

Figure - Bug #118056
IOVDEV-28916 【内部】 【VC1】 【0095】 【台架】 【EE环境】 【副屏】 monkey测试第二天查看副屏黑屏不可操作

2023-05-18 17:27 - CDTS-TEST 周婷

Status:	CLOSED	Start date:	2023-05-23
Priority:	Urgent	Due date:	2023-05-26
Assignee:	CD TEST-方永红	% Done:	100%
Category:	黑屏	Estimated time:	0.00 hour
Target version:		Found Version:	01.00.0095.c103
Need_Info:	--	Degrated:	--
Resolution:	--	Verified Version:	
Severity:	Critical	Fixed Version:	2023-05-26
Reproducibility:	Frequently	Root cause:	
Test Type:	Free Test		
Description			
【环境信息】 EE环境 【问题出现时间】：20230518 8点28分 【前提条件】：车机上电（KL30ON，KL15 ON，已连接中控和功放，可正常输出声音） 1.5月17日第144次开机晚上8点20左右开始运行monkey测试 2.5月18日早上8点28分发现副屏黑屏（中控和仪表是亮屏的） 【实际结果】 点击副屏没有亮屏（屏幕没有背光），电脑与副屏控制器进行adb连接发现是正常连接，可以读取副屏数据（此时副屏黑屏无法停止收集实时log）。之后只是断开副屏屏幕的电源再上电，副屏屏幕显示黑屏有背光，不响应任何操作。8点42分拉取adb的log到电脑，约8点46分手动让副屏控制器KL15 OFF再立即ON，副屏重启亮屏，实时日志还在收集，停止收集将实时log和历史log以及monkey log 拉取到电脑。 【期望结果】 副屏正常运行monkey测试，无黑屏或重启等严重异常问题。 【备注】： 车架号VIN：HRYTTESTVINMGM400 副屏第144次开机运行monkey，由于黑屏无法停止收集log，手动重启副屏第145次开机截取log到电脑。 log地址：实时log：https://ofs.human-horizons.com/#/download/index/6RdBnSrNe5g%3D 历史输出log：https://ofs.human-horizons.com/#/download/index/MdMvFX1Vmac%3D monkey的log已添加到附件中 视频地址：https://ofs.human-horizons.com/#/download/index/IjQ%2FwoLLrvU%3D 【影响版本】：副屏：01.00.0095.c103 【硬件版本号】：/ 【是否能恢复】：			
Subtasks:			
Bug # 118189: SurfaceFlinger 异常			CLOSED

History

#1 - 2023-05-18 19:13 - CD SYSTEM-夏旭

- Status changed from New to ASSIGNED

#2 - 2023-05-18 19:13 - CD SYSTEM-夏旭

- % Done changed from 0 to 20

#3 - 2023-05-19 10:41 - CD SYSTEM-夏旭

- File a.log added

1. 发生时间在8点28，如果要排查5月17日晚上8点20到18日8点28之间的log，这个log太多了，需要时间

2.8点48分有看到MCU导致的系统关机

```
000144_manual_00021_230518_084709.log:1294:05-18 08:48:27.986 9138 9272 D ProtectUartService: received uart notiy mpu to shutdown
000144_manual_00021_230518_084709.log:1305:05-18 08:48:28.007 8523 8931 V ShutdownCheckPoints: Binder shutdown checkpoint recorded with pid=9138
000144_manual_00021_230518_084709.log:1306:05-18 08:48:28.008 8523 8540 V ShutdownCheckPoints: System server shutdown checkpoint recorded
/000144_manual_00021_230518_084709.log:1307:05-18 08:48:28.008 8523 8540 D ShutdownThread: Notifying thread to start shutdown longPressBehavior=5
000144_manual_00021_230518_084709.log:1309:05-18 08:48:28.009 8523 8540 D ShutdownThread: Attempting to use SysUI shutdown UI
000144_manual_00021_230518_084709.log:1310:05-18 08:48:28.010 8523 8540 D ShutdownThread: SysUI handling shutdown UI
000144_manual_00021_230518_084709.log:1317:05-18 08:48:28.016 8523 12366 I ShutdownThread: Sending shutdown broadcast...
000144_manual_00021_230518_084709.log:1318:05-18 08:48:28.022 8523 8523 W SyncManager: Writing sync state before shutdown...
```

