

Spring integration tests with Team...



Andrew gonzalez 6 posts since

Mar 15, 2010

Hello all,

On our project we wanted to start having integration tests with JUnit and Spring's helper classes for integration testing.

<http://static.springsource.org/spring/docs/2.5.x/api/org/springframework/test/annotation/AbstractAnnotationAwareTransactionalTests.html>

We used the same context files that we use for the application and added some context files to add objects for test data from our model package.

The tests will run on Team city when committed and are disabled by making the Spring method `isDisabledInThisEnvironment()` from it's test helper classes return true.

<http://static.springsource.org/spring/docs/2.5.x/api/org/springframework/test/ConditionalTestCase.html#isDisabledInThisEnvironment%28java.lang.String%29>

When we run these tests as enabled on our local environment, they run fine. However, when we run them on Team City, the context files alone cause an `OutOfMemoryError`. We did some diagnosis and realized that if we take away all of the test code that are using the Spring context files for testing, we still get an `OutOfMemoryError` on Team City.

Spring integration tests with Team...

If we got rid of all of the context files that we wanted to use for integration testing, then Team City would no longer get an `OutOfMemoryError`.

Is there a way Spring can be configured to do these integration tests without getting an `OutOfMemoryError` on Team City? Is there a way to configure Team city so we do not get an `OutOfMemoryError` using the Spring context files for our integration tests?



[Marina Grechko](#) 600 posts since

Oct 12, 2009 1. **Re: Spring integration tests with Team city: OutOfMemoryError** Mar 16, 2010 3:41 PM

Andrew,

What build runner do you use? In Ant runner case could you please try to run tests from the command line using all parameters that TeamCity use (you could find the runner with parameters in `teamcity-agent.log`) and the same user account.



[Andrew gonzalez](#) 6 posts since

Mar 15, 2010 2. **Re: Spring integration tests with Team city: OutOfMemoryError** Mar 16, 2010 6:46 PM

We were passing command line arguments to increase heap size when running Team City (1024 mb), but were still

having issues.

We have resolved this issue by making one base class that loads the spring contexts and having the other test classes extend from this one class. If we have any more classes loading the contexts, then Team city will get an `OutOfMemoryError`.



[Pavel Sher](#) 2,148 posts since

Mar 6, 2008 3. **Re: Spring integration tests with Team city: OutOfMemoryError** Mar 16, 2010 7:06 PM

What kind of memory error did you get? Is it heap space error or perm gen space? Also it would be helpful to see build log.



[Andrew gonzalez](#) 6 posts since

Spring integration tests with Team...

Mar 15, 2010 4. Re: **Spring integration tests with Team city: OutOfMemoryError** Mar 16, 2010 10:24 PM

Hello Pavel and Marina.

The log is posted below.

What is very interesting is that below, the cause is supposedly Apache commons logging, which we are not using in the tests added causing the error...

Caused by org.apache.commons.logging.LogConfigurationException:
java.lang.OutOfMemoryError

We looked on google and saw we are not the only ones having this issue. It seems that others have encountered this as well.

=====

```
java.lang.ExceptionInInitializerError
    at
org.springframework.validation.BeanPropertyBindingResult.createBeanWrapper(BeanPropertyBindingR
    at
org.springframework.validation.BeanPropertyBindingResult.getPropertyAccessor(BeanPropertyBindingR
    at
org.springframework.validation.AbstractPropertyBindingResult.getActualFieldValue(AbstractPropertyBin
    at
org.springframework.validation.AbstractBindingResult.rejectValue(AbstractBindingResult.java:177)
    at
org.springframework.validation.AbstractBindingResult.rejectValue(AbstractBindingResult.java:161)
    at org.springframework.validation.BindException.rejectValue(BindException.java:129)
```

