

Asus P4C800

Wichtig: Zu unterscheiden sind die Mainboards P4C800 und P4C800-Deluxe, da diese unterschiedliche BIOS Versionen brauchen. Eine problemlose Installation ist erst nach einem BIOS Update auf die Version **1016** möglich - davor bringen die IDE und SATA Ports nur Probleme mit sich. Höhere BIOS Versionen sollen ebenfalls Probleme verursachen. Das Netz ist voller Blogbeiträge und Forenposts zum Thema.

Installation funktioniert unter:

- LMDE - eine Variation von Linux Mint 10 (Julia) für Debian:
http://www.linuxmint.com/download_lmde.php

Hier die Daten zum Blech - allerdings müssen alle Angaben zur Grafikkarte ignoriert werden, weil für die Installation des Referenzblechs nicht die 3DLabs Karte genutzt wurde:

- P4 mit 2.8 Ghz und Hyperthreading
- Asus P4C800 Mainboard
- 1 GB RAM (2 Riegel a 512MB) - im Referenzblech wurden vier 512er Riegel verbaut
- 40GB IDE HD
- 3dLabs Wildcat VP990 AGP Grafikkarte mit 512MB und zwei DVI Ausgängen (siehe oben)

Damit es einfach geht, die restlichen Bleche zu flashen hier die ISO: boot.tar.gz

```
00:00.0 Host bridge: Intel Corporation 82875P/E7210 Memory Controller Hub
(rev 02)
  Subsystem: ASUSTeK Computer Inc. Device 80f6
  Control: I/O- Mem+ BusMaster+ SpecCycle- MemWINV- VGASnoop- ParErr-
Stepping- SERR+ FastB2B- DisINTx-
  Status: Cap+ 66MHz- UDF- FastB2B+ ParErr- DEVSEL=fast >TAbort- <TAbort-
<MAbort+ >SERR- <PERR- INTx-
  Latency: 0
  Region 0: Memory at f4000000 (32-bit, prefetchable) [size=64M]
  Capabilities: [e4] Vendor Specific Information: Len=06 <?>
  Capabilities: [a0] AGP version 3.0
    Status: RQ=32 Iso- ArqSz=2 Cal=0 SBA+ ITACoh- GART64- HTrans- 64bit-
FW+ AGP3- Rate=x1,x2,x4
    Command: RQ=1 ArqSz=0 Cal=0 SBA+ AGP+ GART64- 64bit- FW+ Rate=x4
  Kernel driver in use: agpgart-intel
  Kernel modules: i82875p_edac, intel-agp

00:01.0 PCI bridge: Intel Corporation 82875P Processor to AGP Controller
(rev 02) (prog-if 00 [Normal decode])
  Control: I/O+ Mem+ BusMaster+ SpecCycle- MemWINV- VGASnoop- ParErr-
Stepping- SERR+ FastB2B- DisINTx-
  Status: Cap- 66MHz+ UDF- FastB2B+ ParErr- DEVSEL=fast >TAbort- <TAbort-
<MAbort- >SERR- <PERR- INTx-
  Latency: 64
  Bus: primary=00, secondary=01, subordinate=01, sec-latency=64
  Memory behind bridge: fc900000-fe9fffff
```

```
Prefetchable memory behind bridge: e7e00000-efefffff
Secondary status: 66MHz+ FastB2B+ ParErr- DEVSEL=medium >TAbort-
<TAbort- <MAbort+ <SERR- <PERR-
BridgeCtl: Parity- SERR- NoISA- VGA+ MAbort- >Reset- FastB2B-
PriDiscTmr- SecDiscTmr- DiscTmrStat- DiscTmrSERREn-
Kernel modules: shpchp

00:06.0 System peripheral: Intel Corporation 82875P/E7210 Processor to I/O
Memory Interface (rev 02)
Control: I/O- Mem+ BusMaster- SpecCycle- MemWINV- VGASnoop- ParErr-
Stepping- SERR- FastB2B- DisINTx-
Status: Cap- 66MHz- UDF- FastB2B+ ParErr- DEVSEL=fast >TAbort- <TAbort-
<MAbort- >SERR- <PERR- INTx-
Region 0: Memory at fecf0000 (32-bit, non-prefetchable) [size=4K]

00:1d.0 USB Controller: Intel Corporation 82801EB/ER (ICH5/ICH5R) USB UHCI
Controller #1 (rev 02) (prog-if 00 [UHCI])
Subsystem: ASUSTeK Computer Inc. P4P800/P5P800 series motherboard
Control: I/O+ Mem- BusMaster+ SpecCycle- MemWINV- VGASnoop- ParErr-
Stepping- SERR- FastB2B- DisINTx-
Status: Cap- 66MHz- UDF- FastB2B+ ParErr- DEVSEL=medium >TAbort-
<TAbort- <MAbort- >SERR- <PERR- INTx-
Latency: 0
Interrupt: pin A routed to IRQ 16
Region 4: I/O ports at eec0 [size=32]
Kernel driver in use: uhci_hcd

00:1d.1 USB Controller: Intel Corporation 82801EB/ER (ICH5/ICH5R) USB UHCI
Controller #2 (rev 02) (prog-if 00 [UHCI])
Subsystem: ASUSTeK Computer Inc. P4P800/P5P800 series motherboard
Control: I/O+ Mem- BusMaster+ SpecCycle- MemWINV- VGASnoop- ParErr-
Stepping- SERR- FastB2B- DisINTx-
Status: Cap- 66MHz- UDF- FastB2B+ ParErr- DEVSEL=medium >TAbort-
<TAbort- <MAbort- >SERR- <PERR- INTx-
Latency: 0
Interrupt: pin B routed to IRQ 19
Region 4: I/O ports at ef00 [size=32]
Kernel driver in use: uhci_hcd

00:1d.2 USB Controller: Intel Corporation 82801EB/ER (ICH5/ICH5R) USB UHCI
Controller #3 (rev 02) (prog-if 00 [UHCI])
Subsystem: ASUSTeK Computer Inc. P4P800/P5P800 series motherboard
Control: I/O+ Mem- BusMaster+ SpecCycle- MemWINV- VGASnoop- ParErr-
Stepping- SERR- FastB2B- DisINTx-
Status: Cap- 66MHz- UDF- FastB2B+ ParErr- DEVSEL=medium >TAbort-
<TAbort- <MAbort- >SERR- <PERR- INTx-
Latency: 0
Interrupt: pin C routed to IRQ 18
Region 4: I/O ports at ef20 [size=32]
Kernel driver in use: uhci_hcd
```

