

# only first PCMCIA card works

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Dear list

Running FreeBSD-6.1 RELEASE on Thinkpad 380XD, I have been using this notebook for many years (and used FreeBSD from 4.7 to 6.1). An ethernet card is plugged on the first PCMCIA slot and I inserted my FC card reader (PCMCIA card produced by Hitachi) and noticed it's not detected (no message about it in dmesg)

Later I discovered any card in the first PCMCIA slot works, any card in second slot, be it ethernet card or FC card adapter, doesn't work.

I have pccard\_enable="YES" in my rc.conf. dmesg told me this:

```
# dmesg | grep pccard
pccard0: <16-bit PCCard bus> on cbb0
pccard1: <16-bit PCCard bus> on cbb1
ep0: <3Com Corporation 3C589D> at port 0x100-0x10f irq 11 function 0 config 1 on pccard0
```

Actually I am not sure what to do next. I checked dmesg and found irq 11 is used by uchi0, as well as ep0, surprisingly both works, maybe my knowledge of IRQ is outdated. I also checked that my IRQ 3, 4 and 10 are not used (3 & 4 are free because my sio hardware is broken so I disabled it in /boot/devices.hint), so I write /etc/pccard.conf which says:

```
irq 3 4 10
```

But after reboot the ep0 device still get 10 (I suspect it can get 3?)  
Then I go to added this to /boot/devices:

```
hint.uhci.0.at="pci"
hint.uhci.0.irq="3"
```

After reboot uchi0 is still at irq 11. Strange.

I attached both of my dmesg and kernel config file.

Thanks for suggestions and hints on hardware knowledge to me!

```
#
# GENERIC --- Generic kernel configuration file for FreeBSD/i386
```

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```
#
# For more information on this file, please read the handbook section on
# Kernel Configuration Files:
#
# http://www.FreeBSD.org/doc/en\_US.ISO8859-1/books/handbook/kernelconfig-config.html
#
# The handbook is also available locally in /usr/share/doc/handbook
# if you've installed the doc distribution, otherwise always see the
# FreeBSD World Wide Web server (http://www.FreeBSD.org/) for the
# latest information.
#
# An exhaustive list of options and more detailed explanations of the
# device lines is also present in the ../../conf/NOTES and NOTES files.
# If you are in doubt as to the purpose or necessity of a line, check first
# in NOTES.
#
# $FreeBSD: src/sys/i386/conf/GENERIC,v 1.429.2.7.2.2 2006/05/01 00:15:12 scottl Exp $
```

```
machine i386
cpu I586_CPU
ident QUASIMODO
```

```
# To statically compile in device wiring instead of /boot/device.hints
#hints "GENERIC.hints" # Default places to look for devices.
```

```
makeoptions DEBUG=-g # Build kernel with gdb(1) debug symbols
```

```
options VESA
options VGA_WIDTH90
options SC_PIXEL_MODE
#options SCHED_ULE # ULE scheduler
options SCHED_4BSD # 4BSD scheduler
options PREEMPTION # Enable kernel thread preemption
options INET # InterNETworking
options INET6 # IPv6 communications protocols
options FFS # Berkeley Fast Filesystem
options SOFTUPDATES # Enable FFS soft updates support
options UFS_ACL # Support for access control lists
options UFS_DIRHASH # Improve performance on big directories
options MD_ROOT # MD is a potential root device
options NFSCLIENT # Network Filesystem Client
options NFSSERVER # Network Filesystem Server
options NFS_ROOT # NFS usable as /, requires NFSCLIENT
options MSDOSFS # MSDOS Filesystem
options CD9660 # ISO 9660 Filesystem
options PROCFS # Process filesystem (requires PSEUDofs)
options PSEUDofs # Pseudo-filesystem framework
options GEOM_GPT # GUID Partition Tables.
options COMPAT_43 # Compatible with BSD 4.3 [KEEP THIS!]
options COMPAT_FREEBSD4 # Compatible with FreeBSD4
```

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```
options COMPAT_FREEBSD5 # Compatible with FreeBSD5
options SCSI_DELAY=5000 # Delay (in ms) before probing SCSI
options KTRACE # ktrace(1) support
options SYSVSHM # SYSV-style shared memory
options SYSVMSG # SYSV-style message queues
options SYSVSEM # SYSV-style semaphores
options _KPOSIX_PRIORITY_SCHEDULING # POSIX P1003_1B real-time extensions
options KBD_INSTALL_CDEV # install a CDEV entry in /dev
options AHC_REG_PRETTY_PRINT # Print register bitfields in debug
# output. Adds ~128k to driver.
options AHD_REG_PRETTY_PRINT # Print register bitfields in debug
# output. Adds ~215k to driver.
options ADAPTIVE_GIANT # Giant mutex is adaptive.
```

```
device apic # I/O APIC
```

```
# Bus support.
```

```
device eisa
```

```
device pci
```

```
# Floppy drives
```

```
device fdc
```

```
# ATA and ATAPI devices
```

```
device ata
```

```
device atadisk # ATA disk drives
```

```
device ataraid # ATA RAID drives
```

```
device atapicd # ATAPI CDROM drives
```

```
device atapifd # ATAPI floppy drives
```

```
device atapist # ATAPI tape drives
```

```
options ATA_STATIC_ID # Static device numbering
```

```
# SCSI Controllers
```

```
device ahb # EISA AHA1742 family
```

```
device ahc # AHA2940 and onboard AIC7xxx devices
```

```
device ahd # AHA39320/29320 and onboard AIC79xx devices
```

```
device amd # AMD 53C974 (Tekram DC-390(T))
```

```
device isp # Qlogic family
```

```
#device ispfw # Firmware for QLogic HBAs- normally a module
```

```
device mpt # LSI-Logic MPT-Fusion
```

```
#device ncr # NCR/Symbios Logic
```

```
device sym # NCR/Symbios Logic (newer chipsets + those of `ncr')
```

```
device trm # Tekram DC395U/UW/F DC315U adapters
```

```
device adv # Advansys SCSI adapters
```

```
device adw # Advansys wide SCSI adapters
```

```
device aha # Adaptec 154x SCSI adapters
```

```
device aic # Adaptec 15[012]x SCSI adapters, AIC-6[23]60.
```

```
device bt # Buslogic/Mylex MultiMaster SCSI adapters
```

```
device ncv # NCR 53C500
```

