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[Mount point / Disc size problem Part 2](#)

by [bluescreentt](#) » Mon Jan 25, 2010 5:58 pm

Hi again !

ill try to do as told in the last post now

FreeNAS 0.7.1 (revision 4982) i386-full
HPQOEM SLIC-BPC Intel(R) Pentium(R) D CPU 3.00GHz 3320MiB RAM

Intel 82801H (ICH8) USB controller USB-A Intel 82801H (ICH8) USB controller USB-B Intel 82801H (ICH8) USB controller USB-D Intel 82801H (ICH8) USB controller USB-E Intel 82801H (ICH8) USB 2.0 controller USB2-A RTL8169S/8110S/8211B media interface Intel 82801H (ICH8) USB 2.0 controller USB2-B

"server" is a Compaq Presario dc7700

Image Lost

Image Lost

Image Lost

First off i installed it from scratch again

Image Lost

HDD

Image Lost

OS

Image Lost

Swap

Image Lost

Unconfigured system up and running

Image Lost

Disc Manager

Image Lost

Disc Online

Image Lost

Mount Point

Image Lost

Mount point online

Image Lost

Configured system
and to the problem
the disc size is to smal

Image Lost

What did i do wrong ??

Is this information enough ??

Greets
Thomas

[bluescreentt](#)

Re: Mount point / Disc size problem Part 2

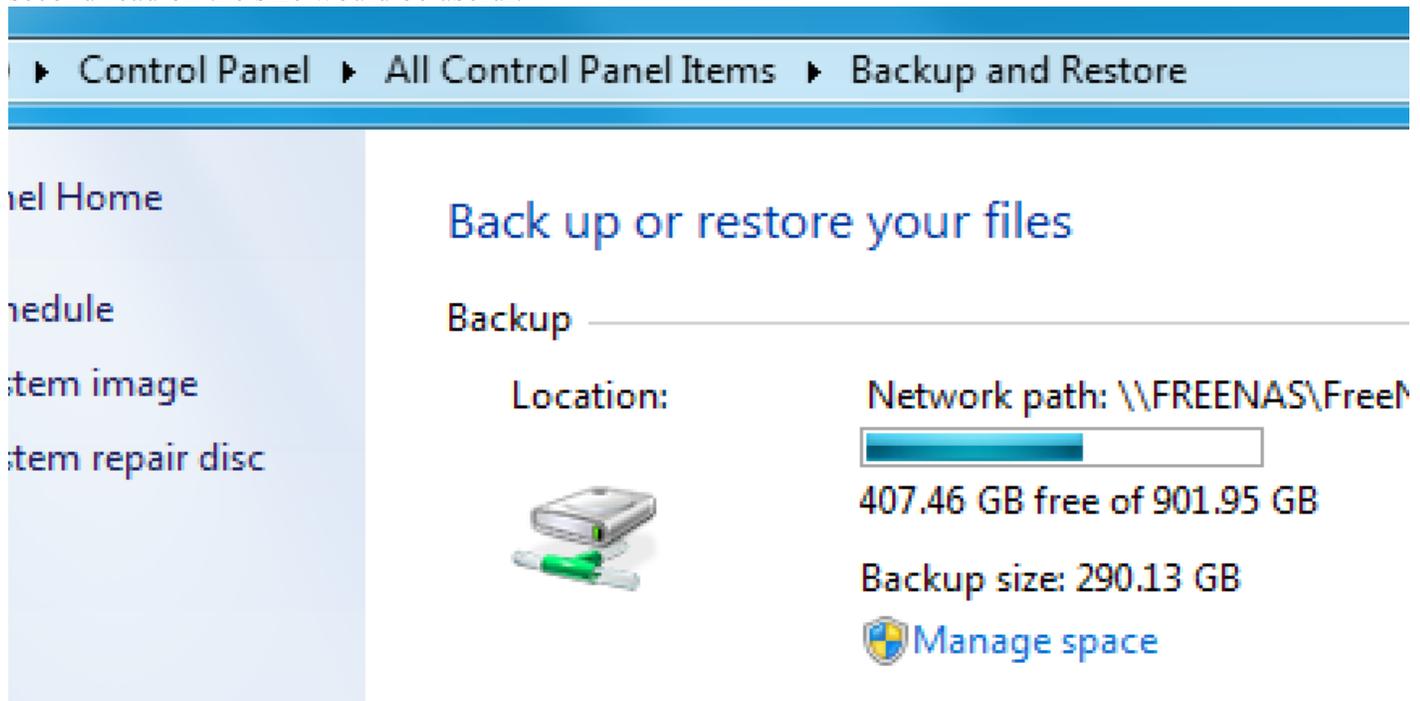
by [score](#) » Mon Jan 25, 2010 7:03 pm

Disc size?