00:1d.3 USB Controller: Intel Corporation 82801EB/ER (ICH5/ICH5R) USB UHCI Controller #4 (rev 02) (prog-if 00 [UHCI])
Subsystem: ASUSTeK Computer Inc. P4P800/P5P800 series motherboard
Control: I/O+ Mem- BusMaster+ SpecCycle- MemWINV- VGASnoop- ParErr- Stepping- SERR- FastB2B- DisINTx-
Status: Cap- 66MHz- UDF- FastB2B+ ParErr- DEVSEL=medium >TAbort- <TAbort- <MAbort- >SERR- <PERR- INTx-
Latency: 0
Interrupt: pin A routed to IRQ 16
Region 4: I/O ports at ef40 [size=32]
Kernel driver in use: uhci_hcd

00:1d.7 USB Controller: Intel Corporation 82801EB/ER (ICH5/ICH5R) USB2 EHCI Controller (rev 02) (prog-if 20 [EHCI])
Subsystem: ASUSTeK Computer Inc. P4P800/P5P800 series motherboard
Control: I/O- Mem+ BusMaster+ SpecCycle- MemWINV- VGASnoop- ParErr- Stepping- SERR+ FastB2B- DisINTx-
Status: Cap+ 66MHz- UDF- FastB2B+ ParErr- DEVSEL=medium >TAbort- <TAbort- <MAbort- >SERR- <PERR- INTx-
Latency: 0
Interrupt: pin D routed to IRQ 23
Region 0: Memory at febff800 (32-bit, non-prefetchable) [size=1K]
Capabilities: [50] Power Management version 2
Flags: PMEClk- DSI- D1- D2- AuxCurrent=375mA PME(D0+,D1-,D2-,D3hot+,D3cold+)
Status: D0 NoSoftRst- PME-Enable- DSel=0 DScale=0 PME-
Capabilities: [58] Debug port: BAR=1 offset=00a0
Kernel driver in use: ehci_hcd

00:1e.0 PCI bridge: Intel Corporation 82801 PCI Bridge (rev c2) (prog-if 00 [Normal decode])
Control: I/O+ Mem+ BusMaster+ SpecCycle- MemWINV- VGASnoop- ParErr- Stepping- SERR+ FastB2B- DisINTx-
Status: Cap- 66MHz- UDF- FastB2B+ ParErr- DEVSEL=fast >TAbort- <TAbort- <MAbort- >SERR- <PERR- INTx-
Latency: 0
Bus: primary=00, secondary=02, subordinate=02, sec-latency=64
I/O behind bridge: 0000d000-0000dfff
Memory behind bridge: fea00000-feafffff
Secondary status: 66MHz- FastB2B+ ParErr- DEVSEL=medium >TAbort- <TAbort- <MAbort- <SERR- <PERR-
BridgeCtl: Parity- SERR+ NoISA- VGA- MAbort- >Reset- FastB2B-
PriDiscTmr- SecDiscTmr- DiscTmrStat- DiscTmrSERREN-
Kernel modules: shpchp

00:1f.0 ISA bridge: Intel Corporation 82801EB/ER (ICH5/ICH5R) LPC Interface Bridge (rev 02)
Control: I/O+ Mem+ BusMaster+ SpecCycle+ MemWINV- VGASnoop- ParErr- Stepping- SERR- FastB2B- DisINTx-
Status: Cap- 66MHz- UDF- FastB2B+ ParErr- DEVSEL=medium >TAbort- <TAbort- <MAbort- >SERR- <PERR- INTx-

