**Page 3 of 3** $\leq$ 1 2 **3**

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

- **Tutorials & Tips** (*http://ubuntuforums.org/forumdisplay.php?f=100*)

- - **HOW TO: Install Ubuntu on a HP TC1100 tablet pc** (*http://ubuntuforums.org /showthread.php?t=563736*)

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## JHavok
*December 28th, 2008 09:12 AM*

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

I am very happy to report that I was able to get my wireless working with very minimal effort. I was following everything you suggested and had pretty much tried all of it already before posting last night. The one part I had not seen was "echo 1 >...." while the status light on the TC1100 had been on the whole time, I figured I'd give it a shot. When I ran those commands, the light flickered for a second and then I was able to see the several wireless networks. I am still new to Linux so pardon my ignorance in asking; how do I make sure that the wireless turns on when the system boots up? Also, I would be interested to know if there was a way that I could script this to turn the card on or off by using one of the pen activated button on the TC1100. My thought is to create a script and bind it to the button for the OSK.

thank you for all the help.

EDIT: I forgot to mention that I am on 8.10.

---

## Aearenda
*December 28th, 2008 05:00 PM*

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

That's great! Well done.

You can add the echo command to start the radio to the file /etc/rc.local, which gets run late in the startup process. It will only work if tc1100-wmi is loaded first - I suggest you add that to the end of /etc/modules.

I have never bothered with the pen-activated buttons, since I don't use the pen very often. This was also true using XP. I have seen discussions of how to make them work, so you should be able to find a way (EDIT: See http://ubuntuforums.org/showthread.php?p=3672701 as linked in Phenest's original howto at the top of this thread). I do use the side buttons, as described earlier in this thread, one for rotation and one for switching the screen to external or projection. I have been experimenting with a wireless on/off toggle script triggered through the normal menu.

In it's simplest form it could look like this:

Code:

```
#!/bin/bash
# Toggle TC1100 wireless on or off

if [ -a ~/.wireless-on ] ; then
        echo "Switching wireless off"
        echo 0 > /sys/devices/platform/tc1100-wmi/wireless
        rm ~/.wireless-on
else
```

```
            echo "Switching wireless on"
            echo 1 > /sys/devices/platform/tc1100-wmi/wireless
            touch ~/.wireless-on
            sudo service NetworkManager restart
    fi
```

This uses a hidden flag file in the home directory to remember the state of the wireless, since the kernel won't tell us. It's not really satisfactory without adding a session-start script to do 'touch ~/.wireless-on' assuming /etc/rc.local has turned the wireless on (or doing that in rc.local too, but you can't use the '~' abbreviation there so it would have to be 'touch /home/your-user/.wireless-on' followed by 'chown your-user /home/your-user/.wireless-on' so that you own it not root); and even then, it needs to be made aware of what happens during standby and hibernate.

I find that NM gets confused if the radio is turned off, and needs to be restarted when the radio is turned back on by 'sudo service NetworkManager restart' in order to reconnect properly, and this needs a password - but here's a way round that:

1. In a terminal run 'sudo visudo'.

2. At the end of the file that is presented, add:

Code:

```
your-user ALL=(ALL) NOPASSWD:/home/your-user/.NMrestart
```

Replace 'your-user' with your username :-)
EDIT: Take care here! If you are not familiar with the 'vi' editor, it is easy to mess this up and lose admin access. Remember that to exit vi without saving changes you press :q! and to add a new line, simply move the cursor to the last line by holding <cursor-down>, press A, then type <enter> and the new line, and finish with <esc>:wq

3. Create the file .NMrestart in your home directory containing:

Code:

```
#!/bin/bash
/etc/init.d/NetworkManager restart
```

4. Make root own that file (otherwise you have a security hole) and set permissions:

Code:

```
chown root.your-user .NMrestart
chmod 750 .NMrestart
```

750 is full for root, read and execute for the owning group (which contains you), and nothing for anyone else. From now on, you'll have to use sudo to edit this file.

5. Replace 'sudo service NetworkManager restart' in the script with 'sudo ~/.NMrestart'

Now you should be able to toggle the network and restart NM without a password. I should add that I haven't tested these instructions!

---

## serversphere

January 4th, 2009 10:55 AM

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

Great thread! Successfully running 8.10 on my ebay-acquired TC1100. Thanks to everyone who contributed to this thread.

In a video outlining the TC (HP promotional I believe), it showed someone rotate the tablet on a desk and the orientation changed without them hitting a button. Is this something the tablet did in Windows? I installed Ubuntu on the machine as soon as I received it, so I have no experience with this function (if it is one). I'm left wondering if this is something that can be tapped and applied to the rotate shell script here?

---

## Aearenda
<div align="right">January 4th, 2009 04:39 PM</div>

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

It used to work like that in Windows XP for me (I have had a TC1100 from new, in 2004), until one day the nvidia drivers got updated, and after that it did strange things like start up normal, rotate when it shouldn't, and then take ages to rotate back again when told to. I gradually began to hate it, and then I discovered Ubuntu :-)

AFAIK, nobody has ever worked out how to detect the hardware rotation state automatically in Linux, either from the docking station or from the keyboard. If we could, then it would be easy to do the script automatically.

