# ✓ Mentioned issues (3) ✓ Links (32)

#### Mentioned issues (3)

Compose Layout Inspector breaks due to non-existent Compose UI AAR "https://issuetracker.google.com/284998242"

Incorrect addition of <type>aar</type> to KMP artifact dependencies. "https://issuetracker.google.com/285600312"

"1.6.0-alpha01 of ui-geometry was cut from b/10325923. Both that and the head build are missing the -android entry. Reassigning back to myself for investigation."

#### ⇔ Links (32)

"Cross-linking with the issue in rules\_jvm\_external: https://github.com/bazelbuild/rules\_jvm\_external/issues/909"

"This breaking change doesn't seem to be announced anywhere in Compose release notes 1.5.0-beta01 (I've checked individual artifact release notes too) https://developer.android.com/jetpack/andr

"Great point, created http://issuetracker.google.com/issues/285400399 to add a release note."

"It is somewhat implicit. Created <a href="http://issuetracker.google.com/285401322">http://issuetracker.google.com/285401322</a> to make that explicit"

"Generally, we do try to do that if the cost to maintain that compatibility is low. An example for that is and row it is and rewriting of POM files to add <type>aar</type> as out of the box Gradle generated aa

# See all related links

#### COMMENTS

au...@google.com <au...@google.com><u>#2</u>

Status: Won't Fix (Intended Behavior)

We have started publishing artifacts in a Kotlin multiplatform (KMP) way as you spotted. By default, KMP artifacts are only fully working through Gradle (via gradle module files) and it falls be

We currently only support Gradle consumers of AndroidX artifacts, so we do not intend to add any workarounds on our publishing side to keep non-gradle systems working. KMP is a big shift your build system will have to build proper support of KMP artifact consumption.

az...@lyft.com <az...@lyft.com>#3 Hi, thank you for quick reply! 1. This breaking change doesn't seem to be announced anywhere in Compose release notes 1.5.0-beta01 (I've checked individual artifact release notes too) https://developer.android.co 2. We never saw a statement in the docs that AndroidX artifacts only support Gradle consumers. Since you publish Mayon artifacts it would be great to keep as much compatibility with M maybe POM files should be fixed to point to Android artifacts as they used to be otherwise POMs are completely useless/broken and should not be published? 3. While Gradle-compatible KMP consumers will work with . module files I think it is foundational for AndroidX artifacts to work by default for Android-compatible build tools like Bazel wit point, it is definitely nowhere near widely adopted in the industry as Maven POMs/BOMs). 4. Our build system is Google's Bazel :) al...@gmail.com <al...@gmail.com> #4 To be clear, the build system we are using is Bazel (developed by Google). So I'm more curious why these decisions to only support gradle are being made without coordinating with the Baze with the Bazel team about this and is there an internal understanding of what the next steps would be to support this sudden change? It's one thing to make a decision to only support Gradle be...@ben.cm <be...@ben.cm> #5 Can you elaborate on why pushing broken POM files that point at non-existent artifacts is the intended behavior? For context, we use both okio and wire in our codebase both of which are fetched using rules\_jvm\_external and both of which work perfectly fine without Gradle.

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

Re #3

This breaking change doesn't seem to be announced anywhere in Compose release notes 1.5.0-beta01 (I've checked individual artifact release notes too) https://developer.android.com/jet

Great point, created http://issuetracker.google.com/issues/285400399 to add a release note.

We never saw a statement in the docs that AndroidX artifacts only support Gradle consumers.

It is somewhat implicit. Created http://issuetracker.google.com/285401322 to make that explicit

Since you publish Maven artifacts it would be great to keep as much compatibility with Maven POMs as possible

Generally, we do try to do that if the cost to maintain that compatibility is low. An example for that is eandroidx rewriting of POM files to add <type>aar</type> as eaout of the box Gradle

We already have several features that are not working at all when not using Gradle module files, for example dependency constraints to align compatible versions of libraries. There is no way and roid artifacts within non-android artifacts, but that is fragile and costly to maintain over time. The real solution is for other build systems to start reading gradle module as it is a richer fc

If your publishing falls back to -jvm variant but in Compose you don't publish JVM variant, then maybe POM files should be fixed to point to Android artifacts as they used to be otherwise P

It is possible, but fragile and comes with a maintenance cost that at the moment we are not staffed for

While Gradle-compatible KMP consumers will work with .module files I think it is foundational for AndroidX artifacts to work by default for Android-compatible build tools like Bazel

As noted above, we are not staffed to support other build systems, so the fact it happened to work before, does not imply continuing support. We do generally try to do our best to keep our to

Our build system is Google's Bazel:)

Google's external build system offering for Android developers is Gradle. I sadly have no powers to change that.

