

## RE: repeatable crash with 5.4-RELEASE and PAE

*Source:* <http://unix.derkeiler.com/Mailing-Lists/FreeBSD/stable/2005-06/0056.html>

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*From:* Danny Cooper ([danny.cooper\\_at\\_uk.tiscali.com](mailto:danny.cooper_at_uk.tiscali.com))

*Date:* 06/02/05

To: "'Brendan White'" <[bmwt@caida.org](mailto:bmwt@caida.org)>, <[freebsd-stable@freebsd.org](mailto:freebsd-stable@freebsd.org)>

Date: Thu, 2 Jun 2005 22:09:47 +0100

Hi Brendan,

I have 2

Dual Xeon 3.6 Dell Poweredge 2850

4 gigs of ram

8 gigs of swap

amr raid

They can crash at any moment not just underload, I persisted for 10 days to get a stable system with and without PAE but to no avail with 4GB of RAM.

I did try and turn off ACPI, HTT which made the machine more stable but only for 6-24 hours.

I have formatted the one machine with FreeBSD 5.4R (amd64) and have keep the CPU 100% with a load average of 4.00 for 2 hours and no crash.

I haven't started to mess around with memory settings yet to increase the performance of the machine, as want to run it underload for a day then start to tune the box.

I also turned USB in the kernel and rc.conf

```
usbd_enable="NO"
```

Here is my amd64 kernel

```
/usr/src/sys/amd64/conf/MK-TESTBOX-1-SMP
# SMP --- Generic kernel configuration file for FreeBSD/amd64 SMP
# Use this for multi-processor machines
#
# $FreeBSD: src/sys/amd64/conf/SMP,v 1.1.2.1 2004/10/23 19:58:27 kensmith
Exp $
include MK-TESTBOX-1
options SMP
```

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```
/usr/src/sys/amd64/conf/MK-TESTBOX-1
# $FreeBSD: src/sys/amd64/conf/GENERIC,v 1.421.2.11.2.1 2005/04/09 17:28:37
kensmith Exp $
```

```
machine amd64
cpu HAMMER
ident MK-TESTBOX-1
```

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

```
options SCHED_4BSD # 4BSD scheduler
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 NTFS # NT File System
#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 # Needed by COMPAT_LINUX32
options COMPAT_IA32 # Compatible with i386 binaries
options COMPAT_FREEBSD4 # Compatible with FreeBSD4
options COMPAT_LINUX32 # Compatible with i386 linux
binaries
options SCSI_DELAY=15000 # 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.
```

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# Workarounds for some known-to-be-broken chipsets (nVidia nForce3-Pro150)

device atpic # 8259A compatability

# Enabling NO\_MIXED\_MODE gives a performance improvement on some motherboards

# but does not work with some boards (mostly nVidia chipset based).

#options NO\_MIXED\_MODE # Don't penalize working chipsets

# Linux 32-bit ABI support

options LINPROCFS # Cannot be a module yet.

# Bus support. Do not remove isa, even if you have no isa slots

device acpi

device isa

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

#device bt # Buslogic/Mylex MultiMaster SCSI adapters

# SCSI peripherals

device scbus # SCSI bus (required for SCSI)

device ch # SCSI media changers

device da # Direct Access (disks)

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```
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 ciss # Compaq Smart RAID 5*
#device dpt # DPT Smartcache III, IV - See NOTES for
options
#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 mlx # Mylex DAC960 family
##XXX pointer/int warnings
##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 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

# 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

# Parallel port
#device ppc
#device ppbus # Parallel port bus (required)
#device lpt # Printer
#device plip # TCP/IP over parallel
```

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```
#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 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 pcn # AMD Am79C97x PCI 10/100 (precedence over
'Inc')
#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 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'
# XXX kvtop brokenness, pointer/int warnings
#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
```

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```
#device fe # Fujitsu MB8696x based cards
# XXX kvtop brokenness, pointer/int warnings
#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 wi # WaveLAN/Intersil/Symbol 802.11 wireless
NICs.

# Pseudo devices.
device loop # Network loopback
device mem # Memory and kernel memory devices
device io # I/O device
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
#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 urio # Diamond Rio 500 MP3 player
#device uscanner # Scanners
## USB Ethernet, requires mii
#device aue # ADMtek USB Ethernet
#device axe # ASIX Electronics USB Ethernet
#device cdce # Generic USB over Ethernet
#device cue # CATC USB Ethernet
```

