

# Synaptic tochpad recognize

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*Source:* <http://unix.derkeiler.com/Mailing-Lists/FreeBSD/current/2007-05/msg01264.html>

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- *From:* Vladimir Popov <[vop@xxxxxx](mailto:vop@xxxxxx)>
  - *Date:* Thu, 31 May 2007 23:36:06 +0400
- 

Hi,

I have a problem with the synaptic tochpad at the Gatewat M680 laptop. PSM driver recognizes tochpad as IntelliMouse device.

hw.psm.synaptics\_support=1 present in /boot/loader.conf

dmesg output:

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FreeBSD 7.0-CURRENT #9: Thu May 31 23:02:44 MSD 2007

vladimir@xxxxxxxxxx:/usr/obj/usr/src/sys/KERNEL

Timecounter "i8254" frequency 1193182 Hz quality 0

CPU: Intel(R) Pentium(R) M processor 1.60GHz (1615.16-MHz 686-class CPU)

Origin = "GenuineIntel" Id = 0x6d8 Stepping = 8

Features=0xafe9fbff<FPU,VME,DE,PSE,TSC,MSR,PAE,MCE,CX8,APIC,SEP,MTRR,PGE,MCA,CMOV,PAT,CLFLUSH>

Features2=0x180<EST,TM2>

AMD Features=0x100000<NX>

real memory = 2146369536 (2046 MB)

avail memory = 2095255552 (1998 MB)

ACPI APIC Table: <GATEWA M680 >

ioapic0: Changing APIC ID to 1

ioapic0 <Version 2.0> irqs 0-23 on motherboard

kbd1 at kbdmux0

acpi0: <GATEWA M680> on motherboard

acpi0: [ITHREAD]

acpi0: Power Button (fixed)