Re #4

To be clear, the build system we are using is Bazel (developed by Google). So I'm more curious why these decisions to only support gradle are being made without coordinating with the Baz

As stated above, Google's external offering for Android devs is Gradle. Android Studio is built on top of that, including most of the other Android development tools we offer. Bazel is its own t

Has the Android X team coordinated with the Bazel team about this and is there an internal understanding of what the next steps would be to support this sudden change?

I am not sure what exactly we'd be coordinating about. My team does help the internal google app builds to work with updated artifacts using Blaze. As noted above, KMP artifacts are become

It's one thing to make a decision to only support Gradle but it feels weird for the change to be such a surprise without any external communication regarding Bazel support.

We never supported Bazel, created http://issuetracker.google.com/285401322 to make it clear in our documentation.

Re #5

Can you elaborate on why pushing broken POM files that point at non-existent artifacts is the intended behavior?

It is not non-existent artifacts, they do exist, for androidx. compose. material: material: 1.5.0 POM files points you to https://dl.google.com/android/maven2/androidx/compose/ma fallback to be android instead of this file.

For context, we use both okio and wire in our codebase both of which are fetched using rules\_jvm\_external and both of which work perfectly fine without Gradle.

okio does not have android artifacts, you are getting JVM platform artifacts. If you look at cotheir pom file you'll see that they implicitly point to https://repo1.maven.org/maven2/com/squar

### au...@google.com <au...@google.com><u>#7</u>

One additional clarification from discussion offline, it seems that -android artifact pom files have dependencies that add  $\langle type \rangle aar \langle /type \rangle$  incorrectly as it points to KMP artifacts. example from foundation-layout pom file has the following

```
<dependency>
  \langle \texttt{groupId} \rangle \texttt{androidx.} \ \texttt{compose.} \ \texttt{animation} \\ \langle / \texttt{groupId} \rangle
  <artifactId>animation-core</artifactId>
  <version>1.2.1
   <scope>runtime</scope>
  <exclusions>
     <exclusion>
       \label{lin-stdlib-common} $$ \artifactId> kotlin-stdlib-common </artifactId> 
        <groupId>org.jetbrains.kotlin</groupId>
     </exclusion>
     <exclusion>
       \verb| \langle artifactId \rangle kotlin-test-common \langle / artifactId \rangle|
       <groupId>org, jetbrains, kotlin/groupId>
     <exclusion>
        <artifactId>kotlin-test-annotations-common</artifactId>
       <groupId>org. jetbrains.kotlin</groupId>
  </exclusions>
  <type>aar</type>
</dependency>
```

This is caused by our copom rewrite This is a somewhat tangential issue changing what platform we default to in pom files.

# au...@google.com <au...@google.com><u>#8</u>

I've created https://github.com/bazelbuild/rules\_android/issues/92 to track rules\_android having proper support of consuming Android variant of KMP artifacts.

# ar...@grabtaxi.com <ar...@grabtaxi.com><u>#9</u>

I think it should be done via rules  $jvm_external \frac{https://github.com/bazelbuild/rules_jvm_external/issues/909$ 

# au...@google.com <au...@google.com><u>#10</u>

Status: Assigned (reopened)

We are investigating what a workaround would look like for defaulting to the Android variant would look like.

As for #7, I split that into https://issuetracker.google.com/285600312

### ar...@grabtaxi.com <ar...@grabtaxi.com>#11

EDIT: I saw the status update only after posting this below comment

Hi regardless of official Bazel support or not, the expectation here is to at least have POM files working for Android builds. Since Gradle Module Metadata is exclusively used for multi-platfor is need to make JVM as the default platform for a POM graph containing android artifact (aar) no?

This won't be a breaking change since Gradle would continue using Module Metadata while others can use POM files to resolve android dependencies. That was my understanding from 🙃 🖸

It explains to Gradle that a better module metadata file exists and that it should use it instead. It doesn't mean that consumption from Maven or Ivy would be broken either, only that it work

Guess what I am proposing is already mentioned in the report i.e to have

Since the correct path to aar is and also  $\ensuremath{\mathrm{type}}$  is indicating it to be  $\ensuremath{\mathrm{aar}}$  .

