

Figure - Bug #118072

【IOVDEV-28890】【IOVDEV-28945】【内部】【VC1】【0095】【台架】【EE环境】【副屏】【文件管理】

按名称搜索文件，界面无操作等待几分钟，出现约5-10分钟冻屏

2023-05-18 19:42 - 物联网测试组_CDTS 唐霞

Status:	CLOSED	Start date:	2023-05-23
Priority:	Urgent	Due date:	2023-05-26
Assignee:	物联网测试组_CDTS 唐霞	% Done:	100%
Category:	冻屏	Estimated time:	0.00 hour
Target version:			
Need_Info:	--	Found Version:	01.00.0095.C103
Resolution:	FIXED	Degrated:	--
Severity:	Critical	Verified Version:	
Reproducibility:	Occasionally	Fixed Version:	2023-05-28
Test Type:	User Experience	Root cause:	问题原因： freeze机制导致，进程在一段时间内
Description			
【环境信息】：EE环境			
【问题出现时间】：20230517 20:00,第23次开机			
https://ofs.human-horizons.com/#/download/index/%2BihslvJu4tk%3D			
【前提条件】：			
【操作步骤】：1.文件管理-右上角菜单栏-放大镜			
2、输入Ca，搜索，等待几分钟			
【实际结果】			
冻屏，输入框光标不再闪动，下滑上滑左右滑手势均无效，等待约5-10分钟后自动恢复			
【期望结果】			
正常搜索文件			
【备注】：卡顿界面见图			
【应用版本】：不涉及			
【硬件版本号】：/			
【副屏版本号】：01.00.0095.C103			
【中控版本号】：03.02.0080.C101.03_userdebug_2305121121			
Subtasks:			
Bug # 118199: 请确认一下显示驱动 DRM模块下面的报错是否异常			CLOSED

History

#1 - 2023-05-18 20:02 - CD TEST-方永红

- Subject changed from IOVDEV-28890 【内部】【VC1】【0095】【台架】【EE环境】【副屏】【文件管理】按名称搜索文件，界面无操作等待几分钟，出现约5-10分钟冻屏to 【IOVDEV-28890】【IOVDEV-28945】【内部】【VC1】【0095】【台架】【EE环境】【副屏】【文件管理】按名称搜索文件，界面无操作等待几分钟，出现约5-10分钟冻屏

#2 - 2023-05-18 21:45 - CD TPM-王祥林

1.问题描述发生是在20:00左右。现有日志中最晚的时间为19:55左右。请确认问题发生时间是否正确。如果不正确请提供正确时间点的日志。

2.从现有的日志发现，有报屏幕端的DTC错误，疑似屏幕端出现了异常。需要和屏厂进一步确认。

01-01 12:42:04.205 0 0 E DTC_Display: screen not ready(0), bl_sta(1), lvl(20)

01-01 12:42:10.133 0 0 E DTC_Display: screen not ready(0), bl_sta(1), lvl(20)

01-01 12:42:16.277 0 0 E DTC_Display: screen not ready(0), bl_sta(1), lvl(20)

01-01 12:42:22.517 0 0 E DTC_Display: screen not ready(0), bl_sta(1), lvl(20)

01-01 12:42:28.454 0 0 E DTC_Display: screen not ready(0), bl_sta(1), lvl(20)

01-01 12:42:34.385 0 0 E DTC_Display: screen not ready(0), bl_sta(1), lvl(20)

01-01 12:42:40.645 0 0 E DTC_Display: screen not ready(0), bl_sta(1), lvl(20)
01-01 12:42:46.901 0 0 E DTC_Display: screen not ready(0), bl_sta(1), lvl(20)
01-01 12:42:53.145 0 0 E DTC_Display: screen not ready(0), bl_sta(1), lvl(20)

#3 - 2023-05-19 15:17 - CDTS-TEST 周婷

等待客户确认DTC

#4 - 2023-05-19 15:18 - CDTS-TEST 周婷

- Severity changed from Major to Critical

#5 - 2023-05-19 15:19 - CDTS-TEST 周婷

- Category set to SYSTEM

- Status changed from New to NEED_INFO

- Assignee changed from CD FW 曹覃刚 to CD TEST-方永红

#6 - 2023-05-22 14:20 - CDTS_TEST 王成

- Status changed from NEED_INFO to ASSIGNED

- Assignee changed from CD TEST-方永红 to CD TPM-王祥林

客户回复：

1、测试回复，搜索操作后的等待时间没有一直观察屏幕，等几分钟过后再测试时发现冻屏，导完日志时间为20：10，推测问题发生时间约为20：00左右，请查看前后10分钟log是否出现异常，或搜索关键字Ca后的log。后续如发现类似现象再追加log。

导出的日志就是历史日志

2、高平平回复：

目前分析IIC显示有异常实际屏端是正常的，双方确认为何IIC收到的DTC与实际情况不符，另外此故障实际表现为：刚上电触控正常->使用过程中冻屏->自动恢复正常，请FSEM协助确认20230517 20:00是否这期间系统卡了？

