

# Install Ubuntu / Linux on a Dell Inspiron 7500

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<http://www.bortzmeyer.org/dell-inspiron-7500.html>

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I installed the operating system Ubuntu on a Dell Inspiron 7500 (<http://support.dell.com/support/edocs/systems/psyd/>) laptop machine. This article is to share the information that I obtained during the process.

While the basic functions are OK, there are problems. As often with laptops, especially very recent machines, a lot of things do not work, or do not work out of the box.

I hope I used only free software but I did not check thoroughly the licences.

This machine has the following hardware and, for each one, I indicate if it worked out of the box, or after manipulations :

- A PCMCIA Ethernet network controller. Works out of the box. Tested at 10 Mb/s.
- ATI Rage Mobility AGP 2x graphics card. Works out of the box.
- ESS Technology ES1978 Maestro 2E sound card. Did not work with "Hardy Heron", despite several tests but works since "Intrepid Ibex".
- Power management system. Not tested.

The network is OK. With "Hardy Heron", Gnome's Network Manager could start it automatically at boot time, may be a consequence of using PCMCIA. I had to log in and to activate the network through Network Manager's menu. With "Intrepid Ibex", it now works.

Here are some details about the machine, as seen by Linux. First, the hardware as seen by lspci :

```
00:00.0 Host bridge: Intel Corporation 440BX/ZX/DX - 82443BX/ZX/DX Host bridge (rev 03)
00:01.0 PCI bridge: Intel Corporation 440BX/ZX/DX - 82443BX/ZX/DX AGP bridge (rev 03)
00:04.0 CardBus bridge: Texas Instruments PCI1225 (rev 01)
00:04.1 CardBus bridge: Texas Instruments PCI1225 (rev 01)
00:07.0 Bridge: Intel Corporation 82371AB/EB/MB PIIX4 ISA (rev 02)
00:07.1 IDE interface: Intel Corporation 82371AB/EB/MB PIIX4 IDE (rev 01)
00:07.2 USB Controller: Intel Corporation 82371AB/EB/MB PIIX4 USB (rev 01)
00:07.3 Bridge: Intel Corporation 82371AB/EB/MB PIIX4 ACPI (rev 03)
00:08.0 Multimedia audio controller: ESS Technology ES1978 Maestro 2E (rev 10)
00:10.0 Communication controller: Agere Systems WinModem 56k (rev 01)
01:00.0 VGA compatible controller: ATI Technologies Inc Rage Mobility P/M AGP 2x (rev 64)
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And the CPU information :

```
processor      : 0
vendor_id    : GenuineIntel
cpu family   : 6
model        : 6
model name   : Mobile Pentium II
stepping     : 10
cpu MHz      : 400.016
cache size   : 256 KB
fdiv_bug     : no
hlt_bug      : no
f00f_bug     : no
coma_bug     : no
fpu          : yes
fpu_exception : yes
cpuid level  : 2
wp           : yes
flags        : fpu vme de pse tsc msr pae mce cx8 sep mtrr pge mca cmov pat p
se36 mmx fxsr up
bogomips     : 801.20
clflush size : 32
```

and the kernel startup messages :

