

HDL Tools					
	Several tools are available for hardware description languages. • Several of these tools can be used under Emacs, since Emacs has historically been used extensively by in the HDL development domain. • This table provides information about several of these tools: • Language Servers: • list the various language servers, the implementation technology, the tools required to install them, their compatibility (if documented) and support for HDLs. • If there is important information that you should read, then there's a link to a separate document.				
	Last updated on: 2025-09-15				
Language/Servers	hdl_checker	svlangserver	svls	verible	veridian
Server implemented in:	Python	Typescript, Javascript	Rust	C++	Rust
Install with	pip3	npm	• Binaries • using snapcraft • from source using cargo • to: ~/.cargo/bin	• Binaries, • Nix • build from source: • requires bazel, C++17, python3 • homebrew • to: \$(brew prefix)/Cellar/verible/vxxx/bin where <i>vxxx</i> is the version number.	• Pre-requisites: • verible • verilator • OS binaries • Build from source • to: ~/.cargo/bin
• <i>what I tried:</i>			<i>built from source, macOS</i>	<i>homebrew, macOS</i>	<i>built from source, macOS</i>
Emacs other requirements			Emacs requirements: • verilog-ext • See: 🔗🔗 - Verilog • PEL installs it when pel-use-verilog-ext user-option is on.		Emacs requirements: • verilog-ext • See: 🔗🔗 - Verilog • PEL installs it when pel-use-verilog-ext user-option is on.
Compatible with		Emacs 29.0.50 • lsp-mode Ventilator 4.110IVerilog 10.2Verible v0.0-114...			
🔗🔗 - Verilog					
🔗🔗 - VHDL					
type checking	slang	verible	verilator		
Implemented in	• C++ • pyslang: Python	C++			
Install with	• Build from source : use cmake. • get/build pyslang	• Binaries, • Nix • homebrew	• See verilator installation manual • homebrew		
🔗🔗 - Verilog					
🔗🔗 - VHDL					