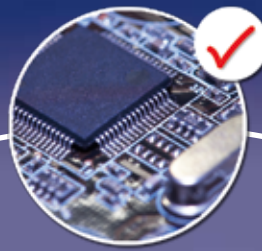
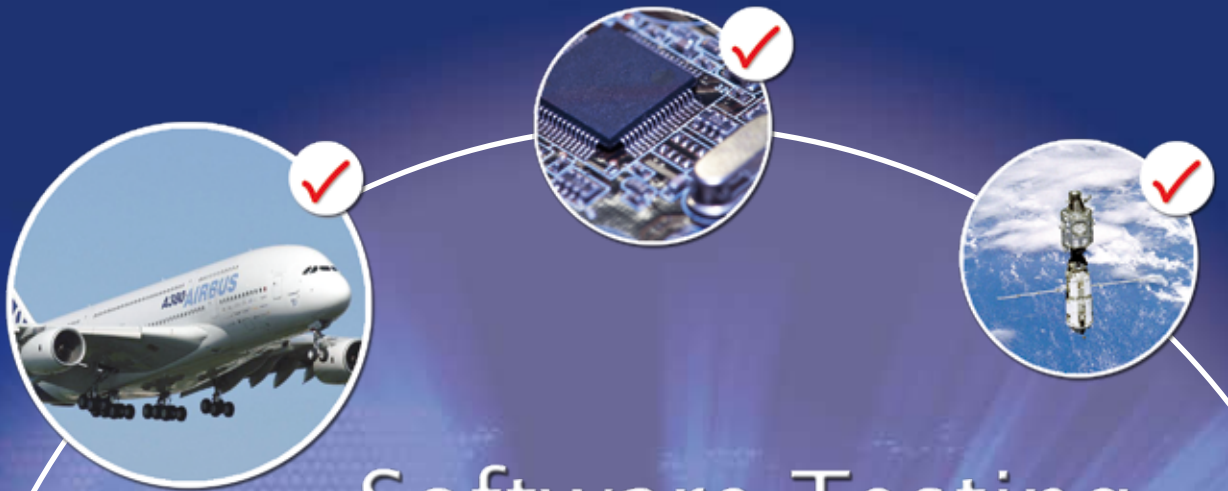


Verifysoft TECHNOLOGY



Software Testing Solutions for Productivity and Quality

- Automated Test Design™
- Static code analysis
- Complexity measurements
- Code coverage

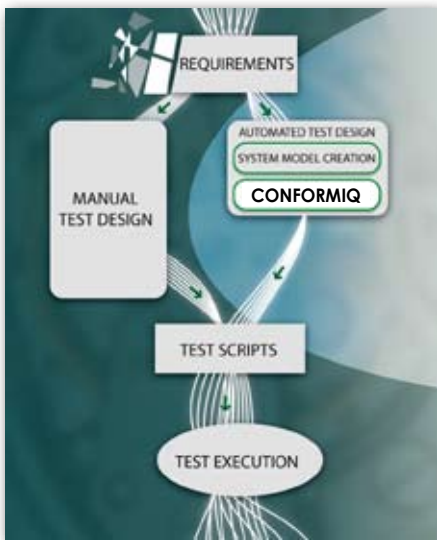




Conformiq Tool Suite™

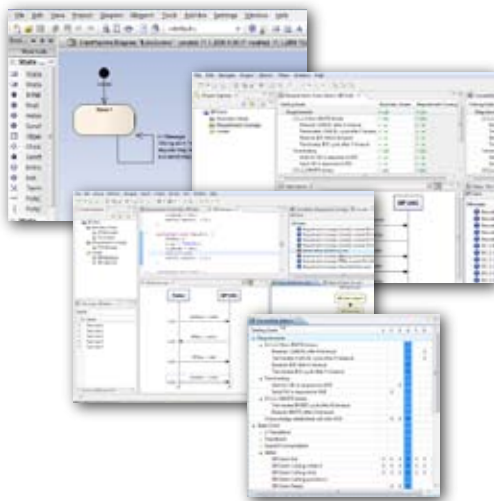
Conformiq Modeler and Designer

Conformiq Designer™ is a tool to automate the design of functional tests for software and systems. Conformiq generates software tests from high-level system models without user intervention, completes with test plan documentation and executable test scripts in industry standard formats. Automated Test Design™ with Conformiq Designer transitions customers from manual test design methods to the benefits of automated test design.