```
[ 0.000000] Initializing cgroup subsys cpuset
[ 0.000000] Initializing cgroup subsys cpu
[ 0.000000] Linux version 2.6.24-19-generic (buildd@terranova) (gcc version 4.2.3 (Ubuntu 4.2.3-2ubuntu7))
[ 0.000000] BIOS-provided physical RAM map:
[ 0.000000] BIOS-e820: 0000000000000000 - 000000000009f800 (usable)
[ 0.000000] BIOS-e820: 000000000009f800 - 00000000000a0000 (reserved)
[ 0.000000] BIOS-e820: 00000000000ea000 - 0000000000100000 (reserved)
[ 0.000000] BIOS-e820: 0000000000100000 - 0000000000fff000 (usable)
[ 0.000000] BIOS-e820: 0000000000fff000 - 0000000000fffc00 (ACPI data)
[ 0.000000] BIOS-e820: 0000000000fffc00 - 0000000010000000 (ACPI NVS)
[ 0.000000] BIOS-e820: 0000000000ff80000 - 0000000100000000 (reserved)
[ 0.000000] OMB HIGHMEM available.
[ 0.000000] 255MB LOWMEM available.
[ 0.000000] Entering add_active_range(0, 0, 65520) 0 entries of 256 used
[ 0.000000] Zone PFN ranges:
[ 0.000000]   DMA             0 ->    4096
[ 0.000000]   Normal          4096 ->   65520
[ 0.000000]   HighMem        65520 ->   65520
[ 0.000000] Movable zone start PFN for each node
[ 0.000000] early_node_map[1] active PFN ranges
[ 0.000000]   0:             0 ->   65520
[ 0.000000] On node 0 totalpages: 65520
[ 0.000000]   DMA zone: 32 pages used for memmap
[ 0.000000]   DMA zone: 0 pages reserved
[ 0.000000]   DMA zone: 4064 pages, LIFO batch:0
[ 0.000000]   Normal zone: 479 pages used for memmap
[ 0.000000]   Normal zone: 60945 pages, LIFO batch:15
[ 0.000000]   HighMem zone: 0 pages used for memmap
[ 0.000000]   Movable zone: 0 pages used for memmap
[ 0.000000] DMI 2.3 present.
[ 0.000000] ACPI: RSDP signature @ 0xC00F72E0 checksum 0
[ 0.000000] ACPI: RSDP 000F72E0, 0014 (r0 DELL )
[ 0.000000] ACPI: RSDT 0FFFAFA6, 002C (r1 DELL I 7500 6040000 LTP 0)
[ 0.000000] ACPI: FACP 0FFFFB65, 0074 (r1 DELL I 7500 6040000 PTL 1)
[ 0.000000] ACPI: DSDT 0FFFAFD2, 4B93 (r1 DELL I 7500 6040000 MSFT 100000B)
[ 0.000000] ACPI: FACS 0FFFFFC0, 0040
[ 0.000000] ACPI: BOOT 0FFFFBD9, 0027 (r1 PTLTD $SBFTBL$ 6040000 LTP 1)
[ 0.000000] ACPI: PM-Timer IO Port: 0x1008
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[ 0.000000] Allocating PCI resources starting at 20000000 (gap: 10000000:eff80000)
[ 0.000000] swsusp: Registered nosave memory region: 000000000009f000 - 00000000000a0000
[ 0.000000] swsusp: Registered nosave memory region: 00000000000a0000 - 00000000000ea000
[ 0.000000] swsusp: Registered nosave memory region: 00000000000ea000 - 0000000000100000
[ 0.000000] Built 1 zonelists in Zone order, mobility grouping on. Total pages: 65009
[ 0.000000] Kernel command line: root=UUID=b86b54bc-39a2-4399-9467-c7cd51b71360 ro quiet splash
[ 0.000000] Local APIC disabled by BIOS -- you can enable it with "lapic"
[ 0.000000] mapped APIC to ffffb000 (0120c000)
[ 0.000000] Enabling fast FPU save and restore... done.
[ 0.000000] Initializing CPU#0
[ 0.000000] PID hash table entries: 1024 (order: 10, 4096 bytes)
[ 0.000000] Detected 400.008 MHz processor.
[ 23.175250] Console: colour VGA+ 80x25
[ 23.175270] console [tty0] enabled
