Group 5 lab 4 report

Ashley Björs, Elliot Bodin, Daniel Rytenberg, Jonas Gerne January 2024

1 LUT list

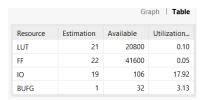


Figure 1: This is the LUT list of step 1

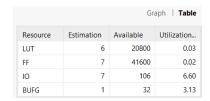


Figure 2: This is the LUT list of step 2



Figure 3: This is the LUT list of step 3

		Gra	aph Table
Resource	Estimation	Available	Utilization
LUT	63	20800	0.30
FF	78	41600	0.19
Ю	12	106	11.32
BUFG	1	32	3.13

Figure 4: This is the LUT list of step 4

2 Waveforms

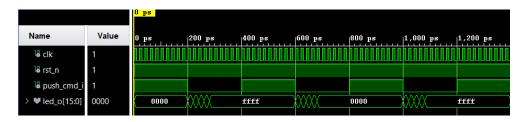


Figure 5: This is the simulation of step 1

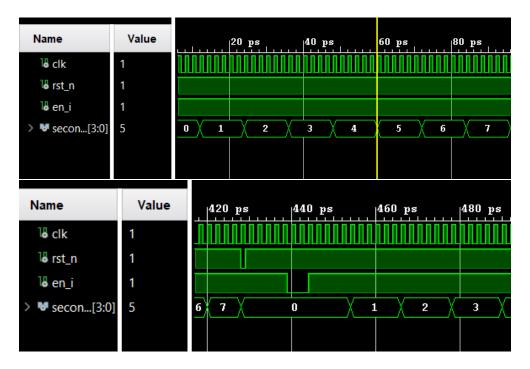


Figure 6: This is the simulation of step 2

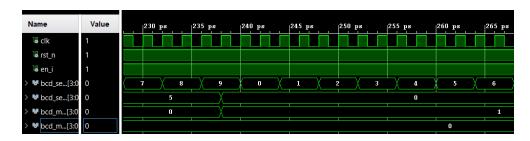


Figure 7: This is the simulation of step 3

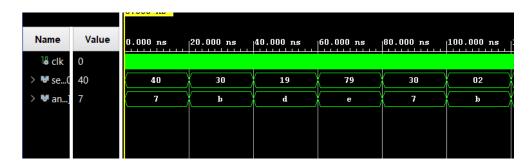


Figure 8: This is the simulation of step 4, clock changes every 1ps so period of 2ps between every Rising edge.