#4 - 2023-05-19 19:42 - CD SYSTEM-夏旭

- Status changed from ASSIGNED to NEED_INFO

- 5月17日第144次开机晚上8点20左右开始运行monkey测试，
在提供的log里面没有monkey的log输出，初步怀疑没有抓到现场的log
正常如果monkey会有下面，类似的输出
05-17 05:01:00.125 30029 30029 I Monkey : Sleeping for 500 milliseconds
- 测试复现一下

#5 - 2023-05-23 10:40 - CD SYSTEM-夏旭

- File 000144_persist_00675_230518_072259.log added

#6 - 2023-05-23 10:54 - CD SYSTEM-夏旭

- File 000144_persist_00675_230518_072259.log added

- File anr_2023-05-18-07-01-09-881 added

#7 - 2023-05-23 11:06 - CD SYSTEM-夏旭

- File 000144_persist_00675_230518_072259.log added

- File system_audio.7z added

- File vendor_audio.7z added

- 从历史输出log中查看，问题发生时间:20230518 8点28分
monkey 在05-18 07:22:59.992时，系统已经发行了异常

```
000144_persist_00675_230518_072259.log:2651:05-18 07:22:59.992 17163 17163 W Monkey : ** Error: A RuntimeException occurred:
000144_persist_00675_230518_072259.log:2652:05-18 07:22:59.992 17163 17163 W Monkey : java.lang.RuntimeException: android.os.DeadSystemException
000144_persist_00675_230518_072259.log:2653:05-18 07:22:59.992 17163 17163 W Monkey : at
android.hardware.input.InputManager.injectInputEvent(InputManager.java:1093)
000144_persist_00675_230518_072259.log:2654:05-18 07:22:59.992 17163 17163 W Monkey : at
com.android.commands.monkey.MonkeyMotionEvent.injectEvent(MonkeyMotionEvent.java:188)
000144_persist_00675_230518_072259.log:2655:05-18 07:22:59.992 17163 17163 W Monkey : at
com.android.commands.monkey.Monkey.runMonkeyCycles(Monkey.java:1217)
000144_persist_00675_230518_072259.log:2656:05-18 07:22:59.992 17163 17163 W Monkey : at
com.android.commands.monkey.Monkey.run(Monkey.java:708)
000144_persist_00675_230518_072259.log:2657:05-18 07:22:59.992 17163 17163 W Monkey : at
com.android.commands.monkey.Monkey.main(Monkey.java:568)
000144_persist_00675_230518_072259.log:2658:05-18 07:22:59.992 17163 17163 W Monkey : at com.android.internal.os.RuntimeInit.nativeFinishInit(Native
Method)
000144_persist_00675_230518_072259.log:2659:05-18 07:22:59.992 17163 17163 W Monkey : at
com.android.internal.os.RuntimeInit.main(RuntimeInit.java:355)
```

2. 查看000144_persist_00675_230518_072259.log发现SurfaceFlinger出错

```
05-18 07:22:59.509 1003 1646 E SurfaceFlinger: layer (Surface(name=Task=71068)/@0x6d7ceca - animation-leash of app_transition#33) :: parent
(DefaultTaskDisplayArea#0).
05-18 07:22:59.509 1003 1646 E SurfaceFlinger: layer (Surface(name=Task=76384)/@0x4c2216a - animation-leash of app_transition#5) :: parent
(DefaultTaskDisplayArea#0).
```

在同一份同时抓取的log中kernel（但是时间戳不对）的log中发现，SurfaceFlinger会通过binder分配内存，但是失败，有可能是此原因导致的SurfaceFlinger异常的原因

```
01-02 04:35:32.581 0 0 I binder_alloc: 1003: binder_alloc_buf size 1212696 failed, no address space
说明此时内存严重不足
```

3./vendor/bin/hw/android.hardware.audio.service 程序crash

请查看system_audio.7z文件

4./system/bin/audioserver 程序crash

请查看 vendor_audio.7z文件

5.请将此问题建立子票，分别跟踪，并分发给相关owner进行处理

#8 - 2023-05-23 21:39 - CDTS_Test 吴诗雨

- Fixed Version set to 2023-05-26

#9 - 2023-05-23 22:06 - CDTS-TEST 周婷

- Status changed from NEED_INFO to ASSIGNED

#10 - 2023-05-24 10:15 - CDTS-TEST 周婷

- Category changed from BSP to 黑屏

1. 初步分析，应该是内存不足

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05-18 07:22:59.509 1003 1646 E SurfaceFlinger: layer (Surface(name=Task=71068)/@0x6d7ceca - animation-leash of app_transition#33) :: parent (DefaultTaskDisplayArea#0).

