

Figure - Bug #111349

测试 Test-IT # 110867 (New): V1.0测试功能汇总

测试 Test-IT # 110868 (New): BSP-BVT测试-上/下电测试

【BSP】【EVT】【power】【低概率】执行adb reboot，低概率起不来

2022-08-18 16:16 - SZTS_TEST 邹涛

Status:	CLOSED	Start date:	2022-09-15
Priority:	High	Due date:	
Assignee:	SZTS_TEST 邹涛	% Done:	100%
Category:	SYSTEM	Estimated time:	0.00 hour
Target version:	VX1_MCE_FSE_V3.0_20221030	Found Version:	0.0.0.20220818_alpha_004
Need_Info:	--	Degraded:	--
Resolution:	--	Verified Version:	cdiot /Pre_figure/VerifyBuild/Pre_figure_turbox-c2130
Severity:	Critical	Fixed Version:	2022-10-19
Reproducibility:	Rarely	Root cause:	https://dev.thundercomm.com/gerrit/c/general/kernel/r
Test Type:	Bring Up Test		
Description			
前置条件： 1、DUT各模块功能正常且处于开机状态			
操作步骤： 1、cmd内执行adb reboot命令，重启过程中查看设备状态			
实际结果： 1、板子低概率（1/12）起不来			
预期结果：			
Subtasks:			
Bug # 111975: 【BSP】【EVT】【power】【低概率】执行adb reboot，概率出现drm 空指针			CLOSED
Related issues:			
Related to Figure - Bug # 111881: 【BSP】【EVT】【power】【概率:1/...		CLOSED	2022-09-09
Related to Figure - Bug # 111703: 【BSP】【EVT】【power】【概率:1/...		CLOSED	2022-09-02
Related to Figure - Bug # 111971: 【VC1】【BSP】【EVT】【power】【...		CLOSED	2022-09-15 2023-03-10

History

#1 - 2022-08-31 12:54 - CD SYSTEM-赵正军

- Assignee changed from SZ 系统-张丽果 to CD SYSTEM-赵正军

- % Done changed from 0 to 50

从现有log中的发现，drm 图像显示逻辑存在空指针，同时本地也压测(循环重启50次出现一次)复现，已取ramdump，待进一步分析

Unable to handle kernel NULL pointer dereference at virtual address 0000000000000030

[14:42:38][32.178041] OF: graph: no port node found in /soc/qcom,dsi-display-primary

[14:42:38][32.185230] [drm] [msm-dsi-warn]: [hx82101+hx8692 video mode dsi truly panel] fallback to default te-pin-select

[14:42:38][32.195660] NPU_INFO: npu_reboot_handler: 760 Device is rebooting with code 1

[14:42:38][32.197156] msm_drm ae00000.qcom,mdss_mdp: Linked as a consumer to regulator.31

[14:42:38][32.210942] Unable to handle kernel NULL pointer dereference at virtual address 0000000000000030

