

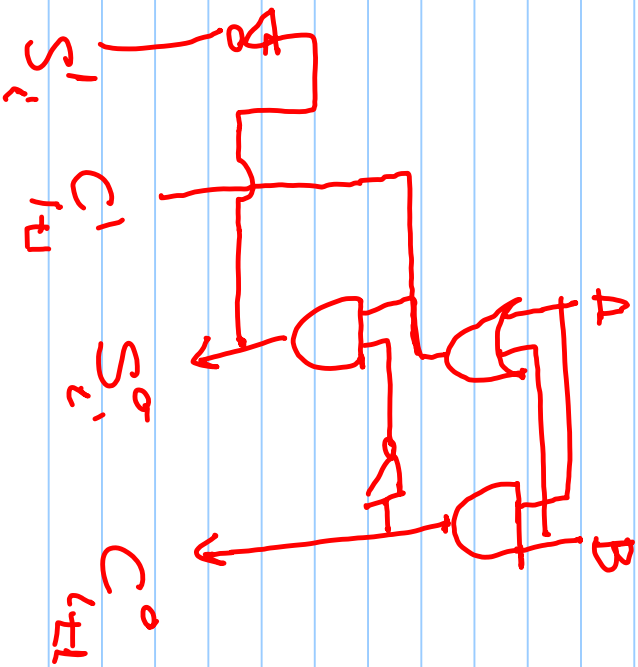
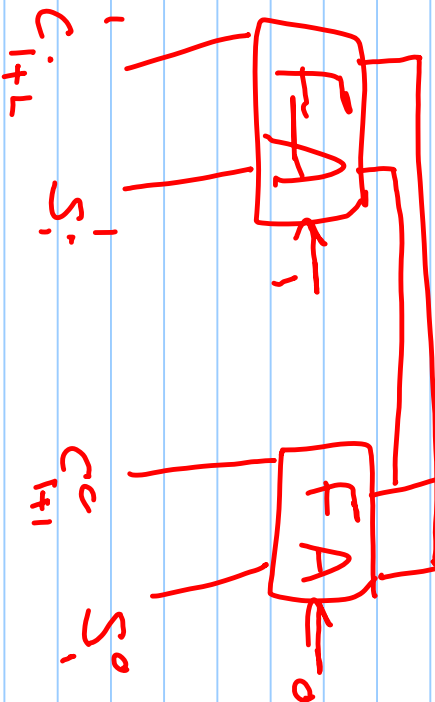
HW1

Note Title

10/10/2007

1 CC 1 bit adder

Conceptually



See the circuit for details

$$2 \text{ (a) } (A * B) * C$$

$$A * B = 1.01 \times 2^{-126} * 1.00 \times 2^{-3} = 1.01 \times 2^{-129}$$

~~over~~ Under Flow

$$b \quad A * (B * C) \quad B * C = 1.0 \times 2^{-3} * 1.0 \times 2^5 = 1.0 \times 2^2 \\ = 1.01 \times 2^{-126} * 1.0 \times 2^2 = 1.01 \times 2^{-124} \quad \text{Valid}$$