

Debian on Dell Inspiron 6400 laptop.

Source: <http://linux.derkeiler.com/Mailing-Lists/Debian/2006-07/msg01394.html>

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 - *Date:* Sat, 15 Jul 2006 11:29:37 -0700 (PDT)
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Hello everybody!

I am enjoying working on Debian.

I have already installed Debian on 2 my desktop computers. Everything working perfectly.

But experienced troubles on Dell Inspiron 6400 laptop. I am trying to install Debian Linux (2.6.17 Kernel) on Dell Inspiron 6400 laptop.

Basic installation Debian stable (sarge, Kernel 2.4), give me working mouse and touch pad, graphics adapter (just 800x600 resolution).

After upgrade Debian sources on testing (Etch), and Kernel 2.4 --> 2.6.17 I got not working USB mouse (Just working touch pad).

```
cat /dev/psaux
```

```
cat /dev/input/mice
```

give me events only from touch pad. Mouse does not working at all.

I solved trouble with graphics adapter installing 915resolution package. Now it is working fine (resolution 1280x800).

Sound blaster does not working.

I got working dual cpu GenuineIntel(R) CPU T2300 @ 1.66GHz. It start work fine after I compile kernel

with

```
CONFIG_SMP=y
```

```
Processor family ? M
```

```
CONFIG_SCED_MC=y
```

For me very important got working

1. USB mouse working.
2. Sound blaster.
3. Wireless.
4. Suspend mode.

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I will be appreciate any help.
Alex Yakushev.

My steps...

```
vi /etc/apt/sources.list
#deb file:///cdrom/ sarge main

deb http://mirrors.kernel.org/debian/ testing main
contrib non-free
deb-src http://mirrors.kernel.org/debian/ testing main
contrib non-free

deb http://security.debian.org/ testing/updates main
contrib non-free

apt-get update
apt-get upgrade

apt-get install kernel-package
apt-get install initrd-tools
apt-get install libncurses5-dev

cp /home/alex/temporary/linux-2.6.17.tar.gz /usr/src
cd /usr/src
tar -xvzf linux-2.6.17.tar.gz
rm linux-2.6.17.tar.gz

ln -s linux-2.6.17 linux
cd /usr/src/linux
make menuconfig
make-kpkg kernel-image
cd ..
dpkg -i
linux-image-2.6.17_2.6.17-10.00.Custom_i386.deb
cd /boot
mkinitrd -o initrd.img-2.6.17 2.6.17
/boot/grub/menu.lst

title Debian GNU/Linux, kernel 2.6.17
root (hd0,0)
kernel /boot/vmlinuz-2.6.17 root=/dev/hda1 ro
initrd /boot/initrd.img-2.6.17
savedefault
boot

title Debian GNU/Linux, kernel 2.6.17
(recovery mode)
root (hd0,0)
kernel /boot/vmlinuz-2.6.17 root=/dev/hda1 ro
```

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```
single
initrd /boot/initrd.img-2.6.17
savedefault
boot

cd /etc/X11/xorg.conf
# XF86Config-4 (XFree86 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
XF86Config-4 manual page.
# (Type "man XF86Config-4" at the shell prompt.)
#
# This file is automatically updated on
xserver-xfree86 package upgrades *only*
# if it has not been modified since the last upgrade
of the xserver-xfree86
# package.
#
# If you have edited this file but would like it to be
automatically updated
# again, run the following commands as root:
#
# cp /etc/X11/XF86Config-4
/etc/X11/XF86Config-4.custom
# md5sum /etc/X11/XF86Config-4

        /var/lib/xfree86/XF86Config-4.md5sum

# dpkg-reconfigure xserver-xfree86

Section "Files"
FontPath "unix:/7100"
# local font server
# if the local font server has problems, we
can fall
back on these
FontPath "/usr/share/fonts/X11/misc"
FontPath "/usr/lib/X11/fonts/misc"
FontPath
"/usr/share/fonts/X11/cyrillic"
FontPath "/usr/lib/X11/fonts/cyrillic"
FontPath
"/usr/lib/X11/fonts/100dpi:unscaled"
FontPath
"/usr/lib/X11/fonts/75dpi:unscaled"
FontPath "/usr/share/fonts/X11/Type1"
```

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```
FontPath "/usr/lib/X11/fonts/Type1"  
FontPath "/usr/share/fonts/X11/CID"  
FontPath "/usr/lib/X11/fonts/CID"  
FontPath "/usr/lib/X11/fonts/Speedo"  
FontPath "/usr/share/fonts/X11/100dpi"  
FontPath "/usr/lib/X11/fonts/100dpi"  
FontPath "/usr/share/fonts/X11/75dpi"  
FontPath "/usr/lib/X11/fonts/75dpi"  
EndSection
```

```
Section "Module"  
Load "bitmap"  
Load "dbe"  
Load "ddc"  
Load "dri"  
Load "extmod"  
Load "freetype"  
Load "glx"  
Load "int10"  
Load "record"  
Load "type1"  
Load "vbe"  
EndSection
```

```
Section "InputDevice"  
Identifier "Generic Keyboard"  
Driver "keyboard"  
Option "CoreKeyboard"  
Option "XkbRules" "xfree86"  
Option "XkbModel" "pc104"  
Option "XkbLayout" "us"  
EndSection
```

```
Section "InputDevice"  
Identifier "Configured Mouse"  
Driver "mouse"  
# Option "CorePointer"  
Option "Device"  
"/dev/psaux"  
Option "Protocol" "PS/2"  
Option "Emulate3Buttons" "true"  
Option "ZAxisMapping" "4 5"  
EndSection
```

```
Section "InputDevice"  
Identifier "Generic Mouse"  
Driver "mouse"  
Option "CorePointer"  
# Option "SendCoreEvents" "true"  
Option "Device"  
"/dev/input/mice"  
Option "Protocol"
```

