

Running TagUnit Tests from Ant

Like JUnit, TagUnit tests can be executed from the Jakarta Ant build tool so that any custom tag tests can be included as part of the continuous integrate, build and test cycle. To use TagUnit with Ant, simply follow these steps.

Step 1 : Put tagunit-core.jar in the Ant classpath

For Ant to be able to start TagUnit tests, the tagunit-core.jar file needs to be in the the classpath when Ant is started. There are several ways of doing this:

1. Copy tagunit-core.jar into the \$ANT_HOME/lib directory
2. Add tagunit-core.jar to your CLASSPATH environment variable.

Step 2 : Use the <tagunit> task in your Ant build file

To execute TagUnit tests from within ant, simply use the <tagunit> Ant task within your build file. To do this, you must first tell Ant where to find the <tagunit> task with the following (for an alternative method, see the next section):

```
<taskdef name="tagunit" classname="org.tagunit.ant.TagUnitTask"/>
```

Next, simply use the <tagunit> task to point Ant to your TagUnit tests with the following, making that you substitute the highlighted values to point to your own tests.

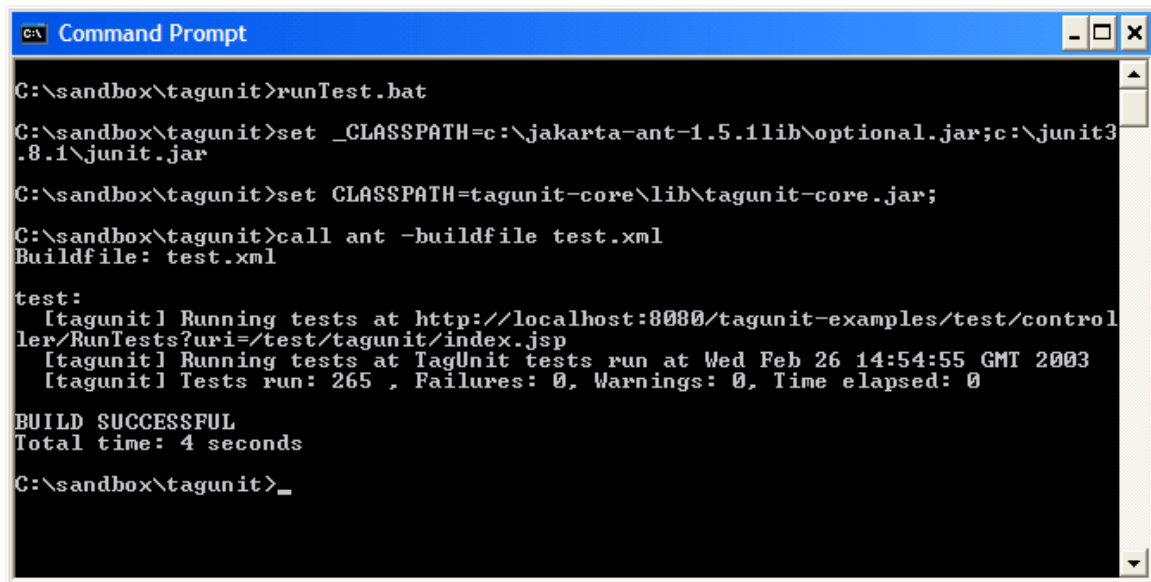
```
<tagunit url="http://localhost:8080/tagunit-  
examples/test/controller/RunTests?uri=/test/tagunit/index.jsp"  
ignoreWarnings="true" stopOnFail="false"/>
```

The parameters to this tag are described below:

Attribute	Description	Required
url	This attribute points to the location of your tests.	Yes
ignoreWarnings	Should warnings be displayed?	No (defaults to true)
stopOnFail	Should failures cause the build to stop?	No (defaults to false)

Step 3 : Start the server

Before you actually run the tests from Ant, don't forget to ensure that the web application/server hosting the TagUnit tests is running. When the tests are then executed, any errors or warnings will be output to the console in a similar way to JUnit test failures. The screenshot below shows an example of this output:



```
C:\ Command Prompt
C:\sandbox\tagunit>runTest.bat
C:\sandbox\tagunit>set _CLASSPATH=c:\jakarta-ant-1.5.1lib\optional.jar;c:\junit3.8.1\junit.jar
C:\sandbox\tagunit>set CLASSPATH=tagunit-core\lib\tagunit-core.jar;
C:\sandbox\tagunit>call ant -buildfile test.xml
Buildfile: test.xml

test:
 [tagunit] Running tests at http://localhost:8080/tagunit-examples/test/controler/RunTests?uri=/test/tagunit/index.jsp
 [tagunit] Running tests at TagUnit tests run at Wed Feb 26 14:54:55 GMT 2003
 [tagunit] Tests run: 265 , Failures: 0, Warnings: 0, Time elapsed: 0

BUILD SUCCESSFUL
Total time: 4 seconds

C:\sandbox\tagunit>_
```

Installing the TagUnit task into Ant

Another way to add the task (more permanently), is to add the task name and implementing class name to the `default.properties` file in the `org.apache.tools.ant.taskdefs` package. Then you can use it as if it were a built-in task, without the `<task-def>` tag.

You should add the following line to the `default.properties` file. This file can be found within the `ant.jar` file. Once you have made the change you can simply jar the files up again and the task will be visible to ant.

```
tagunit=org.tagunit.ant.TagUnitTask
```