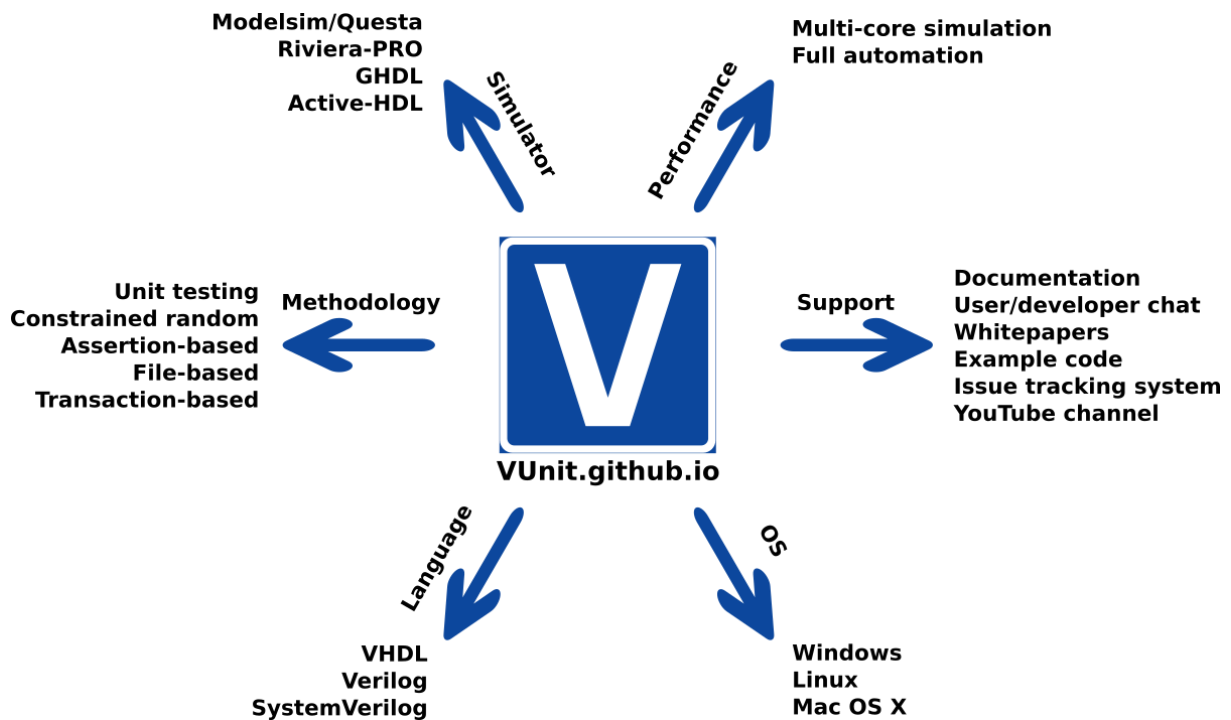




VUnit – A Test Framework for HDL

VUnit is a free and open source (FOSS) test framework available at <http://vunit.github.io>. It builds on the unit testing idea to increase productivity by enabling early and frequent testing through automation. It doesn't replace but rather complements and supports traditional methodologies such as constrained random and assertion/file/transaction-based verification.



Full Automation

VUnit includes a check library for writing self-checking testbenches and included scanners for identifying files, tests, file dependencies, and file changes enable automatic (re)compilation and execution of test suites.

Methodology Support

VUnit includes a complete logging framework, an array package for working with arrays of data, and a communication library that enables testbenches based on high-level message passing. VUnit also provides a number of bus functional models (BFMs) to support common interfaces such as AXI.

Wide Support

There are many ways to get support for VUnit. There is documentation, whitepapers, code examples, a YouTube channel, and a chat where you can interact with the user/developer community. Everything is available at <http://VUnit.github.io>.



Simulators

VUnit supports a number of other simulators: ModelSim/Quarta, Riviera-PRO, Active-HDL, Cadence Incisive and GHDL. GHDL is a free and open source VHDL simulator that can be used to remove any license count limitations you may have.

Languages and OS

VUnit started as a framework for VHDL but also has support for Verilog/SystemVerilog. It runs on Windows and Linux.

Multithreaded

Multithreading support means that all your CPU cores can be used for simulation which has a significant impact on performance.

Synective Labs - The FPGA Experts

Synective Labs is specializing in FPGA technology and FPGA based solutions with focus on high performance systems. Our offerings range from development of complete systems to assisting in our customers development process, helping them to design better products. With VUnit we have helped customers to with less effort increase test coverage and quicker reach fully functional systems. How can we help you?



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