



 Android Public Tracker > ART 236653633


   Version of System Update for MIUI.

+11

Hotlists (4)

Mark as Duplicate





Comments (4)

Dependencies

Duplicates (0)

Blocking (0)

Resources (2)


Infeasible

Bug

P3


+ Add Hotlist

NeedsInfo

 STATUS UPDATE

No update yet.

Edit

 DESCRIPTION qi...@xiaomi.corp-partner.google.com created issue [#1](#)

1.Problem Description

ANR for app com.tencent.qqlivei18n.

2. Prerequisites

1. Open Google Play and search keyword wetv.
2. Download and install the first app in search result.

3. Steps to reproduce

1. Start the app.
2. Drag up and down in the main Activity for several seconds. No more than 1 min.
3. App ANR is notified.
4. The problem will only occur when the app is opened for the first time and the second time, which can be achieved by clearing the data.

4. Expected Result

App runs normally.

5. Actual result

App not respond after

6. Recurrence probability

100%

7. Initial analyze

Stack trace of main thread:

```
----- pid 10491 at 2022-06-20 19:05:23.971123404+0800 -----
Cmd line: com.tencent.qqlivei18n
ABI: 'arm64'

"cent.qqlivei18n" sysTid=10491
#00 pc 000000000086f90 /apex/com.android.runtime/lib64/bionic/libc.so (syscall+32) (BuildId: 94065bf91428f6ae9fb310c478171302)
#01 pc 000000000028dc74 /apex/com.android.art/lib64/libart.so (art::ConditionVariable::WaitHoldingLocks(art::Thread*)+152) (BuildId: 0b1233dc4b2f0a31e3b
#02 pc 0000000000466d4c /apex/com.android.art/lib64/libart.so (art::JNI<false>::FindClass(_JNIEnv*, char const*)+516) (BuildId: 0b1233dc4b2f0a31e3b16ee8
#03 pc 00000000001a7f2c /system/lib64/libandroid_runtime.so ((anonymous namespace)::Receiver::handleEvent(int, int, void*)+128) (BuildId: 555f129e00323a
#04 pc 0000000000018184 /system/lib64/libutils.so (android::Looper::pollInner(int)+916) (BuildId: 16796d84bdcf185b2112267dbd820c19)
#05 pc 0000000000017d84 /system/lib64/libutils.so (android::Looper::pollOnce(int, int*, int*, void**)+116) (BuildId: 16796d84bdcf185b2112267dbd820c19)
#06 pc 0000000000154674 /system/lib64/libandroid_runtime.so (android::android_os_MessageQueue_nativePollOnce(_JNIEnv*, _jobject*, long, int)+48) (BuildI
#07 pc 00000000020103dc /memfd:jit-cache (deleted) (offset 0x2000000) (art_jni_trampoline+108)
```

Frame #02 addr2line:

```
0000000000466d4c
art::JNI<false>::FindClass(_JNIEnv*, char const*)
art/runtime/base/mutex.cc:1068
art::Thread::TransitionFromSuspendedToRunnable()
art/runtime/thread-inl.h:293
ScopedThreadStateChange
art/runtime/scoped_thread_state_change-inl.h:47
ScopedObjectAccessUnchecked
art/runtime/scoped_thread_state_change-inl.h:105
ScopedObjectAccess
art/runtime/scoped_thread_state_change-inl.h:116
art::JNI<false>::FindClass(_JNIEnv*, char const*)
art/runtime/jni/jni_internal.cc:597
```

Please note that this version of libart is from MIUI. I've replaced with it for debugging. Implementation of TransitionFromSuspendedToRunnable:

```

//art/runtime/thread-inl.h
243 inline ThreadState Thread::TransitionFromSuspendedToRunnable() {
244     union StateAndFlags old_state_and_flags;
245     old_state_and_flags.as_int = tls32_.state_and_flags.as_int;
246     int16_t old_state = old_state_and_flags.as_struct.state;
247     DCHECK_NE(static_cast<ThreadState>(old_state), kRunnable);
248     do {
249         Locks::mutator_lock_>AssertNotHeld(this); // Otherwise we starve GC..
250         old_state_and_flags.as_int = tls32_.state_and_flags.as_int;
251         DCHECK_EQ(old_state_and_flags.as_struct.state, old_state);
252         if (LIKELY(old_state_and_flags.as_struct.flags == 0)) {
253             ...
254         } else if ((old_state_and_flags.as_struct.flags & kSuspendRequest) != 0) {
255             ...
256             Thread* thread_to_pass = nullptr;
257             if (kIsDebugBuild && !IsDaemon()) {
258                 // We know we can make our debug locking checks on non-daemon threads,
259                 // so re-enable them on debug builds.
260                 thread_to_pass = this;
261             }
262             MutexLock mu(thread_to_pass, *Locks::thread_suspend_count_lock_);
263             ScopedTransitioningToRunnable scoped_transitioning_to_runnable(this);
264             old_state_and_flags.as_int = tls32_.state_and_flags.as_int;
265             DCHECK_EQ(old_state_and_flags.as_struct.state, old_state);
266             while ((old_state_and_flags.as_struct.flags & kSuspendRequest) != 0) {
267                 // Re-check when Thread::resume_cond_ is notified.
268                 Thread::resume_cond_>Wait(thread_to_pass);
269                 old_state_and_flags.as_int = tls32_.state_and_flags.as_int;
270                 DCHECK_EQ(old_state_and_flags.as_struct.state, old_state);
271             }
272             DCHECK_EQ(GetSuspendCount(), 0);
273         }
274     } while (true);

```

We can know it's waiting condition variable Thread::resume_cond_. It seems that no one would notify it to continue, so it hangs.