[14:42:38][32.211016] register_client_adhoc:find path.src 1 dest 590

[14:42:38][32.212332] register_client_adhoc:Client handle 16 mdss_reg

[14:42:38][32.220007] Mem abort info:

```
[14:42:38][ 32.220014] ESR = 0x96000006
[14:42:38][ 32.220018] Exception class = DABT (current EL), IL = 32 bits
[14:42:38][ 32.220021] SET = 0, FnV = 0
[14:42:38][ 32.225816] register_client_adhoc:find path.src 22 dest 512
[14:42:38][ 32.227070] register_client_adhoc:find path.src 23 dest 512
[14:42:38][ 32.231438] EA = 0, S1PTW = 0
[14:42:38][ 32.235499] register_client_adhoc:Client handle 66 mdss_sde
[14:42:38][ 32.235925] [drm:sde_dbg_init:4676] evtlog_status: enable:11, panic:1, dump:2
[14:42:38][ 32.237484] Data abort info:
[14:42:38][ 32.237487] ISV = 0, ISS = 0x00000006
[14:42:38][ 32.237490] CM = 0, WnR = 0
[14:42:38][ 32.237495] user pgtable: 4k pages, 39-bit VAs, pgdp = fffffdebf1d000
[14:42:38][ 32.237498] [0000000000000030] pgd=00000000ffc2e003, pud=00000000ffc2e003, pmd=0000000000000000
[14:42:38][ 32.243668] msm_drm ae00000.qcom,mdss_mdp: bound soc:qcom,wb-display@0 (ops sde_wb_comp_ops)
[14:42:38][ 32.246933] Internal error: Oops: 96000006 [#1] PREEMPT SMP
[14:42:42][ 32.253011] msm-dsi-display soc:qcom,dsi-display-primary: Linked as a consumer to regulator.25
[14:42:42][ 32.258227] Modules linked in:
[14:42:42][ 32.258229] Process init (pid: 1, stack limit = 0xfffff8008058000)
[14:42:42][ 32.258231] CPU: 4 PID: 1 Comm: init Tainted: G S W 4.19.157+ #1
[14:42:42][ 32.258232] Hardware name: Qualcomm Technologies, Inc. kona MTP-RmPM8150b (DT)
[14:42:42][ 32.258233] pstate: 60400005 (nZCv daif +PAN -UAO)
[14:42:42][ 32.258239] pc : drm_atomic_state_alloc+0x18/0x80
[14:42:42][ 32.258245] Ir : msm_lastclose+0x28c/0x458
[14:42:42][ 32.262005] [drm:dsi_display_bind] [msm-dsi-info]: Successfully bind display panel 'qcom,mdss_dsi_panel_hx82101_hx8692_truly_v2_video'
```

#2 - 2022-09-01 19:54 - CD SYSTEM-赵正军

- 1,加入调试代码后单刷boot/dtbo分区,压力测试会概率出现镜像校验错误系统无法启动,和security同事沟通,建议不要刷单个镜像测稳定性问题,起jenkins编译VB验证.
- 2,在本地完整编译版本.替换DB版本的xbl文件,这种情况能稳定出现reboot不能启动的问题,日志也一致.
- 3,同步高通case,解析dump文件,之前本地解析过一次,无法解析,但是版本没有问题,需要确认symbol文件是否打包正确.

#3 - 2022-09-02 00:43 - SZTS_TEST 邹涛

- File Serial-COM9_20220901230244.rar added

0.0.0.20220901_alpha_private_userdebug 版本验证adb reboot 23次后,板子无法起来,插拔DC后恢复;串口log已经上传

#4 - 2022-09-02 11:03 - SZTS_TEST 邹涛

- File Port_COM10.rar added

#5 - 2022-09-05 22:35 - CD SYSTEM-赵正军

- File 2022-09-05-22-23-29.png added

目前高通定位是PCIE引起的问题,提供了一个修改方案如下,

2022-09-05-22-23-29.png

经验证,问题还是存在

#6 - 2022-09-07 19:15 - CD SYSTEM-赵正军

通过"fastboot oem select-display-panel none"的方式关闭连续显示
定位drm相关代码修改,移除提交#14061#140603的修改,版本同样存在问题
目前考虑从出问题之前的报错日志分析定位,从现有日志看分区选择也存在问题,日志如下
[35.197102] init: [libfs_mgr]Error updating for slotselect
[35.202770] init: [libfs_mgr]ReadFstabFromFile(): failed to load fstab from : '/fstab.qcom'

#7 - 2022-09-07 22:13 - CD SYSTEM-赵正军

目前可以确定的是drivers/gpu/drm/drm_atomic.c drm_atomic_state_alloc函数里面
结构体指针config和其成员funcs存在NULL的情况.目前通过如下修改来处理指针为NULL的情况

```
diff --git a/drivers/gpu/drm/drm_atomic.c b/drivers/gpu/drm/drm_atomic.c
index cb3cc5a2d2ef..07332b7fda41 100644
--- a/drivers/gpu/drm/drm_atomic.c
+++ b/drivers/gpu/drm/drm_atomic.c
@@ -112,6 +112,10 @@ struct drm_atomic_state *
drm_atomic_state_alloc(struct drm_device *dev)
{
    struct drm_mode_config *config = &dev->mode_config;
+   if (!config || !config->funcs) {
+       printk("drmtest %d %s\n", __LINE__, __func__);
+       return NULL;
+   }

    if (!config->funcs->atomic_state_alloc) {
        struct drm_atomic_state *state;
```