Latency: 0
Kernel modules: iTCO_wdt, intel-rng

00:1f.1 IDE interface: Intel Corporation 82801EB/ER (ICH5/ICH5R) IDE Controller (rev 02) (prog-if 8a [Master SecP PriP])

Subsystem: ASUSTeK Computer Inc. P4P800/P5P800 series motherboard

Control: I/O+ Mem+ BusMaster+ SpecCycle- MemWINV- VGASnoop- ParErr- Stepping- SERR- FastB2B- DisINTx-

Status: Cap- 66MHz- UDF- FastB2B+ ParErr- DEVSEL=medium >TAbort- <TAbort- <MAbort- >SERR- <PERR- INTx-

Latency: 0

Interrupt: pin A routed to IRQ 18

Region 0: I/O ports at 01f0 [size=8]

Region 1: I/O ports at 03f4 [size=1]

Region 2: I/O ports at 0170 [size=8]

Region 3: I/O ports at 0374 [size=1]

Region 4: I/O ports at fc00 [size=16]

Region 5: Memory at 80000000 (32-bit, non-prefetchable) [size=1K]

Kernel driver in use: ata_piix

00:1f.3 SMBus: Intel Corporation 82801EB/ER (ICH5/ICH5R) SMBus Controller (rev 02)

Subsystem: ASUSTeK Computer Inc. P4P800 Mainboard

Control: I/O+ Mem- BusMaster- SpecCycle- MemWINV- VGASnoop- ParErr- Stepping- SERR- FastB2B- DisINTx-

Status: Cap- 66MHz- UDF- FastB2B+ ParErr- DEVSEL=medium >TAbort- <TAbort- <MAbort- >SERR- <PERR- INTx-

Interrupt: pin B routed to IRQ 5

Region 4: I/O ports at 0400 [size=32]

Kernel modules: i2c-i801

00:1f.5 Multimedia audio controller: Intel Corporation 82801EB/ER (ICH5/ICH5R) AC'97 Audio Controller (rev 02)

Subsystem: ASUSTeK Computer Inc. P4P800 Mainboard

Control: I/O+ Mem+ BusMaster+ SpecCycle- MemWINV- VGASnoop- ParErr- Stepping- SERR- FastB2B- DisINTx-

Status: Cap+ 66MHz- UDF- FastB2B+ ParErr- DEVSEL=medium >TAbort- <TAbort- <MAbort- >SERR- <PERR- INTx-

Latency: 0

Interrupt: pin B routed to IRQ 17

Region 0: I/O ports at e800 [size=256]

Region 1: I/O ports at ee80 [size=64]

Region 2: Memory at febff400 (32-bit, non-prefetchable) [size=512]

Region 3: Memory at febff000 (32-bit, non-prefetchable) [size=256]

Capabilities: [50] Power Management version 2

Flags: PMEClk- DSI- D1- D2- AuxCurrent=375mA PME(D0+,D1-,D2-,D3hot+,D3cold+)

