← ↻ ☆ Instrumented test run fails on Emulator with: Test framework quit unexpectedly   +1 ³ Hotlists (1) Mark as Duplicate 🔔 ⋮

Comments (15) Dependencies Duplicates (0) Blocking (0) Resources (10)

Fixed Bug P3 ⊕ Add Hotlist

👥 **STATUS UPDATE** No update yet. Edit

📄 **DESCRIPTION** ro...@gmail.com created issue #1

Build: AI-193.6911.18.41.6362631, 202004031740,

AI-193.6911.18.41.6362631, JRE 1.8.0_242-release-1644-b01x64 JetBrains s.r.o, OS Windows 10(amd64) v10.0 , screens 1920x1080, 1680x1050

AS: 4.1 Canary 5; Kotlin plugin: 1.4-M1-release-Studio4.0-1; Android Gradle Plugin: 4.1.0-alpha05; Gradle: 6.3; NDK: from local.properties: (not specified), latest from SDK: (not found); LLDB: LLDB

IMPORTANT: Please read https://developer.android.com/studio/report-bugs.html carefully and supply all required information.

Additionally I get the following irritating warning in the console which may or may not be related:

5:34 PM Emulator: emulator: WARNING: GrpcServices.cpp:105: Cannot find certfile: C:\Users\usr\.android\emulator-grpc.cer security will be disabled.

5:34 PM Emulator: Started GRPC server at 127.0.0.1:8554

✓ Mentioned issues (2)   ✓ Links (7)

⚙ **Mentioned issues (2)**

P1 "Test framework quit unexpectedly" after running Espresso tests in Studio 3.6 "https://issuetracker.google.com/144788300"

P1 FragmentScenario requires modification to non-test code to work "https://issuetracker.google.com/128612536"

🔗 **Links (7)**

"IMPORTANT: Please read https://developer.android.com/studio/report-bugs.html carefully and supply all required information."
"http://127.0.0.1:8554"
"http://com.android.commands.am.Am"
"http://proguard-rules.pro"
"https://dl.bintray.com/kotlin/kotlin-eap"

See all related links

COMMENTS

○ **ro...@gmail.com** <ro...@gmail.com> #2

Please find a sample test project attached.

📎 **1001-AndroidTesting.zip**
493 KB Download

○ **di...@google.com** <di...@google.com>

Assigned to an...@google.com.

○ **ro...@gmail.com** <ro...@gmail.com> #3

$ adb shell am instrument -w -m -e debug false -e class 'com.example.android.architecture.blueprints.todoapp.ExampleInstrumentedTest#useAppContext' com.example.android.architecture
Tests ran to completion.

○ **ro...@gmail.com** <ro...@gmail.com> #4

11:31 PM Emulator: emulator: WARNING: GrpcServices.cpp:105: Cannot find certfile: C:\Users\ccc.android\emulator-grpc.cer security will be disabled.

11:31 PM Emulator: Started GRPC server at 127.0.0.1:8554

11:31 PM Emulator: emulator: WARNING: System.cpp:1142: Ignoring invalid parameter detected in function: 0000000000000000 file: 0000000000000000, line: 0, expression: 00000000000000

11:31 PM Emulator: emulator: WARNING: System.cpp:1142: Ignoring invalid parameter detected in function: 0000000000000000 file: 0000000000000000, line: 0, expression: 00000000000000

11:31 PM Emulator: emulator: WARNING: System.cpp:1142: Ignoring invalid parameter detected in function: 0000000000000000 file: 0000000000000000, line: 0, expression: 00000000000000

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

https://issuetracker.google.com/issues/144788300 Maybe this is a related or a different issue but definitely not fixed in 4.1 yet.

ar...@google.com <ar...@google.com> #6

Can you share which version of the emulator and system image are you using? Thanks

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

Please, check the attached screenshot: 30.0.9

📎 **Capture3.PNG**
13 KB View Download

lf...@google.com <lf...@google.com> #8

Reassigned to lf...@google.com.

