



Ubuntu Forums (<http://ubuntuforums.org/index.php>)

- [Tutorials & Tips](http://ubuntuforums.org/forumdisplay.php?f=100) (<http://ubuntuforums.org/forumdisplay.php?f=100>)
- - [HOW TO: Install Ubuntu on a HP TC1100 tablet pc](http://ubuntuforums.org/showthread.php?t=563736) (<http://ubuntuforums.org/showthread.php?t=563736>)

olaoni

August 21st, 2008 03:08 PM

Re: HOW TO: Install Ubuntu on a HP TC1100 tablet pc

Sorry for the late response, I was away from my pc.

No still not working.

I can confirm that the script works by running the commands in shell and in addition to this. When I click the **rotate pen button** or when I press F1 on my laptop.

The problem is when the screen is rotated I can't use the stylus to point to anything on the screen. Every time I try to point to icon or something on the screen the cursor moves far away from the tip of the stylus.

Just for the record I am using ubuntu Hardy and linuxwacom-0.8.1-3.

phenest

August 22nd, 2008 12:46 PM

Re: HOW TO: Install Ubuntu on a HP TC1100 tablet pc

Quote:

Originally Posted by **olaoni** (Post 5637958)

The problem is when the screen is rotated I can't use the stylus to point to anything on the screen. Every time I try to point to icon or something on the screen the cursor moves far away from the tip of the stylus.

What does "...moves far away..." mean? Does the cursor move to a screen edge? Or moves as if the wacom has not rotated? Does it move correctly, but just not in the right place?

Could you please try and describe the cursors action in as much detail as possible, please?

olaoni

August 22nd, 2008 03:23 PM

Re: HOW TO: Install Ubuntu on a HP TC1100 tablet pc

When the laptop is in the normal position if I place the tip of the sytlus to the screen the cursor follows the direction of the pen.

When I rotate the screen and holding the pc as a slate if I point the sytlus to the top middle of the screen the cursor appear to the left middle of the screen and if I run the pen from top to bottom the

cursor goes from left to right.

Likewise if I run the pen from right to left of the screen the cursor goes from bottom to top of the screen.

Regards
Ola oni

olaoni

August 22nd, 2008 03:26 PM

Re: HOW TO: Install Ubuntu on a HP TC1100 tablet pc

When the laptop is in the normal position if I place the tip of the stylus to the screen the cursor follows the direction of the pen from top to bottom and left to right etc.

When I rotate the screen and holding the pc as a slate if I point the stylus to the top middle of the screen the cursor appear to the left middle of the screen and if I run the pen from top to bottom the cursor goes from left to right.

Likewise if I run the pen from right to left of the screen the cursor goes from bottom to top of the screen.

Regards
Ola oni

phenest

August 23rd, 2008 10:34 AM

Re: HOW TO: Install Ubuntu on a HP TC1100 tablet pc

Then the wacom has not rotated. What happens if you type:

Code:

```
xsetwacom set stylus Rotate CCW
```

from a terminal? Any error messages? If not, test the pen again. Any difference?

Report back with the results.

olaoni

August 23rd, 2008 12:33 PM

Re: HOW TO: Install Ubuntu on a HP TC1100 tablet pc

Quote:

Originally Posted by **phenest** (Post 5648949)

Then the wacom has not rotated. What happens if you type:

Code:

```
xsetwacom set stylus Rotate CCW
```

from a terminal? Any error messages? If not, test the pen again. Any difference?

Report back with the results.

Running the above code through the terminal window did not make any difference. I can confirm that the pen works because it works under windows.

May I ask what version of wacom project and ubuntu are you using on your tablet?

phenest

August 23rd, 2008 02:52 PM

Re: HOW TO: Install Ubuntu on a HP TC1100 tablet pc

Quote:

Originally Posted by **olaoni** (Post 5649629)

May I ask what version of wacom project and ubuntu are you using on your tablet?

I'm not. I sold my tablet a while ago, but someone here has reported the tablet works fine with Hardy and the rotate script works. I'm at a loss as to why yours does not.

olaoni

August 23rd, 2008 03:06 PM

Re: HOW TO: Install Ubuntu on a HP TC1100 tablet pc

The problem seems to be that the following line of code

Quote:

xsetwacom set stylus Rotate CCW

I don't think it is working correctly, do you know of any other command that can set the stylus pen.

Aearenda

August 23rd, 2008 05:51 PM

Re: HOW TO: Install Ubuntu on a HP TC1100 tablet pc

Here is the script I use to toggle my TC1100 screen rotation on Ubuntu Hardy, both screen and tablet. I have it set to trigger when I click on a panel launcher.

Code:

```
#!/bin/sh
# Based on work from Patrick Coke & Tim Pope
# Modified for TC1100 by Francisco Athens
# Rewritten for current xsetwacom and xrandr versions by Krzysztof Kosiński
# Adapted for me to work as a toggle - SCJ 1/3/08
```

```
# Rotate all detected wacom devices to the given direction,
# and the screen!
```

```
ROTATION=`xrandr --verbose --query | \
    grep 'default connected' | \
    sed -e 's/^.*(.) \(.*\) (.*).*$/\1/'`

case $ROTATION in
    normal)      xsetwacom set stylus rotate ccw
                  xrandr -o left ;;
    left)        xsetwacom set stylus rotate none
                  xrandr -o normal ;;
esac
```

I use the stock wacom-tools 1.0.7.9.8-0ubuntu3 installed from the standard repositories. I don't have anything called linuxwacom installed. My /etc/X11/xorg.conf contains the following, **in addition to the entries required for the keyboard, screen and mouse** :

Code:

```
Section "InputDevice"
    Driver      "wacom"
    Identifier   "stylus"
    Option       "Device"      "/dev/input/wacom"
    Option       "Type"        "stylus"
    Option       "ForceDevice"  "ISDV4"          # Tablet PC ONLY
    Option       "Button2"     "3" # This is the line you need for the
stylus button to right click
EndSection

Section "ServerLayout"
    <other stuff goes here too - just add the following "stylus" line,
    the Section/EndSection lines are shown here so you know where it belongs>
    InputDevice  "stylus"      "SendCoreEvents"
EndSection
```

olaoni

August 23rd, 2008 07:00 PM

Re: HOW TO: Install Ubuntu on a HP TC1100 tablet pc

Hi Aearenda I just tried the script you provided and things are still the same. I don't know if it is possible for you to try the copy of xorg.conf I posted in post #71 on you tc1100. I was just wondering if the ordering of the entries in the xorg file play any role to this behaviour. I am very new to linux so can you elaborate a bit more on the statement *stock wacom-tools 1.0.7.9.8-0ubuntu3 installed from the standard repositories*

I built the wacom_drv.so I am using from the wacom project website and it is labeled linuxwacom-0.8.1-3

phenest

August 24th, 2008 02:52 AM

Re: HOW TO: Install Ubuntu on a HP TC1100 tablet pc

Quote:

Originally Posted by **olaoni** (Post 5651670)

Hi Aearenda I just tried the script you provided and things are still the same. I don't know if it is possible for you to try the copy of xorg.conf I posted in post #71 on you tc1100.

I was just wondering if the ordering of the entries in the xorg file play any role to this behaviour.

I am very new to linux so can you elaborate a bit more on the statement stock wacom-tools 1.0.7.9.8-Ubuntu3 installed from the standard repositories

I built the wacom_drv.so I am using from the wacom project website and it is labeled linuxwacom-0.8.1-3

The xorg.conf has nothing to do with rotation except to tell the X server to use the stylus. But seeing as you've mentioned that you're using a custom built driver, then that is your problem. This How To was not designed to be used with custom drivers. If you're using a driver obtained from the Wacom Project, then you need to discuss it with them, as it is outside the scope of this tutorial.

For someone who is new to Linux, I'm amazed you managed to custom build a Wacom driver, but you can't follow this How To.

If I were you, I would re-install Hardy fresh, and read post #1 again taking note of sections for Gutsy. It does work provided you don't try and add stuff that isn't there.

Aearenda

August 24th, 2008 10:26 PM

Re: HOW TO: Install Ubuntu on a HP TC1100 tablet pc

Olaoni, I agree with Phenest, your problem is most likely to do with the custom drivers you have installed. That's what I meant in my post - I haven't taken anything from Wacom's site, all I did was

Code:

```
sudo apt-get install wacom-tools
```

and this installed the required drivers for me with no further fuss.

EDIT: By 'no further fuss' I meant no need to compile anything - I still had to modify xorg.conf as described earlier.

olaoni

August 25th, 2008 03:44 PM

Re: HOW TO: Install Ubuntu on a HP TC1100 tablet pc

Thanks for your support phenest and Aearenda. I will re-install ubuntu at the earliest opportunity I get and let you know how it went.

Just for the record when I installed wacom-tools I used is the above command. The reason for the custom build was to get the pen buttons to work.

The tutorial I followed was from: -<http://ubuntuforums.org/showthread.p...01#post3672701>
And like I mentioned in my first mail I got the pen buttons working satisfactorily.

Moreover the tutorial used **linuxwacom-0.7.8-3.tar.bz2**. Which when I built did not work under

ubuntu Hardy. So I had to build with linuxwacom-0.8.1-3.tar.bz2 which does work (Pen button functionality at least).

Aearenda

August 25th, 2008 09:14 PM

Re: HOW TO: Install Ubuntu on a HP TC1100 tablet pc

Good luck! Just for the record, I have never bothered with trying to get the extra buttons to work as described in that thread.

phenest

August 26th, 2008 02:18 AM

Re: HOW TO: Install Ubuntu on a HP TC1100 tablet pc

olaoni: The thread you refer to is something I and another member were working on, and indeed, did get it working. We did both submit our findings to the Wacom Project, but heard nothing back. Of course, our fix was only a workaround and not a true fix. If I still had the tablet, I would have worked on it further. It's a shame those buttons still don't work 'out of the box'.

WebBuddha

September 12th, 2008 10:30 AM

Re: HOW TO: Install Ubuntu on a HP TC1100 tablet pc

Hello,

I've tried it also with

Quote:

```
sudo apt-get install wacom-tools
```

but it wasn't working for me.

Did I have to run the How-To also? I thought that it should work with the wacom-tools only?

Regards

WebBuddha

phenest

September 12th, 2008 11:06 AM

Re: HOW TO: Install Ubuntu on a HP TC1100 tablet pc

Quote:

Originally Posted by **WebBuddha** (Post 5775492)

Hello,

I've tried it also with but it wasn't working for me.