[ 23.176006] Dentry cache hash table entries: 32768 (order: 5, 131072 bytes)
[ 23.176678] Inode-cache hash table entries: 16384 (order: 4, 65536 bytes)
[ 23.217863] Memory: 247812k/262080k available (2177k kernel code, 13700k reserved, 1006k data, 368k init, 0k
[ 23.217906] virtual kernel memory layout:
[ 23.217912]   fixmap : 0xffff4b000 - 0xfffff000 ( 720 kB)
[ 23.217919]   pkmap : 0xff800000 - 0xffc00000 (4096 kB)
[ 23.217926]   vmalloc : 0xd0800000 - 0xff7fe000 ( 751 MB)
[ 23.217933]   lowmem : 0xc0000000 - 0xcfff0000 ( 255 MB)
[ 23.217940]   .init : 0xc0421000 - 0xc047d000 ( 368 kB)
[ 23.217947]   .data : 0xc03204c4 - 0xc041bdc4 (1006 kB)
[ 23.217954]   .text : 0xc0100000 - 0xc03204c4 (2177 kB)
[ 23.217970] Checking if this processor honours the WP bit even in supervisor mode... Ok.
[ 23.218108] SLUB: Genslabs=11, HWalign=32, Order=0-1, MinObjects=4, CPUs=1, Nodes=1
[ 23.298131] Calibrating delay using timer specific routine.. 801.18 BogoMIPS (lpj=1602378)
[ 23.298245] Security Framework initialized
[ 23.298276] SELinux: Disabled at boot.
[ 23.298339] AppArmor: AppArmor initialized
[ 23.298358] Failure registering capabilities with primary security module.
[ 23.298398] Mount-cache hash table entries: 512
[ 23.298890] Initializing cgroup subsys ns
[ 23.298909] Initializing cgroup subsys cpuacct
[ 23.298946] CPU: After generic identify, caps: 0183f9ff 00000000 00000000 00000000 00000000 00000000
[ 23.298996] CPU: L1 I cache: 16K, L1 D cache: 16K
[ 23.299009] CPU: L2 cache: 256K
[ 23.299023] CPU: After all inits, caps: 0183f9ff 00000000 00000000 00000040 00000000 00000000 00000000
[ 23.299070] Compat vDSO mapped to ffffe000.
[ 23.299126] Checking 'hlt' instruction... OK.
[ 23.314258] SMP alternatives: switching to UP code
[ 23.320196] Freeing SMP alternatives: 11k freed
[ 23.320759] Early unpacking initramfs... done
[ 25.019004] ACPI: Core revision 20070126
[ 25.019453] ACPI: Looking for DSDT in initramfs... error, file /DSDT.aml not found.
[ 25.028259] ACPI: setting ELCR to 0200 (from 0820)
[ 25.041354] CPU0: Intel Mobile Pentium II stepping 0a
[ 25.041381] SMP motherboard not detected.
[ 25.041392] Local APIC not detected. Using dummy APIC emulation.
[ 25.041649] Brought up 1 CPUs
[ 25.041742] CPU0 attaching sched-domain:
[ 25.041755]   domain 0: span 01
[ 25.041765]   groups: 01
[ 25.042723] net_namespace: 64 bytes
[ 25.042765] Booting paravirtualized kernel on bare hardware
[ 25.045512] Time: 5:50:57 Date: 09/09/08
[ 25.045698] NET: Registered protocol family 16
[ 25.046940] EISA bus registered
[ 25.046981] ACPI: bus type pci registered
[ 25.048812] PCI: PCI BIOS revision 2.10 entry at 0xfd9ae, last bus=1
[ 25.048827] PCI: Using configuration type 1
[ 25.048903] Setting up standard PCI resources
[ 25.061892] ACPI: EC: Look up EC in DSDT
[ 25.081737] ACPI: Interpreter enabled
[ 25.081754] ACPI: (supports S0 S1 S3 S4 S5)
[ 25.081821] ACPI: Using PIC for interrupt routing
[ 25.084526] ACPI: EC: non-query interrupt received, switching to interrupt mode
[ 25.089369] ACPI: [Package] has zero elements (cf402e60)
