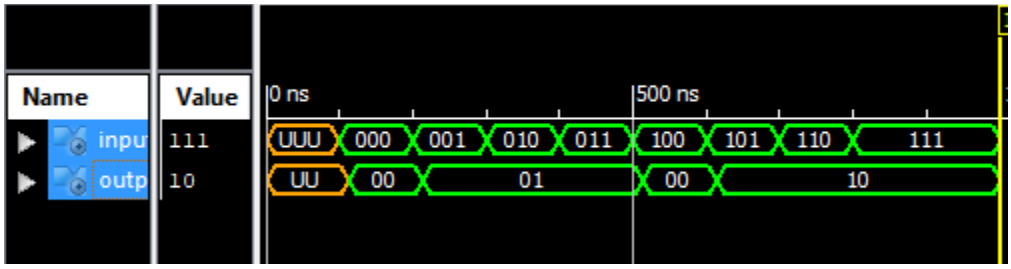
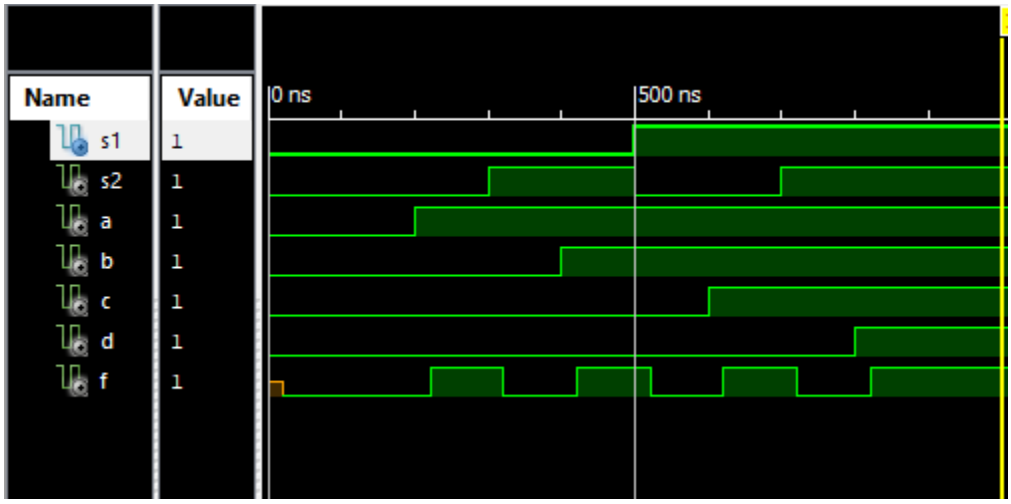
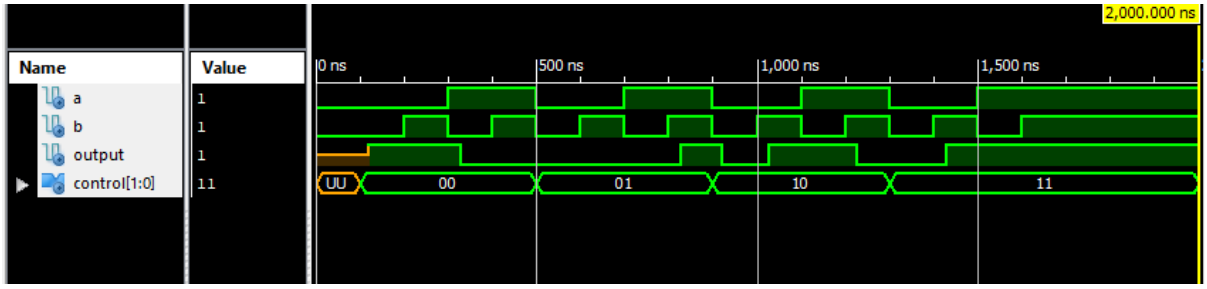
Shift Control Logic



