

Android Public Tracker > App Development > Android Studio > Gradle > Android Gradle Plugin 198667124

AGP 7 only packages 32-bit SO files into AAR when using r16

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In Progress Bug P3 + Add Hotlist

STATUS UPDATE No update yet. Edit

DESCRIPTION [Deleted User] created issue #1 Sep 3, 2021 11:56PM


AGP 7 only packages 32-bit SO files into an AAR when r16 of the NDK is used. This is a regression in behaviour from AGP 4.2.2, which packages all SO files which are included in ndk.abiFilters.

This can be reproduced by assembling the attached minimal repro project: ./gradlew assembleRelease -PagpVersion=7.0.2 -PndkVersion=16.1.4479499

After assembling the project, inspect the AAR contents. The 'jni' directory will only include 32-bit ABIs, despite 4 ABIs being in ndk.abiFilters by default.

It's important to note that using either AGP 4.2.2 or NDK r17 or above seems to resolve this issue.

Version of Gradle Plugin: 7.0.2  
Version of Gradle: 7.0.2  
Version of Java: 11  
OS: macOS 11.5.2

 **aarlib.zip**  
63 KB [Download](#)

COMMENTS All comments Oldest first

vs...@google.com <vs...@google.com> Sep 8, 2021 02:14AM

Assigned to an...@google.com.

je...@google.com <je...@google.com> Sep 10, 2021 03:27AM

Reassigned to sp...@google.com.

sp...@google.com <sp...@google.com> #2 Sep 21, 2021 06:15AM

Reassigned to jo...@google.com.

Thanks for the repro project.

I'm able to repro with AGP 7.1.0-alpha12 as well via ./gradlew assembleRelease -PagpVersion=7.1.0-alpha12 -PndkVersion=16.1.4479499.

This seems to be an issue with the external native build tasks. Jomo could you take a look?

Interestingly when I add --scan (e.g., ./gradlew assembleRelease -PagpVersion=7.1.0-alpha12 -PndkVersion=16.1.4479499 --scan), the build scan shows that the :app:configureCMakeRelWithDebInfo[x86\_64], :app:buildCMakeRelWithDebInfo[x86\_64], :app:configureCMakeRelWithDebInfo[arm64-v8a], and :app:buildCMakeRelWithDebInfo[arm64-v8a] tasks are running, but I don't see the corresponding abi folders in any of the build's intermediate output folders.

jo...@google.com <jo...@google.com> Sep 22, 2021 05:20AM

Accepted by jo...@google.com.

Reporter [Deleted User]

Type Bug

Priority P3

Severity S3

Status In Progress (Accepted)

Access Default access View

Assignee jo...@google.com

Verifier --

Collaborators

CC [Deleted User] sp...@google.com

AOSP ID --

Blocking Release --

Release Status --

Found In --

Targeted To --

Verified In --

In Prod

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