	Welcome, <b>Guest</b> . Please l Did you miss your a			
		Forever Logi	in	
News: Check out the collection o http://www.cubieboard.cm	f Cubie images for the A20 here -	Login with username, password and session leng	Login with username, password and session length	
netp.//www.cubicbourd.cim	<u>usrea.com.sr</u>	Searc	:h	
Home Help Search Lo	igin Register			
CubieBoard Forum » Cubiebo	ard itself » Beginners » The ULTIMATE Newb Cubietruck set-up guide	e	_	
		« previous nex	ct »	
Pages: [1] 2 Go Down		PRINT		
Author	Topic: The ULTIMATE Newb Cubietruck	set-up guide (Read 21335 times)		
□ CubieNewb Newbie	The ULTIMATE Newb Cubietruck set-up gu « on: December 02, 2013, 09:46:39 PM »	aide		
Posts: 46 Karma: +5/-6	Hi everyone,			

When the Cubietruck first came out there was very little support, the Lubuntu 12.10 operating system was scant and poorly prepared before release, and many of the people around here would give answers for experts, but not for those trying to learn. For many, getting the CT up and running was an absolutely frustrating experience. This thread took the weeks of trial and error and got things up and running in about 10 minutes for the average newbie.

This thread is for the original Lubuntu 12.10 OS mentioned above - and ONLY for the CubieTruck (though some of these may work on the others). These are the quickest fixes to get the machine up and going if you require to boot from the NAND on occasion (or the microSD version if you must).

HOWEVER, thanks to the impressive work of **kava93** to make things easy and exciting for everyone, Cubieuntu is now available for the CubieTruck with very significant improvements in just about every way - and just in time for the holidays. One draw back - it's only for microSD/TF - so you can't run it on the local nand - it's found at <a href="http://www.cubieforums.com/index.php/topic,1200.0.html">http://www.cubieforums.com/index.php/topic,1200.0.html</a> - and there are still a few minor quirks, and the bluetooth still isn't supported, but using this version will save you a lot of time and hassle if you're a newb.

So if you want to get the CT set up on the NAND on Lubuntu 12.10 with the basics at least working (which you may need and want on occasion anyway), follow this thread below. Otherwise, skip straight to the above linked thread for Cubieuntu and save yourself all the hassle, headache and frustration (BTW, the user and password for Cubieuntu is "linaro" -the same as for this one).

Again, the link for Cubieuntu by Kava93 - <a href="http://www.cubieforums.com/index.php/topic,1200.0.html">http://www.cubieforums.com/index.php/topic,1200.0.html</a>

I'm sure that many (most) of you aren't interested in running Android on your CubieTruck, but the task of setting one up in Lubuntu 12.10 is daunting - hunting around for how to do stuff. And the lack of community and support around here makes it more frustrating. So I hope to save you other newbies out there a great deal of time, and help you to start enjoying your CT right away, because they really are fun - if you ever get them going before you give up from frustration.

Some of these I've still not finished, and I'll include them as I go, such as the HDD auto mounting is now giving me an issue, so I'll need help with that. I've still not fixed the "linaro" user name. I also haven't gotten the audio jack up yet when it's not on HDMI. And there a couple others, but there's a lot here to get you going in a few minutes without hunting around this forum or others for hours or days.

I would appreciate any and all's help here to make this set up thread as complete as possible.

Installing Lubuntu to Cubietruck nand - note HDMI or VGA versions.

 $http://docs.cubieboard.org/tutorials/ct1/installation/cb3\_lubuntu-12.10-desktop\_nand\_installation\_v1.00$ 

 $VGA\ Lubuntu\ is\ here:\ \underline{http://dl.cubieboard.org/software/a20-cubietruck/lubuntu/ct-lubuntu-nand-v1.00/VGA/lubuntu/ct-lubuntu-nand-v1.00/VGA/lubuntu-nand-v$ 

Lubuntu's Login PASSWORD:

Type "linaro" to gain access to the CT.