Status: D0 NoSoftRst- PME-Enable- DSel=0 DScale=0 PME-

Kernel driver in use: Intel ICH

Kernel modules: snd-intel8x0

```
01:00.0 VGA compatible controller: nVidia Corporation NV25 [GeForce4 Ti
4200] (rev a3) (prog-if 00 [VGA controller])
    Subsystem: ASUSTeK Computer Inc. Device 804f
    Control: I/O+ Mem+ BusMaster+ SpecCycle- MemWINV- VGASnoop- ParErr-
Stepping- SERR- FastB2B- DisINTx-
    Status: Cap+ 66MHz+ UDF- FastB2B+ ParErr- DEVSEL=medium >TAbort-
<TAbort- <MAbort- >SERR- <PERR- INTx-
    Latency: 64 (1250ns min, 250ns max)
    Interrupt: pin A routed to IRQ 16
    Region 0: Memory at fd000000 (32-bit, non-prefetchable) [size=16M]
    Region 1: Memory at e8000000 (32-bit, prefetchable) [size=64M]
    Region 2: Memory at efe80000 (32-bit, prefetchable) [size=512K]
    Expansion ROM at fe9e0000 [disabled] [size=128K]
    Capabilities: [60] Power Management version 2
        Flags: PMEClk- DSI- D1- D2- AuxCurrent=0mA PME(D0-,D1-,D2-,D3hot-
,D3cold-)
        Status: D0 NoSoftRst- PME-Enable- DSel=0 DScale=0 PME-
    Capabilities: [44] AGP version 2.0
        Status: RQ=32 Iso- ArqSz=0 Cal=0 SBA+ ITACoh- GART64- HTrans- 64bit-
FW+ AGP3- Rate=x1,x2,x4
        Command: RQ=32 ArqSz=0 Cal=0 SBA+ AGP+ GART64- 64bit- FW+ Rate=x4
    Kernel driver in use: nouveau
    Kernel modules: nouveau, nvidiafb, rivafb

02:05.0 Ethernet controller: 3Com Corporation 3c940 10/100/1000Base-T
[Marvell] (rev 12)
    Subsystem: ASUSTeK Computer Inc. A7V600/P4P800/K8V motherboard
    Control: I/O+ Mem+ BusMaster+ SpecCycle- MemWINV+ VGASnoop- ParErr-
Stepping- SERR+ FastB2B- DisINTx-
    Status: Cap+ 66MHz+ UDF- FastB2B+ ParErr- DEVSEL=medium >TAbort-
<TAbort- <MAbort- >SERR- <PERR- INTx-
    Latency: 64 (5750ns min, 7750ns max), Cache Line Size: 16 bytes
    Interrupt: pin A routed to IRQ 22
    Region 0: Memory at feafc000 (32-bit, non-prefetchable) [size=16K]
    Region 1: I/O ports at d800 [size=256]
    Capabilities: [48] Power Management version 2
        Flags: PMEClk- DSI- D1+ D2+ AuxCurrent=0mA
PME(D0+,D1+,D2+,D3hot+,D3cold+)
        Status: D0 NoSoftRst- PME-Enable- DSel=0 DScale=1 PME-
    Capabilities: [50] Vital Product Data
        Product Name: 3Com Gigabit LOM (3C940)
        Read-only fields:
            [PN] Part number: 40-0779-000
            [EC] Engineering changes: Rev. 1.2
            [MN] Manufacture ID: 33 43 6f 6d
            [SN] Serial number: HFSR9B01E8
            [CP] Extended capability: 01 10 cc 03
            [RV] Reserved: checksum good, 41 byte(s) reserved
        Read/write fields:
            [MC] Unknown: 01 04 00 00 00 00 01 00
            [RW] Read-write area: 110 byte(s) free
```

End
Kernel driver in use: skge
Kernel modules: skge

Bus 005 Device 001: ID 1d6b:0001 Linux Foundation 1.1 root hub

Device Descriptor:

bLength	18
bDescriptorType	1
bcdUSB	1.10
bDeviceClass	9 Hub
bDeviceSubClass	0 Unused
bDeviceProtocol	0 Full speed (or root) hub
bMaxPacketSize0	64
idVendor	0x1d6b Linux Foundation
idProduct	0x0001 1.1 root hub
bcdDevice	2.06
iManufacturer	3 Linux 2.6.35-22-generic-pae uhci_hcd
iProduct	2 UHCI Host Controller
iSerial	1 0000:00:1d.3
bNumConfigurations	1

Configuration Descriptor:

bLength	9
bDescriptorType	2
wTotalLength	25
bNumInterfaces	1
bConfigurationValue	1
iConfiguration	0
bmAttributes	0xe0
Self Powered	
Remote Wakeup	
MaxPower	0mA

Interface Descriptor:

bLength	9
bDescriptorType	4
bInterfaceNumber	0
bAlternateSetting	0
bNumEndpoints	1
bInterfaceClass	9 Hub
bInterfaceSubClass	0 Unused
bInterfaceProtocol	0 Full speed (or root) hub
iInterface	0

Endpoint Descriptor:

bLength	7
bDescriptorType	5
bEndpointAddress	0x81 EP 1 IN
bmAttributes	3
Transfer Type	Interrupt
Synch Type	None
Usage Type	Data

```
wMaxPacketSize    0x0002    1x 2 bytes
bInterval          255
```

Hub Descriptor:

```
bLength            9
bDescriptorType     41
nNbrPorts           2
wHubCharacteristic 0x000a
  No power switching (usb 1.0)
  Per-port overcurrent protection
bPwrOn2PwrGood      1 * 2 milli seconds
bHubContrCurrent     0 milli Ampere
DeviceRemovable      0x00
PortPwrCtrlMask      0xff
```

Hub Port Status:

```
Port 1: 0000.0100 power
```

```
Port 2: 0000.0100 power
```

```
Device Status:      0x0003
```

```
Self Powered
```

```
Remote Wakeup Enabled
```

```
Bus 004 Device 001: ID 1d6b:0001 Linux Foundation 1.1 root hub
```

Device Descriptor:

```
bLength            18
bDescriptorType     1
bcdUSB              1.10
bDeviceClass         9 Hub
bDeviceSubClass       0 Unused
bDeviceProtocol       0 Full speed (or root) hub
bMaxPacketSize0       64
idVendor             0x1d6b Linux Foundation
idProduct            0x0001 1.1 root hub
bcdDevice            2.06
iManufacturer         3 Linux 2.6.35-22-generic-pae uhci_hcd
iProduct              2 UHCI Host Controller
iSerial               1 0000:00:1d.2
bNumConfigurations    1
```

Configuration Descriptor:

```
bLength            9
bDescriptorType     2
wTotalLength        25
bNumInterfaces       1
bConfigurationValue  1
iConfiguration       0
bmAttributes         0xe0
  Self Powered
  Remote Wakeup
```

```
MaxPower            0mA
```

