🐛 Android Public Tracker > App Development > Android Studio > Profilers   133166400 ▾

← C ☆ App crashes while profiler is active   +1 ¹¹ Hotlists (7) Mark as Duplicate 🔔 ⋮

Comments (14)   Dependencies   Duplicates (0)   Blocking (0)   Resources (4)

Fixed | Bug | P1 | + | [AOSP] Performance   Reviewed (L1)

👥 **STATUS UPDATE** No update yet. Edit

📄 DESCRIPTION mi...@gtempaccount.com created issue #1   May 21, 2019 10:08PM ⋮

The App is running without any issue if there is no Profiler attached. As soon as I select the Profiler in the AS and I do something in the app, the app crashes.

AGP 3.4.1
AS 3.4.1
Device: CAT S61, Android 8.1

I saw these errors in the Logcat:

2019-05-21 14:05:29.641 system_process E/memtrack: Couldn't load memtrack module
2019-05-21 14:05:29.641 system_process W/android.os.Debug: failed to get memory consumption info: -1

    --------- beginning of crash
2019-05-21 13:37:55.667 ? A/libc: Fatal signal 6 (SIGABRT), code -6 (SI_TKILL) in tid 7396 (RenderThread), pid 7368 (xxx.yyy)
2019-05-21 13:37:55.697 system_process E/libprocessgroup: getpgid(7570) failed: Permission denied
2019-05-21 13:37:55.704 ? E/DEBUG: failed to open directory /proc/7396/fd: No such file or directory
2019-05-21 13:37:55.704 ? E/crash_dump32: failed to open /proc/7396: No such file or directory
2019-05-21 13:37:55.704 ? A/crash_dump32: crash_dump.cpp:398] failed to get process threads: No such file or directory
2019-05-21 13:38:27.555 system_process E/memtrack: Couldn't load memtrack module

✓ Links (4)   Hide all

🔗 Links (4)

"…e on the item 2 in comment #4: This is the screenshot (#3 in https://developer.android.com/studio/profile/memory-profiler#overview) to 'set the "Allocation Tracking" to N… "   sh...@ #5
"It always happens when I write some data to the database. We use Couchbase Lite 2.5 (https://github.com/couchbase/couchbase-lite-android)."   mi...@ #6
"As it does only occur since the 2.x version, I also reported it there: https://github.com/couchbase/couchbase-lite-android/issues/1918"   mi...@ #6
"My Fork: https://github.com/RocketRider/mobile-travel-sample"   mi...@ #7

COMMENTS   All comments ▾   ↓ Oldest first

⚪ **mi...@gtempaccount.com** <mi...@gtempaccount.com> #2   May 21, 2019 10:20PM ⋮

2019-05-21 14:13:44.586 com.xxx.yyy V/StudioProfiler: JNIEnv not attached
2019-05-21 14:13:44.588 com.xxx.yyy V/StudioProfiler: Memory control stream started.
2019-05-21 14:13:44.589 com.xxx.yyy V/StudioProfiler: Perfa connected to Perfd.
2019-05-21 14:13:44.595 com.xxx.yyy V/StudioProfiler: Acquiring Application for Events
2019-05-21 14:13:45.573 com.xxx.yyy V/StudioProfiler: Live memory tracking disabled.
2019-05-21 14:13:45.619 com.xxx.yyy V/StudioProfiler: Live memory tracking enabled.
2019-05-21 14:13:45.619 com.xxx.yyy V/StudioProfiler: JNIEnv not attached
2019-05-21 14:13:45.826 com.xxx.yyy V/StudioProfiler: Loaded classes: 9749
2019-05-21 14:13:45.956 com.xxx.yyy V/StudioProfiler: New JNI table set
2019-05-21 14:13:46.744 com.xxx.yyy V/StudioProfiler: Tracking initialization took: 1124485313ns

