

King Saud University

College of Computer and Information Sciences Department of Computer Science

CSC 220: Computer Organization

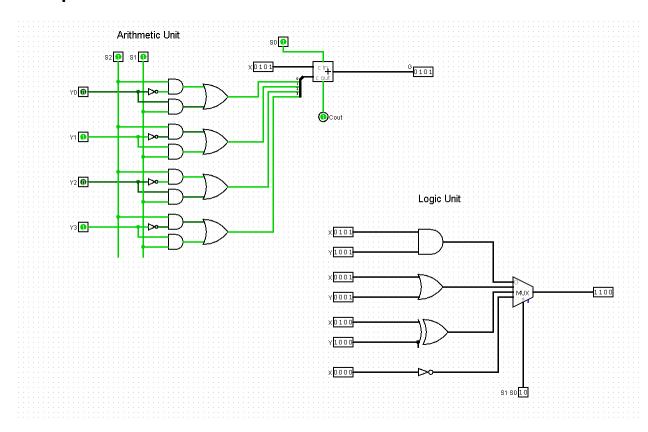
Labwork - 9

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1. Introduction

Today I learn how to draw Arithmetic and Logic unit in logisim.

2. Experiments



3. Results

S2	S1	S0	Operation	
0	0	0	G=X	
0	0	1	G=X+1	
0	1	0	G=X+Y	
0	1	1	G=X+Y+1	
1	0	0	G=X+Y'	
1	0	1	G=X+Y'+1	
1	1	0	G=X-1	
1	1	1	G=X	

S1	S0	Х	Υ	G
0	0	1010	0011	0010
0	1	1010	0000	1010
1	0	0101	0110	0011
1	1	0000	-	1111

4. Discussion

We can Generate an Arithmetic Unit and Logic Unit and we know the truth table for both units.