


Android Public Tracker > Framework214270558


App crash of UnsatisfiedLinkError,dlopen failed: "xxx/libmmkv.so has bad ELF magic: 00000000"

+12

Hotlists (7)

Mark as Duplicate






Comments (12)DependenciesDuplicates (1)Blocking (0)Resources (7)

FixedBugP3


+

AOSP assigned

 STATUS UPDATE

No update yet.

Edit

 DESCRIPTION

li...@xiaomi.com created issue #1

Hi we got some user feedback of app crash, from bugreport it seems like PackageManagerService derive native libs failed issue.

01-12 11:05:05.978100015012527I am_crash: [7267,0,com.xiaomi.market:guard,949501637,java.lang.UnsatisfiedLinkError,dlopen failed: "/data/app/~~2x5tvrchxfZq4p6uj3BQNg==/com.xiaomi.market-k_zG13209bIR55ZEZxa6ww==/libmmkv.so has bad ELF magic: 00000000"]

01-12 11:07:39.335100015014565I am_crash: [8392,0,com.xiaomi.market,949501637,java.lang.UnsatisfiedLinkError,dlopen failed: "/data/app/~~2x5tvrchxfZq4p6uj3BQNg==/com.xiaomi.market-k_zG13209bIR55ZEZxa6ww==/libmmkv.so has bad ELF magic: 00000000"]

01-12 11:07:40.669100015014390I am_crash: [8438,0,com.xiaomi.market,949501637,java.lang.UnsatisfiedLinkError,dlopen failed: "/data/app/~~2x5tvrchxfZq4p6uj3BQNg==/com.xiaomi.market-k_zG13209bIR55ZEZxa6ww==/libmmkv.so has bad ELF magic: 00000000"]

01-12 11:07:42.338100015014571I am_crash: [8674,0,com.xiaomi.market,949501637,java.lang.UnsatisfiedLinkError,dlopen failed: "/data/app/~~2x5tvrchxfZq4p6uj3BQNg==/com.xiaomi.market-k_zG13209bIR55ZEZxa6ww==/libmmkv.so has bad ELF magic: 00000000"]

01-12 11:15:42.868100015014564I am_crash: [9723,0,com.xiaomi.market,949501637,java.lang.UnsatisfiedLinkError,dlopen failed: "/data/app/~~2x5tvrchxfZq4p6uj3BQNg==/com.xiaomi.market-k_zG13209bIR55ZEZxa6ww==/libmmkv.so has bad ELF magic: 00000000"]

01-12 11:16:08.575100015014394I am_crash: [10294,0,com.xiaomi.market,949501637,java.lang.UnsatisfiedLinkError,dlopen failed: "/data/app/~~2x5tvrchxfZq4p6uj3BQNg==/com.xiaomi.market-k_zG13209bIR55ZEZxa6ww==/libmmkv.so has bad ELF magic: 00000000"]

01-12 11:16:09.756100015014564I am_crash: [10329,0,com.xiaomi.market,949501637,java.lang.NoClassDefFoundError,<clinit> failed for class com.xiaomi.mar

01-12 11:16:10.901100015012135I am_crash: [10397,0,com.xiaomi.market,949501637,java.lang.NoClassDefFoundError,<clinit> failed for class com.xiaomi.mar

01-12 11:16:11.690100015014564I am_crash: [10433,0,com.xiaomi.market,949501637,java.lang.UnsatisfiedLinkError,dlopen failed: "/data/app/~~2x5tvrchxfZq4p6uj3BQNg==/com.xiaomi.market-k_zG13209bIR55ZEZxa6ww==/libmmkv.so has bad ELF magic: 00000000"]

01-12 11:18:45.551100015014564I am_crash: [11065,0,com.xiaomi.market,949501637,java.lang.UnsatisfiedLinkError,dlopen failed: "/data/app/~~2x5tvrchxfZq4p6uj3BQNg==/com.xiaomi.market-k_zG13209bIR55ZEZxa6ww==/libmmkv.so has bad ELF magic: 00000000"]

Package [com.xiaomi.market] (29139a9):

userId=10130

pkg=Package {91d3b2e com.xiaomi.market}

codePath=/data/app/~~2x5tvrchxfZq4p6uj3BQNg==/com.xiaomi.market-k_zG13209bIR55ZEZxa6ww==

resourcePath=/data/app/~~2x5tvrchxfZq4p6uj3BQNg==/com.xiaomi.market-k_zG13209bIR55ZEZxa6ww==

legacyNativeLibraryDir=/data/app/~~2x5tvrchxfZq4p6uj3BQNg==/com.xiaomi.market-k_zG13209bIR55ZEZxa6ww==/lib

From the on-site phone, we pulled the libmmkv.so from native libs dir. The file size is ok, but its content all filled by 0x00. I'm pretty sure the libmmkv.so stored in apk is ok, but after installing and

And in Xiaomi device, we observed its repdocued in any android versions, from 9.0 to 12.0