目前在起VB验证

#8 - 2022-09-08 15:04 - CD SYSTEM-赵正军

- Status changed from New to RESOLVED
- % Done changed from 50 to 100
- Verified Version set to /Pre_figure/VerifyBuild/Pre_figure_turbox-c2130c-la1.1-qssi12-dev/20220907/202209072155-1168

使用VB版本测试 4 个小时,循环重启两百多次,没有空指针报错,提交如下

<https://dev.thundercomm.com/gerrit/c/147583>

#9 - 2022-09-08 15:07 - CD SYSTEM-赵正军

- Assignee changed from CD SYSTEM-赵正军 to SZTS_TEST 邹涛
- Verified Version changed from /Pre_figure/VerifyBuild/Pre_figure_turbox-c2130c-la1.1-qssi12-dev/20220907/202209072155-1168 to cdiot
/Pre_figure/VerifyBuild/Pre_figure_turbox-c2130c-la1.1-qssi12-dev/20220907/202209072155-1168

还请测试同事复测确认,谢谢

#10 - 2022-09-13 12:08 - CD SYSTEM-赵正军

- File 572119275.jpg added

目前用如下版本测试345次,没有出现问题,需要继续使用其他板子进一步确认

ftp://dvbuild.thundercomm@10.0.76.28/home/scm/VerifyBuild/Pre_figure_turbox-c2130c-la1.1-qssi12-dev/20220909/202209092232-1206

测试log见附件minicom.zip

#11 - 2022-09-13 12:12 - CD SYSTEM-赵正军

- File minicom.zip added

#12 - 2022-09-14 11:50 - CD TPM-申艳艳

- Category set to SYSTEM

#13 - 2022-09-15 14:20 - SZTS_TEST 邹涛

ftp://dvbuild.thundercomm@10.0.76.28/home/scm/VerifyBuild/Pre_figure_turbox-c2130c-la1.1-qssi12-dev/20220909/202209092232-1206

使用修改gpio的硬件+上面的软件版本,执行重启脚本2H后设备进入900e

#14 - 2022-09-15 14:25 - CD SYSTEM-赵正军

从测试飞书群里发的log Serial-COM119_20220914175848.log来看,没有出现问题一开始drm空指针以及slotselect相关的报错,出现的是以下报错,

[19:27:44][80.889803] kernel BUG at drivers/net/wireless/cnss2/pci.c:2433!

[19:27:36][72.681214] cnss: fatal: Timeout waiting for FW ready indication

[19:27:44][80.876331] cnss: Timeout (4000ms) waiting for calibration to complete

[19:27:44][80.885980] cnss: ASSERT at line 2433

[19:27:44][80.889803] kernel BUG at drivers/net/wireless/cnss2/pci.c:2433!

[19:27:44][80.896066] Internal error: Oops - BUG: 0 [#1] PREEMPT SMP

[19:27:44][80.901703] Modules linked in: wlan(O+) machine_dlk(O) wcd938x_slave_dlk(O) wcd938x_dlk(O) wcd9xxx_dlk(O) mbhc_dlk(O) tx_macro_dlk(O) rx_macro_dlk(O) va_macro_dlk(O) wsa_macro_dlk(O) swr_ctrl_dlk(O) bolero_cdc_dlk(O) wsa881x_dlk(O) wcd_core_dlk(O) stub_dlk(O) hdmi_dlk(O) swr_dlk(O) pinctrl_lpi_dlk(O) pinctrl_wcd_dlk(O) usf_dlk(O) native_dlk(O) platform_dlk(O) q6_dlk(O) adsp_loader_dlk(O) apr_dlk(O) snd_event_dlk(O) q6_notifier_dlk(O) q6_pdr_dlk(O) msm_11ad_proxy

