PΔ

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A

Fixed

Default access View

na...@google.com

cf...@google.com

en...@google.com

na...@google.com

191859

User

jo...@sonymobile.com

ji...@gmail.com

Priority

Severity

Status

Access

Assignee

Verifier

CC

AOSP ID

Found In

ReportedBy

Targeted To

Verified In

In Prod

Collaborators

Oct 29, 2015 06:36PM



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Android Public Tracker 37068652 ▼

IssueTracker

← C ☆ Native Crash in system_server when DUT boot. Hotlists (2) Mark as Duplicate Δ

Comments (11) Dependencies Duplicates (0) Blocking (0) Resources (4) Bug P4 Fixed + Add Hotlist [AOSP] Released NeedsInfo ji...@gmail.com Reporter STATUS UPDATE No update yet. Type Bug

It will not entering Android after Native Crash when DUT boot.

This is really serious problem.

Reproduce rate: very low. But not only once.

DESCRIPTION ji...@gmail.com created issue #1

10-22 17:15:59.265 896 896 F libc: Fatal signal 7 (SIGBUS), code 2, fault addr 0x7f8ac65000 in tid 896 (system_server)

10-22 17:15:59.381 315 315 I DEBUG: Revision: '0' 10-22 17:15:59.381 315 315 I DEBUG: ABI: 'arm64'

10-22 17:15:59.381 315 315 I DEBUG: pid: 896, tid: 896, name: system_server >>> system_server <<<

10-22 17:15:59.381 315 315 | DEBUG : signal 7 (SIGBUS), code 2 (BUS ADRERR), fault addr 0x7f8ac65000

10-22 17:15:59.400 315 315 I DEBUG: x4 0000000000000000 x5 000000000000 x6 0000007f8ac64fb8 x7 0000332600090022

10-22 17:15:59.400 315 315 | DEBUG : x8 0000017c000ee589 x9 0000334500090012 x10 00000254000ed8bd x11 0000344700090022

10-22 17:15:59.400 315 315 I DEBUG: x12 000000cc000edb11 x13 0000322400090022 x14 00000254000ed8bd x15

0000000000000000

10-22 17:15:59.400 315 315 I DEBUG: x16 0000007fb0354e70 x17 0000007fb0967680 x18 000000000000000x19

000800000008000

10-22 17:15:59.400 315 315 | DEBUG : x20 000000000000000000 x21 0000007fdd97b788 x22 0000000000000161 x23

10-22 17:15:59 400 315 315 LDEBLIG: x24 0000007fdd983788 x25 000000000000000 x26 00000000014e986 x27

10-22 17:15:59.400 315 315 | DEBUG : x28 000000000000000 x29 0000007fdd97b680 x30 0000007fb033538c

10-22 17:15:59.400 315 315 | DEBUG : sp 0000007fdd97b680 pc 0000007fb09677ac pstate 000000020000000

10-22 17:15:59.401 315 315 I DEBUG:

10-22 17:15:59.401 315 315 | DEBUG : backtrace:

10-22 17:15:59.401 315 315 I DEBUG: #00 pc 0000000000137ac /system/lib64/libc.so (memcpy+300)

10-22 17:15:59.401 315 315 I DEBUG: #01 pc 000000000002e388 /system/lib64/libandroidfw.so

10-22 17:15:59.401 315 315 I DEBUG: #02 pc 0000000000002f258 /system/lib64/libandroidfw.so (ExtractToMemory+328)

10-22 17:15:59.401 315 315 I DEBUG: #03 pc 000000000002f398 /system/lib64/libandroidfw.so (ExtractEntryToFile+268)

10-22 17:15:59.401 315 315 I DEBUG: #04 pc 00000000000285a8 /system/lib64/libandroidfw.so

(android::ZipFileRO::uncompressEntry(void*, int) const+12)

10-22 17:15:59.401 315 315 | DEBUG: #05 pc 000000000008f27c /system/lib64/libandroid_runtime.so