    --------- beginning of crash
2019-05-21 14:13:53.508 com.xxx.yyy A/libc: Fatal signal 11 (SIGSEGV), code 1, fault addr 0x1f in tid 9209 (pool-8-thread-1), pid 9160 (xxx.yyy)
2019-05-21 14:13:53.564 ? W/crash_dump32: type=1400 audit(0.0:76): avc: denied { search } for name="com.xxx.yyy" dev="dm-2" ino=527669 scontext=u:r:crash_dump:s0:c512,c768 tcontext=u:object_r:app_data_file:s0:c512,c768 tclass=dir permissive=0
2019-05-21 14:13:53.592 ? I/crash_dump32: obtaining output fd from tombstoned, type: kDebuggerdTombstone
2019-05-21 14:13:53.593 ? I//system/bin/tombstoned: received crash request for pid 9160
2019-05-21 14:13:53.594 ? I/crash_dump32: performing dump of process 9160 (target tid = 9209)
2019-05-21 14:13:53.595 ? A/DEBUG: *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** ***
2019-05-21 14:13:53.595 ? A/DEBUG: Build fingerprint: 'Cat/CatS61/CatS61:8.1.0/OPM1.171019.011/LTE_D0201121.0_S61_0.039.00:user/release-keys'
2019-05-21 14:13:53.595 ? A/DEBUG: Revision: '0'
2019-05-21 14:13:53.595 ? A/DEBUG: ABI: 'arm'
2019-05-21 14:13:53.595 ? A/DEBUG: pid: 9160, tid: 9209, name: pool-8-thread-1 >>> com.xxx.yyy <<<
2019-05-21 14:13:53.595 ? A/DEBUG: signal 11 (SIGSEGV), code 1 (SEGV_MAPERR), fault addr 0x1f
2019-05-21 14:13:53.595 ? A/DEBUG: Cause: null pointer dereference
2019-05-21 14:13:53.595 ? A/DEBUG: r0 c7cba500 r1 ffffffff r2 00000000 r3 cb184df4
2019-05-21 14:13:53.595 ? A/DEBUG: r4 c7cba4a8 r5 c7cba500 r6 00000000 r7 c7cba450
2019-05-21 14:13:53.595 ? A/DEBUG: r8 00000000 r9 cb19a9cf sl 00000001 fp 00000000
2019-05-21 14:13:53.595 ? A/DEBUG: ip cb3a417c sp c7cba450 lr cb31ad17 pc cb31b230 cpsr 80070030
2019-05-21 14:13:53.594 ? W/crash_dump32: type=1400 audit(0.0:77): avc: denied { search } for name="com.xxx.yyy" dev="dm-2" ino=527669 scontext=u:r:crash_dump:s0:c512,c768 tcontext=u:object_r:app_data_file:s0:c512,c768 tclass=dir permissive=0
2019-05-21 14:13:53.597 ? A/DEBUG: backtrace:
2019-05-21 14:13:53.597 ? A/DEBUG: #00 pc 00270230 /data/app/com.xxx.yyy-R_DyW_-TQaE8szARnAFdSw==/lib/arm/libLiteCoreJNI.so

```
2019-05-21 14:13:53.597 ? A/DEBUG:    #01 pc 0026fd13  /data/app/com.xxx.yyy-R_DyW_-TQaE8szARnAFdSw==/lib/arm/libLiteCoreJNI.so
2019-05-21 14:13:53.597 ? A/DEBUG:    #02 pc 002660bb  /data/app/com.xxx.yyy-R_DyW_-TQaE8szARnAFdSw==/lib/arm/libLiteCoreJNI.so (__gxx_personality_v0+330)
2019-05-21 14:13:53.597 ? A/DEBUG:    #03 pc 0018bee4  /data/data/com.xxx.yyy/libperfa_arm.so
2019-05-21 14:13:53.597 ? A/DEBUG:    #04 pc 0018c808  /data/data/com.xxx.yyy/libperfa_arm.so
```

rm...@google.com <rm...@google.com> #3   May 22, 2019 08:35PM ⋮

Assigned to sh...@google.com.

Thank you for your feedback. Team may reach out for more feedback in reproducing or triaging this issue.

sh...@google.com <sh...@google.com> #4   May 23, 2019 07:26AM ⋮

Thanks for reporting the issue. I noticed you wrote "As soon as I select the Profiler in the AS and I do something in the app, the app crashes". If this bug reproduces again, I wonder if you can try:

1. If you don't do "something" in the app, will it crash?
2. If you get a chance to set the "Allocation Tracking" to None, and then do "something", will the app crash?
3. Can you also include more stack frames below #04 in comment #2.

Is there any chance that you can share a simplified version of the app that can reproduce the issue?

sh...@google.com <sh...@google.com> #5   May 23, 2019 07:28AM ⋮

Update on the item 2 in comment #4: This is the screenshot (#3 in https://developer.android.com/studio/profile/memory-profiler#overview) to 'set the "Allocation Tracking" to None'.

mi...@gtempaccount.com <mi...@gtempaccount.com> #6   May 23, 2019 04:19PM ⋮

It always happens when I write some data to the database. We use Couchbase Lite 2.5 (https://github.com/couchbase/couchbase-lite-android).
As it does only occur since the 2.x version, I also reported it there: https://github.com/couchbase/couchbase-lite-android/issues/1918
So I don't have to interact with the app, it just needs to write some data.