Can we see the logcat as the test runs?

ro...@gmail.com <ro...@gmail.com> #9

This looks like the interesting part:

```
        --------- beginning of system
  2020-04-21 00:59:26.031 2045-5537/? I/ActivityManager: Force stopping com.example.android.architecture.blueprints.reactive appid=10145 user=0: from pid 15
  2020-04-21 00:59:26.052 2303-2303/? D/CarrierSvcBindHelper: No carrier app for: 0
  2020-04-21 00:59:26.183 2045-5537/? W/ActivityManager: Invalid packageName: com.example.android.architecture.blueprints.reactive.test
  2020-04-21 00:59:26.327 15365-15365/? D/AndroidRuntime: >>>>>> START com.android.internal.os.RuntimeInit uid 2000 <<<<<<
  2020-04-21 00:59:26.329 15365-15365/? E/libc: Access denied finding property "persist.device_config.runtime_native_boot.enable_apex_image"
  2020-04-21 00:59:26.330 15365-15365/? I/AndroidRuntime: Using default boot image
  2020-04-21 00:59:26.330 15365-15365/? E/libc: Access denied finding property "persist.device_config.runtime_native_boot.disable_lock_profiling"
  2020-04-21 00:59:26.330 15365-15365/? I/AndroidRuntime: Leaving lock profiling enabled
  2020-04-21 00:59:26.322 15365-15365/? W/app_process: type=1400 audit(0.0:73): avc: denied { read } for name="u:object_r:device_config_runtime_native_boot_
  2020-04-21 00:59:26.331 15365-15365/? E/libc: Access denied finding property "persist.device_config.runtime_native_boot.enable_generational_cc"
  2020-04-21 00:59:26.322 15365-15365/? W/app_process: type=1400 audit(0.0:75): avc: denied { read } for name="u:object_r:device_config_runtime_native_boot_
  2020-04-21 00:59:26.390 15365-15365/? D/ICU: Time zone APEX file found: /apex/com.android.tzdata/etc/icu/icu_tzdata.dat
  2020-04-21 00:59:26.395 15365-15365/? W/app_process: Unexpected CPU variant for X86 using defaults: x86
  2020-04-21 00:59:26.398 15365-15365/? I/app_process: The ClassLoaderContext is a special shared library.
  2020-04-21 00:59:26.422 15365-15365/? W/app_process: JNI RegisterNativeMethods: attempt to register 0 native methods for android.media.AudioAttributes
  2020-04-21 00:59:26.426 15365-15365/? D/AndroidRuntime: Calling main entry com.android.commands.am.Am
  2020-04-21 00:59:26.430 2045-5537/? W/ActivityManager: Unable to find instrumentation info for: ComponentInfo{com.example.android.architecture.blueprints.
  2020-04-21 00:59:26.431 2045-15378/? W/Binder: Outgoing transactions from this process must be FLAG_ONEWAY
      java.lang.Throwable
          at android.os.BinderProxy.transact(BinderProxy.java:480)
          at android.app.IInstrumentationWatcher$Stub$Proxy.instrumentationStatus(IInstrumentationWatcher.java:172)
          at com.android.server.am.InstrumentationReporter$MyThread.run(InstrumentationReporter.java:80)
  2020-04-21 00:59:26.434 15365-15365/? I/app_process: System.exit called, status: 1
  2020-04-21 00:59:26.434 15365-15365/? I/AndroidRuntime: VM exiting with result code 1.
  2020-04-21 00:59:26.735 1791-2300/? E/GnssHAL_GnssInterface: gnssSvStatusCb: a: input svInfo.flags is 8
  2020-04-21 00:59:26.735 1791-2300/? E/GnssHAL_GnssInterface: gnssSvStatusCb: b: input svInfo.flags is 8
  2020-04-21 00:59:26.818 11096-11224/? I/MicroDetectionWorker: #startMicroDetector [speakerMode: 0]
  2020-04-21 00:59:26.822 11096-11224/? W/ErrorReporter: reportError [type: 211, code: 393244, bug: 0]: errorCode: 393244, engine: 0
  2020-04-21 00:59:26.825 11096-11224/? I/MicroDetector: Keeping mic open: false
  2020-04-21 00:59:26.825 11096-11224/? I/MicroDetectionWorker: #onError(false)
```

ar...@google.com <ar...@google.com> #10

This appear to be an app issue. Using the repro project you provided, when running the test, Studio is trying to do:

```
adb shell am instrument -w -m -e debug false -e class 'com.example.android.architecture.blueprints.todoapp.ExampleInstrumentedTest#useAppContext' com.exampl
```

Notice it's referring to com.example.android.architecture.blueprints.**reactive**.test

Looking at available instrumentation packages `adb shell pm list instrumentation` shows we have a mismatch `instrumentation:com.example.android.architecture.blueprints.`

Changing the android.defaultConfig.applicationId in app/build.gradle to the correct `...blueprints.todoapp` fixes the issue.