Did I have to run the How-To also? I thought that it should work with the wacom-tools only?

Regards
WebBuddha

If you read the 'How To', you will see you need to amend the xorg.conf file.

trksh22

September 22nd, 2008 07:34 PM

Re: HOW TO: Install Ubuntu on a HP TC1100 tablet pc

Can someone help me? None of the changes are remaining in terminal. I cannot get the pen to work at all.

phenest

September 23rd, 2008 07:35 AM

Re: HOW TO: Install Ubuntu on a HP TC1100 tablet pc

Quote:

Originally Posted by **trksh22** (Post 5837762)
...None of the changes are remaining in terminal...

Not sure what you mean by that. But if you follow the guide **exactly** as shown in the first post of this 'How To', it **will** work. Please persevere as the majority of people having problems have simply missed a step.

trksh22

September 23rd, 2008 07:56 AM

Re: HOW TO: Install Ubuntu on a HP TC1100 tablet pc

Thanks for replying. That's the thing, I don't know what I am doing wrong. I open up terminal, type in the nec things, close out. No changes saved. I reopened terminal, retyped everything, waited for it to "automatically save" closed out, then nothing. I tried looking at other tuts but nothing says what I should do after I am done editing something in terminal. There is no way to save my changes.

After that the next step is to type in some code and save it as (I forget what) but where would I do that?

Thanks in advance. I am a total newbie. I am reading, I promise I am.... just not getting anywhere. I just need it "dumbed down" LOL.

Thanks in advance...

phenest

September 23rd, 2008 03:44 PM

Re: HOW TO: Install Ubuntu on a HP TC1100 tablet pc

Ok. I think I know what you're getting at. Are you trying to edit files in a terminal? If you're using

nano, Ctrl-X will prompt you to save. Press 'Y' and 'Enter', and it will be saved. If that confuses you, then use gedit, e.g.:

Code:

```
gksudo gedit /etc/X11/xorg.conf
```

Remember to use gxsudo for graphical apps and sudo for terminal apps.

Aearenda

September 23rd, 2008 06:45 PM

Re: HOW TO: Install Ubuntu on a HP TC1100 tablet pc

Phenest means 'use gksudo for graphical apps', gxsudo is a typo. Gksudo is a way of gaining admin privilege while running a graphical application. Sudo is a way of gaining admin privilege when running a command-line application.

trksh22

September 23rd, 2008 06:53 PM

Re: HOW TO: Install Ubuntu on a HP TC1100 tablet pc

Yes! That is what I need. I promise I did read, tutorials and manuals but nothing I read (yet) had explained that. If you know of a basic tut that expounds upon what you just said then I would be happy to look at it (but no pressure, I am happy enough just knowing this!)

Remember to use gxsudo for graphical apps and sudo for terminal apps.

Yet another silly question, what would be considered a "graphical app"? Thanks!!

trksh22

September 23rd, 2008 07:19 PM

Re: HOW TO: Install Ubuntu on a HP TC1100 tablet pc

.....

trksh22

September 23rd, 2008 09:44 PM

Re: HOW TO: Install Ubuntu on a HP TC1100 tablet pc

The same thing has happened to me! It's so hard to get any consistant help. I am about ready to give up. I don't want to, but it looks like I don't have a choice now! I can't get the screen to change back, no matter what I do. I couldn't (and still can't) get the pen to work. This is depressing. I am at a lost. Help is **very** hard to come by, even on this site... I guess Ubuntu isn't for everyone..... :(

Quote:

Originally Posted by **okrichie** (Post 5600561)

K am starting to get really upset about this.. I've installed Ubuntu on my tc1100, it worked

fine apart from the usual; stylus, extra buttons etc..

I started messing with this tutorial and a couple of others such as for the 'soft buttons' and the hardware buttons like Q.

This is the second time now, after hours of compiling stupid wacom drivers and messing in the xorg.conf, I have reached the same problem I got after a few hours of messing the first time; and I was honestly, really careful this time.

What's going on? Well the stylus still doesn't work. Now the graphics are set to only 800x600max and I can't change it. I tried restoring an original xorg.conf backup; it did NOT help at all..

Why is this such a demanding problem? Why are all the solutions to these issues so cryptic? Why do these solutions not seem to work and at the same time cause MORE trouble?

Has anyone encountered this? I'm obviously being a complete moron and doing it wrong. So take pity and help please?

I got the stylus to work once, using an xorg.conf file I downloaded that someone else made (I think for a slightly different distro of linux), but that seemed to cause the same graphics problem; so I formatted and tried over, being more careful to self-build my own xorg.conf rather than slap my name on someone else's but it hasn't worked!

Aearenda

September 24th, 2008 02:06 AM

Re: HOW TO: Install Ubuntu on a HP TC1100 tablet pc

A graphical application is something that creates its own window on the desktop, and can lay out that window with buttons and pictures and other stuff anywhere it likes - a classic "Windows Program" - in contrast to applications which run in a terminal (or 'command-line') session, which are constrained only to use letters, not pictures - as if they were still running on an old-fashioned teletype terminal, or on MS-DOS before the days of Windows.

Gedit is a graphical text editor. You start it by using the mouse to find 'Text Editor' in the Accessories menu. Then you have to click on 'File->Open' and select a file to get started.

Nano is a command-line text editor that runs in a terminal session. You start it by typing 'nano <filename>' in a command line session, which might have been started by using the mouse to find 'Terminal' in the Accessories menu, for example. Nano runs inside the Terminal window. You can also use it from a text logon session, if the windowing system fails to start.

Giving instructions using terminal commands is usually much more succinct and exact than telling people to click on menus and buttons, which is why they come up so often in the forums.

Consistent help is hard to find simply because everyone is a volunteer here, and everyone has different experiences. We can only advise based on what we have encountered ourselves. Sometimes it takes a while to get an answer because we have to go out and earn money, or because we live in different time zones. Whether you find this good or bad depends on the level of your expectations. I recommend this as a way to get the best responses: <http://www.psychocats.net/ubuntucat/...-linux-forums/>

Also see: <http://ubuntuforums.org/showthread.php?t=232059>

Here's some help on using the terminal: <http://www.psychocats.net/ubuntu/terminal>

And here's some more general help on Ubuntu:

<http://book.opensourceproject.org.cn...untu/official/> especially Chapter 4 on the Terminal.

Having said all that, it is true that Ubuntu isn't for everyone. Being an Ubuntu user can be downright frustrating at times. I have used it for about 3 years now, yet last week I contemplated switching back to Windows XP - because I can't get my scanner to work on Ubuntu. But then I plugged my XP drive back into my TC1100, and started it up, and it reminded me of all the things I was trying to escape - and I fell in love with Ubuntu all over again. It's never going to be a completely smooth ride, simply because the hardware manufacturers don't all want to play. But then, neither is Vista, or XP, or OS/X.

Anyway, I hope this helps you to make up your mind to be persistent! People WILL help, given time, if you are clear about what you need, what has happened, follow instructions carefully, and stay patient.

trksh22 said:

Quote:

I can't get the screen to change back, no matter what I do. I couldn't (and still can't) get the pen to work.

I'd like to help you, but I don't know what you mean by "I can't get the screen to change back". What has it changed to?

Also, you say you can't get the pen to work - can you summarise what you have done to try to make it work?

trksh22

September 24th, 2008 07:22 AM

Re: HOW TO: Install Ubuntu on a HP TC1100 tablet pc

Thanks, I wrote my last email out of desperate frustration, lol. Thank you for taking the time to explain things and even provide other links. This is all so new, I knew that there was a learning curve, but I have become so accustomed to windows that I am only slightly overwhelmed by all that I need to know. But, I have to start somewhere, huh? ;)

As for the screen, I was able to just reinstall Ubuntu and now it works.

trksh22

September 24th, 2008 07:25 AM

Re: HOW TO: Install Ubuntu on a HP TC1100 tablet pc

fixed with reinstall. Please ignore, I don't think I have the privileges yet to delete my own post.

trksh22

September 24th, 2008 01:29 PM

Re: HOW TO: Install Ubuntu on a HP TC1100 tablet pc

Can anyone confirm that Ubuntu tablet functions (use of the pen) will work with a replacement/non stock pen. Maybe that is why it won't work for me? This is the pen that I have (which worked fine in Xp):

[Pen with Eraser](#)

Aearenda

September 24th, 2008 06:46 PM

Re: HOW TO: Install Ubuntu on a HP TC1100 tablet pc

I'm glad to hear you are making progress! That's good news.

I'm using the standard pen that came with the TC1100. I see no reason why your pen should not work, but since it has an eraser you will need extra stuff in your `/etc/X11/xorg.conf`. I suggest you do this:

1. Press ALT and F2 (this brings up the 'run' box, like Windows and R or Start->Run on XP).
2. Start the text editor and open the appropriate configuration file by pasting the text in this box:

Code:

```
gksudo gedit /etc/X11/xorg.conf
```

and then press <enter>. Fill in your password if you are asked for it.

3. In the text editor, do File->Save As and make a copy of the file somewhere where you can find it in an emergency!

4. Now close the Text Editor, and then re-open the original file exactly as in step 2.

5. Add the following to the file by copy and paste - in mine, it comes straight after the keyboard and mouse sections. It must follow an 'EndSection' line, unless it is at the very start of the file.

Code:

```
Section "InputDevice"
    Driver      "wacom"
    Identifier   "stylus"
    Option       "Device"          "/dev/input/wacom"      # Change to
                                # /dev/input/event
                                # for USB
    Option       "Type"             "stylus"
    Option       "ForceDevice"      "ISDV4"          # Tablet PC ONLY
    Option       "Button2"          "3" # This is the line you need for the
stylus button to right click
EndSection

Section "InputDevice"
    Driver      "wacom"
    Identifier   "eraser"
    Option       "Device"          "/dev/input/wacom"      # Change to
                                # /dev/input/event
                                # for USB
    Option       "Type"             "eraser"
    Option       "ForceDevice"      "ISDV4"          # Tablet PC ONLY
    Option       "Button2"          "3"
```

```

EndSection

Section "InputDevice"
    Driver            "wacom"
    Identifier        "cursor"
    Option            "Device"            "/dev/input/wacom"      # Change to
                                                # /dev/input/event
                                                # for USB

    Option            "Type"              "cursor"
    Option            "ForceDevice"        "ISDV4"                  # Tablet PC ONLY
    Option            "Button2"            "3"
EndSection

```

I'm not sure you need the third section here (the 'cursor' one), but it won't hurt. I used to run my TC1100 with all three sections enabled until somebody pointed out that the TC1100 pen doesn't have an eraser. You may already have the first section ('stylus') - if so, don't duplicate it.

