

Figure - Bug #116849

测试 Test-IT # 110867 (New): V1.0测试功能汇总

测试 Test-IT # 110895 (New): AF-V1.0功能测试-桌面

【AF】【EVT】【桌面】在测试过程中，屏幕短时间卡住，弹窗提示系统桌面未响应，直接重启（偶现）

2023-03-09 18:00 - CDTs_Test 吴诗雨

Status:	CLOSED	Start date:	2023-03-09
Priority:	Normal	Due date:	2023-04-10
Assignee:	CDTS_Test 吴诗雨	% Done:	100%
Category:	CD-APP	Estimated time:	0.00 hour
Target version:	VC1_FSE_0090_20230411	Found Version:	FlatBuild_HH_MCE_FSE.M.R.user.01.00.0078
Need_Info:	--	Degrated:	No
Resolution:	FIXED	Verified Version:	
Severity:	Minor	Fixed Version:	2023-04-11
Reproducibility:	Rarely	Root cause:	编码问题
Test Type:	ST		
Description			
【前提条件】			
1、设备已开机			
【测试步骤】			
1、正常使用过程中			
【预期结果】			
1、正常使用			
【实际结果】			
1、屏幕短时间卡住，弹窗提示系统桌面未响应，直接重启			
Related issues:			
Related to Figure - Bug # 116826: 【AF】【EVT】【系统手势】【偶现一次】副屏...		CLOSED	2023-03-09 2023-04-10

History

#1 - 2023-03-21 15:05 - CD APP-王营

- Status changed from New to ASSIGNED

- % Done changed from 0 to 20

Current conclusion

问题已定位，修改中

My analysis

从Log中分析可知Launcher发生ANR，具体trace文件如下：

```
"main" prio=5 tid=1 Native | group="main" sCount=1 ucsCount=0 flags=1 obj=0x71b79fc8 self=0xb400006e67253010 | sysTid=2497 nice=0 cgrp=default sched=0/0
handle=0x7030f654f8 | state=D schedstat=( 12942284435 5638338404 41722 ) utm=977 stm=316 core=4 HZ=100 | stack=0x7fc59a8000-0x7fc59aa000 stackSize=8188KB |
held mutexes=
native: #00 pc 00000000000a1dac /apex/com.android.runtime/lib64/bionic/libc.so (fsync+12)
native: #01 pc 000000000000475c /apex/com.android.art/lib64/libopenjdkjvm.so (JVM_Sync+24)
native: #02 pc 000000000001f428 /apex/com.android.art/lib64/libopenjdk.so (FileDescriptor_sync+44)
at java.io.FileDescriptor.sync(Native method)
at android.os.FileUtils.sync(FileUtils.java:256)
at android.app.SharedPreferencesImpl.writeToFile(SharedPreferencesImpl.java:807)
```

```
at android.app.SharedPreferencesImpl.access$900(SharedPreferencesImpl.java:59)
at android.app.SharedPreferencesImpl$2.run(SharedPreferencesImpl.java:672)
- locked <0x0cdf8c6e> (a java.lang.Object)
at android.app.SharedPreferencesImpl.enqueueDiskWrite(SharedPreferencesImpl.java:691)
at android.app.SharedPreferencesImpl.access$100(SharedPreferencesImpl.java:59)
at android.app.SharedPreferencesImpl$EditorImpl.commit(SharedPreferencesImpl.java:604)
at com.android.launcher3.util.SpUtils.putString(SpUtils.java:40)
at com.android.launcher3.util.MCUUtil.saveLastActivity(MCUUtil.java:57)
at com.android.launcher3.util.ActivityChangeReceiver.onReceive(ActivityChangeReceiver.java:15)
at android.app.LoadedApk$ReceiverDispatcher$Args.lambda$getRunnable$0$LoadedApk$ReceiverDispatcher$Args(LoadedApk.java:1679)
at android.app.LoadedApk$ReceiverDispatcher$Args$$ExternalSyntheticLambda0.run(unavailable:-1)
at android.os.Handler.handleCallback(Handler.java:938)
at android.os.Handler.dispatchMessage(Handler.java:99)
at android.os.Looper.loopOnce(Looper.java:201)
at android.os.Looper.loop(Looper.java:288)
at android.app.ActivityThread.main(ActivityThread.java:7880)
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:1009)
```