Are you speaking of the last section of that last photo? where it says 992GB?

I have not looked yet but the i386 may be limiting the disk/mount size to about 1TB (I highly doubt that as it is just plain dumb).

Oh and are you using Windows 7? And do you have a back-up set? If not set to the server and windows will measure the disc space and usage. I do not think you will actually need to do the back up but you may. A second read on the size would be useful.



The screenshot shows the Windows 7 Backup and Restore control panel window. The breadcrumb path is "Control Panel > All Control Panel Items > Backup and Restore". The main heading is "Back up or restore your files". Under the "Backup" section, the "Location" is a hard drive icon, and the "Network path" is "\\FREENAS\FreeN". A progress bar shows the backup size is 290.13 GB out of a total of 901.95 GB, leaving 407.46 GB free. A "Manage space" link is visible at the bottom.

Location:	Network path: \\FREENAS\FreeN
	
	407.46 GB free of 901.95 GB
	Backup size: 290.13 GB
	 Manage space

Yes, it is ridiculous but I thought it might be useful.

FreeNAS v0.7 x64 Full Install

Build 0.7.4919

2.8Ghz; 2048 RAM

1TB SATA

[score](#)

Re: Mount point / Disc size problem Part 2

by [bluescreentt](#) » Mon Jan 25, 2010 7:20 pm

Hi!

yes i mean the disc / mountpoint size on the last image
it only says 992G but it would like it to say something like 1800G or 1900 G

i tried to do a SMB Share and Map it in windows
the size there is even worse
oh and the disc is empty ! windows claims that i have used 79 gig of space
that is just stupid

i have nothing setup, no backup's or anything on this server i want it to work with my hdd's first before i put
my data on it

[bluescreentt](#)

Re: Mount point / Disc size problem Part 2

by [daoyama](#) » Wed Jan 27, 2010 7:23 pm

Hi,

It's interesting. please more info. go to Advanced|Execute command and execute:

Code: [Select all](#)
`diskinfo -v ad2`

Regards,
Daisuke Aoyama
FreeNAS 0.7.5 9S-9896 (x64-embedded)
MB: ASRock E350M1/USB3, CPU: on-board, Mem: 16GB, LAN: Realtek RTL8111E (on-board)

FreeNAS 0.7.2 7S-8191 (amd64-embedded)
MB: ASUS M2A-VM (AMD 690G chipset), CPU: Athlon X2 5200+, Mem: 4GB, NIC: Intel PRO1000/PT
Server Adapter x 2

Re: Mount point / Disc size problem Part 2

by [bluescreentt](#) » Wed Jan 27, 2010 8:09 pm

Id rather do it via ssh
but here it is
and a df -h

```
freenas:~# df -h
Filesystem Size Used Avail Capacity Mounted on
/dev/ad2s1a 985M 90M 816M 10% /
```

```
devfs 1.0K 1.0K 0B 100% /dev
/dev/ad2s2 992G 4.0K 912G 0% /mnt/Music
```

```
freenas:~# diskinfo -v ad2
ad2
512 # sectorsize
2000398934016 # mediasize in bytes (1.8T)
3907029168 # mediasize in sectors
3876021 # Cylinders according to firmware.
16 # Heads according to firmware.
63 # Sectors according to firmware.
ad:JK1171YAGJE3PN # Disk ident.
```

```
freenas:~# diskinfo -v ad2s1
```

```
ad2s1
512 # sectorsize
1069254144 # mediasize in bytes (1.0G)
2088387 # mediasize in sectors
2071 # Cylinders according to firmware.
16 # Heads according to firmware.freenas:~# diskinfo -v ad2s2
```

```
ad2s2
512 # sectorsize
1099509820416 # mediasize in bytes (1.0T)
2147480118 # mediasize in sectorsfreenas:~# diskinfo -v ad2s3
```

```
ad2s3
512 # sectorsize
8589837312 # mediasize in bytes (8.0G)
16777026 # mediasize in sectors
16643 # Cylinders according to firmware.
16 # Heads according to firmware.
63 # Sectors according to firmware.
ad:JK1171YAGJE3PNs2 # Disk ident.
```

```
2130436 # Cylinders according to firmware.
16 # Heads according to firmware.
63 # Sectors according to firmware.
ad:JK1171YAGJE3PNs1 # Disk ident.
```

```
63 # Sectors according to firmware.
ad:JK1171YAGJE3PNs0 # Disk ident.
```

