

Android Public Tracker > App Development > Android Studio > Gradle > Android Gradle Plugin 37098629

androidTestCompile & testCompile Don't Work With Modified Source Sets

+1 32 Hotlists (11) Mark as Duplicate

Comments (11) Dependencies Duplicates (0) Blocking (0) Resources (4)

Obsolete Bug P1 + [AOSP] Version-Studio-2.1 Migrated-Tools-Studio

STATUS UPDATE No update yet. Edit

DESCRIPTION

an...@gmail.com created issue #1

May 14, 2016 03:42AM

If you have a modified source sets in your gradle file:

```
sourceSets {
    main {
        manifest.srcFile 'AndroidManifest.xml'
        java.srcDirs = ['src']
        resources.srcDirs = ['src']
        aidl.srcDirs = ['src']
        renderscript.srcDirs = ['src']
        res.srcDirs = ['res']
        assets.srcDirs = ['assets']
        jniLibs.srcDirs = ['libs']
    }
}
```

Then using androidTestCompile and testCompile does not work with unit testing. It doesn't matter if its for .jars in your libs folder or maven repos. It will not compile. However, the compiler will let you import and use the classes just fine, it's only when you go to build the APK or run the Unit Test (or Instrumentation Test) that it crashes with the "not found" error.

The fix is changing androidTestCompile to just compile. This fixes the issue but of course adds an unnecessary library to your production apk.

StackOverflow issues that confirm the problem:
<http://stackoverflow.com/questions/37061863/android-studio-2-1-error-package-org-junit-does-not-exist>
<http://stackoverflow.com/questions/37062174/error-package-org-hamcrest-does-not-exist-android-studio-1-5-1/37062334#37062334>

Links (4) Hide all

Links (4)

"http://stackoverflow.com/questions/37061863/android-studio-2-1-error-package-or..." an...@ #1

"http://stackoverflow.com/questions/37062174/error-package-org-hamcrest-does-not-exist-android-studi..." an...@ #1

"https://stackoverflow.com/questions/14381694/why-is-the-android-test-runner-repo..." bo...@ #8

"https://i.stack.imgur.com/QI1Pw.png" bo...@ #8

COMMENTS

All comments Oldest first

gu...@gmail.com <gu...@gmail.com> #2

Oct 6, 2016 09:08AM

Happens in 2.2

ga...@gmail.com <ga...@gmail.com> #3

Dec 18, 2016 09:16PM

Problem persists in 2.2.3

fr...@gmail.com <fr...@gmail.com> #4

Jan 8, 2017 04:27PM

Having same problem, dont know how to implement the fix...? 2.2.3

di...@gmail.com <di...@gmail.com> #5

Feb 25, 2017 08:34PM

Just ran into this in Studio 2.2.2. Is there really no workaround other than compiling junit into production APK?

mu...@gmail.com <mu...@gmail.com> #6

Nov 1, 2018 11:16PM

Having the same problem, in android studio 3.1.4. Let us know anyone, how to fix this issue

st...@gmail.com <st...@gmail.com> #7

Nov 17, 2018 01:36AM

Reporter

an...@gmail.com

Type

Bug

Priority

P1

Severity

S3

Status

Won't fix (Obsolete)

Access

Default access View

Assignee

am...@google.com

Verifier

--

Collaborators

CC

an...@gmail.com

an...@google.com

as...@google.com

sm...@google.com

so...@google.com

AOSP ID

209832

Blocking Release

--

Release Status

--

Found In

--

Targeted To

--

Verified In

--

In Prod

Show 1 additional field

Can confirm this issue for 3.2.1 as well. Seems like no one is interested...

Edit: I have to correct myself; using

```
android.sourceSets.test.setRoot('...')
android.sourceSets.androidTest.setRoot('...')
```

in my module's build.gradle fixed this issue for me.

Message last modified on Nov 17, 2018 02:04AM

bo...@gmail.com <bo...@gmail.com> [#8](#)

Feb 13, 2019 08:32AM ⋮

This helped me fix it.

<https://stackoverflow.com/questions/14381694/why-is-the-android-test-runner-reporting-empty-test-suite>

<https://i.stack.imgur.com/Ql1Pw.png>

I did make a couple other changes like explicitly set the test and androidTest root to somewhere else.

sm...@google.com <sm...@google.com>

Feb 14, 2019 01:57AM

Reassigned to cm...@google.com.

ti...@gmail.com <ti...@gmail.com> [#9](#)

Sep 15, 2019 10:40PM ⋮

Issue still exist in AS 3.5 and gradle 3.5.0

re...@google.com <re...@google.com> [#10](#)

Jan 20, 2020 06:29PM ⋮

workaround for `testImplementation`: define "test" as a source set.

(My guess is that `androidTestImplementation` will have a similar workaround)

app's build.gradle:

```
android {
    ...

    sourceSets {
        main {
            manifest.srcFile 'AndroidManifest.xml'
            java.srcDirs = ['src']
            resources.srcDirs = ['src']
            aidl.srcDirs = ['src']
            renderscript.srcDirs = ['src']
            res.srcDirs = ['res']
            assets.srcDirs = ['assets']
            jni.srcDirs = []
            jniLibs.srcDir 'jniLibs'
            proto.srcDirs = ['../JNI/protos']
        }
        test {
            java.srcDirs file('test/java') // different folder for java unit tests
            resources.srcDirs file('test/resources') // different folder for test resources (files)
            sourceCompatibility = JavaVersion.VERSION_1_8 // assert compilation will behave well
            targetCompatibility = JavaVersion.VERSION_1_8 // assert compilation will behave well

            // notice: lines below are basically copy & paste of all variables from "main" source set.
            // if your "main" is different, those should be matching your "main"
            aidl.srcDirs = ['src']
            renderscript.srcDirs = ['src']
            res.srcDirs = ['res']
            assets.srcDirs = ['assets']
            jni.srcDirs = []
            jniLibs.srcDir 'jniLibs'
            proto.srcDirs = ['../JNI/protos']
        }
    }
}
```

am...@google.com <am...@google.com> [#11](#)

May 23, 2023 07:47PM ⋮

Status: Won't Fix (Obsolete)

This issue is obsolete (verified manually), probably got fixed when we migrated unitTests to run via gradle.