Please let me know if this fixes the issue on your end too.

ro...@gmail.com <ro...@gmail.com> #11

Thank you for taking a look at that. Just renaming the package id didn't help. I get some junit runner exception. I'll need to investigate further. I tried the empty sample project and the default
Would it be possible for the test framework to display a meaningful error message than just quitting.

---

ar...@google.com <ar...@google.com>

Reassigned to ro...@gmail.com.

---

ro...@gmail.com <ro...@gmail.com> #12

Adding any of these (updated to the versions suggested by AS):

```
debugImplementation "androidx.fragment:fragment-testing:$fragmentVersion"
implementation "androidx.test:core:$androidXTestCoreVersion"
```

causes

```
2020-04-25 15:23:46.198 9845-9877/com.example.android.architecture.blueprints.todoapp E/AndroidRuntime: FATAL EXCEPTION: Instr: androidx.test.runner.Andro
    Process: com.example.android.architecture.blueprints.todoapp, PID: 9845
    java.lang.NoSuchMethodError: No virtual method shouldWaitForActivitiesToComplete()Z in class Landroidx/test/runner/AndroidJUnitRunner; or its super cl
        at androidx.test.runner.AndroidJUnitRunner.addListenersLegacyOrder(AndroidJUnitRunner.java:442)
        at androidx.test.runner.AndroidJUnitRunner.addListeners(AndroidJUnitRunner.java:423)
        at androidx.test.runner.AndroidJUnitRunner.onStart(AndroidJUnitRunner.java:391)
        at android.app.Instrumentation$InstrumentationThread.run(Instrumentation.java:2189)
```

