

9.10 Find the hazard free implementation

$$f(x_1, x_2, x_3, x_4) = \sum m(0, 4, 11, 13, 15) + D(2, 3, 5, 10)$$

$x_1 x_2$	$x_3 x_4$	00	01	11	10
00	1	1			
01		d	1		
11	d		1	1	
10	d				d

9.11 $x_1 = 0$

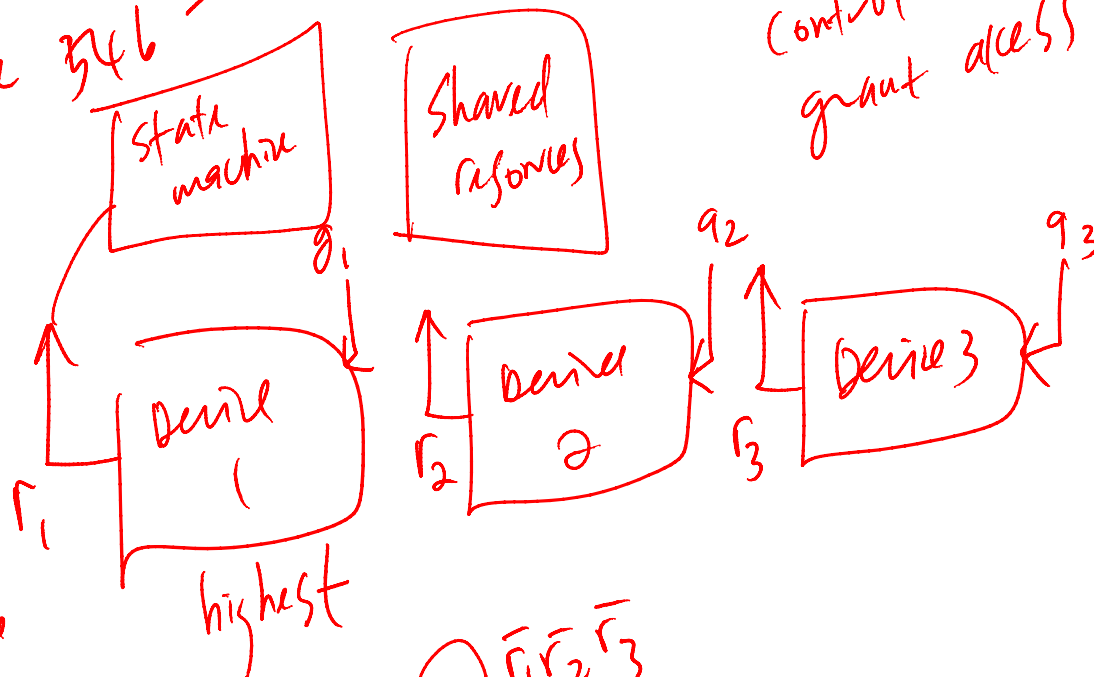
$x_2 x_3$	$x_4 x_5$	00	01	11	10
00	1	1			d
01		1	d		
11			d	1	
10					

$x_1 = 1$

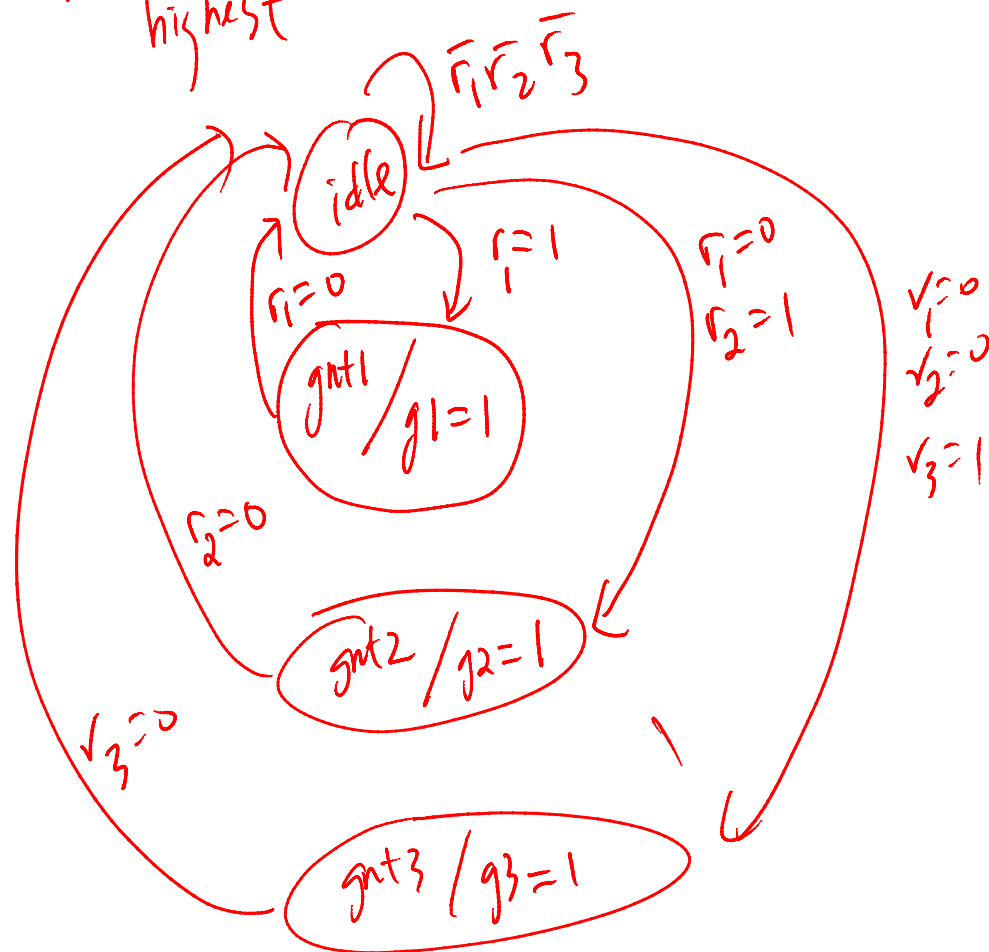
$x_2 x_3$	$x_4 x_5$	00	01	11	10
00	1	1			1
01		1	1	1	1
11					
10					

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Arbiter to
control and
grant access



Moore
state machine



Coen eval.
boise state. ed 98%
Completion
rate