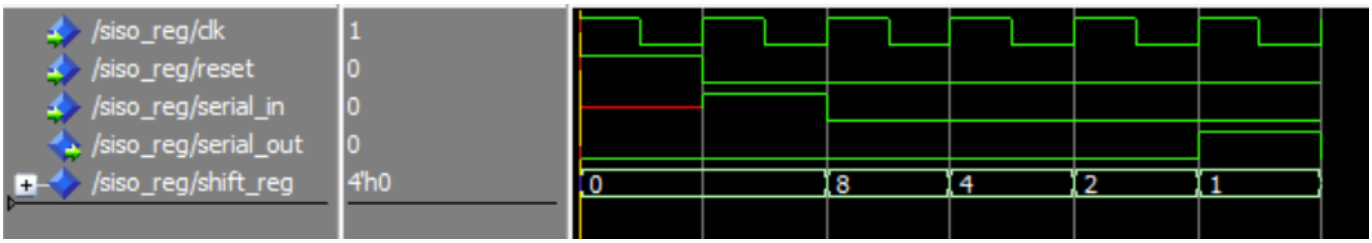
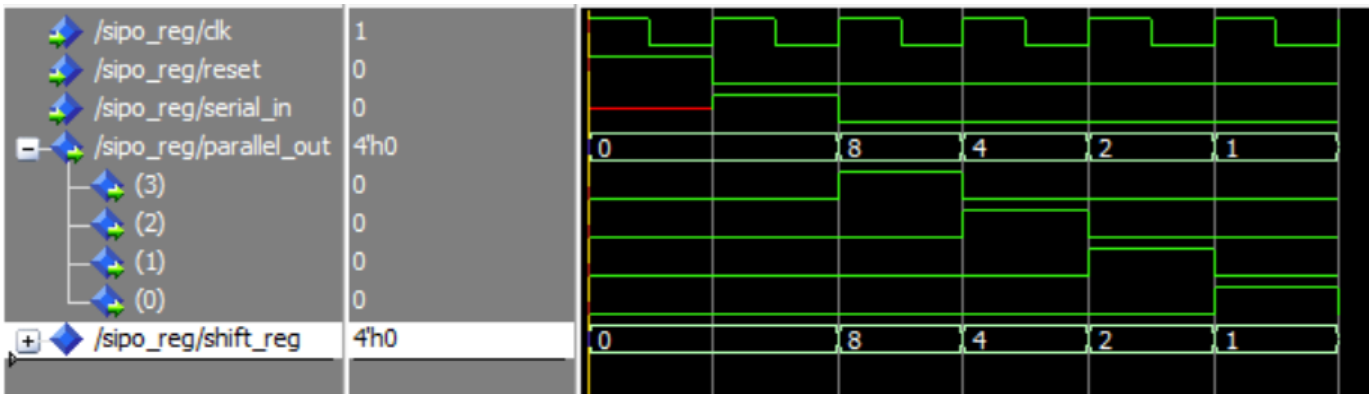
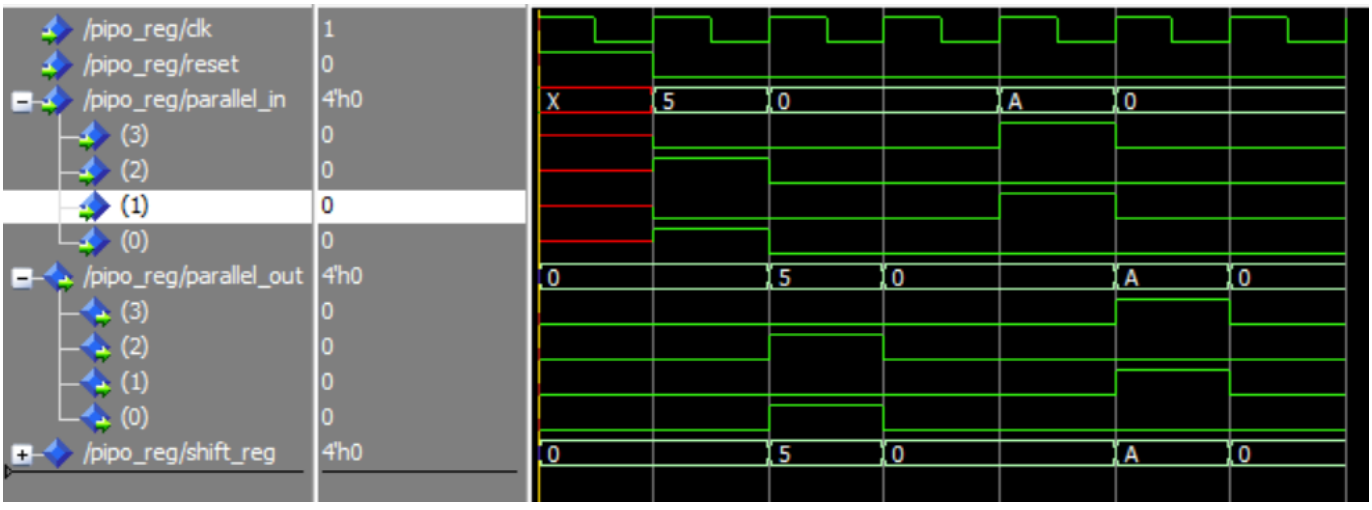
Shift Registers
VHDL Output



