查阅Freescale IMX6Q的官方文档了解到有哪些资料

从支持信息的[**L4.1.15\_2.0.0\_LINUX\_DOCS**](https://www.nxp.com/webapp/Download?colCode=L4.1.15_2.0.0-LINUX-DOCS)文档中了解到bsp层、**yocto**

从其他博客了解到还有**L3.0.35\_4.1.0\_130816\_docs ltib**

**-- bsp 环境的配置**

-- ltib ubuntu 12.04

http://blog.csdn.net/girlkoo/article/details/44535979

-- ltib ubuntu 14.04

http://blog.csdn.net/huanghai381/article/details/51029157

-- yocto ubuntu 14.04

http://blog.csdn.net/cc289123557/article/details/51531822

**-- u-boot**

http://blog.csdn.net/huanghai381/article/details/51036583

my@ubuntu:~/Projects/ltib$ ./ltib -m prep -p u-boot

include/configs/mx6q\_sabresd.h

文件里可以设置一些相关配置，具体可以参考 v2，但里面很多参数都不了解

1）bootcmd=run bootcmd\_mmc参数是设置内核开启位置为emmc

snvs\_rtc snvs\_rtc.0: setting system clock to 1970-01-01 00:00:00 UTC (0)

eth0: Freescale FEC PHY driver [Generic PHY] (mii\_bus:phy\_addr=1:04, irq=-1)

2）bootargs\_mmc=setenv bootargs ${bootargs} ip=off

./build\_uboot.sh

#!/bin/sh

export ARCH=arm

export CROSS\_COMPILE=/opt/freescale/usr/local/gcc-4.6.2-glibc-2.13-linaro-multilib-2011.12/fsl-linaro-toolchain/bin/arm-none-linux-gnueabi-

make mx6q\_sabresd\_config

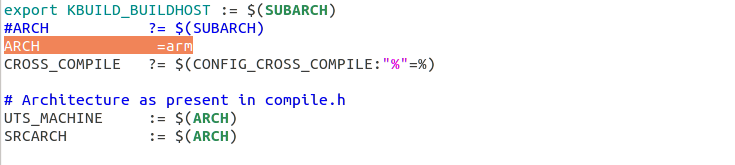
make -j8

生成 u-boot.bin

**-- kernel**

http://blog.csdn.net/girlkoo/article/details/44626011

内核根目录makefile



//内核镜像格式是uImage，因此会依赖 u-boot 编译时生成的工具——mkimage

export PATH=$PATH:~/Projects/ltib/rpm/BUILD/u-boot-2009.08/tools

配置 Makefile 的 ARCH 、 CROSS\_COMPILE 或用脚本

./build\_uImage.sh

#!/bin/sh

export ARCH=arm

export CROSS\_COMPILE=/opt/freescale/usr/local/gcc-4.6.2-glibc-2.13-linaro-multilib-2011.12/fsl-linaro-toolchain/bin/arm-none-linux-gnueabi-

make uImage -j8

生成 uImage

Image Name: Linux-3.0.35-2666-gbdde708

Created: Wed Jun 28 14:20:45 2017

Image Type: ARM Linux Kernel Image (uncompressed)

Data Size: 3866416 Bytes = 3775.80 kB = 3.69 MB

Load Address: 10008000

Entry Point: 10008000

Image arch/arm/boot/uImage is ready

my@ubuntu:~/Projects/ltib/rpm/BUILD/linux-3.0.35$

**-- rootfs**（暂时无需修改）

找到的资料

http://blog.csdn.net/girlkoo/article/details/45463207

http://pan.baidu.com/s/1gdGQ60j#list/path=%2F

~/Projects/ltib/rootfs rootfs.jffs2 rootfs\_image

**-- MFGTool2 烧写工具**

http://blog.csdn.net/pugu12/article/details/43270469

通过这篇文章，了解MFGTool2 烧写工具的使用

然后也是通过讨论才知道是通过emmc的方式烧写的

**-- 第一次烧写 can't get kernel image**

U-Boot 2009.08 (Aug 16 2013 - 12:04:20)

CPU: Freescale i.MX6 family TO1.5 at 792 MHz

Thermal sensor with ratio = 193

Temperature: 35 C, calibration data 0x5c254269

mx6q pll1: 792MHz

mx6q pll2: 528MHz

mx6q pll3: 480MHz

mx6q pll8: 50MHz

ipg clock : 66000000Hz

ipg per clock : 66000000Hz

uart clock : 80000000Hz

cspi clock : 60000000Hz

ahb clock : 132000000Hz

axi clock : 264000000Hz

emi\_slow clock: 132000000Hz

ddr clock : 528000000Hz

usdhc1 clock : 198000000Hz

usdhc2 clock : 198000000Hz

usdhc3 clock : 198000000Hz

usdhc4 clock : 198000000Hz

nfc clock : 24000000Hz

Board: i.MX6Q-SABRESD: unknown-board Board: 0x63015 [POR ]

Boot Device: MMC

I2C: ready

DRAM: 1 GB

MMC: FSL\_USDHC: 0,FSL\_USDHC: 1,FSL\_USDHC: 2,FSL\_USDHC: 3

\*\*\* Warning - bad CRC or MMC, using default environment

In: serial

Out: serial

Err: serial

Found PFUZE100! deviceid=10,revid=21

Net: got MAC address from IIM: 00:00:00:00:00:00

FEC0 [PRIME]

Hit any key to stop autoboot: 0

PHY indentify @ 0x4 = 0x004dd072

FEC: Link is down 7949

\*\*\* ERROR: `ethaddr' not set

FEC: Link is down 7949

Wrong Image Format for bootm command

**ERROR: can't get kernel image!**

原因是上面—uboot中提到的include/configs/mx6q\_myIMX6Q.h文件