

Figure - Bug #114334

Bug # 111192 (CLOSED): 【Figure】【EVT3】【EE】【启动时间1分6秒】【Performance】
【BSP】【Touch】【EVT】需要把TP的驱动ko化，以优化1.2s的开机时间。

2022-12-06 15:18 - CD SYSTEM-龚元祝

Status:	CLOSED	Start date:	2022-12-06
Priority:	Normal	Due date:	2023-02-15
Assignee:	移动测试一组_CDTS 刘强	% Done:	100%
Category:	BSP	Estimated time:	0.00 hour
Target version:		Found Version:	every version
Need_Info:	--	Degraded:	--
Resolution:	FIXED	Verified Version:	
Severity:	Normal	Fixed Version:	
Reproducibility:	Every time	Root cause:	驱动加载冗余，增加了开机时长
Test Type:	ST		

Description

Line 921: [1.776541] cyttsp7_i2c_adapter 0-0024: cyttsp7_init: INIT CYTTSP RST gpio=1106 and IRQ gpio=1107 ERR gpio=1123
Line 923: [1.868047] cyttsp7_i2c_adapter 0-0024: cyttsp7_xres: RESET CYTTSP gpio=1106 r=0
Line 925: [1.868207] cyttsp7_i2c_adapter 0-0024: cyttsp7_handle_work_function: Fail read adapter r=-107
Line 941: [2.880055] cyttsp7_i2c_adapter 0-0024: cyttsp7_wait_bl_heartbeat: tmo waiting bl heartbeat cd->mode=0
Line 942: [2.880065] cyttsp7_i2c_adapter 0-0024: cyttsp7_startup_: Error on h/w reset r=-62
Line 943: [2.880073] cyttsp7_i2c_adapter 0-0024: cyttsp7_startup_: cyttsp7_exit startup rc=-19...
Line 945: [2.880223] cyttsp7_i2c_adapter 0-0024: cyttsp7_core_sleep_device: Fail read adapter r=-107
Line 946: [2.880231] cyttsp7_i2c_adapter 0-0024: _cyttsp7_core_sleep: sleep state rc -107
Line 947: [2.924074] cyttsp7_i2c_adapter 0-0024: cyttsp7_core_rt_suspend: Error on sleep
Line 948: [2.924082] cyttsp7_i2c_adapter 0-0024: cyttsp7_probe: Fail initial startup r=-19
Line 949: [2.924165] cyttsp7_i2c_adapter 0-0024: cyttsp7_probe failed.

History

- #1 - 2022-12-08 11:37 - CDTS-TEST 周婷
- Target version set to VX1_MCE_FSE_V5.0_20221230
- #2 - 2022-12-09 13:59 - CD SYSTEM-龚元祝
- Assignee changed from CD BSP-余霄 to CD SYSTEM-龚元祝
 - Target version deleted (VX1_MCE_FSE_V5.0_20221230)

max96755 和 cyttsp7 驱动ko化，提升开机时间1.6s左右。

代码提交如下：

<https://dev.thundercomm.com/gerrit/c/general/platform/vendor/opensource/display-drivers/+168624>
<https://dev.thundercomm.com/gerrit/c/general/platform/vendor/qcom/kona/+168260>
<https://dev.thundercomm.com/gerrit/c/general/kernel/msm-4.19/+168261>

Line 12: 01-01 10:11:47.538 0 0 I : Booting Linux on physical CPU 0x0000000000 [0x51df805e]
Line 1216: 01-01 10:11:48.783 0 0 I init : init first stage started!
Line 1268: 01-01 10:11:50.126 0 0 I init : init second stage started!
Line 1793: 01-01 10:11:51.250 504 504 F DEBUG : Cmdline: /system/bin/init second_stage
Line 3084: 01-01 10:11:52.292 668 668 I boot_progress_start: 5364
Line 3204: 01-01 10:11:52.718 668 668 I boot_progress_preload_start: 5790
Line 3644: 01-01 10:11:53.668 668 668 I boot_progress_preload_end: 6740
Line 3799: 01-01 10:11:54.107 1489 1489 I boot_progress_system_run: 7179

Line 4273: 01-01 10:11:54.938 1489 1489 | boot_progress_pms_start: 8010
Line 4459: 01-01 10:11:55.014 1489 1489 | boot_progress_pms_system_scan_start: 8086
Line 4502: 01-01 10:11:55.393 1489 1489 | boot_progress_pms_data_scan_start: 8465
Line 4511: 01-01 10:11:55.397 1489 1489 | boot_progress_pms_scan_end: 8469
Line 4521: 01-01 10:11:55.456 1489 1489 | boot_progress_pms_ready: 8528
Line 5654: 12-08 19:44:51.471 1489 1489 | boot_progress_ams_ready: 9126
Line 7033: 12-08 19:44:52.196 1489 1575 | boot_progress_enable_screen: 9852

#3 - 2022-12-09 14:03 - CD SYSTEM-龚元祝

- Status changed from New to RESOLVED

- Assignee changed from CD SYSTEM-龚元祝 to CDTS_TEST 王成

请用以下VB验证开机时间，并对屏幕和触摸做压测，看是否会发生异常。

/Pre_figure/VerifyBuild/Pre_figure_turbox-c2130c-la1.1-qssi12-dev/20221208/202212081841-1724

#4 - 2022-12-09 14:19 - CDTS_TEST 王成

- Assignee changed from CDTS_TEST 王成 to 移动测试一组_CDTS 刘强

logcat -b events | grep boot_progress 看最后那个时间 用现在的user版和这个VB版本各跑5次 对比一下看是不是提升了1.6s（触摸优化1.2s display芯片优化了400ms）左右。没优化的版本kernel到enable_screen花的时间大概11-12秒，优化后大概在9.8-10秒左右

#5 - 2022-12-12 15:02 - 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-龚元祝

验证版本：1724_FlatBuild_HH_VX1_MCE_FSE.M.D.user.01.00.X101.202212082110

验证结果：验证失败，该版本烧机启动后，触控无法使用

#6 - 2022-12-13 18:33 - CD SYSTEM-龚元祝

- Status changed from VERIFY_FAILED to RESOLVED

- Assignee changed from CD SYSTEM-龚元祝 to 移动测试一组_CDTS 刘强

请用下面这个VB验证一下VC1和VX1的触摸屏是否能正常使用：

/Pre_figure/VerifyBuild/Pre_figure_turbox-c2130c-la1.1-qssi12-dev/20221213/202212131605-1776

如果不能正常使用，请在开机后抓取如下log：

adb root
adb shell dmesg > d.txt
adb logcat > l.txt

#7 - 2022-12-13 19:53 - 移动测试一组_CDTS 刘强

- File d.txt added

- File l.txt added

- Assignee changed from 移动测试一组_CDTS 刘强 to CD SYSTEM-龚元祝

验证失败，设备烧机后，屏幕亮了，但是没有任何画面，点击屏幕也没有反应
抓取了以下日志：
adb shell dmesg > d.txt
adb logcat > l.txt

#8 - 2022-12-14 18:41 - CD SYSTEM-龚元祝
- Category set to SYSTEM

#9 - 2022-12-15 18:50 - CD SYSTEM-龚元祝
- Category deleted (SYSTEM)
- Assignee changed from CD SYSTEM-龚元祝 to 移动测试一组_CDTS 刘强

请用下面的VB验证开机时间。
/Pre_figure/VerifyBuild/Pre_figure_turbox-c2130c-la1.1-qssi12-dev/20221215/202212151447-1818

#10 - 2022-12-19 11:09 - 移动测试一组_CDTS 刘强

vb验证通过：之前版本在11.52s左右
01-01 08:09:30.298 658 658 | boot_progress_start: 5429
01-01 08:09:30.758 658 658 | boot_progress_preload_start: 5889
01-01 08:09:31.738 658 658 | boot_progress_preload_end: 6869
01-01 08:09:31.990 1499 1499 | boot_progress_system_run: 7121
01-01 08:09:32.793 1499 1499 | boot_progress_pms_start: 7924
01-01 08:09:32.871 1499 1499 | boot_progress_pms_system_scan_start: 8002
01-01 08:09:33.263 1499 1499 | boot_progress_pms_data_scan_start: 8394
01-01 08:09:33.267 1499 1499 | boot_progress_pms_scan_end: 8398
01-01 08:09:33.321 1499 1499 | boot_progress_pms_ready: 8452
12-15 15:22:41.601 1499 1499 | boot_progress_ams_ready: 9166
12-15 15:22:42.412 1499 1578 | boot_progress_enable_screen: 9978

#11 - 2022-12-19 11:12 - IoT scm

Gerrit Merge Information :

ID	Project	Branch	Uploader
168624	general/platform/vendor/opensource/ display-drivers	Pre_figure_turbox-c2130c-la1.1-vendor-dev	gongyz1203@thundersoft.com
SYSTEM:PERFORMANCE: max96755,cyttsp7 and atmel_mxt driver changed to ko. 1/31 max96755 cyttsp7 atmel_mxt driver changed to ko.2 insmod them in early-init.3 shorten boot time about 1.6s.TC-RID: 1200-0800202IssueID: TS-R-DF-114334Change-Id: Id9319d398a51002e74782e508706a71ce11a9d70			

#12 - 2022-12-19 11:12 - IoT scm

Gerrit Merge Information :

ID	Project	Branch	Uploader

168261	general/kernel/msm-4.19	Pre_figure_turbox-c2130c-la1.1-vendor-dev	gongyz1203@thundersoft.com
SYSTEM:PERFORMANCE: cyttsp7 and atmel_mxt driver changed to ko. 3/31 cyttsp7 and atmel_mxt driver changed to ko.2 insmod them in early-init.3 shorten boot time about 1.6s.TC-RID: 1200-0800202IssueID: TS-R-DF-114334Change-Id: I7e6a9f7169969d7796f3b0c2aaebb366214fc6f0			

#13 - 2022-12-19 11:12 - IoT scm

Gerrit Merge Information :

ID	Project	Branch	Uploader
170808	general/vendor/thundercomm/products/figure	Pre_figure_turbox-c2130c-la1.1-vendor-dev	gongyz1203@thundersoft.com
SYSTEM:PERFORMANCE: cyttsp7 and atmel_mxt driver changed to ko. 2/31 cyttsp7 and atmel_mxt driver changed to ko.2 insmod them in boot stage.3 shorten boot time about 1.6s.Change-Id: Ib17368e3c42632d40047e5c0ed9064751219d1feTC-RID: 1200-0800202IssueID: TS-R-DF-114334			

#14 - 2022-12-20 19:01 - IoT scm

Gerrit Merge Information :

ID	Project	Branch	Uploader
171347	general/kernel/msm-4.19	Pre_figure_turbox-c2130c-la1.1-vendor-ftm-dvt1	xiao.yu@thundersoft.com
SYSTEM:PERFORMANCE: cyttsp7 and atmel_mxt driver changed to ko. 3/31 cyttsp7 and atmel_mxt driver changed to ko.2 insmod them in early-init.3 shorten boot time about 1.6s.TC-RID: 1200-0800202IssueID: TS-R-DF-114334Change-Id: I7e6a9f7169969d7796f3b0c2aaebb366214fc6f0			

#15 - 2022-12-20 19:01 - IoT scm

Gerrit Merge Information :

ID	Project	Branch	Uploader
171283	general/vendor/thundercomm/products/figure	Pre_figure_turbox-c2130c-la1.1-vendor-ftm-dvt1	xiao.yu@thundersoft.com

SYSTEM:PERFORMANCE: cyttsp7 and atmel_mxt driver changed to ko. 2/31 cyttsp7 and atmel_mxt driver changed to ko.2 insmod them in boot stage.3 shorten boot time about 1.6s.Change-Id: Ib17368e3c42632d40047e5c0ed9064751219d1feTC-RID: 1200-0800202IssueID: TS-R-DF-114334

#16 - 2022-12-20 19:01 - IoT scm

Gerrit Merge Information :

ID	Project	Branch	Uploader
171284	general/platform/vendor/opensource/ display-drivers	Pre_figure_turbox-c2130c-la1.1-vendor-ftm-dvt1	xiao.yu@thundersoft.com
SYSTEM:PERFORMANCE: max96755,cyttsp7 and atmel_mxt driver changed to ko. 1/31 max96755 cyttsp7 atmel_mxt driver changed to ko.2 insmod them in early-init.3 shorten boot time about 1.6s.TC-RID: 1200-0800202IssueID: TS-R-DF-114334Change-Id: Id9319d398a51002e74782e508706a71ce11a9d70			

#17 - 2022-12-21 19:34 - 移动测试一组_CDTS 刘强

- Status changed from RESOLVED to VERIFIED

测试版本：FlatBuild_HH_VX1_MCE_FSE.M.R.userdebug.01.00.0060.X101

验证结果：对比修改之前11.67s，缩短约1.8s

λ aadb logcat -e events | grep boot_progress

waiting for device -

01-01 08:07:36.293 660 660 I boot_progress_start: 5170
01-01 08:07:36.773 660 660 I boot_progress_preload_start: 5650
01-01 08:07:37.932 660 660 I boot_progress_preload_end: 6809
01-01 08:07:38.219 1519 1519 I boot_progress_system_run: 7096
01-01 08:07:38.824 1519 1519 I boot_progress_pms_start: 7701
01-01 08:07:38.903 1519 1519 I boot_progress_pms_system_scan_start: 7780
01-01 08:07:39.276 1519 1519 I boot_progress_pms_data_scan_start: 8153
01-01 08:07:39.278 1519 1519 I boot_progress_pms_scan_end: 8155
01-01 08:07:39.335 1519 1519 I boot_progress_pms_ready: 8213
12-20 17:06:04.833 1519 1519 I boot_progress_ams_ready: 9154
12-20 17:06:05.457 1519 1597 I boot_progress_enable_screen: 9778

#18 - 2022-12-21 19:34 - 移动测试一组_CDTS 刘强

- Status changed from VERIFIED to CLOSED

#19 - 2022-12-27 16:30 - 移动测试一组_CDTS 刘强

- Category set to BSP

#20 - 2023-01-12 22:43 - 移动测试一组_CDTS 刘强

- Status changed from CLOSED to New

该修改会导致偶现触控不可用问题，因此reopen

#21 - 2023-01-12 22:43 - 移动测试一组_CDTS 刘强
- Assignee changed from 移动测试一组_CDTS 刘强 to CD SYSTEM-胡兵

#22 - 2023-01-13 15:07 - CD SYSTEM-胡兵
- Assignee changed from CD SYSTEM-胡兵 to CD BSP-杜磊

#23 - 2023-01-18 16:56 - CD BSP-杜磊
- % Done changed from 0 to 40

当前优先优化VC1 touch开机时间问题

#24 - 2023-01-31 13:58 - CD BSP-杜磊
- Due date changed from 2022-12-24 to 2023-02-07

#25 - 2023-02-02 17:14 - CD BSP-杜磊

当前状态：

VX1 优化后：

01-01 08:30:13.285 665 665 | boot_progress_start: 6135
01-01 08:30:13.728 665 665 | boot_progress_preload_start: 6578
01-01 08:30:14.596 665 665 | boot_progress_preload_end: 7445
01-01 08:30:14.787 1517 1517 | boot_progress_system_run: 7637
01-01 08:30:15.224 1517 1517 | boot_progress_pms_start: 8073
01-01 08:30:15.310 1517 1517 | boot_progress_pms_system_scan_start: 8159
01-01 08:30:15.850 1517 1517 | boot_progress_pms_data_scan_start: 8699
01-01 08:30:15.853 1517 1517 | boot_progress_pms_scan_end: 8702
01-01 08:30:15.922 1517 1517 | boot_progress_pms_ready: 8771
01-30 20:21:47.730 1517 1517 | boot_progress_ams_ready: 9648
01-30 20:21:48.610 1517 1604 | boot_progress_enable_screen: 10529

DB版本优化前：

01-01 08:05:44.304 666 666 | boot_progress_start: 7408
01-01 08:05:44.759 666 666 | boot_progress_preload_start: 7863
01-01 08:05:45.603 666 666 | boot_progress_preload_end: 8707
01-01 08:05:45.802 1518 1518 | boot_progress_system_run: 8906
01-01 08:05:46.226 1518 1518 | boot_progress_pms_start: 9330
01-01 08:05:46.312 1518 1518 | boot_progress_pms_system_scan_start: 9416
01-01 08:05:46.838 1518 1518 | boot_progress_pms_data_scan_start: 9942
01-01 08:05:46.840 1518 1518 | boot_progress_pms_scan_end: 9944
01-01 08:05:46.904 1518 1518 | boot_progress_pms_ready: 10008
02-01 10:51:38.633 1518 1518 | boot_progress_ams_ready: 10799
02-01 10:51:39.533 1518 1611 | boot_progress_enable_screen: 11699

#26 - 2023-02-06 16:22 - CD BSP-杜磊
- Status changed from New to NEED_INFO
- Assignee changed from CD BSP-杜磊 to 移动测试一组_CDTS 刘强

刘强，

帮忙用VC1验证一下开机时间是否达标，由于优化了Touch，所有要验证touch反复重启后是否能正常工作

ftp://cdiot@192.168.87.46/Pre_figure/VerifyBuild/Pre_figure_turbox-c2130c-la1.1-qssi12-dev/20230203/202302032005-2450/FlatBuild_HH_VX1_MCE_FSE.M.D.user.01.00.X101.202302032238.zip

谢谢

#27 - 2023-02-06 20:25 - 移动测试一组_CDTs 刘强

- Status changed from NEED_INFO to ASSIGNED

- Assignee changed from 移动测试一组_CDTs 刘强 to CD BSP-杜磊

验证版本：FlatBuild_HH_VX1_MCE_FSE.M.D.user.01.00.X101.202302032238

验证结果：开机时间对比之前11.52s，优化约1.7s

01-01 08:00:07.658 672 672 I boot_progress_start: 5420

01-01 08:00:08.105 672 672 I boot_progress_preload_start: 5868

01-01 08:00:08.908 672 672 I boot_progress_preload_end: 6670

01-01 08:00:09.095 1505 1505 I boot_progress_system_run: 6858

01-01 08:00:09.568 1505 1505 I boot_progress_pms_start: 7330

01-01 08:00:09.652 1505 1505 I boot_progress_pms_system_scan_start: 7415

01-01 08:00:10.168 1505 1505 I boot_progress_pms_data_scan_start: 7930

01-01 08:00:10.171 1505 1505 I boot_progress_pms_scan_end: 7933

01-01 08:00:10.255 1505 1505 I boot_progress_pms_ready: 8018

02-03 20:55:50.687 1505 1505 I boot_progress_ams_ready: 8859

02-03 20:55:51.553 1505 1604 I boot_progress_enable_screen: 9725

重启验证：目前断电重启32次，未复现触控不可用情况

#28 - 2023-02-08 20:53 - IoT scm

Gerrit Merge Information：

ID	Project	Branch	Uploader
177177	general/kernel/msm-4.19	Pre_figure_turbox-c2130c-la1.1-vendor-dev	dulie0503@thundersoft.com
BSP:TP: Optimize VC1 touch startup timeOptimize VC1 touch startup timeTC-RID: 1201-0100401IssueID: TS-R-DF-114334Change-Id: I3d82c320b258c901aee6c6394dad376306c0de74			

#29 - 2023-02-10 14:03 - CD BSP-杜磊

Hi,刘强，

帮忙验证一下这个VB版本，VX1的Touch 开机时间和反复重启后能否正常使用，热插拔。

ftp://cdiot@192.168.87.46/Pre_figure/VerifyBuild/Pre_figure_turbox-c2130c-la1.1-qssi12-dev/20230209/202302091941-2529

#30 - 2023-02-10 16:44 - CD BSP-杜磊

- Subject changed from 需要把TP的驱动ko化，以优化1.2s的开机时间。 to 【BSP】【Touch】【EVT】需要把TP的驱动ko化，以优化1.2s的开机时间。

#31 - 2023-02-14 11:10 - CDTs-TEST 周婷

- Due date changed from 2023-02-07 to 2023-02-15

#32 - 2023-02-14 13:54 - CD BSP-杜磊

- Status changed from ASSIGNED to NEED_INFO

- Assignee changed from CD BSP-杜磊 to 移动测试一组_CDTs 刘强

- % Done changed from 40 to 60

#33 - 2023-02-15 14:46 - 移动测试一组_CDTs 刘强

- Status changed from NEED_INFO to ASSIGNED

验证版本：http://cdiot@192.168.87.46/Pre_figure/VerifyBuild/Pre_figure_turbox-c2130c-la1.1-qssi12-dev/20230209/202302091941-2529

开机时间VC1 板子：

从上电开始-屏幕亮屏出现开机动画耗时：13.91s

从上电开始-到进入操作界面=44.36s；其中开机动画占约30s，因此，合计开机时间约14s左右，目前符合要求，等后续开机动画正式版本

λ adb logcat -b all | grep boot_progress

01-01 11:06:05.312 664 664 I boot_progress_start: 5623

01-01 11:06:05.794 664 664 I boot_progress_preload_start: 6105

01-01 11:06:06.826 664 664 I boot_progress_preload_end: 7137

01-01 11:06:07.103 1497 1497 I boot_progress_system_run: 7414

01-01 11:06:07.540 1497 1497 I boot_progress_pms_start: 7852

01-01 11:06:07.627 1497 1497 I boot_progress_pms_system_scan_start: 7938

01-01 11:06:08.101 1497 1497 I boot_progress_pms_data_scan_start: 8413

01-01 11:06:08.103 1497 1497 I boot_progress_pms_scan_end: 8415

01-01 11:06:08.164 1497 1497 I boot_progress_pms_ready: 8475

02-09 21:28:02.651 1497 1497 I boot_progress_ams_ready: 9258

02-09 21:28:03.437 1497 1599 I boot_progress_enable_screen: 10044

开机时间VX1：

从上电开始-屏幕亮屏出现开机动画耗时：14.16s

从上电开始-到进入操作界面=44.50s；其中开机动画占约30s，因此，合计开机时间约14s左右，目前符合要求，等后续开机动画正式版本

liuqiang0703@xp027325 ~

λ adb logcat -b all | grep boot_progress

waiting for device -

01-01 08:00:08.294 669 669 I boot_progress_start: 5975

01-01 08:00:08.715 669 669 I boot_progress_preload_start: 6395

01-01 08:00:09.726 669 669 I boot_progress_preload_end: 7406

01-01 08:00:09.965 1512 1512 I boot_progress_system_run: 7645

01-01 08:00:10.463 1512 1512 I boot_progress_pms_start: 8144

01-01 08:00:10.554 1512 1512 I boot_progress_pms_system_scan_start: 8234

01-01 08:00:10.973 1512 1512 I boot_progress_pms_data_scan_start: 8653

01-01 08:00:10.975 1512 1512 I boot_progress_pms_scan_end: 8656

01-01 08:00:11.032 1512 1512 I boot_progress_pms_ready: 8712

02-09 21:28:02.713 1512 1512 I boot_progress_ams_ready: 9549

02-09 21:28:03.442 1512 1588 I boot_progress_enable_screen: 10278

综上目前开机时间符合要求，等正式开机动画合入

#34 - 2023-02-15 14:46 - 移动测试一组_CDTs 刘强

- Assignee changed from 移动测试一组_CDTs 刘强 to CD BSP-杜磊

Gerrit Merge Information :

ID	Project	Branch	Uploader
178194	general/kernel/msm-4.19	Pre_figure_turbox-c2130c-la1.1-vendor-dev	dulei0503@thundersoft.com
BSP:TP: Optimize VX1 touch startup timeOptimize VX1 touch startup timeTC-RID: 1201-0100401IssueID: TS-R-DF-114334Change-Id: Ic5ae10722d949a6e990b38c5cd5f11e17c8e294b			

此问题已fix， 代码已入库，请close此任务。

- Status changed from ASSIGNED to RESOLVED
- Assignee changed from CD BSP- 杜磊 to 移动测试一组_CDTS 刘强
- % Done changed from 60 to 100
- Resolution changed from -- to FIXED
- Root cause set to 驱动加载冗余，增加了开机时长

- Status changed from RESOLVED to VERIFIED

验证版本：FlatBuild_HH_VX1_MCE_FSE.M.R.user.01.00.0075.X101
验证结果：从上电至亮屏14s左右，进入操作界面约44s，满足15s内的要求

- Status changed from VERIFIED to CLOSED

Files			
d.txt	482 KB	2022-12-13	移动测试一组_CDTS 刘强
l.txt	2.78 MB	2022-12-13	移动测试一组_CDTS 刘强