Timecounter "ACPI-safe" frequency 3579545 Hz quality 1000

acpi\_timer0: <24-bit timer at 3.579545MHz> port 0x1008-0x100b on acpi0

acpi\_ec0: <Embedded Controller: GPE 0x1c> port 0x62,0x66 on acpi0

cpu0: <ACPI CPU> on acpi0

acpi\_perf0: <ACPI CPU Frequency Control> on cpu0

acpi\_perf0: failed in PERF\_STATUS attach

device\_attach: acpi\_perf0 attach returned 6

acpi\_perf0: <ACPI CPU Frequency Control> on cpu0

acpi\_perf0: failed in PERF\_STATUS attach

device\_attach: acpi\_perf0 attach returned 6

acpi\_button0: <Sleep Button> on acpi0

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acpi\_acad0: <AC Adapter> on acpi0  
battery0: <ACPI Control Method Battery> on acpi0  
acpi\_lid0: <Control Method Lid Switch> on acpi0  
pcib0: <ACPI Host-PCI bridge> port 0xcf8-0xcff on acpi0  
pci0: <ACPI PCI bus> on pcib0  
pcib1: <ACPI PCI-PCI bridge> irq 16 at device 1.0 on pci0  
pci1: <ACPI PCI bus> on pcib1  
vgapci0: <VGA-compatible display> port 0x3000-0x30ff mem  
0xd0000000-0xd7ffff,0xc8100000-0xc810ffff irq 16 at device 0.0 on pci1  
uhci0: <Intel 82801FB/FR/FW/FRW (ICH6) USB controller USB-A> port 0x1800-0x181f irq 23 at device  
29.0 on pci0  
uhci0: [GIANT-LOCKED]  
uhci0: [ITHREAD]  
usb0: <Intel 82801FB/FR/FW/FRW (ICH6) USB controller USB-A> on uhci0  
usb0: USB revision 1.0  
uhub0: <Intel UHCI root hub, class 9/0, rev 1.00/1.00, addr 1> on usb0  
uhub0: 2 ports with 2 removable, self powered  
uhci1: <Intel 82801FB/FR/FW/FRW (ICH6) USB controller USB-B> port 0x1820-0x183f irq 23 at device  
29.1 on pci0  
uhci1: [GIANT-LOCKED]  
uhci1: [ITHREAD]  
usb1: <Intel 82801FB/FR/FW/FRW (ICH6) USB controller USB-B> on uhci1  
usb1: USB revision 1.0  
uhub1: <Intel UHCI root hub, class 9/0, rev 1.00/1.00, addr 1> on usb1  
uhub1: 2 ports with 2 removable, self powered  
uhci2: <Intel 82801FB/FR/FW/FRW (ICH6) USB controller USB-C> port 0x1840-0x185f irq 22 at device  
29.2 on pci0  
uhci2: [GIANT-LOCKED]  
uhci2: [ITHREAD]  
usb2: <Intel 82801FB/FR/FW/FRW (ICH6) USB controller USB-C> on uhci2  
usb2: USB revision 1.0  
uhub2: <Intel UHCI root hub, class 9/0, rev 1.00/1.00, addr 1> on usb2  
uhub2: 2 ports with 2 removable, self powered  
uhci3: <Intel 82801FB/FR/FW/FRW (ICH6) USB controller USB-D> port 0x1860-0x187f irq 22 at device  
29.3 on pci0  
uhci3: [GIANT-LOCKED]  
uhci3: [ITHREAD]  
usb3: <Intel 82801FB/FR/FW/FRW (ICH6) USB controller USB-D> on uhci3  
usb3: USB revision 1.0  
uhub3: <Intel UHCI root hub, class 9/0, rev 1.00/1.00, addr 1> on usb3  
uhub3: 2 ports with 2 removable, self powered  
ehci0: <Intel 82801FB (ICH6) USB 2.0 controller> mem 0xc8000000-0xc80003ff irq 23 at device 29.7 on  
pci0  
ehci0: [GIANT-LOCKED]  
ehci0: [ITHREAD]  
usb4: EHCI version 1.0  
usb4: companion controllers, 2 ports each: usb0 usb1 usb2 usb3  
usb4: <Intel 82801FB (ICH6) USB 2.0 controller> on ehci0  
usb4: USB revision 2.0  
uhub4: <Intel EHCI root hub, class 9/0, rev 2.00/1.00, addr 1> on usb4  
uhub4: 8 ports with 8 removable, self powered

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pcib2: <ACPI PCI-PCI bridge> at device 30.0 on pci0  
pci6: <ACPI PCI bus> on pcib2  
pci6:0:0: bad VPD cksum, remain 14  
bge0: <Broadcom NetXtreme Gigabit Ethernet Controller, ASIC rev. 0x3003> mem 0xc8200000-0xc820ffff  
irq 19 at device 0.0 on pci6  
miibus0: <MII bus> on bge0  
brgphy0: <BCM5705 10/100/1000baseTX PHY> PHY 1 on miibus0  
brgphy0: 10baseT, 10baseT-FDX, 100baseTX, 100baseTX-FDX, 1000baseT, 1000baseT-FDX, auto  
bge0: Ethernet address: 00:e0:b8:81:78:10  
bge0: [ITHREAD]  
iwi0: <Intel(R) PRO/Wireless 2200BG> mem 0xc8216000-0xc8216fff irq 17 at device 4.0 on pci6  
iwi0: using obsoleted if\_watchdog interface  
iwi0: Ethernet address: 00:12:f0:20:44:52  
iwi0: [ITHREAD]  
cbb0: <TI6411 PCI-CardBus Bridge> at device 9.0 on pci6  
cardbus0: <CardBus bus> on cbb0  
pccard0: <16-bit PCCard bus> on cbb0  
cbb0: [ITHREAD]  
fwohci0: <1394 Open Host Controller Interface> mem 0xc8217000-0xc82177ff,0xc8210000-0xc8213fff irq  
18 at device 9.2 on pci6  
fwohci0: [ITHREAD]  
fwohci0: OHCI version 1.10 (ROM=1)  
fwohci0: No. of Isochronous channels is 4.  
fwohci0: EUI64 00:e0:b8:06:04:00:07:8d  
fwohci0: Phy 1394a available S400, 2 ports.  
fwohci0: Link S400, max\_rec 2048 bytes.  
firewire0: <IEEE1394(FireWire) bus> on fwohci0  
sbp0: <SBP-2/SCSI over FireWire> on firewire0  
dcons\_crom0: <dcons configuration ROM> on firewire0  
dcons\_crom0: bus\_addr 0x7d721000  
fwohci0: Initiate bus reset  
fwohci0: BUS reset  
fwohci0: node\_id=0xc000ffc0, gen=1, CYCLEMASTER mode  
firewire0: 1 nodes, maxhop <= 0, cable IRM = 0 (me)  
firewire0: bus manager 0 (me)  
pci6: <mass storage> at device 9.3 (no driver attached)  
pci6: <base peripheral> at device 9.4 (no driver attached)  
pcm0: <Intel ICH6 (82801FB)> port 0x1c00-0x1cff,0x1880-0x18bf mem  
0xc8000800-0xc80009ff,0xc8000400-0xc80004ff irq 21 at device 30.2 on pci0  
pcm0: [ITHREAD]  
pcm0: <Conexant CX20468-21 AC97 Codec>  
pci0: <simple comms, generic modem> at device 30.3 (no driver attached)  
isab0: <PCI-ISA bridge> at device 31.0 on pci0  
isa0: <ISA bus> on isab0  
atapci0: <Intel ICH6 UDMA100 controller> port 0x1f0-0x1f7,0x3f6,0x170-0x177,0x376,0x18c0-0x18cf at  
device 31.1 on pci0  
ata0: <ATA channel 0> on atapci0  
ata0: [ITHREAD]  
ata1: <ATA channel 1> on atapci0  
ata1: [ITHREAD]  
ichsmb0: <SMBus controller> port 0x20a0-0x20bf irq 19 at device 31.3 on pci0