Message last modified on Jun 3, 2023 04:14AM
wessage last mounted on Juli 5, 2025 04.14AW
al@google.com <al@google.com><u>#12</u></al@google.com>
Yeah, it'll be something along the lines of comment#11. We won't have something ready for the next Compose beta, but I'll try to hold rc until we can get this addressed.
yb@google.com <yb@google.com><u>#13</u></yb@google.com>
Btw, we might need something more complex than just defaulting to android since we do have some java/native KMP projects in datastore that do not need any android specific code.
au@google.com <au@google.com> #14</au@google.com>
I think we need to apply this to compose artifacts that shipped as android libraries only
al@google.com <al@google.com><u>#15</u></al@google.com>
Still need to put together a design doc, but tentatively this'll be configurable in the androidx block.
<pre>androidXMultiplatform {   defaultPomPlatform = KotlinPlatformType.jvm }</pre>
All of the naming there is TBD so please don't paint the shed.
Message last modified on Jun 3, 2023 04:47AM
al@google.com <al@google.com></al@google.com>
Accepted by al@google.com.
al@google.com <al@google.com> #16</al@google.com>
aosp/2612118 pending, just need to finish writing the tests.
ap@google.com <ap@google.com>_#17</ap@google.com>
Project: platform/frameworks/support Branch: androidx-main
commit 95899324a20f05b5ba53b7da279bbb2e8ddabdd0
Author: Alan Viverette < <u>alanv@google.com</u> > Date: Thu Jun 08 14:34:21 2023
Defeator are treat fleat finite are treat figure for interes
Refactor src/test/kotlin to src/test/java for interop
Otherwise we can't have Java files in the source set.
Bug: 285353844 Test: buildSrc-tests suite
Change-Id: I7554a338664354b19e9325e95f6a2451a7760c06
M buildSrc-tests/src/test/java/androidx/build/AndroidXImplPluginTest.kt
M buildSrc-tests/java/androidx/build/KmpPlatformsTest.kt
M buildSrc-tests/src/test/java/androidx/build/LibraryVersionsServiceTest.kt M buildSrc-tests/src/test/java/androidx/build/MavenUploadHelperTest.kt
M buildSrc-tests/src/test/java/androidx/build/SdkResourceGeneratorTest.kt
M buildSrc-tests/src/test/java/androidx/build/SettingsParserTest.kt M buildSrc-tests/src/test/java/androidx/build/VersionTest.kt
M buildSrc-tests/src/test/java/androidx/build/buildInfo/CreateLibraryBuildInfoFileTaskTest.kt
M buildSrc-tests/src/test/java/androidx/build/checkapi/CheckApiTest.kt M buildSrc-tests/src/test/java/androidx/build/dependencyTracker/AffectedModuleDetectorImplTest.kt
buildSrc-tests/src/test/java/androidx/build/dependencyTracker/AttachLogsTestRule.kt  M buildSrc-tests/src/test/java/androidx/build/dependencyTracker/AttachLogsTestRule.kt
M buildSrc-tests/src/test/java/androidx/build/dependencyTracker/BuildPropParserTest.kt
M buildSrc-tests/src/test/java/androidx/build/dependencyTracker/ChangeInfoGitClientTest.kt M buildSrc-tests/src/test/java/androidx/build/dependencyTracker/GitRunnerGitClientTest.kt
M buildSrc-tests/src/test/java/androidx/build/dependencyTracker/ProjectGraphTest.kt
M buildSrc-tests/src/test/java/androidx/build/dependencyallowlist/DependencyAllowlistTest.kt  M buildSrc-tests/src/test/java/androidx/build/metalava/ChackAniCompatibilityTeskTest.kt
M buildSrc-tests/src/test/java/androidx/build/metalava/CheckApiCompatibilityTaskTest.kt M buildSrc-tests/src/test/java/androidx/build/metalava/UpdateApiTaskTest.kt
M buildSrc-tests/src/test/java/androidx/build/playground/VerifyPlaygroundGradleConfigurationTaskTest.kt
M buildSrc-tests/src/test/java/androidx/build/testConfiguration/AndroidTestConfigBuilderTest.kt