Activating / loading the Wifi module at boot up
Open a terminal and type:
Quote
#sudo modprobe bcmdhd
To load Wifi at bootup, add "bcmdhd" at the last line of file /etc/modules to activate it.
To do this, in terminal, type:
Quote
sudo vi /etc/modules
A window with vi editor will open. To edit this file use "vi" commands:
:x Exit, saving changes
:q Exit as long as there have been no changes
ZZ Exit and save changes if any have been made :q! Exit and ignore any changes
Inserting Text
i Insert before cursor
I Insert before line
a Append after cursor
A Append after line o Open a new line after current line
O Open a new line before current line
r Replace one character
R Replace many characters
Additional vi commands:
http://www.lagmonster.org/docs/vi.html
You may arrow down to the last line and then use the "INSERT" key and then I prefer to use the A – append after line. The type after the last line:
Quote
bcmdhd
Then type:
Quote
х
to save and exit.
(you may need to depress "insert" again to go in and out of edit. If you mess up the edit, see the additional vi commands to correct your mistakes. Use dd to delete extra lines, X to delete current, x to delete back, etc.)
Tonight I realized another interesting quirk that wasn't an issue before. If you can't see the icon for the wireless in the lower right down by the "no indicators" and the clock, just click on the bar next to the "no indicators" and magically the wireless connections menu pops up.

There is more here if this still gives trouble:

 $\underline{\text{http://www.cubieforums.com/index.php/topic,1187.0.html}}$ 

WPA settings, etc may be found here which expand on those on the nand install page: http://askubuntu.com/questions/138472/how-do-i-connect-to-a-wpa-wifi-network-using-the-command-line

Creating a Root Password Quote

```
sudo passwd
  Enter password: <your password>
  Repeat password: <your password>
Removing authentication for shutdown/restart
http://www.cubieforums.com/index.php/topic,925.0.html
For those using GUI:
1. Using terminal (Ixtermina or your favorite terminal emulator) type
Code:
  sudo leafpad /usr/share/polkit-1/actions/org.freedesktop.consolekit.policy
you can substitute leafpad with other text editor, like nano, gedit, etc....
2. a text editor should pop up
add these 2 line (the red lines) - (you may copy from the line in blue)
<?xml version="1.0" encoding="UTF-8"?>
<!DOCTYPE policyconfig PUBLIC
"-//freedesktop//DTD PolicyKit Policy Configuration 1.0//EN"
"http://www.freedesktop.org/standards/PolicyKit/1.0/policyconfig.dtd">
<!--
Policy definitions for ConsoleKit
<pol><policyconfig>
 <action id="org.freedesktop.consolekit.system.stop">
  <description>Stop the system</description>
  <message>System policy prevents stopping the system</message>
   <allow_inactive>no</allow_inactive>
   <allow_active>yes</allow_active>
  </defaults>
 </action>
 <action id="org.freedesktop.consolekit.system.stop-multiple-users">
  <description>Stop the system when multiple users are logged in</description>
  <message>System policy prevents stopping the system when other users are logged in</message>
  <defaults>
   <allow inactive>no</allow inactive>
   <allow_active>auth_admin_keep</allow_active>
   <allow active>yes</allow active>
  </defaults>
 </action>
 <action id="org.freedesktop.consolekit.system.restart">
  <description>Restart the system</description>
  <message>System policy prevents restarting the system</message>
  <defaults>
   <allow_inactive>no</allow_inactive>
   <allow_active>yes</allow_active>
 </action>
 <action id="org.freedesktop.consolekit.system.restart-multiple-users">
  <description>Restart the system when multiple users are logged in</description>
  <message>System policy prevents restarting the system when other users are logged in
  <defaults>
   <allow_inactive>no</allow_inactive>
   <allow_active>auth_admin_keep</allow_active>
   <allow active>yes</allow active>
  </defaults>
 </action>
```