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```
ichsmb0: [GIANT-LOCKED]
ichsmb0: [ITHREAD]
smbus0: <System Management Bus> on ichsmb0
smb0: <SMBus generic I/O> on smb0
acpi_tz0: <Thermal Zone> on acpi0
atkbd0: <Keyboard controller (i8042)> port 0x60,0x64 irq 1 on acpi0
atkbd0: <AT Keyboard> irq 1 on atkbd0
kbd0 at atkbd0
atkbd0: [GIANT-LOCKED]
atkbd0: [ITHREAD]
psm0: current command byte:0047
psm0: found IntelliMouse
psm0: <PS/2 Mouse> irq 12 on atkbd0
psm0: [GIANT-LOCKED]
psm0: [ITHREAD]
psm0: model IntelliMouse, device ID 3-00, 3 buttons
psm0: config:00000000, flags:00000008, packet size:4
psm0: syncmask:08, syncbits:00
pmtimer0 on isa0
orm0: <ISA Option ROMs> at iomem 0xc0000-0xcdfff,0xe4000-0xe47ff pnpid ORM0000 on isa0
sc0: <System console> at flags 0x100 on isa0
sc0: VGA <16 virtual consoles, flags=0x300>
sio0: configured irq 4 not in bitmap of probed irqs 0
sio0: port may not be enabled
sio0: configured irq 4 not in bitmap of probed irqs 0
sio0: port may not be enabled
sio0 at port 0x3f8-0x3ff irq 4 flags 0x10 on isa0
sio0: type 8250 or not responding
sio0: [FILTER]
sio1: configured irq 3 not in bitmap of probed irqs 0
sio1: port may not be enabled
vga0: <Generic ISA VGA> at port 0x3c0-0x3df iomem 0xa0000-0xbffff on isa0
ums0: <Logitech USB-PS/2 Optical Mouse, class 0/0, rev 2.00/20.00, addr 2> on uhub1
ums0: 3 buttons and Z dir.
Timecounter "TSC" frequency 1615160560 Hz quality 800
Timecounters tick every 1.000 msec
ad0: 114473MB <Seagate ST9120821A 3.06> at ata0-master UDMA100
acd0: DVDR <QSI DVD+/-RW SDW-082/LX51> at ata0-slave UDMA33
acd0: FAILURE - INQUIRY ILLEGAL REQUEST asc=0x24 ascq=0x00
cd0 at ata0 bus 0 target 1 lun 0
cd0: <QSI DVD+/-RW SDW-082 LX51> Removable CD-ROM SCSI-0 device
cd0: 33.000MB/s transfers
cd0: Attempt to query device size failed: NOT READY, Medium not present
Trying to mount root from ufs:/dev/ad0s2a
```

Kernel configuration file:

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

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## Synaptic tochpad recognize

```
# 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 1.468 2007/05/28 14:38:42 simokawa Exp $

