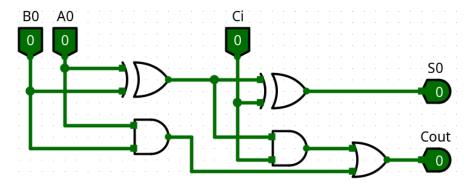
Exercício Prático 2

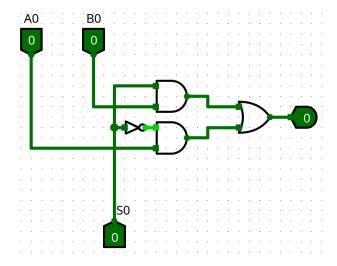
Aluno: Vitor de Meira Gomes

Matrícula: 800643

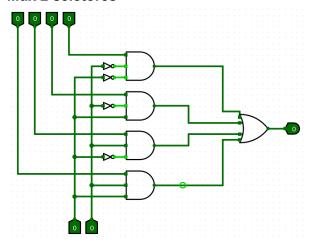
Somador Completo

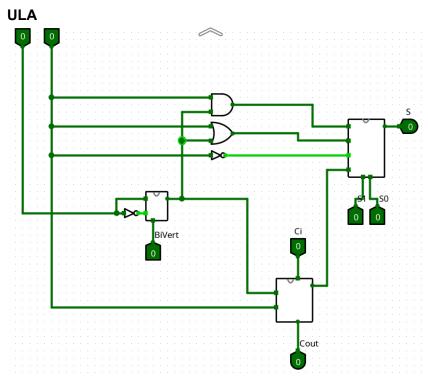


Mux 1 seletor



Mux 2 seletores





ULA 4 Bits

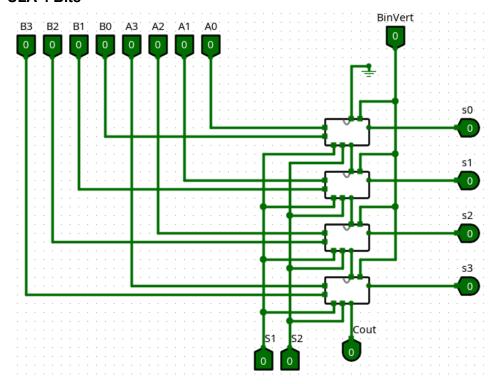


Tabela de resultados

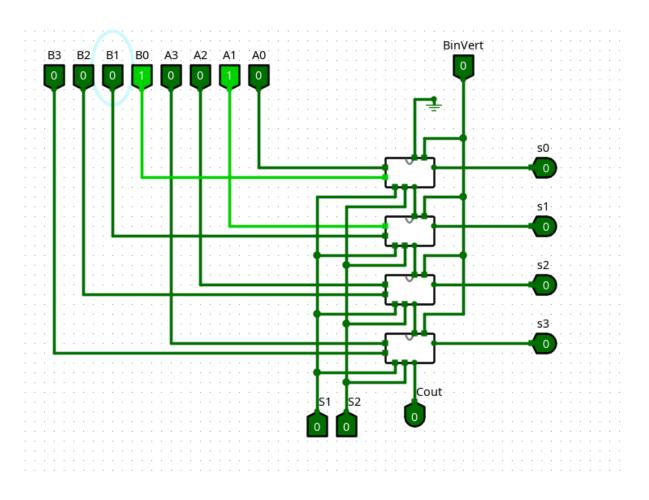
Instrução	Binário	Valor em Hexa	Resultado em
realizada	(A,B,Op.code)	(0x)	binário
AND(A,B)	0010 0001 00	0000 1000 0100	0000
		= 0x084	
OR(A,B)	0010 0011 01	0000 1000 1101	0011
		= 0x08D	
SOMA(A,B)	0010 0011 11	0000 1000 1111	0101
		= 0x08F	
NOT(A)	1100 0011 10	0011 0000 1110	0011
, ,		= 0x30E	

