

ECE 3300L

Lab 9

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Group A

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Objective:

Use PWM to control 2 separate RGB lights. Use a button to select which RGB to change.

Results:



[illegible]

Utilization		Post-Synthesis		Post-Implementation
				Graph Table
Resource	Utilization	Available	Utilization %	
LUT	8	63400	0.01	
FF	8	126800	0.01	
IO	21	210	10.00	
BUFG	2	32	6.25	
PLL	1	6	16.67	

Figure 2 - Utilization

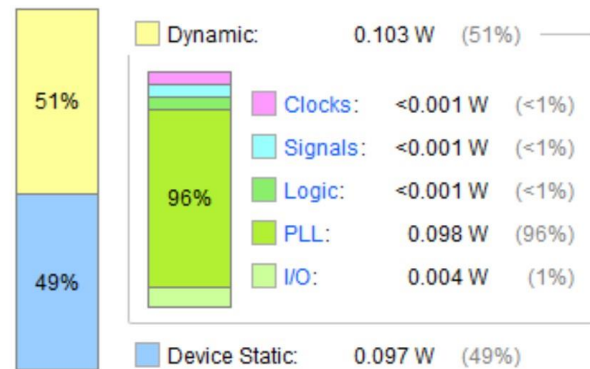
Summary

Power analysis from Implemented netlist. Activity derived from constraints files, simulation files or vectorless analysis.

Total On-Chip Power: 0.2 W
Design Power Budget: Not Specified
Power Budget Margin: N/A
Junction Temperature: 25.9°C
Thermal Margin: 59.1°C (12.8 W)
Effective θ_{JA} : 4.6°C/W
Power supplied to off-chip devices: 0 W
Confidence level: Low

[Launch Power Constraint Advisor](#) to find and fix invalid switching activity

On-Chip Power



Conclusion:

We learned about the PWM and how to implement it using it to control two different RGB LEDs.