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```
device nsp # Workbit Ninja SCSI-3
device stg # TMC 18C30/18C50
```

```
# SCSI peripherals
```

```
device scbus # SCSI bus (required for SCSI)
device ch # SCSI media changers
device da # Direct Access (disks)
device sa # Sequential Access (tape etc)
device cd # CD
device pass # Passthrough device (direct SCSI access)
device ses # SCSI Environmental Services (and SAF-TE)
```

```
# RAID controllers interfaced to the SCSI subsystem
```

```
device amr # AMI MegaRAID
device arcmsr # Areca SATA II RAID
device asr # DPT SmartRAID V, VI and Adaptec SCSI RAID
device ciss # Compaq Smart RAID 5*
device dpt # DPT Smartcache III, IV - See NOTES for options
device hptmv # Highpoint RocketRAID 182x
device rr232x # Highpoint RocketRAID 232x
device iir # Intel Integrated RAID
device ips # IBM (Adaptec) ServeRAID
device mly # Mylex AcceleRAID/eXtremeRAID
device twa # 3ware 9000 series PATA/SATA RAID
```

```
# RAID controllers
```

```
device aac # Adaptec FSA RAID
device aacp # SCSI passthrough for aac (requires CAM)
device ida # Compaq Smart RAID
device mfi # LSI MegaRAID SAS
device mlx # Mylex DAC960 family
device pst # Promise Supertrak SX6000
device twe # 3ware ATA RAID
```

```
# atkbd0 controls both the keyboard and the PS/2 mouse
```

```
device atkbd # AT keyboard controller
device atkbd # AT keyboard
device psm # PS/2 mouse
```

```
device kbdmux # keyboard multiplexer
```

```
device vga # VGA video card driver
```

```
device splash # Splash screen and screen saver support
```

```
# syscons is the default console driver, resembling an SCO console
device sc
```

```
# Enable this for the pcvt (VT220 compatible) console driver
#device vt
#options XSERVER # support for X server on a vt console
```

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```
#options FAT_CURSOR # start with block cursor

device agp # support several AGP chipsets

# Power management support (see NOTES for more options)
device apm
# Add suspend/resume support for the i8254.
device pmtimer

# PCCARD (PCMCIA) support
# PCMCIA and cardbus bridge support
device cbb # cardbus (yenta) bridge
device pccard # PC Card (16-bit) bus

# Serial (COM) ports
device sio # 8250, 16[45]50 based serial ports

# Parallel port
device ppc
device ppbus # Parallel port bus (required)
device lpt # Printer
device plip # TCP/IP over parallel
device ppi # Parallel port interface device
#device vpo # Requires scbus and da

# If you've got a "dumb" serial or parallel PCI card that is
# supported by the puc(4) glue driver, uncomment the following
# line to enable it (connects to the sio and/or ppc drivers):
#device puc

# PCI Ethernet NICs.
device de # DEC/Intel DC21x4x (`Tulip")
device em # Intel PRO/1000 adapter Gigabit Ethernet Card
device ixgb # Intel PRO/10GbE Ethernet Card
device txp # 3Com 3cR990 (`Typhoon")
device vx # 3Com 3c590, 3c595 (`Vortex")

# PCI Ethernet NICs that use the common MII bus controller code.
# NOTE: Be sure to keep the 'device miibus' line in order to use these NICs!
device miibus # MII bus support
device bce # Broadcom BCM5706/BCM5708 Gigabit Ethernet
device bfe # Broadcom BCM440x 10/100 Ethernet
device bge # Broadcom BCM570xx Gigabit Ethernet
device dc # DEC/Intel 21143 and various workalikes
device fxp # Intel EtherExpress PRO/100B (82557, 82558)
device lge # Level 1 LXT1001 gigabit Ethernet
device nge # NatSemi DP83820 gigabit Ethernet
device nve # nVidia nForce MCP on-board Ethernet Networking
device pcn # AMD Am79C97x PCI 10/100(precedence over 'Inc')
device re # RealTek 8139C+/8169/8169S/8110S
device rl # RealTek 8129/8139
```

