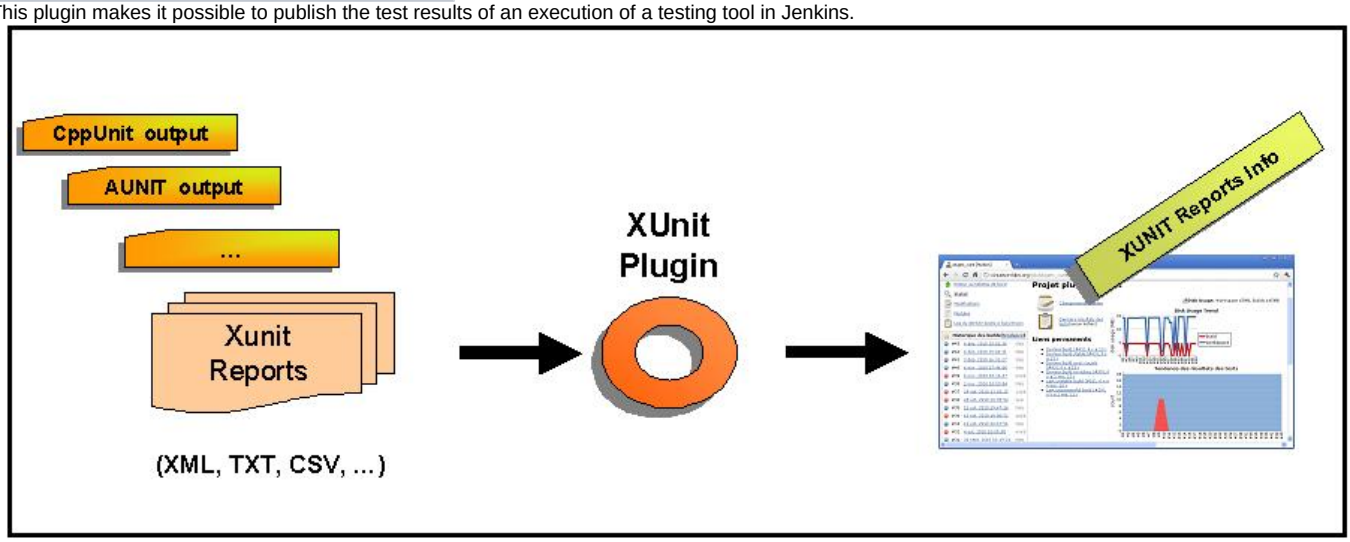
xUnit Plugin

Plugin Information
View xUnit on the plugin site for more information.

This plugin makes it possible to publish the test results of an execution of a testing tool in Jenkins.



Features

- Records xUnit tests
- Mark the build unstable or fail according to threshold values

Supported tools

Embedded tools

* JUnit (supported schema are Ant junit and Maven Surefire)
* AUnit
* MSTest (imported from MSTest Plugin)
* NUnit (imported from NUnit Plugin)
* UnitTest++
* Boost Test Library
* PHPUnit
* Free Pascal Unit
* CppUnit
* MbUnit
* Googletest
* EmbUnit
* gtester/glib
* QTestLib

Other plugins as an extension of the xUnit plugin:

* Gallio (Gallio plugin)
* Parasoft C++Test tool (Cpptest Plugin)
* JSUnit (JSUnit Plugin)
* JBehave
* TestComplete (TestComplete xUnit Plugin)

