iverilog installation

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http://bleyer.org/icarus/

Icarus Verilog for Windows

Icarus Verilog is a free compiler implementation for the IEEE-1364 Verilog hardware description language. Icarus is

In this page you will find easy to install Icarus Verilog packages compiled with the MinGW toolchain for the Windows

Download

You can find Icarus Verilog sources and binaries for most platforms at the Icarus site FTP. The sources available her

- iverilog-v11-20210204-x64_setup.exe [44.1MB]
- iverilog-10.1.1-x64_setup.exe [9.77MB]
- iverilog-10.0-x86_setup.exe [11.1MB]
- iverilog-20130827_setup.exe (development snapshot) [11.2MB]
- iverilog-0.9.7_setup.exe (latest stable release) [10.5MB]
- iverilog-0.9.6_setup.exe [10.4MB]
- iverilog-0.8.6_setup.exe (latest release 0.8 series) [1.29MB] iverilog-0.8.6.7z [800kB]
- iverilog-0.7-20040706_setup.exe [1.09MB] iverilog-0.7-20040706.7z [588kB]

Resources

Here are some pointers to interesting Verilog related resources.

- Verilog Resources
- GTKWave Electronic Waveform Viewer
- GTKWave for Windows
- IVI, a graphical frontend for Icarus
- Eclipse Verilog Editor
- Getting started with Icarus Verilog on Windows
- Verilog syntax highlighting for UltraEdit.

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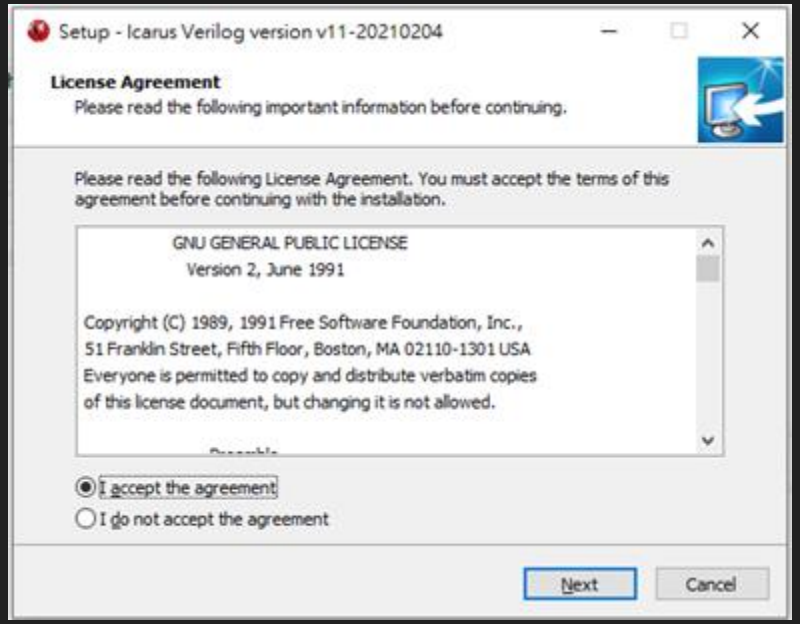
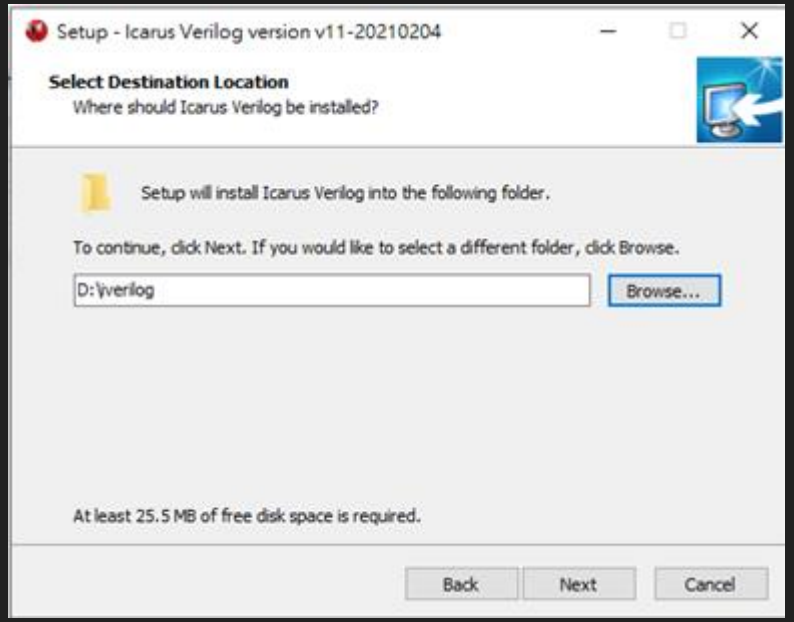
This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implie