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```
device sf # Adaptec AIC-6915 (`Starfire")
device sis # Silicon Integrated Systems SiS 900/SiS 7016
device sk # SysKonnect SK-984x & SK-982x gigabit Ethernet
device ste # Sundance ST201 (D-Link DFE-550TX)
device ti # Alteon Networks Tigon I/II gigabit Ethernet
device tl # Texas Instruments ThunderLAN
device tx # SMC EtherPower II (83c170 ``EPIC")
device vge # VIA VT612x gigabit Ethernet
device vr # VIA Rhine, Rhine II
device wb # Winbond W89C840F
device xl # 3Com 3c90x (`Boomerang", ``Cyclone")
```

# ISA Ethernet NICs. pccard NICs included.

```
device cs # Crystal Semiconductor CS89x0 NIC
# 'device ed' requires 'device miibus'
device ed # NE[12]000, SMC Ultra, 3c503, DS8390 cards
device ex # Intel EtherExpress Pro/10 and Pro/10+
device ep # Etherlink III based cards
device fe # Fujitsu MB8696x based cards
device ie # EtherExpress 8/16, 3C507, StarLAN 10 etc.
device lnc # NE2100, NE32-VL Lance Ethernet cards
device sn # SMC's 9000 series of Ethernet chips
device xe # Xircom pccard Ethernet
```

# Wireless NIC cards

```
device wlan # 802.11 support
device an # Aironet 4500/4800 802.11 wireless NICs.
device awi # BayStack 660 and others
device ral # Ralink Technology RT2500 wireless NICs.
device wi # WaveLAN/Intersil/Symbol 802.11 wireless NICs.
#device wl # Older non 802.11 Wavelan wireless NIC.
```

# Pseudo devices.

```
device loop # Network loopback
device random # Entropy device
device ether # Ethernet support
device sl # Kernel SLIP
device ppp # Kernel PPP
device tun # Packet tunnel.
device pty # Pseudo-ttys (telnet etc)
device md # Memory "disks"
device gif # IPv6 and IPv4 tunneling
device faith # IPv6-to-IPv4 relaying (translation)
```

```
# The `bpf' device enables the Berkeley Packet Filter.
# Be aware of the administrative consequences of enabling this!
# Note that 'bpf' is required for DHCP.
device bpf # Berkeley packet filter
```

# USB support

```
device uhci # UHCI PCI->USB interface
```

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```
# I don't have below equipments
##device ohci # OHCI PCI->USB interface
##device ehci # EHCI PCI->USB interface (USB 2.0)
device usb # USB Bus (required)
#device udbp # USB Double Bulk Pipe devices
device ugen # Generic
device uhid # "Human Interface Devices"
device ukbd # Keyboard
device ulpt # Printer
device umass # Disks/Mass storage - Requires scbus and da
device ums # Mouse
device ural # Ralink Technology RT2500USB wireless NICs
device urio # Diamond Rio 500 MP3 player
device uscanner # Scanners
# USB Ethernet, requires miibus
device aue # ADMtek USB Ethernet
device axe # ASIX Electronics USB Ethernet
device cdce # Generic USB over Ethernet
device cue # CATC USB Ethernet
device kue # Kawasaki LSI USB Ethernet
device rue # RealTek RTL8150 USB Ethernet
# USB to serial converter
device uplcom
device ucom

# FireWire support
device firewire # FireWire bus code
device sbp # SCSI over FireWire (Requires scbus and da)
device fwe # Ethernet over FireWire (non-standard!)
device sound
device snd_csa # to drive CS423x sound card
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The Regents of the University of California. All rights reserved.
FreeBSD 6.1-RELEASE #2: Mon Jan 22 23:37:50 CST 2007
root@xxxxxxxxxxxxxxxxxxxxxx:/usr/obj/usr/src/sys/QUASIMODO
Timecounter "i8254" frequency 1193182 Hz quality 0
CPU: Pentium/P55C (quarter-micron) (232.11-MHz 586-class CPU)
Origin = "GenuineIntel" Id = 0x581 Stepping = 1
Features=0x8001bf<FPU,VME,DE,PSE,TSC,MSR,MCE,CX8,MMX>
real memory = 33357824 (31 MB)
avail memory = 23166976 (22 MB)
Intel Pentium detected, installing workaround for F00F bug
kbd1 at kbdmux0
cpu0 on motherboard
pcib0: <Host to PCI bridge> pcibus 0 on motherboard
pir0: <PCI Interrupt Routing Table: 4 Entries> on motherboard
pci0: <PCI bus> on pcib0
cbb0: <TI1250 PCI-CardBus Bridge> mem 0x20822000-0x20822fff at device 2.0 on pci0
cardbus0: <CardBus bus> on cbb0
pccard0: <16-bit PCCard bus> on cbb0
```

