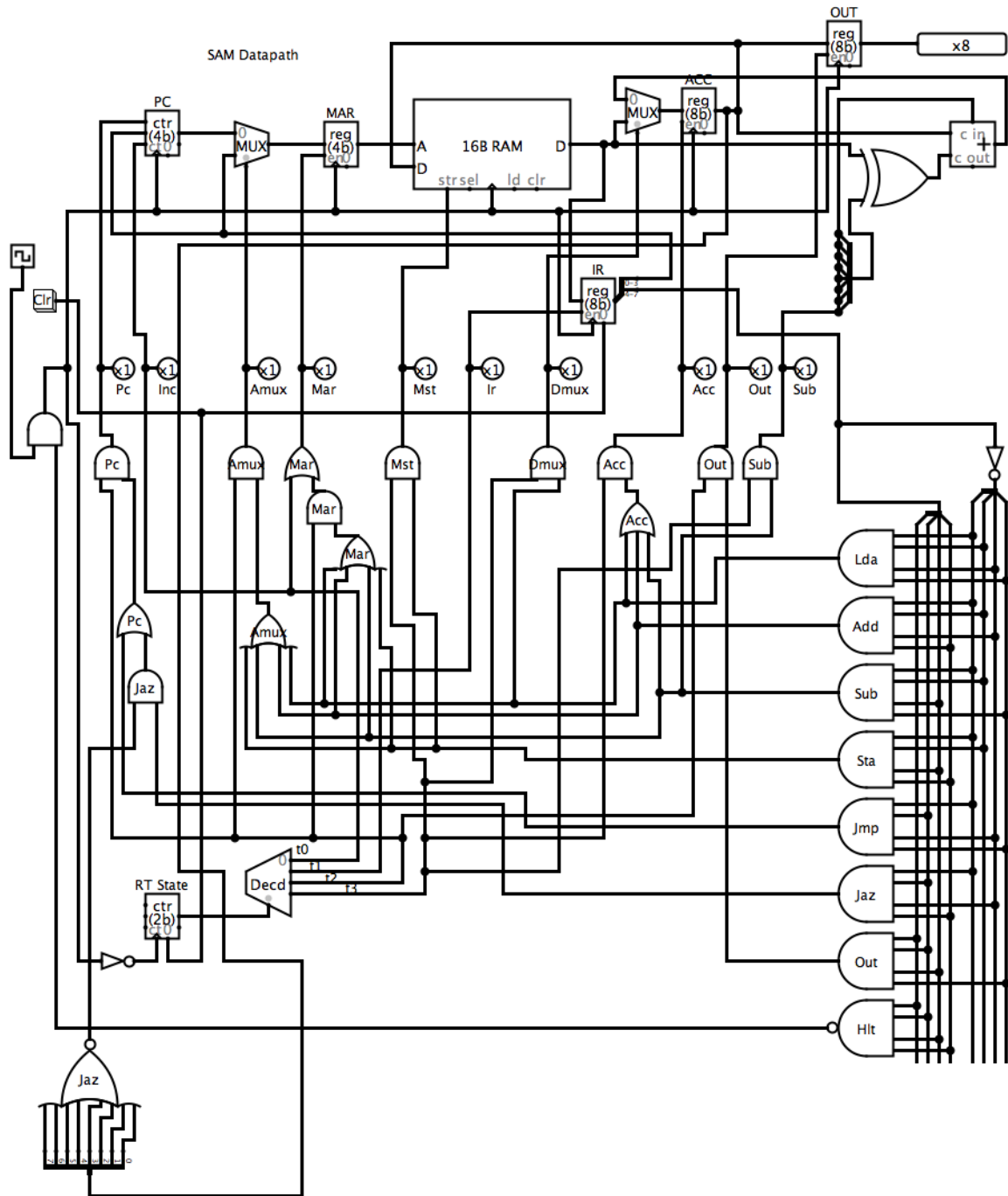


Eli Sobylak

4-Dec-2014

SAM- Final Program

Final Circuit:



Eli Sobylak
4-Dec-2014

Final Program

Final output: 6

Lab 9 - SAM Final Integration and Demonstration

Computer Organization
<http://ada.evergreen.edu/csf/>

Finish and test your SAM to make sure it is working. You may choose your own test program as long as it uses every instruction.

Demonstrate your working SAM to the faculty. Use the following test program from the SAM workshop in Lecture 9 when demonstrating your working SAM to the faculty.

	mem	Count=3	Count=2	Count=1	Count=0
start: Lda count	0A	Nop	Nop	Nop	Saz = done
Jaz done	0C	total = 0	total = 3	total = 5	
Lda total	0D	total = 3	2 + 3 = 5 = total	1 + 5 = 6 = total	
Add count	1C	3 = total	5 = total	6 = total	
Sta total	3D	Count = 3	Count = 2	Count = 1	
Lda count	0C	sub 1	sub 1	sub 1	
Sub one	2E	2 = Count	1 = Count	0 = Count	
Sta count	3C	to start	to start	to start	
Jump start	40				
done: Lda total	0D				
Out	EO				
Hlt	FO				
					total = 6
					out = 6
					Hlt
Count					
total: Dat	8	Loc			
total: Dat	17	12			
Count: Dat	31	13			
one		14			

I demonstrated my SAM circuit to Rik who approved of it's output and function. He then told Neal that I had completed the lab.