6. Still in the text editor, make sure the section that links all the devices together looks something like this:

Code:

```

Section "ServerLayout"
    Identifier        "Default Layout"
    screen            "Default Screen"
    InputDevice        "stylus"            "SendCoreEvents"
    InputDevice        "cursor"            "SendCoreEvents"
    InputDevice        "eraser"            "SendCoreEvents"
EndSection

```

It's the three 'InputDevice' lines that matter here - just add them if they are not there - **don't change anything else!**

7. Now save the file and close the text editor.

8. Start the package manager from the menu using System->Administration->Synaptics Package Manager.

9. In the list of packages, find 'wacom-tools'. You can do this by clicking once in the package list area, then typing 'wacom' - without the quotes - which make Synaptic do a stem match on the name. Click in the package list area again to dismiss the little stem-match box.

10. If the square box next to the wacom-tools package is empty, right-click on that line and choose 'install', accept any dependencies it might need, then click on 'Apply' in the tool bar, then click on 'Apply' in the confirmation box; wait for the installation to complete.

11. Close Synaptic Package Manager.

[Aside: steps 8 to 11 could have been done in a command-line terminal simply by pasting in the following command: 'sudo apt-get install wacom-tools' and then pressing Y to confirm - much easier!!]

12. Now log out, and when the login screen appears, press <CTRL> and <ALT> and <BACKSPACE>. This causes X-Windows to restart. X-Windows is the graphical subsystem we use on most Linux systems - without it, all we have are character-mode sessions. Doing this makes the changes we just made take effect, without doing a complete restart.

13. Log in again, and see if the stylus and eraser work, using gimp or another stylus-aware app. The stylus should work anywhere - the eraser may only work where it makes sense. If they work, you're

done; otherwise, continue.

14. Diagnostic only: start a command-line session from Accessories->Terminal and type:

Code:

```
xsetwacom list dev
```

The output from this should be something like

Code:

```
stylus      stylus
eraser      eraser
```

15. Recovery: If after step 12 all you get is a black text-mode screen, rather than the normal Ubuntu graphical login screen, you will need to log in in text mode with your normal username and password.

15.1 If you see no writing on the black screen at all, try pressing <CTRL> and <ALT> and <F1> - this should switch to the first text-mode console, and you should be able to log on there.

15.2 Type

Code:

```
sudo cp <the-name-of-the-copy-you-made-in-step-3> /etc/X11/xorg.conf<ENTER>
```

15.3 Type

Code:

```
reboot<ENTER>
```

Please let us know how you get on! Good luck!

trksh22

September 25th, 2008 09:10 AM

Re: HOW TO: Install Ubuntu on a HP TC1100 tablet pc

Aearenda, firstly, thanks for breaking everything down for me. I needed it to be dumbed down :)

I did follow your directions exactly and got the same results as before. When I did Step 12 thing, I got the same error message as before *"Ubuntu is running in low graphics mode. Your screen and graphics card could not be detected. ... you need have to configure the display yourself."*

After I logged in, I ran the "Xsetwacom" thing and it did not return anything, just repeated the input line (name@blank etc)

I feel like I am so close :)

ETA: (I have since restored my back up file so my graphics card and everything is recognized and back to the default settings.)

Aearenda

September 25th, 2008 05:54 PM

Re: HOW TO: Install Ubuntu on a HP TC1100 tablet pc

Interesting - I guess the next step is for you to post the /etc/X11/xorg.conf file that you had as a result of step 7. Mine is below for comparison. Note that the cursor and eraser are commented out in mine, since I have a stock pen.

I wouldn't expect xsetwacom to return anything without the changes in that file being present.

Hmmm, I wonder - do you have the Nvidia driver installed (I do)?

Code:

```
# xorg.conf (X.Org X Window System server configuration file)
#
# This file was generated by dexconf, the Debian X Configuration tool, using
# values from the debconf database.
#
# Edit this file with caution, and see the xorg.conf manual page.
# (Type "man xorg.conf" at the shell prompt.)
#
# This file is automatically updated on xserver-xorg package upgrades *only*
# if it has not been modified since the last upgrade of the xserver-xorg
# package.
#
# If you have edited this file but would like it to be automatically updated
# again, run the following command:
#   sudo dpkg-reconfigure -phigh xserver-xorg

Section "InputDevice"
    Identifier          "Generic Keyboard"
    Driver              "kbd"
    Option              "XkbRules"          "xorg"
    Option              "XkbModel"          "pc105"
    Option              "XkbLayout"         "us"
EndSection

Section "InputDevice"
    Identifier          "Configured Mouse"
    Driver              "vmmouse"
EndSection

#Section "InputDevice"
#    Identifier          "Synaptics Touchpad"
#    Driver              "synaptics"
#    Option              "SendCoreEvents"    "true"
#    Option              "Device"             "/dev/psaux"
#    Option              "Protocol"           "auto-dev"
#    Option              "HorizEdgeScroll"    "0"
#EndSection

Section "InputDevice"
    Driver              "wacom"
    Identifier          "stylus"
    Option              "Device"              "/dev/input/wacom"      # Change to
                                # /dev/input/event
                                # for USB
    Option              "Type"                "stylus"
    Option              "ForceDevice"         "ISDV4"                # Tablet PC ONLY
    Option              "Button2"             "3" # This is the line you need for the
stylus button to right click
EndSection
```

```

#Section "InputDevice"
#    Driver            "wacom"
#    Identifier        "eraser"
#    Option            "Device"            "/dev/input/wacom"      # Change to
#                                                # /dev/input/event
#                                                # for USB

#    Option            "Type"              "eraser"
#    Option            "ForceDevice"       "ISDV4"              # Tablet PC ONLY
#    Option            "Button2"          "3"

#EndSection

#Section "InputDevice"
#    Driver            "wacom"
#    Identifier        "cursor"
#    Option            "Device"            "/dev/wacom"          # Change to
#                                                # /dev/input/event
#                                                # for USB

#    Option            "Type"              "cursor"
#    Option            "ForceDevice"       "ISDV4"              # Tablet PC ONLY
#    Option            "Button2"          "3"

#EndSection

Section "Device"
    Identifier        "Configured Video Device"
    Driver            "nvidia"
    Option            "NoLogo"              "True"
    # Option          "ConnectedMonitor"    "DFP"
    Option            "RandRRotation"      "on"
    Option            "NvAGP"              "1"
EndSection

Section "Monitor"
    Identifier        "Configured Monitor"
EndSection

Section "Screen"
    Identifier        "Default Screen"
    Monitor            "Configured Monitor"
    Device            "Configured Video Device"
    Defaultdepth       24
EndSection

Section "ServerLayout"
    Identifier        "Default Layout"
    screen "Default Screen"
    InputDevice       "stylus"              "SendCoreEvents"
#    InputDevice       "cursor"              "SendCoreEvents"
#    InputDevice       "eraser"              "SendCoreEvents"
#    Inputdevice       "Synaptics Touchpad"
EndSection
Section "Module"
    Load              "glx"
EndSection

```

trksh22

September 25th, 2008 06:14 PM

Re: HOW TO: Install Ubuntu on a HP TC1100 tablet pc

Ok, I will redo everything and post what I get. I really did learn a lot from your tutorial so if this

doesn't work out I didn't walk away empty handed. (I also have Ubuntu stored on my desktop.) I will post the results as soon as I finish....

trksh22

September 26th, 2008 12:47 PM

Re: HOW TO: Install Ubuntu on a HP TC1100 tablet pc

Quote:

Originally Posted by **Aearenda** (Post 5850142)

6. Still in the text editor, make sure the section that links all the devices together looks something like this:

Code:

```
Section "ServerLayout"
    Identifier      "Default Layout"
    screen "Default Screen"
    InputDevice     "stylus"        "SendCoreEvents"
    InputDevice     "cursor"        "SendCoreEvents"
    InputDevice     "eraser"        "SendCoreEvents"
EndSection
```

*It's the three 'InputDevice' lines that matter here - just add them if they are not there - **don't change anything else!***

Ok, wow. I got it to work. THANK YOU :) I know what I did wrong, too. You see what you put in bold up there, the "don't change anything else" part?

That's what I didn't do!

I thought I was following the directions line by line but I wasn't! In the part of code you mentioned earlier, I had an extra line "InputDevice "touchpad" "Synaptics touchpad" (or something like that). I was removing that line, and then putting in the three so that it looked like the one above. I think my reasoning was that it wasn't a regular laptop so it didn't have a touchpad so it was ok to remove it. Last night I took a break and decided to try again in the morning. It's weird because you made it clear several times throughout this topic that things should be "followed exactly". Anywho, this morning I retried without editing anything and it worked.

In case you were wondering, I AM very embarrassed but happy it works and always has worked and lastly, very, very thankful to you and the others that tried helping me.

Aearenda

September 26th, 2008 07:05 PM

Re: HOW TO: Install Ubuntu on a HP TC1100 tablet pc

That's excellent news, and I'm glad to have been able to help! Don't be embarrassed, we are all learners here, and if you never get anything wrong, you never learn anything new.

The touchpad part isn't needed for the TC1100, but the 'screen' line most certainly is - and that's probably what led to your problem with the screen :-)

Anyway, I hope you enjoy using Ubuntu on your TC1100 - and don't hesitate to ask if you need more help! The difficult thing with the forums is having new messages seen by the right people - there are so many flowing by all the time, I'm sure I only see a very small portion of them. But I'll leave this thread subscribed, so if you need help with the TC1100, I'll definitely see that.

phenest

September 28th, 2008 11:22 AM

Re: HOW TO: Install Ubuntu on a HP TC1100 tablet pc

Quote:

Originally Posted by **trksh22** (Post 5860562)

Ok, wow. I got it to work. THANK YOU :) I know what I did wrong, too. You see what you put in bold up there, the "don't change anything else" part?

That's what I didn't do!

Information for all:

Please remember, that if you're going to follow any guide in the Ubuntu forums, you must do what the instructions tell you to do, and nothing else. It will save you a lot of time and bother of asking the same questions over, and over again, and getting nothing but headaches.](*,)

As an example: some here seem to think that because the pen won't work, that maybe they need to install the drivers. If the guide doesn't tell you to install them, then that is because you don't need to. If you decide to install non-standard drivers, and things break, then that becomes outside of the scope of this guide. If you wish to use non-standard stuff, then do it (at the very least), after you have it working first. :-k

The guide is all you need to make this work. A lot of stuff (particularly drivers), already ships with a basic Ubuntu installation, so this guide is no more than a few 'tweaks'. So don't make it harder for yourself by adding stuff that isn't there.

