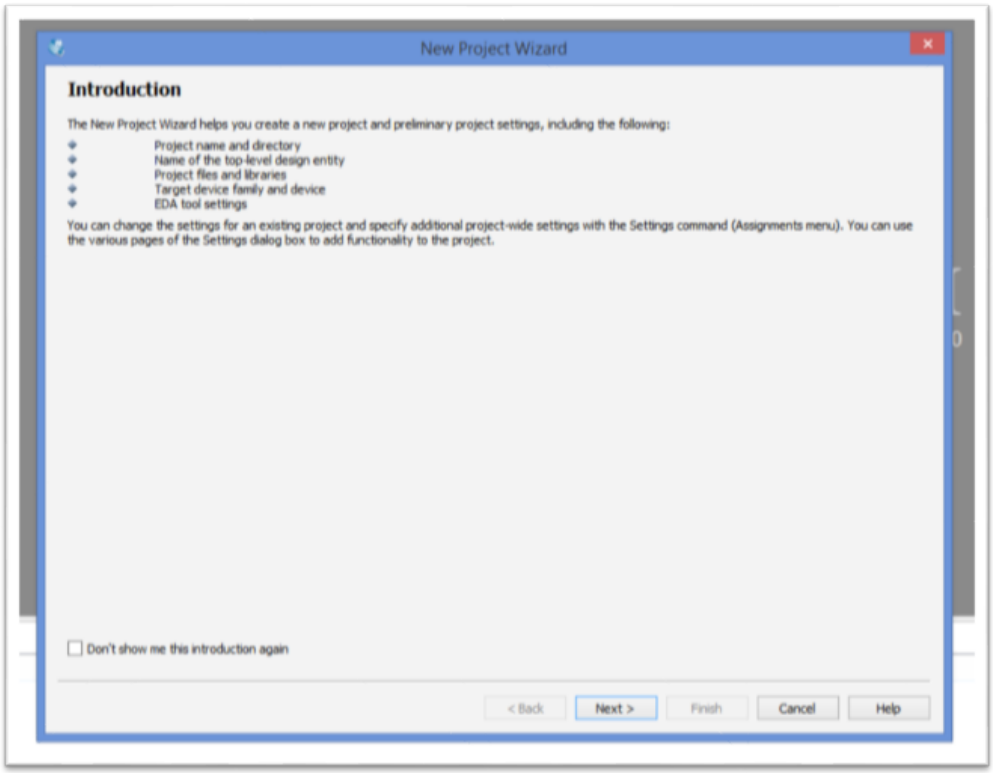
Introduction to Quartus II Software

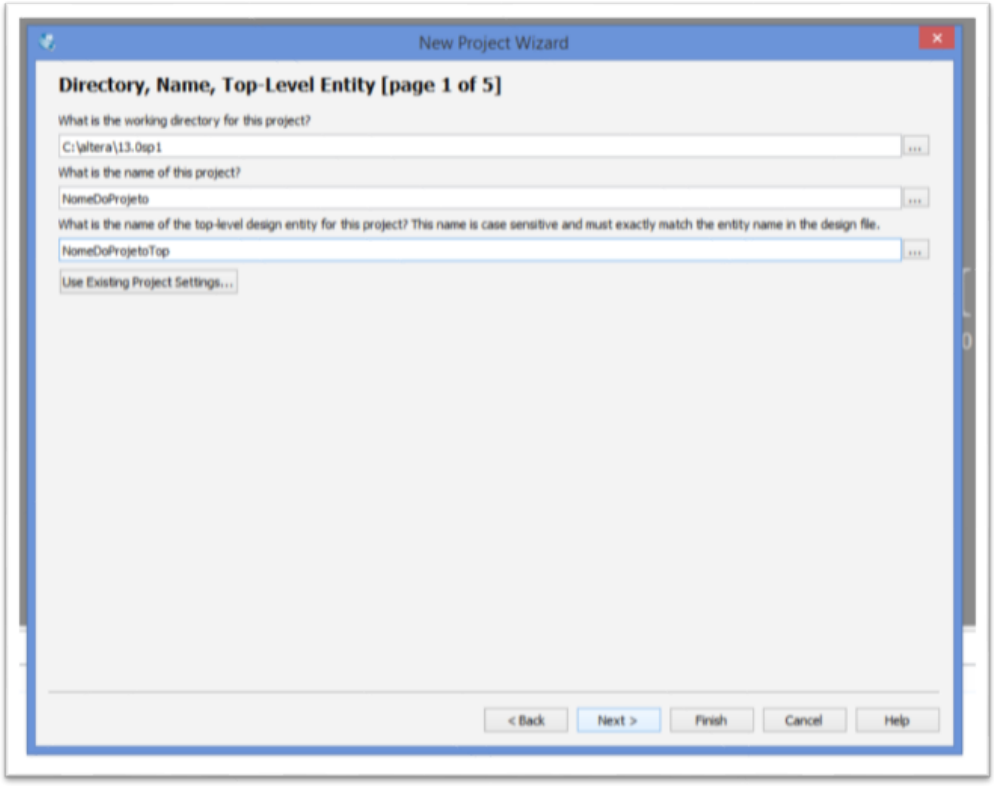
The present text present a quick starting steps to simulate a digital circuit

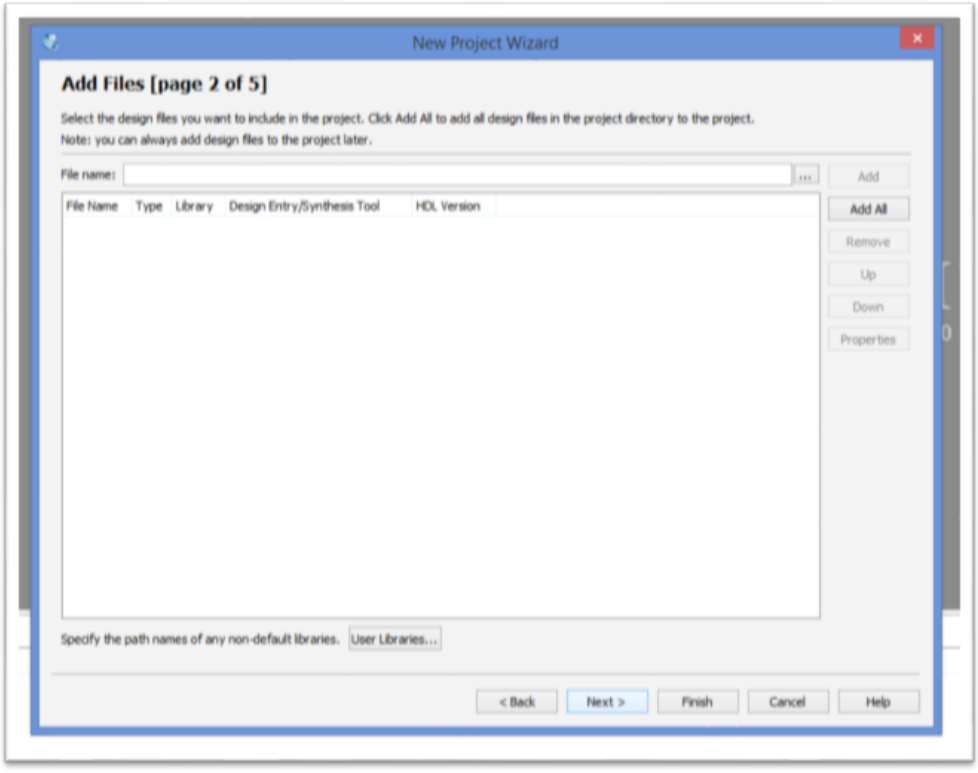
Building a Circuit

Start Quartus II and select Create a new project.