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[ 25.091638] ACPI: [Package] has zero elements (cf402ec0)
[ 25.095971] ACPI: [Package] has zero elements (cf402a80)
[ 25.098057] ACPI: [Package] has zero elements (cf402e80)
[ 25.107819] ACPI: [Package] has zero elements (cf4026c0)
[ 25.116595] ACPI: [Package] has zero elements (cdcf4040)
[ 25.117505] ACPI: [Package] has zero elements (cdcf40a0)
[ 25.118201] ACPI: [Package] has zero elements (cdcf4040)
[ 25.118654] ACPI: [Package] has zero elements (cdcf40a0)
[ 25.119127] ACPI: [Package] has zero elements (cdcf4040)
[ 25.120098] ACPI: [Package] has zero elements (cdcf40a0)
[ 25.122929] ACPI: EC: GPE = 0x9, I/O: command/status = 0x66, data = 0x62
[ 25.122944] ACPI: EC: driver started in interrupt mode
[ 25.123220] ACPI: PCI Root Bridge [PCI0] (0000:00)
[ 25.124021] PCI quirk: region 1000-103f claimed by PIIX4 ACPI
[ 25.124038] PCI quirk: region 1040-104f claimed by PIIX4 SMB
[ 25.125079] ACPI: PCI Interrupt Routing Table [_\SB_.PCI0._PRT]
[ 25.125392] ACPI: PCI Interrupt Routing Table [_\SB_.PCI0.AGP._PRT]
[ 25.145498] ACPI: PCI Interrupt Link [LNKA] (IRQs 3 4 5 6 7 9 10 *11 14 15)
[ 25.146030] ACPI: PCI Interrupt Link [LNKB] (IRQs 3 4 5 6 7 9 10 11 14 15) *0, disabled.
[ 25.146486] ACPI: PCI Interrupt Link [LNKC] (IRQs 5 7) *0, disabled.
[ 25.146978] ACPI: PCI Interrupt Link [LNKD] (IRQs 3 4 *5 6 7 9 10 11 14 15)
[ 25.148341] ACPI: Power Resource [PFN0] (off)
[ 25.149203] ACPI: Power Resource [PFN1] (off)
[ 25.149476] Linux Plug and Play Support v0.97 (c) Adam Belay
[ 25.149697] pnp: PnP ACPI init
[ 25.149741] ACPI: bus type pnp registered
[ 25.174993] pnp: PnP ACPI: found 12 devices
[ 25.175011] ACPI: ACPI bus type pnp unregistered
[ 25.175032] PnPBIOS: Disabled by ACPI PNP
[ 25.176539] PCI: Using ACPI for IRQ routing
[ 25.176555] PCI: If a device doesn't work, try "pci=routeirq". If it helps, post a report
[ 25.193559] NET: Registered protocol family 8
[ 25.193572] NET: Registered protocol family 20
[ 25.193958] AppArmor: AppArmor Filesystem Enabled
[ 25.197520] Time: tsc clocksource has been installed.
[ 25.205792] system 00:00: iomem range 0xdc000-0xdffff has been reserved
[ 25.205813] system 00:00: iomem range 0xfff80000-0xffff9fff could not be reserved
[ 25.205829] system 00:00: iomem range 0xffffa0000-0xfffffff could not be reserved
[ 25.205877] system 00:05: ioport range 0x4d0-0x4d1 has been reserved
[ 25.205893] system 00:05: ioport range 0x1040-0x104f has been reserved
[ 25.205909] system 00:05: ioport range 0x3810-0x381f has been reserved
[ 25.205924] system 00:05: ioport range 0x1016-0x103f has been reserved
[ 25.238540] PCI: Bridge: 0000:00:01.0
[ 25.238554] IO window: 2000-2fff
[ 25.238568] MEM window: fc100000-fdffffff
[ 25.238582] PREFETCH window: 30000000-300ffffff
[ 25.238598] PCI: Bus 2, cardbus bridge: 0000:00:04.0
[ 25.238609] IO window: 00001c00-00001cff
[ 25.238621] IO window: 00003000-000030ff
[ 25.238634] PREFETCH window: 20000000-23ffffff
[ 25.238646] MEM window: 24000000-27ffffff