SISO Shift Register



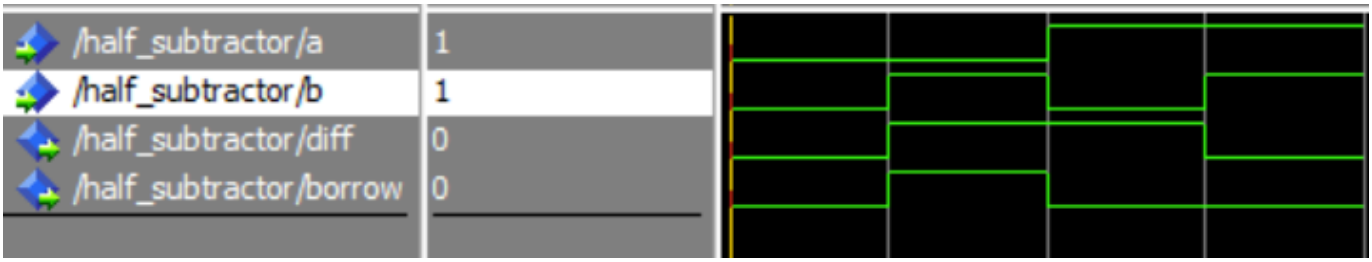
SIPO Shift Register



PIPO Shift Register

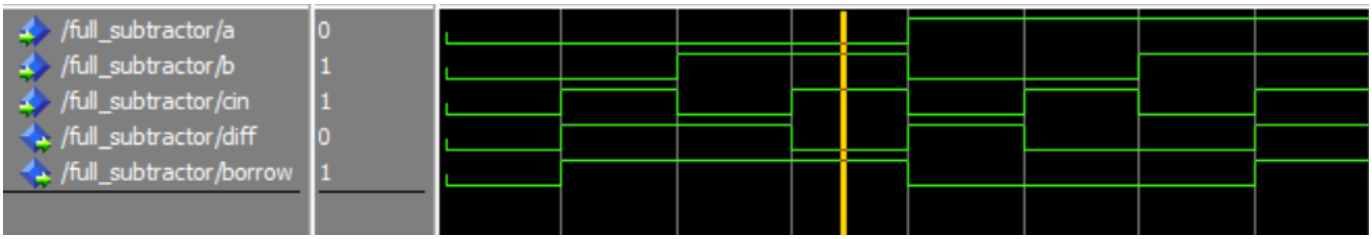
Adder & Subtractor
VHDL Output

Half Adder



Half Subtractor

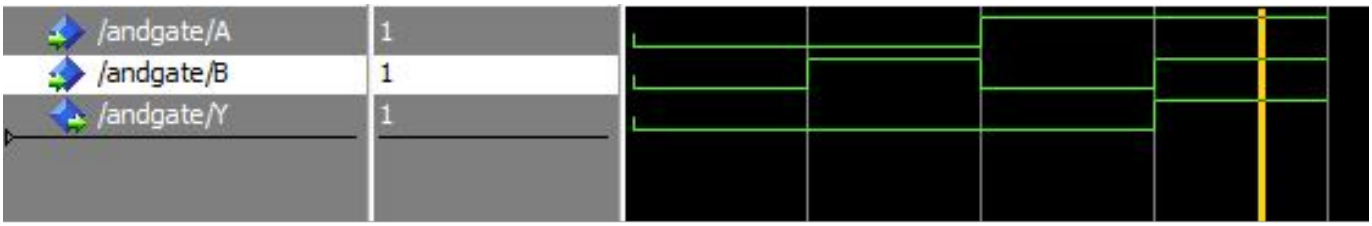
Full Adder



