

ECE 3300L

California State Polytechnic University, Pomona

Group G

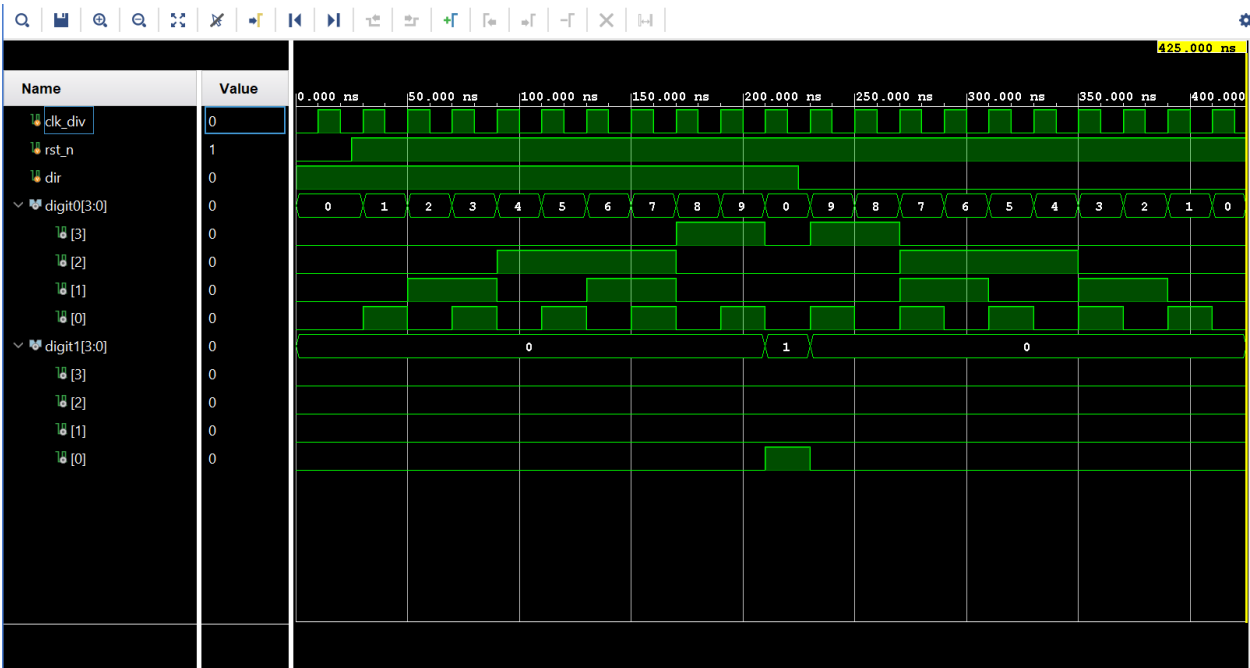
Nathaniel Garcia and Mikael Parsmyan