Spring integration tests with Team...

```
    at
gov.nyc.doitt.dcla.crms.validation.EnrollmentRequestValidator.validate(EnrollmentRequestValidator.java:
    at
gov.nyc.doitt.dcla.crms.validation.EnrollmentRequestValidatorTest.testValidateInfo2(EnrollmentRequest
    at sun.reflect.NativeMethodAccessorImpl.invoke0(Native Method)
    at sun.reflect.NativeMethodAccessorImpl.invoke(NativeMethodAccessorImpl.java:39)
    at
sun.reflect.DelegatingMethodAccessorImpl.invoke(DelegatingMethodAccessorImpl.java:25)
    at java.lang.reflect.Method.invoke(Method.java:324)
    at junit.framework.TestCase.runTest(TestCase.java:164)
    at junit.framework.TestCase.runBare(TestCase.java:130)
    at junit.framework.TestResult$1.protect(TestResult.java:106)
    at junit.framework.TestResult.runProtected(TestResult.java:124)
    at junit.framework.TestResult.run(TestResult.java:109)
    at junit.framework.TestCase.run(TestCase.java:120)
    at junit.framework.TestSuite.runTest(TestSuite.java:230)
    at junit.framework.TestSuite.run(TestSuite.java:225)
    at
org.apache.tools.ant.taskdefs.optional.junit.JUnit4TestRunner.run(JUnit4TestRunner.java:420)
    at
org.apache.tools.ant.taskdefs.optional.junit.JUnit4Task.executeInVM(JUnit4Task.java:1339)
    at org.apache.tools.ant.taskdefs.optional.junit.JUnit4Task.execute(JUnit4Task.java:831)
    at
org.apache.tools.ant.taskdefs.optional.junit.JUnit4Task.executeOrQueue(JUnit4Task.java:1785)
    at org.apache.tools.ant.taskdefs.optional.junit.JUnit4Task.execute(JUnit4Task.java:785)
    at org.apache.tools.ant.UnknownElement.execute(UnknownElement.java:288)
    at sun.reflect.GeneratedMethodAccessor7.invoke(Unknown Source)
    at
sun.reflect.DelegatingMethodAccessorImpl.invoke(DelegatingMethodAccessorImpl.java:25)
    at java.lang.reflect.Method.invoke(Method.java:324)
    at org.apache.tools.ant.dispatch.DispatchUtils.execute(DispatchUtils.java:106)
    at org.apache.tools.ant.Task.perform(Task.java:348)
    at org.apache.tools.ant.Target.execute(Target.java:357)
    at org.apache.tools.ant.Target.performTasks(Target.java:385)
```

Spring integration tests with Team...

```
at org.apache.tools.ant.Project.executeSortedTargets(Project.java:1337)
at org.apache.tools.ant.Project.executeTarget(Project.java:1306)
at org.apache.tools.ant.helper.DefaultExecutor.executeTargets(DefaultExecutor.java:41)
at org.apache.tools.ant.Project.executeTargets(Project.java:1189)
at org.apache.tools.ant.Main.runBuild(Main.java:758)
at org.apache.tools.ant.Main.startAnt(Main.java:217)
at org.apache.tools.ant.launch.Launcher.run(Launcher.java:257)
at org.apache.tools.ant.launch.Launcher.main(Launcher.java:104)
```

Caused by: org.apache.commons.logging.LogConfigurationException:
org.apache.commons.logging.LogConfigurationException:
java.lang.OutOfMemoryError (Caused by java.lang.OutOfMemoryError) (Caused by
org.apache.commons.logging.LogConfigurationException: java.lang.OutOfMemoryError
(Caused by java.lang.OutOfMemoryError))

```
at
org.apache.commons.logging.impl.LogFactoryImpl.newInstance(LogFactoryImpl.java:543)
at
org.apache.commons.logging.impl.LogFactoryImpl.getInstance(LogFactoryImpl.java:235)
at
org.apache.commons.logging.impl.LogFactoryImpl.getInstance(LogFactoryImpl.java:209)
at org.apache.commons.logging.LogFactory.getLog(LogFactory.java:351)
at org.springframework.beans.BeanWrapperImpl.<clinit>(BeanWrapperImpl.java:78)
... 41 more
```

Caused by: org.apache.commons.logging.LogConfigurationException:
java.lang.OutOfMemoryError (Caused by java.lang.OutOfMemoryError)

```
at
org.apache.commons.logging.impl.LogFactoryImpl.getLogConstructor(LogFactoryImpl.java:397)
at
org.apache.commons.logging.impl.LogFactoryImpl.newInstance(LogFactoryImpl.java:529)
... 45 more
```

Caused by: java.lang.OutOfMemoryError

----- Stdout: -----

junit.framework.TestListener: addError(testValidateInfo2, null)

junit.framework.TestListener: endTest(testValidateInfo2)

Spring integration tests with Team...



[Andrew Gonzalez](#) 6 posts since

Mar 15, 2010 5. **Re: Spring integration tests with Team city: OutOfMemoryError** Mar 16, 2010 11:44 PM

We increased the permanent generation space and the OutOfMemoryError has gone away...

Thank you for your replis...



[Andrew Gonzalez](#) 6 posts since

Mar 15, 2010 6. **Re: Spring integration tests with Team city: OutOfMemoryError** Mar 16, 2010 11:46 PM

I figured out the issue with some helpful hints from Marina and Pavel...