Get superior software quality with embedded test automation!

TrueVERIFIER

Atollic TrueVERIFIER™ is a professional tool for advanced test automation that helps you find bugs automatically. By using Atollic TrueVERIFIER™, you can easily improve the quality of your software product!
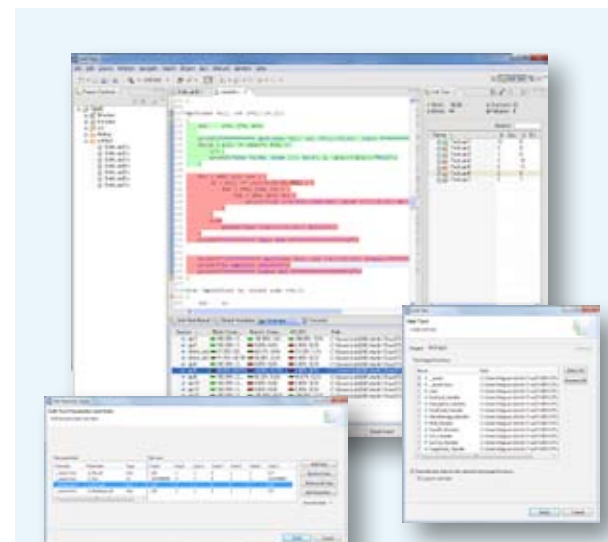
Atollic TrueVERIFIER™ performs source code analysis and auto-generates unit tests that exercise an extensive set of different execution paths. The tool downloads the test cases and runs them in a target board with code coverage monitoring. Finally, Atollic TrueVERIFIER™ visualizes the test results and the achieved test/code coverage.

Atollic TrueVERIFIER™ provides the following features:

- Analyzes the source code and automatically finds out how a C-function needs to be tested, to drive as many combinations of important execution paths as possible.
- Enables user to add/edit/remove test suites and test cases
- Auto-generates unit test source code in the C-language
- Auto-compiles and auto-downloads (JTAG) the unit tests
- Auto-runs the unit tests in the target board with execution flow monitoring
- Users can instrument the test cases for advanced failure detection
- Uploads the test results as well as test and code coverage
- Visualisation of test results and Block-, Branch- and Modified condition/Decision coverage

Summary – Test automation

What is it?	The means by which a software tool analyse the source code of a program, generates suitable test cases and run them automatically.
Why do it?	With auto-generated test cases, the source code and unit tests are always synchronized, test cases cover a much larger set of potential execution paths, and good testing becomes much easier and faster.
How does it work?	A tool analyze an application, generate test cases, and execute them with execution-path monitoring. Once a test session is completed, test results and test coverage information is presented to the developer or tester.

Example code to be tested

```
int MyFunc( char x )
{
   if( x < 50 )
      return 0;
   else
      return 1;
}
```

Important parameter values are found by analysing the code

Auto-generated unit tests (function calls)

```
MyFunc( -128 );   Test minimum value of datatype

MyFunc( -2 );
MyFunc( -1 );
MyFunc( 0 );      Test values around 0
MyFunc( 1 );
MyFunc( 2 );

MyFunc( 49 );
MyFunc( 50 );     Test values around 50
MyFunc( 51 );

MyFunc( 127 );    Test maximum value of datatype
```

Read more at www.atollic.com

A complete set of world class tools for development and testing
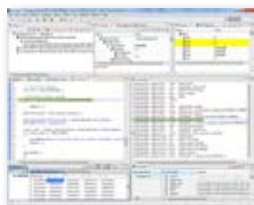

More tools for professional development – from code to market.

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.

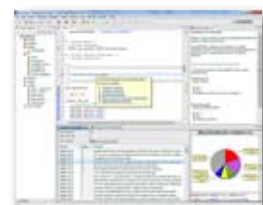### Measure test quality with dynamic execution flow analysis!

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.

Ensure coding standards compliance with professional code inspection!

TrueINSPECTOR

Atollic TrueINSPECTOR® is a tool for professional code analysis. The product performs static source code inspection and generates software metrics. The source code is validated against a database of formal coding standards, and coding constructs that are known to be error-prone are detected automatically. Atollic TrueINSPECTOR® supports the MISRA®-C:2004 coding standard.

MISRA is a registered trademark of MIRA Ltd, held on behalf of the MISRA Consortium.

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

[Atollic Inc.](#):
[TV-WIN-R1](#) [TV-WIN-R3](#) [TV-WIN-R6](#) [TV-WIN-R12](#) [TV-TX-WIN](#) [TV-WIN-SUA](#) [TV-WIN-NVS](#)