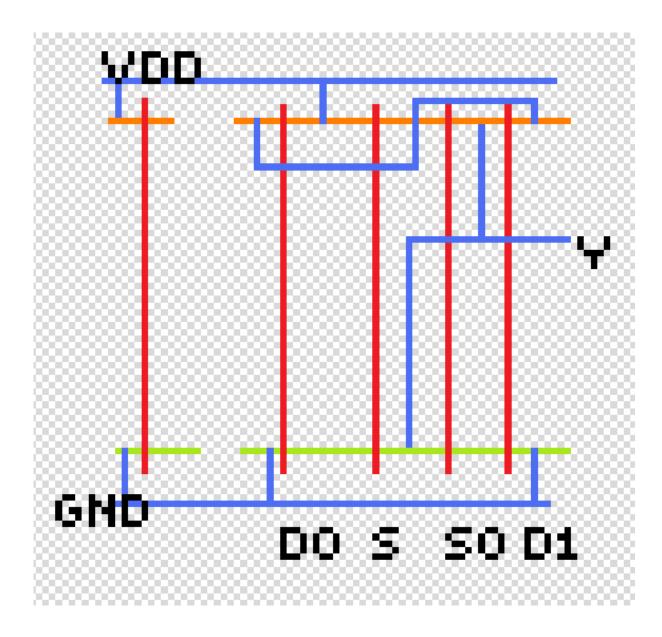
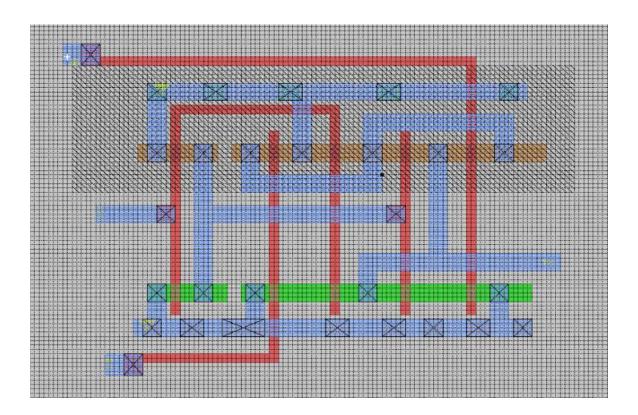
# Gebze Technical University Computer Engineering Departman

## CSE 436 Digital Integrated Circuit Homework #3

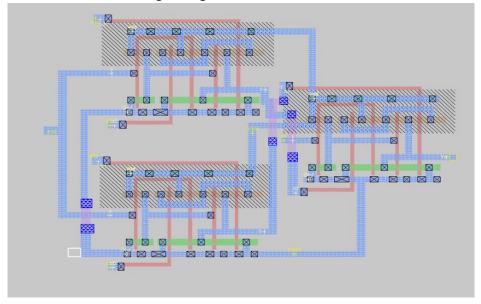
Berkan AKIN 171044073 ❖ Below is the 2x1 stick diagram design.



❖ Below is the 2x1 mux magic design.



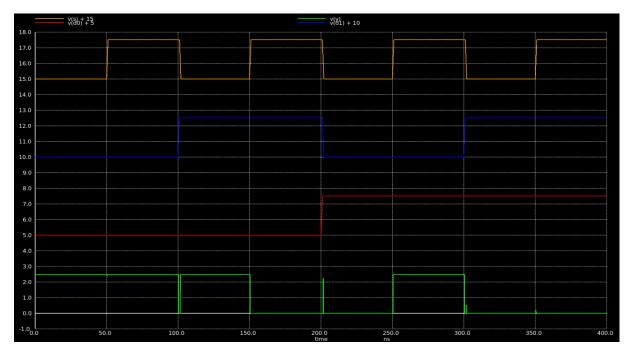
Below is the 4x1 mux magic design.



## 2x1 Mux Text Case

S = orange Y = Green D0 = red D1 = Blue

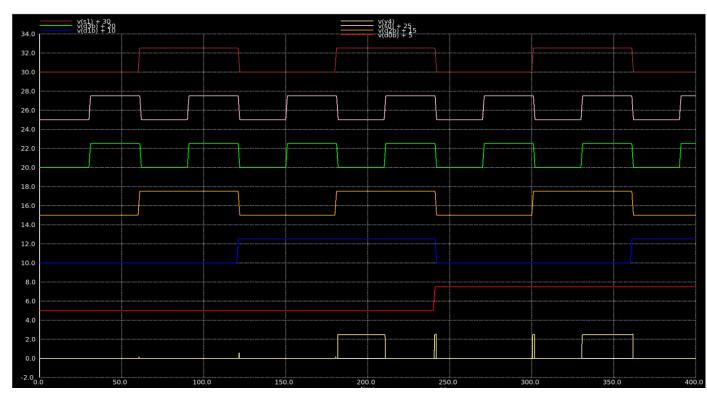
All expected results for the 2x1 multiplexer have turned out correctly.



## **Spice File**

❖ There was an error in the combination for the 4x1 multiplexer; the expected results couldn't be obtained. Below are the combined forms of the 2x1 multiplexers and the test results.

S1 = Dark Red S0 = purple d3b = green d2b = orange d1 = blue d0 = red y = yellow



## **Spice File**