MTK工作笔记

Thursday, March 9, 2023

12:00 PM

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chenxq

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MT8163\_O1\_MP5\_V1

lunch 44

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kernel-4.9 is not clean, please run ‘make mrproper 报错的解决方法

总结一下：

遇上这种错误的解决方法：

1、运行make mrproper删除kernel目录下的.config

2、删除kernel顶级目录下include目录下的config这个目录，便能解决问题。

开发服务器上文件复制到公共服务器上

scp -r chenxq@192.168.12.18:/home/chenxq/mtk/mtk8163\_o/MT8163\_O1\_MP5\_V1/out/target/product/a8316/\*.img Y:\cxq

scp -r chenxq@192.168.12.18:/home/chenxq/mtk/mtk8163\_o/MT8163\_O1\_MP5\_V1/out/target/product/a8316/\*.bin Y:\cxq

scp -r chenxq@192.168.12.18:/home/chenxq/mtk/mtk8163\_o/MT8163\_O1\_MP5\_V1/out/target/product/a8316/\*.txt Y:\cxq

mtk8163\_o/MT8163\_O1\_MP5\_V1/kernel-3.18/kernel/reboot.c

A8163 AM400

光机GPIO定义路径

mtk8163\_o/MT8163\_O1\_MP5\_V1/vendor/mediatek/proprietary/bootable/bootloader/lk/platform/mt8163/dlpc343x.c

#define GPIO\_DLPC\_PROJECT\_ON         (GPIO32| 0x80000000)

参考

mtk8163\_o/MT8163\_O1\_MP5\_V1/vendor/mediatek/proprietary/bootable/bootloader/lk/platform/mt8163/dlpc2607.c

#define GPIO\_DLPC\_PROJECT\_ON (GPIO30 | 0x80000000)

dlpc\_set\_gpio\_output(GPIO\_343x\_Galvanometer,0);

mdelay(20);

mdelay(2000);

dlpc\_set\_gpio\_output(GPIO\_DLPC\_PROJECT\_DCDC,0);

mdelay(2000);

dlpc\_set\_gpio\_output(GPIO\_DLPC\_PROJECT\_ON,0);

mdelay(2000);

dlpc\_set\_gpio\_output(GPIO\_DEPC\_PROJECT\_POWER\_EN,0);

LPC\_DBG("%s dlpc pjon power off!!!\n",\_\_func\_\_);

gpio\_proj\_on 开关电源

AM400

mtk8163\_o/MT8163\_O1\_MP5\_V1/vendor/mediatek/proprietary/bootable/bootloader/lk/dev/lcm/c106\_tc358775/c106\_tc358775.c

MTK改GPIO时序

1.查看dwt文件看下GPIO的定义，有可能 GPIO默认配置成高电平或低电平，此时一通电会做GPIO初始化。

2.修改GPIO初始化

mtk8163\_o/MT8163\_O1\_MP5\_V1/vendor/mediatek/proprietary/bootable/bootloader/lk/platform/mt8163/mt\_gpio\_init.c

mt\_gpio\_set\_default\_chip()

mtk8163\_o/MT8163\_O1\_MP5\_V1/vendor/mediatek/proprietary/bootable/bootloader/preloader/platform/mt8163/src/drivers/gpio\_init.c

mt\_gpio\_set\_default\_chip()

这两个函数.

3.在platfom.c文件中的平台初始化配置想要的电平

mtk8163\_o/MT8163\_O1\_MP5\_V1/vendor/mediatek/proprietary/bootable/bootloader/lk/platform/mt8163/platform.c

4.AM关机设置GPIO电平

关机只要在kernel中设置IO即可，修改路径

mtk8163\_o/MT8163\_O1\_MP5\_V1/kernel-3.18/kernel/reboot.c

在执行关机前不管是power off 还是halt都会走函数

kernel\_shutdown\_prepare()

在这个函数中添加要设置的IO中

5.持续输出日志

有的机器进系统后不再输出日志。修改路径

mtk8163\_o/MT8163\_O1\_MP5\_V1/kernel-3.18/kernel/printk/printk.c

void mt\_disable\_uart(void)

{

    if (mt\_need\_uart\_console == 0)

        printk\_disable\_uart = 0; //1,modify to 0

}

void mt\_enable\_uart(void)

{

        if (mt\_need\_uart\_console == 1) {

            if (printk\_disable\_uart == 0)

                    return;

                printk\_disable\_uart = 0;