---

## serversphere
<div align="right">January 6th, 2009 01:24 AM</div>

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

Just sent mine back to my ebay seller, as it had some screen burn in and he agreed to replace it with another. When I get mine back figuring out what switches when you rotate will become my new mission this weekend. :D

---

## serversphere
<div align="right">January 9th, 2009 09:55 AM</div>

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

Got my TC back and after doing some research, looks like there was a driver for the accelerometer in Windows called *sensor.dll.* I have just ordered recovery disks from HP, so again the waiting game on the delivery man…

---

## kdub
<div align="right">January 22nd, 2009 09:55 PM</div>

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

Just got a tc1100 and am trying to install 8.10, I'm stuck at step 1 tried this command after alt f2:
sudo nano /etc/X11/xorg.conf-
and got this what am I doing wrong?
GNU nano 2.0.7 File: /etc/X11/xorg.conf

# 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.
#
# Note that some configuration settings that could be done previously
# in this file, now are automatically configured by the server and settings
# here are ignored.
#
# 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
[ Read 42 lines ]
^G Get Help ^O WriteOut ^R Read File ^Y Prev Page ^K Cut Text ^C Cur Pos
^X Exit ^J Justify ^W Where Is ^V Next Page ^U UnCut Text^T To Spell
```
thanx
ken

---

## Aearenda

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

Hi kdub - you're not doing anything wrong - that's what the top of that file looks like. 'nano' is a text editor for use inside terminal sessions. You may be more comfortable by doing

Code:

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

instead of using nano - gedit is more like 'notepad' on Windows in how you use it.

Please note that the top post of this thread was written for 7.04, but you are installing 8.10. There will be differences. You will find my notes on 8.10 in post 116 but I'm afraid that's not really a how-to but rather a set of notes for those who have a bit of experience already. I haven't got time right now, but I will look through Post 1 and add some comments about it here if I see anything that need attention.

EDIT: Three things that come to mind so far:
1. Post 136 contains an up to date version of what should appear in /etc/X11/xorg.conf for a standard TC1100 on Intrepid.
2. Standby is different in 8.10 from 7.04 - you should modify /etc/pm/config.d/00SleepModule as discussed in Post 116 step 3.
3. In spite of what it currently says in Post 116, I have resumed using ath_pci for the wireless driver; ndiswrapper was crashing on suspend sometimes. The Network-Manager updates seem to have fixed the association delay problem in the meantime. I need to fix Post 116.

---

## kdub

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

Aearenda,

Thanks.I was starting to feel retarded!
ken

## kdub

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

So,
I cut and pasted your print out, reinstalled the wacom drivers and now my pen works , and my
wireless has worked fine since the initial install.
Next is how do I get rotate, and my buttons to work. After that I need to find a Tablet Journal type
program (is that what cellwriter is?) and work on some way to hibernate/sleep.
thanks,
kdub

## Aearenda

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

Well done! You should be able to get rotation to work based on the earlier posts in this thread.

Cellwriter is a pen input tool for non-pen-aware programs. Take a look at Xournal for a Journal
equivalent!

## kdub

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

Aearenda,
So the commands from before #116 will work with 8.10?
thanks for the help, I really didn't think that I'd ever be able to get this thing up.
thank you,
ken

## Aearenda

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

Yes, rotation itself hasn't changed - the assignment of side buttons (I use the 'Q' button for rotation)
has though, it needs the hotkey setup shifted later in startup - like this:

Code:

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

EDIT: Post 146 has more on the side buttons.

Also note that you need to rotate both the screen and the tablet!

To rotate the tablet sensors and screen to portrait mode use

Code:

```
xrandr -o left
xsetwacom set stylus rotate ccw
```

ccw means counter-clockwise.
To set it back do

Code:

```
xrandr -o normal
xsetwacom set stylus rotate none
```

I also reset the tablet calibration after hibernate or suspend, like this for portrait:

Code:

```
xsetwacom set stylus BottomY 21240
xsetwacom set stylus BottomX 15980
```

And landscape:

Code:

```
xsetwacom set stylus BottomY 15980
xsetwacom set stylus BottomX 21240
```

Your calibration may be different - here's how to check, do this after a normal boot and before any hibernate or standby:

Code:

```
xsetwacom get stylus TopX BottomX TopY BottomY
```

This will list the co-ordinates in order.

Here is the full script I now use for rotation - on my TC1100 it is called without parameters by the 'Q' button.

Code:

```
#!/bin/bash
# Based on work from Patrick Coke & Tim Pope
# Modified for TC1100 by Francisco Athens
# Rewritten for current xsetwacom and xrandr vesrions by Krzysztof Kosiński
# Adapted to work as a toggle - Aearenda

# Takes one parameter:
# normal = go to landscape
# left = go to portrait
# fixcalib = just reset the tablet calibration, don't rotate
# fix = set rotation as it was before standby or hibernate, based on the
~/.screen-rotated flag file
# If absent, toggles rotation based on current X settings
#
# This is the Ubuntu 8.10 version

# Usually we will want to set X rotation
SKIPX="no"
```

```
    # Look at parameters and fix things up for later
    case $1 in
        normal)        # Pretend we found left-rotation
                    ROTATION="left"
                    ;;
        left)          # Pretend we found normal rotation
                    ROTATION="normal"
                    ;;
        fixcalib)       # Just fix the wacom calibration
                    SKIPX="yes"
                    if [ -a ~/.screen-rotated ] ; then
                            # Remember this is reversed...
                            ROTATION="normal"
                    else
                            ROTATION="left"
                    fi
                    ;;
        fix)          # use the flag and reset
                    if [ -a ~/.screen-rotated ] ; then
                            # Remember this is reversed...
                            ROTATION="normal"
                    else
                            ROTATION="left"
                    fi
                    ;;
        *)              # Detect what it is now so we can toggle it
                    ROTATION=`xrandr --verbose --query | \
                    grep 'default connected' | \
                    sed -e 's/^.*(.*) \(.*\) (.*).*$/\1/'`
                    ;;
    esac