from what i can see here something has gone wrong in creating the ad2s2 "partition"

where is the rest of the space on the disc

oh ! and ehhh how do i file a bug report ?

EDIT by AI - [Find link in pink bar at the top of all forum pages.](#)

[bluescreentt](#)

Re: Mount point / Disc size problem Part 2

by [daoyama](#) » Wed Jan 27, 2010 9:10 pm

Hi,

OK, I understood this problem.
This is a bug of fdisk utility (FreeBSD's basic utility).
Perhaps, it appears only in the i386 version.

The partition table looks like:

Code: [Select all](#)

```
g c261083 h255 s63
p 1 165 1 2097152
p 2 165 2097154 4175429632
p 3 165 4177526787 16777216
p 4 0 0 0
a 1
```

but i386 version read as signed long(32bit)!
So, it's limited up to 2147483647. (1TB)

Did you try amd64 version?

Regards,

Daisuke Aoyama

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MB: ASUS M2A-VM (AMD 690G chipset), CPU: Athlon X2 5200+, Mem: 4GB, NIC: Intel PRO1000/PT Server Adapter x 2

Re: Mount point / Disc size problem Part 2

by [al562](#) » Wed Jan 27, 2010 9:53 pm

Hi Daoyama,

Then space above 2147483647 (1Tb) is there and still usable, but reported incorrectly. To see the correct information we must use `diskinfo -v adn`. So until FreeBSD fix this issue the largest size we will see is 992Gb.

Is that correct Daoyama??

Thanks,
Al

FreeNAS 0.7.2-5543 i386-full; 510MiB RAM; Asus P4P800-VM; P4 CPU 2.4GHz; Promise SATA300-TX4; 2.5Tb+ storage. Plus a bunch of others.

Test systems: 0.7.2-5247 amd64-full:Pentium E6300 on VMWare. Plus a bunch of other VM's..

Re: Mount point / Disc size problem Part 2

by [daoyama](#) » Wed Jan 27, 2010 11:45 pm

Hi,

*al562 wrote:*Is that correct Daoyama??

No. a bit different.

The layout is as following:

Code: [Select all](#)

```
| OS | data (upto 1TB) |
|XXX|
| swap | unusable |
|
^1TB limit
```

XXX means overwrap OS size both data and swap partition.

The unusable left space is impossible to handle under i386's fdisk now.

If you try to create a partition above 1TB, fdisk overwrite to the space!

This is not only incorrect reporting issue.

If FreeBSD fix, you have to resize the data slice (and move or recreate swap).

Sorry, I don't know how to resize the slice under FreeBSD.

The workaround until FreeBSD fix is using the disk smaller than 1TB as OS disk.
or using amd64.

I confirmed amd64 handles 2TB correctly.

Code: [Select all](#)

```
freenas:/mnt# diskinfo -v /dev/da10
/dev/da10
      512                # sectorsize
2147483648000          # mediasize in bytes (2.0T)
4194304000            # mediasize in sectors
```

```
261083      # Cylinders according to firmware.
255         # Heads according to firmware.
63          # Sectors according to firmware.
```

```
freenas:/mnt# fdisk /dev/da10
***** Working on device /dev/da10 *****
parameters extracted from in-core disklabel are:
cylinders=261083 heads=255 sectors/track=63 (16065 blks/cyl)
```

```
Figures below won't work with BIOS for partitions not in cyl 1
parameters to be used for BIOS calculations are:
cylinders=261083 heads=255 sectors/track=63 (16065 blks/cyl)
```