Have fun. \\:D/

trksh22

September 28th, 2008 01:50 PM

Re: HOW TO: Install Ubuntu on a HP TC1100 tablet pc

Yes, thanks!! I was definitely making everything MUCH harder than it needed to be. Had I just read what was there, then I wouldn't have had to go through days of feeling like I couldn't do it.

Hopefully someone new will come along, read what I went through, and make sure that they follow the directions and know what NOT to do :)

g0ldenchild562

November 6th, 2008 11:47 PM

Re: HOW TO: Install Ubuntu on a HP TC1100 tablet pc

Hi I'm new, how do I edit the xorg.conf? I keep getting an error saying I dont have permission.

zoomy942

November 6th, 2008 11:52 PM

Re: HOW TO: Install Ubuntu on a HP TC1100 tablet pc

Quote:

Originally Posted by **g0ldenchild562** (Post 6122137)

Hi I'm new, how do I edit the xorg.conf? I keep getting an error saying I dont have permission.

open a terminal window and type

```
suod gedit
```

Aearenda

November 7th, 2008 05:00 AM

Re: HOW TO: Install Ubuntu on a HP TC1100 tablet pc

That's a mis-type - it should be

Code:

```
sudo gedit /etc/X11/xorg.conf
```

or better

Code:

```
gksudo gedit /etc/X11/xorg.conf
```

which will ask for the password using a dialog box instead of the terminal.

You can also press ALT and F2 to bring up the 'Run application' box, and do the 'gksudo' version in there - this is the equivalent of start->run on Windows.

Aearenda

November 7th, 2008 05:18 AM

Re: HOW TO: Install Ubuntu on a HP TC1100 tablet pc

I have my TC1100 running Ubuntu 8.10 (Intrepid Ibex) reasonably well now. For the record, I had to...

1. Install the nvidia beta drivers from intrepid-proposed (now in intrepid-updates) to enable rotation (see earlier in this thread) and my external monitor. See <http://albertomilone.com/wordpress/?cat=2> for comments and instructions. Alberto does a great job. This driver presently has a bug with KDE 3 (only affects me if I have compositing turned on) and Wine fonts but if you don't use these it's fine on the TC1100 (<http://www.nvnews.net/vbulletin/showthread.php?t=122350>, and now there's a workaround at <http://nancib.wordpress.com/2008/11/...ine-this-week/>). I tried nouveau but it was too slow. The nv driver works fine if you don't need to use external screens or projectors. The nvidia

driver works fine with metacity compositing and even allows compiz to be turned on, but compiz wasn't stable.

UPDATE: The nv driver supports rotation too. If you don't need to use an external screen or projector, and you don't need 3D acceleration, the nv driver will be enough and it lets you use hibernate and standby properly. [Post 126](#) tells how.

2. UPDATED - 21 November 2008: Install Ndiswrapper and the Windows XP driver for the wireless network, taken from HP's SP30102A update. This seems to be more reliable than ath5k and to associate quicker than ath_pci, for me. It doesn't introduce any of the mouse jerkiness I saw with the backported drivers installed, and doesn't need a newer Network Manager.

So, don't do this: *OLD STEP 2: Install the latest network-manager from PPA to overcome a wireless association timeout with ath_pci, and it is still much slower to associate than Hardy was. See <https://bugs.launchpad.net/ubuntu/+s...er/+bug/292054>.*

UPDATE - 19 November 2008: I have installed linux-backports-modules-intrepid to see if the ath5k driver improves the association times. The process is described in many forum threads - the important bit is to blacklist ath_hal and ath_pci in /etc/modprobe.d/blacklist. This improves association time considerably, and ath5k performs much better than it did during the Intrepid alpha builds. However, there is collateral damage: a new version of ssb is installed as well, but no matching b44 driver, so we lose wired networking! Also, mouse responsiveness suffers for some reason I have yet to fathom. I have kludged a working system by overwriting the updated ssb driver with the stock ssb driver for the same kernel version and then doing 'update-initramfs -u -k `uname -r`' but I'm not recommending this change to anyone else.

LATER THE SAME DAY: There's an update to linux-backports-modules-intrepid in intrepid-proposed that fixes the b44 issue properly. It still leaves the mouse jerky every so often when wireless is enabled, and it seems that this coincides with when Network Manager is re-associating, which it does every two minutes!

3. Install uswsusp to make hibernate worth the effort - otherwise it was slower to wake from hibernate than to do a cold boot. This prevents going to standby, but I've never been able to get it to resume from standby reliably with the nvidia driver anyway. See <https://bugs.launchpad.net/ubuntu/+s...53/comments/18>. I installed uswsusp in Synaptic and then modified /etc/pm/config.d /00sleep_module to contain

Code:

```
SLEEP_MODULE="uswsusp" # was "kernel"
SUSPEND_MODULES="ath_pci ath_rate_sample ath_hal"
```

UPDATE - 29 Nov 2008: Hibernate still fails randomly with the nvidia driver. I suppose it IS still a beta <sig>. This overrides my comment on 16th about it not having failed.

UPDATE - 16 Nov 2008: It seems the unreliability was associated with running the netbook-launcher - that is, it hasn't failed since I stopped running that. Also, to get wireless to resume after hibernation, I find I have to use tc1100-wmi to turn it back on (see below). I made a copy of /usr/lib /pm-utils/sleep.d/10NetworkManager in /etc/pm/sleep.d and added 'echo 1 > /sys/devices/platform /tc1100-wmi/wireless' before the 'thaw' dbus command to wake Network manager. Actually this probably ought to have gone in a separate entry, say '15TurnWirelessOn' with just the echo bit in it. The SUSPEND_MODULES list only needs ath_pci in it. I have blacklisted agpgart in /etc/modprobe.d /blacklist and set agp=off in /boot/grub/menu.lst (see the line starting '# defoptions', on mine it is '# defoptions=quiet splash resume=/dev/sda5 vga=791 agp=off' - note that the leading '#' is important here) and nvAGP="1" in /etc/X11/xorg.conf. Hibernate works for me, but standby won't work reliably with the nvidia driver, and if it does come back, the wireless hardware is clobbered until next reboot.

UPDATED - 15 December 2008: I have found that putting 'Option "NvAGP" "0"' in the xorg.conf file allows standby to work reliably with the nvidia driver, and it doesn't clobber the wireless! I have to turn the wireless on though, using tc1100-wmi.

4. Turn off keypad control for the mouse, when using an external keyboard, from the keyboard preferences (<http://nancib.wordpress.com/2008/03/...-ubuntu-hardy/> has simple instructions, bug is <https://bugs.launchpad.net/ubuntu/+s...rd/+bug/197589>).

5. Fix my external CD drive so it didn't close the drawer as soon as it was opened (<https://bugs.launchpad.net/ubuntu/+s...16/comments/34>).

UPDATE: This is now fixed automatically.

6. Load the tc1100-wmi module to gain control of screen brightness and the wireless kill switch (see earlier in this thread). This now works without the use of sudo. To turn wireless off do

Code:

```
echo 0 > /sys/devices/platform/tc1100-wmi/wireless
```

and to turn it back on

Code:

```
echo 1 > /sys/devices/platform/tc1100-wmi/wireless
```

to enable jogdial brightness do

Code:

```
echo 0 > /sys/devices/platform/tc1100-wmi/jogdial
```

and to return to normal (page up/down) do

Code:

```
echo 1 > /sys/devices/platform/tc1100-wmi/jogdial
```

UPDATE - 19 November 2008: Brightness isn't working every time, neither is the jogdial doing its normal pageup/pagedown function reliably. Probably associated with the xmodmap experiment I have done (but not yet written up) to try to get the side button to control the internal/external screen as in Windows.

UPDATED - 15 December 2008: I have found that it is necessary to use tc1100-wmi to set the normal jogdial mode after waking from standby.

7. Installed wacom-tools and copied the pen details from my Hardy xorg.conf (see earlier in this thread). I believe there is a better way to do this using hal fdi files in Intrepid, but I haven't looked at that yet.

8. Enabled laptop-mode - see Intrepid comments in <https://wiki.ubuntu.com/PowerManagem...load%20cycling>) and then monitor the Load_Cycle_Count in smartctl to see if you need to do anything about your drive.

UPDATE: I have a non-standard 7200 rpm Hitachi drive in my TC1100. I have set /etc/laptop-mode/laptop-mode.conf to use 254 for HDD power management on both battery and AC power, and to do idle spindown after 60 seconds on battery. I don't subscribe to the theory that battery power = increased likelihood of physical shock. YMMV.

9. [ADDED 25 November] Disabled input device hotplugging using evdev. This was crashing X whenever I plugged my keyboard in. I found this the hard way after taking a morning's handwritten notes on a course using Xournal, which does not have a timed-save feature. My notes were lost when I plugged the keyboard in during the lunch break. I reverted to Hardy again for the rest of the course

(luckily I have a dual-boot setup). I later found that the X crash would occur if I put the tablet in the dock, or if I plugged in the normal keyboard. I don't know if this is related to my attempts to modify the side key map (which I have successfully done on Hardy, so that I can switch monitors using the same side key as the Windows XP driver uses), or whether it has had the potential to crash this way from day 1.

I added the following to xorg.conf:

Code:

```
Section "ServerFlags"
    Option "AutoAddDevices" "false"
EndSection
```

And I set the keyboard layout to 105-key international.

Other stuff not specific to the TC1100:

I also upgraded to OpenOffice 3 (but see below) from the PPA (<http://www.theopensourcerer.com/2008...intrepid-ibex/> has a simple how-to), Sunbird 0.9 from Mozilla (just follow their instructions - install in /opt/sunbird), and Thunderbird, xournal, vym, k3b and amarok from the standard repos.

UPDATE: I find amarok stutters a bit - now trying banshee (It turned out not to be Amarok's fault - it works fine). I have also installed vym 1.12.0 by compilation from source to fix a bug on opening saved files when saved with embedded notes. This also allows landscape printing to work properly, which it didn't in Hardy. Xournal doesn't work properly with the pen unless the zoom factor is set to page width.

UPDATE - 21 Nov 2008: I have downgraded OpenOffice again, owing to slowness and some apparent corruption in saved writer documents.