<u>http</u>	s://android-review.googlesource.com/2619771
ар	@google.com <ap@google.com><u>#18</u></ap@google.com>
-	ect: platform/frameworks/support ch: androidx-main
	mit 5b2d285fe8a604f046ea355aa14d461130d75280 ior: Alan Viverette < <u>alanv@google.com</u> >
	: Fri Jun 02 16:51:58 2023
In	sert default platform dependencies for KMP anchor publications
Sį	pecifies default for projects with multiple platforms.
Ві	ıg: 285353844
	st: MavenUploadHelperTest
CI	nange-ld: l1ea37fa55db8089bfc597b6408fcf13e41ba0c8d
М	annotation/annotation/build.gradle
М	buildSrc-tests/src/test/java/androidx/build/MavenUploadHelperTest.kt
Α	buildSrc-tests/src/test/java/androidx/build/testutils/PomTestData.kt
Α	buildSrc-tests/src/test/java/androidx/build/testutils/XmlProviderImpl.java
М	buildSrc/private/src/main/kotlin/androidx/build/AndroidXImplPlugin.kt
М	buildSrc/private/src/main/kotlin/androidX/build/AndroidXMultiplatformExtension.kt
M	buildSrc/private/src/main/kotlin/androidx/build/MavenUploadHelper.kt
M M	buildSrc/public/src/main/kotlin/androidx/build/KmpPlatforms.kt collection/collection/build.gradle
M	compose/animation/animation-core/build.gradle
M	compose/animation/animation-graphics/build.gradle
M	compose/animation/animation/build.gradle
М	compose/foundation/foundation-layout/build.gradle
М	compose/foundation/foundation/build.gradle
М	compose/material-material-icons-core/build.gradle
М	compose/material/material-icons-extended/build.gradle
М	compose/material/material-ripple/build.gradle
М	compose/material/material/build.gradle
М	compose/material3/material3-adaptive/build.gradle
M	compose/material3/material3-window-size-class/build.gradle
M M	compose/material3/material3/build.gradle compose/runtime/runtime-saveable/build.gradle
M	compose/runtime/runtime/build.gradle
M	compose/ui/ui-geometry/build.gradle
М	compose/ui/ui-graphics/build.gradle
М	compose/ui/ui-test-junit4/build.gradle
М	compose/ui/ui-test/build.gradle
М	compose/ui/ui-text/build.gradle
М	compose/ui/ui-tooling-data/build.gradle
М	compose/ui/ui-tooling-preview/build.gradle
М	compose/ui/ui-tooling/build.gradle
M M	compose/ui/ui-unit/build.gradle compose/ui/ui-util/build.gradle
M	compose/ui/ui/build.gradle
М	datastore/datastore-core-okio/build.gradle
М	datastore/datastore-core/build.gradle
М	datastore/datastore-preferences-core/build.gradle
М	datastore/datastore-preferences/build.gradle
М	datastore/datastore/build.gradle
М	development/project-creator/compose-template/groupId/artifactId/build.gradle
<u>http</u>	s://android-review.googlesource.com/2612118
al	<b>@google.com</b> <al@google.com><u>#19</u></al@google.com>
Mar	ked as fixed.
And	of course, I forgot to put a Relnote so this bug won't get updates when this lands in releases.
Buile	d cut-off isn't until tomorrow for the next batch of releases, so this will get picked up by all of the Compose $1.6.0-a1\mathrm{pha}$ releases.
al	@google.com <al@google.com><u>#20</u></al@google.com>
	us: Assigned (reopened)
	n, do you want to pick these up as cherry-picks for Compose beta? We'd need aosp/2619771 and aosp/2612118, which should be a clean merge (fingers crossed).
ju	@google.com <ju@google.com><u>#21</u></ju@google.com>
we c	an run a build and cherrypick them into the beta

au...@google.com <au...@google.com><u>#22</u>

alanv@ can we test to make sure it resolves when using poms only? (should be able to emulate by deleting all the .module files)
al@google.com <al@google.com><u>#23</u></al@google.com>
(should be able to emulate by deleting all the .module files)
I was planning on creating a standalone project with a local Maven repository and deleting the . module files, which is going to be a pain. Any chance you had an approach that might be more
yb@google.com <yb@google.com><u>#24</u></yb@google.com>
androidx.dev snapshots should already be serving these new versions.  https://androidx.dev/snapshots/builds https://androidx.dev/snapshots/builds/10321535/artifacts/repository/androidx/compose/foundation/foundation-layout/1.6.0-SNAPSHOT/maven-me
al@google.com <al@google.com><u>#25</u></al@google.com>
That one is still showing jar as default though :/
The POM correctly depends on the platform-specific artifact. We still ought to remove the empty JARs, though — I am not sure why those are there in the first place, but I don't think they are h
al@google.com <al@google.com>_#26</al@google.com>
androidx.dev snapshots should already be serving these new versions.
Yes but these include . module files and I'm not going to test using a Bazel build.
al@google.com <al@google.com><u>#27</u></al@google.com>
Verified locally using anchor artifacts for libraries with <code>-jvm</code> and <code>-android</code> default platforms.
al@google.com <al@google.com><u>#28</u></al@google.com>
we can run a build and cherrypick them into the beta
It looks like this didn't happen? Neither of aosp/2619771 or aosp/2612118 appear in the androidx-compose-beta-release branch.
ap@google.com <ap@google.com><u>#29</u></ap@google.com>
Project: platform/frameworks/support Branch: androidx-main
commit 328693f8e983178c30c4efe54d876b5f4a9cb05b Author: Alan Viverette < <u>alanv@google.com</u> > Date: Fri Jun 09 16:05:49 2023
Clean up KmpPlatforms implementation
- Remove unused constants - Change naming to reflect platform groups versus platforms - Cache parsed enabled platforms flag
Retains the unused mapping of platform to group, since that seems like useful information.
I'm not enthusiastic about the naming of the enableXxx() functions, since they are actually isXxxEnabled(), but let's not rock the boat too much.
Bug: 285353844 Test: ./gradlew :collection:collection:publish Change-ld: ld2fe7c77d4d83b04bc0a932a72a1518ce0bf0491
M buildSrc-tests/src/test/java/androidx/build/KmpPlatformsTest.kt M buildSrc/public/src/main/kotlin/androidx/build/KmpPlatforms.kt
https://android-review.googlesource.com/2621291
az@lyft.com <az@lyft.com> #30</az@lyft.com>
Just reporting: we don't see fix in just released $1.6.0$ – $a1pha01$

