# Windows - Icarus Verilog Tool Installation and Execution Procedure

Please follow following steps:

## Step1:

Download the Tool from the below Link: http://blever.org/icarus/

Select the latest version iverilog-0.9.2\_setup.exe [6.57MB]

Installation Proceedure:

## Step2:

Double click on it (<u>iverilog-0.9.2 setup.exe</u>) and it will ask license agreement - accept it. for rest of the options keep it defaults and press NEXT. Till you get Finish Step.

Once finish is done. The tool will be installed in c:\ iverilog folder.

Compilation Procedure:

Compile Main Module for error check:

c:\iverilog>bin\iverilog -o HalfAdder HalfAdder.v

Compile Test Bench:

c:\iverilog>bin\iverilog -o HalfAdder HalfAdder\_tb.v

Now Execute

c:\iverilog>bin\vvp HalfAdder

It will dump output on the screen. Step3:

To view wave forms use following command: c:\iverilog>bin\gtkwave HalfAdder.vcd

It will open a window: Now select the Topmodule name "Top", It will show Signals in the browser window.

Now Select All the signals and Press "INSERT button"

It will show the signals in the wave form window.

#### NOTE:

To get Waveform in the GTKwave, You have to Add Two lines in the Testbench Program ("HalfAdder\_tb.v") \$dumpfile("HalfAdder.vcd"); // Specify the file where all the veriable Value Change Dump (VCD) is going to be placed.

\$dumpvars; // Dump the all the varilables value changes in to file.

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To get more clarity:

Execute Attached programs.

#### **EDITOR:**

You can use Notepad or Wordpad

When you are saving the file, Save the file name with extention in double quotes. Example:

Save file as "HalfAdder.v" // Double quotes will accepts as fileName.v rather taking as a fileName.v.txt.

STILL IF YOU HAVE ANY PROBLEMS, PLZ.. GET BACK TO ME OVER MAIL.