



Department of Electrical and Computer Engineering

ECE 3300L Section 1

Lab 8 – RGB LED PWM Controller

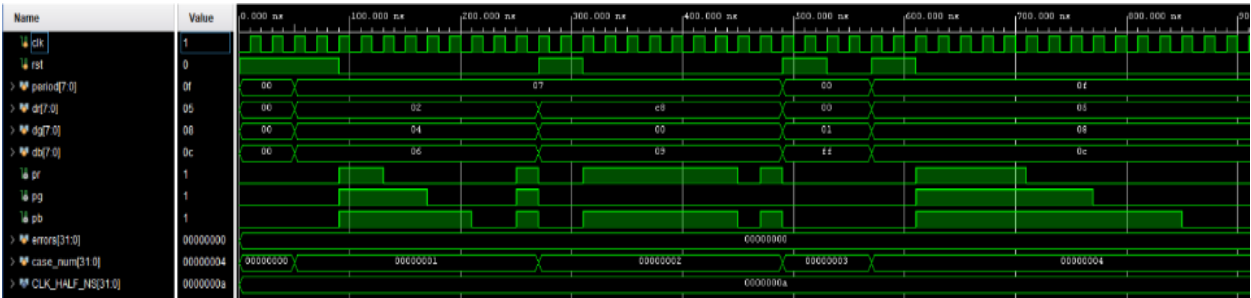
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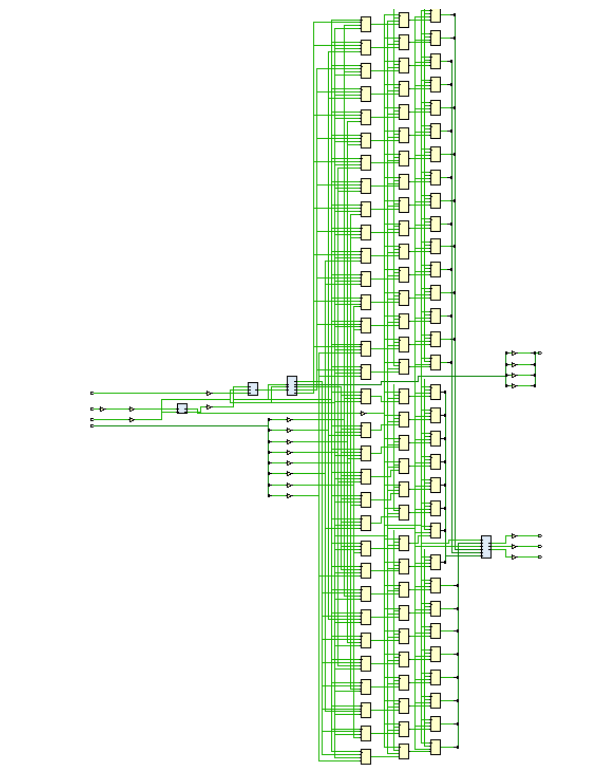
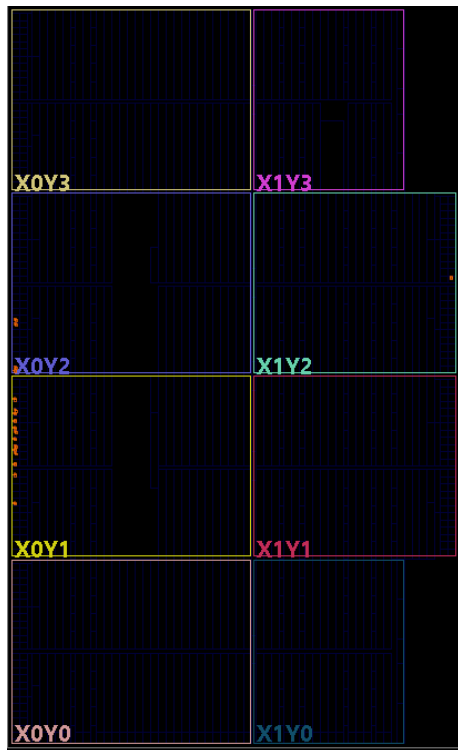
August 14, 2025

Design:

Testbench:



Simulation:



Implementation:

Setup	Hold	Pulse Width
Worst Negative Slack (WNS): 6.517 ns	Worst Hold Slack (WHS): 0.237 ns	Worst Pulse Width Slack (WPWS): 4.500 ns
Total Negative Slack (TNS): 0.000 ns	Total Hold Slack (THS): 0.000 ns	Total Pulse Width Negative Slack (TPWS): 0.000 ns
Number of Failing Endpoints: 0	Number of Failing Endpoints: 0	Number of Failing Endpoints: 0
Total Number of Endpoints: 32	Total Number of Endpoints: 32	Total Number of Endpoints: 33

All user specified timing constraints are met.

Contributions:

Bryan Liu: Code and Testbenching: 50%

Jaden Yermenko: Synthesis and Testing: 50%