

# Re: Failure of gvinum after panic

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*Source:* <http://unix.derkeiler.com/Mailing-Lists/FreeBSD/stable/2007-12/msg00591.html>

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- *From:* "Nikolaj Hansen" <[barnabasdk@xxxxxxxxx](mailto:barnabasdk@xxxxxxxxx)>
  - *Date:* Fri, 28 Dec 2007 08:05:31 +0100
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A little more info on the config and how it should be:

current config dump:

```
# Vinum configuration of , saved at Fri Dec 28 07:31:54 2007
drive elben device /dev/dals1h
drive donau device /dev/da0s1h
drive raid5_4_ad11 device /dev/ad11
drive raid5_3_ad10 device /dev/ad10
drive raid5_2_ad9 device /dev/ad9
drive raid5_1_ad8 device /dev/ad8
drive spree device /dev/ad4a
volume data01
volume usr
volume home
volume tmp
volume var
volume media
plex name data01.p0 org concat vol data01
plex name usr.p1 org concat
plex name home.p1 org concat
plex name tmp.p1 org concat
plex name var.p1 org concat
plex name usr.p0 org concat
plex name home.p0 org concat
plex name tmp.p0 org concat
plex name var.p0 org concat
plex name media.p0 org raid5 1024s vol media
sd name data01.p0.s0 drive spree len 234434560s driveoffset 265s plex
data01.p0 plexoffset 0s
sd name usr.p1.s0 drive elben len 11521427s driveoffset 4505865s
sd name home.p1.s0 drive elben len 2048000s driveoffset 2457865s
sd name tmp.p1.s0 drive elben len 1228800s driveoffset 1229065s
sd name var.p1.s0 drive elben len 1228800s driveoffset 265s
sd name usr.p0.s0 drive donau len 11521427s driveoffset 4505865s
sd name home.p0.s0 drive donau len 2048000s driveoffset 2457865s
sd name tmp.p0.s0 drive donau len 1228800s driveoffset 1229065s
sd name var.p0.s0 drive donau len 1228800s driveoffset 265s
sd name media.p0.s0 drive raid5_1_ad8 len 398282752s driveoffset 265s
```

Re: Failure of gvinum after panic

```
plex media.p0 plexoffset 0s
sd name media.p0.s1 drive raid5_2_ad9 len 398282752s driveoffset 265s
plex media.p0 plexoffset 1024s
sd name media.p0.s2 drive raid5_3_ad10 len 398282752s driveoffset 265s
plex media.p0 plexoffset 2048s
sd name media.p0.s3 drive raid5_4_ad11 len 398282752s driveoffset 265s
```

How the plexes should read out:

```
P usr.p1 C State: up Subdisks: 1 Size: 5625 MB
P home.p1 C State: up Subdisks: 1 Size: 1000 MB
P tmp.p1 C State: up Subdisks: 1 Size: 600 MB
P var.p1 C State: up Subdisks: 1 Size: 600 MB
P usr.p0 C State: up Subdisks: 1 Size: 5625 MB
P home.p0 C State: up Subdisks: 1 Size: 1000 MB
P tmp.p0 C State: up Subdisks: 1 Size: 600 MB
P var.p0 C State: up Subdisks: 1 Size: 600 MB
```

The way it reads out:

```
P usr.p1 C State: up Subdisks: 0 Size: 0 B
P home.p1 C State: up Subdisks: 0 Size: 0 B
P tmp.p1 C State: up Subdisks: 0 Size: 0 B
P var.p1 C State: up Subdisks: 0 Size: 0 B
P usr.p0 C State: up Subdisks: 0 Size: 0 B
P home.p0 C State: up Subdisks: 0 Size: 0 B
P tmp.p0 C State: up Subdisks: 0 Size: 0 B
P var.p0 C State: up Subdisks: 0 Size: 0 B
```

The difference is obvious – somehow gvinum lost track of the plex to subdisk relations.

Is there any way of restoring these?

What would happen if I where to re–create the Plexes? (Drop/create) and then saveconfig?

Thanks

Nikolaj Hansen

On Dec 28, 2007 2:06 AM, Nikolaj Hansen <barnabasdk@xxxxxxxxxx> wrote:

Hi all,

I have some problems with my gvinum setup after the system panic'ed. Afterwards the system fails finding the plexes to the subdisks (or at least that is what I can understand after having searched the gvinum source code for the error string in the DMESG log..)

The machine is an IBM Netfinity 5000 and the internal HW self tests

Re: Failure of gvinum after panic

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does not find any errors in the hw.

Luckily my root is not on a gvinum drive, so I am able to boot the server in single user.

Does anyone have any hints as to what I can do to get gvinum to recognize the disks correctly?

The system is 6.3 stable

Dont worry about the media disks or anything right now – I am trying to revive the system disks for now.