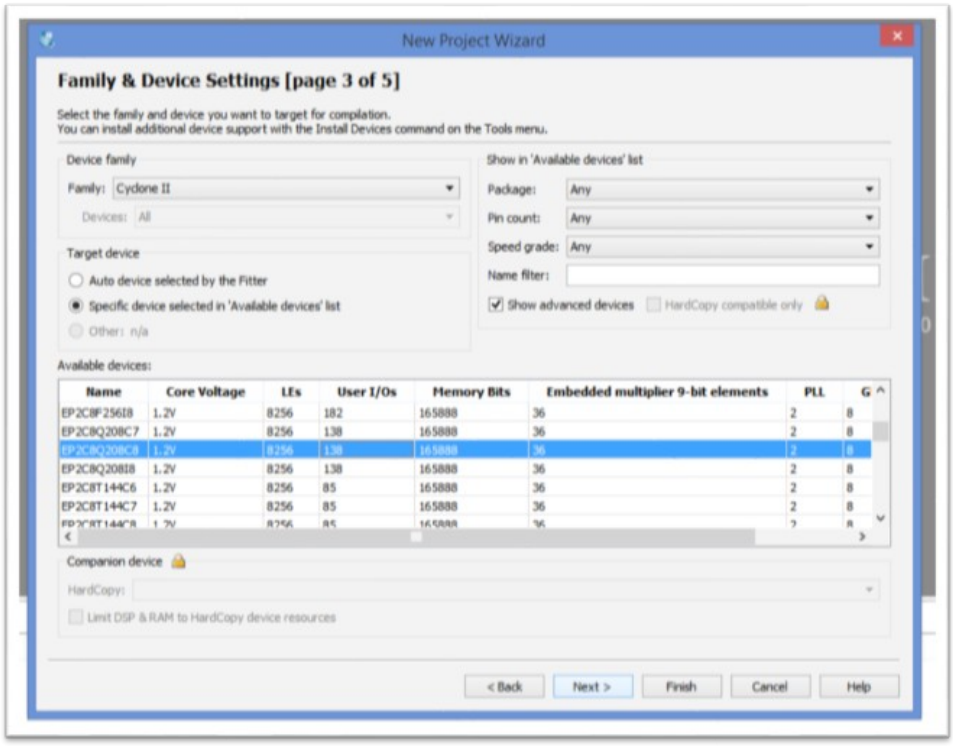


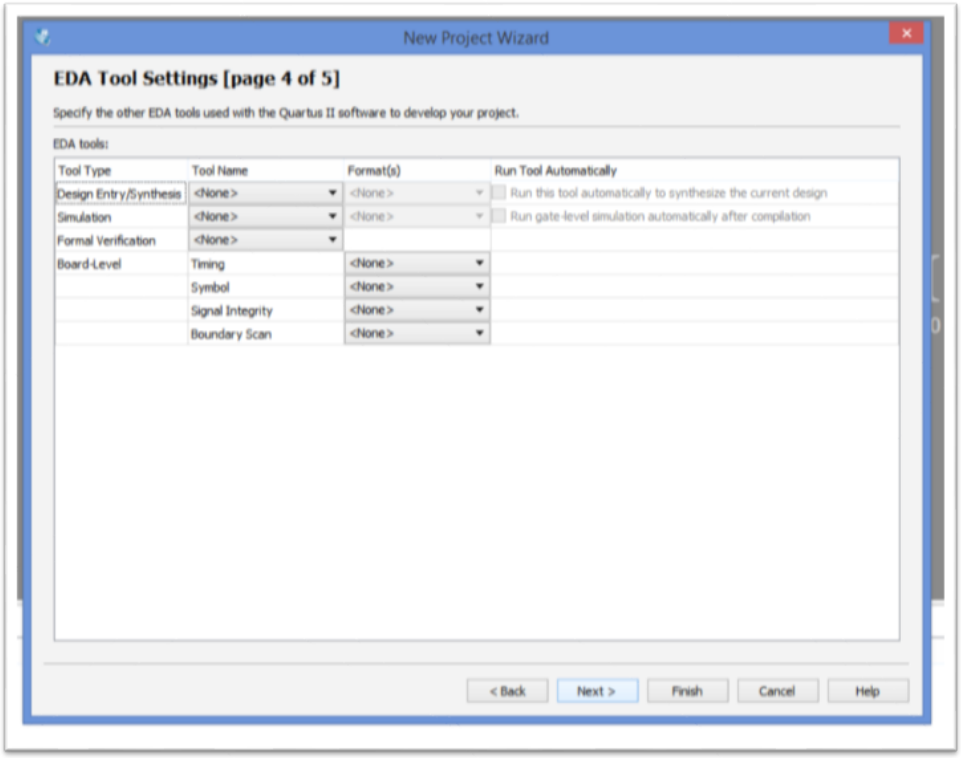
Choose a Directory, name and Top-level entity for your project