Media sector size is 512

Warning: BIOS sector numbering starts with sector 1

Information from DOS bootblock is:

The data for partition 1 is:

```
sysid 165 (0xa5),(FreeBSD/NetBSD/386BSD)
  start 63, size 2088387 (1019 Meg), flag 80 (active)
  beg: cyl 0/ head 1/ sector 1;
  end: cyl 129/ head 254/ sector 63
```

The data for partition 2 is:

```
sysid 165 (0xa5),(FreeBSD/NetBSD/386BSD)
  start 2097207, size 4175429328 (2038783 Meg), flag 0
  beg: cyl 130/ head 139/ sector 1;
  end: cyl 966/ head 254/ sector 63
```

The data for partition 3 is:

```
sysid 165 (0xa5),(FreeBSD/NetBSD/386BSD)
  start 4177526787, size 16771608 (8189 Meg), flag 0
  beg: cyl 967/ head 4/ sector 1;
  end: cyl 986/ head 254/ sector 63
```

The data for partition 4 is:

```
<UNUSED>
```

Is that enough?

Regards,
Daisuke Aoyama

Edit: layout clearly.

FreeNAS 0.7.5 9S-9896 (x64-embedded)

MB: ASRock E350M1/USB3, CPU: on-board, Mem: 16GB, LAN: Realtek RTL8111E (on-board)

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MB: ASUS M2A-VM (AMD 690G chipset), CPU: Athlon X2 5200+, Mem: 4GB, NIC: Intel PRO1000/PT Server Adapter x 2

[Re: Mount point / Disc size problem Part 2](#)

by [al562](#) » Thu Jan 28, 2010 3:14 am

*al562 wrote:*Is that enough?

For now, yes. I will write this up for the FAQs and also SUG limitations section. I will ask you and Dan to review copy before publication.

Thanks,
Al

FreeNAS 0.7.2-5543 i386-full; 510MiB RAM; Asus P4P800-VM; P4 CPU 2.4GHz; Promise SATA300-TX4; 2.5Tb+ storage. Plus a bunch of others.

Test systems: 0.7.2-5247 amd64-full:Pentium E6300 on VMWare. Plus a bunch of other VM's..

Re: Mount point / Disc size problem Part 2

by [bluescreentt](#) » Thu Jan 28, 2010 5:45 am

Hi !

i have not tryed the amd64 cus Slimnas dont run on amd64

But thanks for your help
Greetings
Thomas

[bluescreentt](#)

Re: Mount point / Disc size problem Part 2

by [bluescreentt](#) » Thu Jan 28, 2010 7:57 pm

Hi again

Tryed AMD64 just for fun !

and yes it works !

only problem now is that slimnas dont run on i386

well i just have to do a win server aarrgghh

Thanks for your help

will this "problem" be fixed in bsd 8 ?

[bluescreentt](#)

Re: Mount point / Disc size problem Part 2

by [danmero](#) » Thu Jan 28, 2010 9:46 pm

*bluescreentt wrote:*and yes it works !

only problem now is that slimnas dont run on i386

well i just have to do a win server aarrgghh

Now when you have the disk partitioned as you wish, boot from i386 LiveCD and put/decompress the system image on system partition

Your new questions should be posted on your new thread

No support via PM system - use the forums please.

Running the [latest nightly build](#) of 0.7.2 embedded(i386).

Regards,

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Backup is something you don't need until is too late.

Re: Mount point / Disc size problem Part 2

by [daoyama](#) » Tue Mar 02, 2010 9:55 pm

Fixed version of fdisk is added at 5053.

Please check after this version.

Regards,

Daisuke Aoyama

FreeNAS 0.7.5 9S-9896 (x64-embedded)

MB: ASRock E350M1/USB3, CPU: on-board, Mem: 16GB, LAN: Realtek RTL8111E (on-board)

FreeNAS 0.7.2 7S-8191 (amd64-embedded)

MB: ASUS M2A-VM (AMD 690G chipset), CPU: Athlon X2 5200+, Mem: 4GB, NIC: Intel PRO1000/PT Server Adapter x 2