

Fixed

Bug

P3

+ Add Hotlist

STATUS UPDATE No update yet.

Edit

DESCRIPTION wg...@eastsidegamestudio.com created issue [#1](#)

Apr 11, 2023 04:50AM

Component used: Memory Advice Unitypackage

Version used: 1.0.0-beta01

Devices/Android versions reproduced on: A large number

We were not able to reproduce the issue in house, however, rolling out to the general public gave numerous errors all with libmemory_advice.so at the top of the stack captured in bugsnag. We were at ~8% crash rate when attempting to get the state of the memory. We disabled the feature to check for memory remotely.

SIGABRT: Abort program

0 libc.so +0x51068 abort

1 libmemory_advice.so +0xe2180 memory_advice::MemoryAdviceImpl::GetAdvice()

2 libmemory_advice.so +0xe0674 memory_advice::MemoryAdviceImpl::GetMemoryState()

3 libil2cpp.so +0xf2b0f0 0x728aea60f4

4 libil2cpp.so +0xf2c218 0x728aea721c

5 libil2cpp.so +0x120fd20 0x728b18ad24

6 libil2cpp.so +0x10c6b08 0x728b041b0c

7 libil2cpp.so +0x1cd0420 0x728bc4b424

8 libil2cpp.so +0x1cd0a48 0x728bc4ba4c

9 libil2cpp.so +0x25520f0 0x728c4cd0f4

10 libil2cpp.so +0x11468ec 0x728b0c18f0

11 libil2cpp.so +0x28496bc 0x728c7c46c0

12 libil2cpp.so +0x2848cb8 0x728c7c3cbc

13 libil2cpp.so +0x28489ec 0x728c7c39f0

14 libil2cpp.so +0xaca9bc 0x728aa459c0

15 libil2cpp.so +0xcb0b34 0x728ac2bb38

16 libunity.so +0x620d24 0x72aa676d28

17 libunity.so +0x624f80 0x72aa67af84

18 libunity.so +0x63a6d8 0x72aa6906dc

19 libunity.so +0x48828c 0x72aa4de290

20 libunity.so +0x546e74 0x72aa59ce78

21 libunity.so +0x546ea8 0x72aa59ceac

22 libunity.so +0x5470ec 0x72aa59d0f0

23 libunity.so +0x69e8d4 0x72aa6f48d8

24 libunity.so +0x6b52e4 0x72aa70b2e8

25 libart.so +0x461550 art_quick_generic_jni_trampoline

26 libart.so +0x20a2ac nterp_helper

27 base.odex +0xe69428 0x72f3b0742c

28 libart.so +0x209330 nterp_helper

29 base.odex +0xe688a2 0x72f3b068a6

30 boot.oat +0xea1140 android.os.Handler.dispatchMessage

Mon Apr 10 2023 12:49:35 GMT-0600 (Mountain Daylight Time).png 34 KB [View](#) [Download](#)

Reporter

wg...@eastsidegamestudio.c...

Type

Bug

Priority

P3

Severity

S2

Status

Fixed

Access

Default access

View

Expanded Access?

Assignee

ar...@google.com

Verifier

--

Collaborators

CC

ji...@google.com

vr...@google.com

wg...@eastsidegamestudio.com

AOSP ID

--

Estimate

--

Found In

--

Targeted To

--

Verified In

--

In Prod

Show 1 additional field

✓ Links (1)

Hide all

↻ Links (1)

"<https://android-review.googlesource.com/2743801>"

ap...@ #6

COMMENTS

All comments

↓ Oldest first

vr...@google.com <vr...@google.com>

Apr 11, 2023 10:47PM

Reassigned to ar...@google.com.

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

Apr 12, 2023 12:45AM

Are you able to reproduce this? Any messages in logcat regarding this?

wg...@eastsidegamestudio.com <wg...@eastsidegamestudio.com> [#3](#)

We cannot seem to reproduce the issue in house with our limited range of devices, but we do see very high amounts of crashes. I'm looking over what logs we have available through Google Play Console's Vital reports. Most of the crashes from the memory advice plugin look like the crash below pulled from Android Vitals.

We will attempt to get logcat logs internally. We typically have a very low crash rate ~0.20%.

