Projeto 1 - ULA

Nome: Álvaro Lúcio Almeida Ribeiro

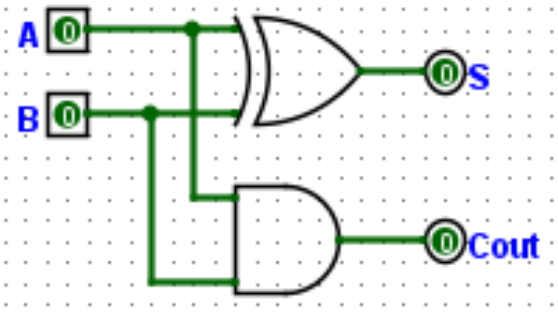
Matrícula: 163

Nome: Ewel Fernandes Pereira

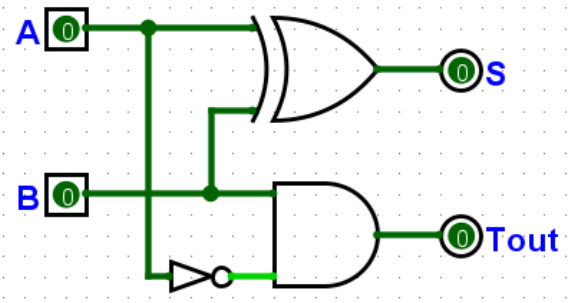
Matrícula: 167

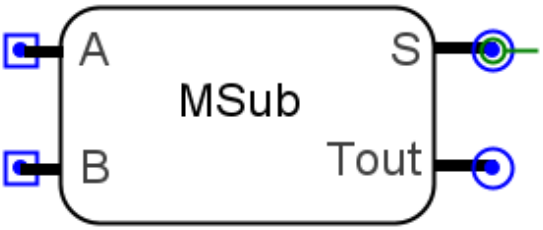
Resolução:

Meio Somador

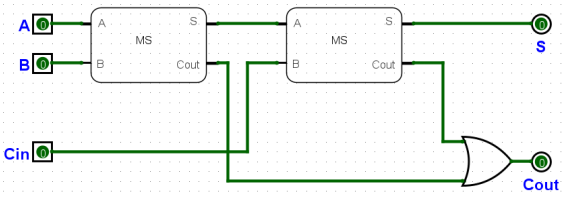


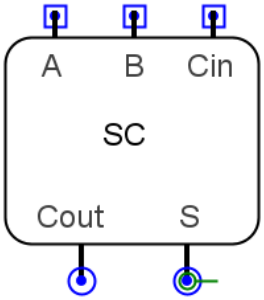
Meio Subtrator



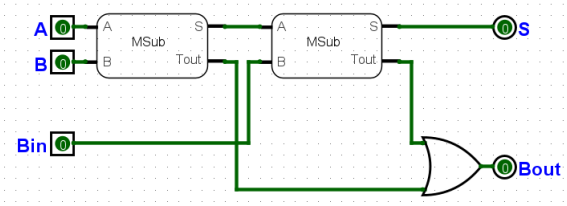


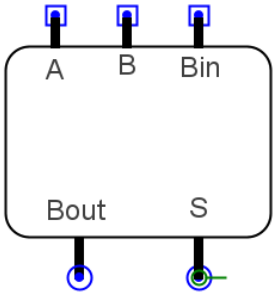
Somador Completo



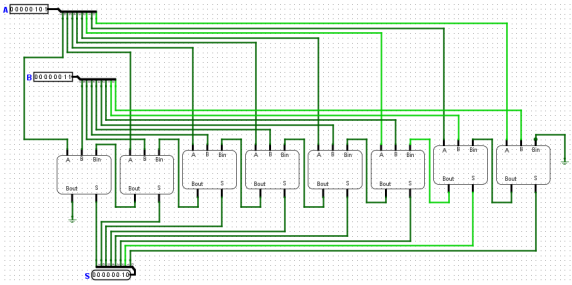


Subtrator Completo

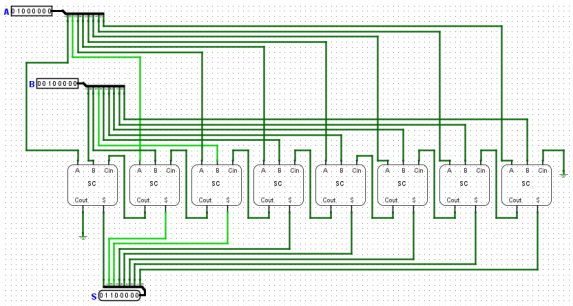


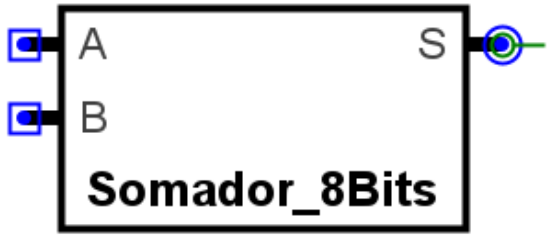


Subtrator completo de 8 Bits:

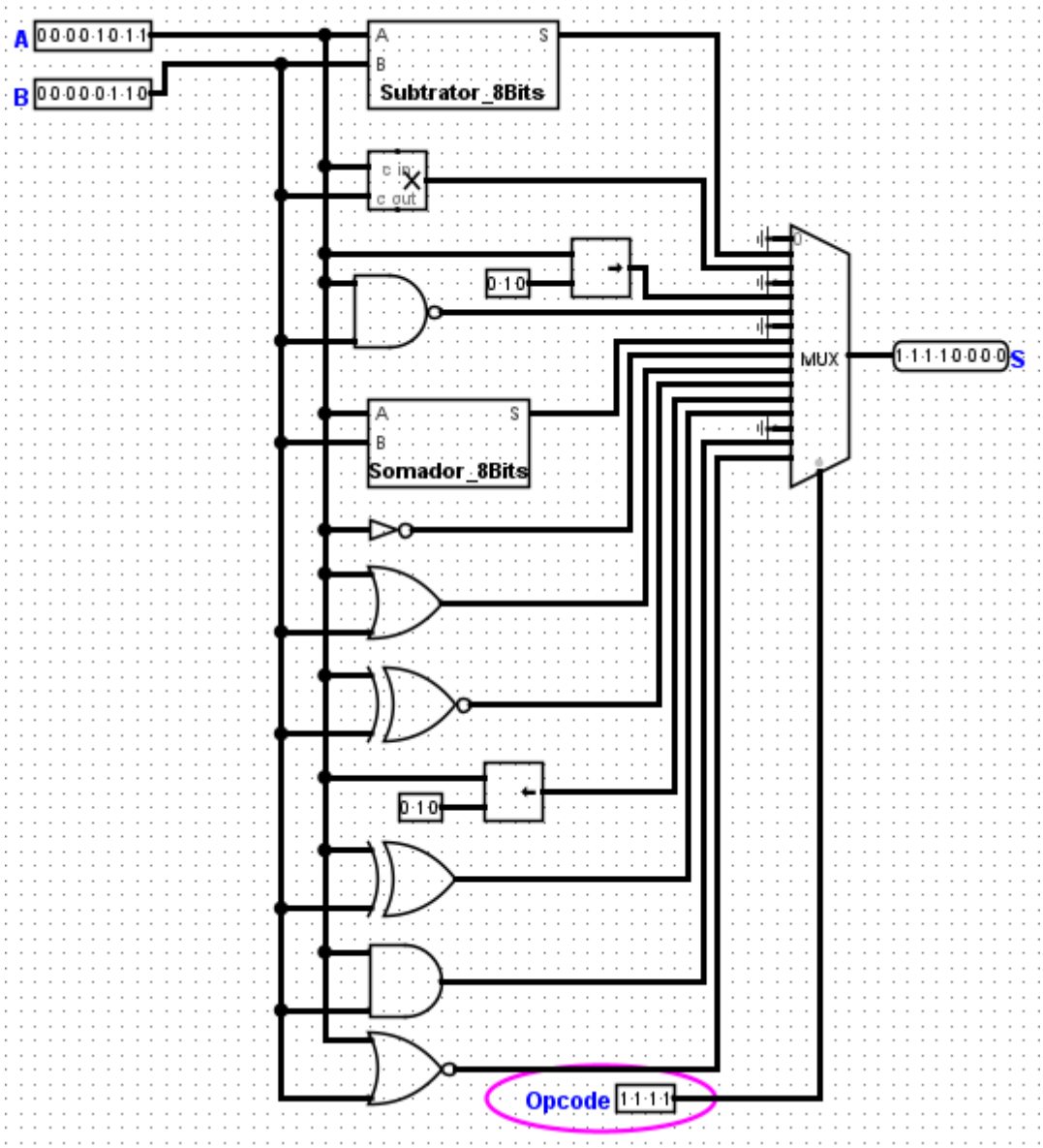


Somador completo de 8 Bits:





Resolução da prospota do Projeto:



- A = 00001011
- B = 00000110

No bit 0: Terra

- S = Terra

No bit 1: Subtração

- S = A - B = 00001011 - 00000110 = 00000101

No bit 2: Multiplicação

- S = A * B = 00001011 * 00000110 = 01000010

No bit 3: Terra

- S = Terra

No bit 4: Deslocamento para Direita

- S = A >> 2 = 00000010

No bit 5: Nand

- S = (A * B)' = (00001011 * 00000110)' = 11111101

No bit 6: Terra

- S = Terra

No bit 7: Adição

- S = A + B = 00001011 + 00000110 = 00010001

No bit 8: Inversora

- S = A' = 11110100

No bit 9: Ou

- S = A | B = 00001011 | 00000110 = 00001111

No bit 10: Não Ou Exclusivo

- S = A ⊙ B = ~(A ⊕ B) = ~(00001011 ⊕ 00000110) = 11110010

No bit 11: Deslocamento Esquerda

- S = A << 4 = 10110000

No bit 12: Ou Exclusivo

- S = A ⊕ B = 00001011 ⊕ 00000110 = 00001101

No bit 13: Terra

- S = Terra

No bit 14: And

- S = A & B = 00001011 & 00000110 = 00000010

No bit 15: Não Ou

- S = (A | B)' = (00001011 | 00000110)' = 11110000
