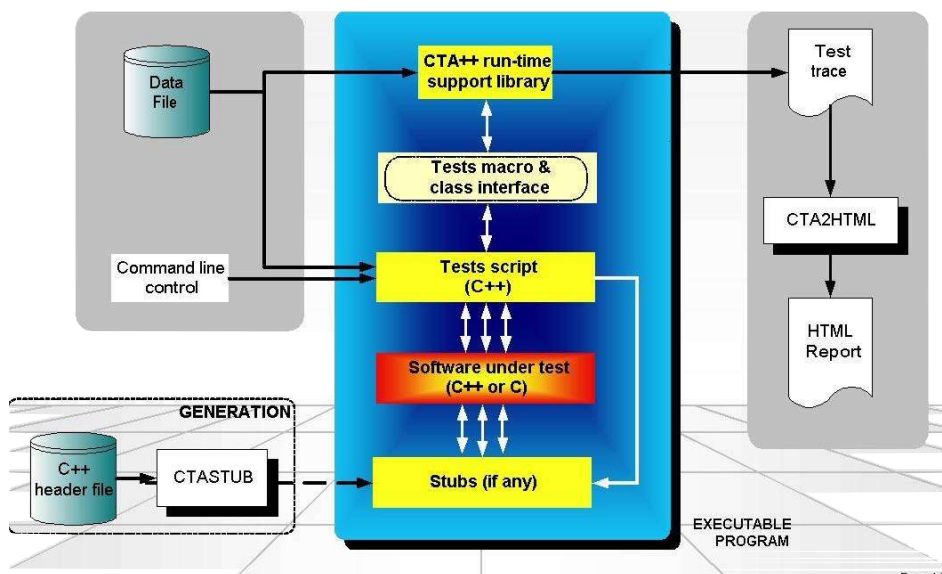


## Testwell CTA++ Unit-Tests for C++

### *Advantages of unit tests:*

- Tests of individual software components in a "stand-alone-environment" immediately after the coding (no need to have the whole project available)
- faster and easier error detection by tests "close to the error" (if errors arises, they must be in the tested unit)
- simple and economical error correction thanks to early testing



### *Benefits:*

- Automated test execution
- Repeatable tests, regression testing
- clear documentation of test executions
- HTML representation of test results showing summary and detailed views
- Reporting in 'application domain' (displaying in define/enum symbolic names)
- Reusing of test cases saves work in derived class testing
- Early unit testing
- Testing in isolation (use of stubs)
- More testing possible in the host environment (use of stubs)
- Stub generation from header files
- integration to Visual Studio 6.0 and .NET

### ***Conditions for unit tests:***

Since the code which can be tested is still no independently executable program, a complex test environment (testharness) must be present for unit tests.

CTA++ delivers this harness. The tool is a "the test execution engine" with strong automation.

### ***Testwell CTA++ makes available the infrastructure for unit tests:***

- Stub simulation of functions which are not yet existing
- Test of C++ classes, libraries, APIs and subsystems
- simple description of the test cases and test data in a C-similar script language
- Integrated in Microsoft Visual Studio 6.0 and Microsoft Visual Studio .NET
- Usage over command line possible
- Nightly tests
- Automatic documentation of the test runs
- Access to "private" methods and data
- HTML viewing of the test results
- Usage with other tools possible, i.e. Run Time Error Detection Tools and Code Coverage Tools (i.e. Testwell CTC++)
- Available for Windows, Linux, Solaris, HP-UX

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