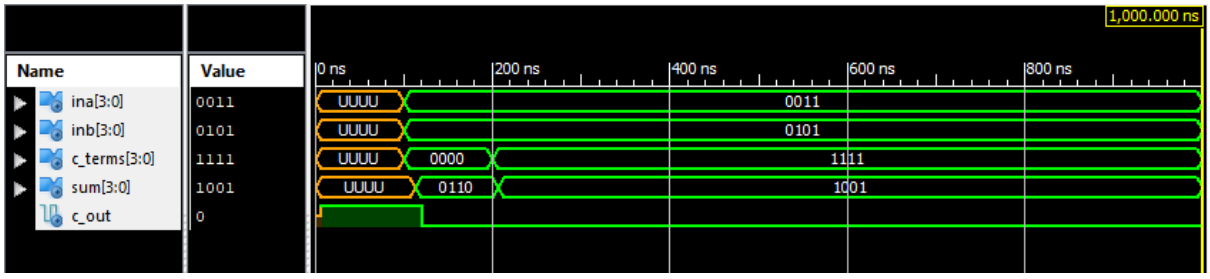
4 input mux



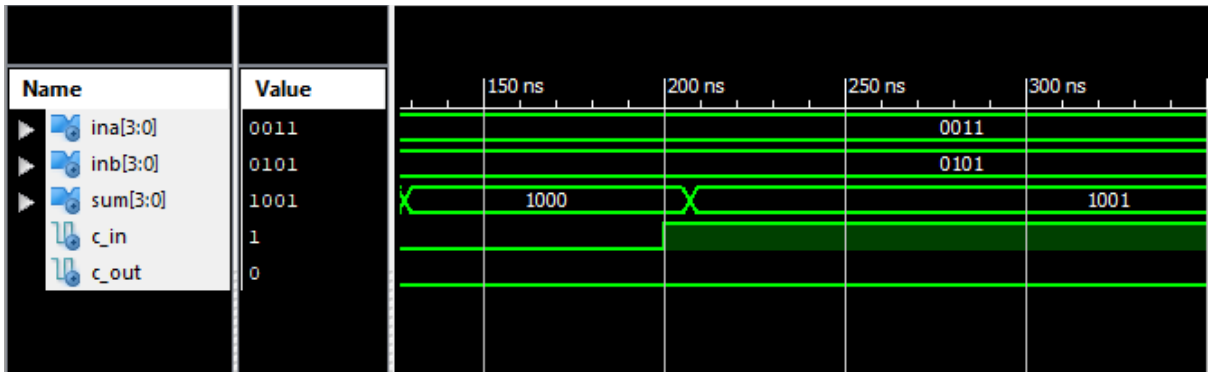
One bit logic slice



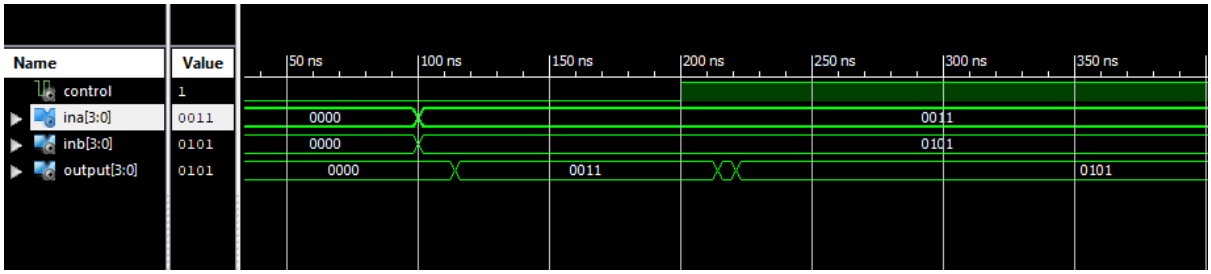
Nbit adder



