DVT™

The Complete Development Environment for e and SystemVerilog

Benefits

♦ Complete your projects faster by easily reusing and integrating verification components.

♦ Increase the efficiency and productivity of your design and verification teams and reduce time to market.

♦ Save time by simplifying maintenance and debugging.

♦ Accelerate the learning curve and improve the quality of code writing both for beginners and advanced engineers.

♦ Control, understand, and analyze your projects from a higher perspective.

♦ Save license costs by reducing the number of dedicated tools you need to use.

The DVT plug-in is the first complete IDE for *e* and SystemVerilog that allows you to:

♦ Use advanced code editing features.

♦ Easily create and reuse code and project templates.

♦ Perform semantic search.

♦ Link simulation output with source code.

♦ Check methodology compliance.

♦ Inspect architecture through dynamically created UML diagrams.

♦ Automatically generate documentation.

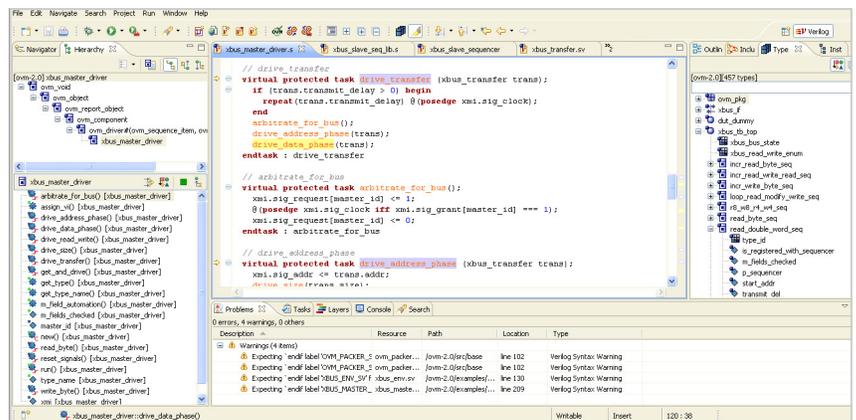♦ Track tasks and place reminders.

Increasing Verification Quality and Productivity

DVT™- Design and Verification Tools, an Eclipse-based integrated development environment (IDE), is a modern and powerful, yet easy to use programming platform for the *e* and SystemVerilog verification languages. It helps design and verification engineers who are not satisfied with the limitations of plain text editors such as *vi, emacs,* and *nedit* to easily read, write, and understand complex source code.

The DVT solution enables efficient code writing and simplifies the maintenance of reusable libraries and legacy code. It comprises a complete suite of tools and integrates with all major simulators, revision control systems, and bug tracking engines. As a result, the DVT plug-in allows design and verification teams to increase quality, efficiency, and productivity and helps to bring the next generation of technologies faster to market.

Combining Multiple Verification Tasks in a Single Window

The DVT plug-in is similar to well-known programming tools like *VisualC* and *IntelliJ*. A unified window combines the smart editor with the syntax checker, linter, class browser, methodology compliance checking, task tracking, dynamic UML diagrams, and more.

The DVT plug-in unified window

Engineers can use the editor's hyper-links, autocomplete, in-line documentation, semantic search, and smart-log viewer features. Therefore, they do not have to switch out from the editor to the simulator, browser or console and can stay focused on their code writing or verification work. As a result, the speed and quality of code development increase significantly.

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The DVT Plug-in Overview

The DVT solution is built on the powerful Eclipse platform, used by tens of thousands of engineers who program in Java, C++, Perl, Ruby on Rails, and others, and inherits the best features and practices collected into the platform core. In addition to these, the DVT plug-in includes several innovative features, which add significant value to the hardware design and verification domains.

Standard Features

♦ Errors indicated as you type

♦ Autocomplete

♦ Hyperlinks

♦ Class browsing

♦ Code folding

♦ Semantic search and references

♦ Current scope

♦ In-line documentation

♦ Code templates

♦ Export HTML documentation

♦ Task tracking

♦ Source formatting

♦ Spell checking

♦ Revision control integration (CVS, ClearCase, Subversion and others)

Verification Domain Innovative Features

♦ **Layers view** - shows all the places where a *struct, method,* etc. is extended and allows quick navigation among them.

♦ **Macro expansion** - allows the visualization of a piece of code with macros after preprocessing.

♦ **Macro errors tracing** - enables the inspection of errors inside nested macros.

♦ **Smart log viewer** - permits easy understanding and navigation of the simulation output using colors and hyperlinks.

♦ **Dynamic class diagrams** - enables the creation on the fly of custom UML diagrams by specifying relevant entities and connections.

♦ **Checks view** - shows all the checks in your code.

♦ **Coverage view** - displays the coverage definitions in your code.

Integration and Compliance

The DVT plug-in also offers:

♦ **Integration with major simulators** - enables to easily invoke the simulator, with or without existing scripts, and browse the simulation output. It also offers effortless access to the simulator documentation.

♦ **Linting and methodology compliance-checking** - enables to perform code and architectural checks, collect statistics about the verification environment, and export HTML reports. The reviewer can easily jump directly to the problematic source code, fix it, and reapply customized checks.

Technical Support

AMIQ assists you with the DVT plug-in installation and training. The technical support team is available to promptly answer your questions and to work with you to determine your needs.

Your requirements and feedback are important. Whether you are looking for technical support or new features and enhancements to improve your design and verification flow, the AMIQ team strives to answer your requests in a timely manner.

Get Started Now

Our team is ready to help you get started using the DVT plug-in today.

Contact AMIQ's **Support & Evaluation** team by sending an email at ***etools@amiq.ro*** to request one or multiple trial licenses.

You will receive free limited-period licenses for the full version of the latest release of the DVT plug-in. AMIQ will assist you with the installation and provide you with technical support.

Contact AMIQ

Sales: sales@amiq.ro
Support & Evaluation: etools@amiq.ro

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