Lab 5

ECE 3300 LAB

SECTION 02

Instructor: Mohamed Aly

October 11, 2021

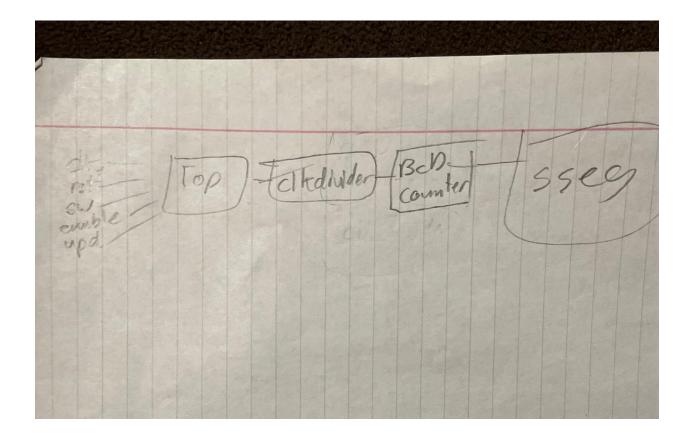
Group I

Name	Bronco ID	Email
Jose Soto-Covarrubias	013778700	jls1@cpp.edu
Shreyas Surana	013790140	ssurana@cpp.edu

Abstract

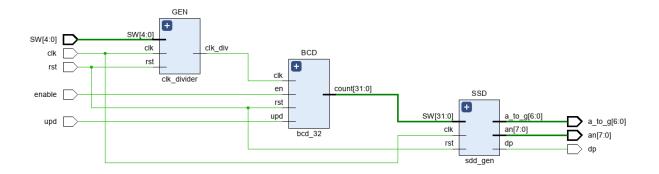
Purpose of the experiment was to reuse seven segment display code from previous lab, implementing a up/down BCD counter, and fixing errors in the codes that were provided. Task was to identify corner cases and creating testbenches to debug errors. The first four switches were for the clock speeds while the last two switches were for enable and up/down counter. One button would be used to reset the clock speed. One error that was needed to be fix was the down counter displaying random numbers and not decreasing sequentially. Another error that was shown in the instructions was up/down counter working even though the enable switch is off .From there, the switches would be used to change how quickly the numbers would be displayed.

Theory: Sketch of Design

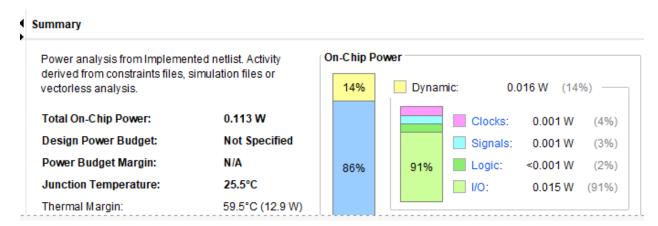


Area/Resources Information

Elaborated Design



Power Usage



Post-Implementation Resource Utilization