🖘 androidx.compose.animation:animation:1.6.0-alpha01 still incorrectly depends on 🖘 androidx.compose.foundation:foundation-layout:1.6.0-alpha01 jar rather than aar or -android Should we expect a cherry-pick or new release cut? al...@google.com <al...@google.com>#31 Change landed in ab/10313259, 1.6.0-alpha01 was cut from ab/10325923 -- should be included. POM looks correct, as well: <dependencies> <dependency> <groupId>androidx.compose.animation/groupId>  $\langle artifactId \rangle animation-android \langle /artifactId \rangle$ <version>1.6.0-alpha01 <scope>compile</scope> </dependency> Similarly, the POM for androidx. compose. foundation:foundation-layout:1.6.0-alpha01 specifies a dependency on the -android artifact: <dependencies> <dependency> <groupId>androidx.compose.foundation/groupId>  $\langle artifactId \rangle foundation-layout-android \langle /artifactId \rangle$  $\ensuremath{\scriptsize \langle version \rangle} 1.\ 6.\ 0-a1pha01 \ensuremath{\scriptsize \langle /version \rangle}$ <scope>compile</scope> </dependency> This all looks correct. Can you clarify what issue you're seeing? az...@lyft.com <az...@lyft.com>#32 So is the fix for all KMP androidx deps to depend on their -android versions in their regular pom? Because I'm seeing some number of 1.6.0-alpha01 deps that don't have such a connection in their pom and they're now . jar while they were . aar before: • eandroidx.compose.runtime:runtime does not depend on eandroidx.compose.runtime:runtime-android • candroidx.compose.ui:ui-geometry does not depend on candroidx.compose.ui:ui-geometry-android I haven't checked all of androidx artifacts, but I was able to quickly find these ^ al...@google.com <al...@google.com>\_#33 Reassigned to al...@google.com. 1.6.0-alpha01 of ui-geometry was cut from b/10325923. Both that and the head build are missing the -android entry. Reassigning back to myself for investigation. and they're now .jar while they were .aar before: The <type>aar</type> entry was incorrect. This was fixed by aosp/2613770. al...@google.com <al...@google.com>#34 Accepted by al...@google.com. The affected libraries have no dependencies, but inserting a dependency on the default platform is predicated on finding the <dependencies> element. Quick fix. al...@google.com <al...@google.com>#35 Also, potentially more concerning, the Groovy XML parser that's used by Gradle strips comments -- including the comment that's supposed to tell Gradle to use Gradle Metadata instead of PC ap...@google.com <ap...@google.com> #36 Marked as fixed. Project: platform/frameworks/support Branch: androidx-main commit 7aa4e307db78e68bdc78fa42f0537c6e5c941a1a

Author: Alan Viverette < <u>alanv@google.com</u>>
Date: Tue Jun 27 10:28:37 2023

exceptions

Insert dependencies element containing default platform dependency

Previously insertion would fail silently if there were no other dependencies. This CL also updates the other failure modes to throw