25 Nov - I am beginning to think I need to re-install from scratch, as I have had to muck with so much to get Intrepid working that I no longer trust the installation. There have been too many failed attempts to fix things on my part, and I am not good at cleaning up after failed fixes; so now it keeps biting me, like with the keyboard X crash losing my course notes. Intrepid has been by far the hardest release to install on the TC1100 (note that I don't do upgrades - I do a fresh installation into a separate partition each time, so this isn't due to a long series of upgrades; and I've done every release since Breezy) and it's the first one I have seriously contemplated skipping (which also means Hardy set a high standard that is hard to match in a non-LTS release).

Jan 2009 - In the end, though, Intrepid has ended up being my best-performing release so far! This is because of getting suspend to work properly.

g0ldenchild562

November 7th, 2008 02:36 PM

Re: HOW TO: Install Ubuntu on a HP TC1100 tablet pc

How do I enable the visaul effect? When I do try to enable it, it keeps telling me that the desktop can't enable.

Aearenda

November 7th, 2008 04:18 PM

Re: HOW TO: Install Ubuntu on a HP TC1100 tablet pc

g0ldenchild562: If you are running Hardy, it won't work because the code checks for 64Mb Video RAM and the TC1100 only has 32Mb. You can hack it, but it gives black screens all over the place and isn't worth the effort. In Intrepid, it will turn on, but it doesn't stay on for me.

You can try Metacity compositing - see <http://ubuntuforums.org/showthread.php?t=924124> but see <https://bugs.launchpad.net/ubuntu/+s...ty/+bug/218322>

g0ldenchild562

November 7th, 2008 05:38 PM

Re: HOW TO: Install Ubuntu on a HP TC1100 tablet pc

Hey thanks for the response, I actually have the original Ubuntu 8.10. I don't understand the difference between the hardy or the other versions out there. Anyways I manage to get it working by installing the Envyng driver. The effects are so cool!!!!

g0ldenchild562

November 7th, 2008 09:04 PM

Re: HOW TO: Install Ubuntu on a HP TC1100 tablet pc

I'm still having problems getting the stylus to work. I did everything that was posted on the first page.

Aearenda

November 7th, 2008 09:27 PM

Re: HOW TO: Install Ubuntu on a HP TC1100 tablet pc

Please post (e.g. by copy and paste from a terminal session) the output from

Code:

```
cat /etc/X11/xorg.conf
```

and the version number output from

Code:

```
xsetwacom -V
```

Mine look like this for 8.10:

Code:

```
$ cat /etc/X11/xorg.conf
Section "InputDevice"
    Driver      "wacom"
    Identifier   "stylus"
    Option       "Device"          "/dev/input/wacom"      # Change to
                                # /dev/input/event
                                # for USB
    Option       "Type"             "stylus"
    Option       "ForceDevice"      "ISDV4"          # Tablet PC ONLY
    Option       "Button2"          "3" # This is the line you need for the
stylus button to right click
EndSection
```

```
Section "Device"
    Identifier          "Configured Video Device"
#    Driver "nv"
    Driver "nvidia"
    Option "AddARGBVisuals" "True"
    Option "AddARGBGLXVisuals" "True"
    Option "NoLogo" "True"
    Option "RandRRotation" "on"
    Option "NvAGP" "1"
EndSection

Section "Monitor"
    Identifier          "Configured Monitor"
EndSection

Section "Screen"
    Identifier          "Default Screen"
    Monitor             "Configured Monitor"
    Device              "Configured Video Device"
EndSection

Section "ServerLayout"
    Identifier          "Default Layout"
    screen "Default Screen"
    InputDevice "stylus" "SendCoreEvents"
EndSection

$ xsetwacom -V
0.1.7
```

Ignore the nvidia stuff - concentrate on the stylus bits.

g0ldenchild562

November 8th, 2008 03:53 PM

Re: HOW TO: Install Ubuntu on a HP TC1100 tablet pc

Hey thanks I got it working! Now i need to fix the hibernation error.

Aearenda

November 16th, 2008 05:36 AM

Re: HOW TO: Install Ubuntu on a HP TC1100 tablet pc

I've just added an update to post 116 concerning hibernation with Intrepid.

phenest

November 17th, 2008 03:35 PM

Re: HOW TO: Install Ubuntu on a HP TC1100 tablet pc

Quote:

Originally Posted by **Aearenda** (Post 6190165)

I've just added an update to post 116 concerning hibernation with Intrepid.

I've added a link to post #1 referring users to post #116. Perhaps you could keep that post up to date with new fixes, etc as they occur.

Aearenda

November 18th, 2008 01:06 AM

Re: HOW TO: Install Ubuntu on a HP TC1100 tablet pc

Quote:

Perhaps you could keep that post up to date with new fixes, etc as they occur.

I will - but for now I have retreated to Hardy again as I am on a course where there is occasional access to the internet via wireless, and the slow association problem in Intrepid is unbearable!

EDIT: This was resolved using ndiswrapper and the XP wireless driver - so I'm now back on Intrepid again!

And then later back again to Hardy, because of keyboard hotplugging crashing X...

Aearenda

November 29th, 2008 04:03 AM

Re: HOW TO: Install Ubuntu on a HP TC1100 tablet pc

I have just discovered that in *Hardy* the default "nv" driver will support rotation, and that the striping it shows in colour gradients at times can be prevented. I have the following entries in the "Device" section of /etc/X11/xorg.conf:

Code:

```
Section "Device"
    Identifier          "Configured Video Device"
    Driver              "nv"
    Option              "Rotate"          "RandR"
    Option              "FlatPanel" "True"  # may not be needed
    Option              "FPDither" "True"
EndSection
```

With this, I can at last rotate the screen for use as a tablet AND use standby successfully! I found it in 'man nv' - too obvious!

I haven't tried it with Intrepid yet.

Now if only I could get it to switch to the external screen using the nv driver...

UPDATE: It does work with Intrepid too, so long as metacity compositing is turned off (and generates an X crash if it's on).

gdville

December 14th, 2008 10:19 PM

Re: HOW TO: Install Ubuntu on a HP TC1100 tablet pc

Help! I cannot get the pen working after installing nVidia and wacom-tools and updating xorg.conf:

Code:

```

Section "InputDevice"
    Driver      "wacom"
    Identifier   "stylus"
    Option       "Device"          "/dev/input/wacom"          # Change to
                                # /dev/input/event
                                # for USB
    Option       "Type"            "stylus"
    Option       "ForceDevice"     "ISDV4"          # Tablet PC ONLY
    Option       "Button2"         "3" # This is the line you need for the
stylus button to right click
EndSection

#Section "InputDevice"
#    Driver      "wacom"
#    Identifier   "eraser"
#    Option       "Device"          "/dev/input/wacom"          # Change to
                                # /dev/input/event
                                # for USB
#    Option       "Type"            "eraser"
#    Option       "ForceDevice"     "ISDV4"          # Tablet PC ONLY
#    Option       "Button2"         "3"
#EndSection

#Section "InputDevice"
#    Driver      "wacom"
#    Identifier   "cursor"
#    Option       "Device"          "/dev/wacom"          # Change to
                                # /dev/input/event
                                # for USB
#    Option       "Type"            "cursor"
#    Option       "ForceDevice"     "ISDV4"          # Tablet PC ONLY
#    Option       "Button2"         "3"
#EndSection

Section "Device"
    Identifier    "Configured Video Device"
    Driver        "nvidia"
    Option        "NoLogo"          "True"
    Option        "RandRRotation"   "on"
    Option        "NvAGP"           "1"
EndSection

Section "Monitor"
    Identifier    "Configured Monitor"
EndSection

Section "Screen"
    Identifier    "Default Screen"
    Monitor       "Configured Monitor"
    Device        "Configured Video Device"
    DefaultDepth  24
EndSection

Section "ServerLayout"
    Identifier     "Default Layout"
    screen         "Default Screen"
    InputDevice    "stylus"          "SendCoreEvents"
#    InputDevice    "cursor"         "SendCoreEvents"
#    InputDevice    "eraser"         "SendCoreEvents"

```

```
#           Inputdevice           "Synaptics Touchpad"
EndSection

Section "Module"
    Load           "glx"
EndSection
```

When I query the device with xsetwacom, I get only a prompt back.

I've tried uninstalling nVidia and wacom-tools and reinstalling in various combinations to no avail.

I'll confess to being a newbie, but I had this working on this machine a month ago with a different hard drive. I am nearing wit's end so any new ideas would be very much appreciated.

Aearenda

December 14th, 2008 10:46 PM

Re: HOW TO: Install Ubuntu on a HP TC1100 tablet pc

Xorg.conf looks right. Please post your /var/log/Xorg.0.log. To do that, start a command line, then paste in the following command:

Code:

```
zip xlog.zip /var/log/Xorg.0.log
```

Then go into advanced mode on your forum reply, click the paperclip icon, click the top 'browse' button and find the xlog.zip file just created.

gdville

December 17th, 2008 05:55 PM

Re: HOW TO: Install Ubuntu on a HP TC1100 tablet pc

1 Attachment(s)

Wow, I can't believe you fixed it! I'm not sure what happened, but the pen has magically begun working again. I swear, I didn't do anything since posting, other than shutting down and running windows for a couple days.

I have attached the log file (after stripping out all my passwords and bank account info:EEK:). If you are able to tell what the problem was, it would be gratifying to know what the problem was. I'm sure I won't be the only one to find it useful.

Thanks, it's folks like you that make me love linux!

Aearenda

December 17th, 2008 07:46 PM

Re: HOW TO: Install Ubuntu on a HP TC1100 tablet pc

That log file gets overwritten on each login, so now it shows the successful startup, as far as I can see. Oh well, if it's working then let's leave it working and enjoy Christmas!

rubbafishe

December 20th, 2008 07:12 PM

Re: HOW TO: Install Ubuntu on a HP TC1100 tablet pc

ok so i may sound like a moron here but im fresh to linux and have had too many problems just getting it running.

im trying to get ubuntu 8.10 *intrepid ibex* to run on my Compaq tc1100. unfortunately the install deleted my xp partition by accident and now i've lost all the functions i got the laptop for!

problems i'm having are as follows

no wireless (no internet at all)
no pen functions
no tablet buttons functions
can't read from my regular usb drive (i had to dedicate one to the linux install)

i've been searching forums and websites for days now with no luck. just lots of jargon and patches etc that i cant understand or get to work in the way they seem to for everyone else.

i really love this laptop and need it to work properly as soon as possible. please help. im going insane with this.

