

Overview

The Blue Pearl Software Suite is a set of analysis tools for IP and FPGA verification that finds:

- RTL design errors and problems
- Missing Clock Domain Crossing (CDC) synchronization
- Timing false and multi-cycle paths
- Integrates FPGA Vendor checks

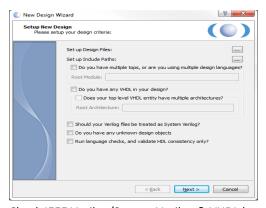
Why Analyze RTL™

FPGAs routinely have millions of gates with memories, transceivers, third party IP and processor cores. Problems can be time consuming and complex to debug in the lab and through simulations. Designers need verification tools that can run before simulation, before synthesis, and definitely before burning chips in the lab, that can identify problems quickly to reduce their verification and debug time.

Features of Analyze RTL™

With Analyze RTL™, designers can

 Get effective and meaningful results quickly with tool Setup Wizard



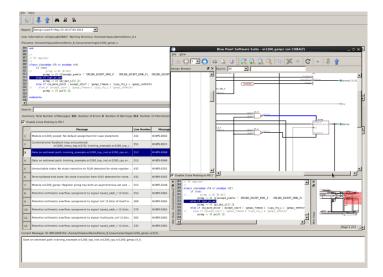
- Check IEEE Verilog/System Verilog & VHDL language specification compliance and syntax
- Configure checks along with standard checks, STARC, RMM, and Xilinx UltraFast

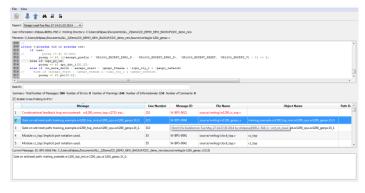
- Use GUI to streamline debug; integrated RTL,
 Schematic, and message viewer
- Use easy debug message sorting, filtering and waiving to pinpoint problems
- Automate flow with Command Line Interface (CLI), and re-usable message waiver file

Identify Design Issues Quickly

The Visual Verification Environment enables Analyze RTL™ users to debug design issues quickly using intelligent sorting and message filtering.

- Low Noise
- Check customization for specific design style
- Easy setup
- Waiver migration

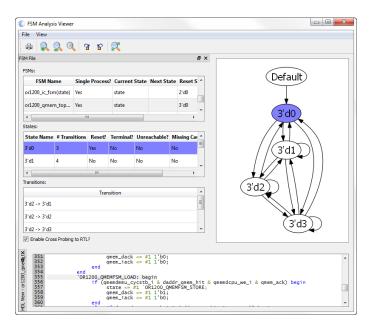




Finite State Machine Analysis

Rather than writing exhaustive simulation test benches to validate their finite state machines (FSM), designers can use the FSM analysis capability within Analyze RTLTM. With minimal effort, designers can

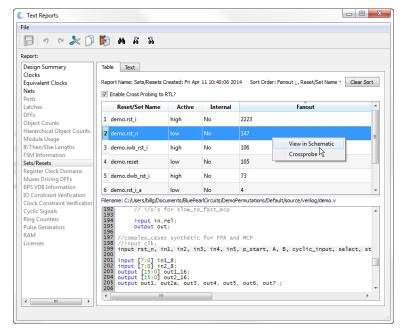
- Extract FSMs from their RTL
- Find dead or unreachable states
- Generate easy to read bubble diagram to better visualize FSM



RTL Checks for High Speed Designs

It is important to find as early as possible RTL coding that prevents the design from getting desired speed. FPGAs, because of their more constrained fabric than ASIC, certain type of structures causes slow down. Rather than wait for synthesis or static timing analysis results, Analyze RTLTM users can easily identify

- High fanout nets
- Deep nested "if-then-else" statements
- High levels of logic paths
- Reset methodology, Async/sync



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