Change-Id: I6e88800f3c8358809856af1c72861217bf067866
M buildSrc-tests/src/test/java/androidx/build/MavenUploadHelperTest.kt M buildSrc-tests/src/test/java/androidx/build/testutils/PomTestData.kt M buildSrc/private/src/main/kotlin/androidx/build/MavenUploadHelper.kt
https://android-review.googlesource.com/2640771
al@gmail.com <al@gmail.com><u>#37</u></al@gmail.com>
Do you have an idea of which versions of Compose will ship with the fixed artifacts?
na@google.com <na@google.com> #38</na@google.com>
Compose beta-03 (released yesterday) has the fixes merged from above
al@gmail.com <al@gmail.com><u>#39</u></al@gmail.com>
Some of the libraries still seem to be missing Dackaging, while others have it.
<ul> <li>Missing packaging: https://maven.google.com/web/index.html?q=foundation-lay#androidx.compose.foundation:foundation-layout:1.5.0-beta03</li> <li>Packaging specified: https://maven.google.com/web/index.html?q=ui-android#androidx.compose.ui:ui-android:1.5.0-beta03</li> </ul>
Would specifying <packaging>jar</packaging> in the pom file for the jars fix Bazel coursier fetch?
Error in fail: Error while fetching artifact with coursier: OpenJDK 64-Bit Server VM warning: Options -Xverify:none and -noverify were deprecated in JDK Error fetching artifacts:
https://maven.google.com/androidx/compose/foundation/foundation-layout/1.5.0-beta03/foundation-layout-1.5.0-beta03.aar: not found: https://maven.google.com/androidx/compose/foundation-layout/1.5.0-beta03/foundation-layout-1.5.0-beta03.aar: not found: https://maven.google.com/androidx/compose/foundation-layout/1.5.0-beta03/foundation-layout-1.5.0-beta03.aar: not found: https://maven.google.com/androidx/compose/foundation-layout-1.5.0-beta03/foundation-layout-1.5.0-beta03.aar: not found: https://maven.google.com/androidx/compose/foundation-layout-1.5.0-beta03/foundation-layout-1.5.0-beta03/foundation-layout-1.5.0-beta03.aar: not found: https://maven.google.com/androidx/compose/foundation-layout-1.5.0-beta03/foundation-layout-1.5.0-beta0
https://maven.google.com/androidx/compose/animation/animation-core/1.5.0-beta03/animation-core-1.5.0-beta03.aar: not found: https://maven.google.com/androidx/compose/ui/ui-util/1.5.0-beta03/ui-util-1.5.0-beta03.aar: not found: https://maven.google.com/androidx/compose/ui/ui-util/1.5.0-beta03/ui-util-1.5.0-beta03.aar: not found: https://maven.google.com/androidx/compose/ui/ui-util-1.5.0-beta03/ui-util-1.5.0-beta03.aar: not found: https://maven.google.com/androidx/compose/ui/ui-util-1.5.0-beta03/ui-util-1.5.0-beta03.aar: not found: https://maven.google.com/androidx/compose/ui/ui-util-1.5.0-beta03/ui-util-1.5.0-beta03.aar: not found: https://maven.google.com/androidx/compose/ui/ui-util-1.5.0-beta03/ui-util-1.5.0-beta03.aar: not found: https://maven.google.com/androidx/compose/ui/ui-util-1.5.0-beta03/ui-util-1.5.0-beta03/ui-util-1.5.0-beta03/ui-util-1.5.0-beta03.aar: not found: https://maven.google.com/androidx/compose/ui/ui-util-1.5.0-beta03/u
https://maven.google.com/androidx/compose/foundation/foundation/1.5.0-beta03/foundation-1.5.0-beta03.aar: not found: https://maven.google.com/androidx/compose/foundation/foundation/foundation-1.5.0-beta03.aar: not found: https://maven.google.com/androidx/compose/foundation-1.5.0-beta03.foundation-1.5.0-beta03.aar: not found: https://maven.google.com/androidx/compose/foundation-1.5.0-beta03.aar: not found: https://maven.goo
https://maven.google.com/androidx/compose/ui/ui/1.5.0-beta03/ui-1.5.0-beta03.aar: not found: https://maven.google.com/androidx/compose/ui/ui/1.5.0-beta03
https://maven.google.com/androidx/compose/runtime/runtime-saveable/1.5.0-beta03/runtime-saveable-1.5.0-beta03.aar: not found: https://maven.google.com/androidx/compose/animation/animation/1.5.0-beta03/animation-1.5.0-beta03.aar: not found: https://maven.google.com/androidx/compose/animation/animation/animation-1.5.0-beta03.aar: not found: https://maven.google.com/androidx/compose/animation-1.5.0-beta03.aar: not found: https://maven.google.com/animation-1.5.0-beta03.aar: not found: https://
https://maven.google.com/androidx/compose/ui/ui-text/1.5.0-beta03/ui-text-1.5.0-beta03.aar: not found: https://maven.google.com/androidx/compose/ui/ui-text/1.5.0-beta03/ui-text-1.5.0-beta03.aar: not found: https://maven.google.com/androidx/compose/ui/ui-text/1.5.0-beta03/ui-text-1.5.0-beta03.aar: not found: https://maven.google.com/androidx/compose/ui/ui-text/1.5.0-beta03/ui-text-1.5.
https://maven.google.com/androidx/compose/runtime/runtime/1.5.0-beta03/runtime-1.5.0-beta03.aar: not found: https://maven.google.com/androidx/compose/runtime/runtime-1.5.0-beta03/runtime-1.5.0-beta03.aar: not found: https://maven.google.com/androidx/compose/runtime-1.5.0-beta03/runtime-1.5.0-beta03.aar: not found: https://maven.google.com/androidx/compose/runtime-1.5.0-beta03/runtime-1.5.0-beta03.aar: not found: https://maven.google.com/androidx/compose/runtime-1.5.0-beta03/runtime-1.5.0-beta03.aar: not found: https://maven.google.com/androidx/compose/runtime-1.5.0-beta03/runtime-1.5.0-beta
<b>al@google.com</b> <al@google.com> #40</al@google.com>
Would specifying <pre>packaging&gt;jar in the pom file for the jars fix Bazel coursier fetch?</pre>
The default packaging when no <packaging> element has been specified is jar. This sounds like an issue with Bazel.</packaging>
https://maven.google.com/androidx/compose/foundation/foundation-layout/1.5.0-beta03/foundation-layout-1.5.0-beta03.aar: not found: https://maven.google.com/androidx/compose/foundation-layout/1.5.0-beta03/foundation-layout-1.5.0-beta03.aar:
There's nothing in the pom that would indicate an aar is present. Again, this seems like a Bazel issue.
There's nothing in the point that hours indicate an and to present. Again, this seems like a parent socie.
te@gmail.com <te@gmail.com><u>#41</u></te@gmail.com>
Hi, after updating compose to 1.5.0-beta03 I have such error:
Execution failed for task ':app:mergeDevDebugNativeLibs'.
> Could not resolve all files for configuration ':app:devDebugRuntimeClasspath'. > Failed to transform runtime-1.5.0-beta03.aar (androidx.compose.runtime:runtime:1.5.0-beta03) to match attributes {artifactType=android-jni, org.grad
> railed to transform runtime-1.5.0-beta03.aar (androidx.compose.runtime:runtime:1.5.0-beta03).  > Could not find runtime-1.5.0-beta03.aar (androidx.compose.runtime:runtime:1.5.0-beta03).
Searched in the following locations:
I don't have androidx.compose.runtime:runtime added as explicit dependency, it's transitive one