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```
#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!)

options IPFIREWALL #firewall
options IPFIREWALL_DEFAULT_TO_ACCEPT #allow everything by default
options IPFILTER #ipfilter support
options IPFILTER_LOG #ipfilter logging
```

Regards,

Danny Cooper

-----Original Message-----

From: owner-freebsd-stable@freebsd.org  
[mailto:owner-freebsd-stable@freebsd.org] On Behalf Of Brendan White  
Sent: 02 June 2005 21:00  
To: freebsd-stable@freebsd.org  
Subject: repeatable crash with 5.4-RELEASE and PAE

We're having crash under load problems using freebsd 5.4-release (i386) and PAE kernel.

Machine:  
Dual Xeon 3.6 Dell Poweredge 2850  
8 gigs of ram  
16 gigs of swap  
amr raid

The machine will reliably crash under load within an hour or so.  
"under load" involves large network transfers being processed by cpu and memory intensive processes.

i cant get a crash dump (when it starts dumping, it will stop part way thru displaying memory increments.)

I have gotten it to spit out a trace from KDB, which i've copied out below.

(i had to do it from a screenshot/by hand- i checked it twice, but if things dont make sence, there may be a typo)

kernel config included below the trace.  
We've tried turning off hyperthreading. The problem persists.  
We've tried turning off PAE (which brings us from 8 gigs to 3). The problem goes away.  
This is obviously not the optimal solution.

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```
---
kdb_enter(c05a1e33) at kdb_enter+0x2b
panic(c05a0a51,ffffffe,c05a0a3b,cb65ed80,ffffffe) at panic+0x127
lockmgr(cbadb7e4,6,cbadb738,0,f1b93a0c) at lockmgr+0x421
vop_stdunlock(f1b93a3c,f1b93a18,c038320f,f1b93a3c,f1b93a59) at
vop_stdunlock+0x1f
vop_defaultop(f1b93a3c,f1b93a58,c038379c,f1b93a3c,1000) at
vop_defaultop+0x13
spec_vnoperate(f1b93a3c,1000,7f010000,cb4e100,f1b93aa4) at
spec_vnoperate+0x13
spec_write(f1b93a84,f1b93ad0,c04fce99,f1b93a84,cb65ed80) at spec_write
+0x64
spec_vnoperate(f1b93a84) at spec_vnoperate+0x13
vnode_pager_generic_putpages(cbadb738,f1b93be0,1000,0,f1b93b60) at
vnode_pager_generic_putpages+0x221
vop_stdputpages
(f1b93b18,f1b93b18,f1b93b04,c038320f,f1b93b18,f1b93b44) at
vop_stdputpages+0x1a
vop_defaultop(f1b93b18,f1b93b44,c04fcc36,f1b93b18,1000) at
vop_defaultop+0x13
spec_vnoperate(f1b93b18) at spec_vnoperate+0x13
vnode_pager_putpages(cbb53ad4,f1b93be0,1,0,f1b93b60) at
vnode_pager_putpages+0xba
vm_pageout_flush(f1b93be0,1,0,cbd7a600,f1b93bb8) at vm_pageout_flush
+0xcb
vm_pageout_clean(c4254e4c) at vm_pageout_clean+0x2a1
vm_pageout_scan(0) at vm_pageout_scan+0x706
vm_pageout(0,f1b93d38) at vm_pageout+0x312
fork_exit(c04f5e1c,0,f1b93d38) at fork_exit+0x75
fork_trampoline() at fork_trampoline+0x8
--- trap 0x1, eip=0, esp = 0xf1b93d6c, ebp = 0 ---
kernel config:
include GENERIC
ident PAE-GENERIC
options KDB_TRACE
options KDB
options DDB
makeoptions DEBUG=-g
options SMP
options COMPAT_LINUX
device acpi
makeoptions NO_MODULES=yes
nodevice ahb
nodevice amd
nodevice sym
nodevice trm
nodevice adv
nodevice adw
nodevice aha
nodevice aic
nodevice bt
nodevice ncv
nodevice nsp
nodevice stg
nodevice asr
nodevice dpt
nodevice iir
nodevice mly
nodevice ida
nodevice mlx
nodevice pst
nodevice agp
```

