EE 201: More sequential logic in SystemVerilog

Steven Bell 27 February 2024



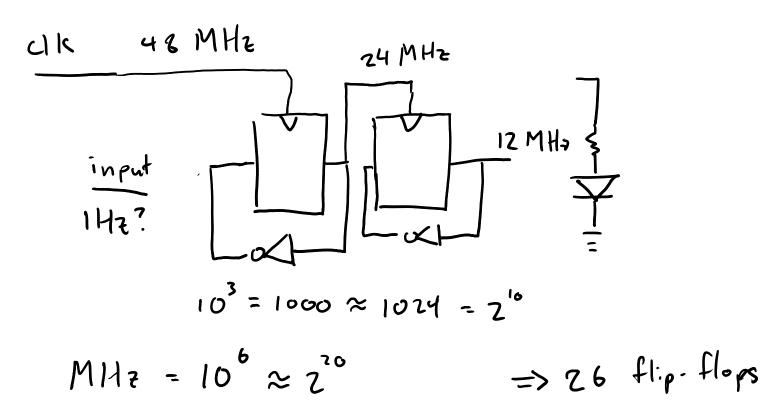
By the end of class today, you should be able to:

- Build a design for an FPGA from HDL to bitstream
- Build slightly more complicated sequential circuits using SystemVerilog

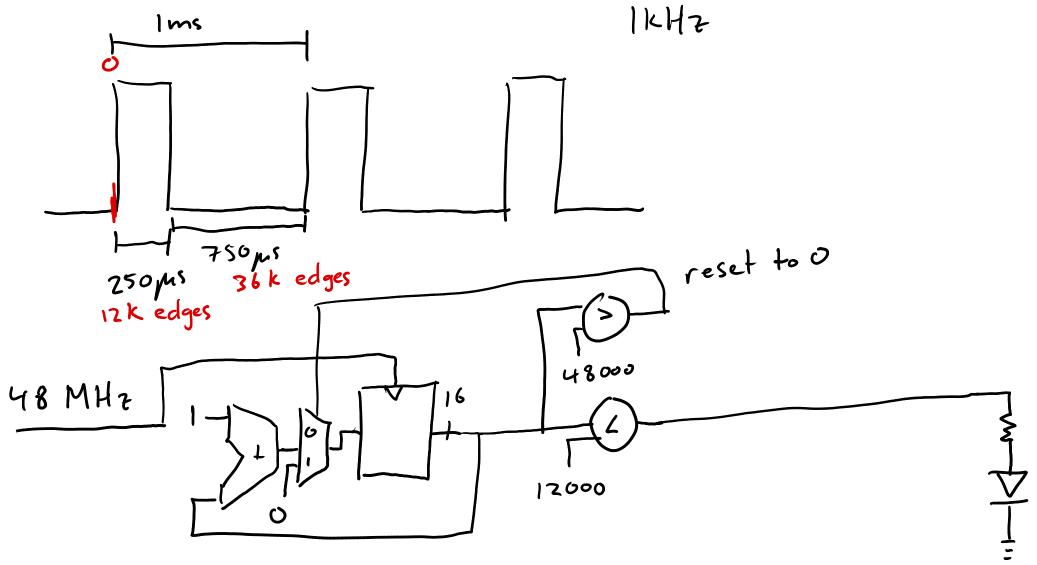
Blinking an LED?

$$\sim 1H_{z}$$

Design a circuit to blink an LED at a rate humans can see. Assume your input clock runs at 48MHz.



PWM controller



Loadable counter

FPGA toolchains

See link on course website

For Thursday

- 1. Read book (3.4, 4.6)
- 2. Complete HW 3 if you haven't