

Figure - Bug #116438

测试 Test-ST # 113421 (New): V4.0功能与专项测试

测试 Test-ST # 113422 (New): V4.0专项--AF专项--monkey测试

【AF】【EVT3】【Monkey】Monkey测试12小时，出现ANR: com.android.systemui (1)

2023-02-22 11:10 - CD Test赵飞

Status:	CLOSED	Start date:	2023-02-22
Priority:	Normal	Due date:	
Assignee:	CD TEST-方永红	% Done:	0%
Category:	BSP	Estimated time:	0.00 hour
Target version:	VC1_FSE_0082_20230314	Found Version:	FlatBuild_HH_VX1_MCE_FSE.M.D.user.01.00.X101.2
Need_Info:	--	Degrated:	--
Resolution:	INVALID	Verified Version:	FlatBuild_HH_MCE_FSE.M.R.user.01.00.0083.C101(X
Severity:	Normal	Fixed Version:	
Reproducibility:	Frequently	Root cause:	音频问题根本原因是底层没有音频时钟。需要
Test Type:	Monkey Test		
Description			
【执行命令】			
adb shell monkey --pkg-blacklist-file /sdcard/blacklist.txt --ignore-crashes --ignore-timeouts --ignore-security-exceptions --monitor-native-crashes --ignore-native-crashes -s 20 --throttle 500 --pct-touch 30 --pct-motion 15 --pct-nav 15 --pct-majornav 15 --pct-syskeys 5 --pct-appswitch 10 --pct-anyevent 10 --ignore-crashes -v -v -v 86400 2>/sdcard/error.txt 1>/sdcard/info.txt			
【错误信息】			
// NOT RESPONDING: com.android.systemui (pid 1979) ANR in com.android.systemui PID: 1979 Reason: Input dispatching timed out (f52c3ef NavigationBar0 (server) is not responding. Waited 5001ms for MotionEvent) Frozen: false Load: 1.6 / 1.76 / 1.76 ----- Output from /proc/pressure/memory ----- some avg10=0.00 avg60=0.00 avg300=0.00 total=610604 full avg10=0.00 avg60=0.00 avg300=0.00 total=229412 ----- End output from /proc/pressure/memory ----- CPU usage from 131218ms to 0ms ago (2023-02-18 19:19:35.217 to 2023-02-18 19:21:46.436): 20% 990/surfaceflinger: 15% user + 5.4% kernel / faults: 1354 minor 14% 861/vendor.qti.hardware.display.composer-service: 9.4% user + 5.2% kernel / faults: 449 minor 10% 1514/system_server: 6.7% user + 3.5% kernel / faults: 261929 minor 8.1% 1979/com.android.systemui: 6.8% user + 1.2% kernel / faults: 20437 minor 7.6% 1209/media.codec: 2.8% user + 4.7% kernel / faults: 88 minor 4.7% 22878/com.android.settings: 3.7% user + 1% kernel / faults: 31631 minor 3.5% 17314/app_process: 2% user + 1.4% kernel / faults: 203 minor 2.3% 2553/com.android.launcher3: 1.6% user + 0.7% kernel / faults: 7667 minor 2% 2699/adbd: 0.7% user + 1.3% kernel 1.4% 287/kgsl_worker_thr: 0% user + 1.4% kernel 1.3% 28509/kworker/u16:2-kgsl-mementry: 0% user + 1.3% kernel 1.2% 504/logd: 0.2% user + 0.9% kernel / faults: 645 minor 1.1% 715/crtc_commit:125: 0% user + 1.1% kernel			

1% 23561/kworker/u16:18-adb: 0% user + 1% kernel			
...			
【日志】 ftp://cdiot@192.168.87.46/Pre_figure/Test_Log/Bug_116416/Tlog.zip			
Related issues:			
Related to Figure - Bug # 116439: 【AF】 【EVT3】 【Monkey】 Monke...		CLOSED	2023-02-22 2023-03-14

History

- #1 - 2023-02-27 19:57 - CD FW 曹覃刚
- Category changed from CD-FW to AUDIO-FW
 - Status changed from New to ASSIGNED
 - Assignee changed from CD FW 曹覃刚 to CD BSP 何伟