#7 - 2023-05-22 17:27 - CD TPM-王祥林

- Assignee changed from CD TPM-王祥林 to CD SYSTEM-夏旭

宗惠

请帮忙看一下系统哪里卡顿了。

#8 - 2023-05-22 19:22 - CD SYSTEM-夏旭

1.从测试的说明来看场景看问题应该发生在05-17 19:44:03.537，此时com.android.documentsui APP被杀了

-->（文件管理-右上角菜单栏-放大镜）

./logcat/000023_manual_00018_230517_194740.log:656:05-17 19:47:45.270 1499 1619 I am_pss :

[9656,10020,com.android.documentsui,108872704,102871040,780288,183529472,0,2,10]

./logcat/000023_manual_00024_230517_194920.log:1010:05-17 19:49:34.073 1499 1619 I am_pss :

[9656,10020,com.android.documentsui,102824960,98639872,814080,175476736,0,2,9]

./logcat/000023_manual_00032_230517_194009.log:1517:05-17 19:40:21.771 2503 2503 V GameTypeUtils: judge isGame:com.android.documentsui

./logcat/000023_manual_00046_230517_194402.log:471:05-17 19:44:03.533 1499 1738 D ActivityManager: freezing 3669 com.android.documentsui

./logcat/000023_manual_00046_230517_194402.log:472:05-17 19:44:03.533 1499 1738 E ActivityManager: Unable to freeze binder for 3669

```
com.android.documentsui
./logcat/000023_manual_00046_230517_194402.log:475:05-17 19:44:03.535 1499 1738 D ActivityManager: froze 3669 com.android.documentsui
./logcat/000023_manual_00046_230517_194402.log:476:05-17 19:44:03.535 1499 1738 I am_freeze: [3669,com.android.documentsui]
./logcat/000023_manual_00046_230517_194402.log:477:05-17 19:44:03.535 1499 1738 E ActivityManager: Unable to freeze binder for 3669
com.android.documentsui
./logcat/000023_manual_00046_230517_194402.log:478:05-17 19:44:03.537 1499 1738 I ActivityManager: Killing 3669:com.android.documentsui/u0a20 (adj
940): Unable to freeze binder interface
./logcat/000023_manual_00046_230517_194402.log:479:05-17 19:44:03.537 1499 1738 I am_kill : [0,3669,com.android.documentsui,940,Unable to freeze
binder interface]
./logcat/000023_manual_00046_230517_194402.log:500:05-17 19:44:03.599 1499 29056 I WindowManager: WIN DEATH: Window{9b8c62c u0
com.android.documentsui/com.android.documentsui.files.FilesActivity}
```

#9 - 2023-05-23 14:32 - CD SYSTEM-夏旭

- File 内存.jpg added

1.可能是低内存导致com.android.documentsui被杀，还有com.baidu.appsearch（与文件查找有关）被杀，
bugreport-PassengerDisplay_CN-SKQ1.220201.001-2023-05-17-20-07-46.txt:55104:05-17 19:39:38.690 1000 1499 1738 I am_freeze:
[14750,com.baidu.appsearch:bdservice_v1]
bugreport-PassengerDisplay_CN-SKQ1.220201.001-2023-05-17-20-07-46.txt:55105:05-17 19:39:38.696 1000 1499 1738 I am_kill :
[0,14750,com.baidu.appsearch:bdservice_v1,925,Unable to freeze
binder interface]
bugreport-PassengerDisplay_CN-SKQ1.220201.001-2023-05-17-20-07-46.txt:55106:05-17 19:39:38.735 1000 1499 18470 I am_proc_died:
[0,14750,com.baidu.appsearch:bdservice_]

2.内存只有117M左右（bugreport-figure_0517200746.zip）

From /proc/meminfo

Memory type	Value (KB)	Explanation
MemTotal	7896236	The total amount of memory available for the android system. This does not count memory used by kernel code or the modem side.
MemFree	120594	This is the amount of yet completely not used memory.
Buffers	1520	Memory in buffer cache. This memory can be freed by the kernel when needed.
Cached	1547792	Memory in disk cache (memory copy of disk content in order to speed disk I/O). This memory can be freed by the kernel when needed.
SwapCached	61384	Memory that once was swapped out, is swapped back in but still also is in the swapfile (if memory is needed it doesn't need to be swapped out AGAIN because it is already in the swapfile. This saves I/O). Not used in android (since officially android doesn't use a swap partition).
Active	2976156	Memory that has been used more recently and usually not reclaimed unless absolutely necessary.
Inactive	1728728	Memory which has been less recently used. It is more eligible to be reclaimed for other purposes.
SwapTotal	4194396	Total amount of physical swap memory. Not used in android (since officially android doesn't use a swap partition).
SwapFree	1847348	Total amount of swap memory free. Not used in android (since officially android doesn't use a swap partition).
Dirty	73348	Memory which is waiting to get written back to the disk.
Writeback	0	Memory which is actively being written back to the disk.
AnonPages	3260416	Non-file backed pages mapped into userspace page tables.
Mapped	967760	Files which have been mmaped, such as libraries.
Shmem	30788	Used shared memory (usually used by IPC)
Slab	438776	In-kernel data structures cache.
SReclaimable	121492	Part of Slab, that might be reclaimed, such as caches.
SUnreclaim	317284	Part of Slab, that cannot be reclaimed on memory pressure.
PageTables	162464	Amount of memory dedicated to the lowest level of page tables.
VmallocTotal	26306144	Total size of vmalloc memory area.
VmallocUsed	155272	Amount of vmalloc area which is used.
VmallocChunk	0	Largest contiguous block of vmalloc area which is free.

