

## testdisk\_5

Mon Aug 1 20:02:13 2011  
Command line: TestDisk

TestDisk 6.13-WIP, Data Recovery Utility, May 2011  
Christophe GRENIER <grenier@cgsecurity.org>  
<http://www.cgsecurity.org>  
OS: Windows 7 (7601) SP1  
Compiler: GCC 4.3, Cygwin 1007.7  
Compilation date: 2011-07-31T10:35:06  
ext2fs lib: 1.41.8, ntfs lib: 10:0:0, reiserfs lib: 0.3.1-rc8, ewf lib: 20100226  
disk\_get\_size\_win32 IOCTL\_DISK\_GET\_LENGTH\_INFO(/dev/sda)=64023257088  
disk\_get\_size\_win32 IOCTL\_DISK\_GET\_LENGTH\_INFO(/dev/sdb)=3999999983616  
disk\_get\_size\_win32 IOCTL\_DISK\_GET\_LENGTH\_INFO(/dev/sdc)=320072933376  
disk\_get\_size\_win32 IOCTL\_DISK\_GET\_LENGTH\_INFO(\\.\PhysicalDrive0)=64023257088  
disk\_get\_size\_win32 IOCTL\_DISK\_GET\_LENGTH\_INFO(\\.\PhysicalDrive1)=3999999983616  
disk\_get\_size\_win32 IOCTL\_DISK\_GET\_LENGTH\_INFO(\\.\PhysicalDrive2)=320072933376  
disk\_get\_size\_win32 IOCTL\_DISK\_GET\_LENGTH\_INFO(\\.\C:) =63915950080  
disk\_get\_size\_win32 IOCTL\_DISK\_GET\_LENGTH\_INFO(\\.\D:) =3999994478592  
disk\_get\_size\_win32 IOCTL\_DISK\_GET\_LENGTH\_INFO(\\.\E:) =3196780544  
disk\_get\_size\_win32 IOCTL\_DISK\_GET\_LENGTH\_INFO(\\.\F:) =320070288384  
file\_pread(4,1,buffer,125057519(8270/239/63)) lseek err Invalid argument  
file\_pread(5,1,buffer,3906252944(243152/254/63)) lseek err Invalid argument  
file\_pread(6,1,buffer,625153409(38913/254/63)) lseek err Invalid argument  
Hard disk list  
Disk /dev/sda - 64 GB / 59 GiB - CHS 8270 240 63, sector size=512 - ADATA SSD  
S511 60GB, S/N: 32323030303236333030303030303035303538, FW: 319ABBF0  
Disk /dev/sdb - 3999 GB / 3725 GiB - CHS 243152 255 63, sector size=1024 - AMD  
2X2 Mirror/RAID1, S/N: 82e00f4e9eb8000100000000000000000000000000000000, FW: 1.10  
Disk /dev/sdc - 320 GB / 298 GiB - CHS 38913 255 63, sector size=512 - WD  
3200BMV External, S/N: WD-WXE309U68501, FW: 1.75  
Disk \\.\PhysicalDrive1 - 3999 GB / 3725 GiB - CHS 243152 255 63, sector  
size=1024 - AMD 2X2 Mirror/RAID1,  
S/N: 82e00f4e9eb8000100000000000000000000000000000000, FW: 1.10  
Drive D: - 3999 GB / 3725 GiB - CHS 243152 255 63, sector size=1024 - AMD 2X2  
Mirror/RAID1, S/N: 82e00f4e9eb8000100000000000000000000000000000000, FW: 1.10  
Drive E: - 3196 MB / 3048 MiB - CHS 762 64 32, sector size=2048 - HL-DT-ST  
DVD-RAM GH22NS50, S/N:, FW: TN03

Partition table type (auto): EFI GPT  
Disk /dev/sdb - 3999 GB / 3725 GiB - AMD 2X2 Mirror/RAID1  
Partition table type: EFI GPT  
file\_pread(5,1,buffer,3906252944(243152/254/63)) lseek err Invalid argument

Analyse Disk /dev/sdb - 3999 GB / 3725 GiB - CHS 243152 255 63

hdr\_size=92  
hdr\_lba\_sel=1  
hdr\_lba\_alt=3906249983 (expected 3906249983)  
hdr\_lba\_start=18  
hdr\_lba\_end=3906249966  
hdr\_lba\_table=2  
hdr\_entries=128  
hdr\_entsz=128

check\_part\_gpt failed for partition

1 P MS Reserved	18	131089	131072 [Microsoft reserved partition]
-----------------	----	--------	---------------------------------------

Current partition structure:

No FAT, NTFS, ext2, JFS, Reiser, cramfs or XFS marker

1 P MS Reserved	18	131089	131072 [Microsoft reserved partition]
-----------------	----	--------	---------------------------------------

