

Figure - Bug #111971

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

【VC1】 【BSP】 【EVT】 【power】 【低概率】 脚本循环执行reboot, 2H后出现板子进900e, 无法正常起来, 屏幕不亮

2022-09-15 15:00 - SZTS_TEST 邹涛

Status:	CLOSED	Start date:	2022-09-15
Priority:	High	Due date:	2023-03-10
Assignee:	移动测试一组_CDTS 刘强	% Done:	80%
Category:	BSP	Estimated time:	0.00 hour
Target version:	VC1_FSE_0082_20230314	Found Version:	VerifyBuild/Pre_figure_turbox-c2130c-la1.1-qssi12-dev
Need_Info:	--	Degrated:	--
Resolution:	FIXED	Verified Version:	
Severity:	Critical	Fixed Version:	
Reproducibility:	Occasionally	Root cause:	VC1 TP中断异常, 开机一直触发终端, 会导致系统
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、 脚本循环执行reboot, 查看板子和屏幕状态
实际结果： 1、 脚本运行2H后, 板子进入900e不能正常启动, 屏幕黑屏
预期结果： 1、 持续运行reboot脚本, 板子不会进入900e等其他异常状态

Related issues:			
Related to Figure - Bug # 112149: 【BSP】 【EVT】 【power】 【低概率】 M...	CLOSED	2022-09-26	2023-01-18
Related to Figure - Bug # 111349: 【BSP】 【EVT】 【power】 【低概率】 执...	CLOSED	2022-09-15	
Related to Figure - Bug # 113610: 【BSP】 【EVT1】 【MEM】 【必现】 【压测...	CLOSED	2022-11-02	2023-03-10

History

#1 - 2022-09-15 15:03 - SZTS_TEST 邹涛

dump文件：<https://thundersoft.feishu.cn/file/boxcnlA6ubEIPZy2mZhMjGG2mpc>

#2 - 2022-09-15 15:27 - CD SYSTEM-赵正军

- Assignee changed from CD SYSTEM-赵正军 to CD LC 陶洪普

这个问题是基于bug#111349修复版本,做压力测试测出的问题

从 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 (40000ms) 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_dtlm(O) wcd938x_slave_dtlm(O) wcd938x_dtlm(O) wcd9xxx_dtlm(O) mbhc_dtlm(O)
tx_macro_dtlm(O) rx_macro_dtlm(O) va_macro_dtlm(O) wsa_macro_dtlm(O) swr_ctrl_dtlm(O) bolero_cdc_dtlm(O) wsa881x_dtlm(O) wcd_core_dtlm(O)
stub_dtlm(O) hdmi_dtlm(O) swr_dtlm(O) pinctrl_lpi_dtlm(O) pinctrl_wcd_dtlm(O) usf_dtlm(O) native_dtlm(O) platform_dtlm(O) q6_dtlm(O)
adsp_loader_dtlm(O) apr_dtlm(O) snd_event_dtlm(O) q6_notifier_dtlm(O) q6_pdr_dtlm(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: G S 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 : ffffff801776b9e0

但是我们的修改并没有改wireless相关的代码,还请LC团队分析跟进

#3 - 2022-09-16 10:51 - SZTS_TEST 邹涛

- File Serial-COM119_20220915202308.log added

第二次进900e, dump文件 : <https://thundersoft.feishu.cn/file/boxcnZltO33U5m75HmJAlyOi58b>
概率1/22

#4 - 2022-09-16 11:01 - CD LC 陶洪普

- Status changed from New to NEED_INFO

- Assignee changed from CD LC 陶洪普 to SZTS_TEST 邹涛

HI,

请提供一下设置反复重启的脚本文件。谢谢！
需要确认是否是在设备ready下执行的重启。

#5 - 2022-09-16 11:05 - SZTS_TEST 邹涛

- File mem.bat added

#6 - 2022-09-19 13:45 - SZTS_TEST 邹涛

- Assignee changed from SZTS_TEST 邹涛 to CD LC 陶洪普

#7 - 2022-09-23 14:44 - CDTS_TEST 王成

- Status changed from NEED_INFO to ASSIGNED

#8 - 2022-09-26 10:40 - SZTS_TEST 邹涛

- Target version set to VXL_MCE_FSE_V2.0_20220930

#9 - 2022-09-26 10:56 - SZTS_TEST 邹涛

- Assignee changed from CD LC 陶洪普 to CD LC-徐玺栋

#10 - 2022-09-27 11:10 - SZTS_TEST 邹涛

- File Serial-COM119_20220926195358.rar added

http://dvbuild.thundercomm@10.0.76.28/home/scm/VerifyBuild/Pre_figure_turbox-c2130c-la1.1-qssi12-dev/20220924/202209242316-1438 使用上面版本进行mcu循环升级368次后板子进入900e, 屏幕黑屏, 电流大小354ma, adb不可用

dump文件地址: <https://thundersoft.feishu.cn/file/boxcnMcQ7VmCkhF2jn3qj9sUQlg>

#11 - 2022-09-27 11:28 - 物联网项目组-RD3_CDTs 周飞

- Target version changed from *VX1_MCE_FSE_V2.0_20220930* to *VX1_MCE_FSE_V2.0_update_20221012*

#12 - 2022-09-29 10:23 - CD LC 陶洪普

- Assignee changed from *CD LC-徐玺栋* to *CD LC 陶洪普*

#13 - 2022-10-08 22:36 - CD LC 陶洪普

- Status changed from *ASSIGNED* to *NEED_INFO*

- Assignee changed from *CD LC 陶洪普* to *CD SYSTEM-赵正军*

Hi 正军,

这个问题是基于bug#111349修复版本,做压力测试测出的问题

请问当时111349做了哪些改动?

