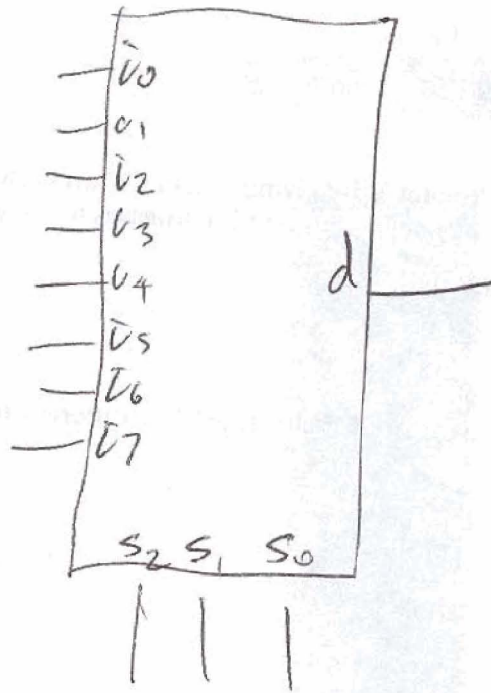
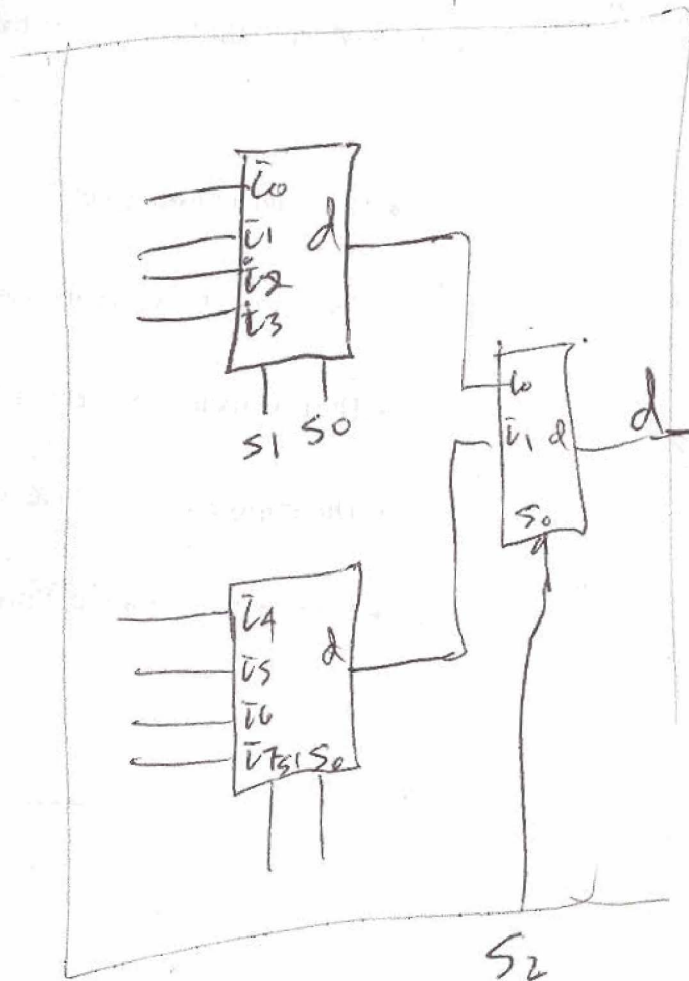


ECGR 2181 - 9/29/08 NOTES ①

8x1 MUX



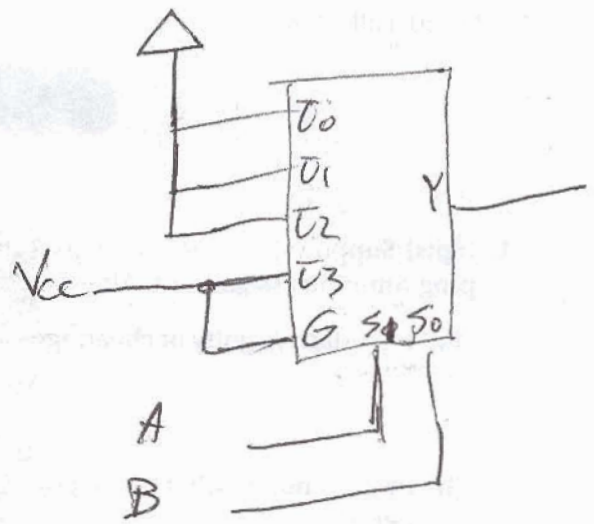
s_2	s_1	s_0	d
0	0	0	i_0
0	0	1	i_1
0	1	0	i_2
0	1	1	i_3
1	0	0	i_4
1	0	1	i_5
1	1	0	i_6
1	1	1	i_7



ECGR 2181 - 9/24/08 NOTES
"AND"

(2)

G_0, S_1, S_0	Y	AND	OR
1 0 0	\bar{v}_0	0	0
1 0 1	\bar{v}_1	0	1
1 1 0	\bar{v}_2	0	1
1 1 1	\bar{v}_3	1	1
0 XY	0	0	0



$$F(a,b,c) = a'b'c' + \cancel{a'bc} + a'bc' + \cancel{a'bc} + \cancel{abc'} + ab'c + abc' + abc$$

abc	#	F_{NEW}	Minterm
000	1	1	0
001	1	0	
010	1	1	2
011	1	0	
100	1	0	
101	1	1	5
110	1	1	6
111	1	1	7

$$\Sigma_m(0, 2, 5, 6, 7)$$