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CB2-dualcard Android Compilation Guide

Version	Autor	Checked
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Content

1.Set up the compilation environment of android

1.1 install JDK

$wget dl.cubieboard.org/software/tools/android/jdk1.6.0_45.tar.gz

Unpack :

$sudo tar -xvf jdk1.6.0_45.tar.gz

$ sudo vim ~/.bashrc

add :

JAVA_HOME=/jdk-path/jdk1.6.0_45

export JRE_HOME=/jdk-path/jdk1.6.0_45/jre

export PATH=$JAVA_HOME/bin:$JRE_HOME/bin:$PATH

jdk-paththe: path of Download unpacked JDK

Which saved enforced and verify success:

$source ~/.bashrc&&java -version

```
le@le:/work/le$ java -version
java version "1.6.0_45"
Java(TM) SE Runtime Environment (build 1.6.0_45-b06)
Java HotSpot(TM) 64-Bit Server VM (build 20.45-b01, mixed mode)
```

Pictured above prove successful

1.2 Compile the required package of installation（Ubuntu 12.04）：

$sudo apt-get update

$sudo apt-get upgrade

$sudo apt-get install build-essential u-boot-tools uboot-mkimage binutils-arm-linux-gnueabihf

$sudo apt-get install gcc g++ gcc-arm-linux-gnueabi gcc-arm-linux-gnueabihf g++-multilib

$sudo apt-get install cpp-arm-linux-gnueabihf libusb-1.0-0 libusb-1.0-0-dev wget fakeroot

$sudo apt-get install kernel-package zlib1g-dev libncurses5-dev build-essential

$sudo apt-get install texinfo texlive ccache zlib1g-dev gawk bison flex gettext uuid-dev

$sudo apt-get install ia32-libs git gnupg flex bison gperf build-essential zip

$sudo apt-get install curl libc6-dev x11proto-core-dev libx11-dev:i386 lib32ncurses5-dev

$sudo apt-get install libreadline6-dev:i386 mingw32 tofrodos python-markdown

$sudo apt-get install libxml2-utils xsltproc zlib1g-dev:i386 libgl1-mesa-dev

2.Download the package of android source code

1) github

git clone https://bitbucket.org/cubietech/a20-android4.2_lichee.git

git clone https://bitbucket.org/cubietech/a20-android4.2_android.git

2）**To download the source code package in baidu cloud:**

http://dl.cubieboard.org/model/commom/android-source/a20/A20_android.tar.gz

http://dl.cubieboard.org/model/commom/android-source/a20/A20_lichee.tar.gz

3.Kernel compilation

$ cd lichee/linux-3.4

$ sudo cp arch/arm/configs/cubieboard2_config .config

$ ./build.sh -p sun7i_android

```
 u-boot
arm-linux-gnueabi-objcopy -O srec u-boot u-boot.srec
arm-linux-gnueabi-objcopy --gap-fill=0xff -O binary u-boot u-boot.bin
make[1]:正在离开目录 `/work/le/a20-android/lichee/u-boot'
INFO: build u-boot OK.
INFO: build rootfs ...
INFO: skip make rootfs for android
INFO: build rootfs OK.
INFO: build lichee OK.
```