Interface Descriptor:

```
bLength            9
bDescriptorType     4
bInterfaceNumber     0
```

```
bAlternateSetting      0
bNumEndpoints          1
bInterfaceClass         9 Hub
bInterfaceSubClass      0 Unused
bInterfaceProtocol      0 Full speed (or root) hub
iInterface              0
Endpoint Descriptor:
  bLength                7
  bDescriptorType        5
  bEndpointAddress       0x81 EP 1 IN
  bmAttributes           3
    Transfer Type        Interrupt
    Synch Type           None
    Usage Type           Data
  wMaxPacketSize         0x0002 1x 2 bytes
  bInterval              255
```

Hub Descriptor:

```
bLength                9
bDescriptorType        41
nNbrPorts              2
wHubCharacteristic 0x000a
  No power switching (usb 1.0)
  Per-port overcurrent protection
bPwrOn2PwrGood         1 * 2 milli seconds
bHubContrCurrent       0 milli Ampere
DeviceRemovable        0x00
PortPwrCtrlMask        0xff
```

Hub Port Status:

```
Port 1: 0000.0100 power
Port 2: 0000.0100 power
```

Device Status: 0x0003

```
Self Powered
Remote Wakeup Enabled
```

Bus 003 Device 001: ID 1d6b:0001 Linux Foundation 1.1 root hub

Device Descriptor:

```
bLength                18
bDescriptorType        1
bcdUSB                 1.10
bDeviceClass           9 Hub
bDeviceSubClass        0 Unused
bDeviceProtocol        0 Full speed (or root) hub
bMaxPacketSize0        64
idVendor               0x1d6b Linux Foundation
idProduct              0x0001 1.1 root hub
bcdDevice              2.06
iManufacturer          3 Linux 2.6.35-22-generic-pae uhci_hcd
iProduct               2 UHCI Host Controller
iSerial                1 0000:00:1d.1
bNumConfigurations     1
```


Configuration Descriptor:

bLength 9
bDescriptorType 2
wTotalLength 25
bNumInterfaces 1
bConfigurationValue 1
iConfiguration 0
bmAttributes 0xe0
Self Powered
Remote Wakeup

MaxPower 0mA

Interface Descriptor:

bLength 9
bDescriptorType 4
bInterfaceNumber 0
bAlternateSetting 0
bNumEndpoints 1
bInterfaceClass 9 Hub
bInterfaceSubClass 0 Unused
bInterfaceProtocol 0 Full speed (or root) hub
iInterface 0

Endpoint Descriptor:

bLength 7
bDescriptorType 5
bEndpointAddress 0x81 EP 1 IN
bmAttributes 3
Transfer Type Interrupt
Synch Type None
Usage Type Data
wMaxPacketSize 0x0002 1x 2 bytes
bInterval 255

Hub Descriptor:

bLength 9
bDescriptorType 41
nNbrPorts 2
wHubCharacteristic 0x000a
No power switching (usb 1.0)
Per-port overcurrent protection
bPwrOn2PwrGood 1 * 2 milli seconds
bHubContrCurrent 0 milli Ampere
DeviceRemovable 0x00
PortPwrCtrlMask 0xff

Hub Port Status:

Port 1: 0000.0100 power
Port 2: 0000.0100 power

Device Status: 0x0003

Self Powered
Remote Wakeup Enabled

Bus 002 Device 001: ID 1d6b:0001 Linux Foundation 1.1 root hub

Device Descriptor:

```
bLength          18
bDescriptorType   1
bcdUSB           1.10
bDeviceClass      9 Hub
bDeviceSubClass   0 Unused
bDeviceProtocol   0 Full speed (or root) hub
bMaxPacketSize0   64
idVendor          0x1d6b Linux Foundation
idProduct         0x0001 1.1 root hub
bcdDevice         2.06
iManufacturer     3 Linux 2.6.35-22-generic-pae uhci_hcd
iProduct          2 UHCI Host Controller
iSerial           1 0000:00:1d.0
bNumConfigurations 1
Configuration Descriptor:
  bLength          9
  bDescriptorType   2
  wTotalLength     25
  bNumInterfaces    1
  bConfigurationValue 1
  iConfiguration    0
  bmAttributes      0xe0
    Self Powered
    Remote Wakeup
  MaxPower         0mA
  Interface Descriptor:
    bLength          9
    bDescriptorType   4
    bInterfaceNumber  0
    bAlternateSetting 0
    bNumEndpoints     1
    bInterfaceClass   9 Hub
    bInterfaceSubClass 0 Unused
    bInterfaceProtocol 0 Full speed (or root) hub
    iInterface        0
    Endpoint Descriptor:
      bLength          7
      bDescriptorType   5
      bEndpointAddress 0x81 EP 1 IN
      bmAttributes      3
        Transfer Type    Interrupt
        Synch Type       None
        Usage Type       Data
      wMaxPacketSize    0x0002 1x 2 bytes
      bInterval         255
  Hub Descriptor:
    bLength          9
    bDescriptorType  41
    nNbrPorts        2
    wHubCharacteristic 0x000a
```

```
No power switching (usb 1.0)
Per-port overcurrent protection
bPwrOn2PwrGood      1 * 2 milli seconds
bHubContrCurrent     0 milli Ampere
DeviceRemovable      0x00
PortPwrCtrlMask      0xff
Hub Port Status:
  Port 1: 0000.0100 power
  Port 2: 0000.0100 power
Device Status:       0x0003
  Self Powered
  Remote Wakeup Enabled

Bus 001 Device 001: ID 1d6b:0002 Linux Foundation 2.0 root hub
Device Descriptor:
  bLength                18
  bDescriptorType         1
  bcdUSB                  2.00
  bDeviceClass             9 Hub
  bDeviceSubClass          0 Unused
  bDeviceProtocol          0 Full speed (or root) hub
  bMaxPacketSize0          64
  idVendor                 0x1d6b Linux Foundation
  idProduct                0x0002 2.0 root hub
  bcdDevice                2.06
  iManufacturer           3 Linux 2.6.35-22-generic-pae ehci_hcd
  iProduct                 2 EHCI Host Controller
  iSerial                  1 0000:00:1d.7
  bNumConfigurations       1
Configuration Descriptor:
  bLength                9
  bDescriptorType         2
  wTotalLength            25
  bNumInterfaces          1
  bConfigurationValue      1
  iConfiguration           0
  bmAttributes             0xe0
    Self Powered
    Remote Wakeup
  MaxPower                 0mA
Interface Descriptor:
  bLength                9
  bDescriptorType         4
  bInterfaceNumber        0
  bAlternateSetting        0
  bNumEndpoints            1
  bInterfaceClass          9 Hub
  bInterfaceSubClass        0 Unused
  bInterfaceProtocol        0 Full speed (or root) hub
  iInterface               0
Endpoint Descriptor:
```

```
bLength          7
bDescriptorType   5
bEndpointAddress 0x81 EP 1 IN
bmAttributes      3
  Transfer Type   Interrupt
  Synch Type      None
  Usage Type      Data
wMaxPacketSize    0x0004 1x 4 bytes
bInterval        12
```

Hub Descriptor:

```
bLength          11
bDescriptorType   41
nNbrPorts         8
wHubCharacteristic 0x000a
  No power switching (usb 1.0)
  Per-port overcurrent protection
bPwrOn2PwrGood    10 * 2 milli seconds
bHubContrCurrent   0 milli Ampere
DeviceRemovable    0x00 0x00
PortPwrCtrlMask    0xff 0xff
```

Hub Port Status:

```
Port 1: 0000.0100 power
Port 2: 0000.0100 power
Port 3: 0000.0100 power
Port 4: 0000.0100 power
Port 5: 0000.0100 power
Port 6: 0000.0100 power
Port 7: 0000.0100 power
Port 8: 0000.0100 power
```

Device Status: 0x0003

Self Powered

Remote Wakeup Enabled

blech

```
description: Desktop Computer
product: To Be Filled By O.E.M.
vendor: To Be Filled By O.E.M.
version: To Be Filled By O.E.M.
serial: To Be Filled By O.E.M.
width: 32 bits
capabilities: smbios-2.3 dmi-2.3 smp-1.1 smp
configuration: boot=normal chassis=desktop cpus=1
```

uuid=00020003-0004-0005-0006-000700080009

*-core

```
description: Motherboard
product: P4C800
vendor: ASUSTeK Computer Inc.
physical id: 0
version: Rev 1.xx
serial: MB-1234567890
```