Thanks

Nikolaj Hansen

7 drives:

D elben State: up /dev/dals1h A: 0/7825 MB (0%)  
D donau State: up /dev/da0s1h A: 0/7825 MB (0%)  
D raid5\_4\_ad11 State: up /dev/ad11 A: 6/194480 MB (0%)  
D raid5\_3\_ad10 State: up /dev/ad10 A: 6/194480 MB (0%)  
D raid5\_2\_ad9 State: up /dev/ad9 A: 6/194480 MB (0%)  
D raid5\_1\_ad8 State: up /dev/ad8 A: 6/194480 MB (0%)  
D spree State: up /dev/ad4a A: 3/114473 MB (0%)

6 volumes:

V data01 State: up Plexes: 1 Size: 111 GB  
V usr State: up Plexes: 0 Size: 0 B  
V home State: up Plexes: 0 Size: 0 B  
V tmp State: up Plexes: 0 Size: 0 B  
V var State: up Plexes: 0 Size: 0 B  
V media State: up Plexes: 1 Size: 379 GB

10 plexes:

P data01.p0 C State: up Subdisks: 1 Size: 111 GB  
P usr.p1 C State: up Subdisks: 0 Size: 0 B  
P home.p1 C State: up Subdisks: 0 Size: 0 B  
P tmp.p1 C State: up Subdisks: 0 Size: 0 B  
P var.p1 C State: up Subdisks: 0 Size: 0 B  
P usr.p0 C State: up Subdisks: 0 Size: 0 B  
P home.p0 C State: up Subdisks: 0 Size: 0 B  
P tmp.p0 C State: up Subdisks: 0 Size: 0 B  
P var.p0 C State: up Subdisks: 0 Size: 0 B  
P media.p0 R5 State: degraded Subdisks: 3 Size: 379 GB

13 subdisks:

S data01.p0.s0 State: up D: spree Size: 111 GB  
S usr.p1.s0 State: up D: elben Size: 5625 MB  
S home.p1.s0 State: up D: elben Size: 1000 MB  
S tmp.p1.s0 State: up D: elben Size: 600 MB

Re: Failure of gvinum after panic

S var.p1.s0 State: up D: elben Size: 600 MB  
S usr.p0.s0 State: up D: donau Size: 5625 MB  
S home.p0.s0 State: up D: donau Size: 1000 MB  
S tmp.p0.s0 State: up D: donau Size: 600 MB  
S var.p0.s0 State: up D: donau Size: 600 MB  
S media.p0.s0 State: up D: raid5\_1\_ad8 Size: 189 GB  
S media.p0.s1 State: up D: raid5\_2\_ad9 Size: 189 GB  
S media.p0.s2 State: stale D: raid5\_3\_ad10 Size: 189 GB  
S media.p0.s3 State: up D: raid5\_4\_ad11 Size: 189 GB

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FreeBSD 6.2–RELEASE–p6 #0: Wed Jul 18 23:33:58 CEST 2007

root@xxxxxxxxxxxxxxxxxxxxx:/usr/src/sys/i386/compile/KERNEL\_6\_2

Timecounter "i8254" frequency 1193182 Hz quality 0

CPU: Pentium III/Pentium III Xeon/Celeron (498.67–MHz 686–class CPU)

Origin = "GenuineIntel" Id = 0x673 Stepping = 3

Features=0x387fbff<FPU,VME,DE,PSE,TSC,MSR,PAE,MCE,CX8,APIC,SEP,MTRR,PGE,MCA,CMOV,PA

real memory = 536854528 (511 MB)

avail memory = 515715072 (491 MB)

ACPI APIC Table: <IBM SERMOHIC>

FreeBSD/SMP: Multiprocessor System Detected: 2 CPUs

cpu0 (BSP): APIC ID: 1

cpu1 (AP): APIC ID: 0

MADT: Forcing active–low polarity and level trigger for SCI

ioapic0 <Version 1.1> irqs 0–23 on motherboard

kbd1 at kbdmux0

acpi0: <IBM SERMOHIC> on motherboard

acpi0: Power Button (fixed)

