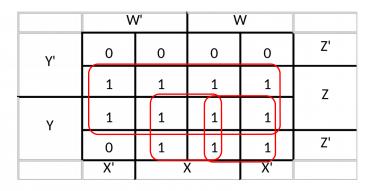
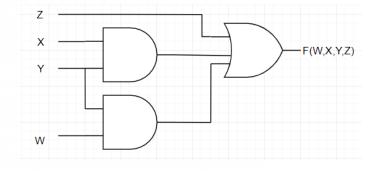
ECE 337 Lab 1 David Dang

8.1 Sensor Detector

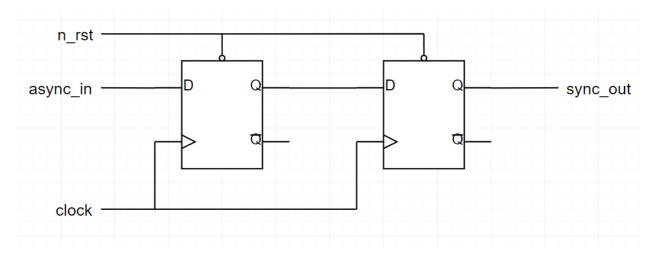
input 4	input 3	input 2	input 1 (high priority)	output
0	0	0	0	0
0	0	0	1	1
0	0	1	0	0
0	0	1	1	1
0	1	0	0	0
0	1	0	1	1
0	1	1	0	1
0	1	1	1	1
1	0	0	0	0
1	0	0	1	1
1	0	1	0	1
1	0	1	1	1
1	1	0	0	0
1	1	0	1	1
1	1	1	0	1
1	1	1	1	1



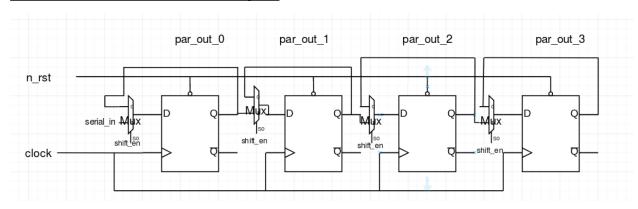
F(W,X,Y,Z) = Z + XY + YW



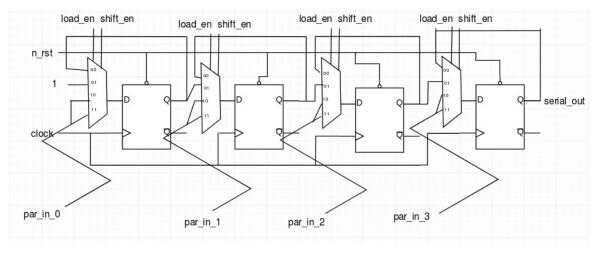
8.2.1 Synchronizer



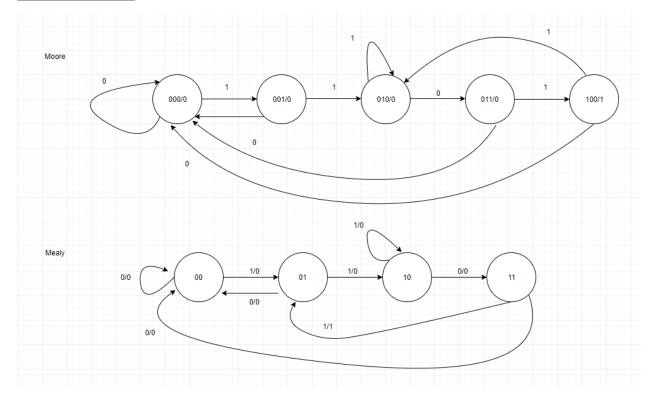
8.2.2 MSB First Serial to Parallel Shift Register



8.2.3 MSB First Parallel to Serial Shift Register



8.3 "1101" detector



The mealy model has one less state because the output of a mealy machine is a function of the present state and present inputs while the moore model output us a function of present state only.