



Atollic release Atollic TrueANALYZER for dynamic test- and code coverage analysis of embedded systems

Jonkoping (Sweden), 18th of January 2011 – Atollic AB today announced the release of Atollic TrueANALYZER®, a professional tool for dynamic test- and code coverage analysis of embedded systems software.

Atollic TrueANALYZER® provides dynamic analysis of the execution flow of applications running in an embedded target board, thus providing exact and numerically quantifiable values on the test- and code coverage. This is used to measure the quality of testing procedures, and to detect the change of test coverage after the source code or the test procedures have been modified.

Test- and code coverage analysis can be performed on many different levels in increasing complexity, from the simple statement coverage that sometimes is found in standard debuggers, up to the very stringent Modified condition/decision coverage (MC/DC). Testing of safety-critical systems must often successfully fulfill MC/DC-level coverage. This for example, is required by RTCA DO-178B for testing of the most safety-critical of aircraft software - “Level A” code.

Atollic TrueANALYZER® performs many types of coverage analysis, up to the stringent level of MC/DC coverage:

- Statement coverage
- Function coverage
- Function call coverage
- Branch coverage
- Modified condition/decision coverage (MC/DC)

Atollic TrueANALYZER® instruments the application automatically, and downloads it to the target board using a standard JTAG probe. Atollic TrueANALYZER® then run the application with full execution-path monitoring in the target board, i.e. it detects all the details on execution paths and expression values that affect branch decisions.

During test sessions, the environment can interact with the board to affect the execution paths (users pressing buttons, sensors reading data, or other computers interact over a communications channel, for example). The Atollic TrueANALYZER® operator can upload analysis results at any time, which are then presented for the whole project or per function. The integrated source code editor even visualizes what source code lines have been executed or not with color annotations.

Finally, analysis results can be exported in comma separated value (CSV) format for off-line analysis or archiving.

Atollic TrueANALYZER® integrates seamlessly into the Atollic TrueSTUDIO® C/C++ IDE, thus creating a highly efficient development environment for embedded developers. Additionally, Atollic TrueANALYZER® works in parallel with the Atollic TrueINSPECTOR® (static source code analysis) and Atollic TrueVERIFIER™ (test automation in embedded targets) products.

All-in-all, the Atollic products offer powerful solutions for embedded development, with an unrivalled feature-set and unprecedented integration. With the new products for code quality analysis and test automation, embedded developers get a uniquely powerful arsenal of tools to succeed with the most complex of projects.

For more information about Atollic products, visit www.atollic.com.

About Atollic

Atollic provides professional and highly integrated software development and testing tools to the global embedded systems market. Atollic cooperates with many of the world's largest semiconductor manufacturers and has many partners in related fields. The company's products are distributed via an extensive international distributor network in over 30 countries. Atollic also offers expert software development services, primarily in the automotive, aerospace, defense, industrial and consumer markets. For more information on Atollic, please visit www.atollic.com.

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