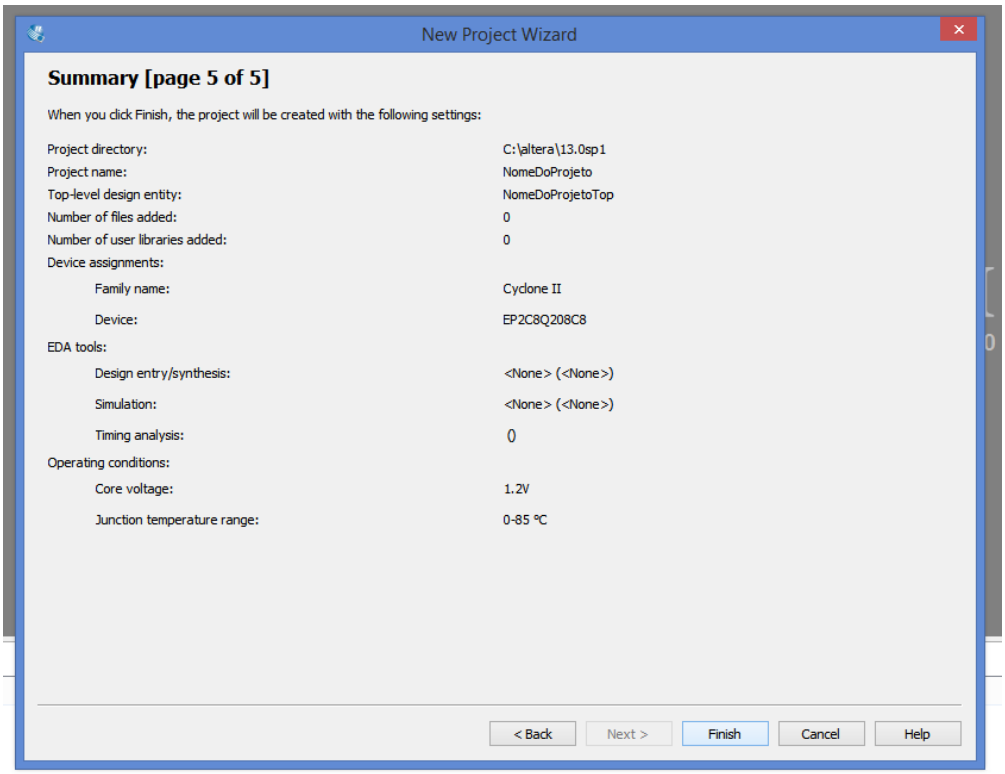


Choose the device family (Quartus II) and the specific device (EP2CBQ208c8)

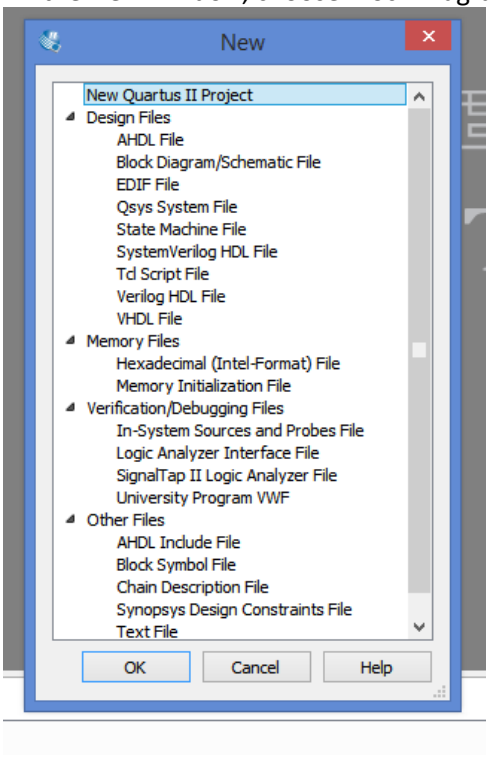


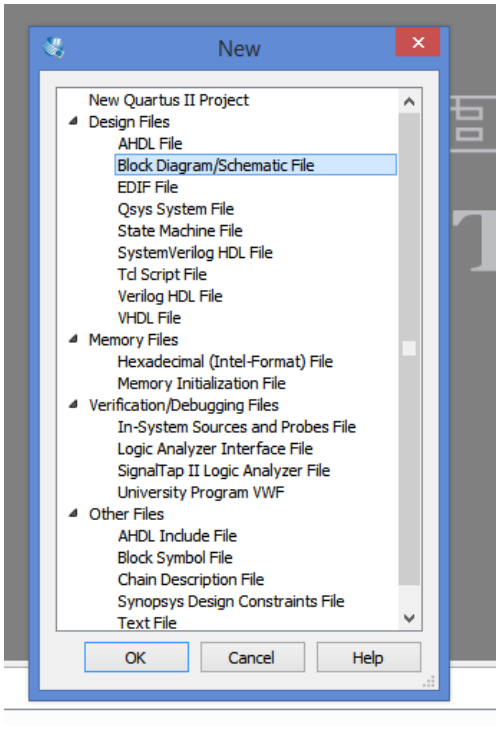


Check the Summary of your project before creating

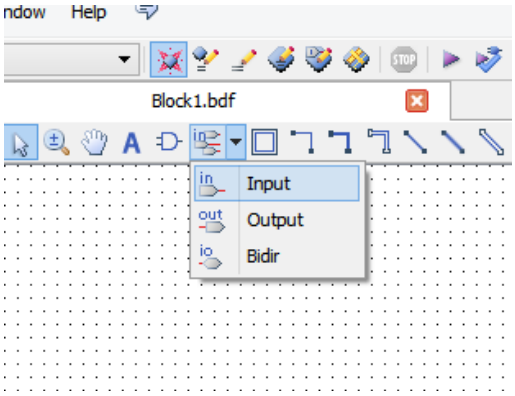


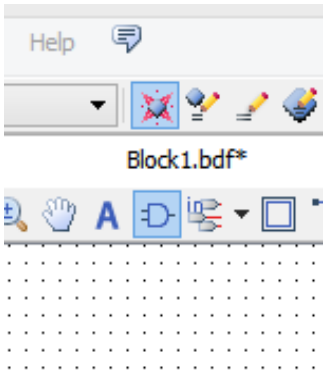
In the New window, choose Block Diagram/Schematic File



