
Install Xubuntu 7.04 on IBM X41 Tablet

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Dieses HOWTO Arbeitet mit der Version 7.04 von Xubuntu

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Getting the Image

[Hier kann man das image runterladen](#)

post Install stuff

Distro auf den aktuellsten Stand bringen

1.
sudo aptitude update

2.
sudo aptitude upgrade

3.
sudo aptitude install linux-headers-generic

Service Partition nicht automatisch mounten

1.
`sudo pico /etc/fstab`

Auskommentieren der zeile mit der Service partition (Type: vfat)

TrackPoint

1.
`sudo pico /etc/X11/xorg.conf`

In der "InputDevice" section mit dem Identifier "Configured Mouse", diese zwei optionen einfügen

1.
Option "EmulateWheel" "true"

2.
Option "EmulateWheelButton" "2"

Wacom Stylus

Installiere die wacom utilities

1.
`sudo aptitude install xserver-xorg-input-wacom wacom-tools`

Suspend Fix

1.
`sudo aptitude install setserial`

2.
`sudo pico /etc/acpi/resume.d/20-setserial.sh`

füge folgendes in das file ein

1.
`#!/bin/bash`

2.
`/bin/setserial /dev/ttyS0 port 0x0200 irq 5 autoconfig`

danach

1.
`sudo chmod +x /etc/acpi/resume.d/20-setserial.sh`

ACPI Swivel Events

When you swivel your tablet's LCD down or up your computer triggers what's called an ACPI event. This is an event similar to pushing the power or sleep buttons -- it's telling the OS about something that's going on with the hardware.

In Linux, ACPI event handling is bundled into a nice neat little package. First, to make sure you can hear the ACPI event when it happens, run the command 'acpi_listen'. The command line will hang there until it picks up on an ACPI event that's occurring, and then it will dump it to the screen. After running acpi_listen, while it's hanging there, swivel your screen down, and then back up. You should get a result similar to this:

1.
`$ acpi_listen`

2.
`ibm/hotkey HKEY 00000080 00005009`

3.
`ibm/hotkey HKEY 00000080 0000500a`

The first HKEY entry is your swivel-down-event identifier and the second is your swivel up. If your values differ from those displayed here, be sure to use your values instead.

Next, what we do is create new ACPI handler entries for the specified events, which we operate on in `/etc/acpi/`.

The `/etc/acpi/` folder generally contains shell files to be executed when events occur. Since there's no shell files to handle swivel events yet, we're gonna go ahead and create some. Yeah, that'd be great.

Use your favorite text editor to modify the following files (the file names are the second line with the `#` symbol).

`/etc/acpi/x41tsdown.sh`

```
1.
#!/bin/sh

2.
#/etc/acpi/x41tsdown.sh

3.
echo 'Rotating screen...'

4.
if [ "`/usr/bin/xrandr -o right -v | grep -i 'randr' | wc -l`" -ne "1" ]

5.
then

6.
echo '!! Something went wrong...'

7.
export DISPLAY=":0.0"
```

8.
export XAUTHORITY=/var/lib/gdm/:.Xauth

9.
/bin/xset -display \$DISPLAY dpms

10.
echo 'Trying to rotate again...'

11.
/usr/bin/xrandr -o right

12.
fi

13.
echo 'Rotating stylus...'

14.
/usr/bin/xsetwacom set stylus rotate 1

15.
echo 'Starting keyboard...'

16.
/usr/bin/xvkbd&

/etc/acpi/x41tsup.sh

1.
#!/bin/sh

2.
#/etc/acpi/x41tsup.sh

3.

echo 'Unrotating screen...'

4.
if ["`/usr/bin/xrandr -o normal -v | grep -i 'randr' | wc -l`" -ne "1"]

5.
then

6.
echo '!! Something went wrong...'

7.
export DISPLAY=":0.0"

8.
export XAUTHORITY=/var/lib/gdm/./Xauth

9.
/bin/xset -display \$DISPLAY dpms

10.
echo 'Trying to unrotate again...'

11.
/usr/bin/xrandr -o normal

12.
fi

13.
echo 'Rotating stylus...'

14.
/usr/bin/xsetwacom set stylus rotate

15.
echo 'Killing keyboard...'

16.
killall xvkbd

make it executable

Then run:

1.
`sudo chown root.root /etc/acpi/x41tsdown.sh`

2.
`sudo chmod 755 /etc/acpi/x41tsdown.sh`

3.
`sudo chown root.root /etc/acpi/x41tsup.sh`

4.
`sudo chmod 755 /etc/acpi/x41tsup.sh`

If you'd like to edit these scripts with your favorite text editor (which, I realize, is most likely `ed`), it's fairly obvious that they're located in `/etc/acpi/` as `x41tsdown.sh` and `x41tsup.sh`. These commands make the shell scripts that handle the events... once we register the events. Let's do that now.

1.
`sudo cat <<EOF > /etc/acpi/events/x41t-swivel-down`

2.
`# /etc/acpi/events/x41t-swivel-down`

3.
`# called when tablet head swivels down`

4.

event=ibm/hotkey HKEY 00000080 00005009

5.
action=/etc/acpi/x41tsdown.sh

6.
EOF

7.
sudo cat <<EOF > /etc/acpi/events/x41t-swivel-up

8.
/etc/acpi/events/x41t-swivel-up

9.
called when tablet head swivels up

10.
event=ibm/hotkey HKEY 00000080 0000500a

11.
action=/etc/acpi/x41tsup.sh

12.
EOF

Now, awaken your inner ACPI daemon with the following commands:

1.
sudo /etc/init.d/acpid force-reload

2.
sudo /etc/init.d/acpid restart

And swivel down your LCD to make sure it works.

Software die ich Installiert habe

Netzwerk

Wireless Netzwerk GUI

```
sudo aptitude install wifi-radar
```

Office

1.

```
sudo aptitude install openoffice.org
```

2.

```
sudo aptitude install dia
```

DTP

```
sudo aptitude install scribus scribus-template
```

Tablet Spezifisch

Sketchpad

[gsumi](#)

1.

sudo aptitude install gsumi<code>

2.
<h4>Notepad</h4>

3.
<code>sudo aptitude install xournal

Related Links

- [ThinkWiki Ubuntu 6.10 on X41 Tablet](#)

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