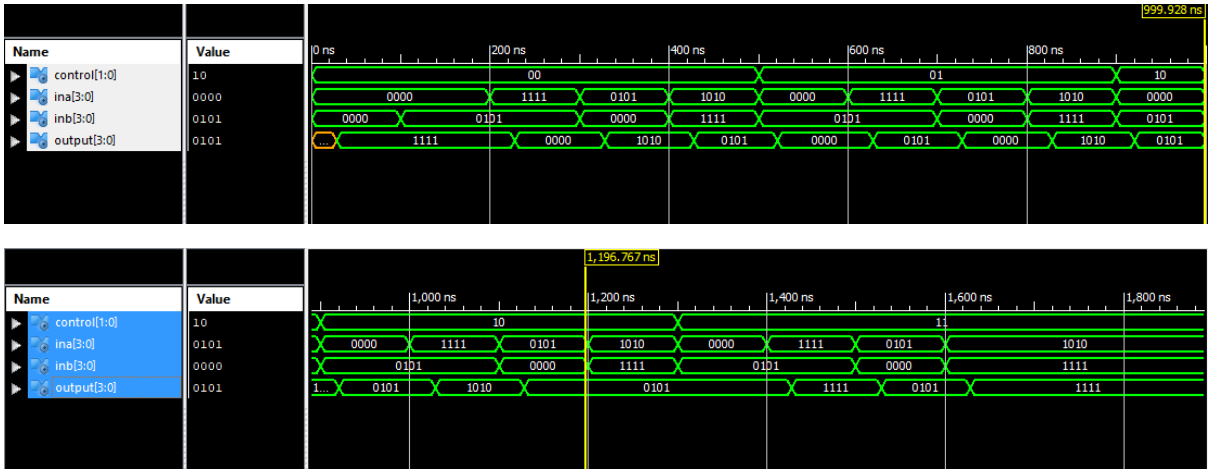
Fourbit lac adder



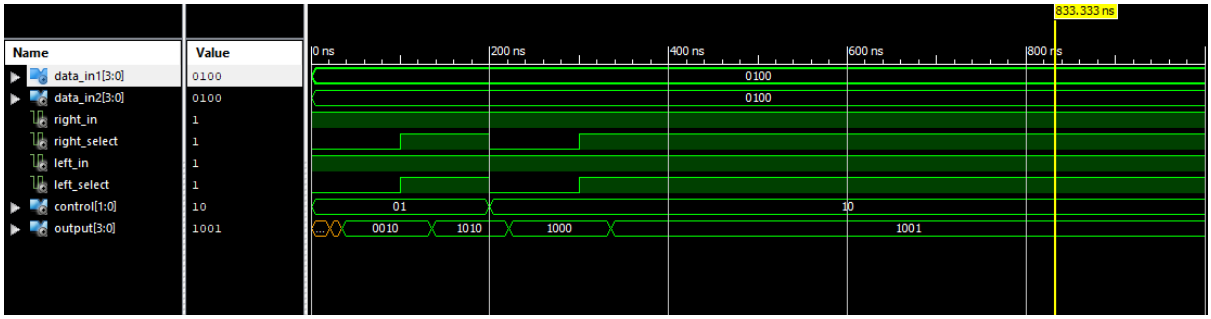
Nbit_two_input multiplexer



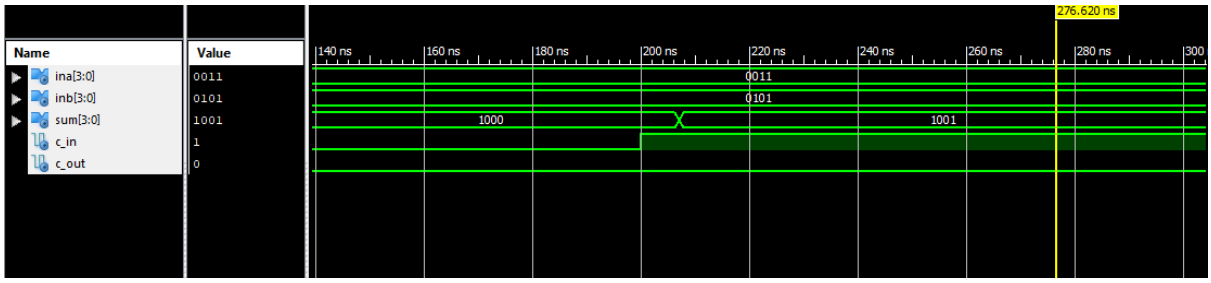
Nbit logic unit



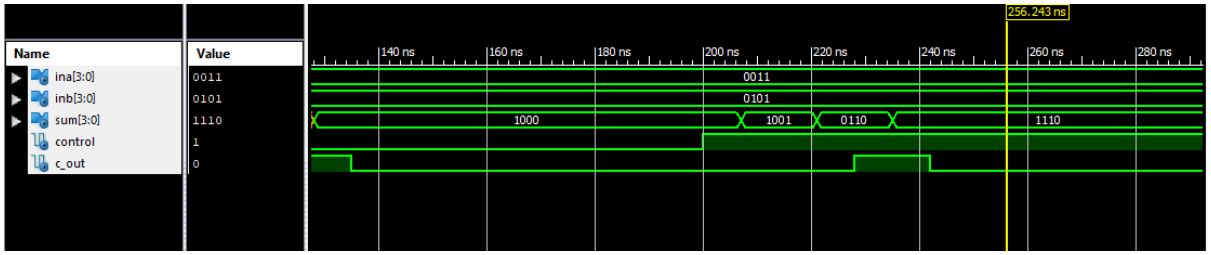