[ 25.238659] PCI: Bus 6, cardbus bridge: 0000:00:04.1
[ 25.238669] IO window: 00003400-000034ff
[ 25.238681] IO window: 00003c00-00003cff
[ 25.238693] PREFETCH window: 28000000-2bffffff
[ 25.238706] MEM window: 2c000000-2ffffff
[ 25.239746] ACPI: PCI Interrupt Link [LNKA] enabled at IRQ 11
[ 25.239761] PCI: setting IRQ 11 as level-triggered
[ 25.239774] ACPI: PCI Interrupt 0000:00:04.0[A] -> Link [LNKA] -> GSI 11 (level, low) -> IRQ 11
[ 25.239799] PCI: Setting latency timer of device 0000:00:04.0 to 64
[ 25.239845] ACPI: PCI Interrupt 0000:00:04.1[A] -> Link [LNKA] -> GSI 11 (level, low) -> IRQ 11
[ 25.239870] PCI: Setting latency timer of device 0000:00:04.1 to 64
[ 25.239928] NET: Registered protocol family 2
[ 25.277924] IP route cache hash table entries: 2048 (order: 1, 8192 bytes)
[ 25.279112] TCP established hash table entries: 8192 (order: 4, 65536 bytes)
[ 25.279400] TCP bind hash table entries: 8192 (order: 4, 65536 bytes)
[ 25.279686] TCP: Hash tables configured (established 8192 bind 8192)
[ 25.279699] TCP reno registered
[ 25.290159] checking if image is initramfs...<7>Switched to high resolution mode on CPU 0
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[ 26.775729] it is
[ 28.547384] Freeing initrd memory: 7304k freed
[ 28.548316] Simple Boot Flag at 0x37 set to 0x1
[ 28.550150] audit: initializing netlink socket (disabled)
[ 28.550210] audit(1220939460.328:1): initialized
[ 28.563937] VFS: Disk quotas dquot_6.5.1
[ 28.564462] Dquot-cache hash table entries: 1024 (order 0, 4096 bytes)
[ 28.565232] io scheduler noop registered
[ 28.565246] io scheduler anticipatory registered
[ 28.565257] io scheduler deadline registered
[ 28.565343] io scheduler cfq registered (default)
[ 28.565381] Limiting direct PCI/PCI transfers.
[ 28.565459] Boot video device is 0000:01:00.0
[ 28.566920] isapnp: Scanning for PnP cards...
[ 28.920463] isapnp: No Plug & Play device found
[ 29.144491] Real Time Clock Driver v1.12ac
[ 29.144996] Serial: 8250/16550 driver $Revision: 1.90 $ 4 ports, IRQ sharing enabled
[ 29.145395] serial8250: ttyS0 at I/O 0x3f8 (irq = 4) is a 16550A
[ 29.148615] 00:04: ttyS0 at I/O 0x3f8 (irq = 4) is a 16550A
[ 29.153649] RAMDISK driver initialized: 16 RAM disks of 65536K size 1024 blocksize
[ 29.154024] input: Macintosh mouse button emulation as /devices/virtual/input/input0
[ 29.154590] PNP: PS/2 Controller [PNP0303:KBC,PNP0f13:MOUE] at 0x60,0x64 irq 1,12
[ 29.168578] serio: i8042 KBD port at 0x60,0x64 irq 1
[ 29.168606] serio: i8042 AUX port at 0x60,0x64 irq 12
[ 29.180156] mice: PS/2 mouse device common for all mice
[ 29.180839] EISA: Probing bus 0 at eisa.0
[ 29.180866] Cannot allocate resource for EISA slot 1
[ 29.180880] Cannot allocate resource for EISA slot 2
[ 29.180891] Cannot allocate resource for EISA slot 3
[ 29.180931] EISA: Detected 0 cards.
[ 29.180944] cpuidle: using governor ladder
[ 29.180954] cpuidle: using governor menu
[ 29.181717] NET: Registered protocol family 1
[ 29.181869] Using IPI No-Shortcut mode
[ 29.182003] registered taskstats version 1
[ 29.182392] Magic number: 8:10:820
