

⇔ Links (7)

"Originally filed: https://github.com/android-ndk/ndk/issues/197#issuecomment-246448..."

"Some discussion [here](https://github.com/googlesamples/android-ndk/issues/238#issuecomment-246367381)"

"Specifically, https://github.com/android-ndk/ndk/issues/19/#issuecomment-468988/38" solves my current issue." " back in Android Studio Chipmunk 2021.2.1 with AGP 7.2.0 and Gradle 7.4.2. I've attached an updated version of the hello-jni project that demonstrates the problem; only fix appears to be manual See all related links		
COMMENTS		
	ks@google.com <ks@google.com> Assigned to la@google.com.</ks@google.com>	
	la@google.com <la@google.com><u>#2</u></la@google.com>	
	Hi,	
	thanks for the report. It sounds like the debugger is having problems finding the symbol files from the other projects. To help us understand the issue, it would be best if you could create a sample test project demonstrating the problem. Could you create a zip with a small test project?	
	be@gmail.com <be@gmail.com> <u>#3</u></be@gmail.com>	
	I took the sample code hello-jni and moved it to a library project. Attached hello-jni. As you can see you can't debug into the library. When I set breakpoints they are completely ignored.	
	hello-jni 2.zip 896 KB Download	
	be@gmail.com <be@gmail.com> #4</be@gmail.com>	
	Also you can see it builds only release of the mylibrary project.	
	la@google.com <la@google.com><u>#5</u></la@google.com>	
	Thanks a lot. I'll look into this.	
	la@google.com <la@google.com><u>#6</u></la@google.com>	
	Reassigned to jo@google.com. OK Larges with your accessment. The problem is that we are prolonging the release various of the library into the only. This is more of a build custom then a debugger issue. Proceedings the release various of the library into the only. This is more of a build custom then a debugger issue.	
	OK, I agree with your assessment. The problem is that we are packaging the release version of the library into the apk. This is more of a build system than a debugger issue. Reassigning the Jomo: do you have an idea why is this happening?	
	gf@google.com <gf@google.com>#8</gf@google.com>	
	The following solution works fine: 1) in app's build.gradle, change dependency to compile project(path: ':layerlib', configuration: 'debug') so debug lib build will be used	
	2) on lib's build.gradle, enable debug version lib to be built and copied (published) to apk android.publishNonDefault true	
	added to vulkan validation's layer build: https://github.com/googlesamples/android-vulkan-tutorials/tree/master/tutorial03_traceable_layers	
	be@gmail.com <be@gmail.com>#9</be@gmail.com>	
	With the workaround it's impossible to set CMAKE_BUILD_TYPE variable to Debug/Release. It's always Release yet builds with debug flags. Also you cannot build Release unless you modify	
	be@gmail.com <be@gmail.com> #10</be@gmail.com>	
	I see, CMAKE_BUILD_TYPE is changeable I had an error in my code. The second part still stands about switching debug/release.	
	jo@google.com <jo@google.com><u>#11</u></jo@google.com>	
	I believe we're hitting the limitation that gradle doesn't communicate product flavor from lib to app. We have the same problem in java but it is aggravated by the larger difference between de	
	xa@google.com <xa@google.com><u>#14</u></xa@google.com>	
	Marked as fixed, reassigned to xa@google.com.	
	Gradle Android plugin 3.0 now do proper variant aware dependency resolution.	

" https://github.com/googlesamples/android-vulkan-tutorials/tree/master/tutorial..."