*** *** *** *** *** *** *** *** *** *** *** ***

pid: 0, tid: 12332 >>> com.eastsidegames.theofficeswm <<<

backtrace:

```
#00 pc 0x0000000000531f4 /apex/com.android.runtime/lib64/bionic/libc.so (abort+164)
#01 pc 0x0000000000e2184 /data/app/~~7PtYLCxs8Va37MLTJ33zVw==/com.eastsidegames.theofficeswm-
xysYVsz5QYseX1lGyTnEyw==/lib/arm64/libmemory_advice.so (memory_advice::MemoryAdviceImpl::GetAdvice()+6108)
#02 pc 0x0000000000e0678 /data/app/~~7PtYLCxs8Va37MLTJ33zVw==/com.eastsidegames.theofficeswm-
xysYVsz5QYseX1lGyTnEyw==/lib/arm64/libmemory_advice.so (memory_advice::MemoryAdviceImpl::GetMemoryState()+68)
#03 pc 0x0000000000f2b0f4 /data/app/~~7PtYLCxs8Va37MLTJ33zVw==/com.eastsidegames.theofficeswm-
xysYVsz5QYseX1lGyTnEyw==/lib/arm64/libil2cpp.so
#04 pc 0x0000000000f2c21c /data/app/~~7PtYLCxs8Va37MLTJ33zVw==/com.eastsidegames.theofficeswm-
xysYVsz5QYseX1lGyTnEyw==/lib/arm64/libil2cpp.so
#05 pc 0x000000000120fd24 /data/app/~~7PtYLCxs8Va37MLTJ33zVw==/com.eastsidegames.theofficeswm-
xysYVsz5QYseX1lGyTnEyw==/lib/arm64/libil2cpp.so
#06 pc 0x00000000010c6b0c /data/app/~~7PtYLCxs8Va37MLTJ33zVw==/com.eastsidegames.theofficeswm-
xysYVsz5QYseX1lGyTnEyw==/lib/arm64/libil2cpp.so
#07 pc 0x0000000001cd0424 /data/app/~~7PtYLCxs8Va37MLTJ33zVw==/com.eastsidegames.theofficeswm-
xysYVsz5QYseX1lGyTnEyw==/lib/arm64/libil2cpp.so
#08 pc 0x0000000001cd0a4c /data/app/~~7PtYLCxs8Va37MLTJ33zVw==/com.eastsidegames.theofficeswm-
xysYVsz5QYseX1lGyTnEyw==/lib/arm64/libil2cpp.so
#09 pc 0x00000000025520f4 /data/app/~~7PtYLCxs8Va37MLTJ33zVw==/com.eastsidegames.theofficeswm-
xysYVsz5QYseX1lGyTnEyw==/lib/arm64/libil2cpp.so
#10 pc 0x00000000011468f0 /data/app/~~7PtYLCxs8Va37MLTJ33zVw==/com.eastsidegames.theofficeswm-
xysYVsz5QYseX1lGyTnEyw==/lib/arm64/libil2cpp.so
#11 pc 0x00000000028496c0 /data/app/~~7PtYLCxs8Va37MLTJ33zVw==/com.eastsidegames.theofficeswm-
xysYVsz5QYseX1lGyTnEyw==/lib/arm64/libil2cpp.so
#12 pc 0x0000000002848cbc /data/app/~~7PtYLCxs8Va37MLTJ33zVw==/com.eastsidegames.theofficeswm-
xysYVsz5QYseX1lGyTnEyw==/lib/arm64/libil2cpp.so
#13 pc 0x00000000028489f0 /data/app/~~7PtYLCxs8Va37MLTJ33zVw==/com.eastsidegames.theofficeswm-
xysYVsz5QYseX1lGyTnEyw==/lib/arm64/libil2cpp.so
#14 pc 0x0000000000aca9c0 /data/app/~~7PtYLCxs8Va37MLTJ33zVw==/com.eastsidegames.theofficeswm-
xysYVsz5QYseX1lGyTnEyw==/lib/arm64/libil2cpp.so
#15 pc 0x0000000000cb0b38 /data/app/~~7PtYLCxs8Va37MLTJ33zVw==/com.eastsidegames.theofficeswm-
xysYVsz5QYseX1lGyTnEyw==/lib/arm64/libil2cpp.so
#16 pc 0x0000000000620d28 /data/app/~~7PtYLCxs8Va37MLTJ33zVw==/com.eastsidegames.theofficeswm-
xysYVsz5QYseX1lGyTnEyw==/lib/arm64/libunity.so
#17 pc 0x0000000000624f84 /data/app/~~7PtYLCxs8Va37MLTJ33zVw==/com.eastsidegames.theofficeswm-
xysYVsz5QYseX1lGyTnEyw==/lib/arm64/libunity.so
#18 pc 0x000000000063a6dc /data/app/~~7PtYLCxs8Va37MLTJ33zVw==/com.eastsidegames.theofficeswm-
xysYVsz5QYseX1lGyTnEyw==/lib/arm64/libunity.so
#19 pc 0x0000000000488290 /data/app/~~7PtYLCxs8Va37MLTJ33zVw==/com.eastsidegames.theofficeswm-
xysYVsz5QYseX1lGyTnEyw==/lib/arm64/libunity.so
#20 pc 0x0000000000546e78 /data/app/~~7PtYLCxs8Va37MLTJ33zVw==/com.eastsidegames.theofficeswm-
xysYVsz5QYseX1lGyTnEyw==/lib/arm64/libunity.so
#21 pc 0x0000000000546eac /data/app/~~7PtYLCxs8Va37MLTJ33zVw==/com.eastsidegames.theofficeswm-
xysYVsz5QYseX1lGyTnEyw==/lib/arm64/libunity.so
#22 pc 0x00000000005470f0 /data/app/~~7PtYLCxs8Va37MLTJ33zVw==/com.eastsidegames.theofficeswm-
xysYVsz5QYseX1lGyTnEyw==/lib/arm64/libunity.so
#23 pc 0x000000000069e8d8 /data/app/~~7PtYLCxs8Va37MLTJ33zVw==/com.eastsidegames.theofficeswm-
xysYVsz5QYseX1lGyTnEyw==/lib/arm64/libunity.so
#24 pc 0x00000000006b52e8 /data/app/~~7PtYLCxs8Va37MLTJ33zVw==/com.eastsidegames.theofficeswm-
xysYVsz5QYseX1lGyTnEyw==/lib/arm64/libunity.so
#25 pc 0x0000000000461554 /apex/com.android.art/lib64/libart.so (art_quick_generic_jni_trampoline+148)
#26 pc 0x000000000020a2b0 /apex/com.android.art/lib64/libart.so (nterp_helper+4016)
#27 pc 0x0000000000209334 /apex/com.android.art/lib64/libart.so (nterp_helper+52)
#28 pc 0x0000000000a21434 /data/misc/apexdata/com.android.art/dalvik-cache/arm64/boot.oat
```

