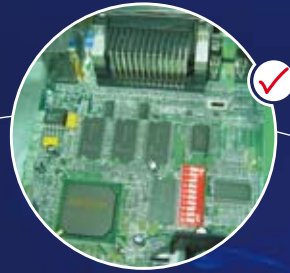# Verifysoft
TECHNOLOGY

Software Testing Solutions for Productivity & Quality

- automatic test generators
- static code analysis
- complexity measures
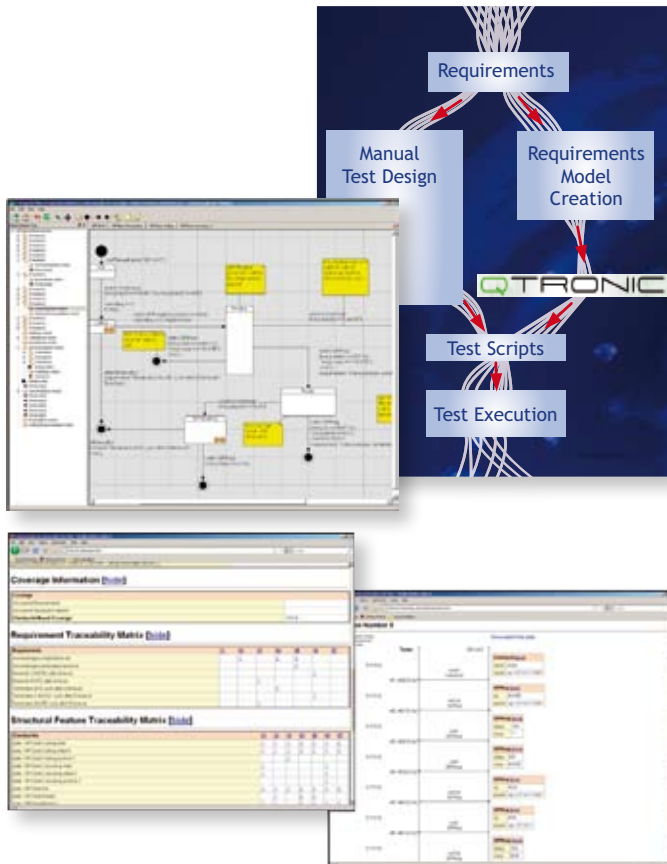- code coverage

Conformiq

Conformiq Qtronic

Automatic test generation and execution
based on your design models

Conformiq Qtronic automates test case generation and test execution, based on your software design models.

The tool eliminates the risks of accidentally missing or incorrectly designed test cases and improves testing productivity dramatically.

