

JUnit

Harmony has passed all testcases provided by JUnit 4.1.

With J9 VM, harmony passes both on windows xp2 and redhat enterprise 4.0. While drlvm fails on linux.

HowTo:

1. Download junit4.1 from <http://prdownloads.sourceforge.net/junit/junit4.1.zip?download>
2. Unzip it to a directory called JUNIT_ROOT.
3. Run below script to test it:

```
set PATH=PATH_TO_JRE_BIN
set CLASSPATH=JUNIT_ROOT;JUNIT_ROOT/junit-4.1.jar
java junit.tests.AllTests
java junit.samples.AllTests
```

Performance:

| VM | Windows xp2 | Redhat Enterprise4 |
|-------|-------------|--------------------|
| RI | 0.985 0.921 | 0.75 0.717 |
| J9 | 4.25 2.61 | 2.888 2.897 |
| drlvm | 8.437 5.359 | / |

*The former data represents the time to run junit.tests.AllTests. The latter,junit.samples.AllTests.

Drlvm fails on RedHat Enterprise 4.0 with such output:

```
.....
.....
.....E..E....
Time: 5.157
There were 2 errors:
1) testActiveRepeatedTest(junit.tests.extensions.ActiveTestTest)java.lang.OutOfMemoryError: Failed to create
new thread
    at java.lang.Thread.start(Unknown Source)
    at junit.extensions.ActiveTestSuite.runTest(ActiveTestSuite.java:41)
    at junit.extensions.ActiveTestSuite.run(ActiveTestSuite.java:34)
    at junit.extensions.TestDecorator.basicRun(TestDecorator.java:25)
    at junit.extensions.TestDecorator.run(TestDecorator.java:33)
    at junit.extensions.RepeatedTest.run(RepeatedTest.java:29)
    at junit.tests.extensions.ActiveTestTest.testActiveRepeatedTest(ActiveTestTest.java:32)
    at java.lang.reflect.VMReflection.invokeMethod(Native Method)
    at junit.tests.AllTests.main(AllTests.java:13)
2) testActiveRepeatedTest1(junit.tests.extensions.ActiveTestTest)java.lang.OutOfMemoryError: Failed to create
new thread
    at java.lang.Thread.start(Unknown Source)
    at junit.extensions.ActiveTestSuite.runTest(ActiveTestSuite.java:41)
    at junit.extensions.ActiveTestSuite.run(ActiveTestSuite.java:34)
    at junit.extensions.TestDecorator.basicRun(TestDecorator.java:25)
    at junit.extensions.TestDecorator.run(TestDecorator.java:33)
    at junit.extensions.RepeatedTest.run(RepeatedTest.java:29)
    at junit.tests.extensions.ActiveTestTest.testActiveRepeatedTest1(ActiveTestTest.java:50)
    at java.lang.reflect.VMReflection.invokeMethod(Native Method)
    at junit.tests.AllTests.main(AllTests.java:13)

FAILURES!!!
Tests run: 102, Failures: 0, Errors: 2
```