Release Note of Android (v1.4)

Summary

Release Date	Apr/10/2015 KST
Release Type	Regular release
Release Files	Self-installation Image (MD5SUM:287a55341de7e11bac62070adb56f220)

New updates

- WiFi USB dongle #4 driver is updated
  - Updated with backported Linux driver 3.18.1-1 from here
- WPS feature is verified for WiFi USB dongle #3 and #4
- CPU frequency can be selectable on ODROID Utility
  - Selected CPU frequency will be affected from next boot
  - Note: C1 wouldn't start or halt Android with overclocked frequency (1.536MHz+) if you are not lucky. In that case, you need to reflash the OS.
  - Over-clocking will be helpful to play the PPSSPP or Reicast game emulation near full speed.
- Reboot problem when power-off procedure is invoked is fixed
- Power current is reduced to about 70mA from 140mA in the power-off state.
- Fixed minor issues
- Screenshot of Android version

Update Instruction

Self Installation

You can install the release to your MicroSD or eMMC with the tool **dd** in Linux or **Win32DiskImager** in Windows. Please refer this for more detail.

Fastboot Update

Your can update the release by **fastboot** if you have MicroSD or eMMC already Android installed. If you have **USB-Serial kit**, you can enter to **Fastboot** mode when you execute the command **fastboot** on U-boot command line. Or if you run execute **reboot fastboot** from Android shell command line, your **ODROID-C1** will reboot and get into **fastboot** mode immediately. You can check if your **ODROID-C1** is attached via USB with the command **fastboot devices** in your desktop.

```
$ sudo fastboot flash bootloader u-boot.bin
$ sudo fastboot flash dtb meson8b_odroidc.dtb
$ sudo fastboot flash boot kernel
$ sudo fastboot flash recovery recovery.img
```

```
$ sudo fastboot flash logo hardkernel-720.bmp
$ sudo fastboot flash system rootsystem.img
$ sudo fastboot flash userdata userdata.img
$ sudo fastboot flash cache cache.img
$ sudo fastboot reboot
```

How to checkout

You can checkout Android source tree, please refer this page for more detail. **Please note, Android source tree is uploading and would be completed in 1-2 days.**

Android

```
$ mkdir odroid-c1
$ cd odroid-c1
$ repo init -u https://github.com/hardkernel/android.git -b
s805_4.4.2_master
$ repo sync
$ repo start s805_4.4.2_master --all
```

ODROID Utility

```
$ git clone --depth 1
https://github.com/codewalkerster/android_packages_apps_Utility.git -b
s805_4.4.2_dev_master
```

Reference boot.ini

This is the reference **boot.ini** to customize the boot configuration instead of default. You can just download it and copy into VFAT partition of your MicroSD/eMMC, it will be affected on next boot immediately. Not like Hardkernel's Ubuntu release, this **boot.ini** does not require **uImage** and **meson8b_odroidc.dtd**. This will read such files from the booting card directly.

boot.ini

```
ODROIDC-UBOOT-CONFIG

# Possible screen resolutions
# Uncomment only a single Line! The line with setenv written.
# At least one mode must be selected.

# setenv m "vga"            # 640x480
# setenv m "480p"           # 720x480
# setenv m "576p"           # 720x576
```

```
# setenv m "800x480p60hz"    # 800x480
# setenv m "800x600p60hz"    # 800x600
# setenv m "1024x600p60hz"   # 1024x600
# setenv m "1024x768p60hz"   # 1024x768
# setenv m "1360x768p60hz"   # 1360x768
# setenv m "1366x768p60hz"   # 1366x768
# setenv m "1440x900p60hz"   # 1440x900
# setenv m "1600x900p60hz"   # 1600x900
# setenv m "1680x1050p60hz"  # 1680x1050
# setenv m "720p"            # 720p 1280x720
# setenv m "800p"            # 1280x800
# setenv m "sxga"            # 1280x1024
# setenv m "1080i50hz"          # 1080I@50Hz
# setenv m "1080p24hz"          # 1080P@24Hz
# setenv m "1080p50hz"          # 1080P@50Hz
setenv m "1080p"                # 1080P@60Hz
# setenv m "1920x1200"       # 1920x1200

# HDMI/DVI Mode Configuration
setenv vout_mode "hdmi"
# setenv vout_mode "dvi"

# UHS Card Configuration
# Uncomment the line below to __DISABLE__ UHS-1 MicroSD support
# This might break boot for some brand/models of cards.
setenv disableuhs "disableuhs"

# CEC Configuration
setenv cecconfig "cecf"

# Booting
setenv bootargs "root=/dev/mmcblk0p2 rw console=ttyS0,115200n8
no_console_suspend vdaccfg=${vdac_config}
logo=osd1,loaded,${fb_addr},${outputmode},full hdmimode=${m}
cvbsmode=${cvbsmode} hdmitx=${cecconfig} vout=${vout_mode}
${disableuhs} androidboot.serialno=${fbt_id#}"
setenv bootcmd "movi read boot 0 0x12000000; movi read dtb 0
0x12800000; bootm 0x12000000 - 0x12800000"
run bootcmd
```