Memory overview

Free
Can be freed

#10 - 2023-05-23 14:38 - CD SYSTEM-夏旭

- % Done changed from 0 to 10

#11 - 2023-05-23 17:32 - 物联网项目组-RD3_CDTs 周飞

导致该问题的原因是内存占用过高，com.android.documentsui被杀之前的日志暂未找到冻屏的log；下一步：将内存刷至剩余117M左右，再次验证。

#12 - 2023-05-23 21:13 - CDTs-TEST 周婷
- File 1684847488121.zip added

车架号VIN：HRYTTESTVINMGM400

解压密码：vin号后6位

#13 - 2023-05-23 21:14 - CDTs-TEST 周婷

物联网测试组_CDTs 唐霞 wrote:

【环境信息】：EE环境
【问题出现时间】：20230517 20:00,第23次开机

<https://ofs.human-horizons.com/#/download/index/%2BihsIvJu4tk%3D>
【前提条件】：
【操作步骤】：1.文件管理-右上角菜单栏-放大镜
2、输入Ca，搜索，等待几分钟
【实际结果】
冻屏，输入框光标不再闪动，下滑上滑左右滑手势均无效，等待约5-10分钟后自动恢复
【期望结果】
正常搜索文件
【备注】：卡顿界面见图
【应用版本】：不涉及
【硬件版本号】：/
【副屏版本号】：01.00.0095.C103
【中控版本号】：03.02.0080.C101.03_userdebug_2305121121

客户最新bug 描述更新：

【环境信息】EE环境
【问题出现时间】：20230518 9点58分（第145次开机）
【前提条件】：车机上电（KL30ON，KL15 ON）

1.副屏在使用应用宝下载多个应用

2.进入文件界面

【实际结果】

文件管理界面冻屏，不响应任何操作。

【期望结果】
副屏文件管理界面正常响应操作。

【备注】：

此问题出现一次，约15分钟后自行恢复。

车架号VIN：HRYTTESTVINMGM400

log地址：<https://ofs.human-horizons.com/#/download/index/sSm19%2FemHK8%3D>

视频地址：<https://ofs.human-horizons.com/#/download/index/c6%2B%2FTqCb474%3D>

【影响版本】：副屏：01.00.0095.c103

【硬件版本号】：/

【是否能恢复】：可恢复

#14 - 2023-05-23 21:46 - CDTs_TEST 王成

- Fixed Version set to 2023-05-26

#15 - 2023-05-23 21:46 - CD SYSTEM-夏旭

- File 19_42.log added

- File 19_43.log added

- File 19_44.log added

- File 19_45.log added

1. 新给的log 中过滤出17:42 到 17:45 的log 未发现明显异常
具体内容请查看相关文件

#16 - 2023-05-24 09:59 - CDTs-TEST 周婷

- Category changed from SYSTEM to 冻屏

讨论方向定位

#17 - 2023-05-24 17:11 - CD SYSTEM-夏旭

- File anr_2023-05-17-19-54-58-215 added

Hi 覃刚:

1. 从测试的测试场景看，正在打开【文件管理】按名称搜索文件,界面无操作等待几分钟

2. 从上面的测试的场景看，文件管理器的APK被杀了

./logcat/000023_manual_00018_230517_194740.log:656:05-17 19:47:45.270 1499 1619 I am_pss :

[9656,10020,com.android.documentsui,108872704,102871040,780288,183529472,0,2,10]

./logcat/000023_manual_00024_230517_194920.log:1010:05-17 19:49:34.073 1499 1619 I am_pss :

[9656,10020,com.android.documentsui,102824960,98639872,814080,175476736,0,2,9]

./logcat/000023_manual_00032_230517_194009.log:1517:05-17 19:40:21.771 2503 2503 V GameTypeUtils: judge isGame:com.android.documentsui

./logcat/000023_manual_00046_230517_194402.log:471:05-17 19:44:03.533 1499 1738 D ActivityManager: freezing 3669 com.android.documentsui

./logcat/000023_manual_00046_230517_194402.log:472:05-17 19:44:03.533 1499 1738 E ActivityManager: Unable to freeze binder for 3669