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nodevice de  
nodevice txp  
nodevice vx  
nodevice dc  
nodevice pcn  
nodevice rl  
nodevice sf  
nodevice sis  
nodevice ste  
nodevice tl  
nodevice tx  
nodevice vr  
nodevice wb  
nodevice cs  
nodevice ed  
nodevice ex  
nodevice ep  
nodevice fe  
nodevice ie  
nodevice lnc  
nodevice sn  
nodevice xe  
nodevice wlan  
nodevice an  
nodevice awi  
nodevice wi  
nodevice uhci  
nodevice ohci  
nodevice ehci  
nodevice usb  
nodevice ugen  
nodevice uhid  
nodevice ukbd  
nodevice ulpt  
nodevice umass  
nodevice ums  
nodevice urio  
nodevice uscanner  
nodevice aue  
nodevice axe  
nodevice cdce  
nodevice cue  
nodevice kue  
nodevice rue

---

freebsd-stable@freebsd.org mailing list

<http://lists.freebsd.org/mailman/listinfo/freebsd-stable>

To unsubscribe, send any mail to "freebsd-stable-unsubscribe@freebsd.org"

***attached mail follows:***

---

To: "'David Barnett'" <davidb@santacruz.k12.ca.us>, "'Gary Schrock'" <lists@eyelab.psy.msu.edu>  
Date: Thu, 2 Jun 2005 18:03:57 +0100

I have disabled usb via rc.conf

usbd\_enable="NO"

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But in the new custom kernel I have commented out all of the usb devices and firewire.

However the machine managed to stay up for 22 hours without any problems.

But I decided to put it underload, through multiple make de/install's of mysql, apache, php, net-snmp to get the load of the machine high but after 1 hour of load, the machine crashed once again.

Now I have formatted one of the 2850's and put FreeBSD 5.4R (amd64)

I still have disabled usb and nonessential parts of the kernel and placed the machine under heavy load, so far so good.

DC

-----Original Message-----

From: owner-freebsd-stable@freebsd.org

[mailto:owner-freebsd-stable@freebsd.org] On Behalf Of David Barnett

Sent: 02 June 2005 17:52

To: Gary Schrock

Cc: freebsd-stable@freebsd.org

Subject: Re: DELL PowerEdge 2850 and FreeBSD 5.4

Gary,

I'm fighting the same battle on two new 2850's and two 1850's; "Interrupt storm detected on "irq18:uhci2"; throttling interrupt source".

These machines have 2GB of ram and I using the i386 5.4Rel. version.

This happens

right after the reboot at the end of an install from CD. I've chosen to install "all",

and bring up the ethernet interface. When I get the message, the machine is unresponsive

to keyboard input or pings; basically frozen. I also tried 5.3 Rel. with the same results.

From searching the lists I concluded disabling USB might be worth trying, so I did that in the BIOS. I'm still getting the same message and freeze.

How are you disabling USB? It seems that has worked for you.

One tidbit, they have the DRAC 4/I remote access controller cards in them, but I have no reason to believe they're involved at this point. Oh, and firmware is current throughout.

Thanks for any hints.

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Dave Barnett

Gary Schrock wrote:

> At 05:05 AM 6/1/2005, you wrote:  
>  
>> *I have checked on the DELL site for any updates to the BIOS/Firmware  
>> and the  
>> 2 PE2850's are running the latest versions.  
>>  
>> BIOS A02  
>> Dell Backplane Firmware, v.1.00, A00  
>> Dell BMC Firmware, v.1.23, A03  
>> LSI Logic Perc 4e/Di, v.516A, A01  
>>  
>> Both machines have the same symptoms or the reboots at random times.  
>>  
>> I have now disabled the USB via rc.conf to see if the reboots still  
>> occur.  
>> On one machine I shall drop the PAE kernel and see if that increases the  
>> stability  
>  
>  
> We've been running a 2850 with dual processors for a while now,  
> although we're only running 2G of ram. I'm also running the i386  
> version of freebsd instead of amd64 (since I couldn't decide whether  
> I'd really gain anything by running that version, especially with my  
> low ram amount). We did initially have a problem with our add-on  
> perc4 controller, but that was obviously a problem with that  
> controller, but after that was resolved, the only issue I've had with  
> it is the usb interrupt storms. Since we don't use usb on that  
> system, I've just completely disabled it. After that, it's run  
> flawlessly for about 6 months now.  
>  
>> Regards  
>>  
>> Danny  
>>  
>> -----Original Message-----  
>> From: owner-freebsd-stable@freebsd.org  
>> [mailto:owner-freebsd-stable@freebsd.org] On Behalf Of Vinny Abello  
>> Sent: 01 June 2005 05:10  
>> To: Danny Cooper  
>> Cc: freebsd-stable@freebsd.org  
>> Subject: RE: DELL PowerEdge 2850 and FreeBSD 5.4  
>>  
>> What BIOS revision are you running in your 2850? Make sure all your  
>> firmware is up to date. I had problems with an slightly older Dell  
>> 2650 trying to install FreeBSD until I flashed the latest RAID  
>> controller firmware. If this doesn't help, try running some  
>> diagnostics on the hardware. Dell has some pretty extensive*