10-22 17:15:59.402 315 315 I DEBUG: #06 pc 000000000008f66c /system/lib64/libandroid_runtime.so

10-22 17:15:59.402 315 315 I DEBUG: #07 pc 000000000008f77c /system/lib64/libandroid_runtime.so

10-22 17:15:59.402 315 315 | DEBUG : #08 pc 0000000000378740 /system/framework/arm64/boot.oat

Back trace:

#00 0137ac /system/lib64/libc.so (memcpy+300)

memcpy

bionic/libc/arch-arm64/generic/bionic/memcpy.S:171

#01 02e388 /system/lib64/libandroidfw.so

_ZL13InflateToFileiPK8ZipEntryPhjPm.isra.0

system/core/libziparchive/zip_archive.cc:1081

#02 02f258 /system/lib64/libandroidfw.so (ExtractToMemory+328)

ExtractToMemory

system/core/libziparchive/zip_archive.cc:1105

#03 02f398 /system/lib64/libandroidfw.so (ExtractEntryToFile+268)

system/core/include/utils/FileMap.h:91

#04 0285a8 /system/lib64/libandroidfw.so (android::ZipFileRO::uncompressEntry(void*, int) const+12)

android::ZipFileRO::uncompressEntry(void*, int) const

frameworks/base/libs/androidfw/ZipFileR0.cpp:257

#05 08f27c /system/lib64/libandroid_runtime.so

android::copyFileIfChanged(_JNIEnv*, void*, android::ZipFileRO*, void*, char const*)

frameworks/base/core/jni/com_android_internal_content_NativeLibraryHelper.cpp:248

#06 08f66c /system/lib64/libandroid_runtime.so

 $and roid :: iterate Over Native Files (_JNIEnv^*, long, _jstring^*, and roid :: install_status_t (*) (_JNIEnv^*, void^*, and roid :: Zip File RO^*, void^*, characteristic roid :: Zip File RO^*, characteristic r$ const*), void*)

libnativehelper/include/nativehelper/ini.h:851

#07 08f77c /system/lib64/libandroid_runtime.so

android::register_com_android_internal_content_NativeLibraryHelper(_JNIEnv*)

frameworks/base/core/jni/com_android_internal_content_NativeLibraryHelper.cpp:576

#08 378740 /system/framework/arm64/boot.oat

??:?

✓ Links (4)

"http://b.ge"