com.android.documentsui

3. 此时system_server 也anr 了，发生的时间是2023-05-17 19:54:58, 与上面描述的界面无操作等待几分钟相符合

具体请查看文件：anr_2023-05-17-19-54-58-215

且每多线程被thread 164线程组阻塞了

164线程 调用栈

"Binder:1499_1F" prio=5 tid=164 Blocked

```
| group="main" sCount=1 ucsCount=0 flags=1 obj=0x133c9ae0 self=0xb400007361cf6a90
| sysTid=32704 nice=-2 cgrp=default sched=0/0 handle=0x713ea3fcb0
| state=S schedstat=( 18927190680 14770598272 89474 ) utm=1298 stm=593 core=6 HZ=100
| stack=0x713e948000-0x713e94a000 stackSize=991KB
| held mutexes=
  at com.android.server.power.PowerManagerService.updateUidProcStateInternal(PowerManagerService.java:3751)
  - waiting to lock <0x0c0384ee> (a java.lang.Object) held by thread 36
  at com.android.server.power.PowerManagerService$LocalService.updateUidProcState(PowerManagerService.java:6118)
  at com.android.server.am.ActivityManagerService.enqueueUidChangeLocked(ActivityManagerService.java:14555)
  at com.android.server.am.OomAdjuster.updateUidsLSP(OomAdjuster.java:1450)
  at com.android.server.am.OomAdjuster.updateOomAdjInnerLSP(OomAdjuster.java:1050)
  at com.android.server.am.OomAdjuster.performUpdateOomAdjLSP(OomAdjuster.java:736)
  at com.android.server.am.OomAdjuster.updateOomAdjLSP(OomAdjuster.java:659)
  at com.android.server.am.OomAdjuster.updateOomAdjLocked(OomAdjuster.java:641)
  - locked <0x049322b3> (a com.android.server.am.ActivityManagerProcLock)
  at com.android.server.am.ActivityManagerService.updateOomAdjLocked(ActivityManagerService.java:14704)
  at com.android.server.am.ActiveServices.realStartServiceLocked(ActiveServices.java:4061)
  at com.android.server.am.ActiveServices.bringUpServiceLocked(ActiveServices.java:3946)
  at com.android.server.am.ActiveServices.bindServiceLocked(ActiveServices.java:2878)
  at com.android.server.am.ActivityManagerService.bindIsolatedService(ActivityManagerService.java:12134)
  - locked <0x0ab8b4c8> (a com.android.server.am.ActivityManagerService)
  at android.app.IActivityManager$Stub.onTransact(IActivityManager.java:2606)
  at com.android.server.am.ActivityManagerService.onTransact(ActivityManagerService.java:2528)
  at android.os.Binder.execTransactInternal(Binder.java:1179)
  at android.os.Binder.execTransact(Binder.java:1143)
```

