

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
```

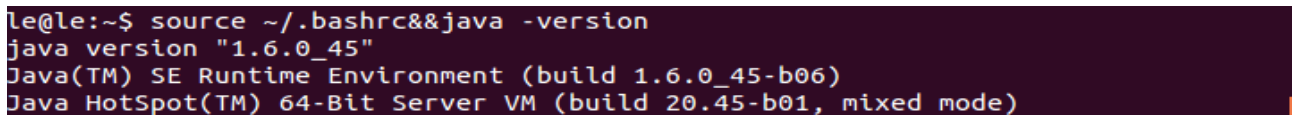
```
export JRE_HOME=/jdk_path/jre
```

```
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-gnueabi
```

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

```
$sudo apt-get install cpp-arm-linux-gnueabi 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/PACKAGING/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$
```