✓ Features

- ▶ Automatic test generation
- ▶ Validation of test results
- ▶ Easy importing of models (UML or text)
- ▶ Start with a simple model and build as you progress
- ▶ Information about traceability and coverage
- ▶ Can be connected to any system
- ▶ Plug-ins and open API
- ▶ Supports timing, data and concurrency
- ▶ Supports Java-like modeling syntax and UML
- ▶ Tests in TTNC-3, TCL, Java, C++, XML, Python and many other formats
- ▶ Shipped with modeling tool **Conformiq Modeler**
- ▶ Easy integration with existing design, modeling and Test automation tools



✓ Fields of Application

- ▶ Functional, system and acceptance testing
- ▶ Regression testing (autom. tests of daily builds)
- ▶ Integration testing (simulation of parts of a systems)

✓ Benefits

- ▶ Faster and better test design
- ▶ Higher test quality
- ▶ Higher productivity
- ▶ Easier test maintenance
- ▶ More test reuse

Current Practice without Conformiq



Current Practice with Conformiq



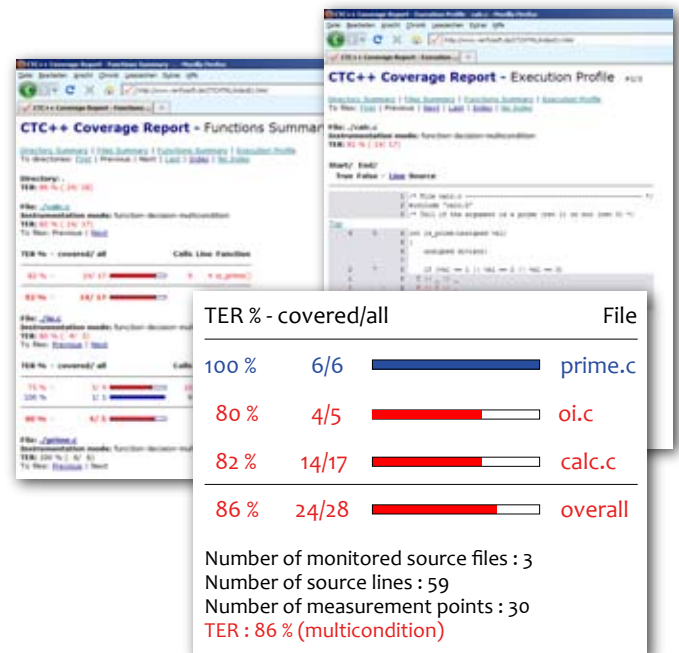
Testwell CTC++ Test Coverage Analyser

Code coverage for all coverage levels, all compilers, all embedded targets

Testwell CTC++ is a powerful and easy to use code/test coverage tool which shows the parts of code which have been executed (tested). The tool analyses on all coverage levels as required in “critical” projects and helps to obtain certifications i.e. DO178-B. “CTC++ for Java and C#” is an add-on that extends CTC++ to be able to also analyse software written in Java or C#.

✓ Code Coverage for all Coverage Levels

- ▶ Function Coverage
- ▶ Decision Coverage
- ▶ Condition/Branch Coverage
- ▶ Modified Condition/Decision Coverage (MC/DC)
- ▶ Multicondition Coverage (MCC)
- ▶ Can be used - even for the smallest - embedded targets
- ▶ Works with any compiler
- ▶ Very little overhead on size and execution speed
- ▶ Intuitive and easy to use
- ▶ Integration with many IDEs
- ▶ Output in Text, HTML and XML (execution profile, untested code, various reports for coverage levels, coverage summary, execution time)



✓ Verybench for CTC++

Verybench is a graphical front end for the tool **Testwell CTC++**. It enables its users to display code coverages performed by CTC++ graphically. It is also able to version snapshots of covered code, to compare those snapshots and to display or create reports of analyses or entire snapshots in several different output formats. Learn more about **Verybench** on the next page.



