

# Boolean Expressions

Dash  
Newburn

$S_1^+$

$S_0 T$

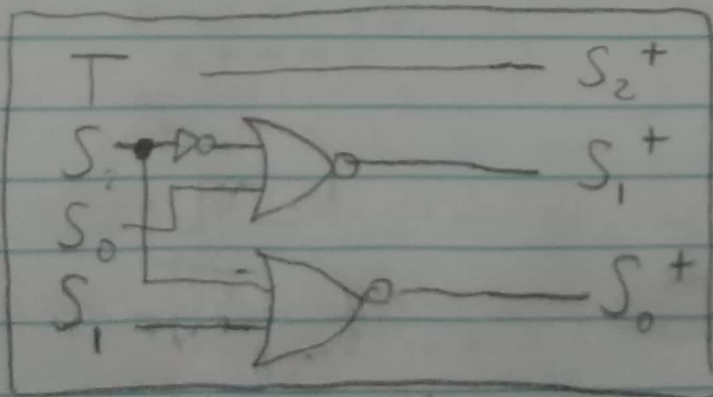
	00	01	11	10
00	0	0	0	0
$S_2 S_1$ 01	0	0	0	0
11	1	1	0	0
10	1	1	0	0

$$S_1^+ = S_2 S_0' = (S_2' + S_0)'$$

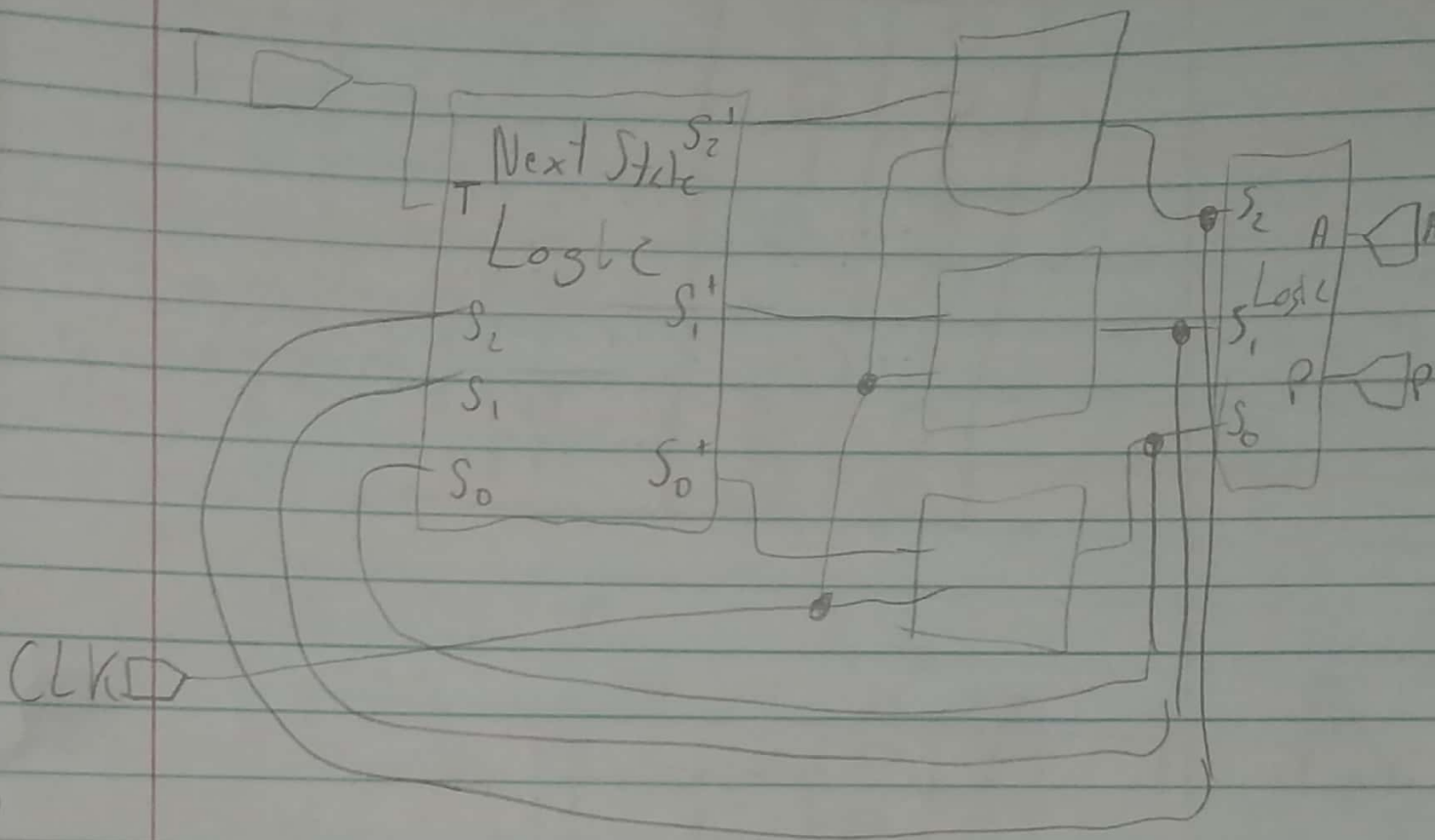
$$S_0^+$$

	$S_0$	$T$		
	00	01	11	10
00	1	1	1	1
$S_2 S_1$ 01	0	0	0	0
11	0	0	0	0
10	0	0	0	0

$$S_0^+ = S_2' S_1' = (S_2 + S_1)'$$



Next State Logic



Next State Logic

$S_2, S_1, S_0$	T	$S_2^+, S_1^+, S_0^+$
000	0	001
001	0	001
010	0	000
011	0	000
100	0	010
101	0	000
110	0	010
111	0	000
000	1	101
001	1	101
010	1	100
011	1	100
100	1	110
101	1	100
110	1	110
111	1	100

$$S_2^+ = T$$

Applications Places System Software Modules

Quartus II 64-Bit - /home/newburn2/ECSE120Labs/lab7/lab7 - lab7

File Edit View Project Assignments Processing Tools Window Help

lab7 lab7.bdf Compilation Report lab7

Project Navigator

Entity

Cyclone V: 5C10K10-1

lab7

Tasks

Flow: C Customiz...

Find: Find Next

Messages

System (14) Processing (113)

IP Catalog

Installed IP

Project Directory

No Selection Available

Library

- Basic Functions
- Block
- DSP
- Interface Protocols
- Low Power
- Memory Interfaces and Controllers
- Processors and Peripherals
- University Program

Search for Partner IP

400 35 1000 00:01:00