<pre> ####################################</pre>
3. Save & close it 4. now using the terminal, type
4. Now using the terminal, type
Code:
Quote
sudo reboot
to reboot
Fixing the eth0 DHCP delay on bootup when on Wifi or when disconnected from Ethernet.
OS: Lubuntu V100 desktop for Cubietruck on nand Method #1 from this link:
http://www.cubieforums.com/index.php/topic,1080.msg6461.html#msg6461  If cubietruck has to boot without an ethernet connection there is a delay for about 60 sec until dhcp recognizes that there is no network. If we assume that modern routers will respond to a dhcp request within 5 sec, it would speed some thinks up if we change the dhcp time out.
Change the default value from 60 sec to for example 5 sec. This can be done by editing the dhclinet.conf file.  Code:  Quote
sudo nano /etc/dhcp/dhclient.conf
The line we want to change looks like this and is not active!  Code:
Quote
#timeout 60;
Change that line to a 5 sec time out period and you must remove the # to activate it.  Code:  Quote
timeout 5;
save the file by typing ^ (ctrl) X, then Y and enter
Now Cubietruck's Lubuntu Wifi should work on login.
Slow wireless problem:
If your network and wireless are really slow you may also change TCP-IP v. 6.0 settings to "ignore" to solve the broadcasting issue if you're not running it and it's clogging your network (you only use TCP-IP v4), you may go to Start > Preferences > Network Connections and open your wireless connection listed there. Click "edit" and enter your password – (by default "linaro"). Click the "IPv6 Settings" tab > Set drop down "Method:" menu to "ignore" and click save.
Sorry, I don't know the command line for this.
Change the Cubietruck boot logo, etc:

4 of 14 14-12-23 05:32 PM

Use editor of choice?

/dev/nanda

Contains the bootlogo, script.bin, uEnv.txt, uImage and so on

Change the "Linaro" user name and password:

needed.

#### Set the Date and Time (You must be logged in as root! - see above):

http://www.cyberciti.biz/faq/howto-set-date-time-from-linux-command-prompt/

Type: "su" and your above created password to enter root.

For example, set new data to 2 Oct 2006 18:00:00, type the following command as root user:

#### Quote

# date -s "2 OCT 2006 18:00:00"

OR

#### Quote

# date --set="2 OCT 2006 18:00:00"

My CT has the odd problem where the minutes and date will change, but the hour does its own thing. Any ideas?

#### Moving Rootfs From Nandflash To Hard Drive (improves performance)

http://docs.cubieboard.org/tutorials/ct1/installation/moving\_rootfs\_from\_nandflash\_to\_hard\_drive

There is also this thread which uses Tar and is said to be better than dd for doing this: http://www.cubieforums.com/index.php/topic,1147.0.html

Prepare the drive for rootfs

The drive must have a primary partition (for example with 10 GByte) formated with filesystem "ext4". You can use the Linaro user interface DISK app, gparted or use the following shell commands

list all available drives

Quote

#fdisk -

Choose the drive you want to make changes to (e.g. sda):

Quote

#fdisk /dev/sda

use "p" (print partition of a drive), "d" delete a partition or "n" (create new partition). The partition should be of type "83"

Format the partition for rootfs with EXT4 filesystem

Quote

#mkfs.ext4 /dev/sda1

#### **Copying Rootfs**

We assume that, /dev/sda is the hard drive we want to install

Quote

\$sudo su - root

#dd if=/dev/nandb of=/dev/sda1 bs=1M

Changing Boot Parameters

Quote

\$sudo su - root #mount /dev/nanda /mnt #vi /mnt/uEnv.txt

#### Change the contents of uEnv.txt to

#### Quote

root@cubietruck:~# cat /mnt/uEnv.txt

console=tty0

extraargs=console=ttyS0,115200 hdmi.audio=EDID:0 disp.screen0\_output\_mode=EDID:1280x720p50 rootwait panic=10 rootfstype=ext4 rootflags=discard

nand\_root=/dev/sda1

#sync #umount /mnt #reboot

#### Auto-mount (HDD) hard drive or SSD on bootup:

I need help fixing this.

#### **Activating Bluetooth:**

The person who wrote this assumes that you're a Linux expert. I'll play with these settings and get them simplified asap:

http://www.cubieforums.com/index.php/topic,1098.0.html

http://linux-sunxi.org/Cubietruck/Bluetooth

#### Quote

 $\label{local_continuous_continuous_continuous} \label{local_continuous_continuous_continuous} \label{local_continuous_c$ 

## Activating IR (Infrared remote control receiver):

 $See this thread: \\ \underline{http://www.cubieforums.com/index.php/topic,1001.0.html} \\ - though it doesn't specifically discuss the CT: \\ \underline{http://www.cubieforums.com/index.php/topic,1001.0.html} \\ - though it doesn't specifically discuss the CT: \\ \underline{http://www.cubieforums.com/index.php/topic,1001.0.html} \\ - though it doesn't specifically discuss the CT: \\ \underline{http://www.cubieforums.com/index.php/topic,1001.0.html} \\ - \underline{http://www.cubie$ 

Apparently the kernal must be updated because that thread sends you to another thread that then sends you to this thread: http://www.cubieforums.com/index.php/topic,504.msg2430.html#msg2430

I'll type them up as i figure it out.