Timecounter "ACPI–safe" frequency 3579545 Hz quality 1000

acpi\_timer0: <24–bit timer at 3.579545MHz> port 0xfe88–0xfe8b on acpi0

cpu0: <ACPI CPU> on acpi0

cpu1: <ACPI CPU> on acpi0

pcib0: <ACPI Host–PCI bridge> port 0xcf8–0xcff on acpi0

pci0: <ACPI PCI bus> on pcib0

skc0: <3Com 3C940 Gigabit Ethernet> port 0x2000–0x20ff mem

0xfebfc000–0xfebffff irq 18 at device 1.0 on pci0

skc0: 3Com Gigabit NIC (3C2000) rev. (0x1)

sk0: <Marvell Semiconductor, Inc. Yukon> on skc0

sk0: Ethernet address: 00:0a:5e:5c:c0:83

miibus0: <MII bus> on sk0

e1000phy0: <Marvell 88E1000 Gigabit PHY> on miibus0

e1000phy0: 10baseT, 10baseT–FDX, 100baseTX, 100baseTX–FDX, 1000baseTX–FDX,  
auto

ahc0: <Adaptec aic7895 Ultra SCSI adapter> port 0x2200–0x22ff mem

0xfebfb000–0xfebffff irq 16 at device 6.0 on pci0

ahc0: [GIANT–LOCKED]

aic7895C: Ultra Wide Channel A, SCSI Id=7, 32/253 SCBs

ahc1: <Adaptec aic7895 Ultra SCSI adapter> port 0x2300–0x23ff mem

Re: Failure of gvinum after panic

0xfebfa000–0xfebfa000 irq 16 at device 6.1 on pci0  
ahc1: [GIANT–LOCKED]  
aic7895C: Ultra Wide Channel B, SCSI Id=15, 32/253 SCBs  
s3pci0: <S3 graphic card> port 0x3c0–0x3df,0x4ae8 mem  
0xf8000000–0xfbf00000 irq 9 at device 10.0 on pci0  
isab0: <PCI–ISA bridge> port 0xfe00–0xfe0f at device 15.0 on pci0  
isa0: <ISA bus> on isab0  
atapci0: <GENERIC ATA controller> port  
0x1f0–0x1f7,0x3f6,0x170–0x177,0x376 irq 18 at device 15.1 on pci0  
ata0: <ATA channel 0> on atapci0  
ata1: <ATA channel 1> on atapci0  
ohci0: <OHCI (generic) USB controller> mem 0xff700000–0xff700fff irq  
18 at device 15.2 on pci0  
ohci0: [GIANT–LOCKED]  
usb0: OHCI version 1.0, legacy support  
usb0: <OHCI (generic) USB controller> on ohci0  
usb0: USB revision 1.0  
uhub0: (0x1166) OHCI root hub, class 9/0, rev 1.00/1.00, addr 1  
uhub0: 2 ports with 2 removable, self powered  
pcib1: <ACPI Host–PCI bridge> on acpi0  
pci1: <ACPI PCI bus> on pcib1  
atapci1: <CMD 649 UDMA100 controller> port  
0x4af0–0x4af7,0x4aec–0x4aef,0x4af8–0x4aff,0x4b00–0x4b03,0x4b10–0x4b1f  
irq 19 at device 2.0 on pci1  
ata2: <ATA channel 0> on atapci1  
ata3: <ATA channel 1> on atapci1  
atapci2: <Promise PDC20268 UDMA100 controller> port  
0x4b08–0x4b0f,0x4b04–0x4b07,0x4b20–0x4b27,0x4b28–0x4b2b,0x4b30–0x4b3f  
mem 0xc0fdc000–0xc0fdffff irq 19 at device 3.0 on pci1  
ata4: <ATA channel 0> on atapci2  
ata5: <ATA channel 1> on atapci2  
atkbd0: <Keyboard controller (i8042)> port 0x60,0x64 irq 1 on acpi0  
atkbd0: <AT Keyboard> irq 1 on atkbd0  
kbd0 at atkbd0  
atkbd0: [GIANT–LOCKED]  
fdc0: <floppy drive controller> port 0x3f2–0x3f7,0x3f7 irq 6 drq 2 on acpi0  
fdc0: No FDOOUT register!  
device\_attach: fdc0 attach returned 6  
ppc0: <ECP parallel printer port> port 0x378–0x37f,0x778–0x77f irq 7  
drq 1 on acpi0  
ppc0: SMC–like chipset (ECP/EPP/PS2/NIBBLE) in COMPATIBLE mode  
ppc0: FIFO with 16/16/8 bytes threshold  
ppbus0: <Parallel port bus> on ppc0  
ppbus0: IEEE1284 device found /NIBBLE/ECP  
Probing for PnP devices on ppbus0:  
ppbus0: <HEWLETT–PACKARD DESKJET 930C> MLC,PCL,PML  
plip0: <PLIP network interface> on ppbus0  
lpt0: <Printer> on ppbus0  
lpt0: Interrupt–driven port  
ppi0: <Parallel I/O> on ppbus0  
sio0: <16550A–compatible COM port> port 0x3f8–0x3ff irq 4 flags 0x10 on acpi0