    # Now do the required action
    case $ROTATION in

        normal)        xsetwacom set stylus rotate ccw
                    xsetwacom set stylus TopX 0
                    xsetwacom set stylus TopY 0
                    xsetwacom set stylus BottomY 21240
                    xsetwacom set stylus BottomX 15980
                    [ "$SKIPX" = "yes" ] && exit 0
                    touch ~/.screen-rotated
                    xrandr -o left ;;

        left)         xsetwacom set stylus rotate none
                    xsetwacom set stylus TopX 0
                    xsetwacom set stylus TopY 0
                    xsetwacom set stylus BottomY 15980
                    xsetwacom set stylus BottomX 21240
                    [ "$SKIPX" = "yes" ] && exit 0
                    rm ~/.screen-rotated
                    xrandr -o normal ;;

    esac
```

**kdub**

January 24th, 2009 08:31 AM

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

So I would open up a terminal and cut/paste this script in?
thanx
ken

---

## Aearenda

January 24th, 2009 03:45 PM

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

Sorry, I keep assuming you know things - you can do that with the individual commands I gave - but the script at the end needs to be saved in a file. One way would be to:
1. Start the text editor (gedit) from the menu, paste it in there, then save the file as 'rotate-screen'.
2. Then find the 'rotate-screen' file in your home folder using the File Browser (Nautilus), right-click on it and choose 'Properties', select the 'Permissions' tab, and click on 'Allow executing file as a program'.
3. Now you can create an entry for it using the Menu Editor (there's a shortcut to starting that by right-clicking on the Ubuntu logo that opens the menu), by clicking on the menu folder where you want the menu entry to be, and then adding a new item. Give it a meaningful name and comment, browse to the file 'rotate-screen' for the command, and click on the icon button to find a suitable icon - look in /usr/share/icons for lots of choices.

I hope that makes sense - I've got to go out.

---

## kdub

January 24th, 2009 10:00 PM

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

A,
the screen rotates on Q button!!! Thank You!! How did you get cell writer to work to fill in name and password at the login screen?
thanks,
Ken

---

## Aearenda

January 24th, 2009 11:16 PM

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

Well done again! I don't bother with a logon password, I just set it to log me on automatically in 4 seconds so I can choose a different user if I want to by typing quickly. That's on the 'Security' tab in 'Login Window' under 'Administration' from the 'System' menu - except that it only goes to 10 seconds minimum. But do it anyway, and then do 'gksudo gedit /etc/gdm/gdm.conf-custom', find the line that now reads 'TimedLoginDelay=10' and change it to 5, then save the file.

If you don't want to do that, there is a way - see Post 1! But I haven't tried that with 8.10.

Also, you'll want to allow cellwriter to supply gksudo passwords - one way should be to enable 'password dialogs as normal windows', which is now under 'Preferences'->'Assistive Technologies', but I haven't tried that method with 8.10. It is ticked on my system, so maybe I'm just setting the underlying feature. Anyway, here's how I allow this:
1. Press ALT/F2, type 'gconf-editor' and press <ENTER>.
2. Find and click once on 'gksu' under 'apps' in the tree on the left.
3. On the right, check 'disable-grab'.
4. Close gconf-editor

Like most GNOME settings, it takes effect straight away. This opens a possible security hole, in that other malicious apps could intervene and capture your password, but frankly, I think it is extremely unlikely. You'll notice that the screen no longer dims when passwords are requested.

## groadin

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

Hello thanks for this great topic but I have strange problem with stylus.

Everything that should work is working, except stylus sync after rotation. When I rotate the screen, it seems like stylus still have old axis (which should be X now, is still Y and vice versa).

I searched a lot but with no luck. I have full updated ubuntu 8.10. I tried to use wacom-tools from repo, or self compiled using instructions from this forum, or from here. I also tried to use different xsetwacom commands (like xsetwacom set stylus rotate ccw, or xsetwacom set "stylus" Rotate CCW), but no luck.

I dont know what is the problem. I had installed ubuntu 8.10 on TC1100 before, and then rotation was working. Please help, where should I search, and what should I check to get the problem solved?

## Aearenda

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

Groadin, the wiki page you linked hasn't been updated for 8.10. It seems likely to me that the version of xserver-xorg-input-wacom you have installed is confused. I have never installed anything but the standard version of this or wacom-tools in the repository, and it just works on my TC1100.

I would make sure all traces of the non-standard wacom-tools packages are removed, then reinstall wacom-tools and xserver-xorg-input-wacom using Synaptic.

## kdub

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

> Quote:
>
> ---
>
> Originally Posted by **Aearenda** (Post 6612730)
> *Well done again! I don't bother with a logon password, I just set it to log me on automatically in 4 seconds so I can choose a different user if I want to by typing quickly. That's on the 'Security' tab in 'Login Window' under 'Administration' from the 'System' menu - except that it only goes to 10 seconds minimum. But do it anyway, and then do 'gksudo gedit /etc/gdm /gdm.conf-custom', find the line that now reads 'TimedLoginDelay=10' and change it to 5, then save the file.*
>
> *If you don't want to do that, there is a way - see Post 1! But I haven't tried that with 8.10.*
>
> *Also, you'll want to allow cellwriter to supply gksudo passwords - one way should be to enable 'password dialogs as normal windows', which is now under 'Preferences'->'Assistive*

*Technologies', but I haven't tried that method with 8.10. It is ticked on my system, so maybe*
*I'm just setting the underlying feature. Anyway, here's how I allow this:*
*1. Press ALT/F2, type 'gconf-editor' and press <ENTER>.*
*2. Find and click once on 'gksu' under 'apps' in the tree on the left.*