[ 29.182599] hash matches device ptyt0
[ 29.182713] BIOS EDD facility v0.16 2004-Jun-25, 0 devices found
[ 29.182723] EDD information not available.
[ 29.184772] Freeing unused kernel memory: 368k freed
[ 29.209029] input: AT Translated Set 2 keyboard as /devices/platform/i8042/serio0/input/input1
[ 31.491444] fuse init (API version 7.9)
[ 31.773583] ACPI: Fan [FAN0] (on)
[ 31.778770] ACPI: Fan [FAN1] (on)
[ 31.894794] ACPI: CPU0 (power states: C1[C1] C2[C2])
[ 31.894829] ACPI: Processor [CPU0] (supports 8 throttling states)
[ 31.914720] ACPI: Invalid passive threshold
[ 31.918280] ACPI: Thermal Zone [THRM] (27 C)
[ 34.699424] SCSI subsystem initialized
[ 35.169521] usbcore: registered new interface driver usbfs
[ 35.169626] usbcore: registered new interface driver hub
[ 35.217347] usbcore: registered new device driver usb
[ 35.740784] USB Universal Host Controller Interface driver v3.0
[ 35.742019] ACPI: PCI Interrupt Link [LNKD] enabled at IRQ 5
[ 35.742036] PCI: setting IRQ 5 as level-triggered
[ 35.742048] ACPI: PCI Interrupt 0000:00:07.2[D] -> Link [LNKD] -> GSI 5 (level, low) -> IRQ 5
[ 35.742092] uhci_hcd 0000:00:07.2: UHCI Host Controller
[ 35.742820] uhci_hcd 0000:00:07.2: new USB bus registered, assigned bus number 1
[ 35.742891] uhci_hcd 0000:00:07.2: irq 5, io base 0x00001060
[ 35.743601] usb usb1: configuration #1 chosen from 1 choice
[ 35.743727] hub 1-0:1.0: USB hub found
[ 35.743761] hub 1-0:1.0: 2 ports detected
[ 35.846465] libata version 3.00 loaded.
[ 36.428943] ata_piix 0000:00:07.1: version 2.12
[ 36.474098] scsi0 : ata_piix
[ 36.520699] scsi1 : ata_piix
[ 36.545346] ata1: PATA max UDMA/33 cmd 0x1f0 ctl 0x3f6 bmdma 0x1050 irq 14
[ 36.545368] ata2: PATA max UDMA/33 cmd 0x170 ctl 0x376 bmdma 0x1058 irq 15
[ 36.652190] Floppy drive(s): fd0 is 1.44M
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[ 36.676256] FDC 0 is a post-1991 82077
[ 37.175175] ata1.00: ATA-5: IBM-DJSA-210, JS2OAB0A, max UDMA/66
[ 37.175198] ata1.00: 19640880 sectors, multi 16: LBA
[ 37.217919] ata1.00: configured for UDMA/33
[ 37.536742] ata2.00: ATAPI: TORISAN DVD-ROM DRD-U624, 1.040000, max UDMA/33
[ 37.708683] ata2.00: configured for UDMA/33
[ 37.709219] scsi 0:0:0:0: Direct-Access    ATA        IBM-DJSA-210    JS2O PQ: 0 ANSI: 5
[ 37.710406] scsi 1:0:0:0: CD-ROM              TORISAN   DVD-ROM DRD-U624 1.04 PQ: 0 ANSI: 5
[ 39.731479] Driver 'sd' needs updating - please use bus_type methods
[ 39.731859] sd 0:0:0:0: [sda] 19640880 512-byte hardware sectors (10056 MB)
[ 39.731936] sd 0:0:0:0: [sda] Write Protect is off
[ 39.731952] sd 0:0:0:0: [sda] Mode Sense: 00 3a 00 00
[ 39.732070] sd 0:0:0:0: [sda] Write cache: enabled, read cache: enabled, doesn't support DPO or FUA
[ 39.732317] sd 0:0:0:0: [sda] 19640880 512-byte hardware sectors (10056 MB)
[ 39.732385] sd 0:0:0:0: [sda] Write Protect is off
[ 39.732400] sd 0:0:0:0: [sda] Mode Sense: 00 3a 00 00
[ 39.732512] sd 0:0:0:0: [sda] Write cache: enabled, read cache: enabled, doesn't support DPO or FUA
[ 39.732534] sda:<4>Driver 'sr' needs updating - please use bus_type methods