1 P MS Reserved	18	131089	131072 [Microsoft reserved partition]
-----------------	----	--------	---------------------------------------

2 P MS Data	132096	3906249727	3906117632 [Basic data partition] [Data]
-------------	--------	------------	--

search\_part()

Disk /dev/sdb - 3999 GB / 3725 GiB - CHS 243152 255 63

# testdisk\_5

NTFS at 0/32/33

Warning: Incorrect number of bytes per sector 512 (NTFS) != 1024 (HD)

filesystem size 3906244608

sectors\_per\_cluster 8

mft\_lcn 786432

mftmirr\_lcn 2

clusters\_per\_mft\_record -10

clusters\_per\_index\_record 1

MS Data 2048 1953124351 1953122304

NTFS, 1999 GB / 1862 GiB

HFS magic value at 121944/190/26

part\_size 827564958

Mac HFS 1959042355 2786607312 827564958

[μ. . ?\_pÿk+•-! ù?éα/¿k<ÜÿK]

HFS, 847 GB / 789 GiB

LVM magic value at 195112/227/30

LVM magic value at 195112/228/31

LVM magic value at 195957/123/49

LVM magic value at 195957/124/50

LVM magic value at 196342/151/7

LVM magic value at 196342/152/8

HFS magic value at 208958/56/24

part\_size 34419973

Mac HFS 3356913821 3391333793 34419973

[\òü®×μSÁl ā' μ'îôî ðm¿yúoó-cÑ]

HFS, 35 GB / 32 GiB

HFS magic value at 219725/247/55

part\_size 304089362

Mac HFS 3529897740 3833987101 304089362 ["†J†\*†4†44-R †

¿yúoó-cÑ]

HFS, 311 GB / 290 GiB

file\_pread(5,1,buffer,3906249985(243152/208/2)) lseek err Invalid argument

file\_pread(5,1,buffer,3906249986(243152/208/3)) lseek err Invalid argument

file\_pread(5,1,buffer,3906249987(243152/208/4)) lseek err Invalid argument

file\_pread(5,1,buffer,3906249988(243152/208/5)) lseek err Invalid argument

file\_pread(5,1,buffer,3906249989(243152/208/6)) lseek err Invalid argument

file\_pread(5,1,buffer,3906249990(243152/208/7)) lseek err Invalid argument

file\_pread(5,1,buffer,3906249991(243152/208/8)) lseek err Invalid argument

file\_pread(5,1,buffer,3906249992(243152/208/9)) lseek err Invalid argument

file\_pread(5,1,buffer,3906249993(243152/208/10)) lseek err Invalid argument

file\_pread(5,1,buffer,3906249994(243152/208/11)) lseek err Invalid argument

file\_pread(5,1,buffer,3906249995(243152/208/12)) lseek err Invalid argument

file\_pread(5,1,buffer,3906249996(243152/208/13)) lseek err Invalid argument

file\_pread(5,1,buffer,3906249997(243152/208/14)) lseek err Invalid argument

file\_pread(5,1,buffer,3906249998(243152/208/15)) lseek err Invalid argument

file\_pread(5,1,buffer,3906249999(243152/208/16)) lseek err Invalid argument

file\_pread(5,1,buffer,3906250000(243152/208/17)) lseek err Invalid argument

file\_pread(5,1,buffer,3906250001(243152/208/18)) lseek err Invalid argument

file\_pread(5,1,buffer,3906250002(243152/208/19)) lseek err Invalid argument

file\_pread(5,1,buffer,3906250003(243152/208/20)) lseek err Invalid argument

file\_pread(5,1,buffer,3906250004(243152/208/21)) lseek err Invalid argument

file\_pread(5,1,buffer,3906250005(243152/208/22)) lseek err Invalid argument

file\_pread(5,1,buffer,3906250006(243152/208/23)) lseek err Invalid argument

file\_pread(5,1,buffer,3906250007(243152/208/24)) lseek err Invalid argument

file\_pread(5,1,buffer,3906250008(243152/208/25)) lseek err Invalid argument

file\_pread(5,1,buffer,3906250009(243152/208/26)) lseek err Invalid argument

file\_pread(5,1,buffer,3906250010(243152/208/27)) lseek err Invalid argument

file\_pread(5,1,buffer,3906250011(243152/208/28)) lseek err Invalid argument

file\_pread(5,1,buffer,3906250012(243152/208/29)) lseek err Invalid argument

## testdi sk\_5

[illegible]

## testdi sk\_5

[illegible]

## testdi sk\_5

[illegible]

## testdi sk\_5

[illegible]

## testdi sk\_5

[illegible]

## testdi sk\_5

[illegible]



## testdi sk\_5

[illegible]

## testdi sk\_5

[illegible]

