

ECGR 2181 - Extra Notes - 10/28/09

①

a	b	c	F
0	0	0	0
0	0	1	1
0	1	0	0
0	1	1	1
1	0	0	0
1	0	1	0
1	1	0	0
1	1	1	1

$$F = ((\text{not}(a) \text{ and } (\text{not}(b)) \text{ and } c) \text{ or } (\text{not}(a) \text{ and } b \text{ and } c) \text{ or } (a \text{ and } b \text{ and } c));$$

Make a 2x1 mux? (slide 15)

Case sel is

sel (3 down to 0)

when "000" =>
 $y \leq i0;$

⋮

when "1000" =>
 $y \leq i8;$

when others =>
 $y \leq '0';$

end case;