- 1、从以上log中可知，SharedPreferences在写文件时候editor使用了commit方法，此方法为同步方法，同时代码中使用了Runtime.getRuntime().exec("sync");强制写入磁盘，此方案是早期MCU断电逻辑中为了保证Activity存写，此处频繁同步写入数据出现ANR问题。
- 2、当前过压保护方案不需要同步保存Activity，所以取消强制写入磁盘，同时SharedPreferences保存数据使用apply异步保存方式。

■ Next action

- 1、SharedPreferences保存数据使用apply方法。
- 2、取消强制写入磁盘数据方法。

#2 - 2023-03-22 14:35 - CD APP-王营

- Due date set to 2023-03-22
- % Done changed from 20 to 50
- Resolution changed from -- to FIXED
- Fixed Version set to 2023-03-23
- Root cause set to 编码问题

■ Current conclusion

代码已提交，待验证

■ Submit URL

<https://dev.thundercomm.com/gerrit/c/general/platform/packages/apps/Launcher3/+188893>

#3 - 2023-03-23 14:44 - CDTs_TEST 王成

- Target version set to VC1_FSE_0090_20230411

#4 - 2023-03-27 10:29 - CD APP-王营

- Due date changed from 2023-03-22 to 2023-03-31

无响应ANR问题已经解决提交，目前存在上滑手势失效的问题，正在分析中。

#5 - 2023-04-03 11:46 - CD APP-王营
- Due date changed from 2023-03-31 to 2023-04-07

#6 - 2023-04-10 10:38 - CD APP-王营
- Due date changed from 2023-04-07 to 2023-04-10

当前的进度：
1、分析手势异常原因。

下一步AI：
1、梳理手势inputConsumer的构建机制和生效时机。

#7 - 2023-04-10 20:30 - CD APP-王营

■ Current conclusion
ANR问题已解决，优先入库，过压保护触发后拉起Activity，目前系统自带应用手势正常，测试中微信和QQ会出现手势失效的问题，后面新起一个bug来跟进手势问题。

■ Submit URL
<https://dev.thundercomm.com/gerrit/c/general/platform/packages/apps/Launcher3/+188893>

#8 - 2023-04-10 20:37 - IoT scm

Gerrit Merge Information：

ID	Project	Branch	Uploader
188893	general/platform/packages/apps/Launcher3	Pre_figure_turbox-c2130c-la1.1-qssi12-dev	ying.wang@thundersoft.com
AF: Launcher: Fix Launcher ANR1.Fix Launcher ANR when save last activity.TC-RID: 1201-0205301IssueID: TS-R-BUG-116849Change-Id: Ie98ea2393e353fc74c3b31b24ac2ac0e814b6855			

#9 - 2023-04-10 20:38 - CD APP-王营
- Status changed from ASSIGNED to RESOLVED
- Assignee changed from CD APP-王营 to CDTS_Test 吴诗雨
- % Done changed from 50 to 100
- Degrated changed from -- to No
- Fixed Version changed from 2023-03-23 to 2023-04-11

#10 - 2023-04-14 14:44 - CDTS_Test 吴诗雨

验证版本：0414DB
未复现以上情况

#11 - 2023-04-17 15:53 - CDTS_Test 吴诗雨

验证版本：0417DB

验证情况：未复现

#12 - 2023-04-18 10:00 - CDTS_Test 吴诗雨
- Status changed from RESOLVED to VERIFIED

#13 - 2023-04-18 10:00 - CDTS_Test 吴诗雨
- Status changed from VERIFIED to CLOSED