111349

现在111349最新修改后,复测未出现异常现象,该case中描述的现象实在VB调试111349中发生的,实际的DB版本中并未出现该现象,是否可以这么理解?

从直接原因看是在通过PCIE接口传送校准文件到DSP中,出现等待calibration to complete超时.

[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

在111349修复后,复测中看到未发现这个现象,请问是否可以这么理解?

BR!

#14 - 2022-10-09 10:07 - CD SYSTEM-赵正军

- Assignee changed from *CD SYSTEM-赵正军* to *CD LC 陶洪普*

Hi,洪普

BUG#111349的修改有两笔

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

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

DB是否有出现该问题可以和测试再确认一下，我这边收到的消息是对应VB的反馈

BUG#111971问题有可能是修改引出的问题，但有可能LC本身也存在问题。
从两笔提交来看，修改引出的可能性不大，所以才起了此BUG

如果本身存在LC的问题的话，不处理#111349的bug，#111971是测不出来的，因为在重启过程中会被#111349优先拦截

#111349的修改已经入库，可以和测试确认之后的DB是否有做#111971的压力测试

BR!

#15 - 2022-10-11 16:13 - CD LC 陶洪普

现在直接原因是等待校准文件传送到DSP,等待超时. 创建了高通case跟踪, FW侧闭源.

[19:27:36][72.681214] cnss: fatal: Timeout waiting for FW ready indication
[19:27:44][80.876331] cnss: Timeout (40000ms) 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

目前高通回复需要dump日志和符号表， 继续复现获取这些数据中。

#16 - 2022-10-11 16:15 - CDTs_TEST 王成

- Target version changed from Vx1_MCE_FSE_V2.0_update_20221012 to Vx1_MCE_FSE_V3.0_20221030

已提高通CASE，依赖高通解决

#17 - 2022-10-12 10:39 - SZTS_TEST 邹涛

使用release分支1011号userdebug版本，执行多次reboot后，板子进入900e；
log文件：<https://thundersoft.feishu.cn/file/boxcnVxqnnkw6M3lGdHisXYSwXn>

#18 - 2022-10-18 11:28 - 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

#19 - 2022-10-18 11:36 - SZTS_TEST 邹涛

- Status changed from NEED_INFO to ASSIGNED

#20 - 2022-10-18 12:20 - CD LC 陶洪普

确认更新的日志.

#21 - 2022-10-18 22:29 - CD LC 陶洪普

使用release分支1011号userdebug版本, 执行多次reboot后, 板子进入900e;

log文件: <https://thundersoft.feishu.cn/file/boxcnVxqnkw6M3lGdHisXYSwXn>

确认符号表解析Dump中.

#22 - 2022-10-28 00:43 - CD LC 陶洪普

缺少META文件, Dump解析不了. 重新编译了带META的版本.

#23 - 2022-10-28 20:03 - CDTs_TEST 王成

- Target version changed from *VX1_MCE_FSE_V3.0_20221030* to *VX1_MCE_FSE_V3.0_update_20221115*

更换基本后再验证

#24 - 2022-11-01 10:13 - CD LC 陶洪普

20221101测试情况:重启830次, 未复现

版本: ftp://dvbuild@10.0.76.28/home/scm/VerifyBuild/Pre_figure_turbox-c2130c-la1.1-qssi12-dev/20221030/202210300041-2035

(虽是VB版本,无patch, 只勾选了META,和Enter BP-CODE编译)

测试条件: 裸板, 风扇散热

其他测试条件无变化.

#25 - 2022-11-16 23:33 - CD LC 陶洪普

- Due date set to 2022-11-22

编译了带META的版本, 压力测试复现中. 内部设置Due 11/22 优先处理.

#26 - 2022-11-17 16:02 - CDTs-TEST 周婷

- Target version changed from *VX1_MCE_FSE_V3.0_update_20221115* to *VX1_MCE_FSE_V4.0_20221128*

#27 - 2022-11-19 22:56 - CD LC 陶洪普

更新:

ftp://dvbuild@10.0.76.28/home/scm/VerifyBuild/Pre_figure_turbox-c2130c-la1.1-qssi12-dev/20221117/202211171905-2465

使用上面编译的VB版本(只多加了编译META)

重复启动测试,出现

Slot _a is unbootable, trying alternate slot

导致设备进入fastboot. 不能继续压测.

附件(测试结果):VB-带META吧编译-没有额外patch.zip

换ftp://cdiot@192.168.87.46/Pre_figure/ReleaseBuild/Pre_figure_turbox-c2130c-la1.1-qssi12-dev/NULL/20221117/0110 测试

重启200次还未出现异常. 继续测试中.

#28 - 2022-11-19 22:57 - CD LC 陶洪普

- File VB-带META吧编译-没有额外patch.zip added

#29 - 2022-11-23 12:48 - CD LC 陶洪普

- Target version changed from VXL_MCE_FSE_V4.0_20221128 to MCE_V4.0update_20221215(原VCL_FSE_Vdec1219)

进入900E，是因为通过PCIE传送FW和Calibration文件到wifi DSP中超时失败。

触发的Assert流程。

目前在取消触发Assert机制来复现&确认 “ 出现这个问题时PCIe的连接具体有哪些问题？ ”

#30 - 2022-11-28 13:32 - CD LC 陶洪普

[22:04:02][72.676116] cnss: fatal: Timeout waiting for FW ready indication

[22:04:08][78.820258] cnss: Timeout (40000ms) waiting for calibration to complete