I tried setting the memory tracking to none, it seems still to track the memory operations and it still crashes.
It is always the exact same stack trace.

I can't provide you with the app, but I will try to reproduce it with a sample from couchbase.

mi...@gtempaccount.com <mi...@gtempaccount.com> #7   May 23, 2019 05:03PM ⋮

I can reproduce it with the sample from couchbase.
I had to change two things:
1. Change the ARM version to v7, with ARMv8 it did not crash.
2. add a write operation to the sample.
My Fork: https://github.com/RocketRider/mobile-travel-sample

Now I can reproduce the issue with the following steps:
1. Start the App
2. Add Profiler
3. Click on "Proceed as guest"

Tested with following devices:
CAT S61 - Android 8.1: Crash
Samsung S9 - Android 9.0: Crash
Samsung Tab - Android 5.0: No Crash

mi...@gtempaccount.com <mi...@gtempaccount.com> #8   May 24, 2019 03:04PM ⋮

This is a log from starting the app until the crash.

📄 **profiler-crash.txt**
   139 KB View Download

sh...@google.com <sh...@google.com> #9   May 25, 2019 08:26AM ⋮

Thank you so much for the reproduce. I confirm that I can reproduce the bug using the project from #7. Studio 3.4.1 or 3.5 Beta 1 using a pixel 2 running Android 9.0 but not emulator. It seems like a ARM specific bug.

There is a line of "Malformed section header found, ignoring..." in the verbose level of logcat. Therefore, I'm not sure how accurate the call stack is. It may take some time for us to figure it out, but we will take a look. Thanks again for the report.

```
2019-05-24 15:20:05.467 29793-29793/? A/DEBUG: *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** ***
2019-05-24 15:20:05.467 29793-29793/? A/DEBUG: Build fingerprint: 'google/walleye/walleye:9/PQ3A.190605.003/5524043:user/release-keys'
2019-05-24 15:20:05.467 29793-29793/? A/DEBUG: Revision: 'MP1'
2019-05-24 15:20:05.467 29793-29793/? A/DEBUG: ABI: 'arm'
2019-05-24 15:20:05.467 29793-29793/? A/DEBUG: pid: 29145, tid: 29145, name: se.travelsample  >>> com.couchbase.travelsample <<<
2019-05-24 15:20:05.467 29793-29793/? A/DEBUG: signal 11 (SIGSEGV), code 1 (SEGV_MAPERR), fault addr 0x1f
2019-05-24 15:20:05.467 29793-29793/? A/DEBUG: Cause: null pointer dereference
2019-05-24 15:20:05.467 29793-29793/? A/DEBUG:    r0  ffde2420  r1  ffffffff  r2  00000000  r3  cc604250
```

2019-05-24 15:20:05.467 29793-29793/? A/DEBUG: r4 ffde23c8 r5 ffde2420 r6 00000000 r7 ffde2370
2019-05-24 15:20:05.467 29793-29793/? A/DEBUG: r8 e74e9b95 r9 ce8d3658 r10 dfcb34c0 r11 ffde26a0
2019-05-24 15:20:05.467 29793-29793/? A/DEBUG: ip cc828100 sp ffde2370 lr cc79d46f pc cc79d988
2019-05-24 15:20:05.469 29793-29793/? I/unwind: Malformed section header found, ignoring...
2019-05-24 15:20:05.469 29793-29793/? A/DEBUG: backtrace:
2019-05-24 15:20:05.469 29793-29793/? A/DEBUG: #00 pc 00274988 /data/app/com.couchbase.travelsample-G2V9BhAOQSVQ2QRyl73uEg==/lib/arm/libLiteCoreJNI.so
2019-05-24 15:20:05.469 29793-29793/? A/DEBUG: #01 pc 0027446b /data/app/com.couchbase.travelsample-G2V9BhAOQSVQ2QRyl73uEg==/lib/arm/libLiteCoreJNI.so
2019-05-24 15:20:05.469 29793-29793/? A/DEBUG: #02 pc 0026a813 /data/app/com.couchbase.travelsample-G2V9BhAOQSVQ2QRyl73uEg==/lib/arm/libLiteCoreJNI.so
(__gxx_personality_v0+330)
2019-05-24 15:20:05.469 29793-29793/? A/DEBUG: #03 pc 005eee68 /data/data/com.couchbase.travelsample/code_cache/libjvmtiagent_arm.so
2019-05-24 15:20:05.469 29793-29793/? A/DEBUG: #04 pc 005ef78c /data/data/com.couchbase.travelsample/code_cache/libjvmtiagent_arm.so