*-firmware

```
description: BIOS
vendor: American Megatrends Inc.
physical id: 0
version: 1016.001 (02/23/2004)
size: 64KiB
capacity: 448KiB
capabilities: isa pci pnp apm upgrade shadowing escd cdboot
bootselect socketedrom edd int13floppy1200 int13floppy720 int13floppy2880
int5pintscreen int9keyboard int14serial int17printer int10video acpi usb
agp ls120boot zipboot biosbootspecification
*-cpu
description: CPU
product: Intel(R) Pentium(R) 4 CPU 2.80GHz
vendor: Intel Corp.
physical id: 4
bus info: cpu@0
version: 15.2.9
slot: CPU 1
size: 2800MHz
capacity: 3600MHz
width: 32 bits
clock: 200MHz
capabilities: boot fpu fpu_exception wp vme de pse tsc msr pae mce
cx8 apic mtrr pge mca cmov pat pse36 clflush dts acpi mmx fxsr sse sse2 ss
ht tm pbe pebs bts cid xtrp
configuration: id=0
*-cache:0
description: L1 cache
physical id: 5
slot: L1-Cache
size: 8KiB
capacity: 8KiB
capabilities: pipeline-burst internal varies data
*-cache:1
description: L2 cache
physical id: 6
slot: L2-Cache
size: 512KiB
capacity: 512KiB
capabilities: pipeline-burst internal varies unified
*-logicalcpu:0
description: Logical CPU
physical id: 0.1
width: 32 bits
capabilities: logical
*-logicalcpu:1
description: Logical CPU
physical id: 0.2
width: 32 bits
capabilities: logical
*-memory
```

```
description: System Memory
physical id: 38
slot: System board or motherboard
size: 2GiB
*-bank:0
  description: DIMM DDR Synchronous
  product: PartNum0
  vendor: Manufacturer0
  physical id: 0
  serial: SerNum0
  slot: DIMM0
  size: 512MiB
  width: 64 bits
*-bank:1
  description: DIMM DDR Synchronous
  product: PartNum1
  vendor: Manufacturer1
  physical id: 1
  serial: SerNum1
  slot: DIMM1
  size: 512MiB
  width: 64 bits
*-bank:2
  description: DIMM DDR Synchronous
  product: PartNum2
  vendor: Manufacturer2
  physical id: 2
  serial: SerNum2
  slot: DIMM2
  size: 512MiB
  width: 64 bits
*-bank:3
  description: DIMM DDR Synchronous
  product: PartNum3
  vendor: Manufacturer3
  physical id: 3
  serial: SerNum3
  slot: DIMM3
  size: 512MiB
  width: 64 bits
*-pci
  description: Host bridge
  product: 82875P/E7210 Memory Controller Hub
  vendor: Intel Corporation
  physical id: 100
  bus info: pci@0000:00:00.0
  version: 02
  width: 32 bits
  clock: 33MHz
  configuration: driver=agpgart-intel
```

```
resources: irq:0 memory:f4000000-f7ffffff
*-pci:0
    description: PCI bridge
    product: 82875P Processor to AGP Controller
    vendor: Intel Corporation
    physical id: 1
    bus info: pci@0000:00:01.0
    version: 02
    width: 32 bits
    clock: 66MHz
    capabilities: pci normal_decode bus_master
    resources: memory:fc900000-fe9fffff memory:e7e00000-efefffff
*-display
    description: VGA compatible controller
    product: NV25 [GeForce4 Ti 4200]
    vendor: nVidia Corporation
    physical id: 0
    bus info: pci@0000:01:00.0
    version: a3
    width: 32 bits
    clock: 66MHz
    capabilities: pm agp agp-2.0 vga_controller bus_master
cap_list rom
configuration: driver=nouveau latency=64 maxlatency=1
mingnt=5
resources: irq:16 memory:fd000000-fdffffff memory:e8000000-ebffffff
memory:efe80000-efefffff memory:fe9e0000-fe9fffff
*-generic UNCLAIMED
    description: System peripheral
    product: 82875P/E7210 Processor to I/O Memory Interface
    vendor: Intel Corporation
    physical id: 6
    bus info: pci@0000:00:06.0
    version: 02
    width: 32 bits
    clock: 33MHz
    configuration: latency=0
    resources: memory:fecf0000-fecf0fff
*-usb:0
    description: USB Controller
    product: 82801EB/ER (ICH5/ICH5R) USB UHCI Controller #1
    vendor: Intel Corporation
    physical id: 1d
    bus info: pci@0000:00:1d.0
    version: 02
    width: 32 bits
    clock: 33MHz
    capabilities: uhci bus_master
    configuration: driver=uhci_hcd latency=0
    resources: irq:16 ioport:eec0(size=32)
*-usb:1
```

```
description: USB Controller
product: 82801EB/ER (ICH5/ICH5R) USB UHCI Controller #2
vendor: Intel Corporation
physical id: 1d.1
bus info: pci@0000:00:1d.1
version: 02
width: 32 bits
clock: 33MHz
capabilities: uhci bus_master
configuration: driver=uhci_hcd latency=0
resources: irq:19 ioport:ef00(size=32)
*-usb:2
description: USB Controller
product: 82801EB/ER (ICH5/ICH5R) USB UHCI Controller #3
vendor: Intel Corporation
physical id: 1d.2
bus info: pci@0000:00:1d.2
version: 02
width: 32 bits
clock: 33MHz
capabilities: uhci bus_master
configuration: driver=uhci_hcd latency=0
resources: irq:18 ioport:ef20(size=32)
*-usb:3
description: USB Controller
product: 82801EB/ER (ICH5/ICH5R) USB UHCI Controller #4
vendor: Intel Corporation
physical id: 1d.3