Hi 何伟

■ 我的分析

通过检查问题发生时的日志, 在ANR发生前几秒, 都存在下列异常

02-18 19:21:44.100 6429 6429 F DEBUG : *

02-18 19:21:44.100 6429 6429 F DEBUG : Build fingerprint: 'TC/figure_CN/figure:12/SKQ1.220201.001/2134:user/test-keys'

02-18 19:21:44.100 6429 6429 F DEBUG : Revision: '0'

02-18 19:21:44.100 6429 6429 F DEBUG : ABI: 'arm'

02-18 19:21:44.100 6429 6429 F DEBUG : Timestamp: 2023-02-18 19:21:44.057191101+0800

02-18 19:21:44.100 6429 6429 F DEBUG : Process uptime: 0s

02-18 19:21:44.100 6429 6429 F DEBUG : Cmdline: /vendor/bin/hw/android.hardware.audio.service

02-18 19:21:44.100 6429 6429 F DEBUG : pid: 675, tid: 675, name: audio.service >>> /vendor/bin/hw/android.hardware.audio.service <<<

02-18 19:21:44.100 6429 6429 F DEBUG : uid: 1041

02-18 19:21:44.100 6429 6429 F DEBUG : signal 35 (<debuggerd signal>), code 1 (SI_QUEUE from pid 814, uid 1041), fault addr -----

02-18 19:21:44.100 6429 6429 F DEBUG : r0 00000004 r1 c0306201 r2 ff8c26a8 r3 ff8c25fc

02-18 19:21:44.100 6429 6429 F DEBUG : r4 ddc61a53 r5 ef85a138 r6 ff8c26a8 r7 00000036

02-18 19:21:44.100 6429 6429 F DEBUG : r8 00000000 r9 ef001b64 r10 ff8c26b8 r11 ff8c26a8

02-18 19:21:44.100 6429 6429 F DEBUG : ip 00000100 sp ff8c25e0 lr ef8082cb pc ef83a5a8

02-18 19:21:44.100 6429 6429 F DEBUG : backtrace:

02-18 19:21:44.100 6429 6429 F DEBUG : #00 pc 000715a8 /apex/com.android.runtime/lib/bionic/libc.so (_ioctl+8) (BuildId: cc194ef76ee932851b23cc2e4f46d55f)

02-18 19:21:44.100 6429 6429 F DEBUG : #01 pc 0003f2c7 /apex/com.android.runtime/lib/bionic/libc.so (ioctl+26) (BuildId: cc194ef76ee932851b23cc2e4f46d55f)

02-18 19:21:44.100 6429 6429 F DEBUG : #02 pc 0005ff09 /apex/com.android.vndk.v30/lib/libhidlbase.so

(android::hardware::IPCThreadState::getAndExecuteCommand()+160) (BuildId: ae84f31d0a55afdbe06ed13729dae8a2)

02-18 19:21:44.100 6429 6429 F DEBUG : #03 pc 0006100d /apex/com.android.vndk.v30/lib/libhidlbase.so

(android::hardware::IPCThreadState::joinThreadPool(bool)+56) (BuildId: ae84f31d0a55afdbe06ed13729dae8a2)

02-18 19:21:44.100 6429 6429 F DEBUG : #04 pc 000026b5 /vendor/bin/hw/android.hardware.audio.service (main+2564) (BuildId: b5ba2845ffd2ad1c80c85239344b8c71)

02-18 19:21:44.101 6429 6429 F DEBUG : #05 pc 0003248b /apex/com.android.runtime/lib/bionic/libc.so (_libc_init+54) (BuildId: cc194ef76ee932851b23cc2e4f46d55f)

02-18 19:21:44.959 6435 6435 F DEBUG :

02-18 19:21:44.959 6435 6435 F DEBUG : Build fingerprint: 'TC/figure_CN/figure:12/SKQ1.220201.001/2134:user/test-keys'

02-18 19:21:44.959 6435 6435 F DEBUG : Revision: '0'

02-18 19:21:44.959 6435 6435 F DEBUG : ABI: 'arm64'