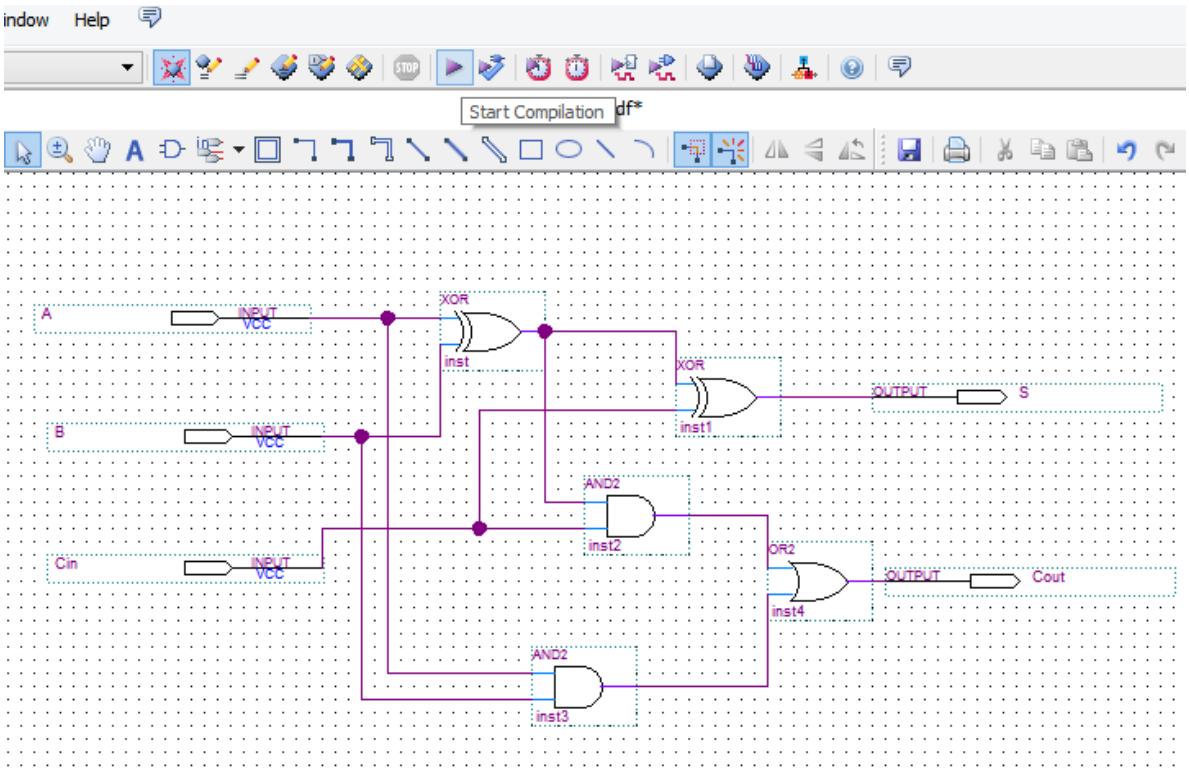


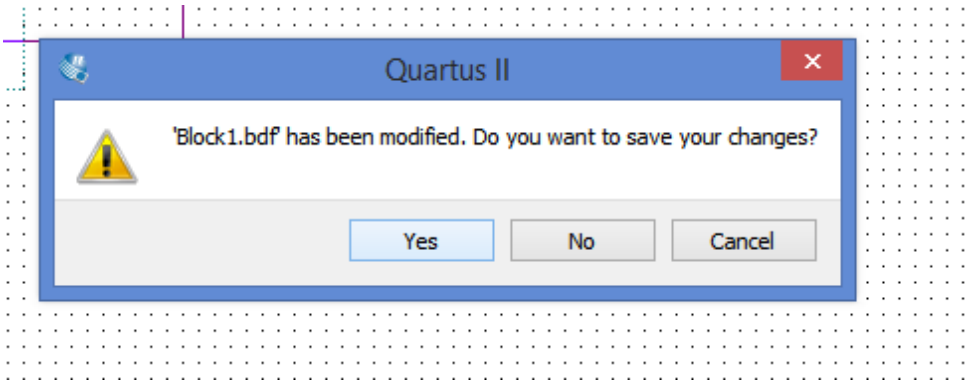
Start with the circuit building

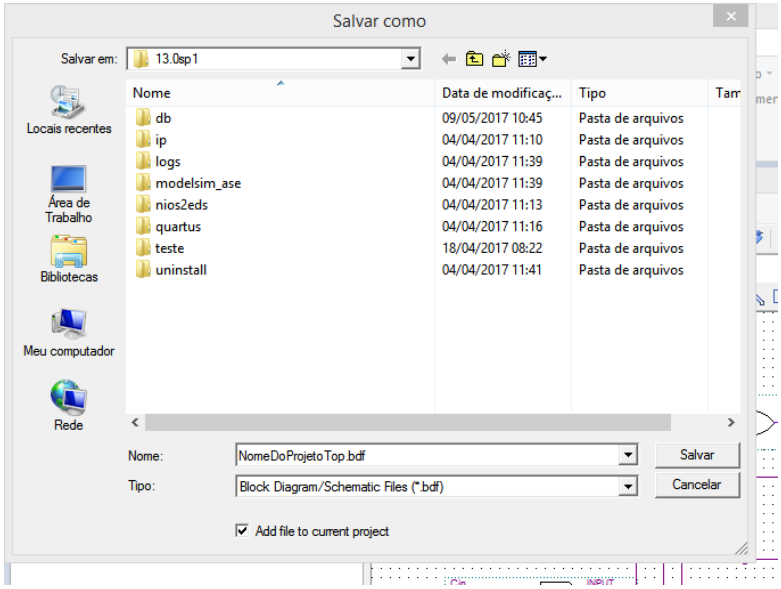


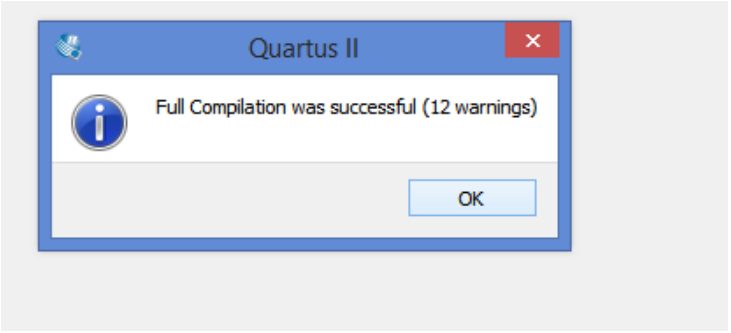


For example a circuit of a Full adder, save changes and start compilation.