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

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

直接原因是没有接收到 QMI_WLFW_FW_MEM_READY_IND_V01 Ready信息触发。{

.type = QMI_INDICATION,

.msg_id = QMI_WLFW_FW_MEM_READY_IND_V01,

.ei = wlfw_fw_mem_ready_ind_msg_v01_ei,

.decoded_size = sizeof(struct wlfw_fw_mem_ready_ind_msg_v01),

.fn = cnss_wlfw_fw_mem_ready_ind_cb

},

提交了Debug patch

<https://dev.thundercomm.com/gerrit/c/general/kernel/msm-4.19/+165655>

去掉了发生这个问题，进入Dump和异常，预备在出现问题的状态下 对比PCI 的状态 和 WLAN FW侧日志。

截止现在 重启测试663次，未复现。

#31 - 2022-11-29 02:01 - CD LC 陶洪普

继续复现中。已执行757次。（中间意外usb连线断开一次）

#32 - 2022-11-30 08:25 - CD LC 陶洪普

更新：

测试1233次重启测试，继续复测。

#33 - 2022-12-01 10:31 - CD LC 陶洪普

更新：

再次测试515次未复现（每次启动后，判断wifi驱动加载后，重启。过程大约 1 分钟）

今天如果不能复现，恢复原测试方法（设备启动过程中，重启）

#34 - 2022-12-06 08:34 - CD LC 陶洪普

UPdate:

在更新测试流程（每次启动后判断WiFi驱动加载了之后重启（大约每次启动一分钟后重启））没有复现出该票中故障。
但复现了另外一个pci读写异常问题，分析日志中。

#35 - 2022-12-09 09:53 - CD LC 陶洪普

在每次判断设备正常加载驱动wlan之后, 目前未浮现该票中现象。
(出现的了一次其他原因的异常)
现在恢复之前的测试方法来测试。

#36 - 2022-12-12 02:30 - CD LC 陶洪普

During the restart pressure test (repeatedly restarting the device), the following exceptions occur in probability.

[71.148931] [MAX975X:max96755g_write_bytes] **ERROR** i2c master send 0x8E err
[72.672569] cnss: fatal: Timeout waiting for FW ready indication
[72.960938] i2c_geni 980000.i2c: i2c error :-107
[72.965750] [MAX975X:max96755g_write_bytes] **ERROR** i2c master send 0x8E err
[74.784942] i2c_geni 980000.i2c: i2c error :-107
[74.797016] [MAX975X:max96755g_write_bytes] **ERROR** i2c master send 0x8E err
[76.608920] i2c_geni 980000.i2c: i2c error :-107
[76.621023] [MAX975X:max96755g_write_bytes] **ERROR** i2c master send 0x8E err
[78.432936] i2c_geni 980000.i2c: i2c error :-107
[78.445054] [MAX975X:max96755g_write_bytes] **ERROR** i2c master send 0x8E err
[78.816122] cnss: Timeout (40000ms) waiting for calibration to complete

If Timeout (40000ms) waiting for calibration to complete, the device will trigger an active exception.
Before this, “ cnss: fatal: Timeout waiting for FW ready indication ” also occurs.

For FW ready, since it is closed source, have asked Qualcomm to help check.

#37 - 2022-12-12 02:33 - CD LC 陶洪普

出现校准文件导入超时是因为FW没有发送准备好的Message. 已要求高通来确认FW 日志。
另外，该问题在重复启动测试1600多次之后出现了一次，复现困难。
请测试帮忙复现。抓取wlan_logs，串口和logcat。

#38 - 2022-12-13 10:18 - CDTs-TEST 周婷

如需依赖测试 请正确流转bug 状态，谢谢

#39 - 2022-12-13 23:49 - CD LC 陶洪普

- File 20221213-logs.zip added

更新：
复现了一次，传送20221213-logs.zip给高通，同步分析中。

#40 - 2022-12-14 19:01 - CDTs-TEST 周婷

- Target version changed from MCE_V4.0update_20221215(原VCL_FSE_Vdec1219) to VX1_MCE_FSE_V5.0_20221230

#41 - 2022-12-16 14:05 - CD LC 陶洪普

使用本地编译的版本，包含下面的elf文件，复现中。复现后，根据elf文件解析dump。

LINUX/android/out/target/product/figure/obj/kernel/msm-4.19/vmlinux
LINUX/android/out/target/product/figure/obj/vendor/qcom/opensource/wlan/qcacld-3.0/.qca6490/qca_cld3_qca6490.ko
LINUX/android/out/target/product/figure/obj/vendor/qcom/opensource/wlan/qcacld-3.0/.qca6390/qca_cld3_qca6390.ko
wlan_proc/core/rombin/v1/core_rom_v1_link_patched/build/6490.wlanfw.eval/CORE_ROM_V1_LINK_PATCHED_6490.wlanfw.evalQ_link.elf
wlan_proc/config/bsp/cnss_ram_v1_TO_link_patched/build/6490.wlanfw.eval_v1_TO_xr/CNSS_RAM_V1_TO_LINK_PATCHED_6490.wlanfw.eval_v1_TO_xrQ_link.elf
wlan_proc/config/bsp/cnss_ram_v1_TO_link_patched/build/6490.wlanfw.eval_v1_TO_xr/Data.msc
wlan_proc/scripts/myps/qshrink/msg_hash.txt
wlan_proc/wlan/subsys/phyuocode_binary/hsp/pcss_m3_tx_rx.axf

#42 - 2022-12-19 17:36 - CD LC 陶洪普

FW没有正确传输完成，创建了另外一个case 06411661，请高通BSP一起分析。

FW download is stuck

0x0000000045E42FE8 | 61.071999: mhi_sm_set_trig_pending: 8
0x0000000045E43030 | 61.072003: mhi_core_isr: MHI_SYS_ERR triggered by Host

on host side, tasklet is pending on CPU0, will cloned a case to BSP team to check further