#18 - 2023-05-24 17:43 - CD SYSTEM-夏旭

- Assignee changed from CD SYSTEM-夏旭 to CD FW 曹覃刚

#19 - 2023-05-25 09:55 - CD FW 曹覃刚

■ 我的分析

anr_2023-05-17-19-54-58-215

```
"main" prio=5 tid=1 Blocked | group="main" sCount=1 ucsCount=0 flags=1 obj=0x71866308 self=0xb400007361b9e7b0 | sysTid=1499 nice=-2 cgrp=default sched=0/0
handle=0x7531f2f4f8 | state=S schedstat=( 45270251427 41114985817 175996 ) utm=3285 stm=1241 core=6 HZ=100 | stack=0x7feeae7000-0x7feeae9000
stackSize=8188KB | held mutexes=
  at com.android.server.am.ActivityManagerService.getMemoryTrimLevel(ActivityManagerService.java:8688)
  - waiting to lock <0x0ab8b4c8> (a com.android.server.am.ActivityManagerService) held by thread 164
  at com.android.server.job.JobConcurrencyManager.refreshSystemStateLocked(JobConcurrencyManager.java:493)
  at com.android.server.job.JobConcurrencyManager.updateCounterConfigLocked(JobConcurrencyManager.java:503)
  at com.android.server.job.JobConcurrencyManager.assignJobsToContextsInternalLocked(JobConcurrencyManager.java:561)
  at com.android.server.job.JobConcurrencyManager.assignJobsToContextsLocked(JobConcurrencyManager.java:538)
  at com.android.server.job.JobSchedulerService.maybeRunPendingJobsLocked(JobSchedulerService.java:2487)
  at com.android.server.job.JobSchedulerService$JobHandler.handleMessage(JobSchedulerService.java:2071)
  - locked <0x09cf8bb1> (a java.lang.Object)
  at android.os.Handler.dispatchMessage(Handler.java:106)
  at android.os.Looper.loopOnce(Looper.java:201)
  at android.os.Looper.loop(Looper.java:288)
  at com.android.server.SystemServer.run(SystemServer.java:909)
  at com.android.server.SystemServer.main(SystemServer.java:616)
```

```

at java.lang.reflect.Method.invoke(Native method)
at com.android.internal.os.RuntimeInit$MethodAndArgsCaller.run(RuntimeInit.java:548)
at com.android.internal.os.ZygoteInit.main(ZygoteInit.java:987)

"Binder:1499_1F" prio=5 tid=164 Blocked | group="main" sCount=1 ucsCount=0 flags=1 obj=0x133c9ae0 self=0xb400007361cf6a90 | sysTid=32704 nice=-2 cgrp=default
sched=0/0 handle=0x713ea3fcb0 | state=S schedstat=( 18927190680 14770598272 89474 ) utm=1298 stm=593 core=6 HZ=100 | stack=0x713e948000-0x713e94a000
stackSize=991KB | held mutexes=
at com.android.server.power.PowerManagerService.updateUidProcStateInternal(PowerManagerService.java:3751)
- waiting to lock <0x0c0384ee> (a java.lang.Object) held by thread 36
at com.android.server.power.PowerManagerService$LocalService.updateUidProcState(PowerManagerService.java:6118)
at com.android.server.am.ActivityManagerService.enqueueUidChangeLocked(ActivityManagerService.java:14555)
at com.android.server.am.OomAdjuster.updateUidsLSP(OomAdjuster.java:1450)
at com.android.server.am.OomAdjuster.updateOomAdjInnerLSP(OomAdjuster.java:1050)
at com.android.server.am.OomAdjuster.performUpdateOomAdjLSP(OomAdjuster.java:736)
at com.android.server.am.OomAdjuster.updateOomAdjLSP(OomAdjuster.java:659)
at com.android.server.am.OomAdjuster.updateOomAdjLocked(OomAdjuster.java:641)
- locked <0x049322b3> (a com.android.server.am.ActivityManagerProcLock)
at com.android.server.am.ActivityManagerService.updateOomAdjLocked(ActivityManagerService.java:14704)
at com.android.server.am.ActiveServices.realStartServiceLocked(ActiveServices.java:4061)
at com.android.server.am.ActiveServices.bringUpServiceLocked(ActiveServices.java:3946)
at com.android.server.am.ActiveServices.bindServiceLocked(ActiveServices.java:2878)
at com.android.server.am.ActivityManagerService.bindIsolatedService(ActivityManagerService.java:12134)
- locked <0x0ab8b4c8> (a com.android.server.am.ActivityManagerService)
at android.app.IActivityManager$Stub.onTransact(IActivityManager.java:2606)
at com.android.server.am.ActivityManagerService.onTransact(ActivityManagerService.java:2528)
at android.os.Binder.execTransactInternal(Binder.java:1179)
at android.os.Binder.execTransact(Binder.java:1143)

"PowerManagerService" prio=5 tid=36 Native | group="main" sCount=1 ucsCount=0 flags=1 obj=0x133c17e0 self=0xb400007361bf3a80 | sysTid=1636 nice=-10
cgrp=default sched=0/0 handle=0x714528fcb0 | state=S schedstat=( 5155086887 9797201141 76153 ) utm=283 stm=231 core=1 HZ=100 |
stack=0x714518c000-0x714518e000 stackSize=1039KB | held mutexes=
native: #00 pc 00000000000a2808 /apex/com.android.runtime/lib64/bionic/libc.so (recvfrom+8)
native: #01 pc 00000000000640b0 /apex/com.android.runtime/lib64/bionic/libc.so (__system_property_set+760)
native: #02 pc 00000000000b0130 /system/lib64/libandroid_runtime.so (android::(anonymous namespace)::SystemProperties_set(_JNIEnv*, _jobject*, _jstring*,
_jstring*)+308)
at android.os.SystemProperties.(Native method)
at android.os.SystemProperties.set(SystemProperties.java:233)
at android.app.PropertyInvalidatedCache.invalidateCacheLocked(PropertyInvalidatedCache.java:676)
at android.app.PropertyInvalidatedCache.invalidateCache(PropertyInvalidatedCache.java:646)
- locked <0x08b9a822> (a java.lang.Object)
at android.os.PowerManager.invalidateInteractiveCaches(PowerManager.java:2926)
at com.android.server.power.PowerManagerService$Injector.invalidateInteractiveCaches(PowerManagerService.java:918)
at com.android.server.power.PowerManagerService.setGlobalWakefulnessLocked(PowerManagerService.java:2029)
at com.android.server.power.PowerManagerService.setWakefulnessLocked(PowerManagerService.java:1970)
at com.android.server.power.PowerManagerService.dreamDisplayGroupNoUpdateLocked(PowerManagerService.java:1930)
at com.android.server.power.PowerManagerService.updateWakefulnessLocked(PowerManagerService.java:2858)
at com.android.server.power.PowerManagerService.updatePowerStateLocked(PowerManagerService.java:2150)
at com.android.server.power.PowerManagerService.handleUserActivityTimeout(PowerManagerService.java:2764)
- locked <0x0c0384ee> (a java.lang.Object)
at com.android.server.power.PowerManagerService.access$3600(PowerManagerService.java:139)
at com.android.server.power.PowerManagerService$PowerManagerHandlerCallback.handleMessage(PowerManagerService.java:4811)
at android.os.Handler.dispatchMessage(Handler.java:102)
at android.os.Looper.loopOnce(Looper.java:201)

```

at android.os.Looper.loop(Looper.java:288)
at android.os.HandlerThread.run(HandlerThread.java:67)
at com.android.server.ServiceThread.run(ServiceThread.java:44)

tid=1 被 tid=164 block，tid=164 又被 tid=36 block
但是tid=36并没有等其他锁，应该就是tid=36这个线程，一直在处理它的业务逻辑，持有的锁一直没释放，block 164和1了