Shift rotate



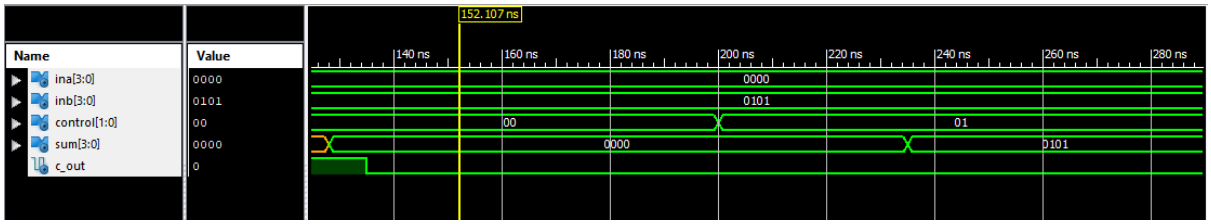
Four bit lac adder

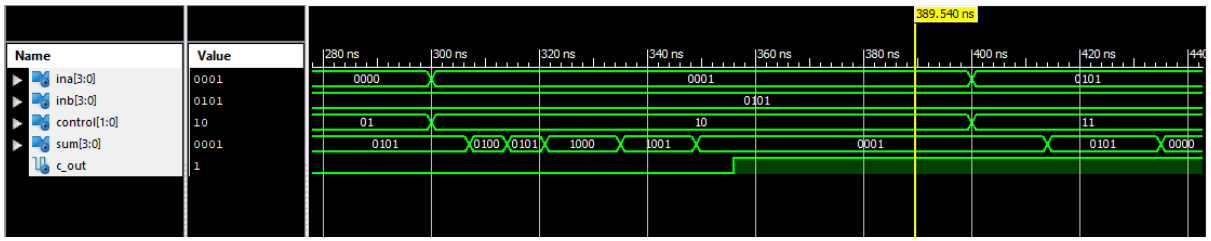


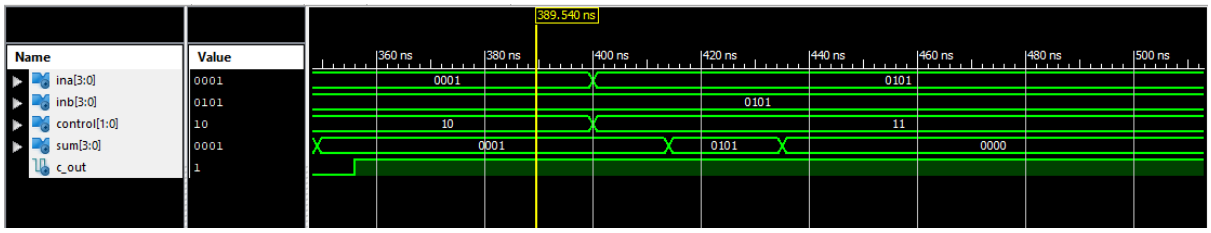
Four bit adder subtractor