*3. On the right, check 'disable-grab'.*
*4. Close gconf-editor*

*Like most GNOME settings, it takes effect straight away. This opens a possible security hole, in*
*that other malicious apps could intervene and capture your password, but frankly, I think it is*
*extremely unlikely. You'll notice that the screen no longer dims when passwords are*
*requested.*

---

Aearenda,
WoooHoooo! I emailed Mike Levin and asked him about his Cellwriter program.He emailed me this
link:
http://www.krizka.net/2008/01/02/cel...ion-for-gnome/
Seems to work great!!
Now to reread and figure out how to map the monitor button to rotate and Q
to Xournal.
thanks for all your help and patience with this know nothing newbie (gotta give props to my
youngest-15-he gave me the look,sat me down and held my hand step by step also) Man this thing is
like using a GIANT version of my Nokia n800 now!
Again
THANK YOU!!!,
ken
- Show quoted text -

---

## Aearenda

January 25th, 2009 06:08 PM

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

Kdub, I'm glad it's all good. I use the monitor button to tell X to toggle the output to the external
screen and/or projector, just like on Windows - that's why I use Q for rotation. IIRC the Q button
keycode is 159 (9f in hex), the monitor is 151 (0x97) - this should be enough info for you to set the
other button as you desire, since you already have Q doing rotation!

---

## kdub

January 25th, 2009 09:40 PM

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

Quote:

Originally Posted by **Aearenda** (Post 6617054)
*Kdub, I'm glad it's all good. I use the monitor button to tell X to toggle the output to the*
*external screen and/or projector, just like on Windows - that's why I use Q for rotation. IIRC*
*the Q button keycode is 159 (9f in hex), the monitor is 151 (0x97) - this should be enough*
*info for you to set the other button as you desire, since you already have Q doing rotation!*

Wellll,
Not so fast-guess there is a "small problem" with cellwriter the way I have it set up.Seems that when

I need to put in an admin password for say synaptic the password window comes forward and will not allow the cell keyboard to function. Anyone got any ideas?
ken

---

## Aearenda
<div align="right">January 25th, 2009 09:47 PM</div>

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

See the 3rd paragraph in Post 167 :-)

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## kdub
<div align="right">January 26th, 2009 05:27 AM</div>

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

Quote:

> Originally Posted by **Aearenda** (Post 6617941)
> *See the 3rd paragraph in Post 167 :-)*

Aearenda,
In your debt again! Thankyou that worked!
ken

---

## groadin
<div align="right">January 26th, 2009 09:07 AM</div>

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

Quote:

> Originally Posted by **Aearenda** (Post 6616901)
> *Groadin, the wiki page you linked hasn't been updated for 8.10. It seems likely to me that the version of xserver-xorg-input-wacom you have installed is confused. I have never installed anything but the standard version of this or wacom-tools in the repository, and it just works on my TC1100.*
>
> *I would make sure all traces of the non-standard wacom-tools packages are removed, then reinstall wacom-tools and xserver-xorg-input-wacom using Synaptic.*

Thank you. I've just done a clean install, without bothering about compiling wacom-tools. All just updated from repo, and wacom-tools installed by synaptic. Now rotate works perfect.

Almost all works - except stylus buttons. Earlier, I followed instructions from this topic. It's a little messy but I managed to get stylus buttons working, but rotation wasn't.

Could you post some instructions about enabling these three stylus buttons? How to do it with Ubuntu 8.10 in the proper way?

## Aearenda

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

Unfortunately, I don't know how to make them work on 8.10 - I never used these three buttons on Windows either, they felt too far out of the way. It's easy to set up launchers on the task bar that do the same job, just by right-clicking on the relevant entry in the menu and choosing 'add this launcher to panel'.

## galileon

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

Dear Aearenda, Thanks a lot for the tidbits, I managed to get my TC1100 working in perfect shape with Intrepid using your notes :). On another note, I've just cobbled together a Q Button, here http://galileon.co.uk/qbutton/qbutton.php, hope this helps.

Anyways, I've tried to get the wacom buttons to work, using the tutorial here: http://wiki.linuxquestions.org/wiki/...suspend_to_RAM, but it fails with some undeclared constants or something. I'm not in the mood to go driver hacking atm, but I'll look into it when I have some time. :D

## Aearenda

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

That's great, I'm sure people will find your Q-button program useful! The use of sudo that way isn't a complete security hole so long as the executable file belongs to root and is execute-only for ordinary users.

## justnice980

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

if you can find the time. i could really use you help in this issue. i am having similar issues in getting pen functionality. i followed the steps of this tutorial as best i could, but as i am new to ubuntu and the whole linux community i fear i may have done something wrong. i still have xp running on my machine so it's not a huge issue, but i would very much like to get full functionality if i could. thanks for your consideration in this matter. i'm sure you get many questions from noobtards such as myself, so any help at all would be greatly appreciated.

## Aearenda

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

justnice980: Welcome to Ubuntu! I'm happy to help, but I need you to tell us a bit more to get started. Don't worry about everything feeling awkward at first, Linux is not Windows and several things are quite different.

Start a reply to this message now, so you can fill in the answers as we go on.

First what version of Ubuntu do you have? You can check by pressing ALT and F2 to bring up the 'Run Application' box, and then typing (or copying and pasting)

Code:

```
gedit /etc/lsb-release
```

and pressing <ENTER>. On mine it looks like this:

Code:

```
DISTRIB_ID=Ubuntu
DISTRIB_RELEASE=8.10
DISTRIB_CODENAME=intrepid
DISTRIB_DESCRIPTION="Ubuntu 8.10"
```

The most recent is 8.10; tell us what version you have in your reply message. Close gedit without saving by pressing ALT and F4 or using the mouse.

Next, please tell us what version of wacom-tools is installed. You can do that this way:
1. Start 'Synaptic Package Manager' from the system->administration menu, and supply your password if asked.
2. In the 'Quick Search' box type **wacom** and press <Enter> - it should show two packages in the top-right pane. If not,
2.1. Click once on the 'search' button.
2.2. Type **wacom** and press <Enter>
4. You should find that the wacom-tools and xserver-xorg-input-wacom packages are showing in the top-right pane. Do they both have a green box next to them, indicating that they are installed?
5. What is the version number showing as installed and as latest for each of the two packages? The version for Ubuntu 8.10 is currently 1:0.8.1.4-0ubuntu3 for both. If you have different versions, or if either package is not installed, please tell us in your reply.
6. Close Synaptic - don't change anything in there yet.

Finally, please post the contents of your /etc/X11/xorg.conf file, like this:
1. Press ALT and F2 and then type or paste the following command, followed by <ENTER>

Code:

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

2. In the text editor, press CTRL and A to select all, then CTRL and C to copy it.
3. In your reply to this message, click on the 'quote' button above the reply box (it looks like a cartoon speech balloon) and then press CTRL and V to paste the file contents between the markers that appeared.
4. Now switch back to the text editor and press ALT and F4 to close it.

Then post your reply, and we'll see what needs to be done next!

---

## MyR

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

Hello!
So no one has been able to get the soft buttons working?
I patched the drivers following the instructions on the wiki mentioned above with no luck.
I know I can map the side buttons or add a launcher, but those aren't as "cool".

Thanks

# mr_deimos

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

Quote:

> Originally Posted by **Aearenda** (Post 6494456)
> *It used to work like that in Windows XP for me (I have had a TC1100 from new, in 2004), until one day the nvidia drivers got updated, and after that it did strange things like start up normal, rotate when it shouldn't, and then take ages to rotate back again when told to. I gradually began to hate it, and then I discovered Ubuntu :-)*
>
> *AFAIK, nobody has ever worked out how to detect the hardware rotation state automatically in Linux, either from the docking station or from the keyboard. If we could, then it would be easy to do the script automatically.*

How exactly did the automatic rotating work in windows? Do you mean rotating to portrait mode after folding/detaching the keyboard and using the tablet in slate mode, and rotating back to landscape as soon as you opened up the keyboard? Or was it rotating based on device's actual orientation, as modern pda-phones do?

If you mean the second option, there is a dirty way of detecting if tc1100 is in laptop or slate mode. As you might have noticed, the tc1100 fan runs faster when you use it in slate mode. That's because it has hardcoded thermal thresholds that are different for laptop and slate mode. By reading the /proc/acpi/thermal_zone/THRM/trip_points file you can determine this thresholds, and therefore the state of the keyboard.
A script/daemon that would periodically monitor these values and rotate the screen accordingly shouldn't be hard to make.
I found this info by looking for some workaround preventing the fan from speeding up:
http://tabletpcbuzz.com/showpost.php...3&postcount=19

Personally, i don't really like this feature and i'll probably hack the keyboard to disable the position sensor and have the fan run a bit slower in slate mode. But if someone likes the auto rotation and isn't bothered by the fan, checking thermal trip points be the way to go.

And one more thing about rotation: there's a nice daemon written by author of easystroke (great gesture recognition software, highly recommended). It monitors current screen orientation and sets digitizer orientation and subpixel font smoothing (aka cleartype) mode appropriately (works only for gnome).
You can grab it here:
http://easystroke.wiki.sourceforge.net/TipsAndTricks (scroll down to "Don't use Rotate Scripts" section). The great advantage of using it is that the digitizer will always be properly aligned, no matter how you rotated the screen (by a script, by xrandr panel applet, by hand from console).
I think i'll try to modify it a bit to make it remember digitzier calibration data for every screen orientation, since it seems that wacom driver doesn't support different calibration for portrait and landscape modes (or am i wrong?).

Anyway, thanks to everyone contributing to this tread - it was really helpful :D And here's a small contribution from me, a simple wireless toggle script. I have it inserted as a a launcher in gnome-panel:

Code:

```
#!/bin/bash
WIRELESS_STATE=`lsusb|grep Bluetooth`
if [ "x$WIRELESS_STATE" == "x" ] ; then
        echo "WiFi Off, turning on"
        echo 1 > /sys/devices/platform/tc1100-wmi/wireless
else
        echo "WiFi On, turning off"
        echo 0 > /sys/devices/platform/tc1100-wmi/wireless
fi
```

As you might have noticed, doing cat /sys/devices/platform/tc1100-wmi/wireless returns 0 no matter if wireless is on or off, so it's not possible to determine wireless state with that. But disabling wifi also disables bluetooth, and we can detect this easily :D I guess it's a better solution than doing a toggle based on existence of some file, as proposed earlier in this tread.

## Aearenda

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

Quote:

> How exactly did the automatic rotating work in windows? Do you mean rotating to portrait mode after folding/detaching the keyboard and using the tablet in slate mode, and rotating back to landscape as soon as you opened up the keyboard? Or was it rotating based on device's actual orientation, as modern pda-phones do?

It was the keyboard way. I experimented years ago with the connector link that thread discusses but in the end didn't bother with it as my fan was relatively quiet. I was still using Windows then.

Thanks for that great info about detecting the fan settings and the wireless - it's much better than what I was doing! Though I still think I need a flag file for persistence of the wireless on/off setting across reboots.

## mr_deimos

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

Quote:

> Originally Posted by **Aearenda** (Post 6735662)
> *It was the keyboard way. I experimented years ago with the connector link that thread discusses but in the end didn't bother with it as my fan was relatively quiet. I was still using Windows then.*

Ok, thanks for the info. I was beginning to think that maybe threr was another way of detecting rotation and i just screwed up something with windows drivers (using dual boot) ;)

Quote:

> Though I still think I need a flag file for persistence of the wireless on/off setting across reboots.

But why? If you boot up with wireless disabled, bluetooth will be disabled as well and 'lsusb|grep Bluetooth' command will return an empty string. So you can use bluetooth's presence as a flag. Not very clean solution, but does the trick ;)
I actually came up with it, because a simple flag file wasn't enough - if i changed wireless setting in windows, the toggle script needed to be run twice, since the flag wasn't matching real wireless state.

## Aearenda

February 14th, 2009 08:00 PM

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

Hmm, I think it might depend on which drivers are in use, but I'm sure I found the wireless was getting switched on automatically on reboot in Intrepid, regardless of its previous state. Maybe I'm wrong. I don't dual boot so it isn't an issue for me.

EDIT: I just tried it again, and the state does persist over a reboot using ath_pci or ndiswrapper. Maybe it was the ath5k driver that reset it every time, or maybe I was dreaming it. I've modified my script to use lsusb to detect the state and it works fine.

## MyR

February 18th, 2009 02:11 AM

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

I got the wireless to turn on automatically after a resume from suspend.

Code:

```
sudo gedit /etc/pm/sleep.d/15-TurnWirelessOn
```

and enter:
Code:

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

save and exit
then
Code:

```
sudo chmod +x /etc/pm/sleep.d/15-TurnWirelessOn
```

and you should be all set

Thanks everyone! Your posts have been helpful.

## mr_deimos

March 2nd, 2009 05:26 AM

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

Quote:

> Originally Posted by **MyR** (Post 6660139)
> *Hello!*
> *So no one has been able to get the soft buttons working?*
> *I patched the drivers following the instructions on the wiki mentioned above with no luck.*
> *I know I can map the side buttons or add a launcher, but those aren't as "cool".*
> *Thanks*

I got these screen buttons to work. I just needed to follow instructions in post #1 and #4 of this tread:
http://ubuntuforums.org/showthread.p...01#post3672701
Are you sure you patched both src/xdrv/wcmCommon.c and src/xdrv/wcmISDV4.c?
What exactly doesn't work for you?

---

## MyR
March 3rd, 2009 02:00 AM

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

Quote:

> Originally Posted by **mr_deimos** (Post 6823307)
> *I got these screen buttons to work. I just needed to follow instructions in post #1 and #4 of this tread:*
> *http://ubuntuforums.org/showthread.p...01#post3672701*
> *Are you sure you patched both src/xdrv/wcmCommon.c and src/xdrv/wcmISDV4.c?*
> *What exactly doesn't work for you?*

I followed the *new* instructions on the wiki. So now they work perfectly! Awesome! I can delete my xournal and rotate launchers.

Now.. any way to get the SD card reader working? ;]

peace

---

## cstorozuk
March 4th, 2009 10:40 AM

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

Hi, don`t know if I should start a new post, but I was hoping you could help me with my TC1000. I can`t seem to find a USB flash drive boot option in my Select Boot Device window. The items available are:
Removable Devices
ATAPI CD-ROM
Hard Drive

Thanks,

Chris

## MyR

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

Quote:

> Originally Posted by **cstorozuk** (Post 6836723)
> *I can`t seem to find a USB flash drive boot option in my Select Boot Device window. The items available are:*
> *Removable Devices*
> *ATAPI CD-ROM*
> *Hard Drive*

The USB drive is a "removable device".

peace

## Aearenda

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

I have a memory of failing to boot a TC1000 (not TC1100) from a USB flash drive - it would only boot from a Compact Flash device in the CF socket, or from a USB CD drive. This would be a BIOS limitation. Maybe it didn't apply to all BIOS versions, and maybe I'm wrong.

On a different note, my 5-year-old TC1100 is failing - the Nvidia GPU is not found on (re-)boot when it is warm, and the BIOS screen is corrupted along with all later text-mode screens. This is the second TC1100 I've had that did this. I suspect I'm going to have to retire it :-(

## bigbamboo

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

Hi everybody,
I'm a beginner with Ubuntu and I have a problem in configuring 2 things:
1. when I try to install the software to handle the Q-Key, I get the following error:

Code:

```
ifdown: failed to open statefile /var/run/network/ifstate: Permission denied
sh: cannot create /proc/acpi/wmi/WMID/bluetooth: Directory nonexistent
```

it seems I don't have the tc1100-wmi 'module but I don't Know How to get it (I'm on Ubuntu 8.10)
2. I have compiz running so xbindkeys doesn't work:

Code:

```
displayName = :0.0
rc file = /home/eugenio/.xbindkeysrc
rc guile file = /home/eugenio/.xbindkeysrc.scm
```

```
getting rc guile file /home/eugenio/.xbindkeysrc.scm.
WARNING : /home/eugenio/.xbindkeysrc.scm not found or reading not allowed.
3 keys in /home/eugenio/.xbindkeysrc

min_keycode=8    max_keycode=255 (ie: know keycodes)
"/usr/bin/rotate"
    m:0x0 + b:4  (mouse)
"xournal"
    m:0x0 + b:5  (mouse)
"cellwriter"
    m:0x0 + b:6  (mouse)
starting loop...