■ 下一步计划

导致该问题的原因是内存占用过高，com.android.documentsui被杀之前的日志暂未找到冻屏的log；下一步：将内存刷至剩余117M左右，再次验证。

- 1.之前system组的同学此结果还未验证(已飞书联系，待反馈验证结果)
- 2.从日志检查下36这个线程为什么这么耗时，一直没有完成，看堆栈是在设置系统属性，这个应该要不了多久才对
- 3.对于PropertyInvalidatedCache.java中invalidateCacheLocked方法，在androidT和S中实现有变化，检查这一变化的影响

#20 - 2023-05-25 09:57 - CD FW 曹覃刚
- Assignee changed from CD FW 曹覃刚 to CD FW 郑雷

-

#21 - 2023-05-25 09:57 - CD FW 曹覃刚
- Assignee changed from CD FW 郑雷 to CD FW 曹覃刚

#22 - 2023-05-25 13:42 - CD FW 曹覃刚
- Assignee changed from CD FW 曹覃刚 to CD FW 王武军

#23 - 2023-05-25 15:34 - CD FW王武军

1、目前进展

- 1) 按照之前的一些分析结论，从发生死锁的方法PropertyInvalidatedCache.invalidateCacheLocked出发，找到12和13的区别，差别patch的信息如下：
This change corrects a latent defect related by the new bypass()
method in PropertyInvalidatedCache. The defect is not current issue
because there are no clients using the bypass() method yet.

从patch的修改逻辑，没太看太多逻辑性的东西，不过后续会将该patch先调整到目前的版本中，作为一个处理点。

- 2) 找到了19：46-19：54的日志目前正在分析，这个时间段刚好是system_server 发生anr之前的时间，看是否能从这个时间段中，anr的一些其他信息。

2、下一步

- 1) 将13的patch搬过来打入，让测试测试
- 2) 结合之前的分析信息，进一步强化分析19：46-19：54这个时间的日志

#24 - 2023-05-26 18:21 - CD FW王武军

1、5月26日进展

- 1) 将PowerManager.invalidateInteractiveCaches在android13的更新patch已经做好，并编译了Jenkins版本
提交如下：<https://dev.thundercomm.com/gerrit/c/general/platform/frameworks/base/+202615>
- 2) 继续强化分析19：46-19：54之间的日志
分析的情况：

在这个时间段内容出现大量的如下日志信息：

```
05-17Freezer: check freeze binder ioctl
Some old kernels don't have the necessary binder ioctls for freezer
(BINDER_FREEZE & BINDER_GET_FROZEN_INFO). In such a case, disable
freezer with a warning log. 19:47:45.212 1000 1499 1738 D ActivityManager: freezing 24540 com.android.permissioncontroller
05-17 19:47:45.212 1000 1499 1738 E ActivityManager: Unable to freeze binder for 24540 com.android.permissioncontroller
01-01 12:44:54.141 root 0 0 I binder : 1499:1738 ioctl 400c620e 7138afd5d8 returned -22
01-01 12:44:54.144 root 0 0 I binder : 1499:1738 ioctl c00c620f 7138afd5b8 returned -22
05-17 19:47:45.214 1000 1499 1738 D ActivityManager: froze 24540 com.android.permissioncontroller
05-17 19:47:45.215 1000 1499 1738 E ActivityManager: Unable to freeze binder for 24540 com.android.permissioncontroller
05-17 19:47:45.224 1000 1499 1738 I ActivityManager: Killing 24540:com.android.permissioncontroller/u0a90 (adj 975): Unable to freeze binder interface
05-17 19:47:51.829 1000 1499 1738 D ActivityManager: freezing 5416 com.qualcomm.qti.qccauthmgr
05-17 19:47:51.831 1000 1499 1738 E ActivityManager: Unable to freeze binder for 5416 com.qualcomm.qti.qccauthmgr
01-01 12:45:00.778 root 0 0 I binder : 1499:1738 ioctl 400c620e 7138afd5d8 returned -22
05-17 19:47:51.833 1000 1499 1738 D ActivityManager: froze 5416 com.qualcomm.qti.qccauthmgr
01-01 12:45:00.782 root 0 0 I binder : 1499:1738 ioctl c00c620f 7138afd5b8 returned -22
05-17 19:47:51.833 1000 1499 1738 E ActivityManager: Unable to freeze binder for 5416 com.qualcomm.qti.qccauthmgr
05-17 19:47:51.837 1000 1499 1738 I ActivityManager: Killing 5416:com.qualcomm.qti.qccauthmgr/u0a83 (adj 975): Unable to freeze binder interface
01-01 12:45:09.020 root 0 0 I binder : 1499:1738 ioctl 400c620e 7138afd5d8 returned -22
```

可以看出是系统在freeze相关的应用，并做了kill进程的操作，从freeze这个操作进行check，发现缺少了freeze的相关patch，在内核比较低的版本上（4.19.157+），是不支持freeze的，不支持就会杀除进程。

谷歌针对freeze的patch信息如下：

```
Freezer: check freeze binder ioctl
Some old kernels don't have the necessary binder ioctls for freezer
(BINDER_FREEZE & BINDER_GET_FROZEN_INFO). In such a case, disable
freezer with a warning log.
```