05-18 07:22:59.509 1003 1646 E SurfaceFlinger: layer (Surface(name=Task=76384)/@0x4c2216a - animation-leash of app_transition#5) :: parent (DefaultTaskDisplayArea#0).

在同一份同时抓取的log中kernel（但是时间戳不对）的log中发现，SurfaceFlinger会通过binder分配内存，但是失败，有可能是此原因导致的SurfaceFlinger异常的原因

01-02 04:35:32.581 0 0 I binder_alloc: 1003（这里打印的PID与SurfaceFlinger相同）: binder_alloc_buf size 1212696 failed, no address space
说明此时内存严重不足

2. createSurface error Out of memory

05-18 07:22:59.209 1535 16789 E SurfaceComposerClient: SurfaceComposerClient::createSurface error Out of memory

05-18 07:22:59.210 1535 16789 E WindowManager: Unhandled exception in Window Manager

05-18 07:22:59.210 1535 16789 E WindowManager: android.view.Surface\$OutOfResourcesException

05-18 07:22:59.210 1535 16789 E WindowManager: at android.view.SurfaceControl.nativeCreate(Native Method)

05-18 07:22:59.210 1535 16789 E WindowManager: at android.view.SurfaceControl.<init>(SurfaceControl.java:1435)

05-18 07:22:59.210 1535 16789 E WindowManager: at android.view.SurfaceControl.<init>(SurfaceControl.java:87)

05-18 07:22:59.210 1535 16789 E WindowManager: at android.view.SurfaceControl\$Builder.build(SurfaceControl.java:1108)

05-18 07:22:59.210 1535 16789 E WindowManager: at com.android.server.wm.SurfaceAnimator.createAnimationLeash(SurfaceAnimator.java:424)

05-18 07:22:59.210 1535 16789 E WindowManager: at com.android.server.wm.SurfaceAnimator.startAnimation(SurfaceAnimator.java:173)

05-18 07:22:59.210 1535 16789 E WindowManager: at com.android.server.wm.WindowContainer.startAnimation(WindowContainer.java:2526)

05-18 07:22:59.210 1535 16789 E WindowManager: at com.android.server.wm.WindowContainer.startAnimation(WindowContainer.java:2533)

05-18 07:22:59.210 1535 16789 E WindowManager: at com.android.server.wm.WindowContainer.startAnimation(WindowContainer.java:2539)

05-18 07:22:59.210 1535 16789 E WindowManager: at com.android.server.wm.InsetsSourceProvider.updateControlForTarget(InsetsSourceProvider.java:339)

05-18 07:22:59.210 1535 16789 E WindowManager: at com.android.server.wm.InsetsStateController.onControlChanged(InsetsStateController.java:467)

05-18 07:22:59.210 1535 16789 E WindowManager: at com.android.server.wm.InsetsStateController.onBarControlTargetChanged(InsetsStateController.java:438)

05-18 07:22:59.210 1535 16789 E WindowManager: at com.android.server.wm.InsetsPolicy.updateBarControlTarget(InsetsPolicy.java:146)

05-18 07:22:59.210 1535 16789 E WindowManager: at com.android.server.wm.DisplayPolicy.updateSystemUiVisibilityLw(DisplayPolicy.java:2658)

05-18 07:22:59.210 1535 16789 E WindowManager: at com.android.server.wm.DisplayPolicy.finishPostLayoutPolicyLw(DisplayPolicy.java:2047)

05-18 07:22:59.210 1535 16789 E WindowManager: at com.android.server.wm.DisplayContent.applySurfaceChangesTransaction(DisplayContent.java:4318)

05-18 07:22:59.210 1535 16789 E WindowManager: at

com.android.server.wm.RootWindowContainer.applySurfaceChangesTransaction(RootWindowContainer.java:1076)