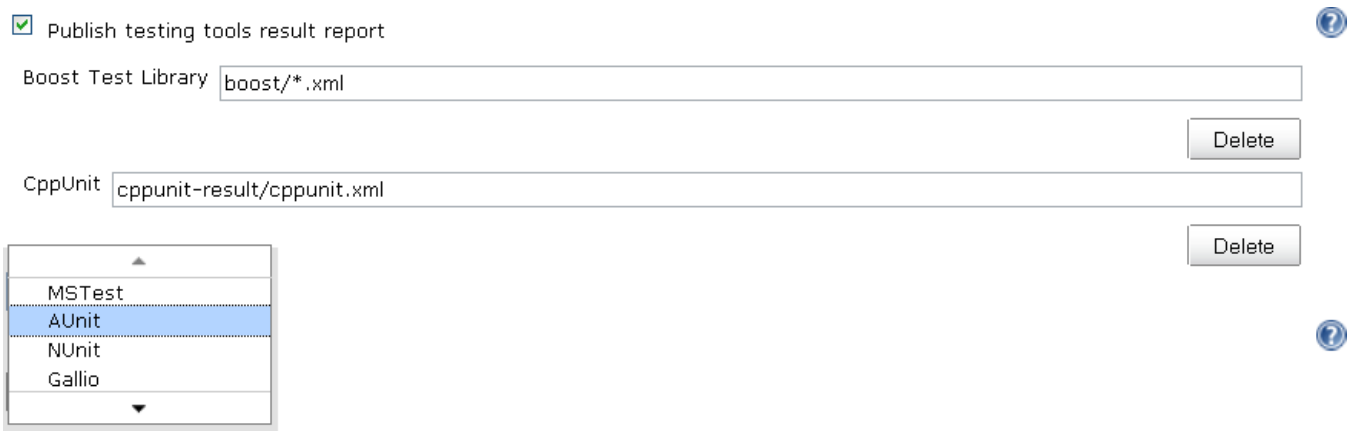
External contributions

For each xUnit tool, an embedded style sheet is used. However, the plugin also enables you to use a custom style sheet for your own tool such as :
* WebUI
* Ranorex

Configuration

Job Configuration

* Execute your testing tools manually or as a step of your build chain
* Give a pattern that specifies your test results



Provide User XSL

If you want to customise how a input report is transformed to a JUnit report, of an existing tool type; xUnit provides a way to use your own XSL if placed at specific path. Specify your XSLs in the JENKINS_HOME/userContent directory with the following convention:

$JENKINS_HOME/userContent/xunit/[toolName]/[version]/[any_name].xsl

For example:

$JENKINS_HOME/userContent/xunit/AUnit/3.x/aunit-to-junit.xsl

Note: The tool name and the version are taken from the label in the combo box from the UI. If the tool doesn't have a version (N/A), do not create a version directory.

Custom Tool for unsupported formats

XUnit supports a large number of report format, but not all. For unsupported report type an user could provide an own stylesheet that convert the original report into a supported JUnit report.

When choose the "Custom Tool" as tool type a path to the user XSL must be provided. The path is relative and the plugin lookup the provided relative path using the following priority:

1. on Jenkins master
2. on Jenkins slave
3. relative to workspace

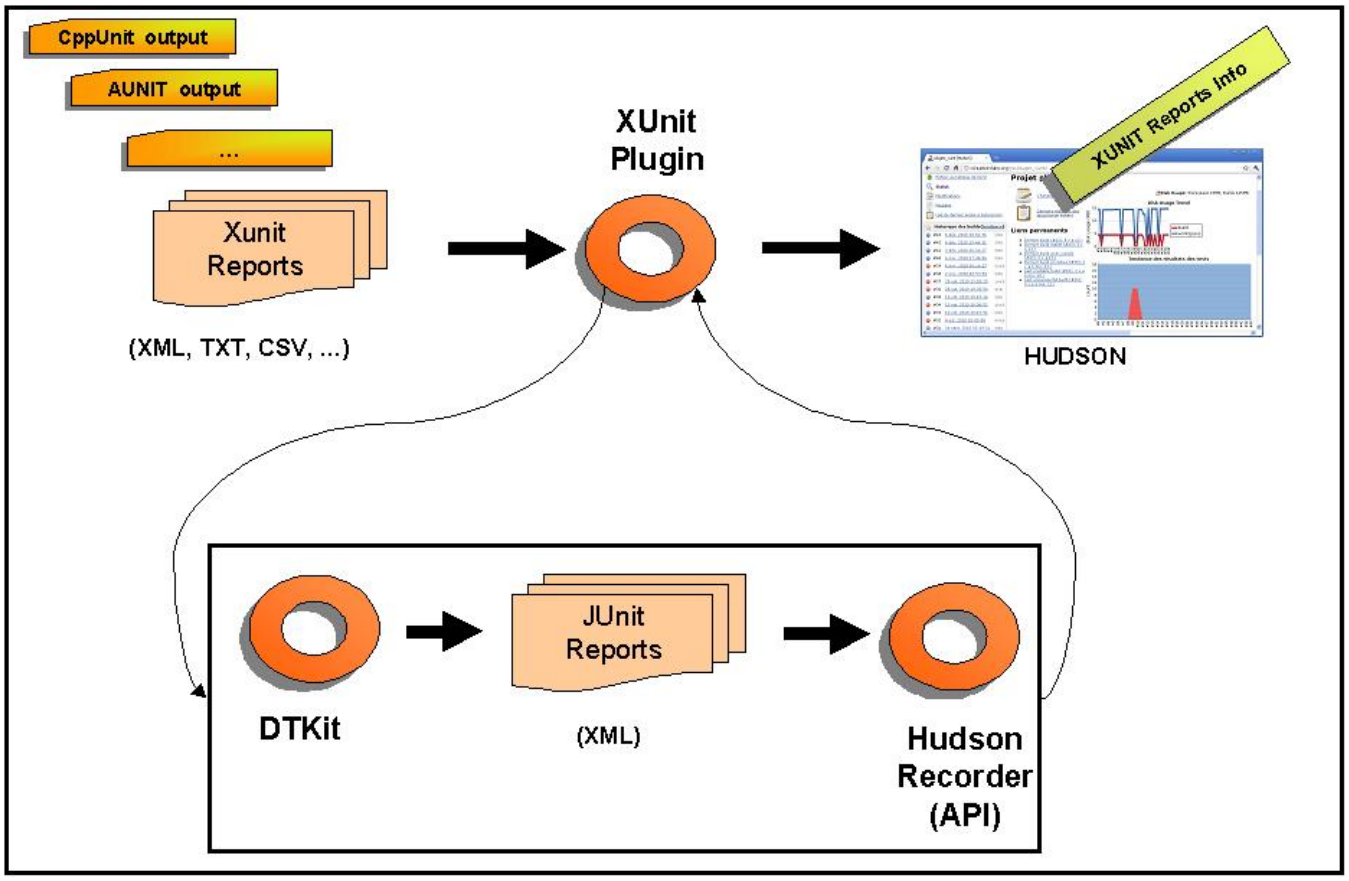
You could also provide an URL to the stylesheet. Is possible place the XSL file in the $JENKINS_HOME/userContent folder and automatically the file will be available under the URL http(s)://$JENKINS_URL/userContent/<xsl file>