 $and \verb|roidx|. annotation: 1.6.0 | POM's | \textbf{dependencies should point to} | and \verb|roidx|. annotation=jvm: 1.6.0 |, \textbf{but it does not. Even though} | annotation \textbf{s build.gradle does specify PlatformIdent} | \textbf{s$ 

This not only affects bazel but also any type of resolution as pom. xm1 is not valid here.

androidx.annotation:1.6.0 POM:

This issue is also affecting androidx.annotation artifact.

Message last modified on Jul 24, 2023 10:09PM

ar...@grabtaxi.com <ar...@grabtaxi.com><u>#42</u>

Fixes: 285353844

Test: MavenUploadHelperTest

```
<?xml version="1.0" encoding="UTF-8"?>
  <!-- This module was also published with a richer model, Gradle metadata, -->
   <!-- which should be used instead. Do not delete the following line which -->
   <!-- is to indicate to Gradle or any Gradle module metadata file consumer -->
   <!-- that they should prefer consuming it instead. -->
   <!-- do_not_remove: published-with-gradle-metadata -->
   \label{locality} $$\mbox{ modelVersion> 4.0.0</modelVersion>}$
   <groupId>androidx.annotation/groupId>
   <artifactId>annotation</artifactId>
   <version>1.6.0
   <name>Android Support Library Annotations
   <description>The Support Library is a static library that you can add to your Android application in order to use APIs that are either not available for
   <inceptionYear>2013</inceptionYear>
   <1icenses>
     <1icense>
      <name>The Apache Software License, Version 2.0</name>
      <url>http://www.apache.org/licenses/LICENSE-2.0.txt</url>
      <distribution>repo</distribution>
     </license>
   </licenses>
   <developers>
     <developer>
      <name>The Android Open Source Project</name>
     </developer>
   <scm>
     <connection>scm:git:https://android.googlesource.com/platform/frameworks/support</connection>
     </scm>
   <dependencies>
     <dependency>
      <groupId>org. jetbrains.kotlin</groupId>
      <artifactId>kotlin-stdlib</artifactId>
      <version>1.8.0
      <scope>runtime</scope>
     </dependency>
   </dependencies>
The root cause seems to be due to configuration caching?
```

https://github.com/gradle/gradle/issues/18369

I'm observing that when a project depends on "org.jetbrains.kotlinx:kotlinx-coroutines-core:1.5.0", the published .pom file is different based on whether the configuration cache was reused

In particular the difference I'm observing is that the published .pom file lists a dependency of "kotlinx-coroutines-core-jvm" if the build did not load from the configuration cache, but lists a c

Not sure if androidx:annotation was published with CC enabled.

It seems a similar issue was handled for coroutines specifically here https://github.com/androidx/androidx/blob/888da7eec8266ecec3c9e229581ba40b076588b7/buildSrc/private/src/mair

Message last modified on Jul 26, 2023 08:35PM

## al...@google.com <al...@google.com><u>#43</u>

androidx. annotation: 1.6.0 was released on Feb 22, this issue was fixed Jun 13. A version of annotation that contains the fix will be going out with today's batch of releases.