Lab Report #4

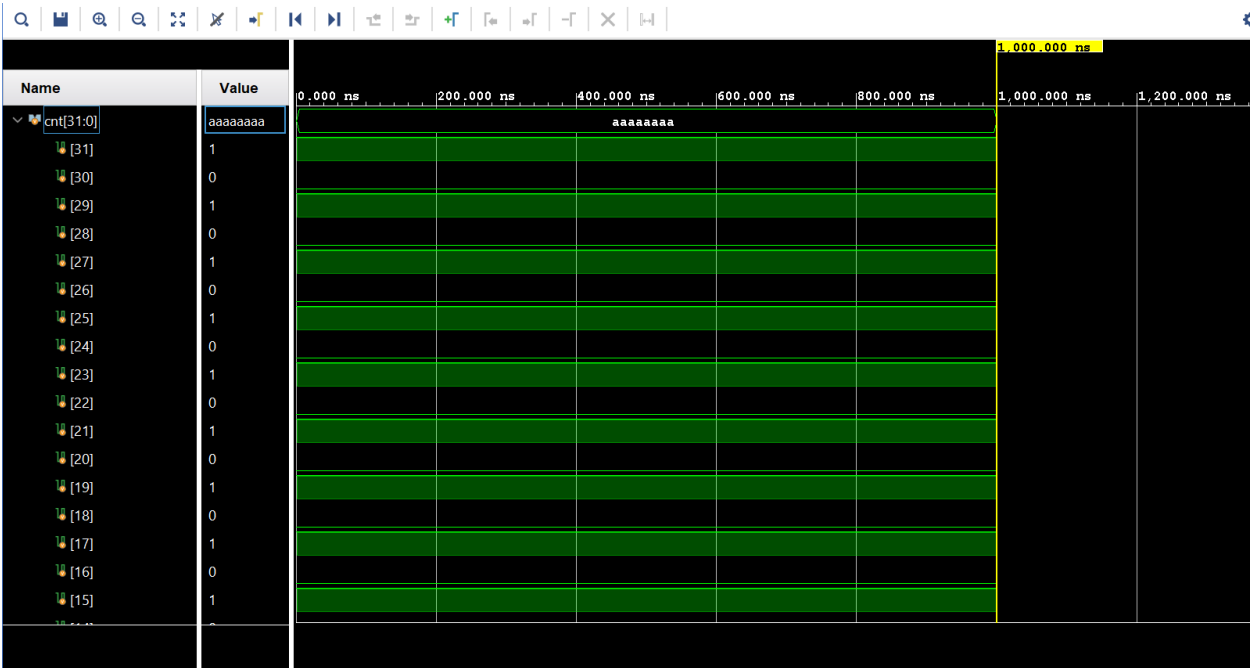
07/10/2025

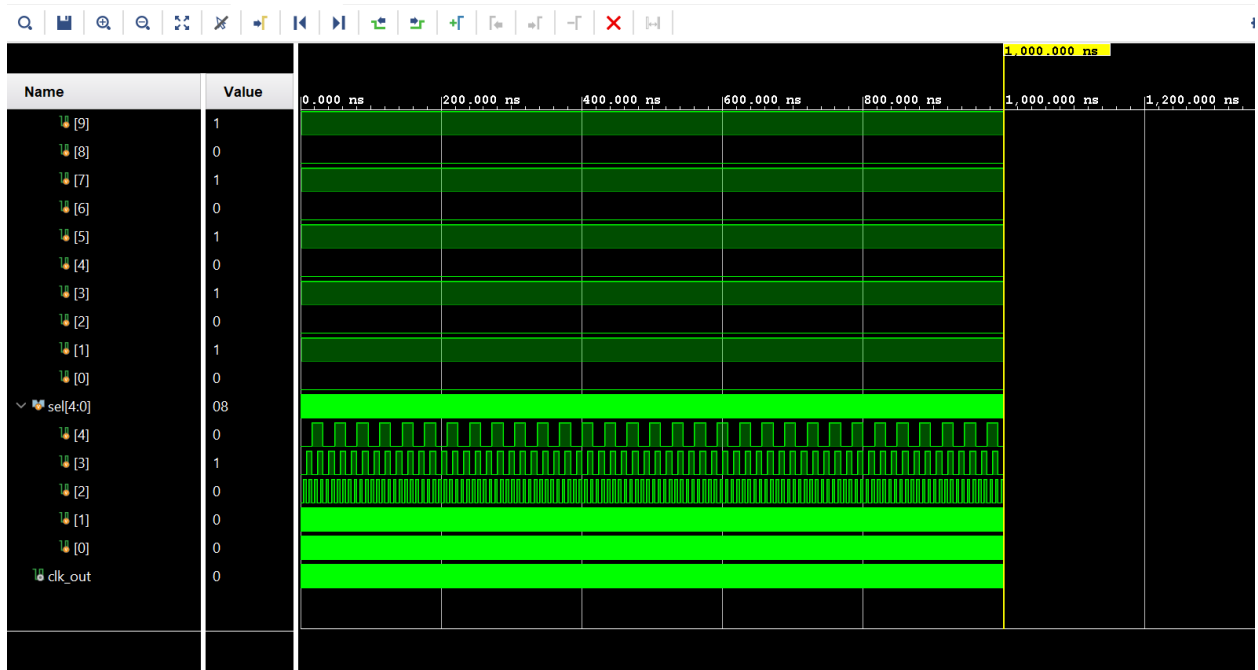
Top_Lab5:

BCD_up_down_counter:

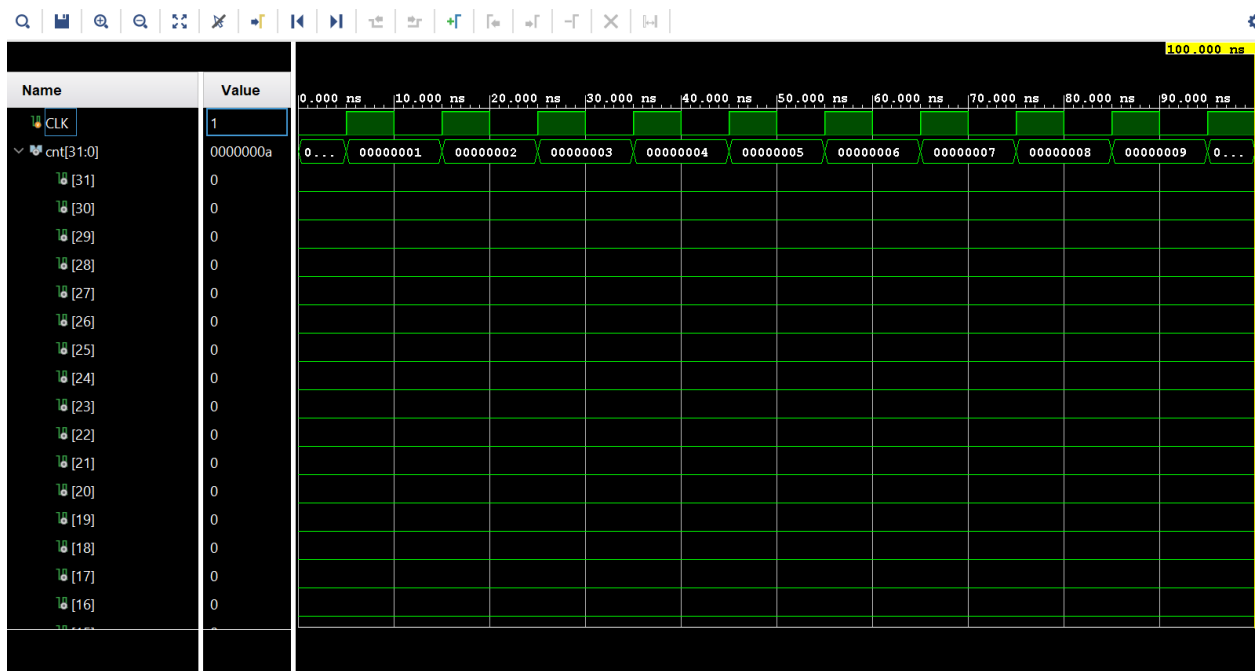


Mux32x1:



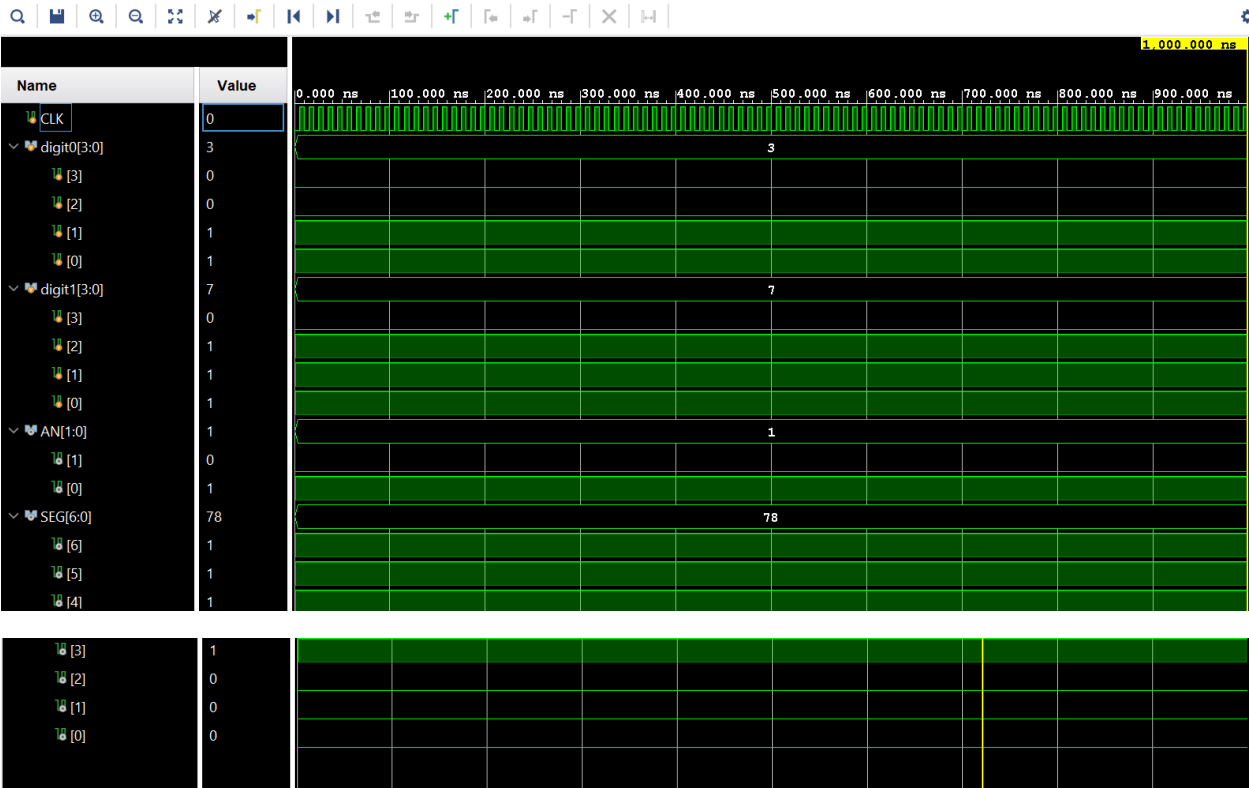


Clock_divider:





Seg7_scan:

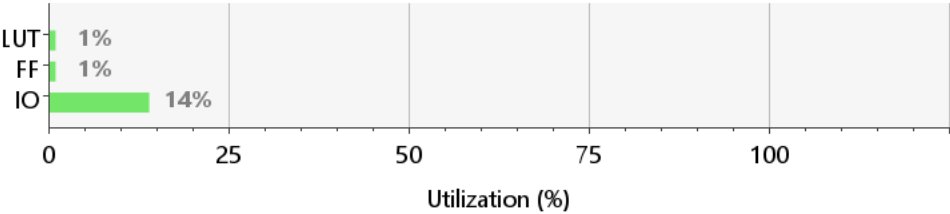


Hardware Results:

Name	1	Slice LUTs (63400)	Slice Registers (126800)	F7 Muxes (31700)	Slice (15850)	LUT as Logic (63400)	Bonded IOB (210)	BUFGCTRL (32)
▼ N top_lab5		26	59	4	24	26	30	1
I counter (bcd_up_down_counter)		14	8	0	6	14	0	0
I display (seg7_scan)		2	18	0	6	2	0	0
I div (clock_divider)		10	32	4	12	10	0	0

Summary

Resource	Utilization	Available	Utilization %
LUT	26	63400	0.04
FF	59	126800	0.05
IO	30	210	14.29



Contributions:

Both worked on the report

Nathaniel: Testbench files, Xdc files and Demo

Mikael: Source files, simulation testing