02-18 19:21:44.959 6435 6435 F DEBUG : Timestamp: 2023-02-18 19:21:44.885273288+0800

02-18 19:21:44.959 6435 6435 F DEBUG : Process uptime: 0s

02-18 19:21:44.959 6435 6435 F DEBUG : Cmdline: /system/bin/audioserver

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02-18 19:21:44.959 6435 6435 F DEBUG : pid: 814, tid: 837, name: TimeCheckThread >>> /system/bin/audioserver <<<
02-18 19:21:44.959 6435 6435 F DEBUG : uid: 1041
02-18 19:21:44.960 6435 6435 F DEBUG : signal 6 (SIGABRT), code 1 (SI_QUEUE), fault addr -----
02-18 19:21:44.960 6435 6435 F DEBUG : Abort message: 'TimeCheck timeout for IAudioFlinger command 37'
02-18 19:21:44.960 6435 6435 F DEBUG : x0 0000000000000000 x1 0000000000000345 x2 0000000000000006 x3 000000706b121530
02-18 19:21:44.960 6435 6435 F DEBUG : x4 6d686b456e686374 x5 6d686b456e686374 x6 6d686b456e686374 x7 7f7f7f7f7f7f7f7f
02-18 19:21:44.960 6435 6435 F DEBUG : x8 00000000000000f0 x9 6f435ef1c1655d16 x10 0000000000000000 x11 fffff80fffffd
02-18 19:21:44.960 6435 6435 F DEBUG : x12 0000000000000001 x13 000000000000002f x14 000000706b1216c0 x15 0000000034155555
02-18 19:21:44.960 6435 6435 F DEBUG : x16 00000073aaed3060 x17 00000073aaef560 x18 000000706a588000 x19 000000000000032e
02-18 19:21:44.960 6435 6435 F DEBUG : x20 0000000000000345 x21 00000000ffffff x22 b4000070b59ead0 x23 b4000070959e44b4
02-18 19:21:44.960 6435 6435 F DEBUG : x24 b4000070959e44b4 x25 000000706b121cb0 x26 000000706b121ff8 x27 000000000000fc000
02-18 19:21:44.960 6435 6435 F DEBUG : x28 000000706b029000 x29 000000706b1215b0
02-18 19:21:44.960 6435 6435 F DEBUG : lr 00000073aa5f95c sp 000000706b121510 pc 00000073aa5f988 pst 0000000000001000
02-18 19:21:44.960 6435 6435 F DEBUG : backtrace:
02-18 19:21:44.960 6435 6435 F DEBUG : #00 pc 0000000000051988 /apex/com.android.runtime/lib64/bionic/libc.so (abort+168) (BuildId:
369edc656806aeaf384cbeb8f7a347af)
02-18 19:21:44.960 6435 6435 F DEBUG : #01 pc 00000000000063b8 /system/lib64/liblog.so (_android_log_default_aborter+16) (BuildId:
467c2038cdfa767245f9280e657fdb85)
02-18 19:21:44.960 6435 6435 F DEBUG : #02 pc 0000000000006f14 /system/lib64/liblog.so (_android_log_assert+312) (BuildId:
467c2038cdfa767245f9280e657fdb85)
02-18 19:21:44.960 6435 6435 F DEBUG : #03 pc 0000000000035294 /system/lib64/libmediautils.so (android::TimeCheck::TimeCheckThread::threadLoop()+908)
(BuildId: d1ac2ddd5dabaddcca37691821970832)