Requirements

Manual
Test Design

Requirements
Model
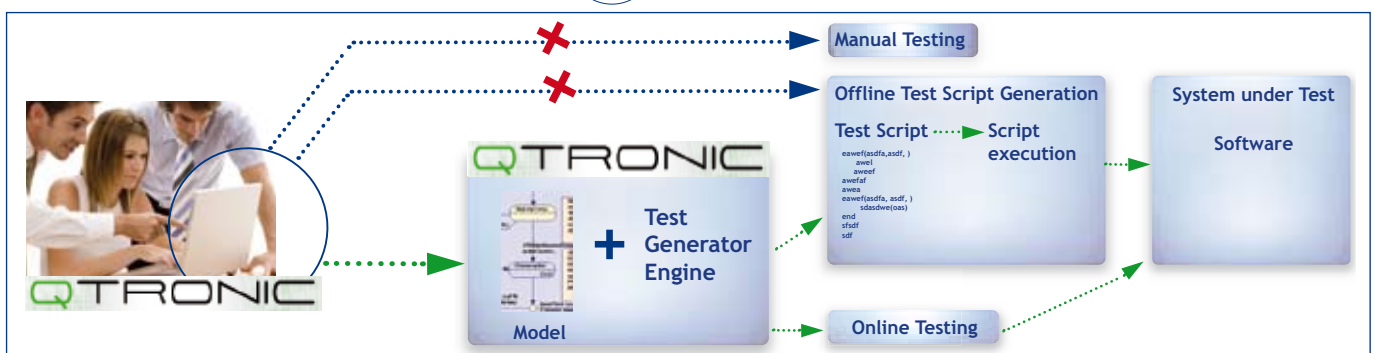Creation

QTRONIC

Test Scripts

Test Execution

Features

> Automatic test case design

> Calculates and generates test data

> Test results evaluation

> Ease of model import, either graphical or textual

> Start with a simple model and build as you progress

> Traceability and coverage information

> Can be connected to virtually any system

> Plug-ins and open APIs

> Full support for time, data and concurrency

> Supports Java/C#-like modeling syntax and UML

> Tests in TTCN-3, TCL, Java, C++, XML and other
   formats

> Modeling tool Conformiq Modeler included

> Ease or integration with existing design modeling
   and test automation tools

Application Areas

> Functional, System and Acceptance Testing

> Regression Testing (automatic testing of daily builds)

> Integration Testing (simulation of parts of a system)

Benefits

> Improves test design productivity

> Reduces total quality assurance lead time and costs

> Reduces the risk of missed or defective test cases

> Increases test coverage and target system quality

> Reduces test asset maintenance costs

Current Practice without Conformiq

DESIGN   SCRIPTING • TESTING

Current Practice with Conformiq

DESIGN

Manual Testing

Offline Test Script Generation

Test Script ····▶ Script
                  execution

```
eawef(asdfa,asdf, )
     awel
     aweef
awefaf
awea
eawef(asdfa, asdf, )
     sdasdwe(oas)
end
sfsdf
sdf
```

System under Test

Software

QTRONIC

QTRONIC

+ Test
  Generator
  Engine

Model

Online Testing

Testwell

Testwell CTC++ Test Coverage Analyzer for C/C++
CTC++ for Java and C# add-on

Code Coverage for all coverage levels – programming languages: C, C++, C# and Java

Testwell CTC++ is a powerful and easy to use Code / Test Coverage Tool which shows the parts of the code which have been executed (tested). The tool analyses for all coverage levels as required in "critical" projects, and helps to obtain certifications, i.e. DO178-B.
CTC++ for Java and C# add-on is a product which extends the usage of CTC++ to Java and C#.

Code Coverage for all coverage levels

> Function Coverage

> Decision Coverage

> Condition / Branch Coverage

> Multicondition Coverage

> Modified Condition / Decision
   Coverage (MC /DC)

- can be used for all – even smallest – embedded targets

- works with almost any compiler

- very low overhead on the size and execution speed

- intuitive and easy to use

- integration with many IDEs

- Outputs in text and HTML (Execution Profil,
   Untested Code, various Coverage Level reports,
   Coverage Summary, Execution Time)

TER % - covered/all		File
100 %	6/6	prime.c
80 %	4/5	io.c
82 %	14/17	calc.c
86 %	24/28	overall

Number of monitored source files : 3
Number of source lines : 59
Number of measurement points : 30
TER : 86 % (multicondition)

Testwell

Testwell CMT++ and CMTJava
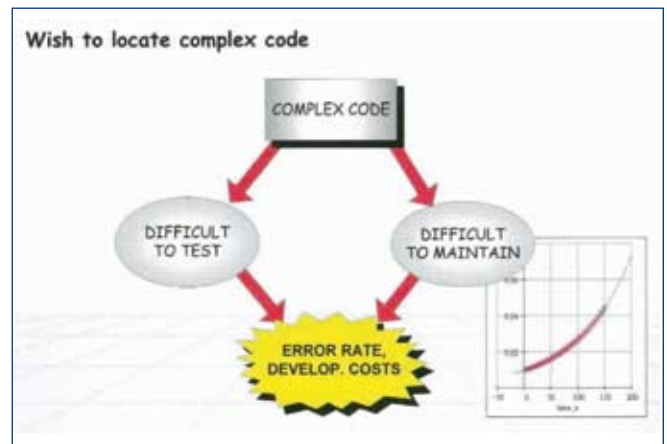Code Complexity Measurement Tools for C/C++ and Java

