

Comments (9) Dependencies Duplicates (0) Blocking (0) Resources (4)

Fixed Bug P1 + Add Hotlist

STATUS UPDATE No update yet. Edit

DESCRIPTION au...@google.com created issue #1 Oct 4, 2022 09:43AM

compose/compiler/compiler-hosted/integration-tests/build.gradle currently has

```
// tools.jar required for com.sun.jdi
def toolsJar
if (JavaVersion.current().getMajorVersion() == "8") {
    toolsJar = ((URLClassLoader) ToolProvider.getSystemToolClassLoader()).getURLs()
} else if (System.env.JAVA_TOOLS_JAR != null) {
    toolsJar = System.env.JAVA_TOOLS_JAR
} else {
    throw new Exception("If you are not using Java 8, JAVA_TOOLS_JAR env variable " +
        "needs to be set to tools.jar from a Java 8 installation to build Doclava")
}
```

There is no more tools.jar in JDK 11 onwards and 17 in fact breaks several classes from it. Please remove this usage as it is the last remaining usage of tools.jar

Links (4) Hide all

- Links (4)
- "There is <https://android-review.googlesource.com/q/topic:androidx-jdk17> to upgrade JDK 17, but you should be able to remove this usage out of the band." au...@ #3
- "...it seems that these tests fail on JDK 17 <https://android-build.googleplex.com/builds/tests/view?invocationId=I43500010095608521&testResultId=TR66028301384821172>" au...@ #4
- "<https://youtrack.jetbrains.com/issue/KT-20740>" js...@ #5
- "<https://android-review.googlesource.com/2768008>" ap...@ #9

COMMENTS All comments Oldest first

an...@google.com <an...@google.com> Reassigned to js...@google.com. Oct 5, 2022 12:51AM

js...@google.com <js...@google.com> #2 Oct 5, 2022 01:26AM

Are we switching to Java 9+? Sounds like maybe you're trying to switch to Java11?

We use the Java Debug Interface (JDI) within our tests. I don't think we could reasonably remove the usage of that API without losing test coverage, and therefore could not remove the tools.jar dependency while targeting Java8.

My understanding is that Java9 promotes these JDI APIs from their old location (tools.jar) to a more suitable/official jdk9 module (jdk.jdi) and the JDI APIs are promoted to first-class JDK API instead of being a separate jar. Without having tried it myself, I think this means that aside from adding the jdk.jdi module to the dependencies (which can't be done prior to java9 and thus must be done as part of the upgrade), the package names remain the same, so no further action should be necessary.

@Aurimas: If you have a WIP CL that you need help unbreaking our tests, let me know, but otherwise I think there is no action necessary on our end here?

au...@google.com <au...@google.com> #3 Oct 5, 2022 03:58AM

We have been on JDK 11 for a while. To be able to upgrade to that, we added ANDROID_TOOLS_JAR and checked in tools.jar into our checkout. This continued to work on JDK 11. We are not upgrading to JDK 17, and this project is the only user of tools.jar, so i would like to remove it as it is causing complexity to our checkout (e.g. playground requires users to have two JDKs installed to make it work).

There is <https://android-review.googlesource.com/q/topic:androidx-jdk17> to upgrade JDK 17, but you should be able to remove this usage out of the band.

I don't have much familiarity with jdk9 modules, so you'll need to search online or chat with AGP team on how to load it properly.

au...@google.com <au...@google.com> #4 Oct 5, 2022 11:15PM

Actually it seems that these tests fail on JDK 17 <https://android-build.googleplex.com/builds/tests/view?invocationId=I43500010095608521&testResultId=TR66028301384821172>

It requires a workaround `t.jvmArgs += ["--add-opens=jdk.jdi/com.sun.tools.jdi=ALL-UNNAMED"]`

js...@google.com <js...@google.com> #5

Well, this looks rather annoying/frustrating:

<https://youtrack.jetbrains.com/issue/KT-20740>

js...@google.com <js...@google.com> [#6](#)

Oct 6, 2022 01:11PM

Actually, I don't think KT-20740 applies to us because I don't think we're building in modular mode (e.g. with module-info.java present).

Interestingly, removing the reference to `tools.jar`, building `./gradlew --ci :compose:compiler:compiler-hosted:integration-tests:compileDebugUnitTestKotlin --no-daemon` will succeed on my Mac and fail on my Linux cloudfpox.