I also had to remove Roboelectric etc. references which caused issues on their own.

```
//apply plugin: 'com.android.application'
//apply plugin: 'kotlin-android'
//apply plugin: 'kotlin-kapt'
//apply plugin: "androidx.navigation.safeargs.kotlin"

plugins {
    id 'com.android.application'
    id 'kotlin-android'
    id 'kotlin-kapt'
    id 'androidx.navigation.safeargs.kotlin'
    id 'kotlin-android-extensions'
}

android {

    compileSdkVersion rootProject.compileSdkVersion

    defaultConfig {
        applicationId "com.example.android.architecture.blueprints.todoapp"
        minSdkVersion rootProject.minSdkVersion
        targetSdkVersion rootProject.targetSdkVersion
        versionCode 1
        versionName "1.0"
        testInstrumentationRunner "androidx.test.runner.AndroidJUnitRunner"
    }

    // Deprecated and replaced by buildFeatures
//    dataBinding {
//        enabled true
//        enabledForTests true
//    }
    buildFeatures {
        dataBinding true
        //dataBindingForTests true
    }
    buildTypes {
        release {
            minifyEnabled false
            proguardFiles getDefaultProguardFile('proguard-android-optimize.txt'), 'proguard-rules.pro'
        }
    }

//    compileOptions {
//        sourceCompatibility JavaVersion.VERSION_1_8
//        targetCompatibility JavaVersion.VERSION_1_8
//    }
//    kotlinOptions {
//        jvmTarget = '1.8'
//    }

    compileOptions {
```

```
            sourceCompatibility = JavaVersion.VERSION_1_8
            targetCompatibility = JavaVersion.VERSION_1_8
        }
        kotlinOptions {
            jvmTarget = JavaVersion.VERSION_1_8
        }


        // Always show the result of every unit test when running via command line, even if it passes.
        testOptions.unitTests {
            includeAndroidResources = true
        }

//      configurations.all {
//          resolutionStrategy {
//              force "androidx.test:monitor:${rootProject.androidxTestRunner}"
//          }
//      }

//      configurations.all {
//          resolutionStrategy {
//              force "androidx.test:monitor:${rootProject.androidxTestRunner}"
//          }
//      }
}

dependencies {

    // App dependencies
    implementation "androidx.appcompat:appcompat:$appCompatVersion"
    implementation "androidx.cardview:cardview:$cardVersion"
    implementation "com.google.android.material:material:$materialVersion"
    implementation "androidx.recyclerview:recyclerview:$recyclerViewVersion"
    implementation "androidx.annotation:annotation:$androidXAnnotations"
    implementation "org.jetbrains.kotlinx:kotlinx-coroutines-android:$coroutinesVersion"
    implementation "com.jakewharton.timber:timber:$timberVersion"
    implementation "androidx.legacy:legacy-support-v4:$androidXLegacySupport"
    implementation "androidx.room:room-runtime:$roomVersion"
    kapt "androidx.room:room-compiler:$roomVersion"

    // Architecture Components
    implementation "androidx.room:room-runtime:$roomVersion"
    kapt "androidx.room:room-compiler:$roomVersion"
    implementation "androidx.room:room-ktx:$roomVersion"
    implementation "androidx.lifecycle:lifecycle-extensions:$archLifecycleVersion"
    // Use the Lifecycle Java 8 API provided by lifecycle-common-java8 library instead of Lifecycle
    // annotations for faster incremental build
    // kapt "androidx.lifecycle:lifecycle-compiler:$archLifecycleVersion"
    kapt "androidx.lifecycle:lifecycle-common-java8:$archLifecycleVersion"
    implementation "androidx.lifecycle:lifecycle-viewmodel-ktx:$archLifecycleVersion"
    implementation "androidx.lifecycle:lifecycle-livedata-ktx:$archLifecycleVersion"
    implementation "androidx.navigation:navigation-fragment-ktx:$navigationVersion"
    implementation "androidx.navigation:navigation-ui-ktx:$navigationVersion"

    // Dependencies for local unit tests
//      testImplementation "junit:junit:$junitVersion"

    // Assertion frameworks
    testImplementation "org.hamcrest:hamcrest-all:$hamcrestVersion"

    // AndroidX Test - JVM testing
//      testImplementation "androidx.test:core-ktx:$androidXTestCoreVersion"
//      testImplementation "org.robolectric:robolectric:$robolectricVersion"
//      testImplementation "androidx.test.ext:junit-ktx:$androidXTestExtKotlinRunnerVersion"
//
//      testImplementation "androidx.arch.core:core-testing:$archTestingVersion"
//
//      testImplementation "org.jetbrains.kotlinx:kotlinx-coroutines-test:$coroutinesVersion"


    // AndroidX Test - Instrumented testing
//      androidTestImplementation "androidx.test.ext:junit:$androidXTestExtKotlinRunnerVersion"
//      androidTestImplementation "androidx.test.espresso:espresso-core:$espressoVersion"

    // Testing code should not be included in the main code.
    // Once https://issuetracker.google.com/128612536 is fixed this can be fixed.

    //debugImplementation "androidx.fragment:fragment-testing:$fragmentVersion"

//      implementation "androidx.test:core:$androidXTestCoreVersion"
```

```
    //      androidTestImplementation "androidx.test:runner:${testRunner}"
    //      androidTestImplementation "androidx.test.espresso:espresso-intents:$espressoVersion"

    // Kotlin
    implementation "org.jetbrains.kotlin:kotlin-stdlib-jdk7:$kotlinVersion"
    implementation "androidx.fragment:fragment-ktx:$fragmentKtxVersion"

    // AndroidX Test - JVM testing
    testImplementation "junit:junit:$junitVersion"
    androidTestImplementation "androidx.test.ext:junit:$androidXTestExtKotlinRunnerVersion"

    //testImplementation "androidx.test:core-ktx:$androidXTestCoreVersion"
    //testImplementation "androidx.test.ext:junit-ktx:$androidXTestExtKotlinRunnerVersion"
    //
    //      testImplementation "androidx.arch.core:core-testing:$archTestingVersion"
    //
    // Kotlin - Kotlin testing
    testImplementation "org.jetbrains.kotlinx:kotlinx-coroutines-test:$coroutinesVersion"

    // AndroidX Test - Instrumented testing
    androidTestImplementation "androidx.test.espresso:espresso-core:$espressoVersion"
    //debugImplementation "androidx.fragment:fragment-testing:$fragmentVersion"

    //debugImplementation "androidx.fragment:fragment-testing:$fragmentVersion"
    implementation "androidx.test:core:$androidXTestCoreVersion"

}
```