After checking the state of all threads, I found that most of them are in state futex_wait_queue_me, including main thread. And I found a thread in a rare state:

```

"Thread-101" sysTid=11596
#00 pc 000000000086f94 /apex/com.android.runtime/lib64/bionic/libc.so (syscall+36) (BuildId: 94065bf91428f6ae9fb310c478171302)
#01 pc 000000000028bdd0 /apex/com.android.art/lib64/libart.so (art::Mutex::ExclusiveUnlock(art::Thread*)+292) (BuildId: 0b1233dc4b2f0a31e3b16ee8701a0265)
#02 pc 00000000006a2db4 /apex/com.android.art/lib64/libart.so (art::ThreadList::SuspendThreadByThreadId(unsigned int, art::SuspendReason, bool*)+1228) (
#03 pc 000000000059bdb8 /apex/com.android.art/lib64/libart.so (art::DdmVmInternal_getStackTraceById(_JNIEnv*, _jclass*, int)+548) (BuildId: 0b1233dc4b2f
#04 pc 000000000001057c /apex/com.android.art/javalib/arm64/boot-core-libart.oat (art_jni_trampoline+108) (BuildId: e0613e00e37546ce5aeb39b7362d35446030)
#05 pc 00000000001beb98 /apex/com.android.art/javalib/arm64/boot.oat (java.lang.Thread.getStackTrace+40) (BuildId: b56892b25f4b9c0189054b2248db0a5d170be
#06 pc 0000000000212520 /apex/com.android.art/lib64/libart.so (nterp_helper+4016) (BuildId: 0b1233dc4b2f0a31e3b16ee8701a0265)
#07 pc 00000000000ed13a /apex/com.android.art/javalib/core-oj.jar
#08 pc 0000000002081634 /memfd:jit-cache (deleted) (offset 0x2000000) (com.appsflyer.internal.b.$a+116)

```

```

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art/runtime/scoped_thread_state_change-inl.h:47
ScopedObjectAccessUnchecked
art/runtime/scoped_thread_state_change-inl.h:105
ScopedObjectAccess
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art/runtime/jni/jni_internal.cc:597

```

```

1012 Thread* ThreadList::SuspendThreadByThreadId(uint32_t thread_id,
1013                                             SuspendReason reason,
1014                                             bool* timed_out) {
1015     ...
1016     while (true) {
1017         {
1018             ...
1019             {
1020                 MutexLock suspend_count_mu(self, *Locks::thread_suspend_count_lock_);
1021                 ...
1022             }
1023         }
1024     }

```

The thread is blocked when unlocking. It's so strange. I start to think it's a problem of ART.
So I checked the version of art on Pixel, in which problem doesn't occur:

Active APEX packages:

```
com.google.android.art
Version: 311810000
Path: /data/apex/active/com.android.art@311810000.apex
IsActive: true
IsFactory: false
```

and on MIUI, in which problem occurs:

Active APEX packages:

```
com.google.android.art
Version: 311713000
Path: /data/apex/active/com.android.art@311713000.apex
IsActive: true
IsFactory: false
```

Settings app shows the date of version 311713000 is May the 1st, and 311810000 is June the 1st.
So could you tell me when can we update art to version 311810000? Is there any way to get it for test? Or my analyze is wrong? Thanks very much!

COMMENTS



su...@google.com <su...@google.com> [#2](#)

Assigned to su...@google.com.

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

We are not able to find an application using the package name " com.tencent.qqlive18n " and also we tried to get for another application as you metioned in <https://buganizer.corp.google.co> couldn't find it .

Please confirm that in which application ANR happened and also share the package name , playstore link .

Android full bug report capturing

After reproducing the issue, press the volume up, volume down, and power button simultaneously. This will capture a bug report on your device in the "bug reports" directory.

Alternate method

Navigate to "Developer options", ensure "USB debugging" is enabled, then enable "Bug report shortcut". Capture bug report by holding the power button and selecting the "Take bug report" or

Screen record of the issue, for clarity

Please capture screen record or video of the issue using following steps:

```
adb shell screenrecord /sdcard/video.mp4
```

Subsequently use following command to pull the recorded file:

```
adb pull /sdcard/video.mp4
```

Note: Please upload the files to google drive and share the folder to android-bugreport@google.com, then share the link here.



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

Please share the information requested in comment#2 to proceed further.



su...@google.com <su...@google.com> [#4](#)

Status: Won't Fix (Infeasible)

We are closing this issue since we didn't receive a response. If you are still facing this problem, please open a new issue and add the relevant information along with reference to this issue.