The error message appears to be complaining about "Unresolved reference" rather than `Symbol is declared in module ... which does not export package ...` which would seem to indicate that the issue is somehow related to the `jdk.jni` not being found within the Linux JDK. Manually invoking `javac` from the `jdk` found in linux prebuilts seems to be able to resolve `com.sun.jdi.*`; so that would seem to narrow down the problem pretty dramatically. Still digging.

js...@google.com <js...@google.com> [#7](#)

Oct 7, 2022 07:55AM

Yeah, ok, this test setup looks pretty harebrained.

I suspect what's going on is that we are building against `android.jar` (the Android SDK/JDK - which is just fake Android stubs) instead of the desktop JDK, but then we execute the tests using Desktop JDK. The `android.jar` doesn't include JDI, but since we know the tests are actually going to run in the Desktop JDK, we can steal the `tools.jar` from the desktop JDK, and include that on the classpath, and calls to that API will work because it is compatible with the desktop JDK.

The fact the build succeeds on Mac is still a bit mysterious, but it wouldn't surprise me if for whatever reason the desktop/platform JVM classes are somehow leaking into the build.

Probably the best thing here is to do the build+run the tests as regular JVM tests rather than trying to pretend it's an Android module and then depending on JDI anyway. We should probably do this migration while decoupling the compose compiler/runtime tests from Compose UI, which creates tons of problems in trying to run the tests in isolation on playground for instance.

au...@google.com <au...@google.com> [#8](#)

Apr 28, 2023 12:27PM

I would like to bring this back up again. I would like to remove `jdk8` from `androidx` checkout. Can we please do something to address this?

ap...@google.com <ap...@google.com> [#9](#)

Oct 12, 2023 08:20AM

Marked as fixed.

Project: platform/frameworks/support

Branch: androidx-main

commit 260342591f6e123ece3b44ac089c53459d048b4a

Author: Jim S <jsproch@google.com>

Date: Mon Oct 02 11:24:29 2023

Refactor compiler integration tests into KMP project, remove explicit `tools.jar` reference