ro...@gmail.com <ro...@gmail.com> #13

```
ext {
    // Sdk and tools
    // Support library and architecture components support minSdk 14 and above.
    minSdkVersion = 24
    targetSdkVersion = 29
    compileSdkVersion = 29

    // App dependencies
    androidXVersion = '1.0.0'
    androidXTestCoreVersion = '1.2.0'
    androidXTestExtKotlinRunnerVersion = '1.1.1'
    androidxTestRunner = "1.3.0-alpha02"
    androidXTestRulesVersion = '1.2.0-beta01'
    androidXAnnotations = '1.1.0'
    androidXLegacySupport = '1.0.0'
    appCompatVersion = '1.1.0'
    //archLifecycleVersion = '2.3.0-alpha01'
    archLifecycleVersion = '2.2.0'
    archTestingVersion = '2.1.0'
    cardVersion = '1.0.0'
    coroutinesVersion = '1.3.0'
    dexMakerVersion = '2.12.1'
    espressoVersion = '3.3.0-beta01'
    //espressoVersion = '3.2.0'
    fragmentVersion = '1.3.0-alpha03'
    fragmentKtxVersion = '1.3.0-alpha03'
    hamcrestVersion = '1.3'
    junitVersion = '4.13'
    materialVersion = '1.1.0'
    mockitoVersion = '2.8.9'
    recyclerViewVersion = '1.1.0'
    robolectricVersion = '4.3.1'
    roomVersion = '2.2.5'
    rulesVersion = '1.0.1'
    timberVersion = '4.7.1'
    truthVersion = '0.44'
    testRunner= '1.3.0-alpha05'
}
```

ro...@gmail.com <ro...@gmail.com> #14

I was using Android Studio's Suggestions to update the variables to the recommended version. It looks like it doesn't always suggest the latest version. After I manually updated the versions

Also AS suggest to upgrade to `archLifecycleVersion = '2.3.0-alpha01'` but that doesn't resolve.

This is a build.gradle that works:

```
buildscript {
    ext.kotlinVersion = '1.4-M1'
    ext.navigationVersion = '2.3.0-alpha05'
    ext.gradlePluginVersion = '4.1.0-alpha08'
    repositories {
        google()
        jcenter()
        maven { url = "https://dl.bintray.com/kotlin/kotlin-eap" }
    }
    dependencies {
        classpath "com.android.tools.build:gradle:${gradlePluginVersion}"
        classpath "org.jetbrains.kotlin:kotlin-gradle-plugin:$kotlinVersion"
        classpath "androidx.navigation:navigation-safe-args-gradle-plugin:$navigationVersion"

        // NOTE: Do not place your application dependencies here; they belong
        // in the individual module build.gradle files
    }
}

allprojects {
    repositories {
        google()
        jcenter()
        maven { url = "https://dl.bintray.com/kotlin/kotlin-eap" }
        //maven { url = "https://maven.google.com/" }
    }
}

task clean(type: Delete) {
    delete rootProject.buildDir
}

// Define versions in a single place
ext {
    // Sdk and tools
    // Support library and architecture components support minSdk 14 and above.
    minSdkVersion = 24
    targetSdkVersion = 29
    compileSdkVersion = 29

    // App dependencies
    androidXVersion = '1.0.0'
    androidXTestCoreVersion = '1.3.0-beta01'
    androidXTestExtKotlinRunnerVersion = '1.1.2-beta01'
    androidxTestRunner = '1.3.0-beta01'
    androidXTestRulesVersion = '1.3.0-beta01'
    androidXAnnotations = '1.1.0'
    androidXLegacySupport = '1.0.0'
    appCompatVersion = '1.1.0'
    //archLifecycleVersion = '2.3.0-alpha01'
    archLifecycleVersion = '2.2.0'
    archTestingVersion = '2.1.0'
    cardVersion = '1.0.0'
    coroutinesVersion = '1.3.0'
    dexMakerVersion = '2.12.1'
    espressoVersion = '3.3.0-beta01'
    fragmentVersion = '1.3.0-alpha03'
    fragmentKtxVersion = '1.3.0-alpha03'
    hamcrestVersion = '1.3'
    junitVersion = '4.13'
    materialVersion = '1.1.0'
    mockitoVersion = '2.8.9'
    recyclerViewVersion = '1.1.0'
    robolectricVersion = '4.3.1'
    roomVersion = '2.2.5'
    rulesVersion = '1.0.1'
    timberVersion = '4.7.1'
    truthVersion = '0.44'
    testRunner= '1.3.0-beta01'
}
```

ar...@google.com <ar...@google.com>

Marked as fixed.

Great to hear you're able to get it working. Regarding `archLifecycleVersion = '2.3.0-alpha01'`, that's because lifecycle-extensions artifact is now deprecated, and that's the one not res