-----irq_stat-----

core 0: __softirq_pending = 0x50 ['BLOCK_SOFTIRQ', 'TASKLET_SOFTIRQ']
core 1: __softirq_pending = 0x0 []
core 2: __softirq_pending = 0x0 []
core 3: __softirq_pending = 0x0 []
core 4: __softirq_pending = 0x0 []
core 5: __softirq_pending = 0x0 []
core 6: __softirq_pending = 0x0 []
core 7: __softirq_pending = 0x0 []

#43 - 2022-12-20 18:42 - CD LC 陶洪普

分析:

. the process/thread running on core 0

Task name	PID	Exec_Started_at	Last_Queued_at	Total_wait_time	No_of_times_exec	Prio	State	Last_enqueued_ts	Last_sleep_ts	Last runtime(msec)
ifconfig	1363	39.468297463	0.000000000	0.074291511	28 120	R	39.448432848	39.413550035	0.000000000	
2.										

3f95308 [79.280795] [1650923141] : LOGK_READL from address ffffff800c3f2790(40300790) called from addr ffffff95360d7ab8 lan743x_intr_entry_isr[jt] Line 711 of
\"/home/xuxidong/code/Figure/turbox_c2130c_vendor/LINUX/android/kernel/msm-4.19/include/asm-generic/io.h\"
3f95310 [79.280797] [1650923192] : LOGK_WRITEL from address ffffff800c3f2798(40300798) called from addr ffffff95360d7b78 lan743x_intr_entry_isr[jt] Line 745 of
\"/home/xuxidong/code/Figure/turbox_c2130c_vendor/LINUX/android/kernel/msm-4.19/include/asm-generic/io.h\"
3f95318 [79.280798] [1650923205] : LOGK_READL from address ffffff800c3f2780(40300780) called from addr ffffff95360d7594 lan743x_intr_shared_isr[jt] Line 711 of
\"/home/xuxidong/code/Figure/turbox_c2130c_vendor/LINUX/android/kernel/msm-4.19/include/asm-generic/io.h\"
3f95320 [79.280800] [1650923255] : LOGK_WRITEL from address ffffff800c3f2780(40300780) called from addr ffffff95360d75e0 lan743x_intr_shared_isr[jt] Line 745 of
\"/home/xuxidong/code/Figure/turbox_c2130c_vendor/LINUX/android/kernel/msm-4.19/include/asm-generic/io.h\"

3f95328 [79.280801] [1650923268] : LOGK_Writel from address fffff800c3f2794(40300794) called from addr fffff95360d7d18 lan743x_intr_entry_isr[jt] Line 745 of
\"/home/xuxidong/code/Figure/turbox_c2130c_vendor/LINUX/android/kernel/msm-4.19/include/asm-generic/io.h\"

#44 - 2022-12-22 17:34 - CD LC 陶洪普

更新：

Same as before, core0 is busy processing lan743x interrupts, can you disable this module then test again

lan743x是Ethernet的驱动，从直接原因看是这个占用了core0，阻塞了wifi驱动进程。

- 在尝试暂时移除lan743x来确认是否这个因素影响的

- 同时找测试找带Ethernet设备来复测。

#45 - 2022-12-26 14:24 - 物联网项目组-RD3_CDTs 周飞

- Target version changed from VX1_MCE_FSE_V5.0_20221230 to VX1_MCE_FSE_C sample_20230113

1月10号代码入库 @陶洪普

#46 - 2022-12-27 22:28 - CD LC 陶洪普

更新:

在使用了 <https://dev.thundercomm.com/gerrit/c/general/clo/la/kernel/msm-4.19/+171865> patch基础上

修改点, 注释了LAN743X Ethernet驱动(注释后,没有加载Eth驱动)

#CONFIG_MARVELL_88Q2112=y

#CONFIG_GENERIC_PHY=y

#CONFIG_PHYLIB=y

#CONFIG_LAN743X=y

测试两块板子, 测试了54小时,无发生进入900e异常.

板 4160580E 20221223 13:00开始测试,到1227 22:00 共106H

板 20AA3BFE 20221223 13:00开始测试,到1225 20:00 共 55H(中间被拔掉了电源)

由此, wifi驱动与Ethernet阻塞core0有一定关联.

#47 - 2022-12-28 10:17 - CDTs_TEST 刘勇

使用EVT2-VX1整机联通以太网盒子以及路由, 使用FlatBuild_HH_VX1_MCE_FSE.M.D.userdebug.01.00.X101.202212231033版本, 测试11个小时, 没有进入900e模式

#48 - 2022-12-29 21:54 - CD LC 陶洪普

更新：

尝试修改了延长等待QMI_WLFW_FW_READY_IND_V01消息的定时器时间。（恢复了Ethernet的驱动），在不连接以太网卡的板子上，复测中。

<http://dev.thundercomm.com/gerrit/c/general/kernel/msm-4.19/+173203>

#49 - 2023-01-12 00:29 - CD LC 陶洪普

将wlan 驱动加载时间在原有boot阶段，延迟5秒开始。提交patch
<https://dev.thundercomm.com/gerrit/c/general/platform/vendor/qcom/kona/+175730>
https://dev.thundercomm.com/gerrit/c/general/device/qcom/sepolicy_vndr/+175812

压测中

#50 - 2023-01-12 13:20 - CDTs-TEST 周婷

- Target version deleted (VX1_MCE_FSE_C sample_20230113)

压测中无法赶上今日版本入库，最晚11/22 需有结论

#51 - 2023-01-12 15:59 - CD TPM-王祥林

- Due date changed from 2022-11-22 to 2023-01-18

#52 - 2023-01-17 10:19 - 物联网测试组_CDTs 段小刚

验证：版本——FlatBuild_HH_VX1_MCE_FSE.M.D.user.01.00.X101.202301112125
设备——VX1
连接以太网-路由，使用reboot脚本执行1961次未复现
Log: 对应tlog太大，无法上传

#53 - 2023-02-07 20:51 - CD LC 陶洪普

--Previous comment-----
修改点, 注释了LAN743X Ethernet驱动(注释后,没有加载Eth驱动)
#CONFIG_MARVELL_88Q2112=y
#CONFIG_GENERIC_PHY=y
#CONFIG_PHYLIB=y
#CONFIG_LAN743X=y

测试两块板子, 测试了54小时,无发生进入900e异常.

板 4160580E 20221223 13:00开始测试,到1227 22:00 共106H

在异常时, Core 0 中lan743占用
[22:04:10][80.323638] CPU: 0 PID: 1326 Comm: ifconfig Tainted: G S D W O L 4.19.157+ #1
[22:04:10][80.331586] Hardware name: Qualcomm Technologies, Inc. kona MTP-RmPM8150b. VX1 EVT2 (DT)
[22:04:10][80.340341] Call trace:
[22:04:10][80.342863] dump_backtrace+0x0/0x258
[22:04:10][80.346627] show_stack+0x20/0x30
[22:04:10][80.350035] dump_stack+0xd8/0x12c
[22:04:10][80.353532] ipi_cpu_stop+0xac/0xc0
[22:04:10][80.357119] ipi_cpu_stop+0x0/0xc0
[22:04:10][80.360615] gic_handle_irq+0x124/0x1d8
[22:04:10][80.364559] el1_irq+0xec/0x198
[22:04:10][80.367797] __do_softirq+0x118/0x554
[22:04:10][80.371566] irq_exit+0xfc/0x120

```
[22:04:10][ 80.374888] __handle_domain_irq+0xa8/0xf8
[22:04:10][ 80.379101] gic_handle_irq+0x160/0x1d8
[22:04:10][ 80.383045] el1_irq+0xec/0x198
[22:04:10][ 80.386286] ktime_get+0x84/0x110
[22:04:10][ 80.389695] usleep_range+0x30/0x90
[22:04:10][ 80.393285] lan743x_netdev_open+0x714/0x2040
[22:04:10][ 80.397768] __dev_open+0xcc/0x190
[22:04:10][ 80.401267] __dev_change_flags+0x9c/0x1c0
```

在user版本上，使用延时wifi 驱动加载5秒方法，后导致tcservice 启动wifi失败（tcservice在service阶段启动，wifi驱动还未完全加载）

```
01-11 19:44:46.719 1520 2118 I WifiService: setWifiEnabled package=com.thundercomm.tcservice uid=1000 enable=true
01-11 19:44:46.720 1520 1845 E WifiSelfRecovery: Triggering recovery for reason: WifiNative Failure
01-11 19:44:46.720 1520 1845 E WifiSelfRecovery: Restarting wifi for reason: WifiNative Failure
01-11 19:44:46.721 1520 1845 I WifiNative: Vendor HAL died. Cleaning up internal state.
01-11 19:44:47.113 1520 1591 I uc_send_user_broadcast: [0,android.intent.action.LOCKED_BOOT_COMPLETED]
01-11 19:44:47.216 2682 2682 I AlarmClock: AlarmInitReceiver android.intent.action.LOCKED_BOOT_COMPLETED
01-11 19:44:47.284 1520 1609 I ActivityManager: Posting BOOT_COMPLETED user #0
01-11 19:44:47.293 1520 1587 I uc_send_user_broadcast: [0,android.intent.action.BOOT_COMPLETED]
01-11 19:44:47.563 2584 2584 I QCCAAuthMgr: android.intent.action.LOCKED_BOOT_COMPLETED intent received
01-11 19:44:47.727 1520 1845 E WifiNative: Failed to start vendor HAL
01-11 19:44:47.728 1520 1845 E WifiNative: Failed to start Hal
01-11 19:44:47.735 1520 1845 E WifiSelfRecovery: Triggering recovery for reason: WifiNative Failure
01-11 19:44:47.735 1520 1845 E WifiSelfRecovery: Restarting wifi for reason: WifiNative Failure
01-11 19:44:47.782 1520 1845 I WifiNative: Vendor HAL died. Cleaning up internal state.
01-11 19:44:47.790 1520 1845 E WifiSelfRecovery: Triggering recovery for reason: WifiNative Failure
```

在DB版本中，lan743x准时进入Ready状态 " Link is Down " 没有阻塞W i F i 接收QMI消息现象。

```
01-01 17:53:22.493 0 0 I libphy : lan743x-mdiobus-ext: probed
01-01 17:53:28.534 0 0 D cnss : Calibration done is 0
01-01 17:53:29.107 0 0 E wlan : Loading driver v5.2.022.10G; 2023-02-05T02:53:06Z; cld;; cmn;;
01-01 17:53:29.120 0 0 D cnss : Start to wait for calibration to complete
01-01 17:53:29.271 0 0 I lan743x 0001: 01:00:0 eth0: using MSIX interrupts, number of vectors = 6
01-01 17:53:29.291 0 0 I lan743x 0001: 01:00:0 eth0: Link is Down
01-01 17:53:28.462 0 0 I lan743x 0001: 01:00:0 eth0: successfully registered ptp clock
01-01 17:53:32.148 0 0 D cnss : Received QMI WLFW calibration done indication
01-01 17:53:32.148 0 0 D cnss : Calibration completed successfully
```

重启测试已测试 1806 次， 版本

ftp://cdiot@192.168.87.46/Pre_figure/DailyBuild/Pre_figure_turbox-c2130c-la1.1-qssi12-dev/user/20230205/0014/FlatBuild_HH_VX1_MCE_FSE.M.D.user.01.00.X101.202302050304.zip