Also in other manufacture device, there are a lot of user feedbacks with similar issue.

https://www.giters.com/Tencent/MMKV/issues/789


https://www.oneplusbbs.com/archiver/?tid-5752546.html

https://answers.ea.com/t5/Bug-Reports/Bug-after-update/td-p/10072932

I think this may be a android bug of very low probability recurrence, I don't known how to reproduce and location and fix. Please help to give some suggestions. Thanks.


 deleted

0 B?

 deleted

0 B?

✓ Links (4)

 Links (4)


"https://www.giters.com/Tencent/MMKV/issues/789"

"https://www.oneplusbbs.com/archiver/?tid-5752546.html"

"https://answers.ea.com/t5/Bug-Reports/Bug-after-update/..."


"The CL may fix it. https://android-review.googlesource.com/c/platform/frameworks/base/+22523..."

COMMENTS

 vi...@google.com

<vi...@google.com>

Assigned to an...@google.com.

 an...@google.com

<an...@google.com> #2

Thank you for reporting this issue. For us to further investigate this issue, please provide the following additional information:

Have you observe this issue on Pixel devices as well.



vi...@google.com <vi...@google.com> [#3](#)

Please share the information requested in above comment, to proceed further.



li...@xiaomi.com <li...@xiaomi.com> [#4](#)

No, the issue is an occasional problem, so I can't observe on Pixel device.

And if I can reproduce it all the time, maybe I have already fixed it and upstream.

Please give some suggestions for the next investigation.



vi...@google.com <vi...@google.com> [#5](#)

We've shared this with our product and engineering teams and will continue to provide updates as more information becomes available.



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

Status: Won't Fix (Infeasible)

seems like a hardware issue unless proven otherwise, so i think that's one to raise internally at xiaomi...



li...@xiaomi.com <li...@xiaomi.com> [#7](#)

Did you really make detailed analysis for the issue really? Why you think this is one to raise internally at xiaomi.

The same issue can reproduced at other manufactures, like Huawei, OnePlus, Honor.

Obviously, this is a low probability bug of Android itself when update app in PackageManagerService.

<https://www.githers.com/Tencent/MMKV/issues/789> <https://www.oneplusbbs.com/archiver/?tid-5752546.html> <https://answers.ea.com/t5/Bug-Reports/Bug-after-update/td-p/10072932>



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

Did you really make detailed analysis for the issue really? Why you think this is one to raise internally at xiaomi.

because it looks like bad flash.

Obviously, this is a low probability bug of Android itself when update app in PackageManagerService.

maybe, yes, but we'd need some data to back that up. without any evidence for that, it seems far more likely to be bad flash.



li...@xiaomi.com <li...@xiaomi.com> [#9](#)

Hi, I found some new clues for this issue.

If we enforce restart the device after install some apks with jni lib, then the filesystem hasn't sync to storage. There is a low probability of file corruption issue. And with xiaomi device, we can

The CL may fix it. <https://android-review.googlesource.com/c/platform/frameworks/base/+2252338>



en...@google.com <en...@google.com>

Status: Assigned (reopened)



pa...@google.com <pa...@google.com> [#10](#)

Marked as fixed.

Since that fix has merged and we don't have any other leads, let's mark this resolved for now.



ch...@duolingo.com <ch...@duolingo.com> [#11](#)

Hello, Replying here b/c we're also running into a similar crash but with the rLottie library. Here's the stack trace:

```
Caused by java.lang.UnsatisfiedLinkError: dlopen failed: "/data/app/~~N1ZZ36lwUnUEd0TUuFTbIg==/com.duolingo-z4S9Q6bU1BpHPTgOwTKqQg==/lib/arm64/librLottie.  
    at java.lang.Runtime.load0(Runtime.java:929)  
    at java.lang.System.load(System.java:1625)  
    at com.getkeepsafe.relinker.SystemLibraryLoader.loadPath(SystemLibraryLoader.java:31)  
    at com.getkeepsafe.relinker.ReLinkerInstance.loadLibraryInternal(ReLinkerInstance.java:204)  
    at com.getkeepsafe.relinker.ReLinkerInstance.loadLibrary(ReLinkerInstance.java:136)  
    at com.getkeepsafe.relinker.ReLinker.loadLibrary(ReLinker.java:70)  
    at com.getkeepsafe.relinker.ReLinker.loadLibrary(ReLinker.java:51)  
    at com.aghajari.rLottie.AXrLottie.init(AXrLottie.java:75)
```

We've not been able to repro this on our end, but according to crashlytics, this has also happened on pixel devices (e.g., Pixel 3 XL or Pixel 4) for Android versions 11-13. We're also seeing it c
My main source of confusion is why we're performing a dlopen on /lib/arm64/liblottie.so since I would have expected it to use /lib/arm64-v8a/liblottie.so instead. This seems to be potentia



en...@google.com <en...@google.com> [#12](#)

do you actually still need relinker? (do you support api levels < 23?)