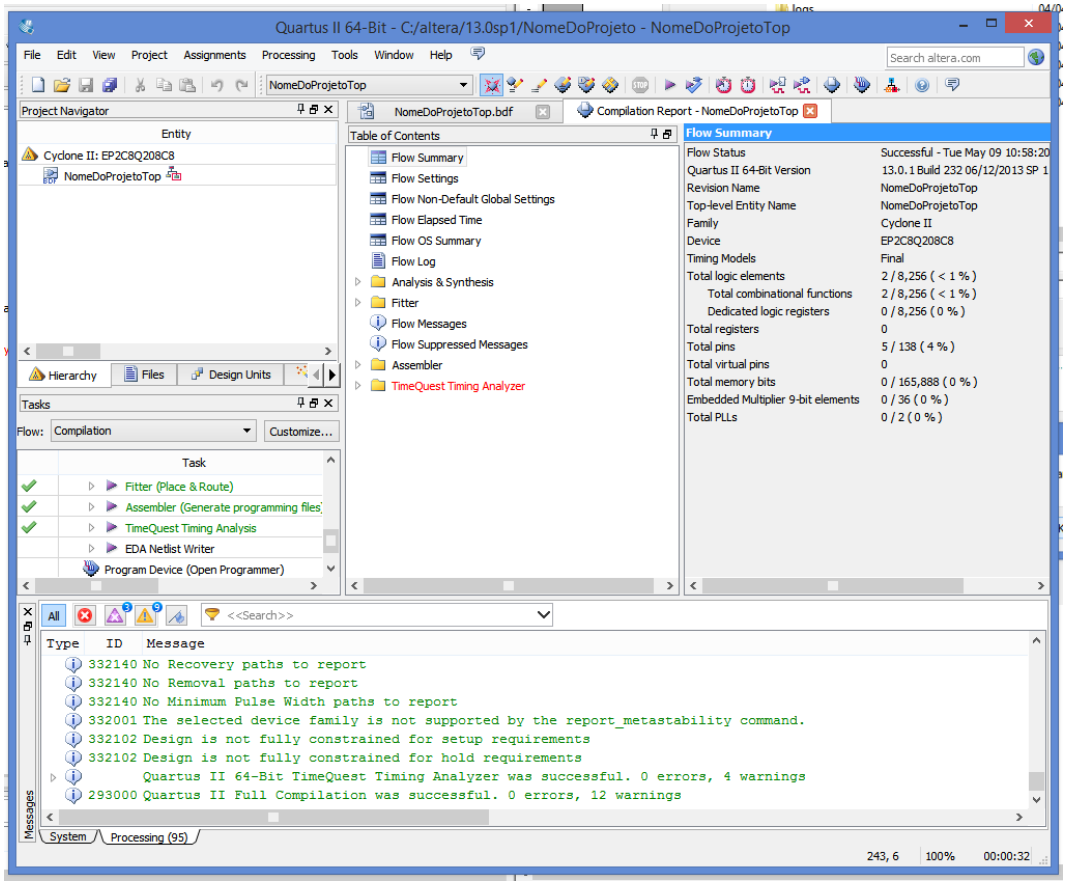




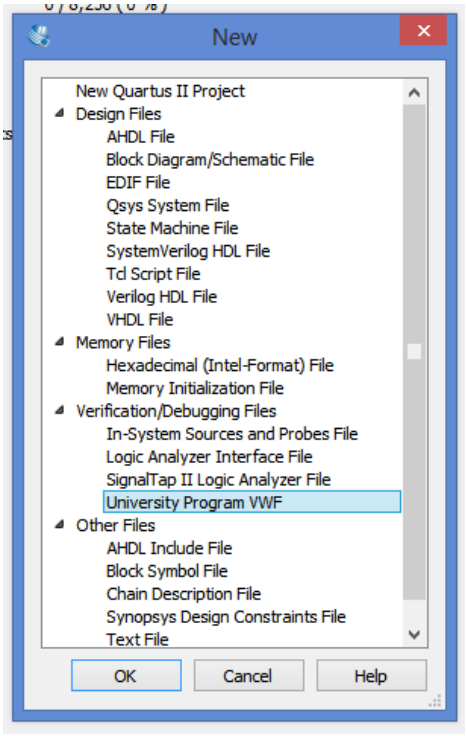


Simulating the Circuit

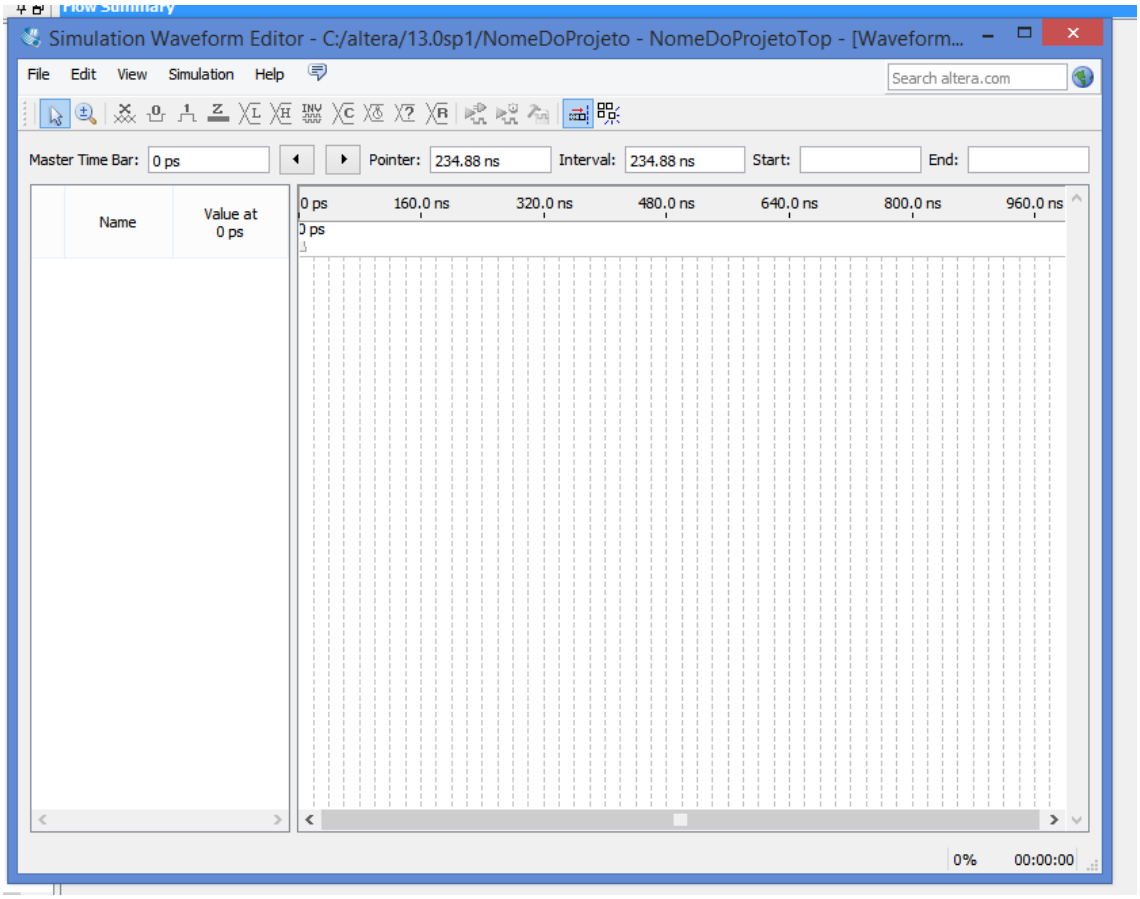
In the environment:



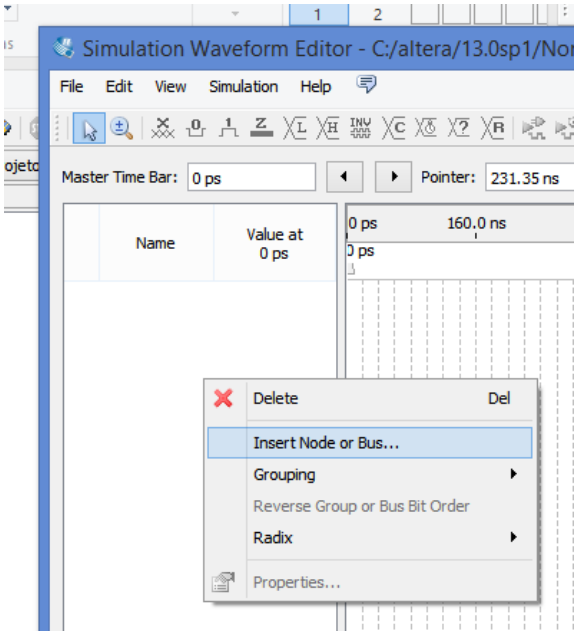
Go to the New window and select University program VWF