	je@gmail.com <je@gmail.com><u>#15</u></je@gmail.com>
	Really? Android Studio 3.5.0 and Android Gradle Plugin 3.5.0 seem to have an issue with CMake in this regard – but not due to building/incorporating the release .so's. Rather, it seems to be
	Specifically, https://github.com/android-ndk/ndk/issues/197#issuecomment-468988738 solves my current issue.
	It took me hours of frustration to find this helpful comment. I'm going to open a new bug on Android Studio 3.5.0 accordingly.
	Je@envrmnt.com <je@envrmnt.com>#16</je@envrmnt.com>
	This issue appears to be back in Android Studio Chipmunk 2021.2.1 with AGP 7.2.0 and Gradle 7.4.2. I've attached an updated version of the hello-jni project that demonstrates the problem;
	hello-jni_2022.zip 8.3 MB Download
	em@google.com <em@google.com><u>#17</u></em@google.com>
	Status: Assigned (reopened)
	Thanks for reporting this issue. I am able to reproduce the issue easily.
	solodkyy@ Queries for dependent modules returns incorrect results in Chipmunk. Specifically, using the sample project in comment#16, the query for modules that app depends on returns of
	This causes the following (both P0) problems:
	1. "Auto" debugger decides to launch Java-only instead of Java+Native • problem is ∉ <u>⇒here</u>
	Screenshot: https://screenshot.googleplex.com/BBKzGa7pT8WMYXw
	2. Native debugger cannot find the debugging symbols of mylibrary.
	 problem is ←Dhere Screenshot: https://screenshot.googleplex.com/5rvcPaDAW9mRbUr
	// Note: The links above are Google-internal.
	Message last modified on May 24, 2022 03:18AM
	so@google.com <so@google.com></so@google.com>
	Reassigned to sm@google.com.
	sm@google.com <sm@google.com></sm@google.com>
	Marked as fixed.
	em@google.com <em@google.com><u>#18</u></em@google.com>
	This issue (about missing debug symbols for library modules) has been fixed and the fix will be included in Chipmunk Patch 2.
	ve@google.com <ve@google.com><u>#19</u></ve@google.com>
	This issue is still reproducible in Chipmunk Patch 2.
	Scenario-1:
	1. Release Version abi's are displaying in debug apk too.
	Scenario-2:
	1. While trying to debug the sample project with breakpoints in both library and app modules , App is crashed with java.lang.UnsatisfiedLinkError
	stack trace:
	2022-07-27 14:28:20.537 7370-7370/com.example.hellojni E/AndroidRuntime: FATAL EXCEPTION: main Process: com.example.hellojni, PID: 7370
	java.lang.UnsatisfiedLinkError: dlopen failed: library "libhello-jni.so" not found
	at java.lang.Runtime.loadLibrary0(Runtime.java:1077) at java.lang.Runtime.loadLibrary0(Runtime.java:998)
	at java.lang.System.loadLibrary(System.java:1656)
	at com.example.hellojni.HelloJni. <clinit>(HelloJni.java:59) at java.lang.Class.newInstance(Native Method)</clinit>
	at android.app.AppComponentFactory.instantiateActivity(AppComponentFactory.java:95)
	at androidx.core.app.CoreComponentFactory.instantiateActivity(CoreComponentFactory.java:45)
	at android.app.Instrumentation.newActivity(Instrumentation.java:1285) at android.app.ActivityThread.performLaunchActivity(ActivityThread.java:3578)
	at android.app.ActivityThread.handleLaunchActivity(ActivityThread.java:3378) at android.app.ActivityThread.handleLaunchActivity(ActivityThread.java:3842)
	at android.app.servertransaction.LaunchActivityItem.execute(LaunchActivityItem.java:103)
	at android.app.servertransaction.TransactionExecutor.executeCallbacks(TransactionExecutor.java:135) at android.app.servertransaction.TransactionExecutor.execute(TransactionExecutor.java:95)
	at android.app.servertransaction.transaction.execute(transactionExecutor.java.95) at android.app.ActivityThread\$H.handleMessage(ActivityThread.java:2252)
	at android.os.Handler.dispatchMessage(Handler.java:106)
	at android.os.Looper.loopOnce(Looper.java:201) at android.os.Looper.loop(Looper.java:288)

at com.android.internal.os.ZygoteInit.main(ZygoteInit.java:1003)
em@google.com <em@google.com><u>#20</u></em@google.com>
If the issue reproduces in Chipmunk Patch 2, we need more detailed instructions on how to reproduce it. This bug diverged from its original title, so I suggest filing a separate bug, and include the issue reproduces in Chipmunk Patch 2, we need more detailed instructions on how to reproduce it. This bug diverged from its original title, so I suggest filing a separate bug, and include the issue reproduces in Chipmunk Patch 2, we need more detailed instructions on how to reproduce it. This bug diverged from its original title, so I suggest filing a separate bug, and include the issue reproduces in Chipmunk Patch 2, we need more detailed instructions on how to reproduce it.
Based on my efforts to reproduce using Chipmunk Patch 2, debugging (with app=non-native, lib=native) works, and no UnsatisfiedLinkErrors are observed.
tu@gmail.com <tu@gmail.com><u>#21</u></tu@gmail.com>
Originally filed: https://github.com/android-ndk/ndk/issues/197#issuecomment-246448343
dy@gmail.com <dy@gmail.com><u>#22</u></dy@gmail.com>
Comment has been deleted.
Message last modified on Oct 22, 2022 02:52AM
dy@gmail.com <dy@gmail.com> <u>#23</u></dy@gmail.com>
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ka@gmail.com <ka@gmail.com>#25</ka@gmail.com>
Android 13
ka@gmail.com <ka@gmail.com> #26</ka@gmail.com>
Funtouch os13
cl@gmail.com <cl@gmail.com><u>#27</u></cl@gmail.com>
Comment has been deleted.
Message last modified on Oct 22, 2022 02:51AM

at android.app.ActivityThread.main(ActivityThread.java:7842) at java.lang.reflect.Method.invoke(Native Method) at com.android.internal.os.Runtimelnit\$MethodAndArgsCaller.run(Runtimelnit.java:548)