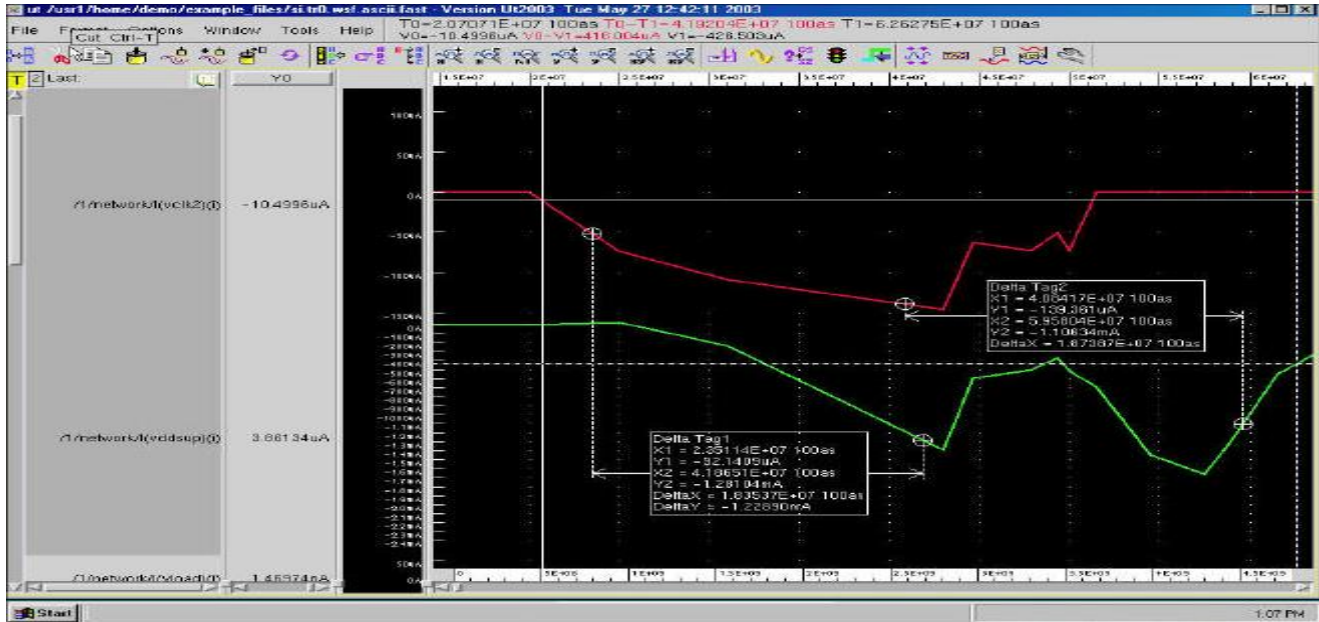


# vWave – Universal

*Complete features for both analog and digital waveform viewing on Linux, now runs native on Windows*



**The only universal tool that provides a complete set of features for both analog & digital waveform viewing:**

- EDA's only universal waveform display, for Native Windows and Linux, Centos 5, 6, 7, Ubuntu
- Provides a complete set of both Analog and Digital functions and features
  - Arithmetic Functions
  - Trigonometry Functions, FFT, DFT
  - Integrate/Differentiate Functions
  - Filter, Elliptic, Bessel, Butterworth
  - Chebyshev, FIR, IIR, etc.
  - Frequency, Jitter, Period verses Time
- Perl and Python Scripting
- File Compression up to over 1000x
- Can be run in mixed mode with Verilog, VHDL, and SystemVerilog, SVAssertions
- Supports: HSpice, HSPICE, PSpice, SmartSpice, NanoSim, UltraSim, FineSim, Spectre, HSPICE, Eldo, GridSim in all formats
- The EDA industry's only complete tool for analog, digital and mixed-mode designers, is also the easiest to use

**Veritools**

**Download vWave from our web site: [www.veritools.com](http://www.veritools.com)**

330 Lunada Drive, Los Altos, CA 94022; phone: (650) 533-5595; e-mail: [schop@earthlink.net](mailto:schop@earthlink.net)

# **vWave is the only universal and the only complete waveform display and analysis tool for analog, digital and mixed analog-digital designs**

## **vWave (Undertow)-Universal**

**vWave-Universal runs native on Windows and on Linux. This makes vWave is the only universal waveform display tool, for virtually all analog and digital simulators.** Very fast PLI/VPI routines are also available to support almost all digital simulators including Synopsys VCS, Cadence NCSIM, Mentor Modeltech, and many others and allow for signal file compression of thousands of times. API routines are also available to provide direct output of highly compressed utF files already support almost most widely used analog simulators including HSpice, FineSim UltraSim, GridSim and many others. Directly reading the simulators native output is also available for file from Synopsys HSpice, Mentor Eldo, Cadence Specter and SmartSpice.

This software is targeted at users with mixed analog/digital designs and users who want to bring in any combination and an unlimited number of signal files from these simulators at the same time. Included in this software are hundreds of functions for digital designers and several hundreds of functions for analog designers including:

A complete set of Analog Arithmetic

Functions including:

- Trigonometry Functions, sin, tan, etc.
- FFT, DFT
- Integrate/Differentiate Functions
- Filter, Elliptic, Bessel, Butterworth, Chebyshev, FIR, IIR, etc.
- Frequency, Jitter, Period verses Time

vWave supports Perl, TCL, and Python scripting.

Veritools also provides:

## **VeritoolsDesigner-Universal**

**VeritoolsDesigner adds to vWave a complete RTL source code debugging environment for Verilog, SystemVerilog, VHDL, with the following windows;**

**Unlimited waveform windows, Source Code debugging windows, schematic windows, control flow graph windows and state diagram windows** with automatic state diagram extraction from the source code.

## **VeritoolsVerifier-Universal**

VeritoolsVerifier adds to VeritoolsDesigner a complete set of tools to allow verification engineers to debug their SystemVerilog Assertions. Included is a standalone SystemVerilogAssertion Simulator, and SVA analyzer, so user can see the color-coded results for their assertions, a “what if window” so users can not only see the exact part of the assertion that is causing any failing assertion to fail evaluation, but can use edit window to modify the part of any assertion that was failing assertion evaluation and then instantly retest the modified assertion. Users can do this an unlimited number of times. This software also includes automatic coverage and result analysis tools so users can quickly see what coverage they are getting with their assertions. Coverage results are generated for each and every simulation with no slow-down in simulation speed.

**vWave is the world's only universal waveform display tool for analog, digital and mixed-mode designs.**

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