后续会把这个patch添加进来。避免做freeze时将进程杀掉。

针对PowerManager.invalidateInteractiveCaches锁住的问题，就是SystemProperties.set方法耗时太久造成锁住的情况，大概率是受到freeze相关的操作应用，因为从就是SystemProperties的实现原理来看，property service收到请求之后再set进property workspace（共享内存方式），但是property service（init进程）是单线程工作，所以有时候它可能响应比较慢（比如它正在关闭一个子进程或者正在做其他事情），前面因为freeze不停的杀除进程正好满足这个条件。

2、下一步

1) 将freeze的patch打入

<https://dev.thundercomm.com/gerrit/c/general/platform/frameworks/base/+202849>

2) 在运行monkey测试时将游戏性能优化的策略停掉

<https://dev.thundercomm.com/gerrit/c/general/platform/frameworks/base/+202848>

<https://dev.thundercomm.com/gerrit/c/general/platform/vendor/thundercomm/apps/GameMode/+202856>

3) 将3个方面的修改做一个Jenkins编译，后续在这个版本上进行验证

#25 - 2023-05-27 14:01 - CD FW王武军

1、5月27日进展

将3个方面的修改编译了Jenkins

http://10.0.76.24:8080/job/VerifyBuild_for_IOT_6490/4021

在Jenkins版本验证了3个修改策略：

1)

<https://dev.thundercomm.com/gerrit/c/general/platform/frameworks/base/+202615>

在自动进入屏保和退出屏保时，PowerManager.invalidateIsInteractiveCaches的逻辑正常，相关日志：

```
05-24 17:09:24.451 1063 1223 I DreamManagerService: Entering dreamland.
05-24 17:09:24.452 1063 1223 I PowerManagerService: Dreaming...
05-24 17:09:29.667 1063 2514 I DreamManagerService: Gently waking up from dream.
05-24 17:09:29.671 1063 1177 I DreamManagerService: Performing gentle wake from dream.
```

2)
<https://dev.thundercomm.com/gerrit/c/general/platform/frameworks/base/+202848>
<https://dev.thundercomm.com/gerrit/c/general/platform/vendor/thundercomm/apps/GameMode/+202856>

针对monkey测试时，调整游戏模式时性能优化的策略
monkey测试运行，有如下日志：

```
E GameMode_ActivityMonitoringService: [Perf] is not support Performance or in monkey test.
```

未运行monkey时，启动应用的日志：
I thunderperf: Maybe need boostperf for current app!
I ThunderBoostPerfService: Disable downscaling

3)
<https://dev.thundercomm.com/gerrit/c/general/platform/frameworks/base/+202849>

未引入关于freeze的patch时，在启动的应用或者服务挂载到后台后，持续一段时间后，就会触发freeze，并杀除进程，日志信息如下：

```
1067 1195 W ActivityManager: Stopping service due to app idle: u0a52 -11m25s719ms com.kuaishou.nebula/com.kwai.chat.kwailink.service.NewKwa
1067 1705 D ActivityManager: freezing 9359 com.qualcomm.qti.qms.service.trustzoneaccess
1067 1705 E ActivityManager: Unable to freeze binder for 9359 com.qualcomm.qti.qms.service.trustzoneaccess
1067 1705 D ActivityManager: froze 9359 com.qualcomm.qti.qms.service.trustzoneaccess
1067 1705 I am_freeze: [9359,com.qualcomm.qti.qms.service.trustzoneaccess]
1067 1705 E ActivityManager: Unable to freeze binder for 9359 com.qualcomm.qti.qms.service.trustzoneaccess
1067 1705 I ActivityManager: Killing 9359:com.qualcomm.qti.qms.service.trustzoneaccess/u0a58 (adj 945): Unable to freeze binder interface
```

引入freeze的patch之后，打开同样的应用和服务，等待一段时间后，未发现类似的freeze日志输出，没有触发进程杀除的日志。

综述：3个修改策略在本地验证时运行正常，日志方面没有出现票中所出现的异常日志。

2、下一步

1) 确认修改是否需要合入。

#26 - 2023-05-27 18:12 - IoT scm

Gerrit Merge Information：

ID	Project	Branch	Uploader
202856	general/platform/vendor/thundercomm/apps/GameMode	Pre_figure_turbox-c2130c-la1.1-qssi12-dev	wujun.wang@thundersoft.com
AF:GameMode: prohibit game performanceCheck monkey test to prohibit game performance.TC-RID: 1201-0204803IssueID: TS-R-BUG-118072Change-Id: Ic6f4d493ba8a89e56e0af45ab89b6f03328beb17			

#27 - 2023-05-27 18:12 - IoT scm

Gerrit Merge Information：

ID	Project	Branch	Uploader
202849	general/platform/frameworks/base	Pre_figure_turbox-c2130c-la1.1-qssi12	wujun.wang@thundersoft.com

		-dev	
FW:SystemOptimization: check freeze binder ioctlFreezer: check freeze binder ioctlSome old kernels don't have the necessary binder ioctls for freezer(BINDER_FREEZE & BINDER_GET_FROZEN_INFO). In such a case, disablefreezer with a warning log.TC-RID: 1201-0205101IssueID: TS-R-BUG-118072Change-Id: I553201e04c7b92e7492b83845da8f35f3ea1eda4			

