

Secondly, create the counter controlling the multiplexer. Give the name Cou8.sch for this schematic. Create the counter on the figure below and generate the macro file from it. (The built-in CB4CE counter can also be used.)

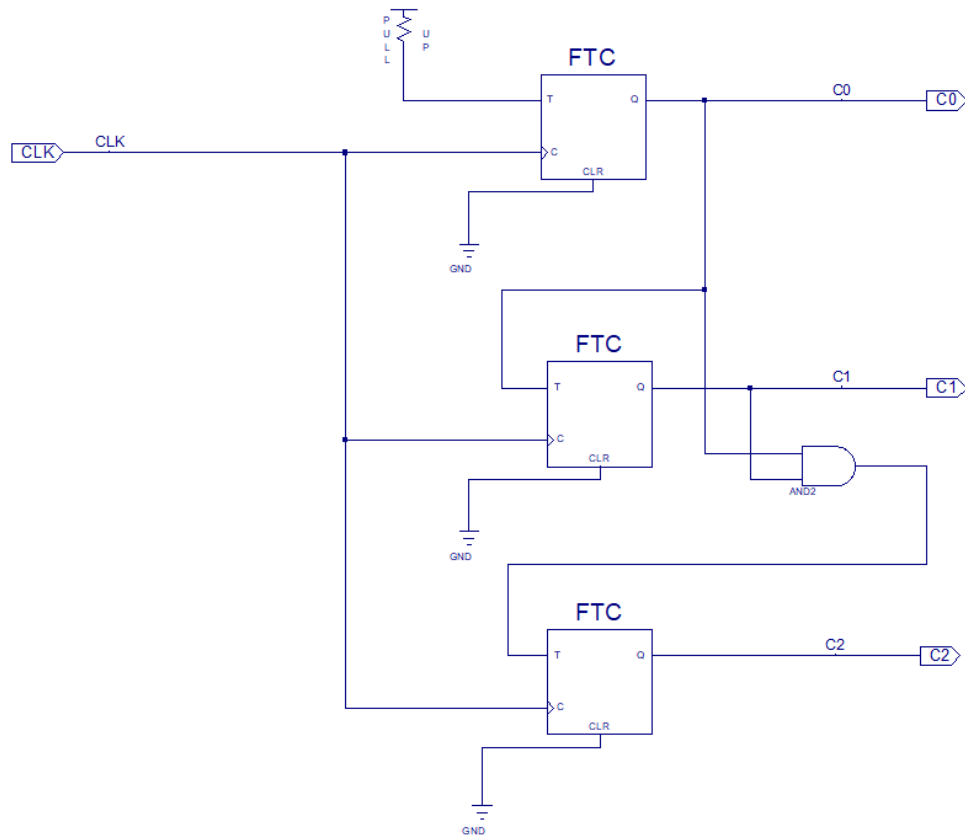


Figure 9. – 3 bit counter (MACRO)

Finally, create the schematic according the figure below:

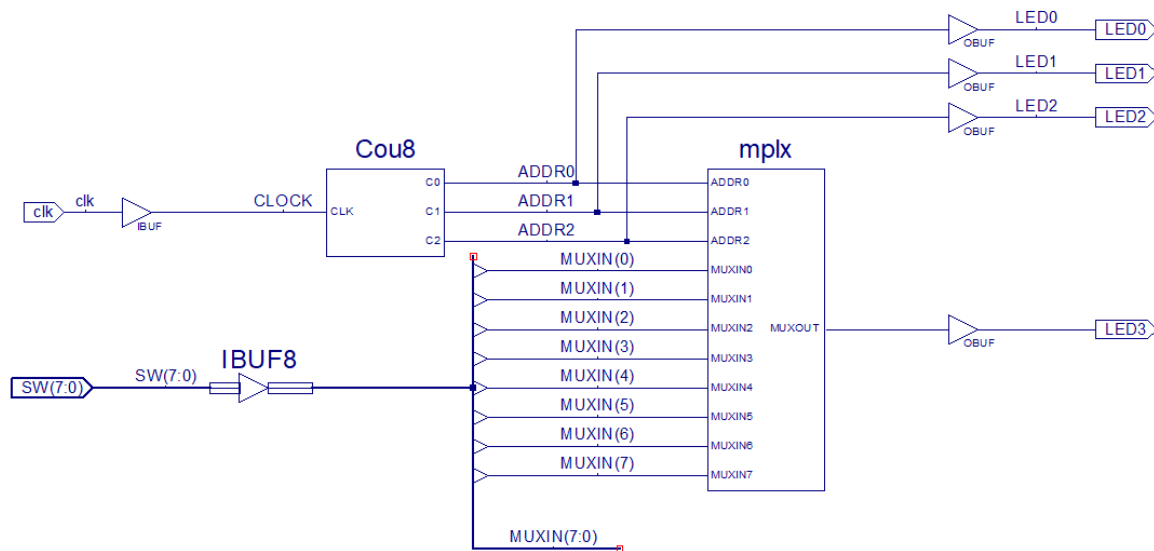


Figure 10. – Multiplexer circuit by using the previous macros

1.1. Testing

Simulate the behavior of the system as on the previous labs. Create an empty testbench and copy the content preented below (it can also be found in the moodle system as a stub file).