# Lab 3

# **ECE 3300 LAB**

# SECTION 02

Instructor: Mohamed Aly

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# Group I

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### **Abstract**

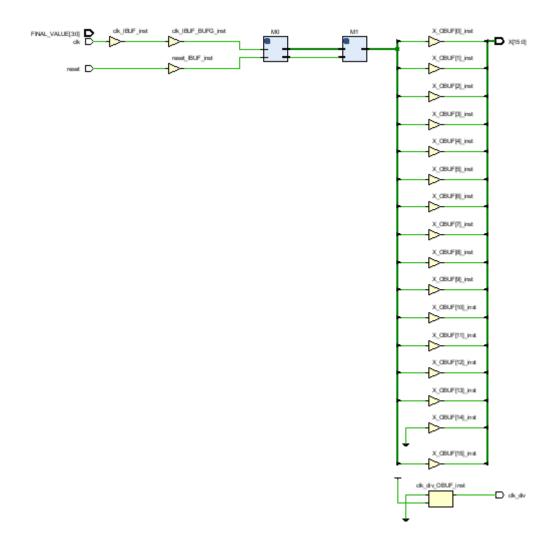
Purpose of the experiment was to create a variable clock divider on the Arty 7 FPGA board. Task was to create 4x16 decoder by instantiation. One button would be used to reset the clock speed. Decoder was created using structural modeling. From there, the high frequencies would make the LED flash at a fast paced while low frequencies would be slower.

## **Theory: Sketch of Design**

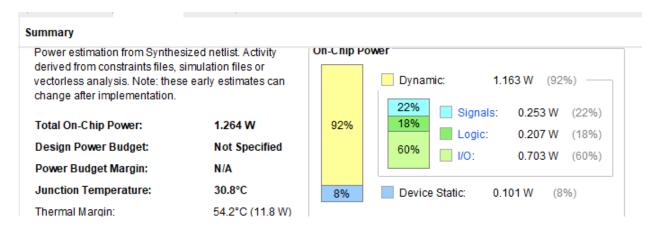


### **Area/Resources Information**

Elaborated Design



## **Power Usage**



**Post-Implementation Resource Utilization** 

Name	Constraints	Status	WNS	TNS	WHS	THS	TPWS	Total Power	Failed Routes	LUT	FF	BRAM
✓ ✓ synth_1	constrs_1	synth_design Complete!								11	4	0.0
✓ impl	_1 constrs_1	write_bitstream Complete!	NA	NA	NA	NA	NA	1.161	0	11	4	0.0