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 Ubuntu on the Asus Transformer Book T100

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UBUNTU (OR OTHER LINUX) ON THE ASUS TRANSFORMER BOOK T100

by John Wells on 2014-07-23

My plan is to get a "modified" Ubuntu installation on the T100, such that it can be used successfully as a daily machine in both tablet and laptop modes.



Asus Transformer Book T100

Unfortunately, Linux support right now is quite rudimentary, and installing it requires the jump through the hoop. The situation is improving rapidly, however, but will take several weeks to become more than a beta and things improve.

Warning

Essentially, current hardware support for the T100 will be minimal, but we can still get it to run in laptop mode. If possible, we will be using the latest edge builds, so the tablet mode support is good just prior to any OS, come back in October and just install Ubuntu 14.04.

That said, this installation is fairly mature, and Ubuntu 14.04 works very nicely on it. Really, it's the only way to get the most out of the T100 in laptop mode.

This post will be updated as we learn more about the current status.

Current status (updated 23/07/2014)

I update this whenever I manage to get new things working, and will add them to the list as I learn that are confirmed to work such:

- Graphics: Working with amd64/64 (3D graphics) **WIP**
- WiFi: Working, but other things sometimes breaking on reconnecting **WIP**
- Touchscreen: Working, with multi-touch out of the box **WIP**
- Mouse: Working, with gestures **WIP**
- No touch-cable: Working, some configuration needed **WIP**
- Battery monitoring: Working, with patches **WIP**
- Tablet mode (Ubuntu app) (beta only) then just working **WIP**
- File management (Docker) (beta only) then just working **WIP**
- Audio: Working, but not working (currently testing) **WIP**
- Bluetooth & ambient light sensor: Bluetooth not adequate, light sensor works with custom driver **WIP**
- Touchpad: Working, on multi-touch pen **WIP**
- Barcode/1D barcode: Working, with patches **WIP**

1. First steps: Preparing for the Ubuntu

Asus Transformer Book T100

Unfortunately you should now be able to boot Ubuntu directly to the Ubuntu installer!

7. Upgrading to the bleeding edge to improve hardware support

There are still a lot of things to get working. The best way to improve hardware support further is to use the latest development branch of the kernel.

Unfortunately (as of the time of writing), even the latest development Linux kernel (3.16) does not have any hardware support for Skylake CPUs. But we can improve things by adding patches for several. We'll also compile a new experimental kernel for accessing Intel's IFT services from a 32-bit system, as we need that for accurate addressing in some i7000 and i7000 in the latest releases and therefore power management changes. We want to power management changes for our hardware.

Unfortunately you might like to a full working computer with a decent hardware connection. You need to check your system that it should be working. Also, for the following instructions, a secure proxy using a secure file system, or a desktop. Please refer to the IFT patch to change the instructions to some examples. (It uses that as a patch to apply)

On your existing machine, install the packages you need for the kernel:

```
sudo apt-get install git build-essential libssl-dev  
sudo apt-get install makefile libssl-dev  
libssl-dev libssl-dev-dev
```

```
sudo apt-get install apt-get libssl-dev-dev
```

Then create a working directory, change to it, and download the source code:

```
mkdir kernel  
cd kernel  
git clone git://github.com/Intel/linux.git
```

```
cd linux  
git remote add intel git://github.com/Intel/linux.git
```

```
git remote add skel git://github.com/Intel/linux.git
```

```
git remote add i7000 git://github.com/Intel/linux.git
```


