

Re: Hard Disk Failure

Source:

<http://www.tech-archive.net/Archive/WinXP/microsoft.public.windowsxp.hardware/2007-02/msg01151.html>

- *From:* "DannyBoy" <dandeasy@xxxxxxxxxxxxxxxx>
 - *Date:* 25 Feb 2007 10:12:08 -0800
-

On 25 Feb, 17:58, "DannyBoy" <dande...@xxxxxxxxxxxxxxxx> wrote:

On 25 Feb, 17:13, "Bill Blanton" <bblan...@xxxxxxxxxxxxxxxx> wrote:

"DannyBoy" <dande...@xxxxxxxxxxxxxxxx> wrote in
message:news:1172410812.922111.9420@xx

Hi there

I have a machine with XP Home on it and I use it alot. The problem is that my hard disk seems to have become unreadable and therefore I cant get it to boot. I dont want to format the drive at this point as there is so much stuff on the hard disk that I want to try to keep. The hard disk is partitioned into 2 drives. C: is NTFS and it has XP home and all my apps and data etc... D: is FAT32 and has a recovery partiton on it that enough data to restore to factory defaults. I found an old hard disk and installed XP pro on it and then installed partition magic on to it. I was hoping that it would automatically fix the HD geometry problem but sadly it did not. I ran the Partition Info tool on the drives and this is the result. I am woundering if anyone can help me to fix the hard disk but without having to loose

Re: Hard Disk Failure

all the
data on the disk.

Don't know if this will help or not, but the partinfo shows the CHS geometry to add up to slightly less than 32GB. But the drive itself is 160GB, correct?

Does the BIOS see the full capacity? Is the BIOS compatible with drives over 32GB?

Was there a drive manager installed?

A shorted out 32GB limitation jumper on the drive perhaps?

The boot sector looks sane, and the partition tables look ok except for the fact that the partition appears to extend past the end of the disk. The apparent problem. You might have better luck slaving it to another system. As others have noted, don't do anything that writes to the drive.

PowerQuest PartitionInfo 8.0 -- Windows NT/2000 Version
Date Generated: 02/25/07 13:23:59
Copyright (c)1994-2002, PowerQuest Corporation
Permission is granted for this utility to be freely copied so
long
as it is not modified in any way. All other rights are reserved.

PowerQuest, makers of PartitionMagic(r), Drive Image(tm),
and
DriveCopy(tm), can be reached at:
Voice: 801-437-8900
Fax: 801-226-8941
Web site: <http://www.powerquest.com/support/>
E-mail: m...@xxxxxxxxxxxxxxxx

General System Information:
Total Physical Memory (bytes): 1,005,043,712
Used Physical Memory: (bytes): 179,548,160
Maximum Page File Size: (bytes): 2,426,105,856
Current Page File Size: (bytes): 99,770,368

Re: Hard Disk Failure

```
=====
Disk Geometry Information for Disk 1: 2434 Cylinders, 255
Heads,
63 Sectors/Track
System PartSect # Boot BCyl Head Sect FS ECyl Head
Sect StartSect NumSects
=====
```

```
0 0 80 0 1 1 07 1023 254
63 63 39,102,147
Info: End C,H,S values were large drive placeholders.
Actual values are:
0 0 80 0 1 1 07 2433 254 63 63
39102147
```

```
=====
Disk Geometry Information for Disk 2: 4368 Cylinders, 240
Heads,
63 Sectors/Track
System PartSect # Boot BCyl Head Sect FS ECyl Head
Sect StartSect NumSects
=====
```

```
PRESARIO_RP 0 0 00 0 1 1 0C 831 239
63 63 12,579,777
Info: Begin C,H,S values were large drive placeholders.
Info: End C,H,S values were large drive placeholders.
Actual values are:
0 0 00 0 1 1 0C 831 239 63 63
12579777
0 1 80 832 0 1 07 1023 239
63 12,579,840 299,980,800
Info: End C,H,S values were large drive placeholders.
Actual values are:
0 1 80 832 0 1 07 20671 239 63 12579840
299980800
Error #109: Partition ends after end of disk.
ucEndCylinder (20671) must be less than 4368.
```

```
=====
Partition Information for Disk 1: 19,092.9 Megabytes
Volume PartType Status Size MB PartSect #
StartSect TotalSects
=====
```

```
C: NTFS Pri,Boot 19,092.8 0 0
63 39,102,147
```