    }

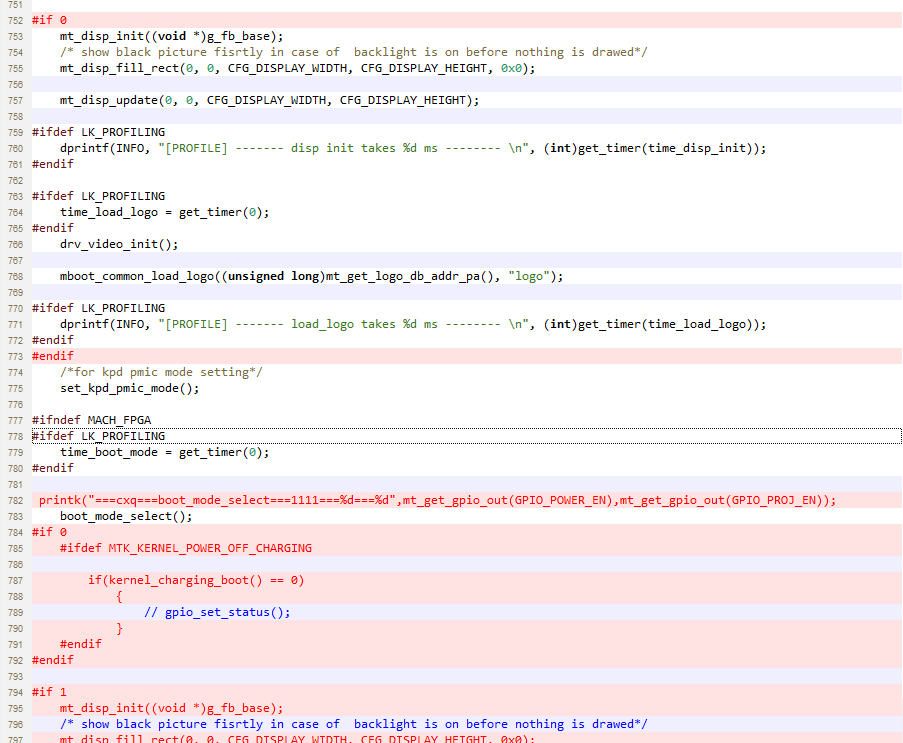
}

6.检测是否按键开机还是只充电,路径

mtk8163\_o/MT8163\_O1\_MP5\_V1/vendor/mediatek/proprietary/bootable/bootloader/lk/platform/mt8127/mt\_kernel\_power\_off\_charging.c

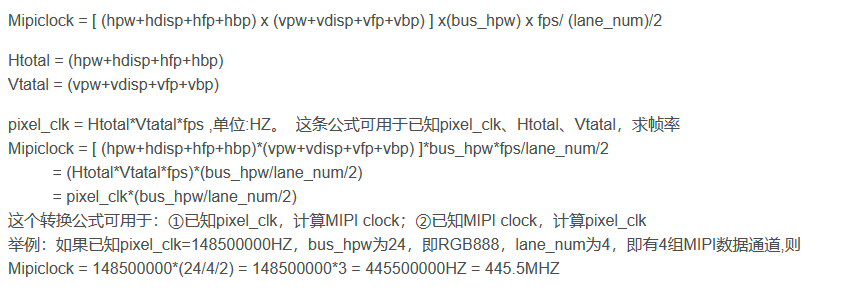
kernel\_power\_off\_charging\_detection();

7.先初始化PMIC然后再初始化LCM



8.关机前的一些操作可在这个目录中添加

mtk8163\_o/MT8163\_O1\_MP5\_V1/kernel-3.18/kernel/reboot.c



AM400默认打开OTG功能目录位置

mtk8163\_o/MT8163\_O1\_MP5\_V1/kernel-3.18/drivers/misc/mediatek/video/mt8163/dispsys/ddp\_drv.c

 //yan end

    //leung add for otg

    else if (0 == strcmp(attr->name, "usb\_otg\_enable"))

    {

        otg\_enable = (buffer[0] == '1') ? true : false;

        switch\_usb\_mode(otg\_enable);

        if(otg\_enable) {

            bq24296\_reg\_config\_interface(0x01, 0x2C);//enable otg 5v supply

            realphone\_gpio\_direction\_output(USB\_OTG\_EN,1);

        }else {

            bq24296\_reg\_config\_interface(0x01, 0x1C);//enable charging only

            realphone\_gpio\_direction\_output(USB\_OTG\_EN,0);

        }

        bq24296\_reg\_config\_interface(0x01, 0x2C);//enable otg 5v supply

        realphone\_gpio\_direction\_output(USB\_OTG\_EN,1);

    }