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>> utilities. I think you can boot a Dell diagnostic CD you download  
>> from their web site. It's possible you have bad RAM.  
>>  
>> At 11:50 AM 5/31/2005, Danny Cooper wrote:  
>> >With the kernel I removed all non-required devices  
>> >  
>> >Firewire, usb all the NIC's except em and removed all RAID and SCSI  
>> >controllers to make sure nothing would interfere.  
>> >  
>> >I tried to boot with the AMD64 CD but with no success, the machine just  
>> >hangs when it tries to load the CD, still trying to work out a  
>> solution to  
>> >the problem, but it just seems these DELL 2850 machines are for  
>> Windows or  
>> >RedHat!!!  
>> >  
>> >DC  
>> >  
>> >-----Original Message-----  
>> >From: owner-freebsd-stable@freebsd.org  
>> >[mailto:owner-freebsd-stable@freebsd.org] On Behalf Of Claus Guttesen  
>> >Sent: 31 May 2005 16:15  
>> >To: Danny Cooper  
>> >Cc: freebsd-stable@freebsd.org  
>> >Subject: Re: DELL PowerEdge 2850 and FreeBSD 5.4  
>> >  
>> > > I have installed FreeBSD 5.4 RELEASE and upgraded to -STABLE on a  
>> DELL  
>> > > PE2850.  
>> > >  
>> > > FreeBSD 5.4-STABLE #1: Wed May 25 23:43:12 BST 2005  
>> > > CPU: Intel(R) Xeon(TM) CPU 3.20GHz (3192.22-MHz 686-class CPU)  
>> > > real memory = 5100273664 (4864 MB)  
>> > > avail memory = 4189892608 (3995 MB)  
>> > > MPTable: <DELL PE 016D >  
>> > > FreeBSD/SMP: Multiprocessor System Detected: 2 CPUs  
>> > > cpu0 (BSP): APIC ID: 0  
>> > > cpu1 (AP): APIC ID: 6  
>> > > amr0: <LSILogic PERC 4e/Di> Firmware 516A, BIOS H418, 256MB RAM  
>> > >  
>> > > I have disabled ACPI HTT and enabled PAE to make the whole system  
>> memory  
>> > > available.  
>> > >  
>> > > However the problem I have is the system can crash at any moment,  
>> and is  
>> > > not  
>> > > load related. As the crash info below is when the machine was in  
>> an 100%  
>> > > idle state.  
>> > >

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>> >I have the same hardware as well, running on the i386-port. I have  
>> >disabled usb with `usb_enable="NO"` in `/etc/rc.conf`. I have no idea  
>> >whether this helps but haven't had an issue with the 2850. Except  
>> >with a `qlogic-hba` and the `isp-driver` (I suspect) *\*on\* amd64, but \*not\**  
>> >on i386.  
>> >  
>> >Claus  
>> >  
>> >-----  
>> >freebsd-stable@freebsd.org mailing list  
>> ><http://lists.freebsd.org/mailman/listinfo/freebsd-stable>  
>> >To unsubscribe, send any mail to  
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>> >  
>> >  
>> >-----  
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>> >"freebsd-stable-unsubscribe@freebsd.org"  
>> >  
>> >  
>> >Vinny Abello  
>> >Network Engineer  
>> >Server Management  
>> >vinny@tellurian.com  
>> >(973)300-9211 x 125  
>> >(973)940-6125 (Direct)  
>> >PGP Key Fingerprint: 3BC5 9A48 FC78 03D3 82E0 E935 5325 FBCB 0100 977A  
>> >  
>> >Tellurian Networks - The Ultimate Internet Connection  
>> ><http://www.tellurian.com> (888)TELLURIAN  
>> >  
>> >"Courage is resistance to fear, mastery of fear - not absence of  
>> >fear" -- Mark Twain  
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freebsd-stable: RE: repeatable crash with 5.4-RELEASE and PAE

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