Reliability Tests on DRLVM

Back to DRLVM Test Tracking

Summary

Reliability Tests Suite contains 100 tests including 13 that are considered as invalid currently. This suite is critical for testing Harmony readiness for running long large workloads such as Eclipse in the development mode. {*}

How to run reliability tests

Detailed instruction placed at http://harmony.apache.org/subcomponents/buildtest/index.html

1. There is approximate list of commands that should be executed:

```
cd <new folder for bti>
svn co https://svn.apache.org/repos/asf/harmony/enhanced/buildtest/trunk/infra
cd infra
ant -Dtest.suites="classlib,drlvm,reliability" install
ant setup
ant run
```

Results could be observed at build/results/reliability folder

2. In case of testing virtual machine in different location the following commands can help:

```
cd <new folder for bti>
svn co https://svn.apache.org/repos/asf/harmony/enhanced/buildtest/trunk/infra
cd infra
```

Modify file "framework.local.properties" in order to set the path to tested vm like:

```
reliability.parameters.required.jvm.under.test=C:\harmony-jdk-628209\jre\bin\java.exe
```

Start test running

```
ant -Dtest.suites=reliability install
ant setup
ant run
```

3. Here is also sample of individual test run if needed:

```
<vm folder>\working_vm\build\windows_x86_msvc_release\deploy\jdk\jre\bin\java.exe -classpath <bti
folder>\build\checkouts\reliability\deploy\classes org.apache.harmony.test.reliability.share.
ReliabilityTestStarter -testReliabilityMode longrunning -testTimeOut 1200 -testClassName org.apache.harmony.
test.reliability.api.kernel.hooks.AddRmShtdwnHooksTest <vm
folder>\working_vm\build\windows_x86_msvc_release\deploy\jdk\jre\bin\java.exe <bti
folder>\build\checkouts\reliability\deploy\classes
```

Test run status

Pass rates according to Automated Testing results:

Platform	Valid	Failed	Excluded	Failed+excluded	Pass rate
Windows x86	87	2	13	15	83%
Linux x86	87	2	13	15	83%
Linux x86_64	87	4	17	21	76%

Excluded test list with references to corresponding JIRA could be found in files:

```
build/checkouts/reliability/run/exclude
build/checkouts/reliability/run/exclude.<platform>
```