ar...@google.com <ar...@google.com>

May 25, 2023 09:09PM

Reassigned to bk...@google.com.

ar...@google.com <ar...@google.com>

Jun 1, 2023 01:16AM

Reassigned to ar...@google.com.

ar...@google.com <ar...@google.com> #4

Jun 6, 2023 02:19AM

Seems that `abort()` is caused by an unhandled exception in `Json::object::at()`. We'll see what is the best way of fixing this.

ar...@google.com <ar...@google.com> #5

Aug 24, 2023 08:31PM

Do you have any stats regarding whether it happens on 32-bit or 64-bit devices?



ar...@google.com <ar...@google.com> Sep 8, 2023 01:22AM

Accepted by ar...@google.com.



ap...@google.com <ap...@google.com> [#6](#) Sep 9, 2023 12:17AM

Project: platform/frameworks/opt/gamesdk
Branch: main

commit 6af5fd85f8d0069e9cd5cd96eb75a0ce07c6c8a6
Author: Artyom Palvelev <artyompp@google.com>
Date: Thu Sep 07 16:03:53 2023

attach MemoryAdvice thread to JVM

MemoryAdvice functions can be potentially called from any thread.
As they need to perform JNI calls, it's necessary to make JVM aware of
the context of the new thread. This commit adds AttachCurrentThread()
call when necessary.

Bug: 277551258
Test: run either AGDKTunnel or Hogger sample
Change-Id: I09d1f266655c038e444d2587d86890d33f98a34c

M games-memory-advice/core/memory_advice_impl.cpp
M include/memory_advice/memory_advice.h
M src/common/jni/jnictx.cpp

<https://android-review.googlesource.com/2743801>



ar...@google.com <ar...@google.com> [#7](#) Sep 14, 2023 01:45AM

Marked as fixed.

We fixed a threading issue in the memory-advice library. Please check whether the problem has gone. Feel free to re-open this issue if the problem persists.