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```
"ImPS/2"  
Option "Emulate3Buttons" "true"  
Option "ZAxisMapping" "4 5"  
Option "Buttons" "5"  
EndSection
```

```
Section "Device"  
Identifier "Generic Video Card"  
Driver "i810"  
# Driver "vesa"  
BusID "PCI:0:2:0"  
# VideoRam 12288  
VideoRam 65535  
EndSection
```

```
Section "Monitor"  
Identifier "SEC:0000"  
HorizSync 28-50  
VertRefresh 43-75  
Option "DPMS"  
EndSection
```

```
Section "Screen"  
Identifier "Default Screen"  
Device "Generic Video Card"  
Monitor "SEC:0000"  
DefaultDepth 24  
SubSection "Display"  
Depth 1  
Modes "800x600" "640x480"  
EndSubSection  
SubSection "Display"  
Depth 4  
Modes "800x600" "640x480"  
EndSubSection  
SubSection "Display"  
Depth 8  
Modes "800x600" "640x480"  
EndSubSection  
SubSection "Display"  
Depth 15  
Modes "1280x800" "1024x768"  
"800x600" "640x480"  
EndSubSection  
SubSection "Display"  
Depth 16  
Modes "1280x800" "1024x768"  
"800x600" "640x480"  
EndSubSection  
SubSection "Display"  
Depth 24
```

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```
Modes "1280x800" "1024x768"  
"800x600" "640x480"  
EndSubSection  
EndSection
```

```
Section "ServerLayout"  
Identifier "Default Layout"  
Screen "Default Screen"  
InputDevice "Generic Keyboard"  
InputDevice "Configured Mouse"  
InputDevice "Generic Mouse"  
EndSection
```

```
Section "DRI"  
Mode 0666  
EndSection
```

```
vi /etc/default/915resolution  
#  
# 915resolution default  
#  
# find free modes by /usr/sbin/915resolution -l  
# and set it to MODE  
# e.g. use MODE=54  
MODE=5a  
#  
# and set resolutions for the mode.  
# e.g. use XRESO=1024 and YRESO=768  
XRESO=1280  
YRESO=800  
#  
# We can also set the pixel mode.  
# e.g. use BIT=32  
# Please note that this is optional,  
# you can also leave this value blank.  
BIT=3
```

```
lspci  
0000:00:00.0 Host bridge: Intel Corp.: Unknown device  
27a0 (rev 03)  
0000:00:02.0 VGA compatible controller: Intel Corp.:  
Unknown device 27a2 (rev 03)  
0000:00:02.1 Display controller: Intel Corp.: Unknown  
device 27a6 (rev 03)  
0000:00:1b.0 0403: Intel Corp.: Unknown device 27d8  
(rev 01)  
0000:00:1c.0 PCI bridge: Intel Corp.: Unknown device  
27d0 (rev 01)  
0000:00:1c.3 PCI bridge: Intel Corp.: Unknown device  
27d6 (rev 01)
```

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0000:00:1d.0 USB Controller: Intel Corp.: Unknown device 27c8 (rev 01)
0000:00:1d.1 USB Controller: Intel Corp.: Unknown device 27c9 (rev 01)
0000:00:1d.2 USB Controller: Intel Corp.: Unknown device 27ca (rev 01)
0000:00:1d.3 USB Controller: Intel Corp.: Unknown device 27cb (rev 01)
0000:00:1d.7 USB Controller: Intel Corp.: Unknown device 27cc (rev 01)
0000:00:1e.0 PCI bridge: Intel Corp. 82801 PCI Bridge (rev e1)
0000:00:1f.0 ISA bridge: Intel Corp.: Unknown device 27b9 (rev 01)
0000:00:1f.2 IDE interface: Intel Corp.: Unknown device 27c4 (rev 01)
0000:00:1f.3 SMBus: Intel Corp.: Unknown device 27da (rev 01)
0000:03:00.0 Ethernet controller: Broadcom Corporation BCM4401-B0 100Base-TX (rev 02)
0000:03:01.0 FireWire (IEEE 1394): Ricoh Co Ltd: Unknown device 0832
0000:03:01.1 0805: Ricoh Co Ltd: Unknown device 0822 (rev 19)
0000:03:01.2 System peripheral: Ricoh Co Ltd: Unknown device 0843 (rev 01)
0000:03:01.3 System peripheral: Ricoh Co Ltd: Unknown device 0592 (rev 0a)
0000:03:01.4 System peripheral: Ricoh Co Ltd: Unknown device 0852 (rev 05)
0000:0b:00.0 Network controller: Intel Corp.: Unknown device 4222 (rev 02)

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