atollic

Embedded Passion

Ensure coding standards compliance with professional code inspection!

TrueINSPECTOR

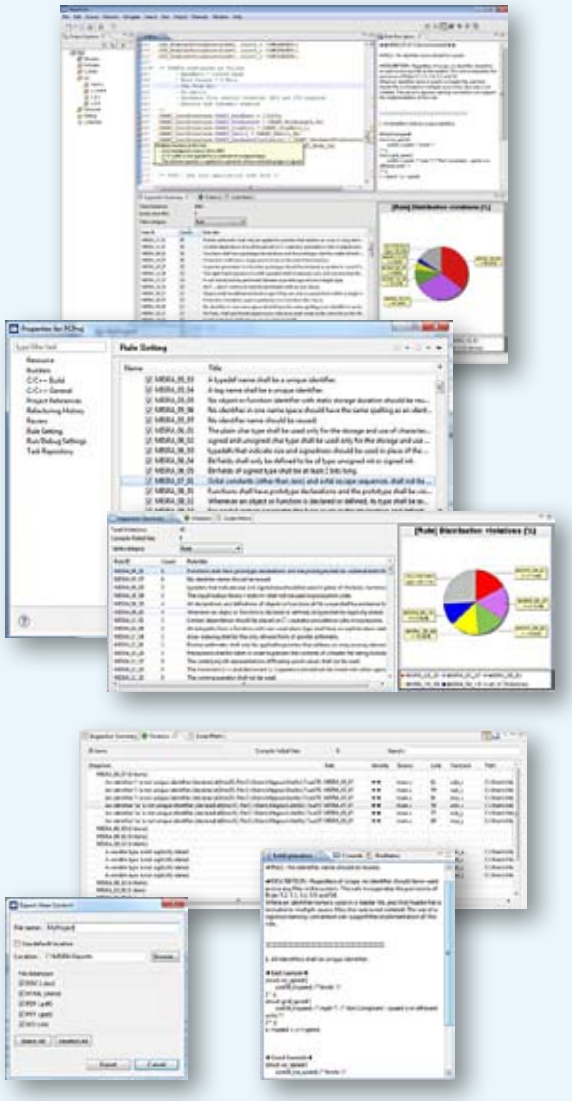
Atollic TrueINSPECTOR® is a tool for professional static source code analysis. It helps you find potential bugs automatically! TrueINSPECTOR® performs coding standards compliance control and generates software metrics, providing valuable insights on your code. The source code is validated against a database of formal coding standards. Coding constructs that are known to be error-prone are detected automatically. This reduces the number of errors as well as development time and cost, and improves the quality of your software product.

MISRA®-C:2004* is a coding standard for the C programming language. It identifies a subset of the C language that improves safety, portability, reliability and maintainability. TrueINSPECTOR® performs MISRA®-C:2004 checking, automatically verifying source code compliance and pointing out code lines that violate any of the coding standard rules. TrueINSPECTOR® also generates software metrics, including cyclomatic values of code complexity. By rewriting complex code sections into a less complex coding style, you improve maintainability and reduce the risk of errors. TrueINSPECTOR® generates reports that can be exported in Microsoft® Office®, HTML and PDF formats.

* *MISRA® (The Motor Industry Software Reliability Association) promotes best practice in developing safety-critical systems in road vehicles and other types of embedded systems.*

Summary – Static source code inspection

What is it?	Static source code inspection is the process of analysing the source code of a program, in order to find potential errors automatically. Code metrics and code complexity analysis are often included.
Why do it?	By performing static source code inspection, development, testing and maintenance costs are reduced, and software quality is improved.
How does it work?	A tool build a parsing tree of the application, analyze the meaning of the code, and verify the code constructs using rules from a coding standard database. Code metrics and complexity measurements are gathered during this process.



Read more at www.atollic.com

A complete set of world class tools for development and testing

More tools for professional development – from code to market.

The embedded systems development tool for the next decade!

TrueSTUDIO

Atollic TrueSTUDIO® is the premier C/C++ development tool for embedded systems development, with its unrivalled feature-set and unprecedented integration. In addition to the state-of-the-art editor, the optimizing C/C++ compiler and multiprocessor-aware debugger, Atollic TrueSTUDIO® also includes features for team collaboration, graphical modeling and design, code review and review meetings, and much more.

Measure test quality with dynamic execution flow analysis!

TrueANALYZER

Atollic TrueANALYZER® is a tool for professional code analysis. The product performs dynamic execution flow analysis and provides rigorous code coverage measurements. Atollic TrueANALYZER® support many types of code coverage analysis up to the level of Modified condition/decision coverage (MC/DC-level) as required by RTCA DO-178B (Level A) for flight-control-system software.

Get superior software quality with embedded test automation!

TrueVERIFIER

Atollic TrueVERIFIER™ is a tool for advanced test automation. The product performs source code analysis and auto-generate unit tests that exercise an extensive set of different execution paths. The tool download the test cases and run them in a target board with execution path monitoring. Finally, Atollic TrueVERIFIER™ visualize the test results and the achieved code coverage.

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