Patwood says:

#### Quote

There's a bug in all of the A20 script.bin files on github. The line "ir\_rx=" should be "ir0\_rx=".

and you should be able to check to see if the port is working without running lirc. Just do

od /dev/input/eventX

Not sure how or where to put or edit the files, but it's a start. I tried the provided instructions and received a FATAL ERROR code, so it looks like the kernal provided to us for Lubuntu and CT was not properly set up before release.

#### Blank Screen when not active or watching a movie:

Change this setting under the "screensaver" application on the preferences menu.

Change "Blank After" to 30 minutes or more.

### Activating the Headphone / Microphone jack:

In terminal type:

#### Quote

linaro@cubietruck:~\$ sudo apt-get install alsa-base linaro@cubietruck:~\$ sudo apt-get install pulseaudio

You'll see it install or update - depending if it was in before. Hit enter to finish installing when it asks Y/N? The install may take a few minutes.

And then I went to the Synaptic Package Manager: from Start > System Tools > Synaptic Package Manager. Wait for it to load. Click "search" and in the search window type "alsa" (note: I'm sure these can be installed from using "apt-get install" for each one. I have no idea which of these made the audio jack work, but the "Gnome Alsa Mixer" has settings for HDMI: LineL and LineR; the headphone jack: Playback; FmL and FmR; Ldac Left Mixer; Ldac Right Mixer, Rdac Right Mixer. Clicking the correct check box (Playback) activated the audio jack. It will also install a volume icon on the task bar. Now you may easily switch between HDMI/Jack/SPDIF.

Check each and select to install:

alsa-utils alsaplayer-jack gnome-alsamixer - very useful and / or volti

After you install, reboot.

Anyway, after a month of trying to get help around here with no success, it woks!

#### **Activating SPDIF**

#### See this thread:

http://www.cubieforums.com/index.php/topic,1074.0.html

and: http://www.cubieforums.com/index.php/topic,1081.0.html

## Turning off the LED lights (Temporary):

From http://www.youtube.com/watch?v=4sn8uKvFlyU

In terminal:

#### Quote

linaro@cubietruck:~\$ cd /sys/class/leds linaro@cubietruck:/sys/class/leds\$ ls

Select which light you want to change. You will see:

#### Quote

blue:ph21:led1 green:ph07:led4 orange:ph20:led2 white:ph11:led3

To select the BLUE LED directory, type:

#### Quote

linaro@cubietruck:/sys/class/leds\$ cd blue\*

You will see:

## Quote

linaro@cubietruck:/sys/class/leds/blue:ph21:led1\$

Type:

#### Quote

linaro@cubietruck:/sys/class/leds/blue:ph21:led1\$ Is

You will see:

Quote

```
brightness device max brightness power subsystem trigger uevent
Switch to root, type:
Quote
   Quote
     linaro@cubietruck:/sys/class/leds/blue:ph21:led1$ sudo su -
     root@cubietruck:~#
     root@cubietruck:~# cd /sys/class/leds/blue:ph21:led1
Send command:
Quote
  echo 0 > brightness
Repeat for other LEDs.
Turning off the LEDs on bootup (permanent):
In Terminal, type:
Quote
  linaro@cubietruck:~$ sudo apt-get install build-essential git
Updates will install (if you've already installed this you will be notified).
  build-essential is already the newest version.
  git is already the newest version.
In Terminal, type:
Quote
   linaro@cubietruck:~$ git clone https://github.com/linux-sunxi/sunxi-tools
  Cloning into 'sunxi-tools'...
  remote: Counting objects: 878, done.
  remote: Compressing objects: 100% (397/397), done.
  remote: Total 878 (delta 493), reused 858 (delta 474)
   Receiving objects: 100% (878/878), 253.51 KiB, done.
   Resolving deltas: 100% (493/493), done.
  linaro@cubietruck:~$ cd sunxi-tools
  linaro@cubietruck:~/sunxi-tools$ make bin2fex
  linaro@cubietruck:~/sunxi-tools$ make fex2bin
   linaro@cubietruck:~/sunxi-tools$ mkdir /tmp/boot
  linaro@cubietruck:~/sunxi-tools$ sudo mount /dev/nanda /tmp/boot
  linaro@cubietruck:~/sunxi-tools$ cp /tmp/boot/script.bin
  linaro@cubietruck:~/sunxi-tools$ bin2fex script.bin script.fex
  linaro@cubietruck:~/sunxi-tools$ pico script.fex
Pico commands are here: http://www.computerhope.com/unix/upico.htm
Fex Guide: http://linux-sunxi.org/Fex_Guide
In Pico search (Ctrl + W) LEDs and you will see:
Quote
  [leds_para]
   leds used = 1
   leds_num = 4
   leds_pin_1 = port:PH21<1><default><default><0>
   leds_name_1 = "blue:ph21:led1"
   leds default 1 = 0
  leds trigger 1 = "heartbeat"
   leds_pin_2 = port:PH20<1><default><default><0>
   leds_name_2 = "orange:ph20:led2"
   leds_default_2 = 0
  leds_trigger_2 = "cpu0"
leds_pin_3 = port:PH11<1><default><default><0>
   leds_name_3 = "white:ph11:led3"
```

To shut them all off change this line from 1 to 0 (above in red): Quote leds\_used = 1 To 0 Quote leds\_used = 0 To turn the LEDs back on change the 0 back to 1. To save, type: Quote cntl + o and press enter Exit Quote cntl + x To back up load the script at boot: Quote linaro@cubietruck:~/sunxi-tools\$ sudo cp script.bin script.bin.original linaro@cubietruck:~/sunxi-tools\$ fex2bin script.fex script.bin linaro@cubietruck:/tmp/boot\$ sudo cp /home/linaro/sunxi-tools/script.bin . linaro@cubietruck:/tmp/boot\$ sudo sync reboot: Quote linaro@cubietruck:/tmp/boot\$ sudo reboot Oddly, while playing around with these light settings i noticed that some of the audio noise coming from the jack seemed to

be synched with the flashing lights. Turning them all off seems to have cut about half the noise. Maybe a pcm issue? Moving the mouse the noise is still heard.

# Switching HDMI to VGA (without reinstall) - or having BOTH HDMI and VGA active

These changes are made to the same script.fex file as the LEDs, in the last step.

http://www.youtube.com/watch?v=4sn8uKvFlyU

VGA only: see also this thread here:

http://www.cubieforums.com/index.php/topic,1044.0.html

#wget http://dl.cubieboard.org/software/tools/armhf/cb-display-tool #chmod 777 cb-display-tool #cb-display-tool -o 8 -m 11 #switch to VGA type #cb-display-tool -o 4 -m 4 #switch to HDMI type

Mid has posted script files here:

http://www.cubieforums.com/index.php?action=dlattach;topic=1044.0;attach=223 http://www.cubieforums.com/index.php?action=dlattach;topic=1044.0;attach=224

Mid attached a VGA script.bin which also includes the high-system-load fix.

Remember to rename the script\_vga.bin to script.bin, or create a symbolic link.

Many of us newbs will probably need some clearer instructions on this one.

# Installing a 3.5" hard drive:

See this video for one way to do it with the HDD Add on Card:

http://www.youtube.com/watch?v=\_c\_utSSI2ak

I don't think that the HDD add on card is necessary for the CubieTruck, though it eliminates the need for two power sources - 5 and 12 volt. One could just take a 12 volt DC adapter with the proper connector on the end and plug it into the 12v DC plug on the top of the CT. But to have a single voltage source, this method is good. It would be nice if a 12v DC out to the display was added to the same card: http://www.cubieforums.com/index.php/topic,940.0.html

#### Fixing RAM running at 1GB instead of at the advertised 2GB:

http://www.cubieforums.com/index.php/topic,1168.0.html

« Last Edit: January 27, 2014, 10:00:43 AM by admin »

Logged L

### □ hoffi77

Newbie



Posts: 18 Karma: +2/-0



Re: The ULTIMATE NEWB CUBIETRUCK SET-UP thread

« **Reply #1 on:** December 03, 2013, 07:57:18 AM »

Quote from: CubieNewb on December 02, 2013, 09:46:39 PM

Auto-mount (HDD) hard drive or SSD on bootup:

I need help fixing this.

