



Compute $Ax+B$

Step	Reset	1	2	3	4	5	6	Comments on Steps
X		5	7	3	3	3	3	
RA	0	0	5	5	5	15	15	Reset : Clear Regs
RB	0	0	0	7	7	7	7	1 Load RA from X
RR	0	0	0	0	15	15	22	2 Load RB from X
SelxR	0	0	0	0	1	0	0	3 $RA \times X$, Load RR
SelxA	0	0	0	0	0	1	0	4 $RA \leftarrow [RR]$
SelAB	0	0	0	0	0	1	0	5 $RA + RB$, Load RR
LdRA	0	1	0	0	1	0	0	6 Done
LdRB	0	0	1	0	0	0	0	
LdRR	0	0	0	1	0	1	0	
ALUfunc	Add	Add	Add	Mul	Add	Add	Add	

FSM:

