

Figure - Bug #111348

测试 Test-IT # 110867 (New): V1.0测试功能汇总

测试 Test-IT # 110879 (New): BSP-BVT测试-QFIL刷机

【BSP】【EVT】【系统升级】【单板必现】QFIL刷机结束后，不能自动开机

2022-08-18 15:56 - SZTS_TEST 邹涛

Status:	CLOSED	Start date:	2022-08-18
Priority:	High	Due date:	
Assignee:	SZTS_TEST 邹涛	% Done:	60%
Category:	SYSTEM	Estimated time:	0.00 hour
Target version:	VX1_MCE_FSE_V3.0_update_20221115	Found Version:	0.0.0.20220818_alpha_004
Need_Info:	--	Degrated:	--
Resolution:	--	Verified Version:	
Severity:	Major	Fixed Version:	
Reproducibility:	Every time	Root cause:	
Test Type:	Bring Up Test		
Description			
前置条件：			
1、 DUT各模块功能正常且处于9008状态			
操作步骤：			
1、 使用QFIL刷机工具烧录0817刷机包			
2、 刷机结束后查看板子是否自动开机			
实际结果：			
1、 QFIL刷机结束后，板子不会自动开机；需要手动插拔下DC才能启动			
预期结果：			
1、 刷机结束后，板子可以正常开机			

History

#1 - 2022-08-31 13:00 - CD SYSTEM-赵正军
- Assignee changed from SZ 系统-张丽果 to CD SYSTEM-赵正军

从现有log看 DDR在sbl阶段没有初始化成功
目前本地完整编译Figure代码，qfile刷机，设备也无法启动。log也是提示DDR 未初始化成功
但是xbl替换成服务器版本中的xbl.elf xbl_config.elf则能正常启动，两个现象可能是同一个原因引起，需再进一步分析

#2 - 2022-08-31 13:00 - CD SYSTEM-赵正军
- % Done changed from 0 to 20

#3 - 2022-09-13 18:29 - CD SYSTEM-赵正军

目前ddr的初始化失败都在xbl阶段,需要先确认XBL是否可用SV1的xbl代码

[14:12:06]B - 16737607 - Frequency = 1805 MHz
[14:12:06]B - 16737637 - DDR: End of DDR Training Init
[14:12:06]D - 16194981 - do_ddr_training, Delta
[14:12:06]D - 885 - sbl1_save_ddr_training_data

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[14:12:06]D - 16201875 - sbl1_do_ddr_training
[14:12:06]D - 0 - sbl1_hand_control_to_devprog_ddr
[14:12:06]B - 16765423 - Mem dump cmd, entry
[14:12:06]D - 0 - Mem dump cmd, exit
[14:12:06]B - 16773200 - Error code 84 at ddr_external_api.c Line 417
[14:12:06]B - 16776403 - ^^^^ - Printing Call Stack -^^^^
[14:12:06]B - 16781954 - func_addr : 1481DD60
[14:12:06]B - 16786315 - func_addr : 148295A4
[14:12:06]B - 16789975 - func_addr : 14823D50
[14:12:06]B - 16793666 - func_addr : 14823E0C
[14:12:06]B - 16797326 - func_addr : 14824358
[14:12:06]B - 16800986 - func_addr : 1481584C
[14:12:06]B - 16804646 - ^^^^^ - Done Printing -^^^^
[14:12:06]B - 16808306 - sbl_error_handler FAIL: DDR not initialized
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#4 - 2022-09-14 12:12 - CD TPM-申艳艳
- Category changed from BSP to SYSTEM

#5 - 2022-09-15 12:56 - CD SYSTEM-赵正军

目前考虑DDR频率偏高导致DDR异常,当前方案调整频率到 1666 MHz,还请用出现问题的硬件以及 出现问题的软件版本(替换附件的xbl.elf/xbl_config.elf文件刷机)验证.

替换路径:

DailyBuild_path/ufs/xbl.elf

DailyBuild_path/ufs/xbl_config.elf

同时需要确认xbl代码,因为特殊原因目前xbl使用的SV1项目的xbl代码, 需要确认下当前使用的ddr是否有在SV1基线的PVL验证列表里面

期望启动日志有如下关键log

*B - 16779819 - Frequency = 1666 MHz *

B - 552965 - do_ddr_training, Start

B - 584685 - DDR: LIB Ip5 Start of DDR Training Init

B - 16610727 - TRAINING TIME PER FUNCTION: GROUP=PLL Pre-Cal,NAME=PLL Precal,CALL_COUNT=7,TOTAL_TIME(us)=84853

B - 16616491 - TRAINING TIME PER FUNCTION: GROUP=DCC Monitor,NAME=WCK DCC Monitor,CALL_COUNT=4,TOTAL_TIME(us)=465919

B - 16626678 - TRAINING TIME PER FUNCTION: GROUP=DCC Monitor2,NAME=DRAM DCC,CALL_COUNT=1,TOTAL_TIME(us)=76219

B - 16637384 - TRAINING TIME PER FUNCTION: GROUP=DCC Monitor3,NAME=RDT4 DCC Monitor,CALL_COUNT=4,TOTAL_TIME(us)=410042

B - 16647479 - TRAINING TIME PER FUNCTION: GROUP=RCW,NAME=RCW CDC/Full Cycle Sweep,CALL_COUNT=1,TOTAL_TIME(us)=81160

B - 16658368 - TRAINING TIME PER FUNCTION: GROUP=LowSpeed DIT,NAME=tWCK2DQI (DIT),CALL_COUNT=1,TOTAL_TIME(us)=1708

B - 16669073 - TRAINING TIME PER FUNCTION: GROUP=Read,NAME=DQ PBIT,CALL_COUNT=1,TOTAL_TIME(us)=244397

B - 16679596 - TRAINING TIME PER FUNCTION: GROUP=Read,NAME=Global Vref CDC-2D,CALL_COUNT=2,TOTAL_TIME(us)=2129175

B - 16688990 - TRAINING TIME PER FUNCTION: GROUP=Read,NAME=Local Vref CDC-2D,CALL_COUNT=1,TOTAL_TIME(us)=3818295

B - 16699421 - TRAINING TIME PER FUNCTION: GROUP=Read,NAME=RDQS CDC CF,CALL_COUNT=4,TOTAL_TIME(us)=113888

B - 16709821 - TRAINING TIME PER FUNCTION: GROUP=HighSpeed DIT,NAME=DIT - Periodic Training,CALL_COUNT=4,TOTAL_TIME(us)=4851

B - 16719520 - TRAINING TIME PER FUNCTION: GROUP=Write,NAME=DRAM_LP5_WR_Vref,CALL_COUNT=2,TOTAL_TIME(us)=1747925

B - 16730958 - TRAINING TIME PER FUNCTION: GROUP=Write,NAME=LP5_WR_CPY_DVref_Upr_FSP,CALL_COUNT=6,TOTAL_TIME(us)=854

B - 16741328 - TRAINING TIME PER FUNCTION:
GROUP=Write,NAME=PHY_Trn_LP5_WR_DCC_CDC,CALL_COUNT=5,TOTAL_TIME(us)=5618130

B - 16752033 - TRAINING TIME PER FUNCTION: GROUP=Write,NAME=Low Freq DQ CDC perbit,CALL_COUNT=4,TOTAL_TIME(us)=1213169

B - 16762861 - TRAINING TIME TOTAL(us): 16010585

B - 16779819 - Frequency = 1666 MHz

B - 16779849 - DDR: End of DDR Training Init

#6 - 2022-09-15 12:57 - CD SYSTEM-赵正军

- Status changed from New to ASSIGNED
- Assignee changed from CD SYSTEM-赵正军 to SZTS_TEST 邹涛
- % Done changed from 20 to 60

#7 - 2022-09-15 12:58 - CD SYSTEM-赵正军

- File xbl.elf added
- File xbl_config.elf added

#8 - 2022-09-15 18:06 - CDTS-TEST 周婷

- Target version set to VX1_MCE_FSE_V1.0_update_20220925

#9 - 2022-09-16 11:18 - SZTS_TEST 邹涛

- File Serial-COM119_20220916110305.log added

使用修改过硬件gpio的板子
0818号DB解压后替换成上面的xbl和config文件
使用qfil刷机，刷机结束后查看能板子不能正常启动

#10 - 2022-09-16 15:54 - SZTS_TEST 邹涛
- File Serial-COM119_20220916151802.log added
- File 中科创达软件股份有限公司20220916-155241.jpg added
- File 中科创达软件股份有限公司20220916-155308.jpg added

0916号DB版本验证，使用qfil刷机，小概率出现刷机结束后设备起不来
0916号DB版本替换掉xbl和config文件后，使用qfil刷机，小概率出现刷机结束后设备起不来