✓

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

> 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

Quick and easy code complexity checks with CMT++/ CMTJava

> Lines of Code Metrics

> Halstead Metrics

> McCabe Cyclomatic Number

> Maintenability Index

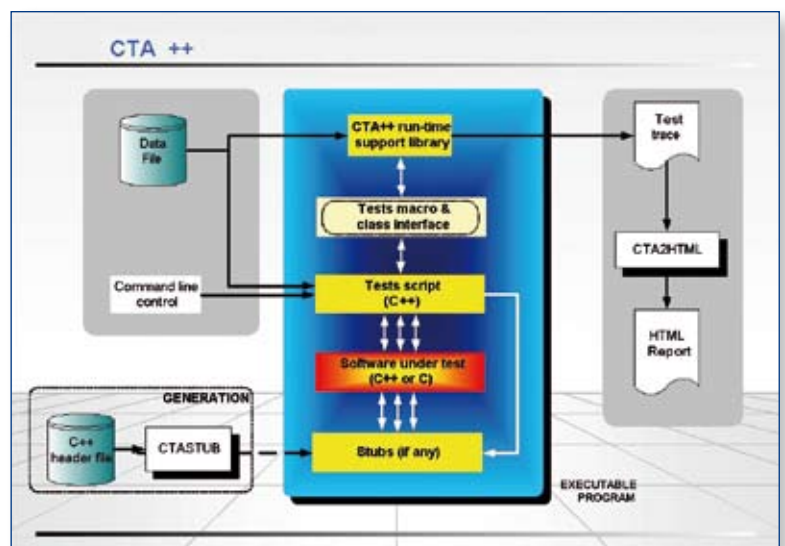## Testwell CTA++
C++ Test Aider

✓

Testwell CTA++ is a Unit Test Tool for White Box Testing of C++ code. The tool allows for testing of individual software components in a "stand alone environment" immediately after coding.

> "Test in isolation" – Use of stubs

> Stub generation from header files

> Testing "close to the error"

> repeatable tests, regression testing

> automatic test documentation

www.verifysoft.com

verifysoft
TECHNOLOGY

Our references

Global corporations, mid-sized players and small companies in more than ten European countries
are using our tools to increase productivity and quality of their software development.
Please contact us if you require further information or free trial software.

Alcatel·Lucent AREVA BARCO Visibly yours BOMBARDIER BOSCH

BT Bundesamt für Sicherheit in der Informationstechnik Continental DAIMLER ESO

esa gemalto security to be free GE General Electric Company Giesecke & Devrient

Infineon intel jenaoptronik Aerospace and Security KNORR-BREMSE

Mentor Graphics NXP founded by Philips PHILIPS RWE SAGEM

SIEMENS Sopra group ST T··Mobile T··Systems·

TEXAS INSTRUMENTS THALES VW wavecom WEB.DE ZF ZODIAC

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About our company

Verifysoft Technology is a value-added reseller of software testing and analysis tools
from leading software engineering companies such as Testwell and Conformiq Software.

We provide global corporations, mid-sized players and small companies with
software testing tools, expert advice, support and customization services.

Our international team of experts provides advice and assistant to customers
in more than ten European countries. Our engineers have extensive experience
of software testing - and several tools were developed in close cooperation
with Verifysoft Technology.

Verifysoft Technology GmbH was founded in 2003 by a group of private investors
and software testing specialists. The company is based in Offenburg Technology Park,
in south-west Germany, close to the French border.

Find code defects and problems before your customers do!
Enhance your software quality with tools from Verifysoft Technology.
Request your free evaluation now!

More information and more tools on www.verifysoft.com