Aearenda

December 20th, 2008 08:48 PM

Re: HOW TO: Install Ubuntu on a HP TC1100 tablet pc

Everyone feels that way when they first start - up the creek without a paddle, and with the water running fast! Patience is needed :-). I'm writing this from a docked TC1100 running Ubuntu 8.10 with the pen, side buttons, external monitor, screen rotation and wireless working, and with which USB drives work normally, so I assure you it can be made to work. The only thing I have difficulty with at present is hibernation, but I rarely want to use that since Linux hibernation is no faster for me than a full startup on the TC1100 - I just leave it in standby when I want to save power.

By the way, to reinstall Windows XP, you would need the recovery CDs and a USB CD drive.

First, can you confirm my understanding of how things stand with Ubuntu.

1. You're definitely using a TC1100 (made by HP really, since they took Compaq over after the TC1000 and before the TC1100), and not a TC1000. I have a TC1000 as well, and it is much slower than the TC1100 and significantly different inside.
2. There are variants of the TC1100 - from your recall of running Windows XP, does yours have a Celeron or Pentium-M CPU, and does it have an Atheros or an Intel Wireless card? Don't worry about this now if you don't know.
3. It sounds to me as though you have used a USB-drive installation method instead of the standard CD, probably because you don't have a USB CD drive. I think this because you say 'I had to dedicate one (USB drive) to the linux install'; but alternatively, you could be saying that you have actually installed Ubuntu on the USB drive. Which is it?
4. Somehow in the process the Windows partition has been deleted or become unbootable. Is this because the partition was really deleted, or perhaps because the boot sector on the hard drive was erased? You can explore this by pressing 'ESC' when the system says 'Press Esc to enter menu' as it

starts up (if it does), and then selecting the Windows XP entry on the menu, if it exists. Ubuntu will always add such an entry if it finds an existing Windows partition.

5. Does the wired network interface work? It should just work without any fiddling, once you have logged on to Ubuntu, giving you Internet access using Firefox, assuming the network it is plugged in to will offer it an IP address using DHCP, just like with Windows. If you had to configure Windows specially to make it work when wired, then the same settings will be needed for Ubuntu.

I'll leave it there for now, since the next set of instructions depend greatly on how things stand, and I don't want to make it worse.

rubbafishe

December 21st, 2008 08:13 PM

Re: HOW TO: Install Ubuntu on a HP TC1100 tablet pc

Thanks for helping me out here Aearenda. unfortunately i bought the tc1100 second hand, so i didn't get the recovery disk or any of the authentic windows software. this was one of the reasons i want to switch to ubuntu. i hope its not a problem where i'll have to go and buy XP tablet pc windows to make this work.

let me clear this up a little.

Quote:

Originally Posted by **Aearenda** (Post 6408420)

1. You're definitely using a TC1100 (made by HP really, since they took Compaq over after the TC1000 and before the TC1100), and not a TC1000. I have a TC1000 as well, and it is much slower than the TC1100 and significantly different inside.

2. There are variants of the TC1100 - from your recall of running Windows XP, does yours have a Celeron or Pentium-M CPU, and does it have an Atheros or an Intel Wireless card? Don't worry about this now if you don't know.

3. It sounds to me as though you have used a USB-drive installation method instead of the standard CD, probably because you don't have a USB CD drive. I think this because you say 'I had to dedicate one (USB drive) to the linux install'; but alternatively, you could be saying that you have actually installed Ubuntu on the USB drive. Which is it?

4. Somehow in the process the Windows partition has been deleted or become unbootable. Is this because the partition was really deleted, or perhaps because the boot sector on the hard drive was erased? You can explore this by pressing 'ESC' when the system says 'Press Esc to enter menu' as it starts up (if it does), and then selecting the Windows XP entry on the menu, if it exists. Ubuntu will always add such an entry if it finds an existing Windows partition.

5. Does the wired network interface work? It should just work without any fiddling, once you have logged on to Ubuntu, giving you Internet access using Firefox, assuming the network it is plugged in to will offer it an IP address using DHCP, just like with Windows. If you had to configure Windows specially to make it work when wired, then the same settings will be needed for Ubuntu.

1.I'm definitely using a tc1100, with the cd dock and a usb keyboard and mouse.

2.i think it runs on a Celeron cpu. i managed to get the wireless card working. the problem was i had to turn it on in the bios. now i can connect online but still have no pen features.

3.For the install of Ubuntu, i downloaded ubuntu .iso image and burned it to a cd for install. that works fine when i need it to. the usb drive is just for shuffling all the patches around. its just 2gigs so it gets frustrating.

4.When installing Ubuntu *Intrepid Ibex*, where it asks to select or make a partition, i had the 'clear hard drive for fresh install' option selected. i didnt realise it until after the install. There is no XP or windows option anywhere in the boot menu.

5. now that the wireless works, i'm not too concerned about the wired connection.

so far i have tried various patches, edits to some files like xorg.conf (i have backups of the original file)but the pen and side buttons get no response.

i'm shattered having this machine on my desk with no pen features as thats the main reaon i bought the thing.

Aearenda

December 21st, 2008 08:50 PM

Re: HOW TO: Install Ubuntu on a HP TC1100 tablet pc

Ok, well done in getting the wireless working - that makes the rest much easier!

Let's get the pen working then!

1. Go to system->administration->synaptic package manager

2. When it has finished getting ready, find the package 'wacom-tools'. You can do this by clicking once anywhere in the top-right pane, and then typing 'wacom' (I'd suggest quick search but the index may not be ready yet). When you see 'wacom-tools' appear in the top-right pane, click once on it to clear the little stem-match window that will have appeared.

3. If the package is already installed, the little square on the left of its name will be green; you can skip to step 4 in this case.

3.1 If it isn't green, double-click on wacom-tools, to get it marked for installation, and if a 'Mark additional changes?' dialogue pops up, click on the 'Mark' button to accept them.

3.2 Now click the 'Apply' button on the main toolbar. A confirmation window will appear; click the 'Apply' button, and wait for the changes to be made.

4. Close Synaptic Package Manager.

5. Now press ALT and F2 to bring up the 'run' dialogue.

6. Type (or paste) in the following command:

Code:

```
gedit /etc/X11/xorg.conf
```

7. Press CTRL and A to select the whole file, and the CTRL and C to copy it to the clipboard.

8. Start Firefox and use it to start a 'quick reply' to this message. Begin by telling me whether you had to install wacom-tools or not.
9. Then press CTRL and V to paste the contents of /etc/X11/xorg.conf into the reply, so that I can see what we should do next.
10. Post the reply.
11. Close the text editor.

rubbafeishe

December 22nd, 2008 02:02 PM

Re: HOW TO: Install Ubuntu on a HP TC1100 tablet pc

Wacom-tools was already installed in the package manager.

here is my xorg.conf file:

```
# nvidia-xconfig: X configuration file generated by nvidia-xconfig
# nvidia-xconfig: version 1.0 (buildmeister@builder57) Mon Oct 27 14:37:20 PST 2008
```

```
Section "ServerLayout"
Identifier "Layout0"
Screen 0 "Screen0"
InputDevice "cursor" "SendCoreEvents"
InputDevice "stulus" "SendCoreEvents"
EndSection
```

```
Section "Files"
EndSection
```

```
Section "Module"
Load "dbe"
Load "extmod"
Load "type1"
Load "freetype"
Load "glx"
EndSection
```

```
Section "InputDevice"
Driver "wacom"
Identifier "cursor"
Option "Device" "/dev/ttyS4"
Option "Type" "cursor"
Option "ForceDevice" "ISDV4"
Option "Mode" "Absolute"
Option "Button2" "3"
EndSection
```

```
Section "InputDevice"
Driver "wacom"
Identifier "stylus"
Option "Device" "/dev/ttyS4"
Option "Type" "stylus"
```

```
Option "ForceDevice" "ISDV4"
Option "Mode" "Absolute"
Option "Button2" "3"
EndSection
```

```
Section "InputDevice"
# generated from default
Identifier "Mouse0"
Driver "mouse"
Option "Protocol" "auto"
Option "Device" "/dev/psaux"
Option "Emulate3Buttons" "no"
Option "ZAxisMapping" "4 5"
EndSection
```

```
Section "InputDevice"
# generated from default
Identifier "Keyboard0"
Driver "kbd"
EndSection
```

```
Section "Monitor"
Identifier "Monitor0"
VendorName "Unknown"
ModelName "Unknown"
HorizSync 30.0 - 110.0
VertRefresh 50.0 - 150.0
Option "DPMS"
EndSection
```

```
Section "Device"
Identifier "Device0"
Driver "nvidia"
VendorName "NVIDIA Corporation"
EndSection
```

```
Section "Screen"
Identifier "Screen0"
Device "Device0"
Monitor "Monitor0"
DefaultDepth 24
SubSection "Display"
Depth 24
Modes "1600x1200" "1280x1024" "1024x768" "800x600" "640x480"
EndSubSection
EndSection
```

Aearenda

December 22nd, 2008 06:35 PM

Re: HOW TO: Install Ubuntu on a HP TC1100 tablet pc

Thanks, I think the pen device should be /dev/input/wacom not /dev/ttyS4. That xorg.conf looks 'old'.

To prepare the way for getting the other TC1100 features working, I think it's probably a good idea for you to move your existing xorg.conf out of the way, and use a copy of mine. There are several

differences, which should be clear from the comments.

To move the existing file, I suggest you do ALT and F2 and start gedit as before, then use 'Save As' to save the file in your own folder somewhere. Then close gedit.

Next, do ALT and F2 and this time add 'gksudo' to the front of the command, like so:

Code:

```
gksudo gedit /etc/X11/xorg.conf
```

Select All and remove the existing contents, then paste in the details below, and save the file.

Code:

```
Section "InputDevice"
    Driver      "wacom"
    Identifier   "stylus"
    Option      "Device"      "/dev/input/wacom"
    Option      "Type"        "stylus"
    Option      "ForceDevice"  "ISDV4"          # Tablet PC ONLY
    Option      "Button2"     "3" # This is the line you need for the
stylus button to right click
EndSection

# Don't need cursor or eraser devices on TC1100

Section "Device"
    Identifier   "Configured Video Device"
    Driver       "nvidia"
    # Next two lines are recommended for nvidia beta on Intrepid
    Option "AddARGBVisuals" "True"
    Option "AddARGBLXVisuals" "True"
    # Suppresses the nvidia logo at startup
    Option "NoLogo" "True"
    # Enable screen rotation
    Option "RandRRotation" "on"
    # NvAGP set to 0 makes standby work on TC1100
    Option "NvAGP" "0"
EndSection

Section "Monitor"
    Identifier   "Configured Monitor"
EndSection

Section "Screen"
    Identifier   "Default Screen"
    Monitor      "Configured Monitor"
    Device       "Configured Video Device"
EndSection

Section "ServerLayout"
    Identifier   "Default Layout"
    screen       "Default Screen"
    InputDevice  "stylus"          "SendCoreEvents"
EndSection

Section "ServerFlags"
    # This option allows us to use the TC1100 side keys
    Option "AutoAddDevices" "false"
EndSection
```

This contains settings that remove blockers for standby, rotation and the side keys to work, but other things are needed as well for these - they won't all work for you yet. The important thing at this stage is to test the pen after putting this xorg.conf into place, and then rebooting (or doing 'sudo service gdm restart' from a console after logging out from the main session).