因此替换xbl的修改方式未修复该问题，请研发继续跟进分析解决；谢谢

#11 - 2022-09-19 13:43 - SZTS_TEST 邹涛
- Assignee changed from SZTS_TEST 邹涛 to CD SYSTEM-赵正军

#12 - 2022-09-26 14:08 - 物联网项目组-RD3_CDTS 周飞
- Target version changed from VX1_MCE_FSE_V1.0_update_20220925 to VX1_MCE_FSE_V2.0_20220930

#13 - 2022-09-26 16:27 - CD SYSTEM-赵正军
- Assignee changed from CD SYSTEM-赵正军 to SZTS_TEST 邹涛

因目前硬件有部分改动，同时我这的板子无法复现，还请测试用问题复现高的主板跟踪测试几个版本

#14 - 2022-09-27 16:22 - CDTS-TEST 周婷
- Severity changed from Critical to Major

优先级放低，不作为0930 必须fix bug 交付

#15 - 2022-09-28 18:10 - SZTS_TEST 邹涛
- Assignee changed from SZTS_TEST 邹涛 to CD SYSTEM-赵正军
- Target version changed from VX1_MCE_FSE_V2.0_20220930 to VX1_MCE_FSE_V2.0_update_20221012

#16 - 2022-10-11 09:55 - CD SYSTEM-赵正军
- Status changed from ASSIGNED to NEED_INFO
- Assignee changed from CD SYSTEM-赵正军 to SZTS_TEST 邹涛

此问题依赖基线升级，经内部讨论这次版本暂不释放
同时还请测试同事继续跟踪DB是否有此问题

#17 - 2022-10-11 14:04 - CDTS_TEST 王成
- Target version changed from VX1_MCE_FSE_V2.0_update_20221012 to VX1_MCE_FSE_V3.0_20221030

#18 - 2022-10-12 11:31 - SZTS_TEST 邹涛

release分支1011号userdebug版本，使用qfil刷机大概10多次后，出现一次刷机结束后板子没正常启动

#19 - 2022-10-12 11:32 - SZTS_TEST 邹涛

- File Serial-COM119_20221012104141.log added
- File 中科创达软件股份有限公司20221012-113159.jpg added

#20 - 2022-10-12 11:37 - SZTS_TEST 邹涛

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

#21 - 2022-10-19 14:10 - CD SYSTEM-胡兵

需要在最新的基线版本上进行复测，等待最新基线版本

#22 - 2022-10-21 18:27 - SZTS_TEST 邹涛

evt2样机24台，烧录release分支1014号userdebug版本，未复现qfil刷机结束后不能正常起来的情况。后续版本继续跟踪

#23 - 2022-10-25 15:38 - CDTS-TEST 周婷

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

请继续跟踪

#24 - 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

更换版本基线后再次验证

#25 - 2022-11-04 17:55 - SZTS_TEST 邹涛

- Status changed from NEED_INFO to RESOLVED

1104号DB-userdebug版本验证qfil刷机10次，未复现。已跟踪多个版本和多块版本上验证问题未复现，先关闭该bug，后续遇到在重新提交bug跟踪

#26 - 2022-11-04 17:55 - SZTS_TEST 邹涛

- Status changed from RESOLVED to VERIFIED

#27 - 2022-11-04 17:55 - SZTS_TEST 邹涛

- Status changed from VERIFIED to CLOSED

Files

Serial-COM119_20220818133045_QFIL刷机不能自动起来需要手动断电.log	716 KB	2022-08-18	SZTS_TEST 邹涛
Serial-COM119_20220818151223_shuaji 起不来.log	1.02 MB	2022-08-18	SZTS_TEST 邹涛
xbl.elf	3.32 MB	2022-09-15	CD SYSTEM-赵正军

xbl_config.elf	96.1 KB	2022-09-15	CD SYSTEM-赵正军
Serial-COM119_20220916110305.log	10.3 KB	2022-09-16	SZTS_TEST 邹涛
Serial-COM119_20220916151802.log	1.16 MB	2022-09-16	SZTS_TEST 邹涛
中科创达软件股份有限公司20220916-155241.jpg	544 KB	2022-09-16	SZTS_TEST 邹涛
中科创达软件股份有限公司20220916-155308.jpg	643 KB	2022-09-16	SZTS_TEST 邹涛
Serial-COM119_20221012104141.log	2.1 MB	2022-10-12	SZTS_TEST 邹涛
中科创达软件股份有限公司20221012-113159.jpg	207 KB	2022-10-12	SZTS_TEST 邹涛