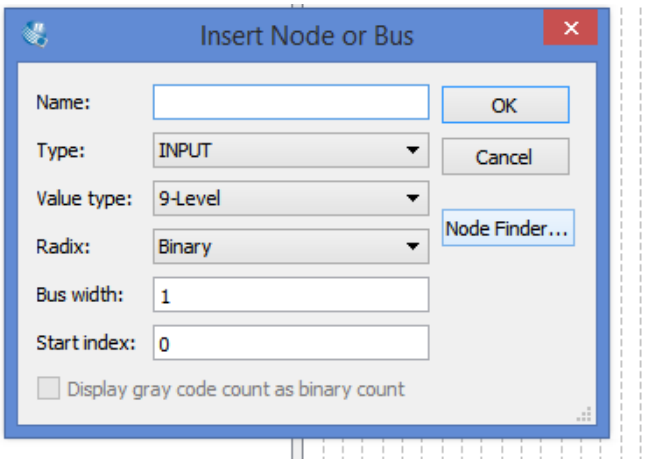


In the Simulation waveform editor,

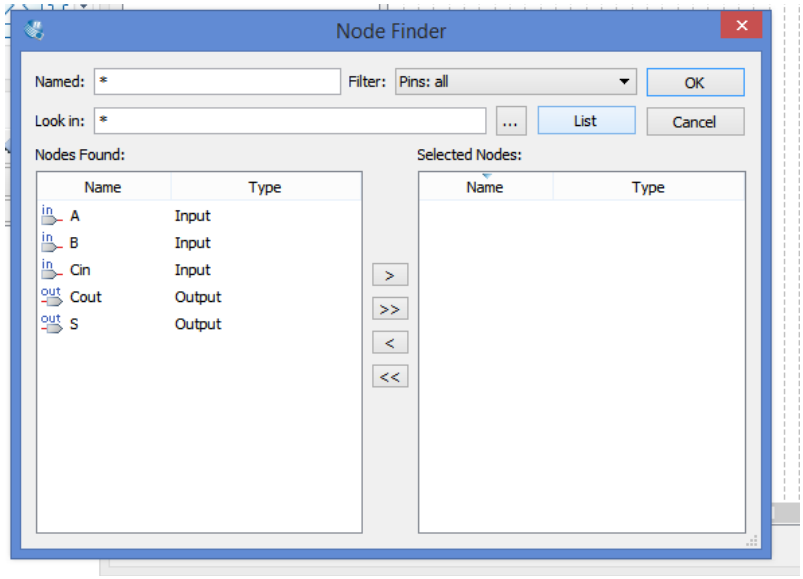


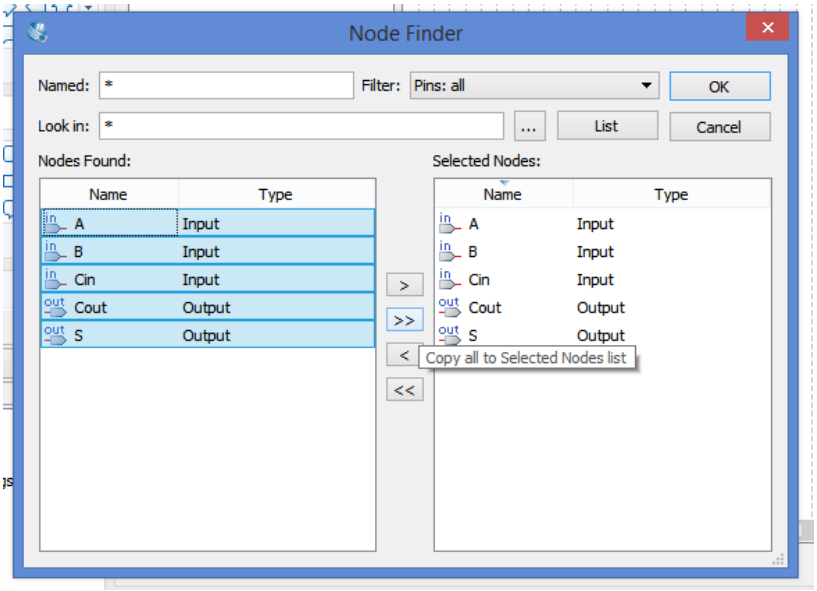
Select the inputs and outputs by right clicking and choosing Node finder command

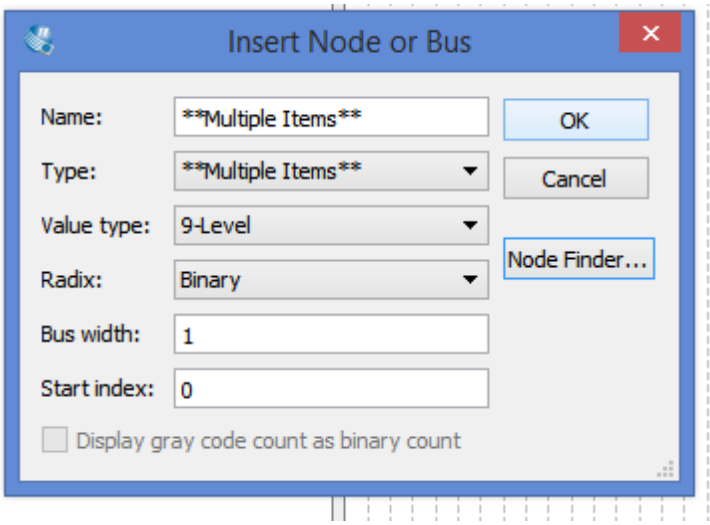




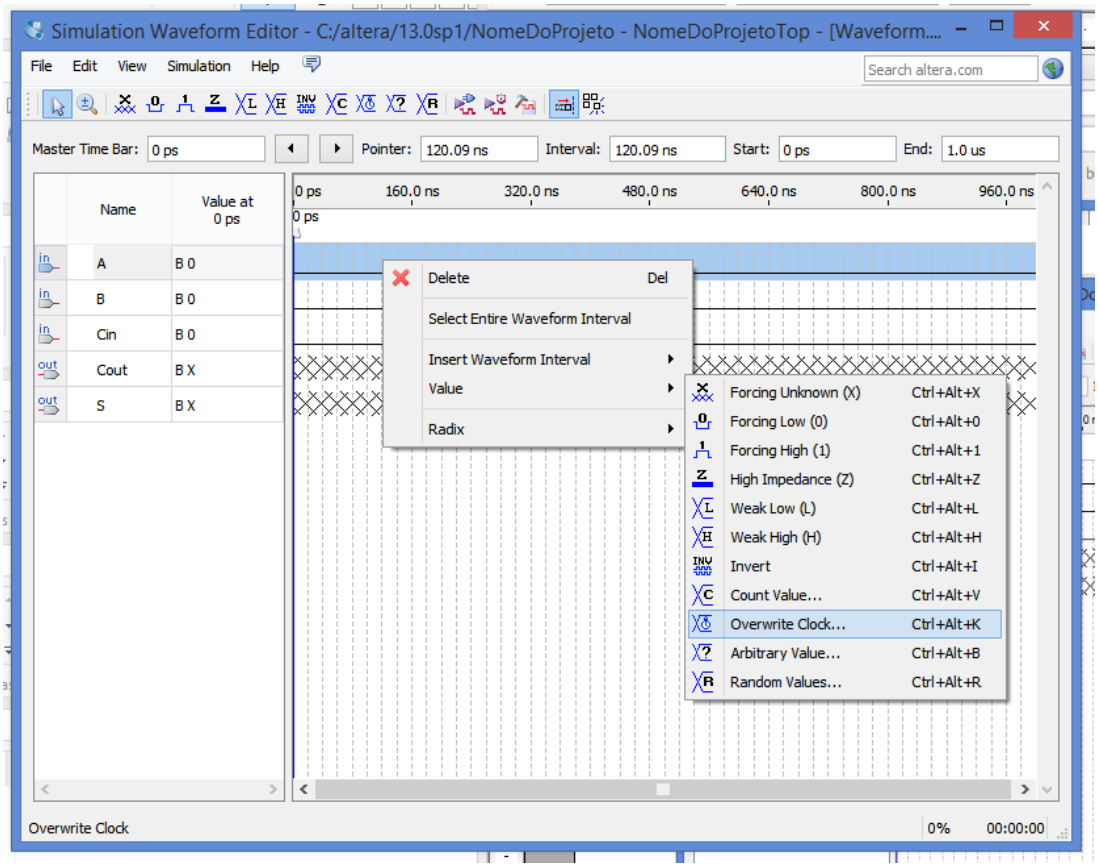
In the node finder, select all inputs and outputs