xUnit Architecture

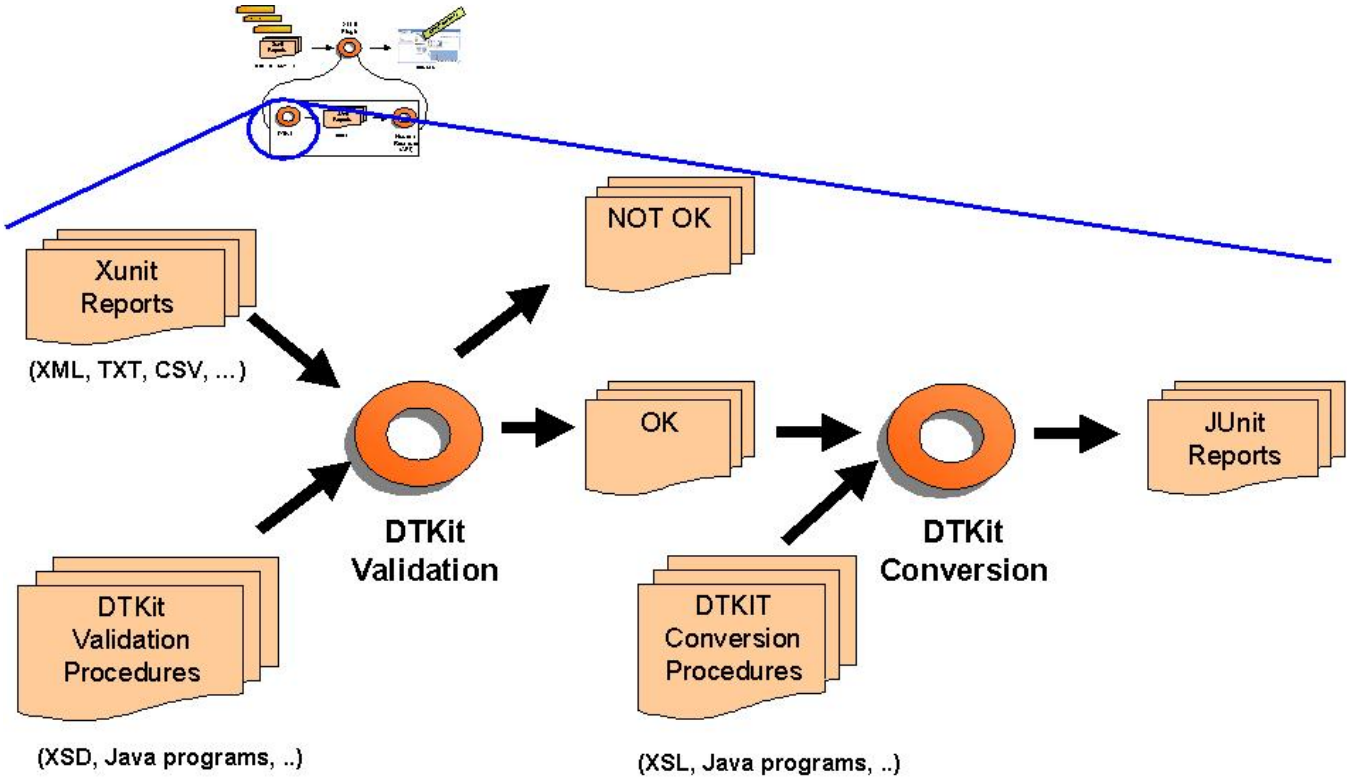
Global Architecture

When this plugin is installed and configured, Jenkins can transform test result reports produced by different testing tools into JUnit test result format. The JUnit tests can then be recorded by Jenkins.
Jenkins can provide useful information about test results, such as the historical test result trend, web UI for viewing test reports, tracking failures, and so on.

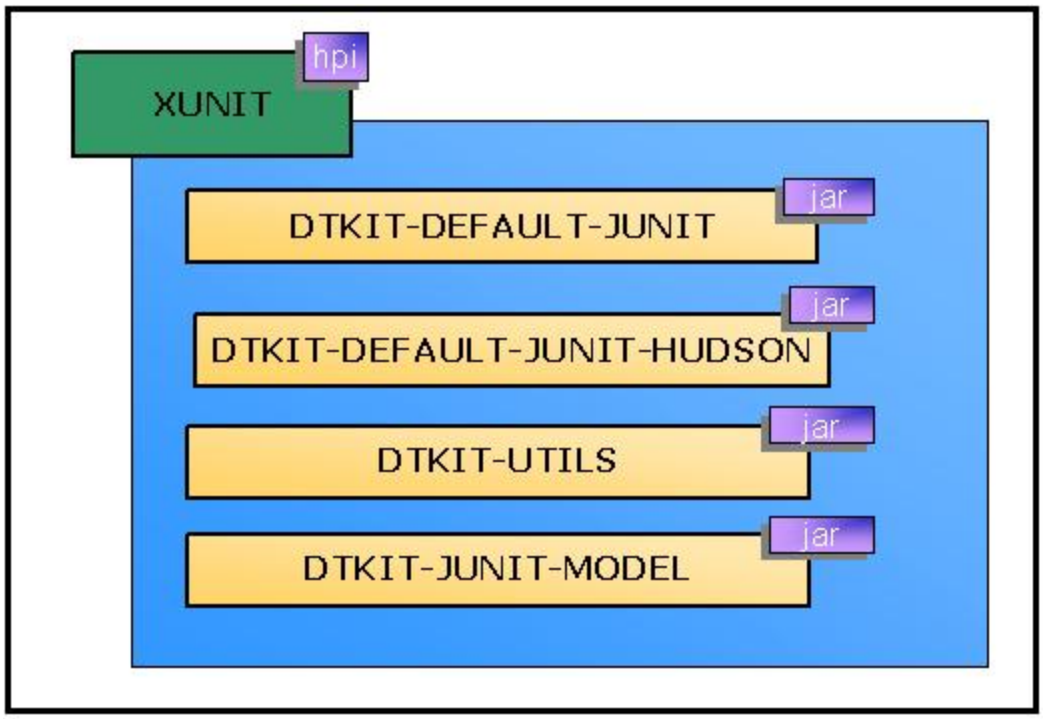
Under the hood, xUnit Jenkins plugin delegates processing to DTKit.