因此，延时不合入。使用user DB版本，非root做此项测试。

#54 - 2023-02-07 20:52 - CD LC 陶洪普

- Status changed from ASSIGNED to RESOLVED

- Assignee changed from CD LC 陶洪普 to 移动测试一组_CDTs 刘强

- % Done changed from 0 to 60

Hi 刘强,

请参照上面分析，使用user DB版本，非root做此项测试。
谢谢！

#55 - 2023-02-08 10:15 - CD LC 陶洪普
- Resolution changed from -- to WONTFIX

#56 - 2023-02-08 11:49 - CD LC 陶洪普

更新：
在问题报在userdebug版本，分析Ethernet驱动lan743x影响的原因，延时加载wifi驱动解决这个问题。
但在user版本上，未复现该问题。如果合入了延时加载wifi驱动，会导致tc-service打开wifi失败（因为延时后，tc-service打开wifi时，wifi驱动还未加载完成）
综上，" 延时加载wifi驱动 " 不合入。
请在user，非root版本上测试。

#57 - 2023-02-25 17:11 - 移动测试一组_CDTs 刘强
- Status changed from RESOLVED to VERIFY_FAILED
- Assignee changed from 移动测试一组_CDTs 刘强 to CD SYSTEM-胡兵

验证版本：
ftp://cdiot@192.168.87.46/Pre_figure/ReleaseBuild/Pre_figure_turbox-c2130c-la1.1-qssi12-dev/user/20230223/0945/FlatBuild_HH_VX1_MCE_FSE.M.R.user.01.00.0077.X101.zip
验证结果：Fail
验证硬件：VC V02

执行循环重启第991次后，设备进入900E

Dump与tlog日志保存在FTP：<ftp://cdiot@192.168.87.46/Figure/bug/111971>

#58 - 2023-02-28 13:53 - CDTs-TEST 周婷

蒋富雄对应

#59 - 2023-02-28 14:17 - CDTs-TEST 周婷
- Due date changed from 2023-01-18 to 2023-03-10
- Assignee changed from CD SYSTEM-胡兵 to System组-RD3_CDTs 蒋富雄

#60 - 2023-02-28 14:27 - CDTs-TEST 周婷
- Category changed from LC to SYSTEM

#61 - 2023-02-28 14:31 - CD TPM-王祥林
- Status changed from VERIFY_FAILED to ASSIGNED
- Resolution deleted (WONTFIX)

富雄

洪普反馈新抓的日志和之前分析的wifi驱动加载错误不一样，属于其他问题。请帮忙跟进一下，具体情况和洪普沟通一下。

#62 - 2023-02-28 14:31 - CD TPM-王祥林

- Target version set to VCI_FSE_0082_20230314

#63 - 2023-02-28 14:49 - System组-RD3_CDTs 蒋富雄

从log来看空指针了，需要TP处理

```
[ 1.623522] Info Block: 1f 00 00 68 b3 22 0a 01 00 6c c9 22 4a 00 01 6d
[ 1.623523] Info Block: 14 23 10 00 01 6f 25 23 1f 02 00 70 85 23 04 01
[ 1.623525] Info Block: 01 71 8f 23 06 01 00 81 9d 23 05 00 01 85 a3 23
[ 1.623527] Info Block: 29 01 00 b2 e0 fb
[ 1.623539] atmel_mxt_ts 0-004a: Read Info Block success
[ 1.623546] atmel_mxt_ts 0-004a: Registering input device
[ 1.623822] Unable to handle kernel NULL pointer dereference at virtual address 0000000000000000
[ 1.623829] Mem abort info:
[ 1.623833]   ESR = 0x96000045
[ 1.623841]   Exception class = DABT (current EL), IL = 32 bits
[ 1.623846]   SET = 0, FnV = 0
[ 1.623850]   EA = 0, S1PTW = 0
[ 1.623855] Data abort info:
[ 1.623859]   ISV = 0, ISS = 0x00000045
[ 1.623864]   CM = 0, WnR = 1
[ 1.623870] [0000000000000000] user address but active_mm is swapper
[ 1.623879] Internal error: Oops: 96000045 [#1] PREEMPT SMP
[ 1.623887] Modules linked in:
[ 1.623896] Process swapper/0 (pid: 0, stack limit = 0x00000000d2850ef5)
[ 1.623906] CPU: 0 PID: 0 Comm: swapper/0 Tainted: G S      4.19.157-perf+ #1
[ 1.623911] Hardware name: Qualcomm Technologies, Inc. kona MTP-RmPM8150b. VC1 EVT2 (DT)
[ 1.623918] pstate: 80400085 (Nzcv daIf +PAN -UAO)
[ 1.623930] pc : geni_i2c_irq+0x3dc/0x528
[ 1.623941] lr : __handle_irq_event_percpu+0x100/0x2b8
[ 1.623945] sp : ffffff8008003e30
[ 1.623949] x29: ffffff8008003e30 x28: ffffffaa3d7b9b88
[ 1.623956] x27: ffffffaa3d7fa000 x26: ffffffaa3d683000
[ 1.623963] x25: ffffffaa3d60db38 x24: 0000000008000081
[ 1.623968] x23: 0000000000000000 x22: 0000000008000081
[ 1.623974] x21: 0000000000000000 x20: 0000000000000000
[ 1.623980] x19: ffffffe7167a0080 x18: 0000000000000000
[ 1.623987] x17: 0000000000000000 x16: 0000000000000001
[ 1.623993] x15: 0000000000000000 x14: 0000000000000000
[ 1.624000] x13: 0000000000000000 x12: 0000000000000000
[ 1.624005] x11: 0000000000000000 x10: 0000000000000000
[ 1.624011] x9 : 0000000000000001 x8 : ffffff8015493d58
[ 1.624017] x7 : 000000000465f058 x6 : ffffffe7167a66a2
[ 1.624022] x5 : 0000000000000040 x4 : ffffffe7158f3b00
[ 1.624028] x3 : ffffffaa3d603d60 x2 : 0000000000000001
[ 1.624034] x1 : ffffffe7167a0080 x0 : 0000000000000113
[ 1.624042] Call trace:
[ 1.624049]   geni_i2c_irq+0x3dc/0x528
[ 1.624055]   __handle_irq_event_percpu+0x100/0x2b8
[ 1.624060]   handle_irq_event+0x5c/0xd0
[ 1.624067]   handle_fasteoi_irq+0x108/0x200
[ 1.624073]   __handle_domain_irq+0x7c/0xc0
[ 1.624083]   gic_handle_irq+0x14c/0x1c4
```

