

# Re: Problem with master boot record

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*Source:*

[http://www.tech-archive.net/Archive/WinXP/microsoft.public.windowsxp.setup\\_deployment/2006-01/msg00255.htm](http://www.tech-archive.net/Archive/WinXP/microsoft.public.windowsxp.setup_deployment/2006-01/msg00255.htm)

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- *From:* "Phil Jollans" <nospam@xxxxxxxxxxxx>
  - *Date:* Tue, 10 Jan 2006 22:25:54 +0100
- 

Hi Tim,

I used a utility that I found on the Partition Magic floppys which I think was called partinfo or ptinfo. I piped the output to a file which I then examined on another computer.

This log file showed the number of heads was 255 for the disk. It also showed the number in the boot sector on the partition was 240.

In addition, there is a second hard drive in the computer, with ubuntu linux, where the corresponding entries (also 255) matched.

There was another tool, I think ptedit, with which I could edit the boot sector.

I got lucky!

I have appended the complete log file.

Phil

Partition Information Program  
Aug 09 2001 – DOS32 Version  
Copyright (c) 1994–2001, PowerQuest Corporation  
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PowerQuest, makers of PartitionMagic(r), Drive Image(tm) and DriveCopy(tm),  
can be reached at

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Voice: 801-226-6834 Web site: <http://support.powerquest.com>  
Fax: 801-226-8941 Email: help@xxxxxxxxxxxxxxxx  
BiosExtensions: 0x2100 Subsets (0x00000005): Access EDD  
EGeo 0x0000 16383 16 63 156250000 0 512

=====  
Disk 0: 9726 Cylinders, 255 Heads, 63 Sectors/Track.

BiosExtensions: 0x2100 Subsets (0x00000005): Access EDD  
The BIOS supports INT 13h extensions for this drive.

=====  
Partition Tables =====

Partition -----Begin-----End----- Start Num

Sector # Boot Cyl Head Sect FS Cyl Head Sect Sect Sectors

-----  
0 3 80 0 1 1 07 [1023 254 63] 63 156232062  
[Large Drive Placeholders]

0 1 1 9724 254 63  
Actual Values

BiosExtensions: 0x2100 Subsets (0x00000005): Access EDD  
EGeo 0x0000 16383 16 63 33683328 0 512

=====  
Disk 1: 2096 Cylinders, 255 Heads, 63 Sectors/Track.

BiosExtensions: 0x2100 Subsets (0x00000005): Access EDD  
The BIOS supports INT 13h extensions for this drive.

=====  
Partition Tables =====

Partition -----Begin-----End----- Start Num

Sector # Boot Cyl Head Sect FS Cyl Head Sect Sect Sectors

-----  
0 0 80 [ 0 1 1] 0C [1023 254 63] 63 16819992  
[Large Drive Placeholders]

0 1 1 1046 254 63  
Actual Values

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0 1 00 [1023 0 1] 05 [1023 254 63] 16820055 16852185  
[Large Drive Placeholders]

1047 0 1 2095 254 63  
Actual Values

16820055 0 00 [1023 254 63] 83 [1023 254 63] 16820118 14747607  
[Large Drive Placeholders]

1047 1 1 1964 254 63  
Actual Values

16820055 1 00 [1023 0 1] 05 [1023 254 63] 31567725 2104515  
[Large Drive Placeholders]

1965 0 1 2095 254 63  
Actual Values

31567725 0 00 [1023 254 63] 82 [1023 254 63] 31567788 2104452  
[Large Drive Placeholders]

1965 1 1 2095 254 63  
Actual Values

=====

Disk 0: 76293.1 Megabytes

===== Partition Information  
=====

Volume Partition Partition Start  
Total

Letter:Label Type Status Size MB Sector # Sector  
Sectors

-----

NTFS Pri,Boot 76285.2 0 3 63  
156232062

Unallocated Pri 7.8 None – 156232125  
16065

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=====  
Disk 1: 16441.5 Megabytes

=====  
Partition Information  
=====

Volume Partition Partition Start  
Total

Letter:Label Type Status Size MB Sector # Sector  
Sectors

-----  
EMILYS\_C FAT32X Pri,Boot 8212.9 0 0 63  
16819992

Extended Pri 8228.6 0 1 16820055  
16852185

EPBR Log 7201.0 None - 16820055  
14747670

Linux Ext2 Log 7200.10 16820055 0 16820118  
14747607

EPBR Log 1027.6 16820055 1 31567725  
2104515

SWAPSPACE2 Linux Swap Log 1027.6 31567725 0 31567788  
2104452

=====  
Boot Sector for drive \*: Drive 1, Starting Sector: 63, Type: NTFS  
=====

1. Jump: EB 52 90

2. OEM Name: NTFS

3. Bytes Per Sector: 512

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- 4. Sectors Per Cluster: 8
- 5. Reserved Sectors: 0
- 6. Number of FAT's: 0
- 7. Root Dir Entries: 0
- 8. Total Sectors: 0 (0x0)
- 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: 0 (0x0)
- 15. Unused: 0x80 00 80 00
- 16. Total NTFS Sectors: 156219776 (0x94FB980)
- 17. MFT Start Cluster: 786432 (0xC0000)
- 18. MFT Mirror Start Clust: 9763736 (0x94FB98)
- 19. Clusters per FRS: 246
- 20. Clusters per Index Blk: 1
- 21. Serial Number: 0xC8F4570AF456FA60
- 22. Checksum: 0x00000000
- 23. Boot Signature: 0xAA55

=====  
Boot Sector for drive \*: Drive 2, Starting Sector: 63, Type: FAT32  
=====

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1. Jump: EB 58 90
2. OEM Name: MSWIN4.1
3. Bytes Per Sector: 512
4. Sectors Per Cluster: 16
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: 255 (0xFF)
13. Hidden Sectors: 63 (0x3F)
14. Big Total Sectors: 16819992 (0x100A718)
15. Big Sectors Per FAT: 8209
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: 0x00 00 00 00 00 00 00 00 00 00 00 00
22. Drive ID: 0x80
23. Reserved for NT: 0x00
24. Extended Boot Sig: 0x29
25. Serial Number: 0x1B7514D8
26. Volume Name: EMILYS\_C

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27. File System Type: FAT32

28. Boot Signature: 0xAA55

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• **Follow-Ups:**

- ◆ **[Re: Problem with master boot record](#)**  
◇ From: Timothy Daniels

• **References:**

- ◆ **[Problem with master boot record](#)**  
◇ From: Phil Jollans
- ◆ **[Re: Problem with master boot record](#)**  
◇ From: Pegasus \(\MVP\)
- ◆ **[Re: Problem with master boot record](#)**  
◇ From: Phil Jollans
- ◆ **[Re: Problem with master boot record](#)**  
◇ From: Timothy Daniels

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