[19:27:44][80.946055] Process modprobe (pid: 1229, stack limit = 0xfffff8017768000)

[19:27:44][80.953111] CPU: 6 PID: 1229 Comm: modprobe Tainted: GS W O L 4.19.157+ #1

[19:27:44][80.961059] Hardware name: Qualcomm Technologies, Inc. kona MTP-RmPM8150b (DT)

[19:27:44][80.968469] pstate: 60400005 (nZCv daif +PAN -UAO)

[19:27:44][80.973394] pc : cnss_wlan_register_driver+0x2f0/0x2f8

[19:27:44][80.978670] lr : cnss_wlan_register_driver+0x2f0/0x2f8

[19:27:44][80.983945] sp : fffff801776b9e0

我们的修改并没有改wireless相关的代码,还请测试同事另起bug给到LC团队

#15 - 2022-09-26 15:22 - CD SYSTEM-胡兵

- Assignee changed from SZTS_TEST 邹涛 to CD SYSTEM-赵正军

- Target version set to 619

最新VB200次复测中已触发问题,目前规避方案生效,设备重启。相关问题已有单: <https://share.thundersoft.com/redmine/issues/111881>

提交：

<https://dev.thundercomm.com/gerrit/c/general/platform/system/core/+/150066>

问题日志：

```
[14:51:00][ 23.029657] Run /init as init process
[14:51:00][ 23.038763] init: init first stage started!
[14:51:00][ 23.043355] init: Unable to open /lib/modules, skipping module loading.
[14:51:00][ 23.051362] init: [libfs_mgr]dt_fstab: Skip disabled entry for partition vendor
[14:51:00][ 23.058968] init: [libfs_mgr]ReadFstabFromDt(): failed to read fstab from dt
[14:51:00][ 23.066637] init: [libfs_mgr]dt_fstab: Skip disabled entry for partition vendor
[14:51:00][ 23.074445] init: [libfs_mgr]GetFstabPath()fstab_path:/odm/etc/fstab.default
[14:51:00][ 23.081808] init: [libfs_mgr]GetFstabPath()fstab_path:/vendor/etc/fstab.default
[14:51:00][ 23.089378] init: [libfs_mgr]GetFstabPath()fstab_path:/fstab.default
[14:51:00][ 23.096201] init: [libfs_mgr]GetFstabPath()fstab_path:/odm/etc/fstab.qcom
[14:51:00][ 23.103771] init: [libfs_mgr]GetFstabPath()fstab_path:/vendor/etc/fstab.qcom

[14:51:00][ 23.123476] OF: graph: no port node found in /soc/qcom,dsi-display-primary
[14:51:00][ 23.130639] [drm] [msm-dsi-warn]: [hx82101+hx8692 video mode dsi truly panel] fallback to default te-pin-select
[14:51:00][ 23.141065] NPU_INFO: npu_reboot_handler: 760 Device is rebooting with code 1
[14:51:00][ 23.142548] msm_drm ae00000.qcom,mdss_mdpc: Linked as a consumer to regulator.31
[14:51:00][ 23.156369] drmttest 116 drm_atomic_state_alloc
[14:51:00][ 23.156492] register_client_adhoc:find path.src 1 dest 590
[14:51:00][ 23.157769] register_client_adhoc:Client handle 16 mdss_reg
[14:51:00][ 23.160997] last close failed: -12
[14:51:00][ 23.177464] register_client_adhoc:find path.src 22 dest 512
[14:51:00][ 23.178714] register_client_adhoc:find path.src 23 dest 512
[14:51:00][ 23.185645] register_client_adhoc:Client handle 66 mdss_sde
[14:51:00][ 23.192179] [drm:sde_dbg_init:4676] evtlog_status: enable:11, panic:1, dump:2
[14:51:00][ 23.200303] qcom_rpmh DRV:apps_rsc TCS Busy, retrying RPMH message send: addr=0x41b08
[14:51:00][ 23.205788] msm_drm ae00000.qcom,mdss_mdpc: bound soc:qcom,wb-display@0 (ops sde_wb_comp_ops)
[14:51:00][ 23.217353] reboot: Restarting system with command "
```

