Junit Sampler Tutorial

This tutorial attempts to explain the basic design, functionality and usage of the new Junit Sampler for Jmeter. The sampler is currently in Jmeter's CVS and is not part of Jmeter 2.1 release candidate.

Design

The current implementation only supports standard Junit convention and does not support other extensions, like oneTimeSetUp. The feature can be added with a few hours of work. The sampler works like the JavaSampler with some differences.

- 1. rather than use Jmeter's test interface, it scans the jar files for classes extending junit's TestCase class.
- 2. Junit test jar files are copied to jmeter/lib/junit instead of jmeter/lib
- 3. Junit sampler does not use name/value pairs for configuration. The sampler assumes setUp and tearDown will configure the test correctly.
- 4. The sampler measures the elapsed time only for the test method and does not include setUp and tearDown.
- 5. Each time the test method is called, Jmeter will pass the result to the listeners.

Functionality

Here is a description of the functionalty.

JUnit Request
Name: JUnit Request
Package Filter
Classname:
org.apache.jmeter.engine.util.PackageTest
Test Method
testFunctionParse1
Success Message
Success Code
Failure Message
Failure Code
☐ Do not call setUp and tearDown
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Name – name for the sample. This is the same as all jmeter samplers.

Package Filter – provides a way to filter the classes by package name.

Classname – the name of the class to test. The sampler will scan the jar files in jmeter/lib/ext and jmeter/lib/junit for classes extending junit's TestCase.

Test Method – the name of the method to test in the sampler.

Success message – a descriptive message indicating what success means.

Success code – an unique code indicating the test was successful.

Failure message – a descriptive message indicating what failure means.

Failure code – an unique code indicating the test failed

Do not call setUp and tearDown – set the sampler not to call setUp and tearDown. By default, setUp and tearDown should be called. Not calling those methods could affect the test and make it inaccurate. This option should be used with caution.

Usage

Here is a short step-by-step.

- 1. write your junit test and jar the classes
- 2. copy and paste the jar files into jmeter/lib/junit directory
- 3. start imeter
- 4. select "test plan"
- 5. right click add -> thread group
- 6. select "thread group"
- 7. right click add -> sampler -> junit request
- 8. enter "my unit test" in the name
- 9. enter the package of your junit test

10.select the class you want to test

11.select a method to test

12.enter "test successful" in success message

13.enter "1000" in success code

14.enter "test failed" in failure message

15.enter "0001" in failure code

16.select the thread group

17.right click add -> listener -> view results tree