By the way, which version of Nvidia driver have you installed, and how? Mine is 96.43.09-0ubuntu1 which is now in the intrepid-updates repository.

rubbafishe

December 22nd, 2008 07:26 PM

Re: HOW TO: Install Ubuntu on a HP TC1100 tablet pc

I replaced my xorg.conf files contents with yours. this has given me access to a 'rotate screen' option in my nvidia x settings menu. my driver version is the same version 96.43.09, from the repository.

unfortunately i'm still getting no response at all from the pen. ive been working with a usb keyboard and mouse, and i wonder if i should be disconnecting them while testing the pen or updating. maybe they're getting in the way of some sort automatic detection?
i don't know if this is the case thogh, just a thought.

Aearenda

December 22nd, 2008 07:36 PM

Re: HOW TO: Install Ubuntu on a HP TC1100 tablet pc

No need to detach USB devices, it should work regardless.

Yes, rotate screen will work, but we need extra stuff to make the pen rotate, once we've got it working! You'll probably find you can go into standby as well, but the wireless may not work afterwards yet.

Now we need to know what the wacom driver is seeing. Please start a terminal session and enter the following command:

Code:

```
grep [Ww]acom /var/log/Xorg.0.log
```

Please post the output from this command here.

rubbafishe

December 22nd, 2008 07:42 PM

Re: HOW TO: Install Ubuntu on a HP TC1100 tablet pc

here is the result from the terminal.

```
professor@Mandy: ~$ grep [Ww]acom /var/log/Xorg.0.log
(II) LoadModule: "wacom"
(II) Loading /usr/lib/xorg/modules/input//wacom_drv.so
(II) Module wacom: vendor="X.Org Foundation"
(II) Wacom driver level: 47-0.7.9-11 $
(**) stylus device is /dev/input/wacom
(II) XINPUT: Adding extended input device "stylus" (type: Wacom Stylus)
(**) Option "Device" "/dev/input/wacom"
```

Wacom unable to read ISDV4 control data after 3 tries
 Wacom unable to read ISDV4 control data after 3 tries

Aearenda

December 22nd, 2008 08:14 PM

Re: HOW TO: Install Ubuntu on a HP TC1100 tablet pc

Your wacom driver level is old - mine is 47-0.8.1-4.

The Ubuntu xserver-xorg-input-wacom package showing in Synaptic for me is 1:0.8.1.4-0ubuntu3 and it comes from the standard Intrepid repository. I'm wondering how yours comes to be an older version - have you tried to install this from source?

This may not be the problem, but we'd better fix it. First, please post the output from the following terminal commands:

Code:

```
uname -a
apt-cache showpkg xserver-xorg-input-wacom
apt-cache showpkg wacom-tools
```

rubbafighe

December 22nd, 2008 08:26 PM

Re: HOW TO: Install Ubuntu on a HP TC1100 tablet pc

i ran the commands and here are the results.

Code:

```
professor@Mandy:~$ uname -a
Linux Mandy 2.6.27-11-generic #1 SMP Fri Dec 19 16:29:52 UTC 2008 i686 GNU/Linux
professor@Mandy:~$ apt-cache showpkg xserver-xorg-input-wacom
Package: xserver-xorg-input-wacom
Versions:
1:0.8.1.6-1ubuntu2 (/var/lib/dpkg/status)
  Description Language:
      File: /var/lib/dpkg/status
      MD5: 2bd3c8ee2eda769c94b546d751232b99

1:0.8.1.4-0ubuntu3 (/var/lib/apt/lists
/archive.ubuntu.com_ubuntu_dists_intrepid_main_binary-i386_Packages)
  Description Language:
      File: /var/lib/apt/lists
/archive.ubuntu.com_ubuntu_dists_intrepid_main_binary-i386_Packages
      MD5: 2bd3c8ee2eda769c94b546d751232b99
```

Reverse Depends:

```
wacom-tools,xserver-xorg-input-wacom
xserver-xorg-input-all,xserver-xorg-input-wacom
xserver-xorg-core,xserver-xorg-input-wacom 0.7.8
wacom-tools,xserver-xorg-input-wacom
```

Dependencies:

```
1:0.8.1.6-1ubuntu2 - xserver-xorg-core (2 2:1.5.1-1ubuntu3) wacom-tools (0
(null)) wacom-tools (3 1:0.7.9.3-2) wacom-tools (3 1:0.7.9.3-2)
```

```

1:0.8.1.4-0ubuntu3 - xserver-xorg-core (2 2:1.5.1-1ubuntu3) wacom-tools (0
(null)) wacom-tools (3 1:0.7.9.3-2) wacom-tools (3 1:0.7.9.3-2)
Provides:
1:0.8.1.6-1ubuntu2 - xserver-xorg-input-2.1
1:0.8.1.4-0ubuntu3 - xserver-xorg-input-2.1
Reverse Provides:
professor@Mandy:~$ apt-cache showpkg wacom-tools
Package: wacom-tools
Versions:
1:0.8.1.6-1ubuntu2 (/var/lib/dpkg/status)
Description Language:
File: /var/lib/dpkg/status
MD5: b5617785fb45ae13c791e945f0a78a65

1:0.8.1.4-0ubuntu3 (/var/lib/apt/lists
/archive.ubuntu.com_ubuntu_dists_intrepid_main_binary-i386_Packages)
Description Language:
File: /var/lib/apt/lists
/archive.ubuntu.com_ubuntu_dists_intrepid_main_binary-i386_Packages
MD5: b5617785fb45ae13c791e945f0a78a65

Reverse Depends:
xserver-xorg-input-wacom,wacom-tools 1:0.7.9.3-2
xserver-xorg-input-wacom,wacom-tools 1:0.7.9.3-2
xserver-xorg-input-wacom,wacom-tools
ubuntustudio-graphics,wacom-tools
ubuntustudio-graphics,wacom-tools
xserver-xorg-input-wacom,wacom-tools 1:0.7.9.3-2
xserver-xorg-input-wacom,wacom-tools 1:0.7.9.3-2
xserver-xorg-input-wacom,wacom-tools
Dependencies:
1:0.8.1.6-1ubuntu2 - libc6 (2 2.4) libncurses5 (2 5.6+20071006-3) libx11-6 (0
(null)) libxi6 (2 2:1.1.3-1ubuntu3) tcl (0 (null)) tk (0 (null)) xserver-
xorg-input-wacom (0 (null))
1:0.8.1.4-0ubuntu3 - libc6 (2 2.4) libncurses5 (2 5.6+20071006-3) libx11-6 (0
(null)) libxi6 (2 2:1.1.3-1ubuntu3) tcl (0 (null)) tk (0 (null)) xserver-
xorg-input-wacom (0 (null))
Provides:
1:0.8.1.6-1ubuntu2 -
1:0.8.1.4-0ubuntu3 -
Reverse Provides:

```

i had downloaded and tried to install 2 wacom related patches from a help tutorial online, but i wasn't able to install them properly or at all to my knowledge.

Aearenda

December 22nd, 2008 08:52 PM

Re: HOW TO: Install Ubuntu on a HP TC1100 tablet pc

You must be living on the edge with the intrepid-proposed repository enabled, since the 2.6.27-11 kernel hasn't gone to most users yet. I'm still using 2.6.27-9. However, that doesn't account for your wacom driver being *older* than mine! Can you tell me which help tutorial it was that you followed?

In the mean time, I think you should go into Synaptic, right-click on xserver-xorg-input-wacom and choose 'reinstall', and apply the change; then reboot, and see if the driver reported by 'grep [Ww]acom /var/log/Xorg.0.log' is now a later one than 47-0.7.9-11. If it isn't, then we may have to reinstall the kernel as well, since the underlying driver is part of that package.

I've come across material that suggests your tablet may have its pen interface appearing on a different serial port than is standard - I'm researching that at the moment.

UPDATE: it would be useful to see what output the following command gives:

Code:

```
ls /dev/ttyS*
```

After that, if you run the following command and move the pen over the screen, does anything appear on the screen? You should see a stream of characters when it is working, and you will need to press CTRL and C to quit. Try this for each device listed by the previous command until one works, or you get to the end of the list (on mine it lists /dev/ttyS0 /dev/ttyS1 /dev/ttyS2 and /dev/ttyS3, and produces output on ttyS0).

Code:

```
xxd /dev/ttyS0
```

When run for devices that do not function, xxd immediately exits, so just move on to the next one in that case.

Did your pen work with Windows before it was nuked?

rubbafeishe

December 22nd, 2008 09:54 PM

Re: HOW TO: Install Ubuntu on a HP TC1100 tablet pc

so i uninstalled the xserver-xorg-input-wacom package and reinstalled it. now the pen is working! seems like that older patch was the thing getting in the way. thanks a million.

i don't really care about the 3 buttons on the tablet screen but the pressure sensitivity and eraser for my stylus are still inactive

Aearenda

December 22nd, 2008 10:36 PM

Re: HOW TO: Install Ubuntu on a HP TC1100 tablet pc

Well done!

Pressure sensitivity is usually controlled by the application - so in Xournal, for example, you have to turn it on in the options menu. In GIMP, you have to enable the stylus in preferences, otherwise it thinks its a mouse.

The TC1100 pen doesn't have an eraser, so you're out of luck there.

Other things I can steer you through if you want:

1. Make the Q and screen output selection buttons on the side of the TC1100, near the power switch, work
2. Make the table rotate with the screen - otherwise the pen is useless in portrait mode!
3. Test standby and fix wireless if it doesn't recover
4. Set up Cellwriter for on-screen keyboard and letter recognition.