#16 - 2022-09-26 15:53 - 物联网项目组-RD3_CDTS 周飞

- Target version changed from 619 to VC1_FSE_B sample_20221015

#17 - 2022-09-27 17:29 - SZTS_TEST 邹涛

ftp://dvbuild.thundercomm@10.0.76.28/home/scm/VerifyBuild/Pre_figure_turbox-c2130c-la1.1-qssi12-dev/20220924/202209242316-1438 使用上面VB版本reboot 487次均正常，未复现到板子不能启动情况

#18 - 2022-09-27 17:31 - SZTS_TEST 邹涛

- File Serial-COM119_20220927111935.rar added

#19 - 2022-09-27 18:04 - CD SYSTEM-赵正军

- Assignee changed from CD SYSTEM-赵正军 to SZTS_TEST 邹涛

还请测试同事随机跟踪几个DB版本测试 看是否有问题

#20 - 2022-10-08 16:48 - CDTS_TEST 王成

- Target version changed from VC1_FSE_B sample_20221015 to VX1_MCE_FSE_V2.0_update_20221012

10.12号交付版本与10.15号的是同一个版本

#21 - 2022-10-09 11:21 - CD SYSTEM-赵正军

Hi,邹涛

还请用最新的DB做一次压力测试，同时保存串口log。我们需要从log确认是否还有一开始报出的问题

谢谢！

#22 - 2022-10-12 16:43 - CDTS_TEST 刘勇

【未复现的串口LOG】使用 1011的UD版本，压测1000次的串口log链接：<https://thundersoft.feishu.cn/file/boxcnj5Oko6DqubzgWqFmNFQnve>

#23 - 2022-10-12 17:17 - SZTS_TEST 邹涛

- File 重启285次未见异常_串口日志.rar added

使用release分支1011号userdebug版本reboot验证285次，板子未发生异常

#24 - 2022-10-13 10:54 - CDTS_TEST 刘勇

【未复现】使用20221012的日构建UD版本压测655次未复现,串口LOG地址：<https://thundersoft.feishu.cn/file/boxcnGCvCR7kUs20EIg4Po97qhd>

#25 - 2022-10-13 18:27 - CDTS_TEST 王成

- Target version changed from VX1_MCE_FSE_V2.0_update_20221012 to VX1_MCE_FSE_V3.0_20221030

持续跟踪，以当前上千次的测试结果来分析，为极低概率

#26 - 2022-10-17 11:30 - SZTS_TEST 邹涛

- File Serial-COM78_20221015000000.rar added

EVT2板子使用1013号userdebug版本，验证reboot 2400多次后出现板子卡在900e

dump文件路径：https://thundersoft.feishu.cn/file/boxcnKx4yzOYPN8ioaAjRY5FYVb?from=from_copylink

#27 - 2022-10-19 14:34 - CD SYSTEM-赵正军

2560000 [22:04:08][78.828557] cnss: ASSERT at line 2433

2560001 [22:04:08][78.832364] kernel BUG at drivers/net/wireless/cnss2/pci.c:2433!

2560002 [22:04:08][78.838610] Internal error: Oops - BUG: 0 [#1] PREEMPT SMP

2560003 [22:04:08][78.844241] Modules linked in: wlan(O+) tsnv(O) machine_dkkm(O) wcd938x_slave_dkkm(O) wcd938x_dkkm(O) wcd9xxx_dkkm(O) mbhc_dkkm(O) tx_macro_dkkm(O) rx_macro_dkkm(O) va_macro_dkkm(O) wsa_macr o_dkkm(O) swr_ctrl_dkkm(O) bolero_cdc_dkkm(O) wsa881x_dkkm(O) wcd_core_dkkm(O) stub_dkkm(O) hdmi_dkkm(O) swr_dkkm(O) pinctrl_lpi_dkkm(O) pinctrl_wcd_dkkm(O) usf_dkkm(O) native_dkkm(O) platform_dkkm(O) q6 _dkkm(O) adsp_loader_dkkm(O) apr_dkkm(O) snd_event_dkkm(O) q6_notifier_dkkm(O) q6_pdr_dkkm(O) msm_11ad_proxy

