



At the moment when the logical high transitions to low, we will send a signal to the counter indicating that it can now increment its value. This signal is en\_up, and on the next posedge clk, the increment will occur.  
When the button is pressed, the transition from 0 to 1 occurs

At the moment when the logical zero changes to one, we will send a signal to the counter indicating that it is now allowed to decrease its value. This signal is en\_down, and on the next posedge clk, the decrement will occur.  
When the button is released, the transition from 1 to 0 occurs