Did you try "fstab" to automount your HDD? This works fine for me..

https://help.ubuntu.com/community/Fstab

Greets,

Christian

<sup>₿</sup>L Logged

#### patwood

Linux geek Global Moderator Hero Member



Posts: 1660 Karma: +129/-0



# Re: The ULTIMATE NEWB CUBIETRUCK SET-UP

« **Reply #2 on:** December 03, 2013, 09:57:51 AM »

Quote from: hoffi77 on December 03, 2013, 07:57:18 AM

Quote from: CubieNewb on December 02, 2013, 09:46:39 PM

Auto-mount (HDD) hard drive or SSD on bootup:

I need help fixing this.

Did you try "fstab" to automount your HDD? This works fine for me..

https://help.ubuntu.com/community/Fstab

Greets,

Christian

That'll only work if you're not using the sata drive for your root partition. To use it as your root partition you'll need to change the root= setting in the uEnv.txt file and make sure the sata driver is built into the kernel and not loadable.

Logged L

# □ CubieNewb

Newbie



Posts: 46 Karma: +5/-6



# Re: The ULTIMATE NEWB CUBIETRUCK SET-UP thread

« Reply #3 on: December 03, 2013, 08:03:18 PM »

when I changed my partition to give the cubie some space, it really screwed things up. If auto mount is off, I can mount it fine, but if it's on it gives me an error. I put the free space for the cubie rootfs at the end of the drive, rather than the beginning. Let me know if you have any ideas.

Logged

# □ CubieNewb

Newbie



Posts: 46

Re: The ULTIMATE NEWB CUBIETRUCK SET-UP thread

« Reply #4 on: December 03, 2013, 08:16:34 PM »

BTW, it's a 1tb drive filled up with movies and such - NTFS.

Karma: +5/-6

2

#### CubieNewb

Newbie



Posts: 46 Karma: +5/-6



#### patwood

Linux geek Global Moderator Hero Member



Posts: 1660 Karma: +129/-0



□ rose28357 Hero Member





Posts: 561 Karma: +28/-0



Newbie



Posts: 46 Karma: +5/-6



# Re: The ULTIMATE NEWB CUBIETRUCK SET-UP

« Reply #5 on: December 05, 2013, 01:12:12 PM »

I'd appreciate any help getting the rest of these filled out. The lack of community with the Cubie as compared to the RPi is astounding! I think it's hugely important to build a community and to get all of these things working here ASAP... CT needs to work by Christmas, folks! Bluetooth anyone? Audio ports, IR? Come on!

**比** Logged

Logged

thread

# Re: The ULTIMATE NEWB CUBIETRUCK SET-UP

thread

« Reply #6 on: December 05, 2013, 11:59:57 PM »

Quote from: CubieNewb on December 05, 2013, 01:12:12 PM

I'd appreciate any help getting the rest of these filled out. The lack of community with the Cubie as compared to the RPi is astounding! I think it's hugely important to build a community and to get all of these things working here ASAP... CT needs to work by Christmas, folks! Bluetooth anyone? Audio ports, IR? Come on!

You can look around at all the posts on the IR and audio on the CB1 and CB2, which should work the same as the CT with 3.4.x kernels, since these devices are supported directly on the A20 SoC.

