

Release Note of Ubuntu 16.04.3 LTS (v2.4)

Summary

Release Date	2017-09-27
Release Type	Update

File name : ubuntu64-16.04.3-mate-odroid-c2-20170927.img.xz

Note: OS will reboot on the first boot for automatic rootfs resize

New updates

- Official US West Coast: http://odroid.in/ubuntu_16.04lts
- Official US East Coast: http://east.us.odroid.in/ubuntu_16.04lts (Thanks to David Beauchamp @ ArchLinuxARM)
- Official EU Germany: http://de.eu.odroid.in/ubuntu_16.04lts
- Official Korea Mirror: <http://dn.odroid.com/S905/Ubuntu>

Kernel Updates

- Improved HDMI custom-built support
- Improved [MicroSD](#)/eMMC access.
- Change history : [C2 kernel github](#)

Userspace Update

- Kodi to 17.4 (Special thanks to [OverSun](#))
- Ubuntu to 16.04.3

The RootFS Auto-resize feature has changed!!!
Once everything is done after auto-resizing, the power will turn off automatically.
Please Wait a couple of minutes and plug/unplug the power cable when the blue LED is off.

Tips and Known issues

- [mySQL/KVM](#) needs an editing of boot.ini file to change the system timer source to ARMv8

Architecture from the Meson. But the ARMv8 timer affects the VPU/GPU system accuracy.

- NTP time syncing takes long time (sometimes around 1~2 minutes)
- CPU governor: If you want to change the CPU governor, install **cpufrequtils** and try the following commands. Don't forget to disable ondemand service.

```
$ sudo apt install cpufrequtils
# You can specify the governor as you want such as ondemand,
performance, powersave, interactive, and so on.
$ echo 'GOVERNOR="{GOVERNOR}"' | sudo tee /etc/default/cpufrequtils;
sudo update-rc.d ondemand disable; systemctl mask ondemand
$ reboot
```

- e.g. Check the CPU governor if you feel the system slowness. If it is not "performance", try..

```
$ cat /sys/devices/system/cpu/cpu0/cpufreq/scaling_governor
$ echo 'GOVERNOR="performance"' | sudo tee
/etc/default/cpufrequtils; sudo update-rc.d ondemand disable;
systemctl mask ondemand;
$ reboot
```

- Chromium browser GPU acceleration should be enabled manually. Add below line into /etc/chromium-browser/default file.

```
CHROMIUM_FLAGS=" --use-gl=egl --ignore-gpu-blacklist --disable-
accelerated-2d-canvas --num-raster-threads=2"
```

- The root file system will be resized in the first booting process. OS will reboot automatically to complete the resizing process. **This process must not be interrupted.**
- To enable Auto-login, edit /usr/share/lightdm/lightdm.conf.d/60-lightdm-gtk-greeter.conf file like this.

```
[Seat:*]
greeter-session=lightdm-gtk-greeter
autologin-user=odroid
```

Reverting to Kodi 16.1

- If Kodi 17 isn't working fine for you, you can revert to 16.1 with the following steps.

```
wget deb.odroid.in/old_kodi_c2/old_kodi.tar
tar xf old_kodi.tar
sudo dpkg -i *.deb
```

How to update the kernel and system

```
sudo apt update
sudo apt upgrade
sudo apt dist-upgrade
```

```
sudo apt install linux-image-c2
sudo reboot
```

The default boot.ini in V2.4

- Available here: https://github.com/mdrjr/c2_bootini/blob/master/boot.ini

How to checkout

The current version only provide Linux kernel and U-boot source code. Here are the instructions to checkout the source code and build. For more detail information, please visit [U-boot](#) and [Kernel](#).

This guide is only for the NATIVE BUILD.

U-boot

```
$ git clone https://github.com/hardkernel/u-boot.git -b odroidc2-v2015.01
$ cd u-boot
$ make odroidc2_config
$ make
```

Linux Kernel

```
$ git clone --depth 1 https://github.com/hardkernel/linux -b odroidc2-3.14.y
$ cd linux
$ make odroidc2_defconfig
$ make -j5
$ sudo make modules_install
$ sudo cp arch/arm64/boot/Image /media/boot
$ sudo cp arch/arm64/boot/dts/meson64_odroidc2.dtb /media/boot
```

Run “**git checkout jenkins-deb_s905_kernel-102**” command to use the same kernel tag before “make odroidc2_defconfig”.

Kodi Tips

- [Enabling Adjust Display Refresh Rate](#)
- [Enabling HDMI passthrough](#)

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http://wiki.odroid.com/odroid-c2/os_images/ubuntu/v2.4

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