✓ Testwell CTA++

Testwell CTA++ (C++ Test Aider) is a unit test tool to white box test C++ code. The tool allows to test individual software components in a “stand alone environment” immediately after coding.



Testwell CMT++ and Testwell CMTJava

Code Complexity Measurement Tools for C/C++ and Java

Testwell CMT++ and **Testwell CMTJava** are easy to use tools to check the complexity of C/C++ code and Java projects. Testwell Code Complexity Measurement tools analyse even large code bases in few minutes.

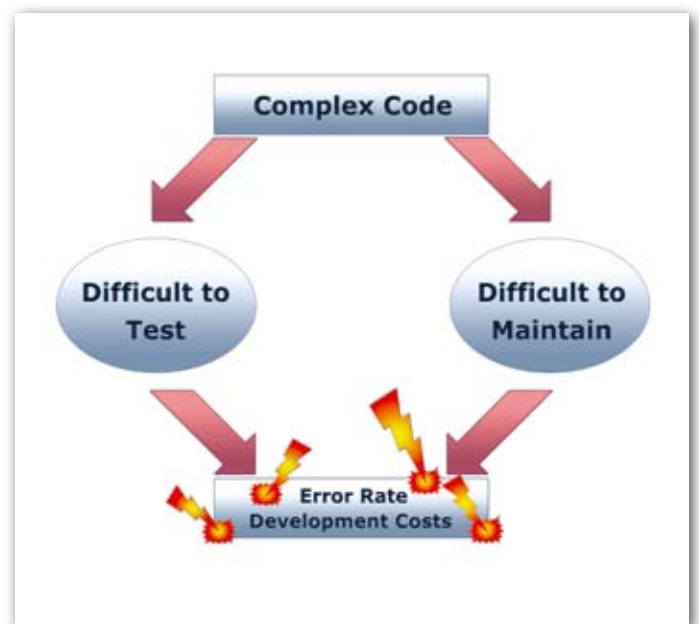


Complexity Measurements

- ▶ Code complexity correlates with the defect rate and robustness of the application.
- ▶ Complex code is difficult to test.
 - ▷ More errors in the final application
- ▶ Complex code is difficult to maintain and more cost intensive.

Code Analysis with CMT++ and CMTJava

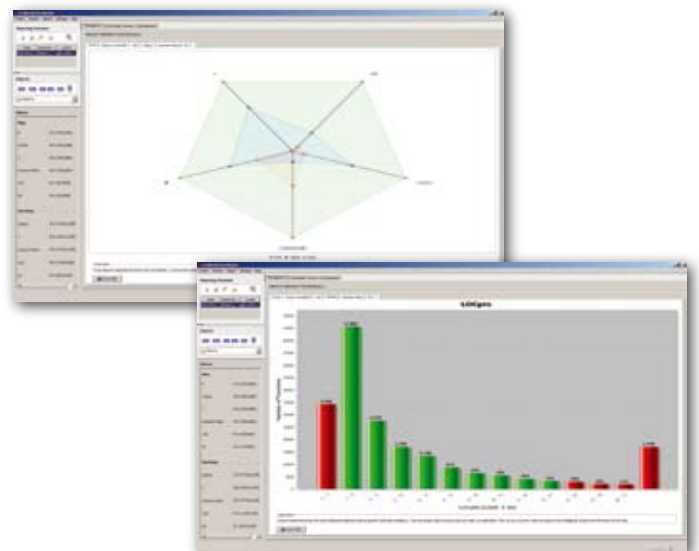
- ▶ Lines of Code-Metrics (LOC)
- ▶ Halstead Metrics
- ▶ McCabe Cyclomatic Complexity
- ▶ Maintainability Index



Verybench for CMT++ and CMTJava

Verybench is a graphical front end for the tools **Testwell CMT++/CMTJava**. It enables its users to display code metrics performed by CMT++ or CMTJava graphically. It is also able to version snapshots of analysed code and to compare those. Reports of such analyses can be created in several different output formats. Verybench has four views built-in: one for managers, one for quality controllers, one for reviewers and one for developers.

- ▶ **Reports**
 - ▷ HTML, XML, TXT, XLS (MS Excel) and PDF
- ▶ **Diagrams**
 - ▷ Kiviat diagrams and bar charts



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