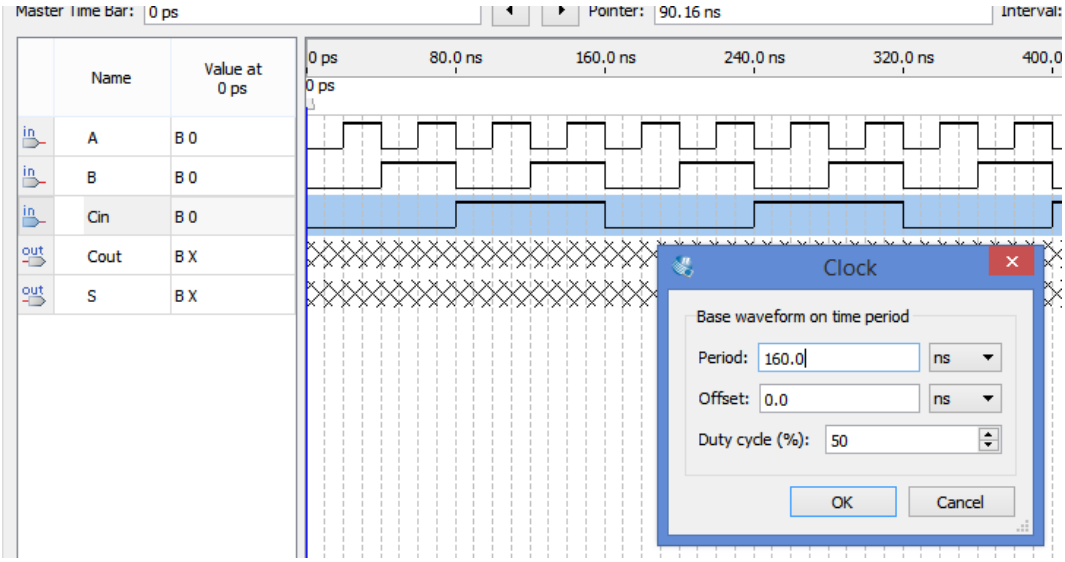




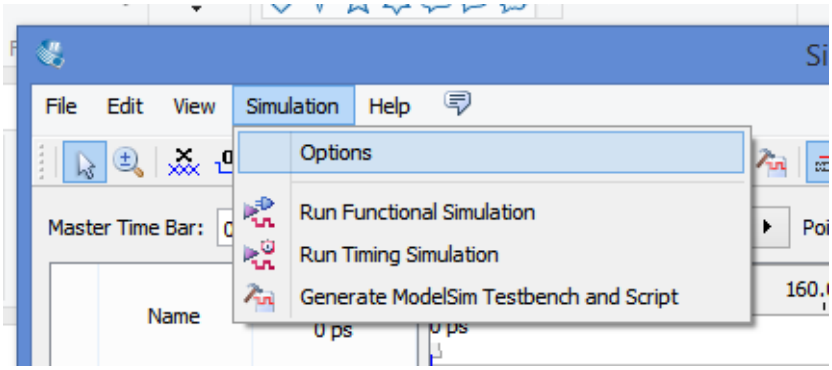


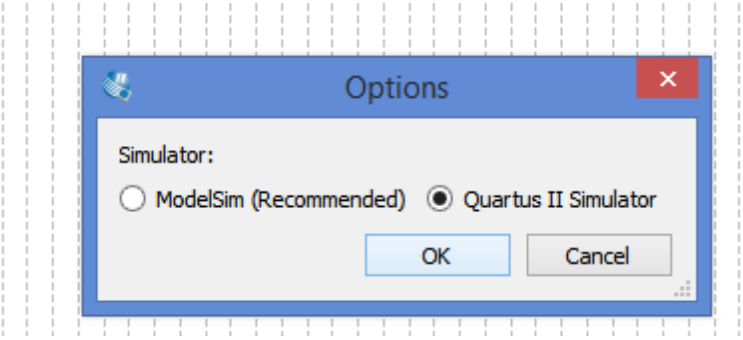
In the Waveform window, set the waveform of the inputs (overwrite clock)

