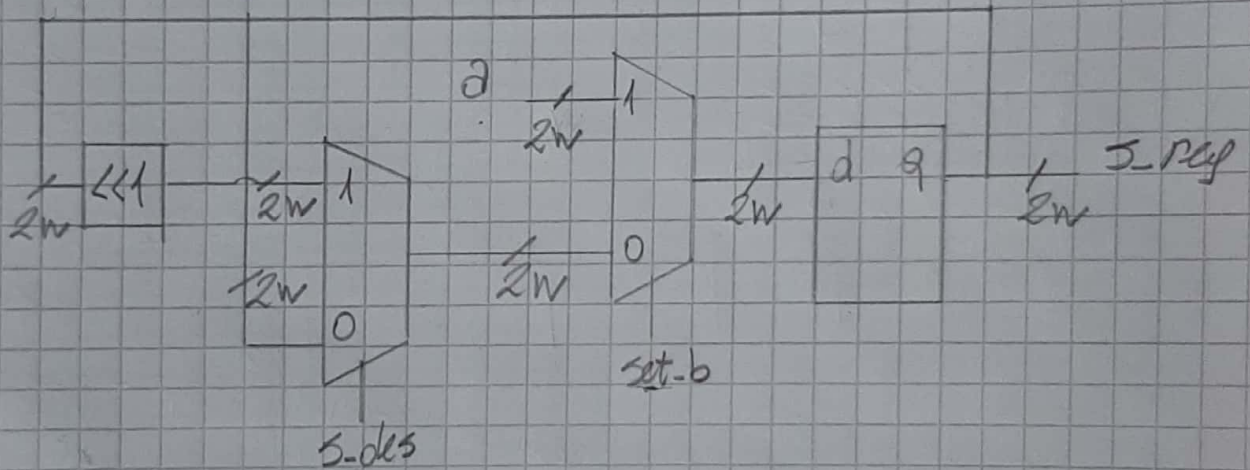


Tabla de transiciones (estados)

state-reg	state-next					
	start=0	start=1	m(0)=0	m(0)=1	c=0	c=1
ST_IDLE	ST_IDLE	ST_LOAD	—	—	—	—
ST_LOAD	ST_COMP	ST_COMP	ST_COMP	ST_COMP	ST_COMP	ST_COMP
ST_COMP	—	—	ST_UPDATE	ST_CALC	—	—
ST_CALC	ST_UPDATE	ST_UPDATE	ST_UPDATE	ST_UPDATE	ST_UPDATE	ST_UPDATE
ST_UPDATE	ST_CONT	ST_CONT	ST_CONT	ST_CONT	ST_CONT	ST_CONT
ST_COUNT	—	—	—	—	ST_COMP	ST_END
ST_END	ST_IDLE	ST_IDLE	ST_IDLE	ST_IDLE	ST_IDLE	ST_IDLE