05-18 07:22:59.210 1535 16789 E WindowManager: at

com.android.server.wm.RootWindowContainer.performSurfacePlacementNoTrace(RootWindowContainer.java:852)

05-18 07:22:59.210 1535 16789 E WindowManager: at com.android.server.wm.RootWindowContainer.performSurfacePlacement(RootWindowContainer.java:805)

05-18 07:22:59.210 1535 16789 E WindowManager: at com.android.server.wm.WindowSurfacePlacer.performSurfacePlacementLoop(WindowSurfacePlacer.java:177)

05-18 07:22:59.210 1535 16789 E WindowManager: at com.android.server.wm.WindowSurfacePlacer.performSurfacePlacement(WindowSurfacePlacer.java:126)

05-18 07:22:59.210 1535 16789 E WindowManager: at com.android.server.wm.WindowSurfacePlacer.performSurfacePlacement(WindowSurfacePlacer.java:115)

05-18 07:22:59.210 1535 16789 E WindowManager: at com.android.server.wm.WindowSurfacePlacer.continueLayout(WindowSurfacePlacer.java:97)

05-18 07:22:59.210 1535 16789 E WindowManager: at

com.android.server.wm.ActivityTaskManagerService.continueWindowLayout(ActivityTaskManagerService.java:4299)

05-18 07:22:59.210 1535 16789 E WindowManager: at com.android.server.wm.ActivityRecord.activityPaused(ActivityRecord.java:5598)
05-18 07:22:59.210 1535 16789 E WindowManager: at com.android.server.wm.ActivityClientController.activityPaused(ActivityClientController.java:201)
05-18 07:22:59.210 1535 16789 E WindowManager: at android.app.IActivityClientController\$Stub.onTransact(IActivityClientController.java:571)
05-18 07:22:59.210 1535 16789 E WindowManager: at com.android.server.wm.ActivityClientController.onTransact(ActivityClientController.java:134)
05-18 07:22:59.210 1535 16789 E WindowManager: at android.os.Binder.execTransactInternal(Binder.java:1184)
05-18 07:22:59.210 1535 16789 E WindowManager: at android.os.Binder.execTransact(Binder.java:1143)

3. 这里是第一次 创建surface出现out of memory

000144_persist_00655_230518_072210.log:1515:05-18 07:22:18.535 1535 1616 I sysui_multi_action: [757,803,799>window_time_0,802,1]
000144_persist_00655_230518_072210.log:1526:05-18 07:22:18.547 1535 2019 W FreeFormWindowHelper: Current Display FreeFormTask is null
000144_persist_00655_230518_072210.log:1599:05-18 07:22:18.558 1535 10080 I MediaFocusControl: abandonAudioFocus() from uid/pid 10066/16497 clientId=[android.media.AudioManager@75dea9acom.android.gallery3d.app.MoviePlayer\\$6@d93ffcb](#)
000144_persist_00657_230518_072218.log:1540:05-18 07:22:18.580 1535 2027 E SurfaceComposerClient: SurfaceComposerClient::createSurface error Out of memory
000144_persist_00657_230518_072218.log:1541:05-18 07:22:18.580 1535 2027 E WindowManager: Window Session Crash
000144_persist_00657_230518_072218.log:1542:05-18 07:22:18.580 1535 2027 E WindowManager: android.view.Surface\$OutOfResourcesException

4. 创建surface出现out of memory

000144_persist_00660_230518_072222.log:1773:05-18 07:22:22.165 1535 1626 I DropBoxManagerService: add tag=system_server_wtf isTagEnabled=true flags=0x2
000144_persist_00660_230518_072222.log:1775:05-18 07:22:22.232 1535 1613 I sysui_multi_action:
[319,197,322,0,325,74251,757,761,758,9,759,2,806,com.android.settings,871,com.android.settings.Settings,904,com.android.shell,905,0,1320,21,1321,5]
000144_persist_00661_230518_072222.log:1572:05-18 07:22:22.298 1535 2019 E SurfaceComposerClient: SurfaceComposerClient::createSurface error Out of memory
000144_persist_00661_230518_072222.log:1573:05-18 07:22:22.299 1535 2019 E WindowManager: Unhandled exception in Window Manager
000144_persist_00661_230518_072222.log:1574:05-18 07:22:22.299 1535 2019 E WindowManager: android.view.Surface\$OutOfResourcesException