DTKit Activities for XUnit



DTKit Packaging



Working with Pipelines

It is also possible to set an xUnit configuration in a pipeline job, but is somewhat more verbose.

For example, creating a boost pipeline (declarative) with the same configuration as above would be:

Example of pipeline

```
pipeline {
    agent any
    stages {
        stage('Test'){
            steps {
                sh "run_tests.bash"
            }
        }
    }
    post {
        always{
            xunit (
                thresholds: [ skipped(failureThreshold: '0'), failed(failureThreshold: '0') ],
                tools: [ BoostTest(pattern: 'boost/*.xml') ])
            )
        }
    }
 }
```

Releases

Moved to github repository page

Version 2.2.5

Improvements

- JENKINS-51645 Add support for claims plugin in xUnit (nfalco79 to Arnaud)
- JENKINS-24224 improve xunit plugin with test-stability plugin (nfalco79 to Arnaud)

Bugfixes

- JENKINS-53186 NUnit 2.x test cases with result Error are reported as Success (nfalco79)
- Fix lookup strategy when user provides a custom stylesheets file to override the embedded one (nfalco79)
- JENKINS-53034 Failure when validate NUnit 2.x reports generated by NUnit 3.x console (nfalco79)
- JENKINS-53036 NPE after upgrade to 2.2.1 when run publisher (nfalco79)
- JENKINS-52908 Newlines get ignored in failure message and possibly stack trace when uploading xUnitDotNet xml results (nfalco79)

Version 2.1.0

Improvements

- JENKINS-32920 Support for URL for stylesheet in Custom Tool (nfalco79)

Bugfixes

- JENKINS-52512 Builds on slave node fails when there is no report file even if set to do not fail (nfalco79)
- JENKINS-52400 xUnit miss to add required attributes when converts Valgrind reports (nfalco79)

Version 2.0.4

Improvements

- Improved GoogleTest, FPCUnit, CppTest XSLT to produce a report more compliant with surefire XSD

Bugfixes

- JENKINS-52327 java.nio.file.AccessDeniedException on Publish xunit Custom tool test report (nfalco79 to greghoeppner)
- JENKINS-52202 xUnit reports "All test reports are empty" in case of parallel steps but reports are not empty (nfalco79)
- JENKINS-52253 xUnit in case of multiple tool type processes only the first one (nfalco79)
- JENKINS-52173 xUnit fails when converting gtester/glib2 input to junit format (nfalco79)
- JENKINS-51604 XPathExeption when parsing QtTestLib Reports when a Test contains multiple Incidents (nfalco79)
- JENKINS-27860 Build does not stop if it is marked as Failure when the opportune option is enabled (nfalco79)
- JENKINS-47194 xUnit should not consider report generated by other xUnit step (nfalco79)
- JENKINS-52107 Convertion exception for NUnit 2.1 reports because nunit-version attribute not contains only digits (nfalco79)
- JENKINS-41093 For Unittest++ xml, only the first failure of each test case is recognized (nfalco79)
- JENKINS-51767 xUnit 2.x XSD does not validate NUnit 2.x XML report file (nfalco79)
- JENKINS-51797 xUnit.Net v2 parse error when time attribute is missing (nfalco79)
- JENKINS-51798 GoogleTest parse error when time attribute is missing (nfalco79)
- JENKINS-51561 xUnit plugin fails to parse NUnit 2 report format generated by NUnit 3.6.0.0 (nfalco79)
- JENKINS-51465 Exception in XSL Transformation cause JEP-200 (nfalco79)
- JENKINS-51481 Parse error occur when NUnit report have categories (nfalco79)
- JENKINS-26227 xUnit plugin doesn't use OS culture when reads time values in xUnit.net output (nfalco79)
- JENKINS-12417 xUnit problems with CppTest reports generated with default options (nfalco79)
- JENKINS-28871 CppTest 9.5 report file seems not valid for xUnit when no tests was executed (nfalco79)