#cpu I486_CPU
#cpu I586_CPU
cpu I686_CPU
ident KERNEL

# 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 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 UFS_GJOURNAL # Enable gjournal-based UFS journaling
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_PART_GPT # GUID Partition Tables.
options GEOM_LABEL # Provides labelization
options COMPAT_43TTY # BSD 4.3 TTY compat [KEEP THIS!]
options COMPAT_FREEBSD4 # Compatible with FreeBSD4
options COMPAT_FREEBSD5 # Compatible with FreeBSD5
options COMPAT_FREEBSD6 # Compatible with FreeBSD6
```

## Synaptic tochpad recognize

```
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 extension
s
options KBD_INSTALL_CDEV # install a CDEV entry in /dev
options ADAPTIVE_GIANT # Giant mutex is adaptive.
options STOP_NMI # Stop CPUS using NMI instead of IPI

# Debugging for use in -current
#options KDB # Enable kernel debugger support.
#options DDB # Support DDB.
#options GDB # Support remote GDB.
#options INVARIANTS # Enable calls of extra sanity checking
#options INVARIANT_SUPPORT # Extra sanity checks of internal structures, required by INVARIANTS
#options WITNESS # Enable checks to detect deadlocks and cycles
#options WITNESS_SKIPSPIN # Don't run witness on spinlocks for speed

# To make an SMP kernel, the next two lines are needed
#options SMP # Symmetric MultiProcessor Kernel
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
#options AHC_REG_PRETTY_PRINT # Print register bitfields in debug
# output. Adds ~128k to driver.
#device ahd # AHA39320/29320 and onboard AIC79xx devices
#options AHD_REG_PRETTY_PRINT # Print register bitfields in debug
# output. Adds ~215k to driver.
```

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## Synaptic tochipad recognize

```
#device amd # AMD 53C974 (Tekram DC-390(T))
#device hptiop # Highpoint RocketRaid 3xxx series
#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
#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
```

## Synaptic tochpad recognize

```
# 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

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
device cardbus # CardBus (32-bit) bus

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

# 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 sio, uart 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 le # AMD Am7900 LANCE and Am79C9xx PCnet
#device txp # 3Com 3cR990 (`Typhoon")
#device vx # 3Com 3c590, 3c595 (`Vortex")
```

## Synaptic tochpad recognize

```
# 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 msk # Marvell/SysKonnect Yukon II 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 'le')
#device re # RealTek 8139C+/8169/8169S/8110S
#device rl # RealTek 8129/8139
#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 stge # Sundance/Tamarack TC9021 gigabit Ethernet
#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 sn # SMC's 9000 series of Ethernet chips
#device xe # Xircom pccard Ethernet

# Wireless NIC cards
device wlan # 802.11 support
device wlan_wep # 802.11 WEP support
device wlan_ccmp # 802.11 CCMP support
device wlan_tkip # 802.11 TKIP support
device wlan_amrr # AMRR transmit rate control algorithm
#device an # Aironet 4500/4800 802.11 wireless NICs.
#device ath # Atheros pci/cardbus NIC's
#device ath_hal # Atheros HAL (Hardware Access Layer)
#device ath_rate_sample # SampleRate tx rate control for ath
#device awi # BayStack 660 and others
```

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```
#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)  
device firmware # firmware assist module
```

```
# 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  
#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 rum # Ralink Technology RT2501USB 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
```

```
# FireWire support
```

```
device firewire # FireWire bus code  
device sbp # SCSI over FireWire (Requires scbus and da)  
#device fwe # Ethernet over FireWire (non-standard!)  
#device fwip # IP over FireWire (RFC 2734,3146)
```

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## Synaptic tochpad recognize

```
device dcons # Dumb console driver
device dcons_crom # Configuration ROM for dcons
```

```
device smb
device smbus
device ichsmb
device iwi
device sound
device snd_ich
device atapicam
device drm
options COMPAT_LINUX
options LINPROCFS
options PSM_DEBUG=2
```

dmesg log:

Thanks In Advance  
Vladimir

---

freebsd-current@xxxxxxxxxxx mailing list  
<http://lists.freebsd.org/mailman/listinfo/freebsd-current>  
To unsubscribe, send any mail to "freebsd-current-unsubscribe@xxxxxxxxxxx"