

Lab 7
3300L.E01

16-bit Barrel Shifter / Rotator
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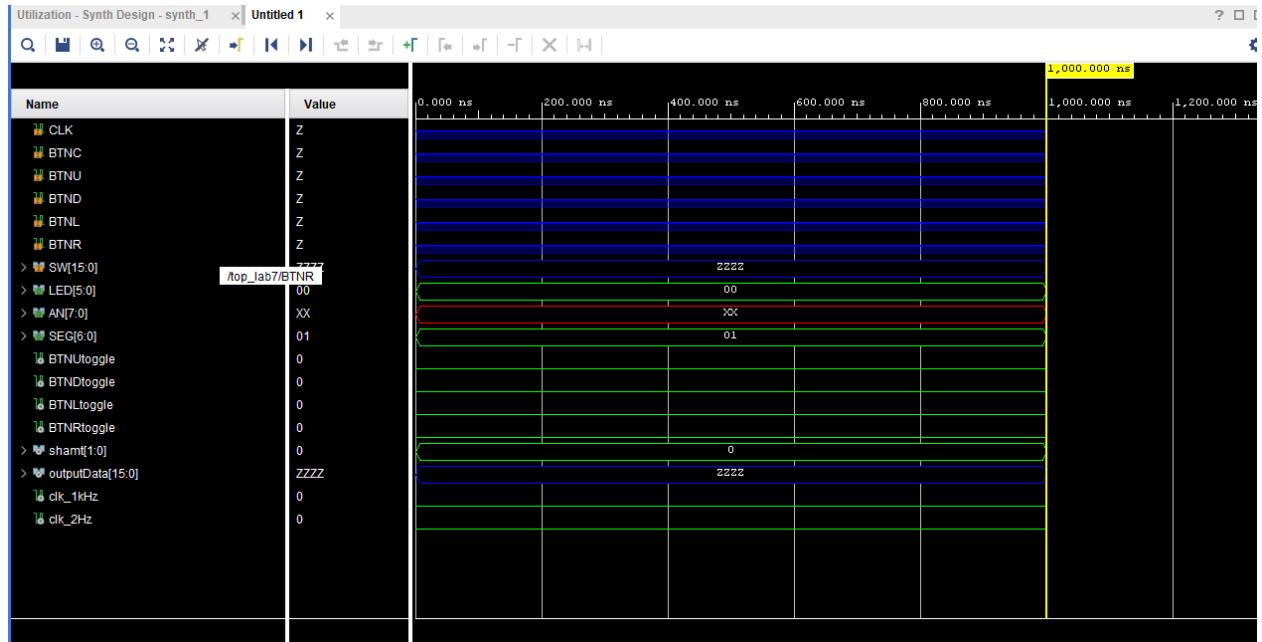
4-Digit 7 Seg Display

Group U
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Lut File:

Site Type	Used	Fixed	Prohibited	Available	Util%
Slice LUTs*	80	0	0	63400	0.13
LUT as Logic	80	0	0	63400	0.13
LUT as Memory	0	0	0	19000	0.00
Slice Registers	88	0	0	126800	0.07
Register as Flip Flop	88	0	0	126800	0.07
Register as Latch	0	0	0	126800	0.00
F7 Muxes	0	0	0	31700	0.00
F8 Muxes	0	0	0	15850	0.00

Simulation:



Contributions:

Nathan Rahbar - 50% (Source files and constraint)

Justin Herrera - 50% (Test Bench and Simulations)

Link:

<https://youtube.com/shorts/YvfPo5dUF28?si=kRtsdCirijX6UWMM>