Hide all

ji...@ #2

"http://b.ne" ji...@ <u>#2</u> ...e http://developer.android.com/tools/help/logcat.html . Copy and paste relevant sections of the logcat output into this is... " rn...@ #3 "We have seen this, yes. The fix for our problem was uploaded here: https://android-review.googlesource.com/#/c/146996/." jo...@ #10 COMMENTS All comments → Oldest first ji...@gmail.com <ji...@gmail.com>#2 Oct 29, 2015 07:58PM I found my codebase exist difference with AOSP codebase. Here's backtrace in my codebase. #00 0137ac /system/lib64/libc.so (memcpy+300) bionic/libc/arch-arm64/generic/bionic/memcpy.S:171 154 /* Critical loop. Start at a new cache line boundary. Assuming 155 * 64 bytes per line this ensures the entire loop is in one line. */ 156 .p2align 6 157 .Lcpy_body_large: 158 /* There are at least 128 bytes to copy. */ 159 Idp A_I, A_h, [src, #0] 160 sub dst, dst, #16 /* Pre-bias. */ 161 ldp B_l, B_h, [src, #16] 162 ldp C_l, C_h, [src, #32] 163 Idp D_I, D_h, [src, #48]! /* src += 64 - Pre-bias. */ 164 1: 165 stp A_I, A_h, [dst, #16] 166 ldp A_I, A_h, [src, #16] 167 stp B_I, B_h, [dst, #32] 168 ldp B_I, B_h, [src, #32] 169 stp C_l, C_h, [dst, #48] 170 ldp C_l, C_h, [src, #48] 171 D_I, D_h, [dst, #64]! stp 172 Idp D_I, D_h, [src, #64]! subs count, count, #64 173 174 <u>b.ge</u> 1b 175 A_I, A_h, [dst, #16] stp 176 B_I, B_h, [dst, #32] stp 177 stp C_I, C_h, [dst, #48] 178 D_I, D_h, [dst, #64] stp 179 add src, src, #16 180 add dst, dst, #64 + 16 181 tst count, #0x3f 182 b.ne .Ltail63 183 ret 184 END(memcpy) #01 02e388 /system/lib64/libandroidfw.so _ZL13InflateToFileiPK8ZipEntryPhjPm.isra.0 system/core/libziparchive/zip_archive.cc:1081 #02 02f258 /system/lib64/libandroidfw.so (ExtractToMemory+328) ExtractToMemory system/core/libziparchive/zip_archive.cc:1105 1078 assert(zerr == Z_STREAM_END); /* other errors should've been caught */ 1079 1080 // stream.adler holds the crc32 value for such streams. 1081 *crc_out = zstream.adler; 1082 1083 if (zstream.total_out != uncompressed_length || compressed_length != 0) { ALOGW("Zip: size mismatch on inflated file (%lu vs %" PRlu32 ")", 1085 zstream.total_out.uncompressed_length): 1086 result = kInconsistentInformation; 1087 goto z_bail; 1088 } 1089 1090 result = 0; 1091 1092 z_bail: 1093 inflateEnd(&zstream); /* free up any allocated structures */ 1095 return result; 1096 } 1097 1098 int32_t ExtractToMemory(ZipArchiveHandle handle, ZipEntry* entry, uint8_t* begin, uint32_t size) { 1100 ZipArchive* archive = (ZipArchive*) handle; 1101 const uint16_t method = entry->method; 1102 off64_t data_offset = entry->offset; 1103 1104 if (Iseek64(archive->fd, data_offset, SEEK_SET) != data_offset) {

1105

ALOGW("Zip: Iseek to data at %" PRId64 " failed", (int64_t)data_offset);

```
1106 return kloError;
1107 }
#03 02f398 /system/lib64/libandroidfw.so (ExtractEntryToFile+268)
  system/core/include/utils/FileMap.h:91
     * Call this when mapping is no longer needed.
88
89
90
     void release(void) {
91
       if (--mRefCount <= 0)
92
          delete this;
93
#04 0285a8 /system/lib64/libandroidfw.so (android::ZipFileRO::uncompressEntry(void*, int) const+12)
  android::ZipFileRO::uncompressEntry(void*, int) const
  frameworks/base/libs/androidfw/ZipFileRO.cpp:257
#05 08f27c /system/lib64/libandroid_runtime.so
  android::copyFileIfChanged(_JNIEnv*, void*, android::ZipFileRO*, void*, char const*)
  frameworks/base/core/jni/com_android_internal_content_NativeLibraryHelper.cpp:248
246
     // Set the modification time for this file to the ZIP's mod time.
     struct timeval times[2];
     times[0].tv_sec = st.st_atime;
248
249
      times[1].tv_sec = modTime;
      times[0].tv_usec = times[1].tv_usec = 0;
250
251
      if (utimes(localTmpFileName, times) < 0) {
252
        ALOGI("Couldn't change modification time on %s: %s\n", localTmpFileName, strerror(errno));
253
        unlink(localTmpFileName);
        return INSTALL_FAILED_CONTAINER_ERROR;
254
255
#06 08f66c /system/lib64/libandroid_runtime.so
  android::iterateOverNativeFiles(_JNIEnv*, long, _jstring*, android::install_status_t (*)(_JNIEnv*, void*, android::ZipFileRO*, void*,
char const*), void*)
  libnativehelper/include/nativehelper/jni.h:851
      void ReleaseStringUTFChars(jstring string, const char* utf)
850
      { functions->ReleaseStringUTFChars(this, string, utf); }
852
#07 08f77c /system/lib64/libandroid_runtime.so
  android::register_com_android_internal_content_NativeLibraryHelper(_JNIEnv*)
  frameworks/base/core/jni/com_android_internal_content_NativeLibraryHelper.cpp:576
573 int register_com_android_internal_content_NativeLibraryHelper(JNIEnv *env)
574 {
575 return AndroidRuntime::registerNativeMethods(env,
             "com/android/internal/content/NativeLibraryHelper", gMethods, NELEM(gMethods));
576
577}
                                                                                                  Oct 29, 2015 11:24PM :
rn...@google.com <rn...@google.com><u>#3</u>
Assigned to rn...@google.com.
Can you provide the below requested information to better understand the issue:
SDK version
Which version of the SDK are you using?
Android build
Which Android build are you using? (e.g. KVT49L)
Device used
Which device did you use to reproduce this issue?
Steps to reproduce
What steps do others need to take in order to reproduce the issue themselves?
How frequently does this issue occur? (e.g 100% of the time, 10% of the time)
Expected output
What do you expect to occur?
Current output
What do you see instead?
logcat output
```