02-18 19:21:44.960 6435 6435 F DEBUG : #04 pc 0000000000013654 /system/lib64/libutils.so (android::Thread::_threadLoop(void)+464) (BuildId:
b940f836006eead456c936e97e64d2d4)
02-18 19:21:44.960 6435 6435 F DEBUG : #05 pc 0000000000012de8 /system/lib64/libutils.so (thread_data_t::trampoline(thread_data_t const*)+408) (BuildId:
b940f836006eead456c936e97e64d2d4)
02-18 19:21:44.960 6435 6435 F DEBUG : #06 pc 00000000000b6a24 /apex/com.android.runtime/lib64/bionic/libc.so (_pthread_start(void*)+264) (BuildId:
369edc656806aeaf384cbeb8f7a347af)
02-18 19:21:44.960 6435 6435 F DEBUG : #07 pc 00000000000532bc /apex/com.android.runtime/lib64/bionic/libc.so (_start_thread+68) (BuildId:
369edc656806aeaf384cbeb8f7a347af)
02-18 19:21:44.993 1195 3379 W AudioSystem: AudioPolicyService server died!
02-18 19:21:44.993 1979 2601 W AudioSystem: AudioPolicyService server died!
02-18 19:21:44.993 1195 3379 W AudioSystem: AudioFlinger server died!
02-18 19:21:44.993 1979 2601 E AudioSystem-JNI: Command failed for android_media_AudioSystem_error_callback: -32
02-18 19:21:44.993 1979 2601 W AudioSystem: AudioFlinger server died!
02-18 19:21:44.993 1514 5504 W AudioSystem: AudioPolicyService server died!
02-18 19:21:44.993 22952 29375 W AudioSystem: AudioPolicyService server died!
02-18 19:21:44.993 1514 5504 W CaptureStateTracker: Audio policy service died
02-18 19:21:44.994 1514 5504 W AudioSystem: AudioPolicyService server died!
02-18 19:21:44.994 22878 28148 W AudioSystem: AudioPolicyService server died!
02-18 19:21:44.994 1514 5504 W AudioSystem: AudioPolicyService server died!
02-18 19:21:44.994 22952 29375 E AudioSystem-JNI: Command failed for android_media_AudioSystem_error_callback: -32
02-18 19:21:44.994 22952 29375 W AudioSystem: AudioFlinger server died!
02-18 19:21:44.994 22878 28148 E AudioSystem-JNI: Command failed for android_media_AudioSystem_error_callback: -32
02-18 19:21:44.994 1514 4746 E AudioSystem-JNI: Command failed for android_media_AudioSystem_error_callback: -32
02-18 19:21:44.994 22878 28148 W AudioSystem: AudioFlinger server died!
02-18 19:21:44.994 1514 4746 W AudioSystem: AudioFlinger server died!
02-18 19:21:44.994 6017 6164 E AudioSystem-JNI: Command failed for android_media_AudioSystem_error_callback: -32
01-01 16:02:30.405 0 0 I binder : release 814:836 transaction 8581901 in, still active
02-18 19:21:44.994 1514 1795 E AudioSystem-JNI: Command failed for android_media_AudioSystem_setStreamVolumeIndex: -32