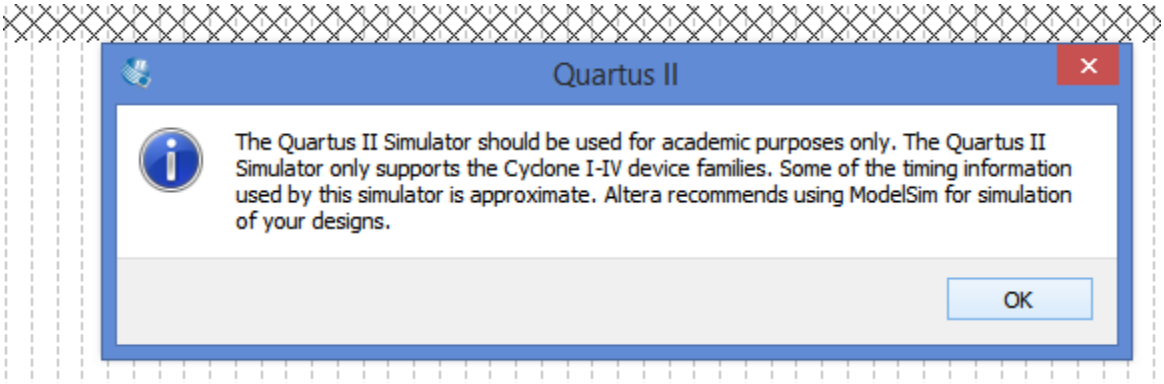


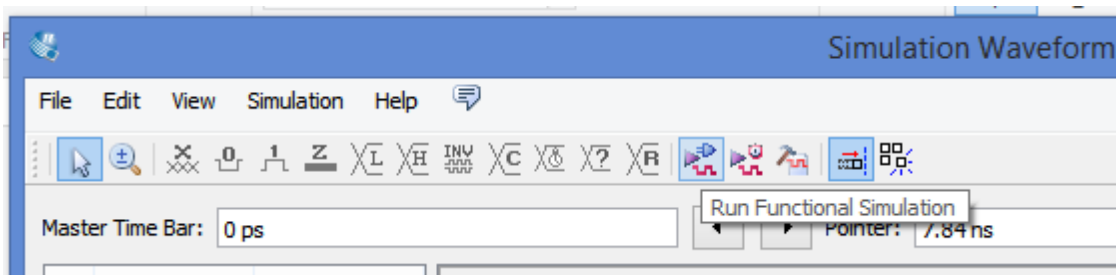


Next, Run simulation; select Quartus II simulator

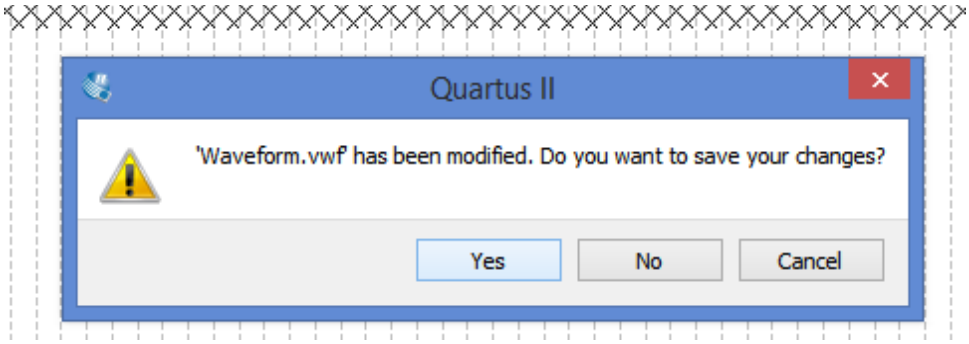


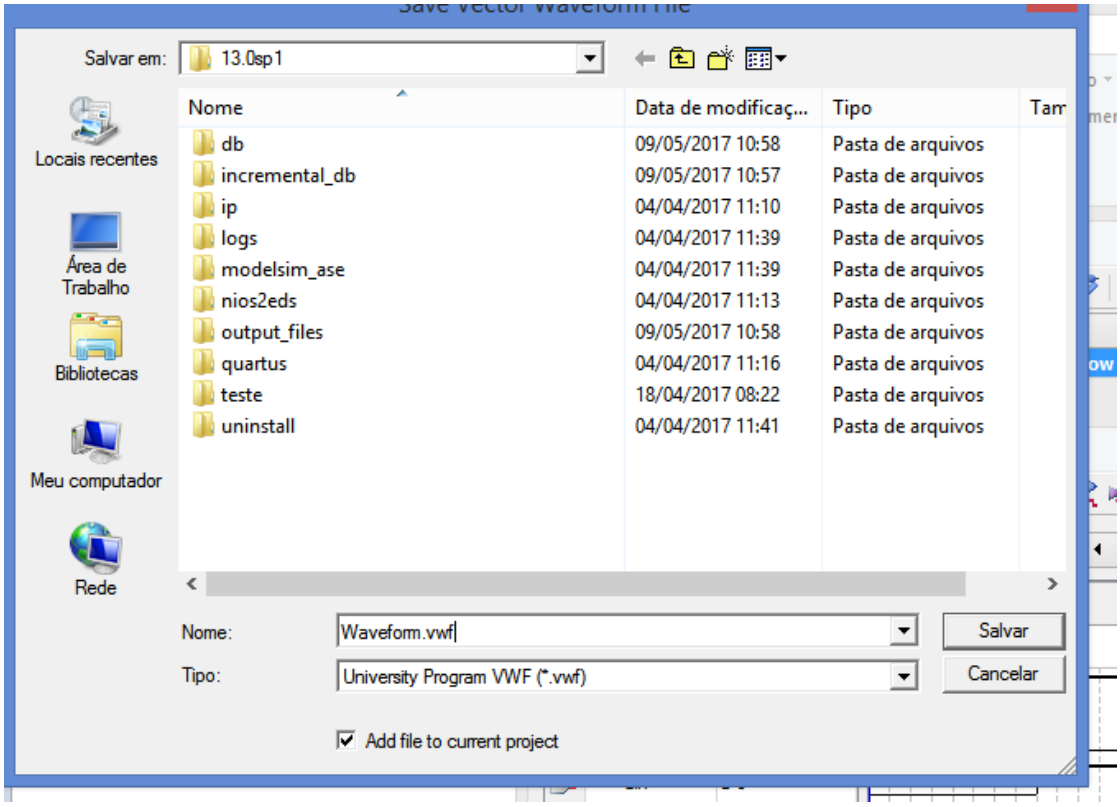






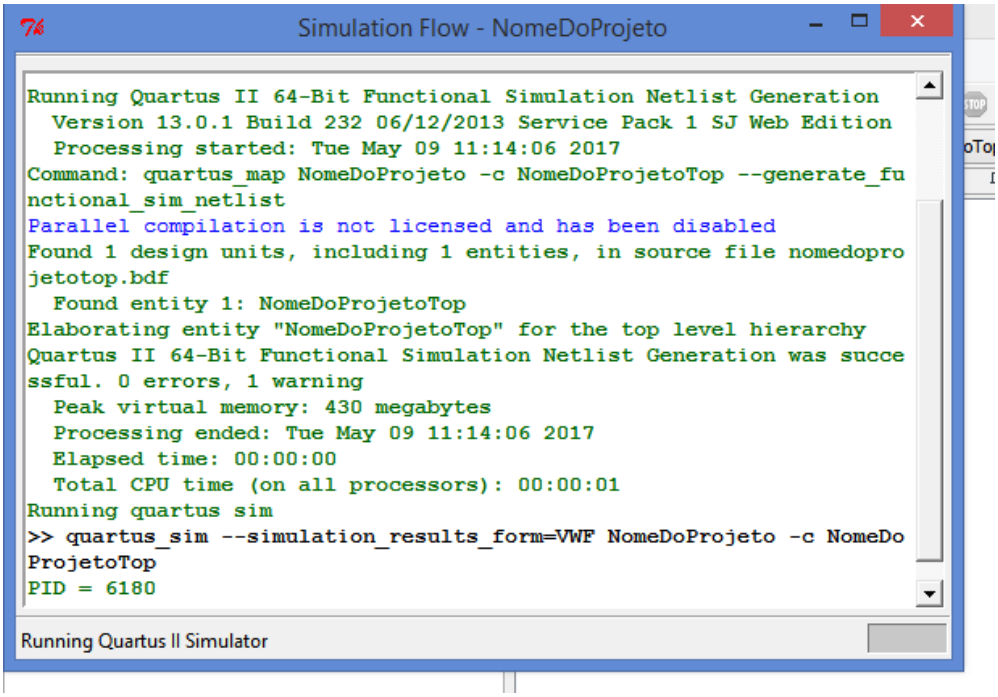
And save changes





Results

Simulation flow window



Waveform of outputs