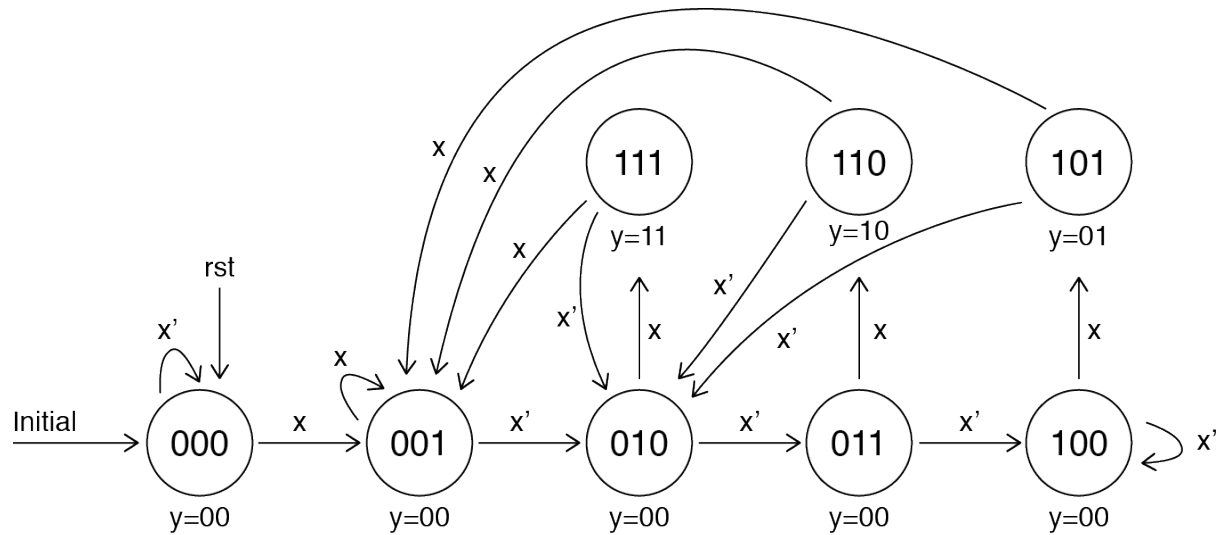


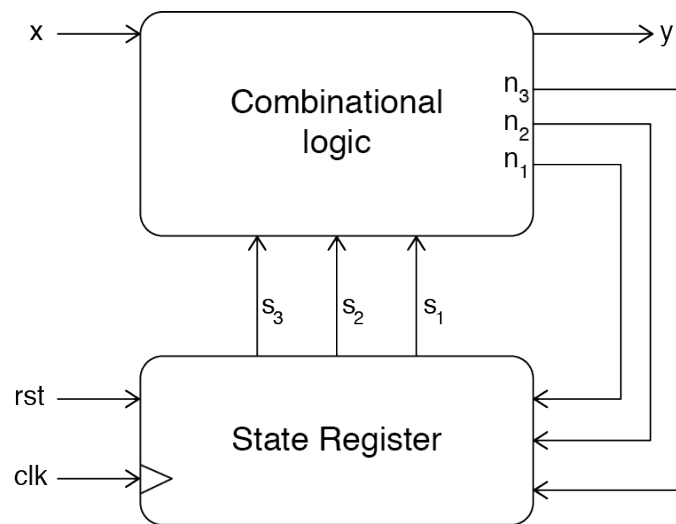
Student Names: Ergün ERDOĞMUŞ, Mustafa Enes ÇAKIR
 Student IDs: 2014400006, 2013400105
 Group ID: 2
 Session: 2

CMPE 240 Experiment 3 Preliminary Work

Finite State Machine



Architecture



Student Names: Ergün ERDOĞMUŞ, Mustafa Enes ÇAKIR
Student IDs: 2014400006, 2013400105
Group ID: 2
Session: 2

State Encodings

State Names	State Encodings
S(0)	000
S(1)	001
S(2)	010
S(3)	011
S(4)	100
S(5)	101
S(6)	110
S(7)	111

State Transition Table

Current State	External Input	Next State	External Output
000	0	000	00
000	1	001	00
001	0	010	00
001	1	001	00
010	0	011	00
010	1	111	00
011	0	100	00
011	1	110	00
100	0	100	00
100	1	101	00
101	0	010	01
101	1	001	01
110	0	010	10
110	1	001	10
111	0	010	11
111	1	001	11

Student Names: Ergün ERDOĞMUŞ, Mustafa Enes ÇAKIR
Student IDs: 2014400006, 2013400105
Group ID: 2
Session: 2

Combinational Logic