6. 创建surface出现out of memory

000144_persist_00672_230518_072256.log:291:05-18 07:22:59.167 1535 16789 I wm_resume_activity: [0,218662391,77662,com.android.settings/.Settings]
000144_persist_00672_230518_072256.log:1869:05-18 07:22:59.209 1535 16789 E SurfaceComposerClient: SurfaceComposerClient::createSurface error Out of memory
000144_persist_00672_230518_072256.log:1870:05-18 07:22:59.210 1535 16789 E WindowManager: Unhandled exception in Window Manager
000144_persist_00672_230518_072256.log:1871:05-18 07:22:59.210 1535 16789 E WindowManager: android.view.Surface\$OutOfResourcesException

7. 第一次出现binder died

000144_persist_00674_230518_072259.log:740:05-18 07:22:59.432 1535 12721 D DisplayAreaOrganizerController: Organizer died before sending onDisplayAreaVanished
000144_persist_00674_230518_072259.log:741:05-18 07:22:59.432 1535 26441 D ConnectivityService: ConnectivityService NetworkRequestInfo
binderDied(uid/pid:10079/1864, android.os.BinderProxy@cfe9b2f)
000144_persist_00674_230518_072259.log:742:05-18 07:22:59.432 1535 1535 W MediaSessionService: Dead ActiveSessionsListener in pushSessionsChanged, removing
000144_persist_00674_230518_072259.log:743:05-18 07:22:59.432 1535 1535 W MediaSessionService: android.os.DeathObjectException

8. 出现system_server_wtf

./000144_persist_00675_230518_072259.log:1934:05-18 07:22:59.795 1535 1626 I am_wtf : [0,1535,system_server,-1,WindowManager,Invalid
Surface(name=Task=77674)/@0xa724da0, mNativeObject is null. Have you called release() already?]
./000144_persist_00675_230518_072259.log:1935:05-18 07:22:59.795 1535 1626 I DropBoxManagerService: add tag=system_server_wtf isTagEnabled=true flags=0x2
./000144_persist_00675_230518_072259.log:1970:05-18 07:22:59.796 1535 1626 I am_wtf : [0,1535,system_server,-1,WindowManager,Invalid
Surface(name=Task=77674)/@0xa724da0, mNativeObject is null. Have you called release() already?]
./000144_persist_00675_230518_072259.log:1971:05-18 07:22:59.796 1535 1626 I DropBoxManagerService: add tag=system_server_wtf isTagEnabled=true flags=0x2
./000144_persist_00675_230518_072259.log:2006:05-18 07:22:59.797 1535 1626 I am_wtf : [0,1535,system_server,-1,WindowManager,Invalid
Surface(name=Task=77674)/@0xa724da0, mNativeObject is null. Have you called release() already?]
./000144_persist_00675_230518_072259.log:2007:05-18 07:22:59.797 1535 1626 I DropBoxManagerService: add tag=system_server_wtf isTagEnabled=true flags=0x2
./000144_persist_00675_230518_072259.log:2042:05-18 07:22:59.798 1535 1626 I am_wtf : [0,1535,system_server,-1,WindowManager,Invalid

```
Surface(name=Task=77674)/@0xa724da0, mNativeObject is null. Have you called release() already?]
./000144_persist_00675_230518_072259.log:2077:05-18 07:22:59.799 1535 1626 I am_wtf : [0,1535,system_server,-1,WindowManager,Invalid
Surface(name=Task=77674)/@0xa724da0, mNativeObject is null. Have you called release() already?]
./000144_persist_00675_230518_072259.log:2112:05-18 07:22:59.800 1535 1626 I am_wtf : [0,1535,system_server,-1,WindowManager,Invalid
Surface(name=Task=77674)/@0xa724da0, mNativeObject is null. Have you called release() already?]
./000144_persist_00675_230518_072259.log:2148:05-18 07:22:59.801 1535 1617 I am_crash: [1535,0,system_server,-1,java.lang.NullPointerException,Invalid
Surface(name=Task=77674)/@0xa724da0, mNativeObject is null. Have you called release() already?,SurfaceControl.java,1594]
```