# ar...@grabtaxi.com <ar...@grabtaxi.com>\_#44

Thanks! I meant to say since 1.6.0, since I could see it present till 1.7.0-alpha02

## et...@spotify.com <et...@spotify.com>#45

Hey, we're still having trouble upgrading to compose 1.5.0 - RC01 (which was released yesterday). First of all I just want to confirm, as Bazel users with vanilla POMs, should we still be using use the -android ones? Either way, both options still don't work for us, at least not OOTB.

For example, the  $\Theta POM$  for and roidx. compose. foundation: foundation has a mixture of non-android deps and a single-android deps.

non -android dependency:

```
<dependency>
  <groupId>androidx.compose.animation</groupId>
  <artifactId>animation</artifactId>
  <version>1.5.0-rc01</version>
  <scope>runtime</scope>
</dependency>
```

-android dependency:

```
<dependency>
  <groupId>androidx.compose.foundation</groupId>
  <artifactId>foundation-android</artifactId>
  <version>1.5.0-rc01</version>
  <scope>runtime</scope>
</dependency>
```

animation also has an animation-android  $\bigcirc$  AAR artifact, so why is there a difference here?

If we look at the capeom for the -android version of foundation, so androidx. compose. foundation:foundation-android, all dependencies are on -android except one on foundation

```
<dependency>
  <groupId>androidx.compose.foundation</groupId>
  <artifactId>foundation-layout</artifactId>
  <version>[1.5.0-rc01]</version>
  <scope>runtime</scope>
```

Also those square brackets around the version are odd, is that valid POM-wise?

Other artifacts are also inconsistent like this, which I believe is why the resolving is still broken for us using the current version of  $rules\_jvm\_external + coursier$ . I also looked at recent §

Message last modified on Jul 28, 2023 06:43AM

## al...@google.com <al...@google.com><u>#46</u>

 $First \ of \ all\ I \ just \ want \ to \ confirm, \ as \ Bazel \ users \ with \ vanilla \ POMs, \ should \ we \ still \ be \ using \ the \ non \ -android \ coordinates \ and \ then \ internally \ it \ should \ know \ to \ choose \ the \ -android \ ones$ 

Anchor artifact POMs now depend on default platform artifacts, so you should use the non -android coordinates.

so why is there a difference here?

The available-at artifact from the default platform in the Gradle Metadata has been inserted as a POM dependency. None of the other dependencies have been modified, which means if t This continues transitively for all multiplatform artifacts.

which I believe is why the resolving is still broken for us using the current version of

Can you explain in what way resolving is broken?

## et...@spotify.com <et...@spotify.com>#47

Basically it's the same type of failure the original author posted; while resolving the transitive deps it will try to grab an AAR from the non -android artifacts, which fails since those are non-a l can try to come up with a small Bazel + rules\_jvm\_external reproducer project tomorrow if it helps.

#### al...@google.com <al...@google.com><u>#48</u>

Basically it's the same type of failure the original author posted; while resolving the transitive deps it will try to grab an AAR from the non -android artifacts, which fails since those are non-e

There's no <packaging>aar</packaging> element in the POM, so it sounds like Bazel must be hard-coding some assumptions. We cannot do anything about that from Jetpack. You will nee

#### az...@lyft.com <az...@lyft.com>#49

Hi friends from Spotify!

We've experienced exactly the same issue with Bazel + rules\_jvm\_external at Lyft where for some artifacts rules\_jvm\_external will end up trying to download . aar for an Androidx library that You don't need to create a reproducible example, we've traced the issue down to Coursier (used by rules\_jvm\_external) and filed it there with minimal reproducible example with AndroidX libs HOWEVER.

- 1. We were able to solve it by finding a slice of AndroidX libraries versions where all libs are changed to jar/aar releases and have no incorrect referencing of packaging, basically we had to
- 2. After debugging the issue we've concluded that if lib A says it wants an . aar of a particular transitive dep B, but we force version of B to when it became a different file like . jar then i format of lib B so the failure is okay-ish.

#### et...@spotify.com <et...@spotify.com><u>#50</u>

Thanks Lyft friends! The coursier bug is very useful and it does prove that there's an issue with how 'Bazel' resolves the repacked JC artifacts. However I'm still struggling with a reasonable w

We were able to solve it by finding a slice of AndroidX libraries versions where all libs are changed to jar/aar releases and have no incorrect referencing of packaging, basically we had to up

I was wondering if you could share how your setup currently looks to make this work; like which library versions?

After debugging the issue we've concluded that if lib A says it wants an .aar of a particular transitive dep B, but we force version of B to when it became a different file like .jar then it's COR of lib B so the failure is okay-ish.

By forcing here, does that mean that in  ${\tt rules\_jvm\_external}$  you were using the  ${\tt pinned}$  version resolution strategy and listing these specific versions? We do that too, and I'm wondering h

Message last modified on Jul 29, 2023 04:37AM

# va...@gmail.com <va...@gmail.com>#51

I was able to fix similar issue with this code, maybe it can be helpful for you too.