Testes da ULA

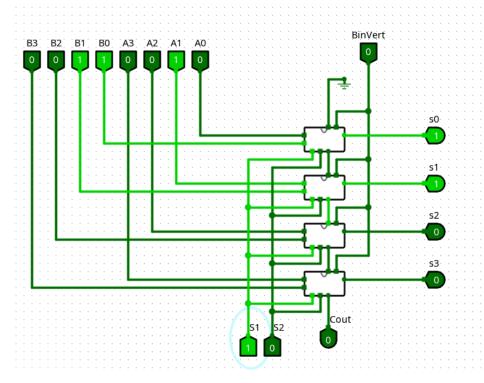
A = 2

B = 1

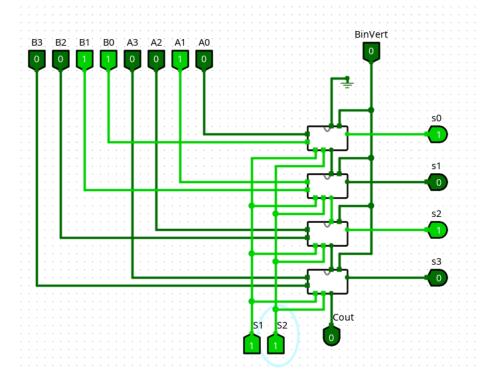
AND(A,B)



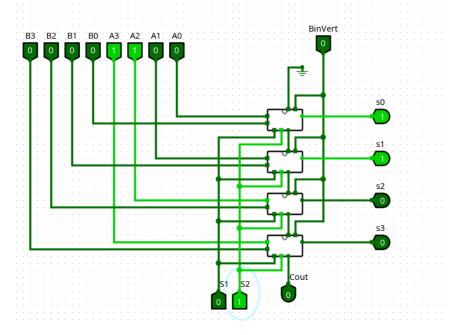
B = 3 OR(A,B)



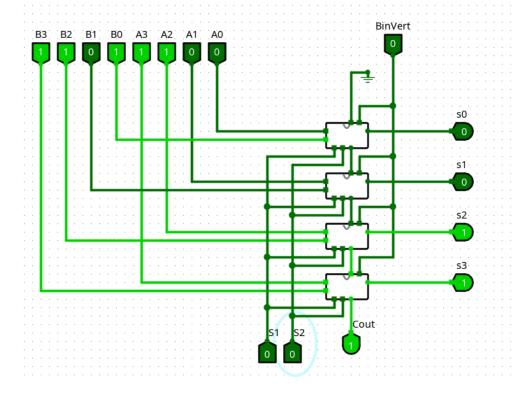
SOMA(A,B)



A = 12 NOTA(A)

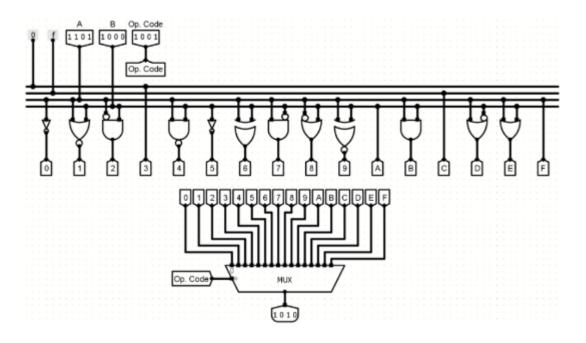


B = 13 AND(B,A)



Parte 2

ULA 74LS181:



Instruções	Binário	Resultado da operação
450	0100 0101 0000	0xB
CB1	1100 1011 0001	0x2
A32	1010 0011 0010	0x1
C43	1100 0100 0011	0x0
124	0001 0010 0100	0xF
785	0111 1000 0101	0x7
9B6	1001 1011 0100	0x2
CD7	1100 1101 0111	0x0
FE8	1111 1110 1000	0xE
649	0110 0100 1001	0xD
D9A	1101 1001 1010	0x9
FCB	1111 1100 1011	0xC
23F	0010 0011 1111	0x2
63C	0110 0011 1100	0xF
98D	1001 1000 1101	0xF
76E	0111 0110 1110	0x7

3) Serão necessárias 4096 linhas, pois há 4 Bits em cada entrada (A, B e seleção). Sendo 2^4 x 2^4 x 2^4 = 2^{12} = 4096.