I don't bother with the three pen-operated buttons near the USB sockets.

rubbafishe

December 23rd, 2008 12:10 AM

Re: HOW TO: Install Ubuntu on a HP TC1100 tablet pc

well the 'esc' and 'tab' buttons on the side seem to work alright. even with XP i never really used the Q button or screen output buttons, or the screen rotation. i use it for image editing so keeping landscape is fine.
standby and wireless seem ok.

i understand the tc1100 doesn't necesarrily ship with a 2 ended stylus. since i bought mine second hand, the stylus i got with the thing had a working eraser. i can live without that though.

what would be useful is setting up cellwriter (i have it but cant really figure how it works yet)and change the q button to a shortcut.

thanks for all your help, you've really saved my life here.

Aearenda

December 23rd, 2008 12:50 AM

Re: HOW TO: Install Ubuntu on a HP TC1100 tablet pc

That's cool - Cellwriter is good once you get used to it.

To get the eraser to work I think you need to add the following into xorg.conf, after the stylus section, using gksudo gedit as before:

Code:

```
Section "InputDevice"
    Driver      "wacom"
    Identifier   "eraser"
    Option      "Device"      "/dev/input/wacom"
    Option      "Type"        "eraser"
    Option      "ForceDevice"  "ISDV4"          # Tablet PC ONLY
    Option      "Button2"     "3"
EndSection
```

Then restart GDM as before. However, I can't test this!

Below is how to get both side buttons working. You should write and test the scripts you want the buttons to trigger using a terminal, before doing this - I've called them '/full/path/to/your/script1' and '...2'. An example script to start Xournal might be:

Code:

```
#!/bin/bash
xournal &
exit 0
```

The '&' makes the command start in a separate process, so that the button handler doesn't have to wait for it. Save the file and use the following command to make it executable:

Code:

```
chmod u+x /full/path/to/your/script
```

Here's how to do the button mapping:

1. Create a text file in your home directory called '.Xmodmap' (the dot makes it hidden) containing these two lines:

Code:

```
keycode 159 = XF86Launch2  
keycode 151 = XF86Launch1
```

This does both the Q and the screen button. Next time you log on, it will ask whether to include these settings, but you can make it not ask after that. 151 is the screen button and 159 is the Q button.

2. Use ALT and F2 to start gconf-editor, and then use CTRL and F to find 'metacity' (this is the name of the window manager component)

3. Left-click on the arrow or double-click on 'metacity' in the left pane if it needs to be opened out (it probably does unless you've been here before).

4. Click on 'global_keybindings' in the left pane.

5. Double-click on 'run_command_1' in the right pane; enter the text 'XF86Launch1' (omit quotes) and save it.

6. Double-click on 'run_command_2' in the right pane; enter the text 'XF86Launch2' and save it.

7. Now click on 'keybinding commands' in the left pane.

8. Double-click on 'command_1', enter the text 'sh /full/path/to/your/script1' and save it; here, I enter 'sh /home/me/nvidia-toggle' which is my script to switch to the external screen. I don't know whether the 'sh' is really necessary here, but I do know that it works like this!

9. Double-click on 'command_2', enter the text 'sh /full/path/to/your/script2' and save it; here, I enter 'sh /home/me/rotate-screen' which is my script to rotate the screen and pen together.

10. For previous versions of Ubuntu, that was it. For Intrepid, I had to add the 'Option "AutoAddDevices" "false"' part to xorg.conf, which you have already done, and I had to do this kludge:

Code:

```
sudo mv /etc/rc2.d/S20hotkey-setup /etc/rc2.d/S99hotkey-setup
```

This prevents the hotkey setup from happening too soon.

rubbafeishe

December 23rd, 2008 04:01 PM

Re: HOW TO: Install Ubuntu on a HP TC1100 tablet pc

well thanks again for all the help. this stuff worked and now my tc1100 went from almost unusable to perfectly new in just 3 days! i can't thank you enough for your help.

Aearenda

December 23rd, 2008 04:41 PM

Re: HOW TO: Install Ubuntu on a HP TC1100 tablet pc

I'm glad it's all turned out well in the end!

JHavok

December 28th, 2008 02:25 AM

Re: HOW TO: Install Ubuntu on a HP TC1100 tablet pc

This has been a very informative thread. Thanks to all the instructions here, I've been able to get my TC1100 99% working. I have 1 problem, my wireless does not work at all. I have the Pentium M 1100 with the Intel Pro 2100 wireless card. I already downloaded and installed NDISWRAPPER and the windows xp driver for that wireless card.

I did not get any errors while installing the driver and I can see it as eth1 when I run ifconfig and iwconfig. The problem is that I can't seem to connect to a network and I can't find a way to do it other than via the terminal. The status light on the TC1100 is on for the wireless card but I can't figure out how to access it. When click on the network icon on the top menu bar, i see "wireless is disabled" under Wireless Networks. Also, dhclient fails to get an IP. I have configured eth1 with the essid, key, key type, mode, and rate.

I am not sure if I am missing something here. Any help would be appreciated.

Aearenda

December 28th, 2008 03:49 AM

Re: HOW TO: Install Ubuntu on a HP TC1100 tablet pc

I'm glad everything else is working ok. It's worth knowing that wireless with Ubuntu can be done in several different ways, depending on your needs.

The basic architecture has a set of drivers for the different hardware - you have an Intel card, mine is Atheros. These manage the hardware and do basic tasks. Sometimes we use native Linux drivers, sometimes we use ndiswrapper with the relevant Windows driver.

When you use WPA security on the wireless network, a different bit of code called 'wpa supplicant' is used to manage the encryption keys.

The lowest level at which we can control thing is by using ifconfig and iwconfig, but that's hard work, as you have probably found. The next level involves settings in /etc/network/interfaces, which allows us to use ifup and ifdown to trigger wpa supplicant and the hardware driver to do the right things, get a DHCP address, and set routing and DNS so that it all works. This is good for diagnostics and for servers, but hard for laptops.

The top level uses either 'Network Manager' (which is standard in Ubuntu), or a different tool called 'wicd' to manage alternative settings and remember keys for different networks, and to do all the low level management for us. This is the best way for laptops. I use Network Manager (NM).

With the sketch of how it all links together out of the way, I'd like to suggest some checks on how you have everything configured. I'm assuming you're happy with the command line since the things you've tried need it.

1. When the computer starts, it needs to be told to load the ndiswrapper module. The usual way to do this is to add a line to /etc/modules, so that the file looks something like this:

Code:

```
# /etc/modules: kernel modules to load at boot time.
#
# This file contains the names of kernel modules that should be loaded
# at boot time, one per line. Lines beginning with "#" are ignored.

loop
# lp
fuse
ndiswrapper
```

This is the list from my TC1100 - I use ndiswrapper too.

2. Secondly, we need to prevent the native Linux driver from loading as well - otherwise it will interfere with ndiswrapper. This is done by adding a line to /etc/modprobe.d/blacklist - here is the last part of mine, after the standard entries:

Code:

```
blacklist ipv6
blacklist pcspkr

# Nvidia hibernation
blacklist intel_agp
blacklist agpgart

# Using ndiswrapper
blacklist ath_pci
blacklist ath_hal
blacklist ath_rate_sample
```

Here you can see at the end that I am blacklisting the three parts of the atheros driver. I'm afraid I don't know what the equivalent intel driver is called that you would need to use, but see the next step for a clue.

EDIT: Looks like it should be 'blacklist ipw2100'

3. When you install the Windows driver, you do something like this to register the driver, naming the relevant .inf file:

Code:

```
sudo ndiswrapper -i driver.inf
```

I believe you have done this - the way to check is to run

Code:

```
sudo ndiswrapper -l
```

As a bonus, this will probably tell you the name of the native driver you need to blacklist :-) For me, the output of this command is

Code:

```
net5211 : driver installed
         device (168C:0013) present (alternate driver: ath_pci)
```

4. To give Network Manager control over the wireless hardware, the file /etc/network/interfaces must look something like this:

Code:

```
# This file describes the network interfaces available on your system
# and how to activate them. For more information, see interfaces(5).

# The loopback network interface
auto lo
iface lo inet loopback

# The primary network interface
#auto eth0
#iface eth0 inet dhcp
```

Note that on my system, the only used entry is that for the network loopback device 'lo'. The 'eth0' entry is commented out, and there is no entry for the wireless interface at all. This allows NM to take control. The message you are seeing suggests that on your system NM cannot control the wireless, and this might be a reason why. This behaviour varies a little between Ubuntu releases - which version are you using? (Mine is 8.10, called 'Intrepid Ibex').

5. With all that in place (for consistency, reboot if you have had to change things), Network Manager should be able to scan for networks. However, it is possible to tell NM to not use wireless at all, by right-clicking on its icon in the task bar and unchecking the 'Enable Wireless' checkbox. This checkbox is greyed out if no usable wireless hardware is found. Make sure that your system allows it to be checked.

EDIT: I should add that if NM finds a network, it will list it when you left-click on the icon in the task bar. If you then click on the network, it will ask you for the passphrase, and save it for future use, while attempting to connect. While it is doing that, the icon changes to a whirling dot with (eventually) two green indicators.

6. After doing all this, the next stage is to figure out what is going wrong. You can use the command 'dmesg | more' to look through the system log to see if ndiswrapper is complaining about the hardware, and you can look through '/var/log/daemon.log' to see what Network Manager is up to. Post anything suspicious here, or attach the log file if you wish. It would also be useful to see the output from

Code:

```
sudo lshw -C network
```

Please let us know how you get on!

EDIT: I just thought of something else. If you are using 8.04 (Hardy Heron), there is no way to turn the radio transmitter on or off - you have to do it from Windows XP and then reboot, unless there is a BIOS setting - but there isn't for mine. However, if you are using 8.10, you can turn it on like this:

Code:

```
sudo modprobe tc1100-wmi # only needed once per restart
echo 1 > /sys/devices/platform/tc1100-wmi/wireless
```

After this, to turn it off do

Code:

```
echo 0 > /sys/devices/platform/tc1100-wmi/wireless
```

There's no need for sudo with the echo command. On my TC1100, this turns the wireless indicator on and off when using ndiswrapper, but not with the native drivers. Since the light is on with your TC1100, I suspect the wireless is already on. There may be a note in the logs about the kill switch if

it is off - there's no other way to tell, since 'cat /sys/devices/platform/tc1100-wmi/wireless' always returns 0 regardless.

I added the 'modprobe tc1100-wmi' command to /etc/rc.local, and I can't really remember why now - it ought to be loaded by adding 'tc1100-wmi' to /etc/modules, like ndiswrapper. I suspect it was while I was testing the native driver, and I wanted to have tc1100-wmi loaded and usable, with the wireless turned on, before loading the native driver.

All times are GMT -5. The time now is 01:15 AM.

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