

Verilog Installation Guide

Outline

- Install Icarus Verilog
- Install GTKWave

Install Icarus Verilog

Windows

1. Please link to <http://bleyer.org/icarus/> and download setup



Icarus Verilog for Windows

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

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

Download

You can find Icarus Verilog sources and binaries for most platforms at the [Icarus site FTP](#). The sources are

- [iverilog-v12-20220611-x64_setup \[18.2MB\]](#)
- [iverilog-v11-20210204-x64_setup.exe \[14.1MB\]](#)
- [iverilog-v11-20201123-x64_setup.exe \[18.1MB\]](#)
- [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.

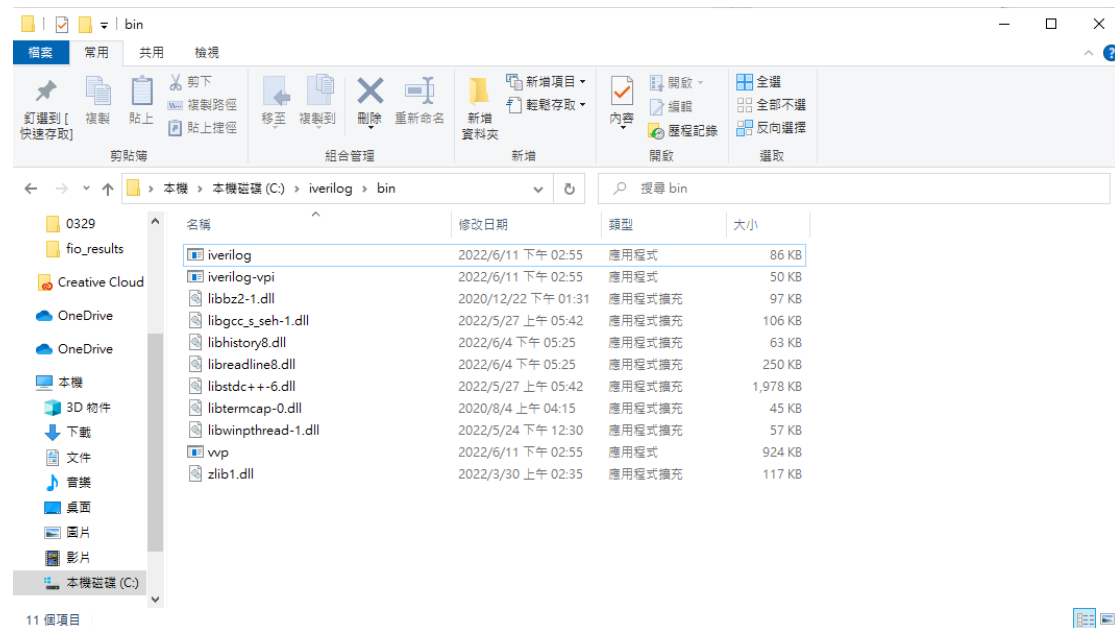
- [Verilog Resources](#)
- [GTKWave Electronic Waveform Viewer](#)
- [GTKWave for Windows](#)
- [IVI, a graphical frontend for Icarus](#)
- [Eclipse Verilog Editor](#)
- [Verilog syntax highlighting for UltraEdit.](#)

Copyright

This program is free software; you can redistribute it and/or modify it under the terms of the [GNU General](#)

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

2. set 'iverilog\bin' to the environment path



3. Open command line and verify it

```
(base) PS C:\Users\ecclab_huang> iverilog
C:\iverilog\bin\iverilog.exe: no source files.

Usage: iverilog [-EiSuvV] [-B base] [-c cmdfile|-f cmdfile]
             [-g1995|-g2001|-g2005|-g2005-sv|-g2009|-g2012] [-g<feature>]
             [-D macro[=defn]] [-I includedir] [-L moduledir]
             [-M [mode=]depfile] [-m module]
             [-N file] [-o filename] [-p flag=value]
             [-s topmodule] [-t target] [-T min|typ|max]
             [-W class] [-y dir] [-Y suf] [-l file] source_file(s)

See the man page for details.
```

Linux

1. Execute this command line 'sudo apt install iverilog'

MacOS

1. Execute this command line 'brew install icarus-verilog'

Install GTKWave

Windows

1. Make sure that you check "Install GTKWave (x64)" when installing iverilog then it will be automatically installed with it. The default GTKWave path will at "C:\iverilog\gtkwave\bin\gtkwave.exe"

Linux

1. Execute this command line "sudo apt install gtwave"

MacOS

1. Please link to <https://gtkwave.sourceforge.net/> and download it