

iWave™

Simulation Waveform Viewer and Analyzer

Highlights

- Full-featured analog and mixed signal simulation waveform viewer and analyzer
- Supports multiple simulation formats including tr#, FSDB, MSO and VCD, PSF etc.
- Fast speed in reading large size of simulation data
- Fast waveform comparison
- Supports commonly used calculation tools
- Supports Eye Diagram and Histogram display and analysis
- Supports A-D and D-A conversions
- Support TCL scripting

iWave is a visual analog and mixed-signal waveform analysis tool, providing users with simulation results display, measurement, calculation, edit and save operations. Also supported are, multi-panel waveform display, waveform stack, waveform conversions (A-D, D-A) and wave comparing operations.

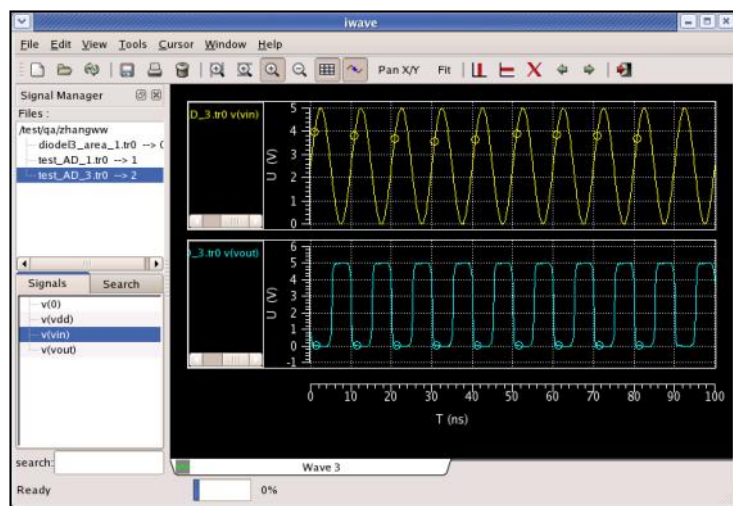


Figure 1 iWave Waveform Viewer

Key Features

A-D and D-A

As shown in figure 2, analog waveforms can be converted to single-bit or multi-bit logic waveforms using user-specified threshold criteria. Similarly, logic waveforms can be converted to analog waveforms based on user-specified analog levels using either fixed-rate sampling or value transition sampling.

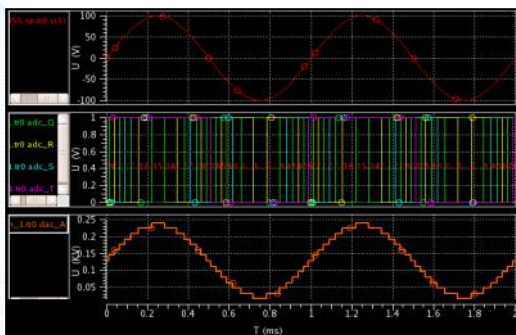


Figure 2 A-D and D-A

Measurement tools

- iWave provides dynamic measurement capability updated with cursor movement
- Measure Tools :
 1. General: Width, Difference, Data (X, Y), Ydiff etc.
 2. Time Domain: Raise/Fall time, Frequency, Delay etc.
 3. Frequency Domain: Highpass, Lowpass and Stopband
 4. Statistics: Mean, Std_dev, Yield etc.
 5. Level: TopLine, BaseLine, Amplitude etc.
 6. S Domain: Frequency Value etc.

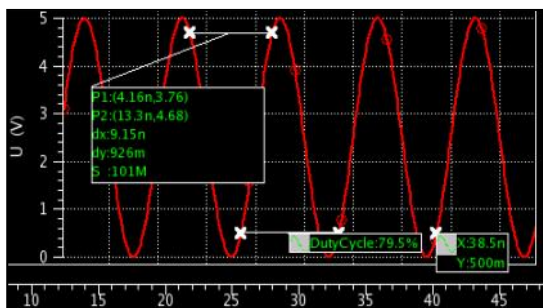


Figure 2 iWave Measure Tools

Eye Diagram

iWave's eye diagram capability allows users to easily create a folded eye diagram from complex waveforms. The eye diagram is constructed by automatically extracting the clock cycle, or by referring to an ideal clock. Figure 4 shows a typical eye diagram with measurement tools used.

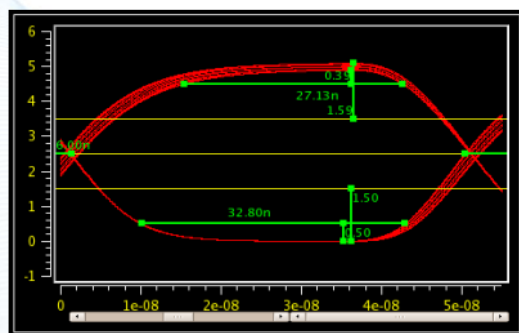


Figure 4 iWave Eye Diagram

Calculator

iWave supports below computing functions:

- Basic type. +, -, ln, sqrt etc.
- Trig type. sin, cos, tan etc.
- Wave type. max, xmax, avg etc.
- Mag type. real, imag, phase etc.

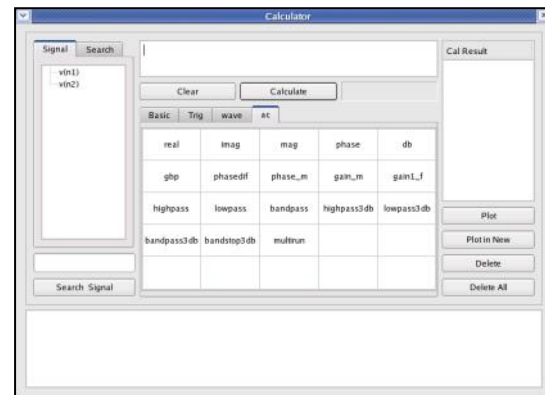


Figure 3 iWave Calculator

Support Platforms

- 32-bit or 64-bit Linux

System Requirements

- 8G RAM