Set Topic

A edge trigger

Bit shifter

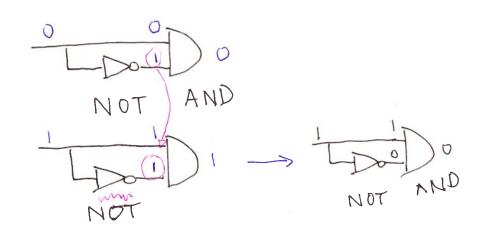
1-bit ALU (Thursday)

Mux word problem

Mux word problem

E iz and fill adders

(RISING) EDGE TRIGGER



During delay of 1 gate of time, it still outputs a 1 \rightarrow occurs when going from 0 \rightarrow 1

For the amount of time it takes to go through the NOT gate is the amount of time it "buffer lags" at 1

Merina Leong Cody Clattenburg

Bit Shifters

Found in microprocessors used to perform accurate multiplication and division

Example. Let's look at 600 in BINARY

Right Shift Left Shift

IN DECIMAL 1210 As we shift LEFT we Multiply by stored base

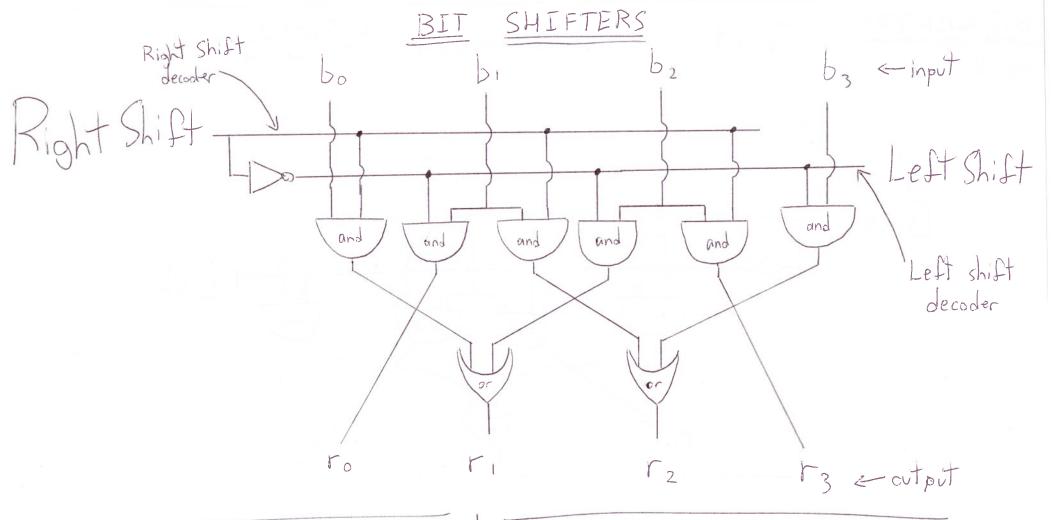
IN this case $6 \times 2 = 12$ Binary : base 2

IN DECIMAL 310 As we shift RIGHT we Divide by stored base

IN this case 6/2=3 (Chill) Yu Qing Qiu Binary : base 2

Cameron Warje

Li-Your Tong



Want to left shift? Make left shift decoder 1, and the right shift decoder 0. Follow the lines with the correct decoder value and your input bits, and you'll get the shift you want.

Dumbed down...

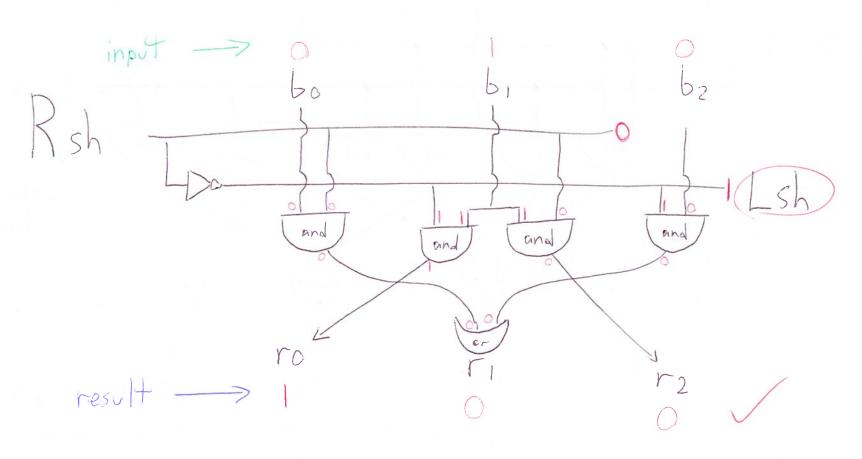
Input of 1 2 3

Left shift Right shift

Lis Yuging, Cameron

BIT SHIFTERS

3 bit left shift example. 210 > 410



Esa Java Lab will be cancelled if - Comorrow with Chris - Snowstorm MUX 1 + CS 76 VCC Dz

SOP= t'c's + t'cs + tc's + tcs' +tcs

black box mux

John & Sam

At Kush hour you'll get stuck in traff or you'll get shuck i'F theres been an accident or Traffic BW Do D3 DH DS VCC = RH A BW

John 4 Sam

Test Half Adder

a b Sum Cout Sop: a'b + ab'

Cout Cout XOR

Cout XOR

Cout XOR

AND

b John Sum

Set ZE Wei Zhang Keny Regan Full Adder

Adds together binary numbers and carry-in

Values from previous stage. This produces two

values of output; The sum, and the carry-out

of of output; The sum cout

of output; The sum coutput

of output

sun a'b'c + a'bc' + abc' + abc

cout a'bc + abc + abc' + abc