Bluetooth is a different matter -- nobody is quite sure which driver/firmware to use: https://groups.google.com/forum /?fromgroups=#!topic/linux-sunxi/X75nghXpOkU

Logged

#### Re: The ULTIMATE NEWB CUBIETRUCK SET-UP thread

« Reply #7 on: December 07, 2013, 04:36:06 AM »

## Hi CubieNewbee

There is a thread about how to copy then rootfs to a new location. The dd comand does not work...  $\underline{\text{http://www.cubieforums.com/index.php/topic,} 1147.0.html}$ 

The download link for the vga ubuntu is here

http://dl.cubieboard.org/software/a20-cubietruck/lubuntu/ct-lubuntu-nand-v1.00/VGA/

How to change to vga is described here

http://www.cubieforums.com/index.php/topic,1044.0.html

Please join these entries in your setup description

« Last Edit: December 07, 2013, 11:50:22 AM by rose28357 »

**३** Logged

Real developpers are goining here

http://linux-sunxi.org/Main\_Page,

https://groups.google.com/forum/m/#!forum/linux-sunxi and http://irclog.whitequark.org/linux-sunxi/

# Re: The ULTIMATE NEWB CUBIETRUCK SET-UP

thread

« Reply #8 on: December 09, 2013, 12:48:18 AM »

Quote from: patwood on December 05, 2013, 11:59:57 PM

Quote from: CubieNewb on December 05, 2013, 01:12:12 PM

I'd appreciate any help getting the rest of these filled out. The lack of community with the Cubie as compared to the RPi is astounding! I think it's hugely important to build a community and to get all of these things working here ASAP... CT needs to work by Christmas, folks! Bluetooth anyone? Audio ports, IR? Come on!

You can look around at all the posts on the IR and audio on the CB1 and CB2, which should work the same as the CT with 3.4.x kernels, since these devices are supported directly on the A20 SoC

Bluetooth is a different matter -- nobody is quite sure which driver/firmware to use: https://groups.google.com/forum/?fromgroups=#!topic/linux-

Actually, I have searched around.. the other threads said it was mic only. Do you think it possible to get more support around here than vague answers and nearly always incomplete instructions? A month with this thing and still no audio. You people really couldn't be much more unhelpful.

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#### tpfresh

Newbie



Posts: 5 Karma: +1/-0



#### □ CubieNewb

Newbie



Posts: 46 Karma: +5/-6



#### patwood

Linux aeek Global Moderator Hero Member



Posts: 1660 Karma: +129/-0

# ■ CubieNewb

Newbie



Posts: 46 Karma: +5/-6





Hero Member



Posts: 561 Karma: +28/-0

#### Re: The ULTIMATE NEWB CUBIETRUCK SET-UP thread

« Reply #9 on: December 10, 2013, 03:24:47 AM »

thx u very much for this topic @@@@@@ It is very useful



Re: The ULTIMATE NEWB CUBIETRUCK SET-UP thread

« Reply #10 on: December 10, 2013, 10:02:00 PM »

The audio jack now works. See the above settings.

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Re: The ULTIMATE NEWB CUBIETRUCK SET-UP thread

« Reply #11 on: December 11, 2013, 12:13:31 AM »

Ouote from: CubieNewb on December 09, 2013, 12:48:18 AM

Actually. I have searched around, the other threads said it was mic only. Do you think it possible to get more support around here than vague answers and nearly always incomplete instructions? A month with this thing and still no audio. You people really couldn't be much more unhelpful.

According to this: http://linux-sunxi.org/A20-Cubietruck#Expansion\_Ports line in's hooked up to pins 24 and 26 on CN8. The allwinner chips also have MIC in ports (ball AC20 and 21), but I don't see them anywhere on the CT wiki and I can't find a schematic to look for them.

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#### Re: The ULTIMATE NEWB CUBIETRUCK SET-UP thread

« Reply #12 on: December 11, 2013, 02:02:02 AM »

As I said in the previous post, I got it up and working, but now something is causing it to fail when I switch back to HDMI. I need both to work, but at least the jack is working now... only to get HDMI back. Gnome Alsa Mixer fails to open when HDMI is plugged in and HDMI audio now fails. It says that there is a / at the end of some file that can't be there.