Fixes: 250699299

Change-Id: Ia65768c8e9b9d6c2722deff0280d351d933399cd

```
M compose/compiler/compiler-hosted/integration-tests/build.gradle
A compose/compiler/compiler-hosted/integration-tests/protobuf-test-classes/build.gradle
M compose/compiler/compiler-hosted/integration-tests/protobuf-test-classes/src/main/proto/stability_test.proto
M compose/compiler/compiler-hosted/integration-tests/src/androidUnitTest/kotlin/androidx/compose/compiler/plugins/kotlin/AbstractCodegenSignatureTest.kt
M compose/compiler/compiler-hosted/integration-tests/src/androidUnitTest/kotlin/androidx/compose/compiler/plugins/kotlin/AbstractLoweringTests.kt
M compose/compiler/compiler-hosted/integration-tests/src/androidUnitTest/kotlin/androidx/compose/compiler/plugins/kotlin/CodegenMetadataTests.kt
M compose/compiler/compiler-hosted/integration-tests/src/androidUnitTest/kotlin/androidx/compose/compiler/plugins/kotlin/ComposeCallLoweringTests.kt
M compose/compiler/compiler-hosted/integration-tests/src/androidUnitTest/kotlin/androidx/compose/compiler/plugins/kotlin/ComposerParamSignatureTests.kt
M compose/compiler/compiler-hosted/integration-tests/src/androidUnitTest/kotlin/androidx/compose/compiler/plugins/kotlin/DurableFunctionKeyCodegenTests.kt
M compose/compiler/compiler-hosted/integration-tests/src/androidUnitTest/kotlin/androidx/compose/compiler/plugins/kotlin/FcsTypeResolutionTests.kt
M compose/compiler/compiler-hosted/integration-tests/src/androidUnitTest/kotlin/androidx/compose/compiler/plugins/kotlin/KtxCrossModuleTests.kt
M compose/compiler/compiler-hosted/integration-tests/src/androidUnitTest/kotlin/androidx/compose/compiler/plugins/kotlin/KtxTransformationTest.kt
M compose/compiler/compiler-hosted/integration-tests/src/androidUnitTest/kotlin/androidx/compose/compiler/plugins/kotlin/LambdaMemoizationTests.kt
M compose/compiler/compiler-hosted/integration-tests/src/androidUnitTest/kotlin/androidx/compose/compiler/plugins/kotlin/LiveLiteralCodegenTests.kt
M compose/compiler/compiler-hosted/integration-tests/src/androidUnitTest/kotlin/androidx/compose/compiler/plugins/kotlin/RobolectricComposeTester.kt
M compose/compiler/compiler-hosted/integration-tests/src/androidUnitTest/kotlin/androidx/compose/compiler/plugins/kotlin/RunComposableTests.kt
M compose/compiler/compiler-hosted/integration-tests/src/androidUnitTest/proto/stability_test.proto
M compose/compiler/compiler-hosted/integration-tests/src/desktopTest/kotlin/androidx/compose/compiler/plugins/kotlin/debug/AbstractDebuggerTest.kt
M compose/compiler/compiler-hosted/integration-tests/src/desktopTest/kotlin/androidx/compose/compiler/plugins/kotlin/debug/LocatableEventExtensions.kt
M compose/compiler/compiler-hosted/integration-tests/src/desktopTest/kotlin/androidx/compose/compiler/plugins/kotlin/debug/StepTest.kt
M compose/compiler/compiler-hosted/integration-tests/src/desktopTest/kotlin/androidx/compose/compiler/plugins/kotlin/debug/clientserver/TestProcessServer.kt
M compose/compiler/compiler-hosted/integration-tests/src/desktopTest/kotlin/androidx/compose/compiler/plugins/kotlin/debug/clientserver/TestProxy.kt
M compose/compiler/compiler-hosted/integration-tests/src/desktopTest/proto/stability_test.proto
M compose/compiler/compiler-hosted/integration-tests/src/jvmTest/kotlin/androidx/compose/compiler/plugins/kotlin/AbstractCodegenTest.kt
M compose/compiler/compiler-hosted/integration-tests/src/jvmTest/kotlin/androidx/compose/compiler/plugins/kotlin/AbstractCompilerTest.kt
M compose/compiler/compiler-hosted/integration-tests/src/jvmTest/kotlin/androidx/compose/compiler/plugins/kotlin/AbstractComposeDiagnosticsTest.kt
M compose/compiler/compiler-hosted/integration-tests/src/jvmTest/kotlin/androidx/compose/compiler/plugins/kotlin/AbstractControlFlowTransformTests.kt
M compose/compiler/compiler-hosted/integration-tests/src/jvmTest/kotlin/androidx/compose/compiler/plugins/kotlin/AbstractIrTransformTest.kt
M compose/compiler/compiler-hosted/integration-tests/src/jvmTest/kotlin/androidx/compose/compiler/plugins/kotlin/AbstractLiveLiteralTransformTests.kt
M compose/compiler/compiler-hosted/integration-tests/src/jvmTest/kotlin/androidx/compose/compiler/plugins/kotlin/AbstractMetricsTransformTest.kt
M compose/compiler/compiler-hosted/integration-tests/src/jvmTest/kotlin/androidx/compose/compiler/plugins/kotlin/AbstractMultiPlatformIntegrationTest.kt
```

