

# Release Note of Ubuntu 16.04 LTS (v2.1)

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## Summary

Release Date	2017-02-20
Release Type	Update

**File name : ubuntu-16.04.2-mate-odroid-c1-20170220.img**

## New updates

- Official US West Coast: [http://odroid.in/ubuntu\\_16.04lts/](http://odroid.in/ubuntu_16.04lts/)
- Official US East Coast: [http://east.us.odroid.in/ubuntu\\_16.04lts](http://east.us.odroid.in/ubuntu_16.04lts) (Thanks to David Beauchamp @ ArchLinuxARM)
- Official EU Germany: [http://de.eu.odroid.in/ubuntu\\_16.04lts](http://de.eu.odroid.in/ubuntu_16.04lts)
- Official Korea Mirror: <http://dn.odroid.com/S805/Ubuntu>

## Kernel Updates

- New gpiomem driver for rootless GPIO access
- Add 480×800 resolution support
- CPU Over clock option up to 1.8Ghz
- Fixed LXC support
- Updated USB Network Drivers
- Updated Mali to r6p2

## Userspace Update

- Kodi updated to 17 (Special thanks to Oversun in our community forum)
- Ubuntu 16.04.2 LTS
- Updated Mali to r6p2
- Updated Chromium to 55
- Performance governor by default

## How to improve the performance

- Try 1.7Ghz or 1.8Ghz Overclock [How to Overclock ODROID-C1](#)
- Check the CPU governor.

```
cat /sys/devices/system/cpu/cpu0/cpufreq/scaling_governor
```

If it is not “performance”, try

```
echo 'GOVERNOR="performance"' | sudo tee /etc/default/cpufrequtils
```

and reboot.

## Known issues & notes

- EXT2/4 file system can not be accessible on U-boot.
- The root file system will be resized in the first booting process. OS will reboot automatically to complete the resizing process.
- Kodi requires to be manually started for HDMI Passthrough work.

```
AE_SINK=ALSA kodi
```

- 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
```

- Tons of issues not listed. 🤔

## Reverting to Kodi 16.1

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

```
sudo apt-get remove kodi kodi-bin kodi-data  
wget deb.odroid.in/old_kodi_c1/old_kodi.tar  
tar xf old_kodi.tar  
sudo dpkg -i *.deb
```

## LIRC Support

- [Support Custom Remote Controller](#)

## How to Upgrade. Don't forget dist-upgrade

```
sudo apt update  
sudo apt upgrade  
sudo apt dist-upgrade  
sudo apt install linux-image-xu3  
sudo reboot
```

## The default boot.ini in V2.1

- Available here: [https://github.com/mdrjr/c1\\_bootini/blob/master/boot.ini](https://github.com/mdrjr/c1_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 odroidc-v2011.03
$ cd u-boot
$ make odroidc_config
$ make
```

### Linux Kernel

```
$ git clone --depth 1 https://github.com/hardkernel/linux -b odroidc-3.10.y
$ cd linux
$ make odroidc_defconfig
$ make uImage modules
$ make dtbs
$ sudo make modules_install
$ sudo cp arch/arm/boot/uImage /media/boot
$ sudo cp arch/arm/boot/dts/meson8b_odroidc.dtb /media/boot
```

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Last update: **2017/07/31 03:05**