Here is the error code:

#### Quote

An error occurred while loading or saving configuration information for GNOME ALSA Mixer. Some of your configuration settings may not work properly

Bad key or directory name: "/apps/gnome-alsamixer/display mixers/": Key/directory may not end with a slash '/' Bad key or directory name: "/apps/gnome-alsamixer/display names/": Key/directory may not end with a slash '/'

« Last Edit: December 11, 2013, 02:36:47 AM by CubieNewb »

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### Re: The ULTIMATE NEWB CUBIETRUCK SET-UP thread

« Reply #13 on: December 11, 2013, 01:30:29 PM »

Here is descibed who to install and activate the IR receiver http://www.cubieforums.com/index.php/topic,1001.0.html

And here a set of commands to dimm the leds.

http://www.cubieforums.com/index.php/topic,1175.0.html

Code: [Select]

Added in /etc/rc.local:

echo 0 > /sys/class/leds/blue:ph21:led1/brightness

echo 0 > /svs/class/leds/orange:ph20:led2/brightness

echo 0 > /sys/class/leds/white:ph11:led3/brightness echo 0 > /sys/class/leds/green:ph07:led4/brightness

« Last Edit: December 11, 2013, 01:35:42 PM by rose28357 »

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#### Real developpers are goining here

http://linux-sunxi.org/Main\_Page

 $\underline{\text{https://groups.google.com/forum/m/\#!forum/linux-sunxi}} \text{ and } \underline{\text{http://irclog.whitequark.org/linux-sunxi/}}$ 

#### □ kingneutron

Jr. Member



Posts: 78 Karma: +10/-0

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# Re: The ULTIMATE NEWB CUBIETRUCK SET-UP

- « Reply #14 on: December 14, 2013, 03:51:07 AM »
- > I would appreciate any and all's help here to make this set up thread as complete as possible.
- --In the spirit of Contributing Back to Teh Community(TM) - here are the links that I've found to be the most help with setting up Cubieboard / Cubietruck:

#### # NAND Lubuntu install

http://docs.cubieboard.org/tutorials/cb3/start

 $\underline{\text{http://docs.cubieboard.org/tutorials/ct1/installation/cb3\_lubuntu-12.10-desktop\_nand\_installation\_v1.00}$ 

http://docs.cubieboard.org/tutorials/common/livesuit\_installation\_guide

http://linux-sunxi.org/LiveSuite

http://docs.cubieboard.org/tutorials/a20-cubietruck\_lubuntu\_server\_releases

#### # Install Lubuntu to microSD Card:

http://docs.cubieboard.org/zh/tutorials/ct1/installation/install\_lubuntu\_desktop\_server\_to\_sd\_card http://linux-sunxi.org/Bootable\_SD\_card

http://cubieboard.org/2013/10/30/cubieboard3-cubietruck-is-all-ready/

#### # PDF file to install Ubuntu on Cubieboard:

http://ubuntuone.com/0RS9SxRD0NL1ag7RNviFkB

http://www.cubieforums.com/index.php/topic,837.0.html#msg4942

#### # Good place to start:

http://linux-sunxi.org/Cubieboard/FAQ#OK.2C\_I\_have\_my\_Cubieboard\_now.21\_Where\_is\_a\_good\_place\_to\_start.3F

#### --For the Cubieboard v1:

http://www.raspberrypi.org/phpBB3/viewtopic.php?t=12776 http://www.berryterminal.com/doku.php/berryboot\_a10

### # Cubie v1 unboxing and Quickstart guide:

http://www.cnx-software.com/2012/12/09/cubieboard-unboxing-and-quick-start-guide/

### # POST HERE if you have a Cubietruck and want support for it added to Berryboot!

https://github.com/maxnet/berryboot/issues/52

#### # Which microSD card to use:

 $\underline{\text{http://www.cubieforums.com/index.php/topic,379.0.html}}$ 

## Find cubie on network so you can SSH to it: - change for your LAN settings: (default id/password for Linaro distro is linaro/linaro )

# nmap -v -sP 192.168.2.0/24 |grep -v down

# ssh -l linaro 192.168.2.98

NOTE: when doing Livesuit: cubie MUST be plugged into USB2.0 port for flash upgrade! Otherwise get error: Too Many Devices plugin...

--Have a lot of fun, DOCUMENT EVERYTHING (this has saved my butt too many times, especially after coming back to do a procedure after months/years), and post whatever you can share with others 0

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Pages: [1] 2 Go Up

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« previous next »

CubieBoard Forum » Cubieboard itself » Beginners » The ULTIMATE Newb Cubietruck set-up guide

Jump to: => Beginners go

Curve Minimal, by Akyhne
SMF 2.0.9 | SMF © 2014, Simple Machines
XHTML RSS WAP2

Bad Behavior has blocked 14264 access attempts in the last 7 days.