9. 出现system crash, system_server被kill

```
./000144_persist_00675_230518_072259.log:2154:05-18 07:22:59.802 1535 1617 I DropBoxManagerService: add tag=system_server_crash isTagEnabled=true flags=0x2
000144_persist_00675_230518_072259.log:2401:05-18 07:22:59.815 1535 1617 I Process : Sending signal. PID: 1535 SIG: 9
000144_persist_00675_230518_072259.log:2411:05-18 07:22:59.874 681 681 I Zygote : Process 1535 exited due to signal 9 (Killed)
./000144_persist_00675_230518_072259.log:2564:05-18 07:22:59.929 682 682 E Zygote : Zygote failed to write to system_server FD: Connection refused
```

#13 - 2023-05-25 21:38 - CD SYSTEM-夏旭

1.从上午复现的日志看，初步定位到内存泄露(tlog)的进程，正在debug中...

#14 - 2023-05-26 17:03 - CD SYSTEM-夏旭

1.正在抓取数据，进行分析

```
:loop
set /a count+=1
for /f "tokens=1-3 delims=: " %%a in ('time /t') do (
    set "hour=%%a"
    set "minute=%%b"
    set "second=%%c"
)
set "timestamp=%date% %hour%:%minute%:%second%"
echo =====Loop count: %count%, Timestamp:
%timestamp%=====
echo =====Loop count: %count%, Timestamp:
%timestamp%===== >> meminfo.txt
echo =====dumpsys
meminfo===== >> meminfo.txt
adb shell dumpsys meminfo >> meminfo.txt
echo =====dumpsys meminfo
tlog===== >> meminfo.txt
adb shell dumpsys meminfo tlog >> meminfo.txt
echo
=====proc_meminfo=====
===== >> meminfo.txt
adb shell cat /proc/meminfo >> meminfo.txt
echo
=====procrank=====
===== >> meminfo.txt
adb shell procrank >> meminfo.txt
timeout /t 15 /nobreak >nul
goto loop
```

#15 - 2023-05-31 18:58 - CD SYSTEM-胡兵

当前状态：
已定位到具体代码段问题，容器存储对象未释放导致，修改代码逻辑后，本地压力测试24小时(3s生成一个256k日志文件)，Tlog内存几乎没有变化，同样压测手法，修改前内存有明显增长。

下一步计划：
优化文件写入逻辑，本周合入优化方案

#16 - 2023-06-05 11:21 - CD SYSTEM-胡兵

- Status changed from ASSIGNED to RESOLVED

- Assignee changed from CD SYSTEM-夏旭 to CDTS_TEST 王成

正式方案已合入，请测试同学使用DB跑monkey验证

bug：tlog内存泄露导致副屏重启
提交：<https://dev.thundercomm.com/gerriit/c/general/platform/vendor/thundercomm/apps/LogSystem/+203640>
验证：其他的功能正常
user版本的VB：安装apk，monkey跑了5个小时，tlog的RSS内存一直是10M以内，tlog进程号没有改变也没有被杀掉
userdebug版本的VB：修改文件大小为10K，tlog的RSS内存一直是10M以内，tlog进程号没有改变也没有被杀掉

#17 - 2023-06-19 16:56 - CD TEST-方永红

6.19
五台设备未复现黑屏

#18 - 2023-06-25 17:45 - CDTS_TEST 王成

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

持续跟踪验证，客户在110版本暂未复现

#19 - 2023-07-10 16:10 - CD TEST-方永红

- Status changed from RESOLVED to VERIFIED

7.10
客户验证通过，同步关闭

#20 - 2023-07-10 16:10 - CD TEST-方永红

- Status changed from VERIFIED to CLOSED

Files			
a.log	776 KB	2023-05-19	CD SYSTEM-夏旭
000144_persist_00675_230518_072259.log	246 KB	2023-05-23	CD SYSTEM-夏旭

000144_persist_00675_230518_072259.log	246 KB	2023-05-23	CD SYSTEM-夏旭
anr_2023-05-18-07-01-09-881	1.77 MB	2023-05-23	CD SYSTEM-夏旭
000144_persist_00675_230518_072259.log	246 KB	2023-05-23	CD SYSTEM-夏旭
system_audio.7z	40.7 KB	2023-05-23	CD SYSTEM-夏旭
vendor_audio.7z	21.8 KB	2023-05-23	CD SYSTEM-夏旭