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USN-1M618(607)

Lub 5

Steps in designing ALU

Step 1: Add to input pins

Drop two East-lacing input pins on the cumus 4 bits each Label Dand B, and ensure that each input is a bits

Step? - Add the Adder NSubtructor and Gubs

Now we add the subcircults created earlier. Select the circuits under the man project tolder

Stop 3: Add the multiplesiers

These take on or more data inputs and gerriode a single output. In layism, multiplezors are under the plesiers folder, click the multiplesia ican and drop two of them into consus

Step A: Add controls

Drop two pins on the curves north-lucing with I dule bit. Lubel them and I respectively

sleps Add a splitter.

Next, we add a splitter intour circuit that takesom line from the excond multipleans and aplite to 4 inputs to un of gute-for a 4 bit ALU

Step 6. Add another of gate And a Not gate

Now we add an of gute after the spliter, which has

4 inputs to the right of the of gate, add a Not gute

This arrangement account for zero at output when

All of the bits result in zero. The Not gate following

the of gate achieves this.

Finally add a wingle but pin after Not gate to where the result, Lubel it zero

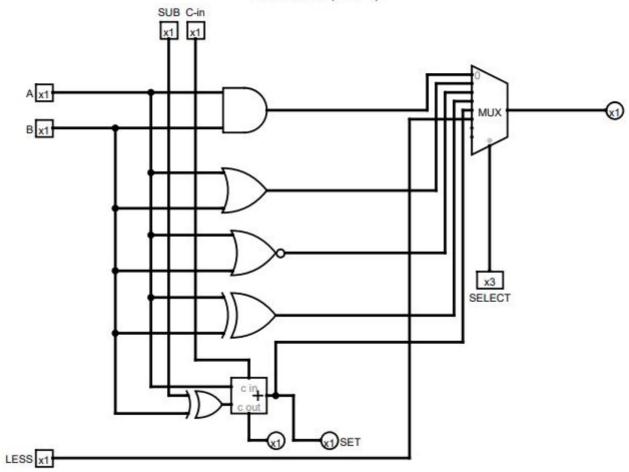
Stp7. Add a result per los the Mux

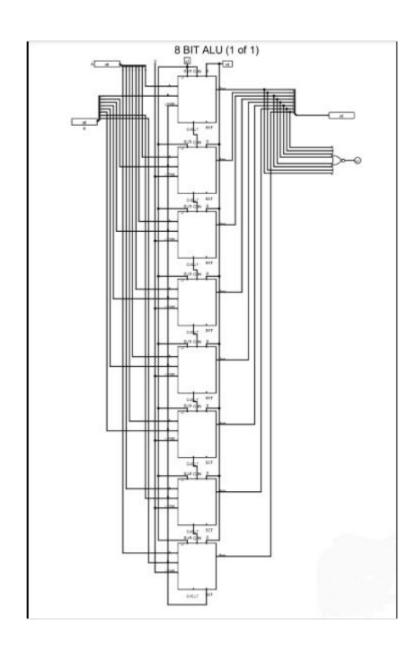
We handled the zeroes coming from MUX, but we also

need to account los valid combination inputs from

P. B and the Control Inputs

1 BIT ALU (1 of 1)





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Lab 6

Step1 FUD FAM

Select a seperale load and store operation for PAM

Skpr. Add Counter Connect Country, Clock and Controlled Bullow to the RAM

Stop 3. Add TTY To Jisplay the dala.

Step 4. Add Rundom Gerryator

To generate dilloral address location Add input and another controlled Buller to the Pundom Gerralor.

Slop 5: Add Bullon

Connel Bullon to Count.

