CS 315.02 Components and Sequential Logic

Labor Solutions

Project 05

a, a. b. b.

f. ro fi, fi, a ($\bar{a}_1 \cdot \bar{a}_0 \cdot \bar{b}_1 \cdot \bar{b}_1$) $(0 \ 0 \ 0 \ 0)$ $(\bar{a}_1 \cdot \bar{a}_0 \cdot \bar{b}_1 \cdot \bar{b}_1)$ $(\bar{a}_1 \cdot \bar{a}_0 \cdot \bar{b}_1 \cdot \bar{b}_1)$

+ (= 1. ao · 6,· 6.) ~ (a.a. · 6,· 6.) 1 = 1, 0 0

Project of

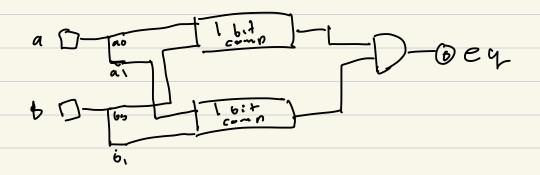
Combinational Logic

Comparator is a == b?

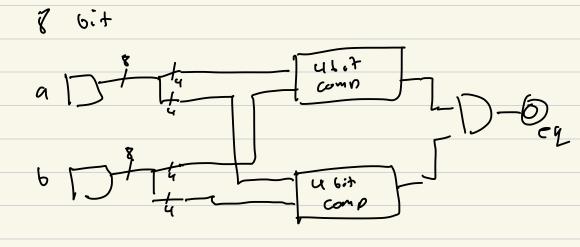
1 bit comparator

| | - • | | | | |
|---|-----|----|----|-----|-----|
| ٨ | 6 | eq | 00 | Xor | XNO |
| 0 | 0 | ţ | 6 | 0 | 1 |
| 0 | 1 | 0 | 1 | 1 | 0 |
| , | 0 | ō | 1 | l | 0 |
| (| ١ |) | (| 0 | , |
| | | | | | · |

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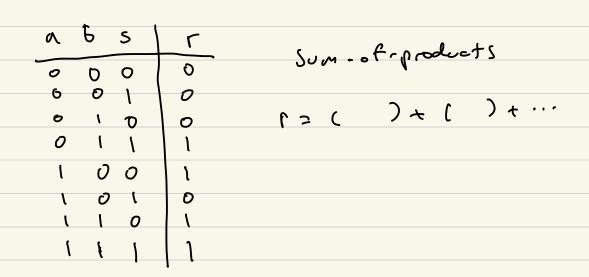


N lit comparenter



Multiplexoc (MUX) 1 bit Zinput MUX ALV 6464

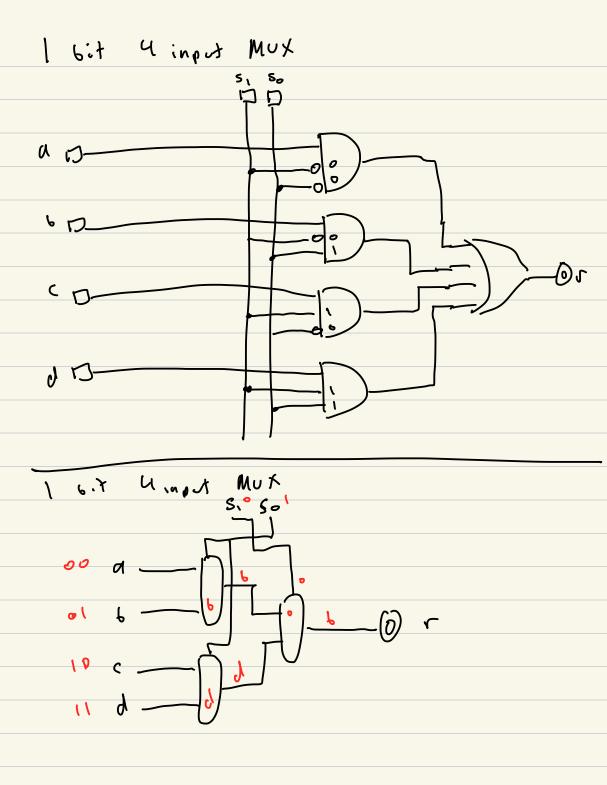
1 b.t 2 input MUX

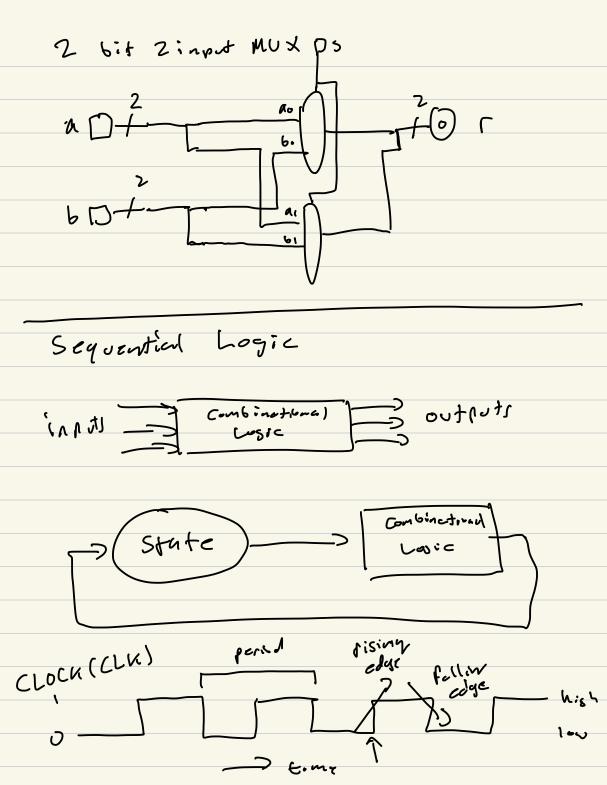


Direct implementation

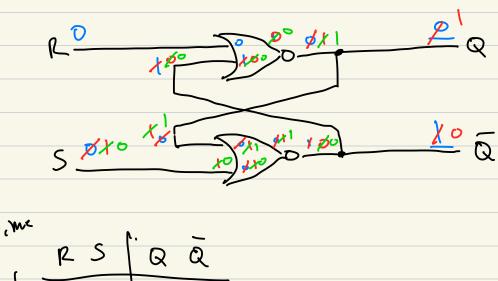
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DAG Mow do we store a 1 b.7 relue? set /reset



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