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发生ANR前五秒均存在"android.hardware.audio.service"异常

02-18 19:21:44.100 发生"android.hardware.audio.service"异常

02-18 19:21:50.070 1514 6448 E ActivityManager: ANR in com.android.systemui
02-18 19:21:50.070 1514 6448 E ActivityManager: Reason: Input dispatching timed out (f52c3ef NavigationBar0 (server) is not responding. Waited 5001ms for MotionEvent)
02-18 21:10:16.948 发生"android.hardware.audio.service"异常
02-18 21:10:21.506 1514 4000 E ActivityManager: ANR in com.android.systemui:screenshot
02-18 21:10:21.506 1514 4000 E ActivityManager: Reason: Input dispatching timed out (a5ca2d6 ScreenshotAnimation (server) is not responding. Waited 5000ms for FocusEvent(hasFocus=true))

ANR原因都是超时未响应，且等待响应的时间为5秒，与发生"android.hardware.audio.service"异常的时间相呼应
发生ANR的原因似乎是由该异常引起

■ 下一步解析计划

请Audio的同学帮忙分析一下，"android.hardware.audio.service"异常发生的原因, 非常感谢

#2 - 2023-03-07 09:50 - CD TPM-王祥林

- Assignee changed from CD BSP何伟 to CD MM唐驭俊

#3 - 2023-03-07 10:38 - CD TPM-王祥林

- Target version set to VC1_FSE_0082_20230314

#4 - 2023-03-07 11:14 - CD TPM-王祥林

- Assignee changed from CD MM唐驭俊 to Multimedia组-RD3_TSCD 梁卿山

#5 - 2023-03-07 18:25 - Multimedia组-RD3_TSCD 梁卿山

- Assignee changed from Multimedia组-RD3_TSCD 梁卿山 to CD BSP何伟

Hi ALL,

■ 我的分析

当前分析到在ANR出现前，android.hardware.audio.service出现了异常，根据以下日志判断，问题可能和驱动层有关。

//19 : 21

310:02-18 19:21:33.316 675 1228 E audio_hw_primary: out_write: error -5, cannot write stream data: I/O error
312:02-18 19:21:33.316 675 1228 D audio_hw_primary: out_standby: enter: stream (0xeb804330) usecase(1: low-latency-playback)
...
1668:02-18 19:21:43.812 675 1228 E audio_hw_primary: out_write: error -5, cannot write stream data: I/O error
1669:02-18 19:21:43.812 675 1228 D audio_hw_primary: out_standby: enter: stream (0xeb804330) usecase(1: low-latency-playback)
...
1671:02-18 19:21:43.827 675 675 I libc : Requested dump for tid 675 (audio.service)
1688:02-18 19:21:44.045 6429 6429 I crash_dump32: performing dump of process 675 (target tid = 675)
1929:01-01 16:02:30.417 0 0 I libprocessgroup: Successfully killed process cgroup uid 1041 pid 675 in 6ms

//21:10

226:02-18 21:10:00.068 30308 30400 E audio_hw_primary: out_write: error -5, cannot write stream data: I/O error
227:02-18 21:10:00.068 30308 30400 D audio_hw_primary: out_standby: enter: stream (0xe94464c0) usecase(1: low-latency-playback)
...
820:02-18 21:10:10.564 30308 30400 E audio_hw_primary: out_write: error -5, cannot write stream data: I/O error
821:02-18 21:10:10.564 30308 30400 D audio_hw_primary: out_standby: enter: stream (0xe94464c0) usecase(1: low-latency-playback)
...
1130:02-18 21:10:16.836 30319 30329 I TimeCheck: requesting tombstone for pid: 30308
1131:02-18 21:10:16.837 30308 30308 I libc : Requested dump for tid 30308 (audio.service)
1138:02-18 21:10:16.890 3997 3997 I crash_dump32: performing dump of process 30308 (target tid = 30308)

在这部分日志输出后，就出现了audio相关服务died的信息。所以推测和驱动层相关。

■ 下一步解析计划

请Audio-BSP的同学帮忙分析一下，以上的错误日志出现的原因，谢谢

#6 - 2023-03-10 17:06 - CD TPM-王祥林

- Assignee changed from CD BSP-何伟 to CD BSP-唐金泽

#7 - 2023-03-10 17:07 - CD TPM-王祥林

- Category changed from AUDIO-FW to BSP

#8 - 2023-03-13 16:23 - CD BSP-唐金泽

- Status changed from ASSIGNED to NEED_INFO

- Assignee changed from CD BSP-唐金泽 to CD TEST-方永红

Hi 永红，

应该和底层没有外接音频时钟有关系。

可以连接上中控台架再试一下吗？

#9 - 2023-03-14 21:19 - CD BSP-唐金泽

- Status changed from NEED_INFO to RESOLVED

- Assignee changed from CD TEST-方永红 to CDTS_TEST 王成

- Resolution changed from -- to INVALID

- Root cause set to 音频问题根本原因是底层没有音频时钟。

需要台架提供外部时钟源，底层音频数据才正常输出，不会造成数据阻塞

3.11版本Monkey测试结果如图，无新增Bug

Bug #116438 在连接中控的设备上暂未复现，在未连接中控的设备上复现

#10 - 2023-03-15 14:02 - CDTS_TEST 王成

- Assignee changed from CDTS_TEST 王成 to CD TEST-方永红

#11 - 2023-03-17 15:01 - CD TEST-方永红

- Status changed from RESOLVED to VERIFIED

- Verified Version set to FlatBuild_HH_MCE_FSE.M.R.user.01.00.0083.C101(X101)

3.17

连接中控后测试

3个版本未复现

先关闭

#12 - 2023-03-17 15:01 - CD TEST-方永红

- Status changed from VERIFIED to CLOSED