---

sh...@google.com <sh...@google.com> #10   May 30, 2019 06:47AM ⋮

For record, I used ndk-stack to get a bit more info about the callstack.
********** Crash dump: **********
Build fingerprint: 'google/walleye/walleye:9/PQ3A.190605.003/5524043:user/release-keys'
#00 0x00274988 /data/app/com.couchbase.travelsample-PsOSLJ_3rfDZK8mfNyzhkA==/lib/arm/libLiteCoreJNI.so
#01 0x0027446b /data/app/com.couchbase.travelsample-PsOSLJ_3rfDZK8mfNyzhkA==/lib/arm/libLiteCoreJNI.so
#02 0x0026a813 /data/app/com.couchbase.travelsample-PsOSLJ_3rfDZK8mfNyzhkA==/lib/arm/libLiteCoreJNI.so (__gxx_personality_v0+330)
#03 0x005eee38 /data/data/com.couchbase.travelsample/code_cache/libjvmtiagent_arm.so
__gnu_Unwind_Backtrace
/usr/local/google/buildbot/src/android/gcc/toolchain/build/../gcc/gcc-4.9/libgcc/unwind-arm-common.inc:589:0
#04 0x005ef75c /data/data/com.couchbase.travelsample/code_cache/libjvmtiagent_arm.so
_Unwind_Backtrace
/usr/local/google/buildbot/src/android/gcc/toolchain/build/../gcc/gcc-4.9/libgcc/config/arm/libunwind.S:360:0
Crash dump is completed

---

la...@flatcircle.io <la...@flatcircle.io> #11   Jun 27, 2019 10:31PM ⋮

Also getting the same crash attached is my error stacktrace. Crash happens as soon as app launches past splash screen makes a succesful network call to get data, and crashes
straight after that.

Crashes happens on Samsung S9 running Android 9.

📎 **profiler crash stacktrace.txt**
   47 KB View Download

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mi...@gmail.com <mi...@gmail.com> #12   Sep 17, 2019 03:35AM ⋮

I report my situation:
SO: Android 9 real device and some emulator
Build settings:
compileSdkVersion 28
implementation 'com.android.support:support-v4:28.0.0'
implementation 'com.android.support:appcompat-v7:28.0.0'

I also find the app that comes out immediately after my timed SPLASH SCREEN, during which I show a privacy acceptance dialog on which the user should press "Accept" or "Reject" ...
the very strange thing is that there I debugged for days, before it worked with the same identical modalities .... even going back to the previous code (total revert of the project) the
problem remains such, therefore it is not tied to the source of the application but to an internal control or bug or Android Studio or SDK, this control was not done before ... my app has
always run on devices 4-5-6-7-8-9 until yesterday without the slightest problem .... of point in white this afternoon 16 July 2019 debugging was impossible and I am totally blocked.

If it helps (I don't remember seeing it before) I notice this message in the logcat in verbose mode: "How to avoid Fatal signal 6 (SIGABRT) ... bla bla bla"

Thanks.

---

ge...@gmail.com <ge...@gmail.com> #13   Dec 30, 2019 06:29PM ⋮

Is there any progress about this bug?

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sh...@google.com <sh...@google.com> #14   Mar 10, 2022 12:14PM ⋮

Marked as fixed.

Sorry it took so long to get back to this issue.

I can no longer reproduce the crash using the sample project in comment #7. After clicking on "Proceed as guest", the app and the profiler continue running as expected. My setup is

- Android Studio Bumblebee | 2021.1.1 Patch 2 on macOS 11.6.4 (Intel).
- Device: Pixel 5 running `[ro.build.fingerprint]: [google/redfin/redfin:12/SQ1A.220205.002/8010174:user/release-keys]`
- Upgrade the app project
    - Upgrade Gradle wrapper to 4.8 version
    - Upgrade 'com.android.tools.build:gradle:3.1.0' to 3.2.0
    - The complete diffs of project files (compared to the github repo in comment#7) can be seen in the attached diff.txt

So this particular issue seems fixed now. Thank you for your patience.

There are potentially multiple bugs that cause app to crash while profiler is active. So for **everyone** who is following this issue, if you still see app crashes with profilers, please feel free
to open a new a new issue. Please include the following info:

- logcat, idea.log
- Studio version
- Device model, API level

- Sample app. This would be extremely helpful. If there's confidentiality concern, Google issue tracker provides the option to "Restrict this comment/attachment".

diff.txt
6 KB View Download

- Sample app. This would be extremely helpful. If there's confidentiality concern, Google issue tracker provides the option to "Restrict this comment/attachment".

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