2560004 [22:04:08][78.889300] Process modprobe (pid: 1206, stack limit = 0xfffff8016f50000)

2560005 [22:04:08][78.896360] CPU: 7 PID: 1206 Comm: modprobe Tainted: G S W O L 4.19.157+ #1

2560006 [22:04:08][78.904309] Hardware name: Qualcomm Technologies, Inc. kona MTP-RmPM8150b. VX1(MCE) EVT2 (DT)

2560007 [22:04:08][78.913052] pstate: 60400005 (nZCv daif +PAN -UAO)

2560008 [22:04:08][78.917984] pc : cnss_wlan_register_driver+0x2f0/0x2f8

2560009 [22:04:08][78.923255] lr : cnss_wlan_register_driver+0x2f0/0x2f8

Bug同#111971

#28 - 2022-10-19 15:06 - CD SYSTEM-赵正军

- Fixed Version set to 2022-10-19

- Root cause set to <https://dev.thundercomm.com/gerrit/c/general/kernel/msm-4.19/+147583>

drm_atomic_state_alloc函数中未对空指针做判断处理

Hi, 邹涛

reboot起不来的原因有多种, 目前为止跟踪多个版本, 从多次提供的log来看, 此票一开始引起进900E的原因没在出现
现申请关闭此bug, 其他出现900E的情况, 还请另起bug跟踪, 不然bug重复, 一个bug用了两个票管理

谢谢

#29 - 2022-10-21 10:44 - SZTS_TEST 邹涛

- Status changed from RESOLVED to VERIFIED

如研发所述, 先关闭该bug

#30 - 2022-10-21 10:44 - SZTS_TEST 邹涛

- Status changed from VERIFIED to CLOSED

#31 - 2022-12-22 20:29 - CD FW-王伟

Gerrit Merge Information :

ID	Project	Branch	Uploader
146958	general/turbox/tools/build_script/plat orm	Pre_figure_turbox-c2130c-la1.1-vendo r-dev	zhaozj0108@thundersoft.com
<p>SYSTEM:Add ELF file to meta package for ramdump analysis1. Add ELF file to meta packageTC-RID: 1200-0800301IssueID: TS-R-BUG-111349Change-Id: Icb1cf21989f56098cdf417200a284de7aab4f3b</p>			

#32 - 2022-12-22 20:29 - CD FW-王伟

Gerrit Merge Information :

--	--	--	--

ID	Project	Branch	Uploader
147583	general/kernel/msm-4.19	Pre_figure_turbox-c2130 c-la1.1-vendor-dev	zhaozj0108@thundersoft. com
<p>SYSTEM:Prevent function parameters from passing in null pointers1. if (!config</p> <p>!config->funcs) return</p> <p>NULL;TC-RID:</p> <p>1200-0800301IssueID:</p> <p>TS-R-BUG-111349Chan</p> <p>ge-Id:</p> <p>Ib2b53b7538dc0ae1b38f</p> <p>51a93300ae966acbbde9</p>			

Files

File Name	Size	Date	Uploader
Serial-COM119_20220818144212_reboot起不来.log	202 KB	2022-08-18	SZTS_TEST 邹涛
Serial-COM9_20220901230244.rar	655 KB	2022-09-01	SZTS_TEST 邹涛
Port_COM10.rar	40.9 MB	2022-09-02	SZTS_TEST 邹涛
2022-09-05-22-23-29.png	31.7 KB	2022-09-05	CD SYSTEM-赵正军
572119275.jpg	3.07 MB	2022-09-13	CD SYSTEM-赵正军
minicom.zip	15.4 MB	2022-09-13	CD SYSTEM-赵正军
Serial-COM119_20220927111935.rar	4.68 MB	2022-09-27	SZTS_TEST 邹涛
重启285次未见异常_串口日志.rar	5.13 MB	2022-10-12	SZTS_TEST 邹涛
Serial-COM78_20221015000000.rar	25.2 MB	2022-10-17	SZTS_TEST 邹涛