Version 2.0.0

Breaking Changes

I have introduce some schemas validation becase the large number of issues opened to xUnit plugin. Those issues are caused by custom attributes or XML DOM in the report generated by some user/tools report logger also if they declare to produce a valid report file. This cause me to spend a lot of time to investigate what is right and what is wrong and how to implement the XSL without it goes in error during transformation.

- **Official supported JUnit schema are Ant junit and Maven Surefire).**

  In case you are using a non java tools that declares to produce a JUnit compatible report, ensure the report respects one of the widely used supported schemas. If not than select as test type the build step "Custom Tool" and use this XSL as described here.

- **NUnit 2.x (2.0 ~ 2.6) schema validation from official distribution.**

In case you are using a tools that declares to produce a NUnit 2 compatible report, ensure the report respects the official schemas. If not than select as test type the build step "Custom Tool" and provide a XSL as described here.

Improvements

- Improved MSTest, MbUnit, AUnit, NUnit, QtTest XSLT to produce a report more compliant with surefire XSD
- Change UI rendering of the report tool and clarify the pattern description
- JENKINS-37611 Add support for pipeline using @Symbol annotation to xunit and its parameters (nfalco79)

Bugfixes

- JENKINS-42715 xUnit does not support PHPUnit 5.x skipped attribute (nfalco79 to ray)
- JENKINS-47194 xUnit should not consider report generated by other xUnit step (nfalco79)
- JENKINS-10911 xUnit not detecting Ignored MSTest and NUnit Tests (nfalco79)
- JENKINS-51347 Test Status "notrun" being reported as "failed" test (nfalco79)
- JENKINS-13113 xUnit plugins detects MSTEST "NotExecuted" as successed instead of skipped (nfalco79)

Version 1.104

Improvements

- JENKINS-33450 Support for NUnit3 which uses a different XML format by NUnit2 (nfalco79 to alexschwantes)
- JENKINS-50658 Fix xsd to be compliant with surefire report and rerun option (nfalco79 to alemorato)
- Move plugin to pipeline so that commits and pull request could be checked for test failure

Bugfixes

- JENKINS-48945 Testreport lacks of those test in which the hashcode of two different testsuite name coincide (nfalco79)
- JENKINS-33385 Testresult doesn't show test name in case the package is empty (nfalco79 to Zenger Alexander)
- JENKINS-51056 xUnit throws NPE when no threshold was specified (nfalco79)
- JENKINS-35660 QTestLib time information is lost (nfalco79 to kpop)
- JENKINS-28471 xUnit should compare test results to last build where tests was recorded to calculate correctly thresholds (nfalco79 to Jimilian)
- JENKINS-50378 Skipped count percentage is affected by integer rounding (nfalco79 to pauljohnston2009)
- JENKINS-42031 xUnit Plugin Does Not Parse Some Boost 1.63 Test Reports (nfalco79 to aschet)
- Relax BoostTest code line validation (nfalco79 to penberg)
- Ensure testuite time attribute is valid for NUnit
- JENKINS-24382 Add basic support for Unit

Version 1.100

- Fix JENKINS-30812 - added parsing for gtest errors so that a failure to run a test is considered a test failure
- Fix JENKINS-27240 - Workflow integration XUnit as a SimpleBuildSte