[ 39.782078] sdal sda2 < sda5 >
[ 39.783985] sd 0:0:0:0: [sda] Attached SCSI disk
[ 39.822473] sd 0:0:0:0: Attached scsi generic sg0 type 0
[ 39.822575] sr 1:0:0:0: Attached scsi generic sg1 type 5
[ 39.851231] sr0: scsi3-mmc drive: 0x/0x xa/form2 cdda tray
[ 39.851255] Uniform CD-ROM driver Revision: 3.20
[ 39.851525] sr 1:0:0:0: Attached scsi CD-ROM sr0
[ 40.231047] Clocksource tsc unstable (delta = 310185441 ns)
[ 40.235028] Time: acpi_pm clocksource has been installed.
[ 40.382901] Attempting manual resume
[ 40.382920] swsusp: Resume From Partition 8:5
[ 40.382929] PM: Checking swsusp image.
[ 40.383715] PM: Resume from disk failed.
[ 40.490974] kjournald starting. Commit interval 5 seconds
[ 40.491029] EXT3-fs: mounted filesystem with ordered data mode.
[ 56.636331] Linux agpgart interface v0.102
[ 56.982771] agpgart: Detected an Intel 440BX Chipset.
[ 56.991202] agpgart: AGP aperture is 64M @ 0xe0000000
[ 57.180284] Yenta: CardBus bridge found at 0000:00:04.0 [1028:009e]
[ 57.180327] Yenta: Enabling burst memory read transactions
[ 57.180342] Yenta: Using CSCINT to route CSC interrupts to PCI
[ 57.180353] Yenta: Routing CardBus interrupts to PCI
[ 57.180368] Yenta TI: socket 0000:00:04.0, mfunc 0x01021c72, devctl 0x66
[ 57.400072] pci_hotplug: PCI Hot Plug PCI Core version: 0.5
[ 57.420374] Yenta: ISA IRQ mask 0x0498, PCI irq 11
[ 57.420390] Socket status: 30000006
[ 57.476312] Yenta: CardBus bridge found at 0000:00:04.1 [1028:009e]
[ 57.476353] Yenta: Using CSCINT to route CSC interrupts to PCI
[ 57.476365] Yenta: Routing CardBus interrupts to PCI
[ 57.476381] Yenta TI: socket 0000:00:04.1, mfunc 0x01021c72, devctl 0x66
[ 57.720249] Yenta: ISA IRQ mask 0x0498, PCI irq 11
[ 57.720268] Socket status: 30000010
[ 57.788398] shpchp: Standard Hot Plug PCI Controller Driver version: 0.4
[ 57.949143] input: PC Speaker as /devices/platform/pcspkr/input/input2
[ 58.110269] piix4_smbus 0000:00:07.3: Found 0000:00:07.3 device
[ 58.423430] pccard: PCMCIA card inserted into slot 1
[ 61.570880] ACPI: AC Adapter [AC] (on-line)
[ 61.954318] ACPI: Battery Slot [BAT0] (battery present)
[ 61.965975] ACPI: Battery Slot [BAT1] (battery absent)
[ 61.968184] input: Lid Switch as /devices/virtual/input/input3
[ 61.968518] ACPI: Lid Switch [LID]
[ 61.968987] input: Power Button (CM) as /devices/virtual/input/input4
[ 61.981859] ACPI: Power Button (CM) [PWRB]
[ 61.982436] input: Sleep Button (CM) as /devices/virtual/input/input5
[ 61.997828] ACPI: Sleep Button (CM) [SBTN]
[ 63.281395] Synaptics Touchpad, model: 1, fw: 4.3, id: 0x8858a1, caps: 0x0/0x0
[ 63.336725] input: SynPS/2 Synaptics TouchPad as /devices/platform/i8042/serial/input/input6
[ 72.483270] parport_pc 00:03: reported by Plug and Play ACPI
[ 72.483361] parport0: PC-style at 0x378 (0x778), irq 7, dma 3 [PCSPPP,TRISTATE,COMPAT,ECP,DMA]
[ 73.246307] ACPI: PCI Interrupt 0000:00:08.0[A] -> Link [LNKD] -> GSI 5 (level, low) -> IRQ 5
[ 73.539316] dcdbas dcdbas: Dell Systems Management Base Driver (version 5.6.0-3.2)
```

