Cubieboard1 Android Compilation Guide

Version	Author	Checked
v0.1-init version	Payne	Aaron

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1.Set up the environment of android compilation

1.1 install JDK

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

Unpack :

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

$ sudo vim ~/.bashrc

add :

JAVA_HOME=/jdk_path

export JRE_HOME=/jdk_path/jre

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

jdk_path: the path of Download unpacked JDK

Which saved enforced and verify success:

$source ~/.bashrc&&java -version

```
le@le:~$ source ~/.bashrc&&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 the required package of Compile 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 repo

http://dl.cubieboard.org/model/commom/android-source/a10/A10-android4.0.tar.gz

3. Compilation

Unpack the source code:

$sudo tar -zxvf A10-android4.0.tar.gz

Enter the source directory:

$cd A10-android4.0/

compile :

$source build/envsetup.sh

$lunch

Type “4” to choose cubieboard-eng:

```
le@le:/work/le/A10-android4.0$ lunch

You're building on Linux

Lunch menu... pick a combo:
     1. full-eng
     2. full_x86-eng
     3. vbox_x86-eng
     4. cubieboard-eng

Which would you like? [full-eng]
```

$make

```
Creating filesystem with parameters:
    Size: 512000000
    Block size: 4096
    Blocks per group: 32768
    Inodes per group: 7824
    Inode size: 256
    Journal blocks: 1953
    Label:
    Blocks: 125000
    Block groups: 4
    Reserved block group size: 31
Created filesystem with 1233/31296 inodes and 75253/125000 blocks
Install system fs image: out/target/product/cubieboard/system.img
out/target/product/cubieboard/system.img+out/target/product/cubieboard/obj/PACKA
GING/recovery_patch_intermediates/recovery_from_boot.p total size is 302311736
le@le:/work/le/A10-android4.0$
```

Pack Image

$ tools/pack-cm.sh

```
CPlugin Free lib
CPlugin Free lib
---------image is at-------------

/work/le/A10-android4.0/tools/pack/sun4i_crane_cubieboard.img

le@le:/work/le/A10-android4.0$
```