[1.624090] el1_irq+0xe8/0x190
[1.624095] arch_cpu_idle+0xec/0x1e0
[1.624105] do_idle+0x104/0x290
[1.624110] cpu_startup_entry+0x20/0x28
[1.624120] rest_init+0xd0/0xe0
[1.624133] start_kernel+0x4ec/0x574

#64 - 2023-02-28 14:50 - System组-RD3_CDTs 蒋富雄

- File dmesg_TZ.txt added

#65 - 2023-03-02 14:37 - CD BSP-杜磊

补充信息， 正常Atmel tp log如下：

[6.518383] atmel_mxt_ts 0-004a: ATMEL MaXTouch Driver version 4.12c
[6.525019] atmel_mxt_ts 0-004a: Using gpiod to irq mapping(383) to override the client's irq(0)
[6.534053] atmel_mxt_ts 0-004a: Mxt Reset (Flag: 0C)
[6.539248] atmel_mxt_ts 0-004a: Resetting chip(H)
[6.544192] atmel_mxt_ts 0-004a: <Seqnum>: 0 -> 0
[6.556694] atmel_mxt_ts 0-004a: Family: 164 Variant: 56 Firmware V2.0.AA Objects: 42
[6.575443] Info Block: a4 38 20 aa 29 47 2a 75 06 01 f2 17 00 25 ce 17
[6.575444] Info Block: 81 00 00 2c 50 18 00 00 00 05 51 18 0a 00 00 06
[6.575444] Info Block: 5c 18 06 00 01 44 63 18 48 00 01 26 ac 18 3f 00
[6.575445] Info Block: 00 0e ec 18 20 01 00 47 2e 19 f9 00 00 6e 28 1a
[6.575445] Info Block: 8d 05 00 76 7c 1d 02 00 01 8d 7f 1d 08 28 00 91
[6.575446] Info Block: f0 1e 00 00 00 07 f1 1e 06 00 00 08 f8 1e 0e 00
[6.575446] Info Block: 00 0f 07 1f 0a 01 01 12 1d 1f 01 00 00 13 1f 1f
[6.575446] Info Block: 0f 00 01 18 2f 1f 12 01 04 19 55 1f 26 00 01 1b
[6.575447] Info Block: 7c 1f 06 01 01 28 8a 1f 06 01 00 2a 98 1f 0d 01
[6.575447] Info Block: 00 2e b4 1f 17 00 01 38 cc 1f 2c 00 01 3d f9 1f
[6.575448] Info Block: 04 05 01 41 17 20 16 02 01 46 5c 20 09 18 01 48
[6.575448] Info Block: 56 21 58 00 01 4e af 21 0b 01 00 4f c7 21 03 05
[6.575449] Info Block: 00 50 df 21 0d 01 01 64 fb 21 4b 01 12 65 93 22
[6.575449] Info Block: 1f 00 00 68 b3 22 0a 01 00 6c c9 22 4a 00 01 6d
[6.575450] Info Block: 14 23 10 00 01 6f 25 23 1f 02 00 70 85 23 04 01
[6.575450] Info Block: 01 71 8f 23 06 01 00 81 9d 23 05 00 01 85 a3 23
[6.575451] Info Block: 29 01 00 b2 e0 fb
[6.575456] atmel_mxt_ts 0-004a: Read Info Block success
[6.576394] atmel_mxt_ts 0-004a: T6 Config Checksum: 0x1B6EAC
[6.580925] atmel_mxt_ts 0-004a: Registering input device
[6.597164] atmel_mxt_ts 0-004a: peak enalbe, check curve compensation
[6.604335] atmel_mxt_ts 0-004a: curve data: magic: 17238; flag: 1;levels: 7
[6.611589] atmel_mxt_ts 0-004a: curve coordinate compensation at X
[6.618034] atmel_mxt_ts 0-004a: curve coordinate compensation levels is: 7
[6.627690] atmel_mxt_ts 0-004a: curve compensation enabled
[6.633423] atmel_mxt_ts 0-004a: Touchscreen size {x,y} = {2559,1079}
[6.653515] atmel_mxt_ts 0-004a: peak enalbe, check curve compensation
[6.660897] atmel_mxt_ts 0-004a: curve data: magic: 17238; flag: 1;levels: 7
[6.668138] atmel_mxt_ts 0-004a: curve coordinate compensation at X
[6.674582] atmel_mxt_ts 0-004a: curve coordinate compensation levels is: 7
[6.683856] atmel_mxt_ts 0-004a: curve compensation enabled
[6.689588] atmel_mxt_ts 0-004a: Touchscreen size {x,y} = {2559,1079}
[6.706645] atmel_mxt_ts 0-004a: Falling back to syfs fallback for: maxtouch.cfg