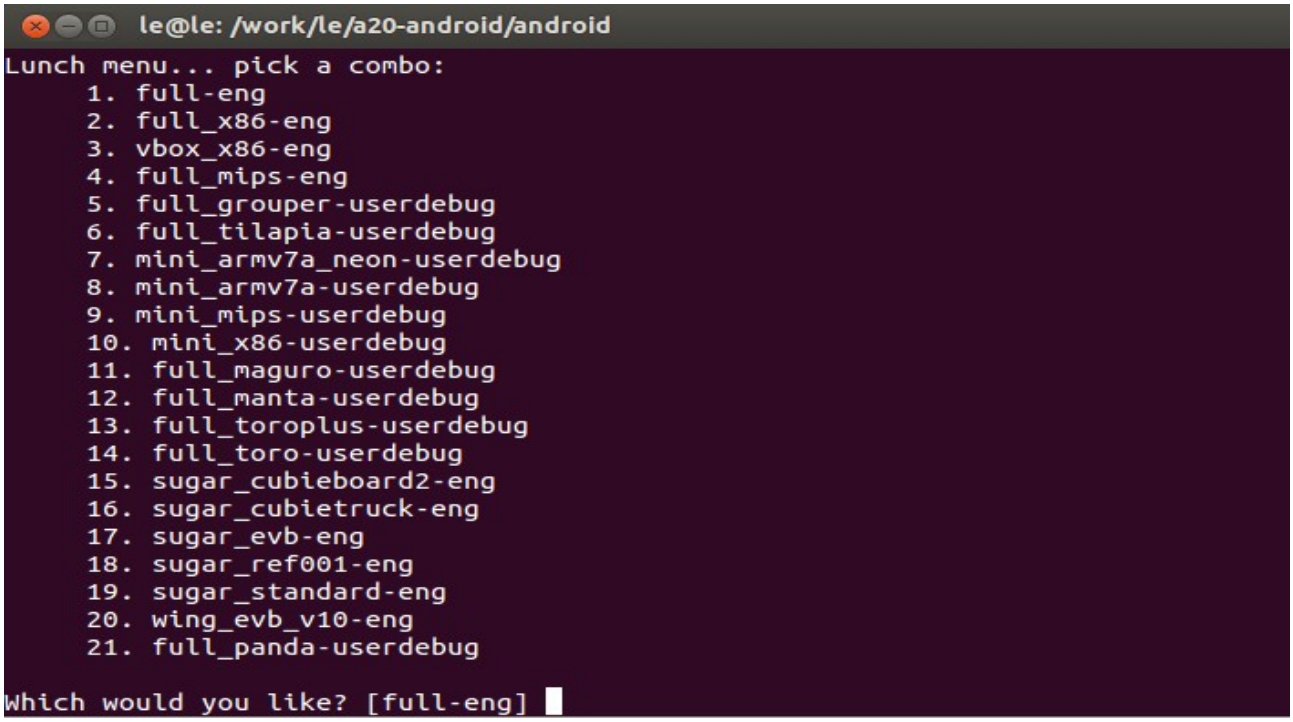
4. Compilation Android

$ cd android

$ source build/envsetup.sh

$ lunch

Type 15 (choose sugar_cubieboard2-eng)



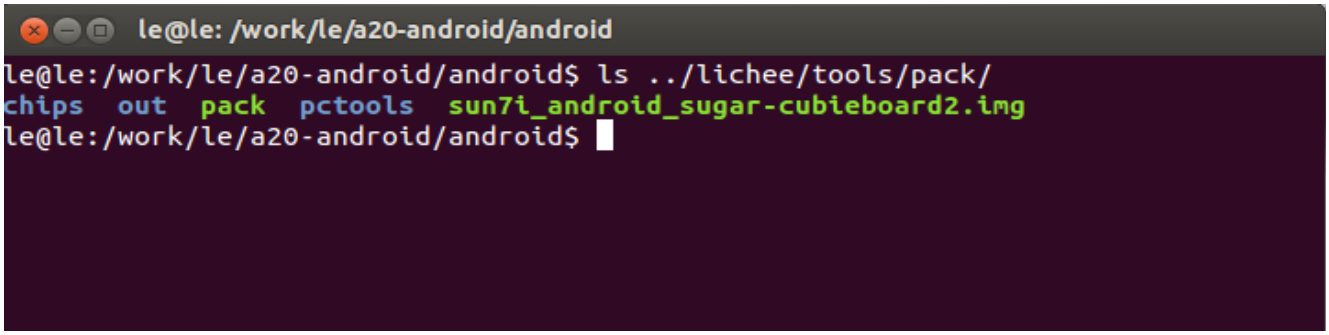
$ extract-bsp

$ make -j8

$ cp ../lichee/tools/pack/chips/sun7i/bin/boot0_sdcard_sun7i.bin ../lichee/tools/pack/chips/sun7i/bin/boot0_nand_sun7i.bin

$ pack

You can find image on lichee/tools/pack:



This is a tf card image ,you can use PhoenixCard write the image into tf card .