"CALIPER"

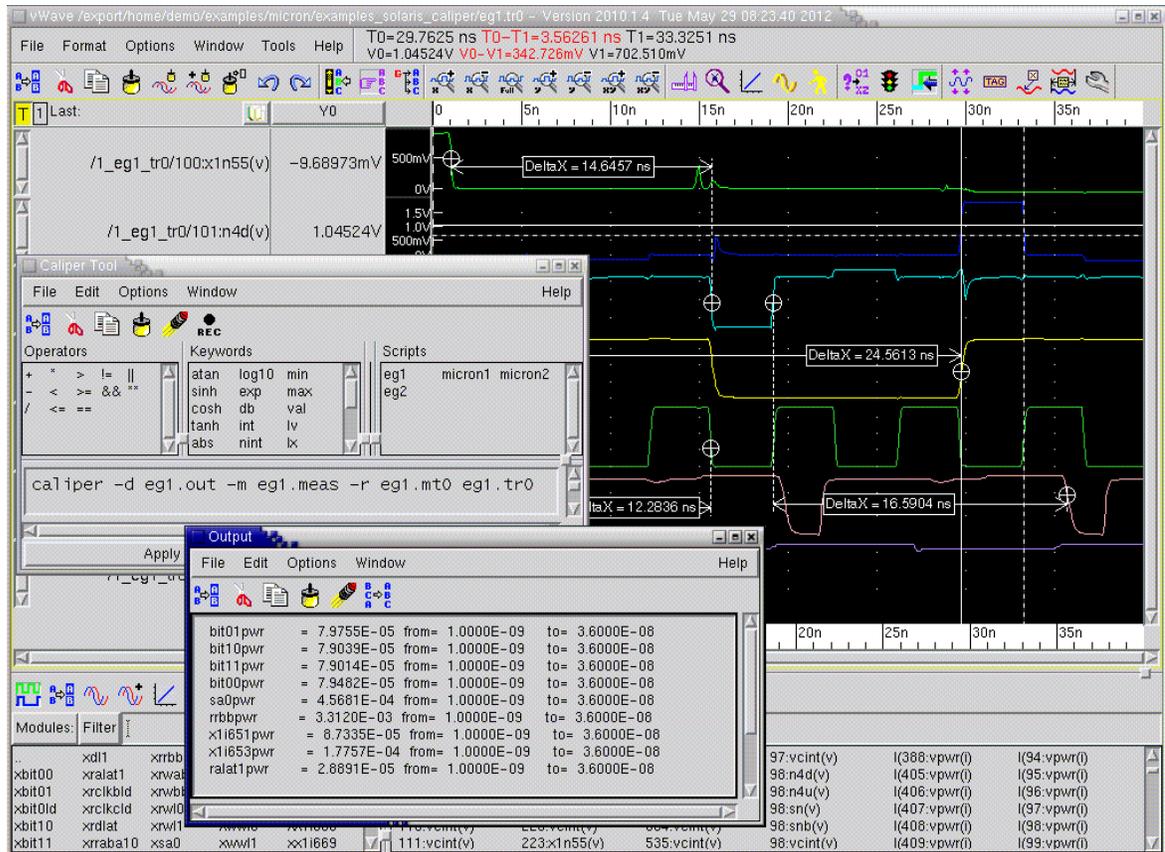## *A very fast batch-interactive tool for evaluating HSpice measures scripts*

A tool to provide high speed evaluation of HSpice measures scripts:

- **Re-run HSpice measure scripts with no re-simulation required**
- **Re-run HSpice measure scripts an unlimited number of times using existing waveform files**
- **Very High Speed File Loading**
- **Very High speed measure calculations**
- **Includes measure operators +, -, /, *, <, > , <=, =>, !=, &&, ||.**
- **Includes measure functions atan, sinh, cosh, tanh, abs, sqrt, pow, log, log10, exp, db, int, nint, sgn, sign, min, max, val, |v, |x, v, i**
- **New internal data base for 3 X speed up**

Plus complete Set of Analog Functions

- o **Arithmetic Functions**
- o **Trigonometry Functions, FFT, DFT**
- o **Integrate/Differentiate Functions**
- o **Filter, Elliptic, Bessel, Butterworth**
- o **Chebyshev, FIR, IIR, etc.**
- o **Frequency, Jitter, Period verses Time**
- **Perl Scripting**
- **File Compression up to over 1000x**
- **Significantly reduces your EDA tool costs**

Veritools

Tools for Analog and Digital Power Users

Caliper is both a batch and interactive tool for calculating HSpice measures without having to re-run HSpice simulation.

The Caliper calculator include all of the measure operators +, -, /, *, <, > , <=, =>, !=, &&, ||.

The Caliper calculator includes all of the standard measure functions, atan, sinh, cosh, tanh, abs, sqrt, pow, log, log10, exp, db, int, nint, sgn, sign, min, max, val, |v, |x, v, i

The Caliper software will execute externally using standard Perl scripting or internally using built the built in measure calculator.

COMING – Caliper will work in the future with the standard output or utF files from any analog simulator, including HSIM, FineSim, UltraSim, GridSim, and Eldo.

Caliper is integrated into the Veritools vWave software and allows a seamless operation with all of the other tools that are a part of vWave, the powerful analog and digital waveform viewer and

vWave is powerful waveform viewing and analysis environment.

File compression 650-1,000 X: The latest vWave PLI now offers, 650-1,000 X compres- sion for waveform files directly generated from the analog and digital simulators via API/PLI/VPI/VHPI with no slow down in file reading speeds.

Waveform Window: Instantly display wave- forms from even very large (20 gigabytes and above in size) waveform files. View any num- ber of files, both analog and digital with an unlimited number of waveform panes.

Trace Input Cone, Control Flow Graph: vWave allows users to trace signal values in their designs schematically, even through multiple levels of FFs . Users can also display a complete control flow graph of their RTL design, with all FFs shown and the time selected signal values passed through these FF's. These signal values can automatically traced back to the logic in the design where the error condition occured.

Powerful new Scripting capability based on PERL/TK and TCL/TK: The vWave scripting language is based on the CAD industry stan- dard scripting languages, PERL/TK and TCL/ TK. Users can write scripts which can be used for either digital or analog analysis. Scripts can be run interactively or in batch mode using any of the Veritools databases.

The world's most powerful tool for analog and digital and mixed-mode designers