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cbb1: <TI1250 PCI-CardBus Bridge> mem 0x20821000-0x20821fff at device 2.1 on pci0  
cardbus1: <CardBus bus> on cbb1  
pccard1: <16-bit PCCard bus> on cbb1  
\$PIR: ROUTE\_INTERRUPT failed.  
cbb: Unable to map IRQ...  
device\_attach: cbb1 attach returned 12  
pci0: <display, VGA> at device 3.0 (no driver attached)  
isab0: <PCI-ISA bridge> at device 6.0 on pci0  
isa0: <ISA bus> on isab0  
atapci0: <Intel PIIX4 UDMA33 controller> port 0x1f0-0x1f7,0x3f6,0x170-0x177,0x376,0xfc0-0xfcff at device 6.1 on pci0  
ata0: <ATA channel 0> on atapci0  
ata1: <ATA channel 1> on atapci0  
uhci0: <Intel 82371AB/EB (PIIX4) USB controller> port 0x9000-0x901f irq 11 at device 6.2 on pci0  
uhci0: [GIANT-LOCKED]  
usb0: <Intel 82371AB/EB (PIIX4) USB controller> on uhci0  
usb0: USB revision 1.0  
uhub0: Intel UHCI root hub, class 9/0, rev 1.00/1.00, addr 1  
uhub0: 2 ports with 2 removable, self powered  
pci0: <bridge> at device 6.3 (no driver attached)  
pmtimer0 on isa0  
orm0: <ISA Option ROM> at iomem 0xc0000-0xc9fff on isa0  
atkbdc0: <Keyboard controller (i8042)> at port 0x60,0x64 on isa0  
atkbd0: <AT Keyboard> irq 1 on atkbdc0  
kbd0 at atkbd0  
atkbd0: [GIANT-LOCKED]  
psm0: <PS/2 Mouse> irq 12 on atkbdc0  
psm0: [GIANT-LOCKED]  
psm0: model Generic PS/2 mouse, device ID 0  
fdc0: <Enhanced floppy controller> at port 0x3f0-0x3f5,0x3f7 irq 6 drq 2 on isa0  
fdc0: [FAST]  
fd0: <1440-KB 3.5" drive> on fdc0 drive 0  
ppc0: <Parallel port> at port 0x3bc-0x3c3 irq 7 on isa0  
ppc0: Generic chipset (NIBBLE-only) in COMPATIBLE mode  
ppbus0: <Parallel port bus> on ppc0  
plip0: <PLIP network interface> on ppbus0  
lpt0: <Printer> on ppbus0  
lpt0: Interrupt-driven port  
ppi0: <Parallel I/O> on ppbus0  
sc0: <System console> at flags 0x100 on isa0  
sc0: VGA <16 virtual consoles, flags=0x300>  
vga0: <Generic ISA VGA> at port 0x3c0-0x3df iomem 0xa0000-0xbffff on isa0  
unknown: <PNP0303> can't assign resources (port)  
unknown: <PNP0f13> can't assign resources (irq)  
unknown: <PNP0700> can't assign resources (port)  
unknown: <PNP0c02> can't assign resources (memory)  
unknown: <PNP0400> can't assign resources (port)  
pcm0: <CS423x> at port 0x530-0x537,0x388-0x38b,0x220-0x233 irq 5 drq 1,0 on isa0  
pcm0: [GIANT-LOCKED]  
unknown: <PNP0e03> can't assign resources (port)  
Timecounter "TSC" frequency 232106203 Hz quality 800

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Timecounters tick every 1.000 msec

ep0: <3Com Corporation 3C589D> at port 0x100-0x10f irq 11 function 0 config 1 on pccard0

ep0: Ethernet address: 00:60:97:92:c0:27

ad0: 3102MB <IBM DTCA-23240 TC5OAB1A> at ata0-master UDMA33

acd0: CDROM <SANYO CRD-S372B/1.24F> at ata0-slave PIO3

Trying to mount root from ufs:/dev/ad0s1a

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