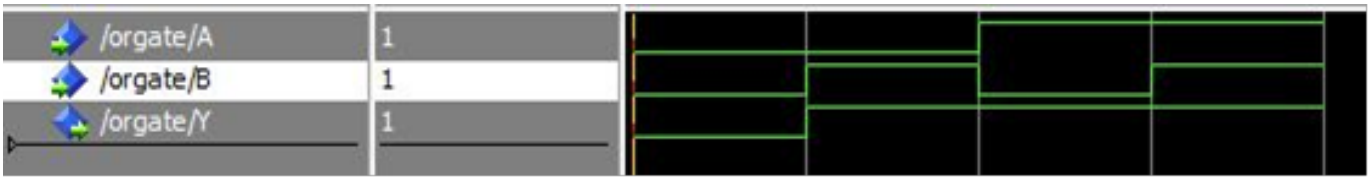
Full Subtractor

Basic Gates
VHDL Output

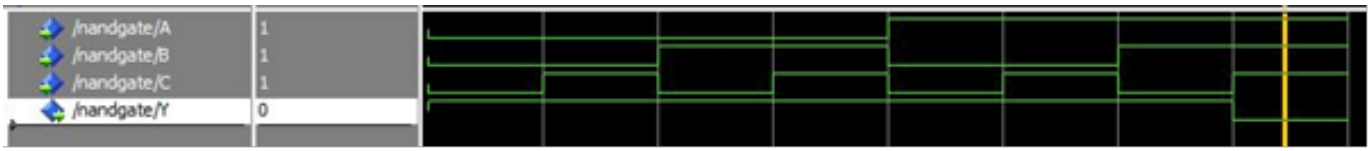
NOT



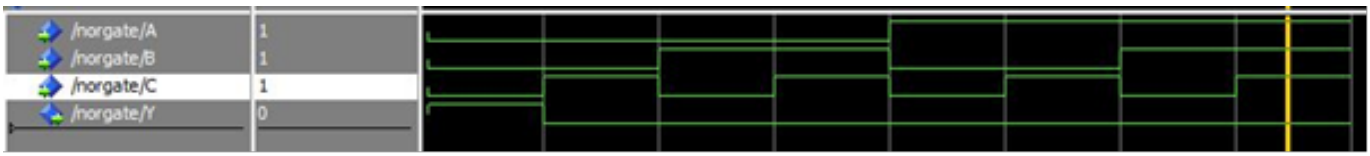
2-input AND



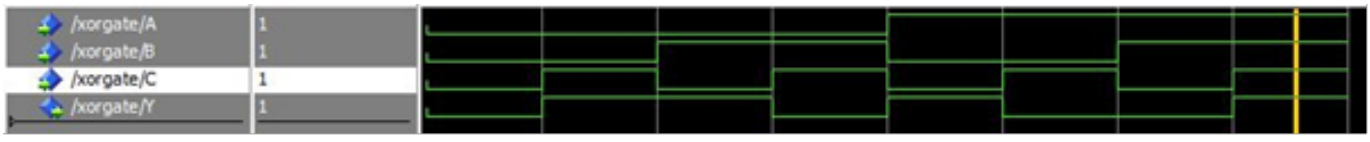
2-input OR



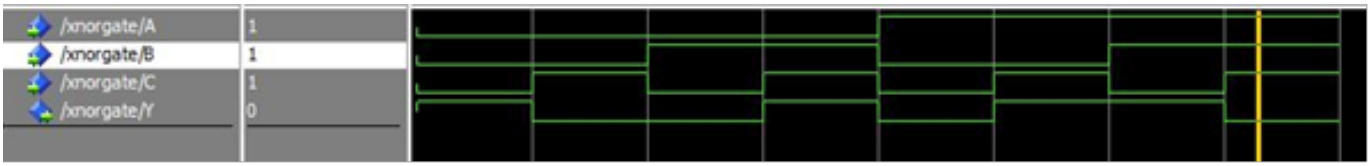