Re: Failure of gvinum after panic

sio0: type 16550A  
sio1: <16550A-compatible COM port> port 0x2f8-0x2ff irq 3 on acpi0  
sio1: type 16550A  
fdc0: <floppy drive controller> port 0x3f2-0x3f7,0x3f7 irq 6 drq 2 on acpi0  
fdc0: No FDOOUT register!  
device\_attach: fdc0 attach returned 6  
pmtimer0 on isa0  
orm0: <ISA Option ROMs> at iomem  
0xc0000-0xc7fff,0xc8000-0xccfff,0xcd000-0xcd7ff,0xcd800-0xd17ff,0xd1800-0xd3fff  
on isa0  
vga0: <Generic ISA VGA> at port 0x3c0-0x3df iomem 0xa0000-0xbffff on isa0  
sc0: <System console> at flags 0x100 on isa0  
sc0: VGA <16 virtual consoles, flags=0x300>  
umass0: Kingston DataTraveler II, rev 2.00/1.00, addr 2  
Timecounters tick every 1.000 msec  
ad4: 114473MB <WDC WD1200JB-00FUA0 15.05R15> at ata2-master UDMA100  
ad6: 114473MB <WDC WD1200JB-00CRA1 17.07W17> at ata3-master UDMA100  
ad8: 194481MB <Maxtor 6Y200P0 YAR41BW0> at ata4-master UDMA100  
ad9: 194481MB <Maxtor 6Y200P0 YAR41BW0> at ata4-slave UDMA100  
ad10: 194481MB <Maxtor 6Y200P0 YAR41BW0> at ata5-master UDMA100  
ad11: 194481MB <Maxtor 6Y200P0 YAR41BW0> at ata5-slave UDMA100  
Waiting 5 seconds for SCSI devices to settle  
gv\_plex\_taste: NULL p for 'media.p0.s3'  
ses0 at ahc1 bus 0 target 14 lun 0  
ses0: <SDR GEM200 2> Fixed Processor SCSI-2 device  
ses0: 3.300MB/s transfers  
ses0: SAF-TE Compliant Device  
da0 at ahc1 bus 0 target 0 lun 0  
da0: <IBM-PSG ST39103LC !# B227> Fixed Direct Access SCSI-2 device  
da0: 40.000MB/s transfers (20.000MHz, offset 8, 16bit), Tagged Queueing Enabled  
da0: 8678MB (17774160 512 byte sectors: 255H 63S/T 1106C)  
da1 at ahc1 bus 0 target 1 lun 0  
da1: <IBM-PSG DMVS09D !# 01B0> Fixed Direct Access SCSI-3 device  
da1: 40.000MB/s transfers (20.000MHz, offset 8, 16bit), Tagged Queueing Enabled  
da1: 8678MB (17774160 512 byte sectors: 255H 63S/T 1106C)  
SMP: AP CPU #1 Launched!  
da2 at umass-sim0 bus 0 target 0 lun 0  
da2: <Kingston DataTraveler II PMAP> Removable Direct Access SCSI-0 device  
da2: 1.000MB/s transfers  
da2: 983MB (2014208 512 byte sectors: 64H 32S/T 983C)  
gv\_plex\_taste: NULL p for 'var.p0.s0'  
gv\_plex\_taste: NULL p for 'tmp.p0.s0'  
gv\_plex\_taste: NULL p for 'home.p0.s0'  
gv\_plex\_taste: NULL p for 'usr.p0.s0'  
gv\_plex\_taste: NULL p for 'var.p1.s0'  
gv\_plex\_taste: NULL p for 'tmp.p1.s0'  
gv\_plex\_taste: NULL p for 'home.p1.s0'  
gv\_plex\_taste: NULL p for 'usr.p1.s0'  
Trying to mount root from ufs:/dev/da0s1a  
WARNING: / was not properly dismounted  
WARNING: R/W mount of / denied. Filesystem is not clean - run fsck

Re: Failure of gvinum after panic

Subdisk usr.p0.s0:  
Size: 5898970624 bytes (5625 MB)  
State: up  
Drive donau (donau) at offset 2307002880 (2200 MB)

```
/dev/da0s1b none swap sw 0 0  
/dev/da1s1b none swap sw 0 0  
/dev/da0s1a / ufs rw 1 5  
/dev/gvinum/home /home ufs rw 2 5  
/dev/da1s1a /rootback ufs rw 2 6  
/dev/gvinum/tmp /tmp ufs rw 2 1  
/dev/gvinum/usr /usr ufs rw 2 2  
/dev/gvinum/var /var ufs rw 2 3  
/dev/cd0 /cdrom cd9660 ro,noauto 0 0  
/dev/acd0 /cdrom1 cd9660 ro,noauto 0 0  
#/dev/ad6s1 /mnt/media ufs rw 1 1  
#/dev/gvinum/data01 /mnt/data2 ufs rw,noauto 0 0  
#/dev/gvinum/media /mnt/media ufs rw,noauto 1 4
```

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