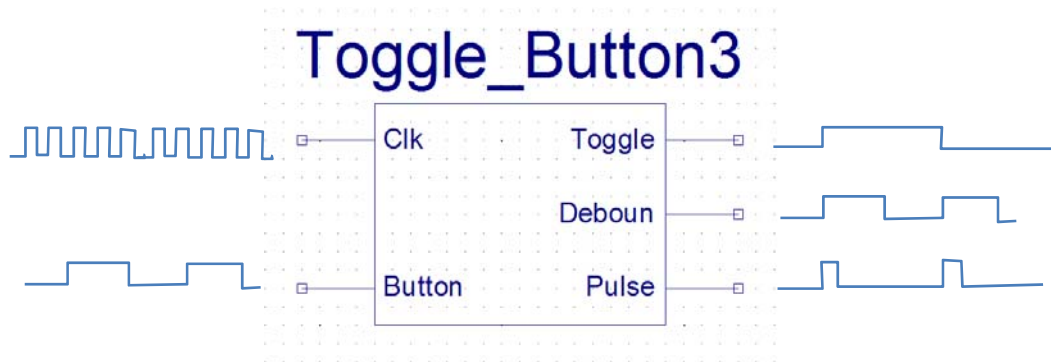


## Problem – Toggle Button

Its often needed to switch an output on/off by a single button or input signal.  
At the same time will it be nice to remove eventually bouncing (prel) and  
to generate a pulse output which only one clock-pulse wide.

Your free to choose which implementation of the State Machine you like to try.



**Clk** – Will be relative high (say 1 kHz to 50 MHz)

**Pulse** – Will be high for one clock pulse each time the Button pressed (0->1 shift)

**Deboun** – Will be the same as Button, but synchrore with the clock

**Toggle** – Will change state 0 to 1 .. 1 to 0 for each press at the Button

