

EXPERIEMENT NO. 2

Simulation using all the modeling styles and Synthesis of 1-bit half adder and 1-bit Full adder using verilog HDL

AIM:

Perform Zero Delay Simulation of 1-bit half adder and 1-bit Full adder written in behavioral, dataflow and structural modeling style in VERILOG HDL using a Test bench. Then, Synthesize each one of them on two different EDA tools.

Electronics Design Automation Tools used:

- i) FPGA Advantage 3.1 (includes Model Sim simulation tool and Leonardo Spectrum Synthesis Tool)
- ii) Xilinx Project Navigator 8.1 (Includes all the steps in the design flow from Simulation to Implementation to download onto FPGA).

Block Diagram:

1-bit Half Adder:



1-bit Full Adder:



Truth table:

Half Adder:

A	B	Sum	Carry
0	0	0	0
0	1	1	0
1	0	1	0
1	1	0	1

Full Adder:

A	B	Cin	Sum	Cout
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