3-input NAND



3-input NOR

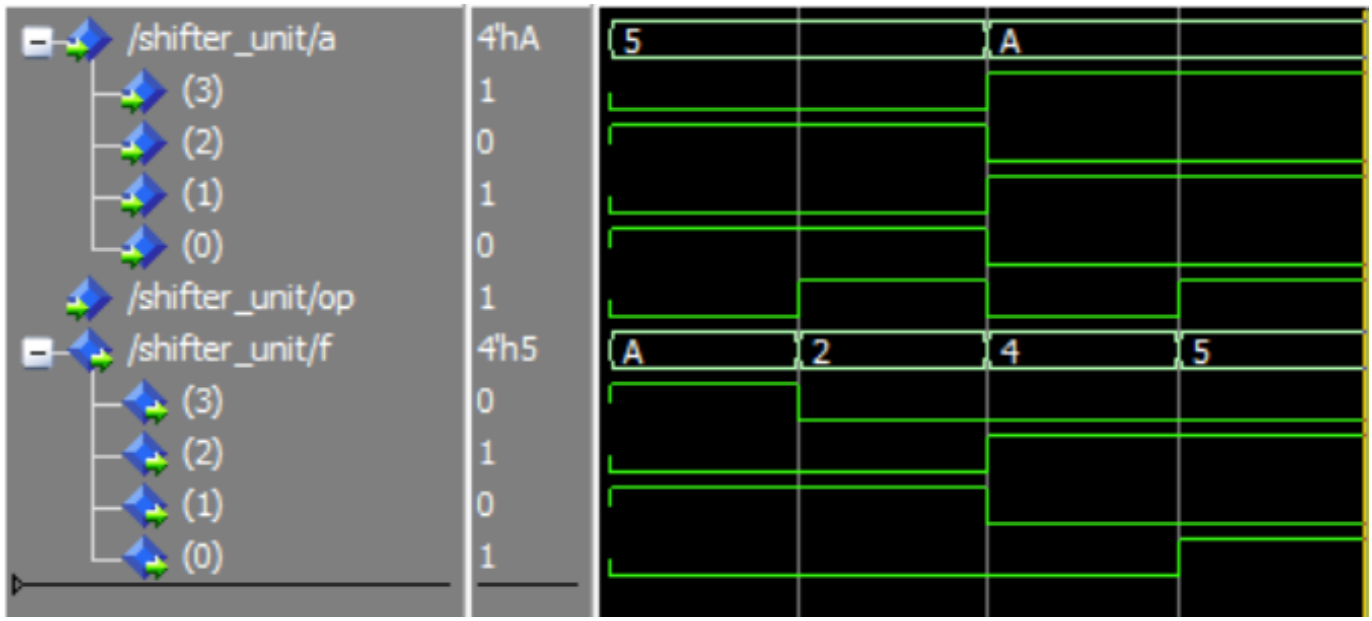


3-input XOR

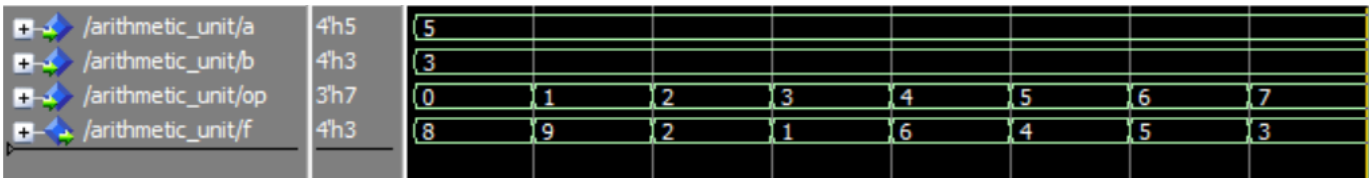


3-input XNOR

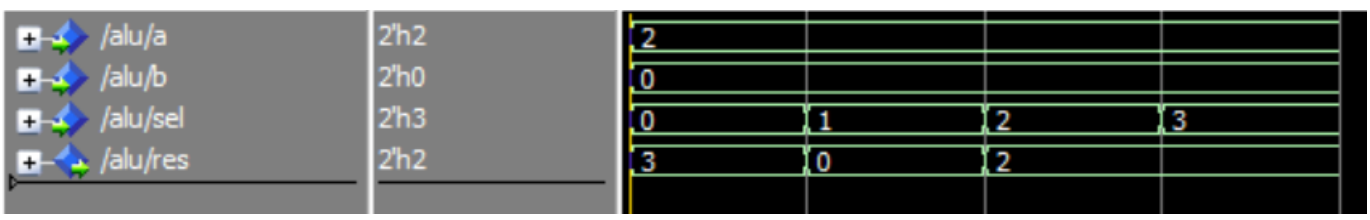
Arithmetic Operations
VHDL Output



Shifter Unit



Arithmetic Unit



ALU