[6.714279] atmel_mxt_ts 0-004a: mxt_probe: probe successfully!
[11.456703] atmel_mxt_ts 0-004a: T25 Status 0x 0 Info: 00 00 00 00 00
[11.481455] atmel_mxt_ts 0-004a: Config file CRC 0x1B6EAC same as device CRC: No update required.
[11.490582] atmel_mxt_ts 0-004a: Skip update config file
[11.496669] atmel_mxt_ts 0-004a: Initialized power cfg: ACTV 10, IDLE 20
[11.503561] atmel_mxt_ts 0-004a: Get Irqflags 0x0, will check Retrigen mode
[11.511607] atmel_mxt_ts 0-004a: RETRIGEN Enabled feature
[21.248569] atmel_mxt_ts 0-004a: FB event:2,blank:0
[21.248572] atmel_mxt_ts 0-004a: suspend: event = 2, blank = 0, not care
[23.356007] atmel_mxt_ts 0-004a: FB event:1,blank:0
[23.356008] atmel_mxt_ts 0-004a: drm_notifier_callback: UNBLANK! Resume by drm notifier.

#66 - 2023-03-02 17:30 - CD BSP-杜磊

- File kernel_log.txt added

#67 - 2023-03-07 10:41 - CD BSP-杜磊

- Category changed from SYSTEM to BSP
- Assignee changed from System组-RD3_CDTS 蒋富雄 to BSP组-RD3_TSCD 贾顺旺

#68 - 2023-03-07 19:29 - CD BSP-杜磊

- File 副本VC1_Display_Info_V1.0 - FSE.xlsx added

#69 - 2023-03-08 19:35 - CD BSP-杜磊

- Subject changed from 【VX1】 【BSP】 【EVT】 【power】 【低概率】 脚本循环执行reboot， 2H后出现板子进900e， 无法正常起来， 屏幕不亮 to 【VC1】 【BSP】 【EVT】 【power】 【低概率】 脚本循环执行reboot， 2H后出现板子进900e， 无法正常起来， 屏幕不亮
- % Done changed from 60 to 80
- Resolution set to FIXED
- Root cause set to VC1 TP中断异常， 开机一直触发终端， 会导致系统相应不及时， 引起crash

修改：
<https://dev.thundercomm.com/gerrit/c/general/kernel/msm-4.19/+186306>

VB:
http://jenkins.thundercomm.com/job/VerifyBuild_for_IOT_6490/2863/

驗證方法：
1. 反復重啓：a.確認系統不會發生crash; b.重啓後tp觸摸正常。
2. 冷熱插拔，確認TP能正常觸摸。
3. 觸摸時，中斷數會增加。 不觸摸時，中斷數不增加
adb shell cat /proc/interrupts | grep atm
383: 426 0 0 0 0 0 0 0 msmgpio 7 Edge atmel_mxt_ts

#70 - 2023-03-09 10:13 - CD BSP-杜磊

- Status changed from ASSIGNED to RESOLVED
- Assignee changed from BSP组-RD3_TSCD 贾顺旺 to 移动测试一组_CDTS 刘强

#71 - 2023-03-10 13:39 - IoT scm

Gerrit Merge Information :

ID	Project	Branch	Uploader
186793	general/kernel/msm-4.19	Pre_figure_turbox-c2130c-la1.1-vendo	dulei0503@thundersoft.com

		r-ftm_v0081	
BSP:TP: Fix VC1 touch intrrupt abnormal issueFix VC1 touch intrrupt abnormal issueTC-RID: 1201-0100401IssueID: TS-R-DF-111971Change-Id: I2b3a43c04c4bfca8f0adf75e7b7d11f6d90f1fdb			

#72 - 2023-03-10 18:12 - IoT scm

Gerrit Merge Information :

ID	Project	Branch	Uploader
186306	general/kernel/msm-4.19	Pre_figure_turbox-c2130c-la1.1-vendor-dev	dulei0503@thundersoft.com
BSP:TP: Fix VC1 touch intrrupt abnormal issueFix VC1 touch intrrupt abnormal issueTC-RID: 1201-0100401IssueID: TS-R-DF-111971Change-Id: I2b3a43c04c4bfca8f0adf75e7b7d11f6d90f1fdb			

#73 - 2023-03-13 17:19 - 移动测试一组_CDTs 刘强

压测：1000次未复现，继续压测中

#74 - 2023-03-22 13:41 - 移动测试一组_CDTs 刘强

- Status changed from RESOLVED to VERIFIED

目前压测2574次，未复现问题，暂时关闭此问题，后续日常测试中继续压测跟踪

#75 - 2023-03-22 13:41 - 移动测试一组_CDTs 刘强

- Status changed from VERIFIED to CLOSED

Files

Serial-COM119_20220914175848.log	13.6 MB	2022-09-15	SZTS_TEST 邹涛
Serial-COM119_20220915202308.log	2.87 MB	2022-09-16	SZTS_TEST 邹涛
mem.bat	179 Bytes	2022-09-16	SZTS_TEST 邹涛
Serial-COM119_20220926195358.rar	7.68 MB	2022-09-27	SZTS_TEST 邹涛
Serial-COM78_20221015000000.rar	25.2 MB	2022-10-18	SZTS_TEST 邹涛
VB-带META吧编译-没有额外patch.zip	847 KB	2022-11-19	CD LC 陶洪普
20221213-logs.zip	40 MB	2022-12-13	CD LC 陶洪普
dmesg_TZ.txt	213 KB	2023-02-28	System组-RD3_CDTs 蒋富雄
kernel_log.txt	73 KB	2023-03-02	CD BSP-杜磊
副本VC1_Display_Info_V1.0 - FSE.xlsx	78.3 KB	2023-03-07	CD BSP-杜磊