

presenter and tool

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Tool name (long/short): CPPUnit/ CppUnit - C++ port of JUnit

tool overview

Creator: Ken Beck (creator of **Extreme Programming**) in the form of SUnit, then ported to JUnit, then port by Michael Feathers to CppUnit

Target Language(s): C++

Platforms(s): all major operating systems

License Status: LGPL

functionality in a nutshell

CppUnit is a framework, that provides library support for creating test cases for C++ code (whitebox testing and blackbox testing of libraries). It help the developer in running test suites composed of test cases and assists in collecting the results and presenting them in parseable output (XML). It does not assist in creating the test data for the unit tests. The resulting code can be compiled, executed and the results evaluated manually or inside tools.

Experiences

Installation compile or use system package manager

Stability very stable (used for big projects as the unit test framework of choice)

Usability good, but probably depends on requirements (xml output needs converting for some tools)

UserInterface : Ascii but provides classes for integrating it into graphical environments

Learning Curve : for someone with some exposure to unit testing such as JUnit, easy, not easy for absolute beginners

Installation : compile or install via package system

Else: cppunit is relatively old and newer frameworks are preferred by tool developers, such that support may be lacking for the tool of choice.

References

slides:

- <https://www.slideshare.net/mudabbirwarsi/cpp-unit-28dec>
- <https://github.com/skraatz/softwaretesting/blob/master/doc>

webpages:

- http://cppunit.sourceforge.net/doc/cvs/cppunit_cookbook.html
- <https://shebanator.com/2007/08/21/a-brief-history-of-test-frameworks/>
- <https://www.embracetherandom.com/MFCTestRunner/>
- <https://wiki.jenkins.io/display/JENKINS/xUnit+Plugin>
- <http://wiki.c2.com/?SmalltalkUnit>
- <https://junit.org/junit5/>
- <https://freedesktop.org/wiki/Software/cppunit/>