#28 - 2023-05-27 18:13 - IoT scm

Gerrit Merge Information :

ID	Project	Branch	Uploader
202615	general/platform/frameworks/base	Pre_figure_turbox-c2130c-la1.1-qssi12 -dev	wujun.wang@thundersoft.com
FW:SystemOptimization: PropertyInvalidatedCacheThis change corrects a latent defect related by the new bypass()method in PropertyInvalidatedCache. The defect is not current issuebecause there are no clients using the bypass() method yet.TC-RID: 1201-0205101IssueID: TS-R-BUG-118072Change-Id: Iaecf55b8afd4db7e0fe9ca22b9577ebc220c0526			

#29 - 2023-05-27 18:13 - IoT scm

Gerrit Merge Information :

ID	Project	Branch	Uploader
202848	general/platform/frameworks/base	Pre_figure_turbox-c2130c-la1.1-qssi12 -dev	wujun.wang@thundersoft.com
AF:GameMode: prohibit game performanceCheck monkey test to prohibit game performance.TC-RID: 1201-0204803IssueID: TS-R-BUG-118072Change-Id: I11bc923245dfaf7ced6644179523ee12d3da2237			

#30 - 2023-05-27 18:19 - CD FW王武军

- Assignee changed from CD FW王武军 to 物联网测试组_CDTS 唐霞

- Resolution changed from -- to FIXED

- Fixed Version changed from 2023-05-26 to 2023-05-28

- Root cause set to 问题原因 :

freeze机制导致，进程在一段时间内被杀除，占用系统性能，导致SystemProperties.set执行逻辑时被延时，卡主了其他系统进程。

问题处理：

引入google的patch处理取消freeze机制，并引入了android13的新patch，同时优化了针对游戏模式的性能优化策略。

#31 - 2023-05-31 09:49 - CDTS-TEST 周婷

- Assignee changed from 物联网测试组_CDTS 唐霞 to CD FW王武军

请正确流转状态

#32 - 2023-05-31 10:30 - CD FW王武军
- Status changed from ASSIGNED to RESOLVED
- Assignee changed from CD FW王武军 to 物联网测试组_CDTS 唐霞

【】当前状态
针对票中已经发现的问题做出了修改，本地验证修改是生效的。
【】下一步
请测试在db版本上针对票中的情况进行测试和验证。

#33 - 2023-06-05 17:44 - 物联网测试组_CDTS 唐霞

FlatBuild_HH_MCE_FSE.M.R.user.01.00.0107.C104版本验证20次未复现

#34 - 2023-06-06 17:27 - SZTS_TEST 邹涛

在01.00.0108.C104版本验证20次未复现

#35 - 2023-06-13 19:53 - SZTS_TEST 邹涛

FlatBuild_HH_MCE_FSE.M.R.user.01.00.0110.C104版本验证20次未复现

#36 - 2023-06-14 16:37 - 物联网测试组_CDTS 唐霞

user.01.00.0110.C104（6/13）版本验证20次未复现

#37 - 2023-06-15 14:50 - SZTS_TEST 邹涛

在FlatBuild_HH_MCE_FSE.M.R.user.01.00.0110.C105版本（6.15）复测20次未复现

#38 - 2023-06-16 13:52 - SZTS_TEST 邹涛

FlatBuild_HH_MCE_FSE.M.D.user.01.00.C105.202306180036复测20次，未复现

#39 - 2023-06-19 15:02 - SZTS_TEST 邹涛

FlatBuild_HH_MCE_FSE.M.D.user.01.00.C105.202306180036 复测20次未复现

#40 - 2023-06-20 13:49 - SZTS_TEST 邹涛

FlatBuild_HH_MCE_FSE.M.D.user.01.00.C105.202306200207 版本复测20次未复现

#41 - 2023-06-21 14:32 - SZTS_TEST 邹涛

FlatBuild_HH_MCE_FSE.M.R.user.01.00.0112.C105验证20次未复现

#42 - 2023-06-25 13:08 - SZTS_TEST 邹涛

FlatBuild_HH_MCE_FSE.M.D.user.01.00.C105.202306250045 版本验证20次未复现

#43 - 2023-06-26 18:23 - 物联网测试组_CDTS 唐霞

- Status changed from RESOLVED to VERIFIED

113release版本验证20未复现

连续验证多个版本均未复现，关闭问题单

#44 - 2023-06-26 18:23 - 物联网测试组_CDTS 唐霞

- Status changed from VERIFIED to CLOSED

Files			
内存.jpg	161 KB	2023-05-23	CD SYSTEM-夏旭
1684847488121.zip	10.9 MB	2023-05-23	CDTS-TEST 周婷
19_42.log	277 KB	2023-05-23	CD SYSTEM-夏旭
19_43.log	755 KB	2023-05-23	CD SYSTEM-夏旭
19_44.log	880 KB	2023-05-23	CD SYSTEM-夏旭
19_45.log	316 KB	2023-05-23	CD SYSTEM-夏旭
anr_2023-05-17-19-54-58-215	822 KB	2023-05-24	CD SYSTEM-夏旭