bus info: pci@0000:00:1d.3
version: 02
width: 32 bits
clock: 33MHz
capabilities: uhci bus_master
configuration: driver=uhci_hcd latency=0
resources: irq:16 ioport:ef40(size=32)
*-usb:4
description: USB Controller
product: 82801EB/ER (ICH5/ICH5R) USB2 EHCI Controller
vendor: Intel Corporation
physical id: 1d.7
bus info: pci@0000:00:1d.7
version: 02
width: 32 bits
clock: 33MHz
capabilities: pm debug ehci bus_master cap_list
configuration: driver=ehci_hcd latency=0
resources: irq:23 memory:febff800-febffbff
*-pci:1
description: PCI bridge
product: 82801 PCI Bridge
```



```
vendor: Intel Corporation
physical id: 1e
bus info: pci@0000:00:1e.0
version: c2
width: 32 bits
clock: 33MHz
capabilities: pci normal_decode bus_master
resources: ioport:d000(size=4096) memory:fea00000-feafffff
*-network
    description: Ethernet interface
    product: 3c940 10/100/1000Base-T [Marvell]
    vendor: 3Com Corporation
    physical id: 5
    bus info: pci@0000:02:05.0
    logical name: eth0
    version: 12
    serial: 00:0c:6e:52:fe:38
    size: 1GB/s
    capacity: 1GB/s
    width: 32 bits
    clock: 66MHz
    capabilities: pm vpd bus_master cap_list ethernet physical
tp 10bt 10bt-fd 100bt 100bt-fd 1000bt-fd autonegotiation
    configuration: autonegotiation=on broadcast=yes driver=skge
driver version=1.13 duplex=full firmware=N/A ip=192.168.0.135 latency=64
link=yes maxlatency=31 mingnt=23 multicast=yes port=twisted pair speed=1GB/s
    resources: irq:22 memory:feafc000-feafffff
ioport:d800(size=256)
*-isa
    description: ISA bridge
    product: 82801EB/ER (ICH5/ICH5R) LPC Interface Bridge
    vendor: Intel Corporation
    physical id: 1f
    bus info: pci@0000:00:1f.0
    version: 02
    width: 32 bits
    clock: 33MHz
    capabilities: isa bus_master
    configuration: latency=0
*-ide
    description: IDE interface
    product: 82801EB/ER (ICH5/ICH5R) IDE Controller
    vendor: Intel Corporation
    physical id: 1f.1
    bus info: pci@0000:00:1f.1
    logical name: scsi0
    logical name: scsi1
    version: 02
    width: 32 bits
    clock: 33MHz
    capabilities: ide bus_master emulated
```

```
configuration: driver=ata_piix latency=0
resources: irq:18 ioport:1f0(size=8) ioport:3f6
ioport:170(size=8) ioport:376 ioport:fc00(size=16) memory:80000000-800003ff
*-disk
    description: ATA Disk
    product: WDC WD400JB-00EN
    vendor: Western Digital
    physical id: 0
    bus info: scsi@0:0.0.0
    logical name: /dev/sda
    version: 05.0
    serial: WD-WCAD1A252039
    size: 37GiB (40GB)
    capabilities: partitioned partitioned:dos
    configuration: ansiversion=5 signature=000af1c5
*-volume:0
    description: EXT4 volume
    vendor: Linux
    physical id: 1
    bus info: scsi@0:0.0.0,1
    logical name: /dev/sda1
    logical name: /
    version: 1.0
    serial: 05243e2d-a300-406f-a62d-91e864028794
    size: 35GiB
    capacity: 35GiB
    capabilities: primary bootable journaled
extended_attributes large_files huge_files dir_nlink recover extents ext4
ext2 initialized
    configuration: created=2011-03-18 16:19:08
filesystem=ext4 lastmountpoint=/00;0000,00w0000000"000,0000H080H080;00
040000"0 modified=2011-03-18 16:45:24 mount.fstype=ext4
mount.options=rw,relatime,errors=remount-ro,barrier=1,data=ordered
mounted=2011-03-18 16:47:47 state=mounted
*-volume:1
    description: Extended partition
    physical id: 2
    bus info: scsi@0:0.0.0,2
    logical name: /dev/sda2
    size: 1610MiB
    capacity: 1610MiB
    capabilities: primary extended partitioned
partitioned:extended
*-logicalvolume
    description: Linux swap / Solaris partition
    physical id: 5
    logical name: /dev/sda5
    capacity: 1610MiB
    capabilities: nofs
*-cdrom
```

```
description: SCSI CD-ROM
physical id: 1
bus info: scsi@1:0.0.0
logical name: /dev/cdrom
logical name: /dev/scd0
logical name: /dev/sr0
capabilities: audio
configuration: status=nodisc
*-serial UNCLAIMED
description: SMBus
product: 82801EB/ER (ICH5/ICH5R) SMBus Controller
vendor: Intel Corporation
physical id: 1f.3
bus info: pci@0000:00:1f.3
version: 02
width: 32 bits
clock: 33MHz
configuration: latency=0
resources: ioport:400(size=32)
*-multimedia
description: Multimedia audio controller
product: 82801EB/ER (ICH5/ICH5R) AC'97 Audio Controller
vendor: Intel Corporation
physical id: 1f.5
bus info: pci@0000:00:1f.5
version: 02
width: 32 bits
clock: 33MHz
capabilities: pm bus_master cap_list
configuration: driver=Intel ICH latency=0
resources: irq:17 ioport:e800(size=256) ioport:ee80(size=64)
memory:febff400-febff5ff memory:febff000-febff0ff
```

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