```

[ 73.852876] es1968: clocking to 48000
[ 74.126322] Linux video capture interface: v2.00
[ 78.253602] cs: IO port probe 0x100-0x3af: clean.
[ 78.254850] cs: IO port probe 0x3e0-0x4ff: clean.
[ 78.255453] cs: IO port probe 0x820-0x8ff: clean.
[ 78.255992] cs: IO port probe 0xc00-0xcf7: clean.
[ 78.257121] cs: IO port probe 0xa00-0xaff: clean.
[ 78.258616] cs: IO port probe 0x100-0x3af: clean.
[ 78.259860] cs: IO port probe 0x3e0-0x4ff: clean.
[ 78.260465] cs: IO port probe 0x820-0x8ff: clean.
[ 78.261008] cs: IO port probe 0xc00-0xcf7: clean.
[ 78.262192] cs: IO port probe 0xa00-0xaff: clean.
[ 78.263009] cs: memory probe 0xa0000000-0xa0ffffff: clean.
[ 78.272314] pcmcia: registering new device pcmcial.0
[ 81.042429] eth0: NE2000 Compatible: io 0x300, irq 3, hw_addr 00:00:b4:4b:26:16
[ 81.580492] lp0: using parport0 (interrupt-driven).
[ 81.781559] Adding 465844k swap on /dev/sda5. Priority:-1 extents:1 across:465844k
[ 82.089030] EXT3 FS on sda1, internal journal
[ 84.279729] ip_tables: (C) 2000-2006 Netfilter Core Team
[ 86.207560] ACPI: Error installing notify handler
[ 86.208385] ACPI: ACPI Dock Station Driver
[ 90.239484] NET: Registered protocol family 10
[ 90.241711] lo: Disabled Privacy Extensions
[ 90.805592] apm: BIOS version 1.2 Flags 0x03 (Driver version 1.16ac)
[ 90.805617] apm: overridden by ACPI.
[ 91.015017] ppdev: user-space parallel port driver
[ 91.120252] audit(1220939549.124:2): type=1503 operation="inode_permission" requested_mask="a::" denied_mask=
[ 94.053681] Bluetooth: Core ver 2.11
[ 94.056380] NET: Registered protocol family 31
[ 94.056402] Bluetooth: HCI device and connection manager initialized
[ 94.056419] Bluetooth: HCI socket layer initialized
[ 94.533309] Bluetooth: L2CAP ver 2.9
[ 94.533333] Bluetooth: L2CAP socket layer initialized
[ 94.668401] Bluetooth: RFCOMM socket layer initialized
[ 94.669342] Bluetooth: RFCOMM TTY layer initialized
[ 94.669361] Bluetooth: RFCOMM ver 1.8

```

and, finally, the very simple `xorg.conf`, produced by Ubuntu's install procedure, and which works :

```

# 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" "pcl105"
Option "XkbLayout" "fr"
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 "Device"
Identifier "Configured Video Device"
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 "Synaptics Touchpad"
EndSection
```

Here are a few good sites talking about Ubuntu on this machine : <http://brinley.indicium.com.sg/brinley/dell7500.php> (with pictures), <http://rhermida.dyndns.org/linux/inspiron7500.html> and <http://wwwhsse.fh-hagenberg.at/Studierende/hse02006/inspiron/>.