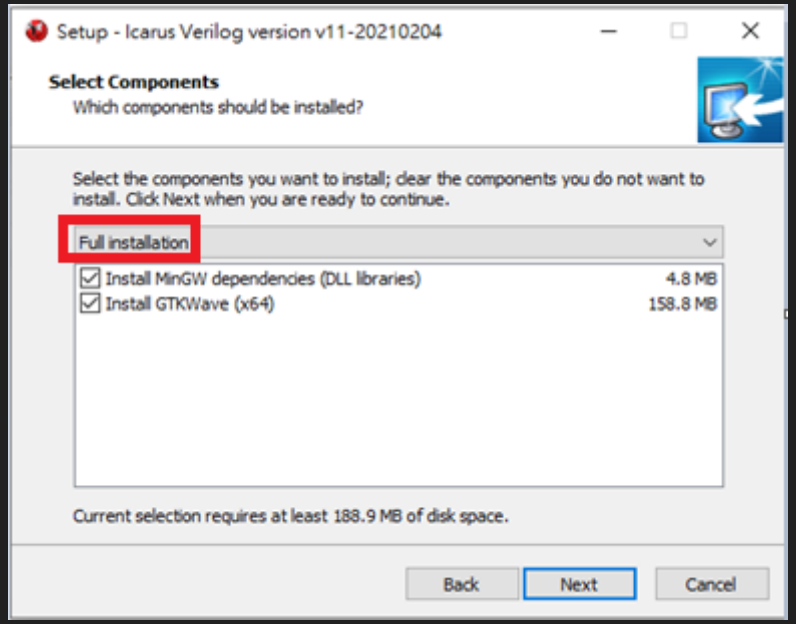

Setup - Icarus Verilog version v11-20210204
License Agreement
Please read the following important information before continuing.
Please read the following License Agreement. You must accept the terms of this agreement before continuing with the installation.
GNU GENERAL PUBLIC LICENSE
Version 2, June 1991
Copyright (C) 1989, 1991 Free Software Foundation, Inc.,
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.
I accept the agreement
I do not accept the agreement
Next
Cancel