M compose/compiler/compiler-hosted/integration-tests/src/jvmTest/kotlin/androidx/compose/compiler/plugins/kotlin/ClassStabilityTransformTests.kt
M compose/compiler/compiler-hosted/integration-tests/src/jvmTest/kotlin/androidx/compose/compiler/plugins/kotlin/ComposeCallResolverTests.kt
M compose/compiler/compiler-hosted/integration-tests/src/jvmTest/kotlin/androidx/compose/compiler/plugins/kotlin/ComposeCodegenTestUtils.kt
M compose/compiler/compiler-hosted/integration-tests/src/jvmTest/kotlin/androidx/compose/compiler/plugins/kotlin/ComposeModuleMetricsTests.kt
M compose/compiler/compiler-hosted/integration-tests/src/jvmTest/kotlin/androidx/compose/compiler/plugins/kotlin/ComposeMultiPlatformTests.kt
M compose/compiler/compiler-hosted/integration-tests/src/jvmTest/kotlin/androidx/compose/compiler/plugins/kotlin/ComposerParamTransformTests.kt
M compose/compiler/compiler-hosted/integration-tests/src/jvmTest/kotlin/androidx/compose/compiler/plugins/kotlin/ContextReceiversTransformTests.kt
M compose/compiler/compiler-hosted/integration-tests/src/jvmTest/kotlin/androidx/compose/compiler/plugins/kotlin/ControlFlowTransformTests.kt
M compose/compiler/compiler-hosted/integration-tests/src/jvmTest/kotlin/androidx/compose/compiler/plugins/kotlin/ControlFlowTransformTestsNoSource.kt
M compose/compiler/compiler-hosted/integration-tests/src/jvmTest/kotlin/androidx/compose/compiler/plugins/kotlin/DefaultParamTransformTests.kt
M compose/compiler/compiler-hosted/integration-tests/src/jvmTest/kotlin/androidx/compose/compiler/plugins/kotlin/DurableKeyTests.kt
M compose/compiler/compiler-hosted/integration-tests/src/jvmTest/kotlin/androidx/compose/compiler/plugins/kotlin/FunctionBodySkippingTransformTests.kt
M compose/compiler/compiler-hosted/integration-tests/src/jvmTest/kotlin/androidx/compose/compiler/plugins/kotlin/FunctionalInterfaceTransformTests.kt
M compose/compiler/compiler-hosted/integration-tests/src/jvmTest/kotlin/androidx/compose/compiler/plugins/kotlin/GoldenTransformRule.kt
M compose/compiler/compiler-hosted/integration-tests/src/jvmTest/kotlin/androidx/compose/compiler/plugins/kotlin/LambdaMemoizationRegressionTests.kt
M compose/compiler/compiler-hosted/integration-tests/src/jvmTest/kotlin/androidx/compose/compiler/plugins/kotlin/LambdaMemoizationTransformTests.kt
M compose/compiler/compiler-hosted/integration-tests/src/jvmTest/kotlin/androidx/compose/compiler/plugins/kotlin/LiveLiteralTransformTests.kt
M compose/compiler/compiler-hosted/integration-tests/src/jvmTest/kotlin/androidx/compose/compiler/plugins/kotlin/LiveLiteralV2TransformTests.kt
M compose/compiler/compiler-hosted/integration-tests/src/jvmTest/kotlin/androidx/compose/compiler/plugins/kotlin/RememberIntrinsicTransformTests.kt
M compose/compiler/compiler-hosted/integration-tests/src/jvmTest/kotlin/androidx/compose/compiler/plugins/kotlin/SanityCheckCodegenTests.kt
M compose/compiler/compiler-hosted/integration-tests/src/jvmTest/kotlin/androidx/compose/compiler/plugins/kotlin/ScopeComposabilityTests.kt
M compose/compiler/compiler-hosted/integration-tests/src/jvmTest/kotlin/androidx/compose/compiler/plugins/kotlin/StabilityPropagationTransformTests.kt
M compose/compiler/compiler-hosted/integration-tests/src/jvmTest/kotlin/androidx/compose/compiler/plugins/kotlin/StaticExpressionDetectionTests.kt
M compose/compiler/compiler-hosted/integration-tests/src/jvmTest/kotlin/androidx/compose/compiler/plugins/kotlin/TargetAnnotationsTransformTests.kt
M compose/compiler/compiler-hosted/integration-tests/src/jvmTest/kotlin/androidx/compose/compiler/plugins/kotlin/TestsCompilerError.kt
M compose/compiler/compiler-hosted/integration-tests/src/jvmTest/kotlin/androidx/compose/compiler/plugins/kotlin/TraceInformationTest.kt
M compose/compiler/compiler-hosted/integration-tests/src/jvmTest/kotlin/androidx/compose/compiler/plugins/kotlin/analysis/ComposableCheckerTests.kt
M compose/compiler/compiler-hosted/integration-tests/src/jvmTest/kotlin/androidx/compose/compiler/plugins/kotlin/analysis/ComposableDeclarationCheckerTests.kt
M compose/compiler/compiler-hosted/integration-tests/src/jvmTest/kotlin/androidx/compose/compiler/plugins/kotlin/analysis/ComposableTargetCheckerTests.kt
M compose/compiler/compiler-hosted/integration-tests/src/jvmTest/kotlin/androidx/compose/compiler/plugins/kotlin/analysis/ComposeMultiplatformCheckerTests.kt
M compose/compiler/compiler-hosted/integration-tests/src/jvmTest/kotlin/androidx/compose/compiler/plugins/kotlin/analysis/TryCatchComposableCheckerTests.kt
M compose/compiler/compiler-hosted/integration-tests/src/jvmTest/kotlin/androidx/compose/compiler/plugins/kotlin/facade/K1CompilerFacade.kt
M compose/compiler/compiler-hosted/integration-tests/src/jvmTest/kotlin/androidx/compose/compiler/plugins/kotlin/facade/K2CompilerFacade.kt
M compose/compiler/compiler-hosted/integration-tests/src/jvmTest/kotlin/androidx/compose/compiler/plugins/kotlin/facade/KotlinCompilerFacade.kt
M compose/compiler/compiler-hosted/integration-tests/src/jvmTest/proto/stability_test.proto
M settings.gradle

<https://android-review.googlesource.com/2768008>