Re: Hard Disk Failure

=====
Partition Information for Disk 2: 32,248.1 Megabytes

Volume PartType Status Size MB PartSect #
StartSect TotalSects

=====
*:PRESARIO_RP FAT32X Pri 6,142.5 0 0
63 12,579,777
NTFS Pri,Boot 146,475.0 0 1
12,579,840 299,980,800

=====
Boot Record for drive C: (Drive: 1, Starting sector: 63, Type:
NTFS)

=====
1. Jump: EB 52 90
2. OEM Name: NTFS
3. Bytes per Sector: 512
4. Sectors per Cluster: 8
5. Reserved Sectors: 0
6. Number of FATs: 0
7. Root Dir Entries: 0
8. Total Sectors: 0
9. Media Descriptor: 0xF8
10. Sectors per FAT: 0
11. Sectors per Track: 63 (0x3F)
12. Number of Heads: 255 (0xFF)
13. Hidden Sectors: 63 (0x3F)
14. Total Sectors (>32MB): 0 (0x0)
15. Unused: 0x80008000
16. Total NTFS Sectors: 39102146
17. MFT Start Cluster: 786432
18. MFT Mirror Start Clust: 2443884
19. Clusters per FRS: 246
20. Clusters per Index Blk: 1
21. Serial Number: 0x9678DE3E78DE1CB5
22. Checksum: 0 (0x0)
23. Boot Signature: 0xAA55

=====
Boot Record for drive *: (Drive: 2, Starting sector: 63, Type:
FAT32)

=====
1. Jump: E9 A7 00
2. OEM Name: MSWIN4.1
3. Bytes per Sector: 512

Re: Hard Disk Failure

4. Sectors per Cluster: 8
5. Reserved Sectors: 32
6. Number of FAT's: 2
7. Reserved: 0x0000
8. Reserved: 0x0000
9. Media Descriptor: 0xF8
10. Sectors per FAT: 0
11. Sectors per Track: 63 (0x3F)
12. Number of Heads: 240 (0xF0)
13. Hidden Sectors: 63 (0x3F)
14. Big Total Sectors: 12579777 (0xBFF3C1)
15. Big Sectors per FAT: 12288
16. Extended Flags: 0x0000
17. FS Version: 0
18. First Cluster of Root: 2 (0x2)
19. FS Info Sector: 1
20. Backup Boot Sector: 6
21. Reserved: 000000000000000000000000
22. Drive ID: 0x80
23. Reserved for NT: 0x00
24. Extended Boot Sig: 0x29
25. Serial Number: 0x42CD48DD
26. Volume Name: PRESARIO_RP
27. File System Type: FAT32
28. Boot Signature: 0xAA55

=====
Boot Record for drive *: (Drive: 2, Starting sector:
12,579,840,
Type: NTFS)
=====

1. Jump: EB 52 90
2. OEM Name: NTFS
3. Bytes per Sector: 512
4. Sectors per Cluster: 8
5. Reserved Sectors: 0
6. Number of FATs: 0
7. Root Dir Entries: 0
8. Total Sectors: 0
9. Media Descriptor: 0xF8
10. Sectors per FAT: 0
11. Sectors per Track: 63 (0x3F)
12. Number of Heads: 240 (0xF0)
13. Hidden Sectors: 12579840 (0xBFF400)
14. Total Sectors (>32MB): 0 (0x0)
15. Unused: 0x80008000
16. Total NTFS Sectors: 299980799
17. MFT Start Cluster: 786432
18. MFT Mirror Start Clust: 18748799

Re: Hard Disk Failure

19. Clusters per FRS: 246
20. Clusters per Index Blk: 1
21. Serial Number: 0x54AC025BAC0237CE
22. Checksum: 0 (0x0)
23. Boot Signature: 0xAA55– Hide quoted text –

– Show quoted text -- Hide quoted text –

– Show quoted text –

ok will check the cmos and will check the bios!!!
Thanks once again for your help
Regards
Dan– Hide quoted text –

– Show quoted text –

Hi I have checked the drive (physically for the 32 GB jumper and it is not set to that.. Only jumper is now set to slave where originally it was set to cable select.)

When I go into setup it reports the disk to be 33822MB but the actual disk size is 160 GB. Also using Computer Management the disk shows 31.50 GB Healthy put no file system i.e. it does not display NTFS / FAT32 / FAT

Is there some way of getting the disk file table to correct it self etc...

Please any heelp would be very gratefully excepted
Thanks once again to all
Regards
DannyBoy

.