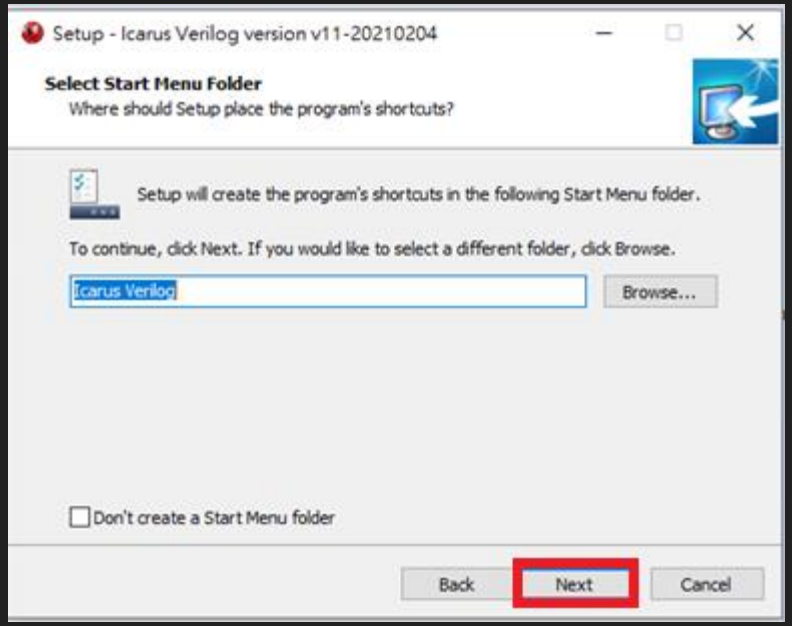
Choose the path you want

Ex: D:\



Full installation

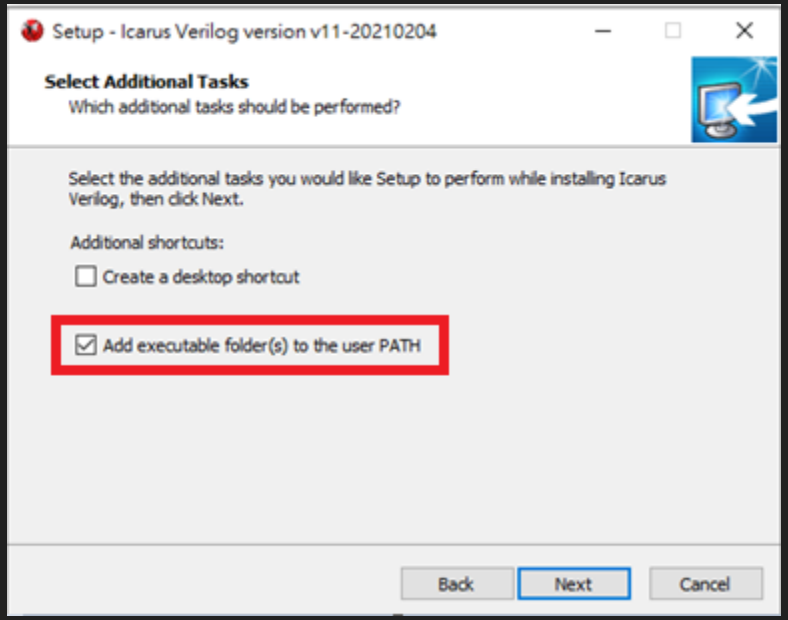



Setup - Icarus Verilog version v11-20210204
Select Start Menu Folder
Where should Setup place the program's shortcuts?
Setup will create the program's shortcuts in the following Start Menu folder.
To continue, click Next. If you would like to select a different folder, click Browse.
Icarus Verilog
Browse...
Don't create a Start Menu folder
Back
Next
Cancel

Important

Select → ADD executable folder(s) to user PATH

This will help you set up the Environment Variable



Restart your computer

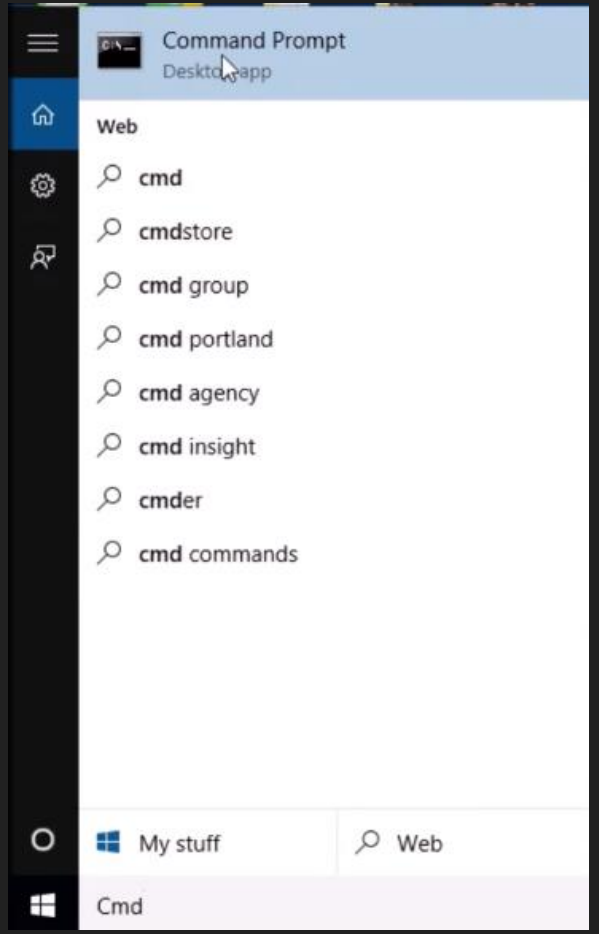
After your installation is complete, please restart your computer

so that the environment variables will take effect.

Run your verilog program

Windows cmd

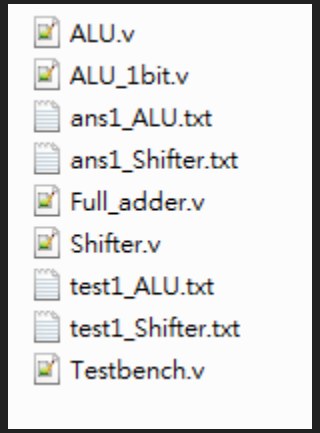
Search cmd at search bar

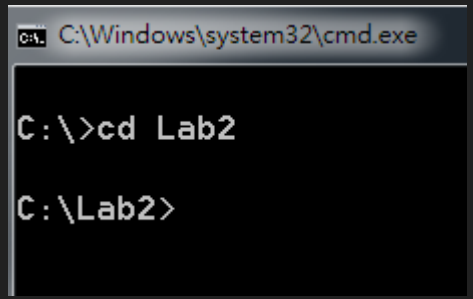


Change the directory in cmd

Ex: The path of my code is at C:\Lab2

(put all your code, test and ans data in same folder)