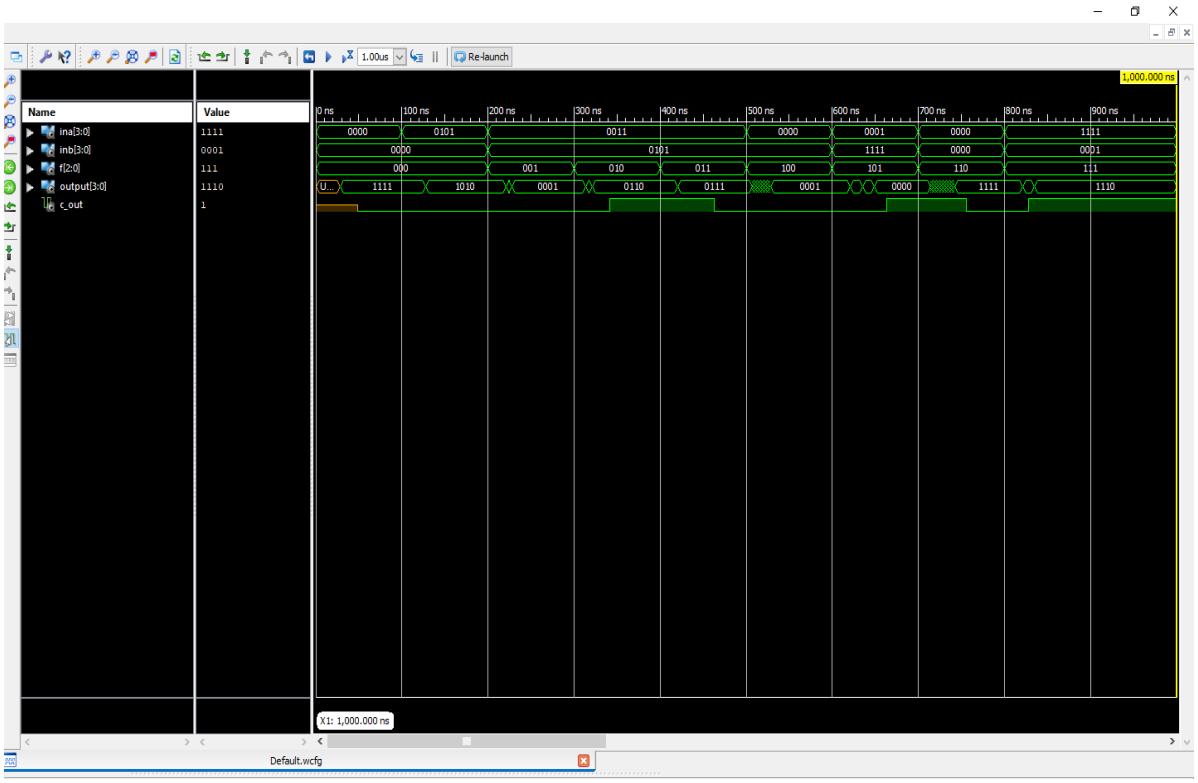


Four bit arithmetic unit







1. 4-bit ALU (top-level device) (code provided)
2.


3.

2. 4-bit Shifter (top-level device) (code provided)