Incisive Management

Automated verification management with extended language and simulation support

Part of the Cadence® Incisive® functional verification platform, Incisive management automates the verification management process and analyzes data, from planning to closure. Tailored to your needs, the Incisive platform offers two management products: Design Team Manager and Enterprise Manager. With Incisive management, you benefit from optimal resource utilization and a faster, more predictable path to verification closure.

Incisive Management

Incisive management is the industry's first solution that automates the management of complex verification projects and guides the verification process, from goal setting to closure.

Tailored to your specific needs, Incisive management offers two products: Incisive Design Team Manager and Incisive Enterprise Manager.

Used in conjunction with the Incisive platform, Incisive management automates the verification process at the block, chip, system, and project level, so all activities are managed from specification to closure. It automates the deployment of simulation runs, analyzes failures and coverage data, and controls the steps toward closure. Incisive management automates the tasks that would otherwise require intensive human interaction, custom-software development, or that were simply impossible to achieve manually.

With Incisive management, verification teams benefit from optimal resource utilization and achieve predictable verification closure of highly distributed, multi-level verification projects. It enables engineers to deploy a metric-driven process based on the coverage-driven verification methodology.

Incisive management starts from an executable specification of functional requirements, a verification plan, and coverage goals. It provides the basics of regression session dispatch, management, and failure analysis. It then filters and analyzes the data, annotates and correlates results against verification runs, and displays various views of progress toward closure.

Incisive Enterprise Manager provides additional features important to geographically dispersed teams for organizing block- and system-level simulation suites, managing volumes of data, and making rapid decisions using advanced analysis engines and reporting mechanisms.

Benefits

- Drives the complete verification process from planning to closure

- Shortens overall simulation debug time

- Manages and deploys thousands of simulations

- Improves simulation runs and directs resources to achieve total coverage

- Defines milestones and measures progress toward closure

Features

Executable verification plan

Incisive management drives the verification process right from the planning stage by helping the team capture the verification objectives from the specification and reporting progress.

Verification scenario management

Incisive management takes incredibly complex tasks that once required intensive human interaction and automates them. Engineers can now spend much less effort tracking and reporting on coverage status and increase the number of simulations they can run daily.

Failure analysis

Incisive management simplifies the overall debugging effort and shortens simulation-failure debug time. It separates design failures from simulation failures, sorting and grouping these failures for easy selection and action. It then identifies the least costly simulation to exhibit the failure and the optimal case for repeated debugging.

Total coverage analysis

Incisive management provides analysis features that help users improve their simulation runs to achieve total coverage. Total coverage incorporates all coverage metrics commercially available, including functional, HDL code, and assertion coverage. Incisive management leverages Incisive Enterprise Specman® Elite and Incisive simulation to provide a total coverage view of every project. There is also a coverage and assertion interface (CAI) to import external coverage metrics and assertions.

By bringing all of this data together, Incisive management makes it possible for teams to easily view coverage metrics from a number of vantage points, pinpoint the holes, and re-direct verification to cover those holes.

An essential component of verification process automation

Incisive management is a critical element of the Cadence verification process automation solution, which simplifies the complex process of verification and addresses customer needs at both the engineering and project levels. Incisive management offers a project-level solution that increases predictability of verification closure and optimizes utilization of resources.

Incisive Management Products

Incisive Design Team Manager

- Drives verification closure using incrementally developed assertion and test lists plans
- Automates deployment and management of verification jobs
- Captures all failures and quickly prioritizes bugs
- Measures and reports all coverage sources from an Incisive simulator
- Supports other simulators and any testbench language Incisive Enterprise manager

Incisive Enterprise Manager

- Offers advanced team planning (for all specialists) and success metrics
- Adds unique support for Incisive Enterprise Specman Simulator
- Includes Specman Elite functional coverage capabilities
- Delivers advanced coverage hole analysis and reporting
- Supports other simulators running with Specman Elite

Cadence Services and Support

- Cadence application engineers can answer your technical questions by telephone, email, or Internet—they can also provide technical assistance and custom training
- Cadence certified instructors teach more than 70 courses and bring their real-world experience into the classroom
- More than 25 Internet Learning Series (iLS) online courses allow you the flexibility of training at your own computer via the Internet
- Cadence Online Support gives you 24x7 online access to a knowledgebase of the latest solutions, technical documentation, software downloads, and more

cadence®

Cadence is transforming the global electronics industry through a vision called EDA360. With an application-driven approach to design, our software, hardware, IP, and services help customers realize silicon, SoCs, and complete systems efficiently and profitably. **www.cadence.com**