



Cogita Rule the Bugs

Get your first-time-right silicon with our Cogita EDA simulation-debug solution.

Cogita is a simulation debugging platform providing data screening, processing, diagnostics, and visualization that targets ASIC and FPGA verification.

Cogita analyzes massive amounts of simulation/emulation data from textual log files and waveform databases in order to provide a clear visual root cause analysis. Engineers are able to quickly comprehend their most complex and time-consuming scenarios and failures.

By leveraging inherent human visual analysis, sophisticated machine learning algorithms, and unified data structures, the debug process is radically accelerated. Cogita allows us to reveal bugs that would otherwise be missed, facilitating first-time-right silicon.



www.vtool.com

User Benefits

Predictable and faster verification convergence.

With Cogita, engineers are able to predict the end of the project, thus avoiding the often prolonged and unproductive last mile of the verification cycle.

Verification quality metrics beyond code and functional coverage.

Cogita provides effective metrics for verification quality, adding a layer of certainty beyond the RTL code coverage and the testbench functional coverage, ensuring the first silicon success.

Bettering team competency.

Cogita accelerates debugging using a clear, repeatable methodology, enabling users to learn from one debug cycle to the next and to share information effectively with their team.

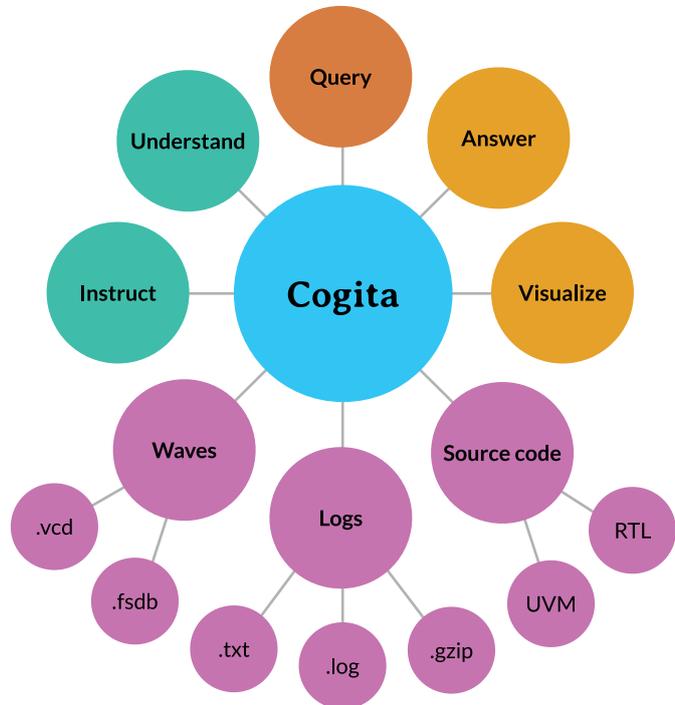
Contact the Vtool team
to schedule a Cogita demo



Debug Process with Cogita

Cogita is built for simplicity and clarity, turning millions of textual lines into a visual scenario that is better comprehended by human perception.

There are four sides to every analysis process within Cogita. Users can run through them while exploring the data and finding bugs.



Load data

Cogita is built to store and process simulation data en masse, such as log files of all sorts, waveform and coverage databases, and UVM source code.

Instruct and Understand

Cogita enables users to provide hints in order to understand the input data and to make relations and correlations between events, packets, transactions, log files, and waveforms. The result is a smart database that can be queried and visualized later on.

Create queries

Once simulation results are intelligently stored in Cogita's database, users can query the data in order to explore it, understand complex simulation scenarios and regression patterns and visualize the results.

Get Answers. Visualize

Cogita provides its answers in a variety of visual forms tailored to an easy understanding. Cogita is equipped with powerful automatic algorithms that help users detect bugs effortlessly.

Once a debugging cycle is successfully completed, Cogita enables the user to reuse its insights and conclusions for future debugging use.