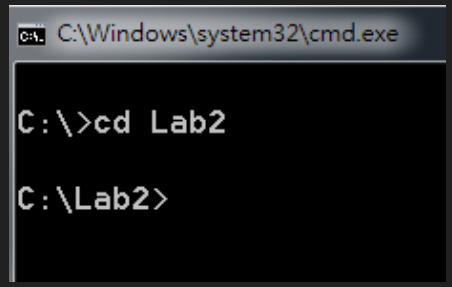


How to change the directory (folder) in CMD

change the directory

$ cd xxx

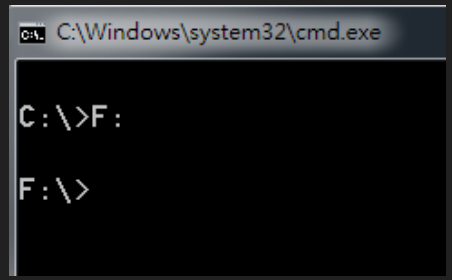
Ex: cd Lab2



change the drive

Ex: go to F:

$ F:



view the contents of a directory

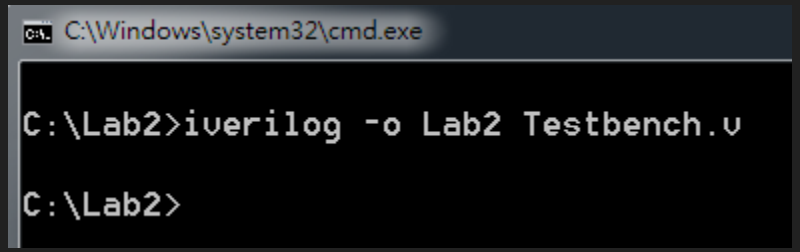
$ dir

Compile your code

$ iverilog -o xxxx Testbench.v

xxxx is the output file name

Ex: Lab2

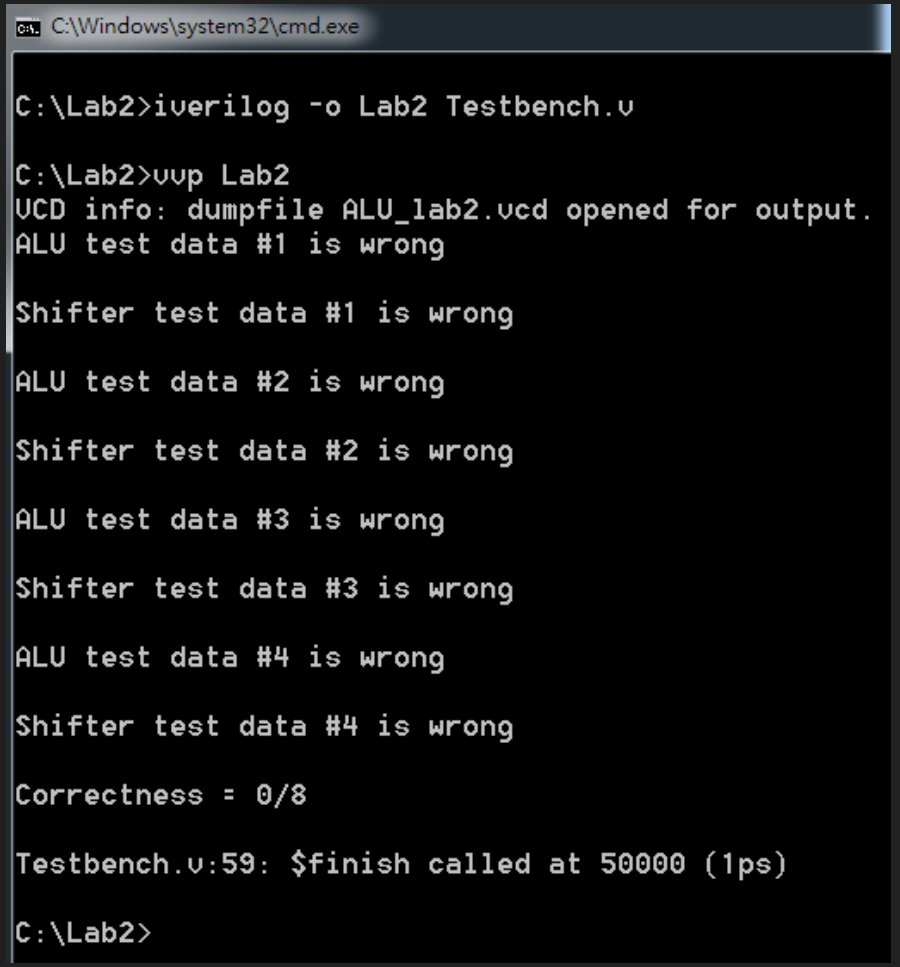


Run your code

$ vvp xxxx

execute the file xxxx you compiled

Ex: Lab2



GTKWave

The code in Testbench.v will save the wave information in ALU_lab2.vcd

You can use gtkwave to check your wave if you need

$ gtkwave ALU_lab2.vcd &