See http://developer.android.com/tools/help/logcat.html. Copy and paste relevant sections of the logcat output into this issue.

Android bug report After reproducing the issue, press the volume up, volume down, and power buttons simultaneously. This will capture a bug report on your device in the "bug reports" directory. Attach this file to this issue. Note: Please upload the bug report and screenshot to google drive and share the folder to and mention the shared link here.	
Hi, SDK version None.	
Android build 5.0	
Device used Xperia	
Steps to reproduce The 2 fail cases have some different step.	
Both them transfer failed/interrupted. [Condition1] 1.Move media/APP files from internal storage to SD card. 2.Press HW reset pin when DUT was moving files from internal storage to SD card.	d. (DUT will be power off)
3.Power on DUT. [Condition2]	
1. Move media/APP files from internal storage to SD card. 2. Wait transfer finished, but it had been interrupted by un-known reason. (We implemented a hint window pop-up about this transfer fail scenario.) 3. Reboot DUT	
Frequency Just two times, about 2/50.	
Expected output DUT can boot-up/entering Android OS normally.	
Current output All black screen. No entering android OS and it can't be recovery by reboot.	
logcat output Please refer to attachment	
Android bug report None, please refer to logcat output	
deleted 0 B ②	Restricted
en@google.com <en@google.com><u>#5</u></en@google.com>	Oct 31, 2015 02:17AM
do you have the corrupt compressed file in question?	
na@google.com <na@google.com><u>#6</u></na@google.com>	Oct 31, 2015 02:23AM
I don't really know whether this is due to a corrupt file, looks more like a race con- another thread)	dition to me (i.e, the FileMap was destroyed on
ji@gmail.com <ji@gmail.com><u>#7</u></ji@gmail.com>	Nov 2, 2015 12:33PM
[Comment deleted]	
ji@gmail.com <ji@gmail.com><u>#8</u></ji@gmail.com>	Nov 2, 2015 05:39PM
Hi, I don't have the corrupt compressed file. Actually, I don't know what file is the corrupt file.	
na@google.com <na@google.com><u>#9</u></na@google.com>	Nov 5, 2015 09:52PM
+ johan : does this ring a bell over at Sony ? I'm finding it hard to judge whether the something specific to the device under test.	nis is a rare race condition we've never seen or
jo@sonymobile.com <jo@sonymobile.com>#10</jo@sonymobile.com>	Nov 6, 2015 02:12AM

We have seen this, yes. The fix for our problem was uploaded here: https://android-review.googlesource.com/#/c/146996/.

na...@google.com <na...@google.com>#11

Marked as fixed, reassigned to na...@google.com.

Marking this as Released because this change is in android 6.0. JingCian, feel free to cherry-pick this change into your branches.

Sony folks: thanks (again) for your contribution.

Ah right, I'm not sure how I forgot about that change. Excellent memory.