CUBIEBOARD
http://cubieboard.org

A80 2D desktop acceralation and hardware video decode

Cubieboard4 linaro desktop

Website:http://cubieboard.org/
Support: support@cubietech.com

Version	Author	Modification	Check
V-0.1-20150313	Sam	Init version	Aaron.K

Table of Contents

1. Summary

This docs mainly introduce how to make cubieboard4 linaro desktop support 2D Desktop acceration and hardware video decode.

2. Build image.

Get source and build image ,please refer:

http://dl.cubieboard.org/model/cc-a80/Doc/ubuntu-linaro/Cubieboard4-Linux-Sdk-Guide.pdf

Note:

Before build image, You should patch : A80_disp_colorkey_20150303.patch to make kernel support display colorke.

Download the patch and a80-xf86-video-fbturbo for 2D desktop acceralation:

http://dl.cubieboard.org/model/cca80/Source/linux/commom/a80-xf86-video-fbturbo_colorkey.tar.gz

```
sam@sam-System-Product-Name:~/Downloads$ sudo tar -zxvpf a80-xf86-video-fbturbo_colorkey.tar.gz
xf86-video-fbturbo_colorkey.tar.gz
xf86video.tar.gz
A80_disp_colorkey_20150303.patch
```

$ cp A80_disp_colorkey_20150303.patch linux-3.4
$ cd linux-3.4
$ patch -p1 > A80_disp_colorkey_20150303.patch

3. Install a80-xf86-video-fbturbo

There is two way to install : 1 Use the library drectly that we have built ; 2 Build library in cubieboard4

3.1. Use the library directly that we have built

$ sudo tar -zxvpf xf86video.tar.gz

$ cp fbturbo_drv.la fbturbo_drv.so /usr/lib/xorg/modules/drivers

$ cp xorg.conf /etc/X11/xorg.conf

3.2. Build library in cubieboard4

Install build eviroenment

tar -zxvpf xf86-video-fbturbo_colorkey.tar.gz

apt-get build-essential xorg-dev xutils-dev x11proto-dri2-dev libltdl-dev libtool automake libdrm-dev

build

#autoreconf

#-vi ./configure –prefix=/usr

#make

Install
#make install
cp xorg.conf /etc/X11/xorg.conf

4. Install vlc with video hardware decode library

4.1. Copy vlc file to cubieboard4 lubuntu systerm

vlc.tar.gz is the vlc file that have install hardware decode library basen on OpenMax , copy vlc file to /usr direction. Downloading link :

http://dl.cubieboard.org/model/cc-a80/Source/linux/commom/vlc.tar.gz

$ sudo tar -zxvpf vlc.tar.gz
$ cp -rf vlc/* /usr

4.2. Change mode

#vim /etc/udev/rules.d/50-cedar.rules

KERNEL=="cedar_dev", MODE="0766"
KERNEL=="ion", MODE="0766"