Tessy 2.9

Advantages

- **Systematic test case design** using the classification tree method: Intuitive, easy to learn graphical representation of test specifications.
- **Reproducible tests** based on given input data and expected results
- Automatic test driver generation, **test execution on the target** and evaluation of test results.
- **Standardized test reporting** and documentation of the test
- **Powerful regression testing**: An interface browser tool provides comfortable interface assignment which allows automatic re-usage of test data.
- **Plug&Play installation** for the most common target environments, compilers and microcontrollers
- Test driver in **client/server technology** allows unlimited number of test cases and **minimum code/data requirements** on the target system.
- **Essential to get certifications**** according to IEC 61508, DO-178B, and others.

System Requirements:
Microsoft Windows 2000 / XP / Vista / 7

Microcontroller:
78K0, 68k, ARM, C51, C166, XC166 (VX), CR16, dsPIC, DSP568E, FFMC16/32, HCS08, HCS12, M16C/32C, MSP430, PIC16, PIC18, PPC5xxx, R32C, SH, Tricore, TMS 320, TMS 470, ST7, Star12, S12X, V850, x86

Compiler:
ARM, Cosmic, DiabData, Fujitsu, Green Hills, Hi-TECH, HighTec, IAR, Keil, Knudsen, Metrowerks, Microchip, Microtec, National, Tasking, TI

Debugger/Emulators:
Codewarrior, Crossview, C-Spy, HEW, HiTOP, MPLAB, MULTI 2000, PD30/308, PICE-MC, Softune, TI CCS, TRACE32, UDE, winIDEA, WIND RIVER.

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Automated Target Testing

The test system Tessy* offers **automated module testing** of C and C++ code directly on the target system using standard debugging technology. It supports the whole unit testing cycle and works transparently **on all supported target debuggers**.

Tessy includes the **Classification Tree Editor** (CTE*) for Test Case Specification. CTE has a direct interface to Tessy and allows to assign values for variables of the test object interface within the classification tree. You can export all test items and the assigned test data into the test database of Tessy.

Tessy builds up the complete test driver including the necessary module environment and controls the testing process. It allows **systematic and reproducible testing** in batch mode as well as step by step execution using all available debugging features of the target system. This enables really easy debugging with test data from previously failed test cases.
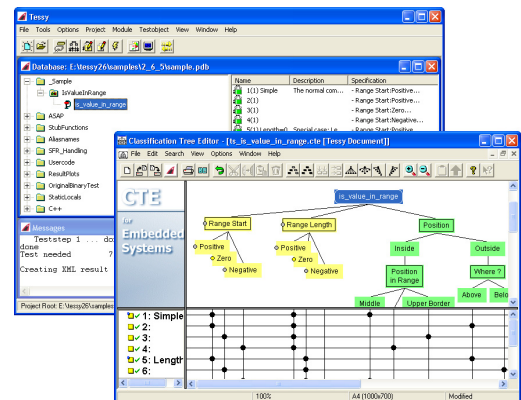
Tessy supports **C1, MCC, MC/DC coverage** measurement. The results of every coverage measurement can be reviewed in a coverage viewer in form of a flowchart.

Tessy analyzes the source code and **recognizes the usage of variables** and their respective types. The interface information is stored separately from the test data and expected values. This enables Tessy to use browser editors for interface settings and data input.

On interface changes (during **regression testing** of new builds), **test data may easily be re-used** after assignment of the changed to the old interface.

The **component test** feature within Tessy supports testing of several functions (representing the software component) that interact with themselves as well as with underlying called functions (of other components).

Test **reporting** is based on automatically generated XML result files to produce **customizable reports** in various formats, e.g. XML, HTML, Word, Excel, CHM.
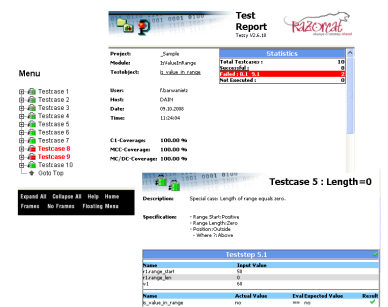
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