*** Warning ***
Please verify that there is not another program running
which captures one of the keys captured by xbindkeys.
It seems that there is a conflict, and xbindkeys can't
grab all the keys defined in its configuration file.
```

but I don't know how to configure Compiz to make the pen-button work.

Any advice?

thanks

E. .

## MyR

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

Quote:

Originally Posted by **bigbamboo** (Post 6935207)
*Hi everybody,*
*I'm a beginner with Ubuntu and I have a problem in configuring 2 things:*
*1. when I try to install the software to handle the Q-Key, I get the following error:*

Code:

```
ifdown: failed to open statefile /var/run/network/ifstate: Permission
denied
sh: cannot create /proc/acpi/wmi/WMID/bluetooth: Directory nonexistent
```

*it seems I don't have the tc1100-wmi 'module but I don't Know How to get it (I'm on Ubuntu 8.10)*
*2. I have compiz running so xbindkeys doesn't work:*

Code:

```
displayName = :0.0
rc file = /home/eugenio/.xbindkeysrc
rc guile file = /home/eugenio/.xbindkeysrc.scm
getting rc guile file /home/eugenio/.xbindkeysrc.scm.
WARNING : /home/eugenio/.xbindkeysrc.scm not found or reading not allowed.
3 keys in /home/eugenio/.xbindkeysrc

min_keycode=8    max_keycode=255 (ie: know keycodes)
```

```
    "/usr/bin/rotate"
        m:0x0 + b:4   (mouse)
    "xournal"
        m:0x0 + b:5   (mouse)
    "cellwriter"
        m:0x0 + b:6   (mouse)
    starting loop...

    *** Warning ***
    Please verify that there is not another program running
    which captures one of the keys captured by xbindkeys.
    It seems that there is a conflict, and xbindkeys can't
    grab all the keys defined in its configuration file.
```

*but I don't know how to configure Compiz to make the pen-button work.*

*Any advice?*

*thanks*

*E. .*

1. in a terminal enter:

Code:

```
gksu gedit /etc/modules
```

and on a new line add:

Code:

```
tc1100-wmi
```

then close and save
2. Turn off compiz because you don't really need it? (gasp) Or maybe you could use compiz to launch
your apps instead of xbindkeys.
sudo aptitude install compizconfig-settings-manager
then system > preferences > compizconfig.
next general options > commands > key bindings.
enter the command such as cellwriter. This is just a suggestion; I don't use compiz on the tablet.

peace

## bigbamboo

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

thanks MyR for the quick reply,

1. I already added the line but nothing changed, any further advice?

2. I'm compiz-addicted :) is it unstable on the tablet? I tried to add custom Key-bindings but I don't
Know the correct values for pen-buttons (the key combination I have to bind with cellwriter, xournal
and rotation script)

P.S. cellwriter Keeps asking me for training everytime I reboot, is there a way to save the training?

## MyR

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

Quote:

> Originally Posted by **bigbamboo** (Post 6936319)
> *thanks MyR for the quick reply,*
>
> *1. I already added the line but nothing changed, any further advice?*
>
> *2. I'm compiz-addicted :) is it unstable on the tablet? I tried to add custom Key-bindings but I don't Know the correct values for pen-buttons (the key combination I have to bind with cellwriter, xournal and rotation script)*
>
> *P.S. cellwriter Keeps asking me for training everytime I reboot, is there a way to save the training?*

1. in a terminal type: modprobe tc1100-wmi
to see if you have the module
then type: lsmod | grep tc1100
to see if it is loaded

2. I just tested it out and the stylus buttons work perfectly with compiz without needing to configure it. Maybe you have some plugins enabled that I don't. So I can't help you there, sorry

cellwriter: make sure you trained **all** the characters

peace

## bigbamboo

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

Quote:

> Originally Posted by **MyR** (Post 6937754)
> *1. in a terminal type: modprobe tc1100-wmi*
> *to see if you have the module*
> *then type: lsmod | grep tc1100*
> *to see if it is loaded*
>
> *2. I just tested it out and the stylus buttons work perfectly with compiz without needing to configure it. Maybe you have some plugins enabled that I don't. So I can't help you there, sorry*

> *cellwriter: make sure you trained **all** the characters*
>
> *peace*

well,
it seems that I managed to fix tc1100-wmi module (many many thanks for your support), now I can use Tabatha and q.py.

I still can't bind stylus buttons to something, I turned off Compiz but still the message is that there's "something else" is taking control of that buttons.
Moreover, I can't even bind the "Q" button (same error).

Is there any way I can check what is happening? there are no clues either on "top" command result and on "ps -ef|grep bind" command.

PS cellwriter also fixed!

## bigbamboo

March 22nd, 2009 01:48 PM

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

I made a little step ahead in figuring out what is happening.

I installed xbindkeys-config to create the xbindkeysrc file instead of writing it by hand (literally!).

Now the "q" key works (with Compiz running!), the correct configuration line is:

Code:

```
# Q-key
"path/to/script/"
m:0x0 + c:156
XF86Launch1
```

and not just "c:156"

I can't configure the stylus buttons because as soon as I try to get the configuration code by clicking on "get key" button (as made with the "Q-key") the application crashes with a IO error.

Can you post your .xbindkeysrc file?

## MyR

March 22nd, 2009 02:02 PM

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

my .xbindkeysrc looks like this:

Code:

```
"rotate"
b:30
"xournal"
b:31
"cellwriter"
```

```
b:32
```

## bigbamboo

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

d'oh!

I have to give up.

## alastair.mac

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

the trick is: xbindkeys-config screws up your manualy edited xbindkeysrc.

so use xbindkeys-config to set the Q key, save and exit, then use gedit to add the lines for the screen buttons.

Save a backup of xbindkeysr as xbindkeys-config will trash it if you use it again for anything else.

## xobx

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

Hello
I am not using Linux and my English is very bad.
Is there a ready-made image of Ubuntu for HP TC1100?
I use it to read PDF and surfing.

Translate wit GOOGLE

## xobx

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

No One??

## MyR

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

Quote:

Originally Posted by **xobx** (Post 6966495)
*Hello*

> *I am not using Linux and my English is very bad.*
> *Is there a ready-made image of Ubuntu for HP TC1100?*
> *I use it to read PDF and surfing.*
>
> *Translate wit GOOGLE*

I doubt it

## xobx

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

Why not?
If there are many to work with but do not create themselves.
It would be very nice. :P
Install is not difficult, but the Wacom digitizer with the keys is difficult, when dealing with the terminal can not start.
Windows users also :(

## pvhoward

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

Hey guys, can anyone offer any help regarding the tc1000?

## Aearenda

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

I used to use a TC1000 before I got my TC1100, which is itself now retired, since it has become impossible to restart without losing access to the Nvidia hardware when warm.

I have tried Debian on the TC1000, and Gentoo, and most recently an Ubuntu Intrepid minimal installation with LXDE; but there is no persistent translation service for the Crusoe processor, as there is in Windows, and as a result it is very slow to start up, and to start programs such as Firefox.

## pvhoward

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

ya Im currently successfully running Ubuntu 8.10 and it is very slow (about 5.5 min boot time when my main laptop does hardy heron in about 30-45 seconds),but I was hoping you, or someone else could help me set it up so that it works in either ubuntu or xubuntu, but im not opposed to going what ever distro would work thanks for the reply

## Aearenda

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

Take a look at the LXDE instructions at http://ubuntu-lxde.wikidot.com/intrepid. It uses a lightweight desktop environment called LXDE instead of GNOME but underneath it is Ubuntu.See http://www.lxde.org/ for more details of LXDE.

I use this on the TC1000, and it is much faster than Gnome or Xubuntu. I don't use the built-in wireless on the TC1000, since it is not capable of 54g working. I have never been able to get the TC1000 pen working either.

Once installed, I recommend using hibernate rather than shut-down to speed up your power-on process - it works on mine, but I have to pull the PCMCIA wireless network card out and plug it back in to get it to work on restart.

Overall, though, I'm not sure it's all worth the bother, unless you enjoy trying things like LXDE!

## pvhoward                                                                March 30th, 2009 12:34 PM

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

ahhh... ill give it a try thanks, i appreciate it

## pvhoward                                                                March 30th, 2009 02:59 PM

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

Hey, when the instructions that you linked me to say...

"now we have to edit the slim settings, just as before. However, it can be done without having to log in at all:

sudo nano /etc/slim.conf
nano ~/.xinitrd "

where does the "nano ~/.xinitrd" command go?

## Aearenda                                                                March 30th, 2009 04:35 PM

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

Both of these steps assume that you are still using the console from which you did the installation of the lxde packages earlier. You can't use leafpad since there is no previously-installed GUI in the Intrepid instructions, unlike the Hardy instructions. After opening nano on /etc/slim.conf you should make the change from 'xfce4-session' to 'startlxde' as described on the linked page http://ubuntu-lxde.wikidot.com/slim (but nano uses different keystrokes from leafpad - F6 or CTRL and W are used for searching, and F2 (or CTRL and X) then Y and ENTER to save); then you save that file, and do the second command, which creates ~/.xinitrc (note, not ~/.xinitrd) containing the one line 'exec startlxde'. I hope this makes sense!

## pvhoward                                                                March 31st, 2009 12:26 AM

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

excellent thanks!... I have finished the LXDE install, I really like it, except that I cannot get my wireless working, can you offer any tips?

## Aearenda

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

The TC1000 wireless is an Atmel device I think - it needs firmware. I remember getting it going and then giving up on it since it is so slow (10Mb/s max, not 54), and it always hung the machine on shutdown. I recommend you get an external wireless device (USB or PCMCIA), or buy a dead TC1100 on ebay and use the mini-pci wireless from that (which does work in a TC1000 - I've done it), or indeed get another wireless card from almost any source!

PS - you could try using ndiswrapper to run the wireless using the Windows XP driver, downloaded from HP's website. But again, it's slow, and it only does WEP not WPA, so I suggest you ditch the internal wireless.

## pvhoward

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

Thanks man, I appreciate it.

## mr_deimos

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

Quote:

Originally Posted by **Aearenda** (Post 6987253)
*I recommend you get an external wireless device (USB or PCMCIA), or buy a dead TC1100 on ebay and use the mini-pci wireless from that (which does work in a TC1000 - I've done it), or indeed get another wireless card from almost any source!*

Just run a search for intel pro wireless cards on ebay, they're 100% supported by ubuntu (and they're really solid hardware too):
http://shop.ebay.com/?_from=R40&_trk...All-Categories
You can get them as cheap as 9$ including shipping. TC1100 uses 2100 model, but if you get the newer 2200 - that's even better. Just make sure it's mini-pci, **not** mini pci-e

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

Page 3 of 3 ≤ 1 2 **3**

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