## testdi sk\_5

[illegible]

## testdi sk\_5

[illegible]

# testdisk\_5

```

file_pread(5, 1, buffer, 3906250693(243152/219/17)) Iseek err Invalid argument
file_pread(5, 1, buffer, 3906250694(243152/219/18)) Iseek err Invalid argument
file_pread(5, 1, buffer, 3906250695(243152/219/19)) Iseek err Invalid argument
file_pread(5, 1, buffer, 3906250696(243152/219/20)) Iseek err Invalid argument
file_pread(5, 1, buffer, 3906250697(243152/219/21)) Iseek err Invalid argument
file_pread(5, 1, buffer, 3906250698(243152/219/22)) Iseek err Invalid argument
file_pread(5, 1, buffer, 3906250699(243152/219/23)) Iseek err Invalid argument
file_pread(5, 1, buffer, 3906250700(243152/219/24)) Iseek err Invalid argument
file_pread(5, 1, buffer, 3906250701(243152/219/25)) Iseek err Invalid argument
file_pread(5, 1, buffer, 3906250702(243152/219/26)) Iseek err Invalid argument
file_pread(5, 1, buffer, 3906250703(243152/219/27)) Iseek err Invalid argument
file_pread(5, 1, buffer, 3906250704(243152/219/28)) Iseek err Invalid argument
file_pread(5, 1, buffer, 3906250705(243152/219/29)) Iseek err Invalid argument
file_pread(5, 1, buffer, 3906250706(243152/219/30)) Iseek err Invalid argument
file_pread(5, 1, buffer, 3906250707(243152/219/31)) Iseek err Invalid argument
file_pread(5, 1, buffer, 3906250708(243152/219/32)) Iseek err Invalid argument
file_pread(5, 1, buffer, 3906250709(243152/219/33)) Iseek err Invalid argument
file_pread(5, 1, buffer, 3906250710(243152/219/34)) Iseek err Invalid argument
file_pread(5, 1, buffer, 3906250711(243152/219/35)) Iseek err Invalid argument
file_pread(5, 1, buffer, 3906250712(243152/219/36)) Iseek err Invalid argument
file_pread(5, 1, buffer, 3906250713(243152/219/37)) Iseek err Invalid argument
file_pread(5, 1, buffer, 3906250714(243152/219/38)) Iseek err Invalid argument
file_pread(5, 1, buffer, 3906250715(243152/219/39)) Iseek err Invalid argument
file_pread(5, 1, buffer, 3906250716(243152/219/40)) Iseek err Invalid argument
file_pread(5, 1, buffer, 3906250717(243152/219/41)) Iseek err Invalid argument
file_pread(5, 1, buffer, 3906250718(243152/219/42)) Iseek err Invalid argument
file_pread(5, 1, buffer, 3906250719(243152/219/43)) Iseek err Invalid argument
file_pread(5, 1, buffer, 3906250720(243152/219/44)) Iseek err Invalid argument
file_pread(5, 1, buffer, 3906250721(243152/219/45)) Iseek err Invalid argument
file_pread(5, 1, buffer, 3906250722(243152/219/46)) Iseek err Invalid argument
file_pread(5, 1, buffer, 3906250723(243152/219/47)) Iseek err Invalid argument
file_pread(5, 1, buffer, 3906250724(243152/219/48)) Iseek err Invalid argument
file_pread(5, 1, buffer, 3906250725(243152/219/49)) Iseek err Invalid argument
file_pread(5, 1, buffer, 3906250726(243152/219/50)) Iseek err Invalid argument
file_pread(5, 1, buffer, 3906250727(243152/219/51)) Iseek err Invalid argument
file_pread(5, 1, buffer, 3906250728(243152/219/52)) Iseek err Invalid argument
file_pread(5, 1, buffer, 3906250729(243152/219/53)) Iseek err Invalid argument
file_pread(5, 1, buffer, 3906250730(243152/219/54)) Iseek err Invalid argument
file_pread(5, 1, buffer, 3906250731(243152/219/55)) Iseek err Invalid argument
file_pread(5, 1, buffer, 3906250732(243152/219/56)) Iseek err Invalid argument
file_pread(5, 1, buffer, 3906250733(243152/219/57)) Iseek err Invalid argument
file_pread(5, 1, buffer, 3906250734(243152/219/58)) Iseek err Invalid argument
file_pread(5, 1, buffer, 3906250735(243152/219/59)) Iseek err Invalid argument
file_pread(5, 1, buffer, 3906250736(243152/219/60)) Iseek err Invalid argument
file_pread(5, 1, buffer, 3906250737(243152/219/61)) Iseek err Invalid argument
file_pread(5, 1, buffer, 3906250738(243152/219/62)) Iseek err Invalid argument
file_pread(5, 1, buffer, 3906250739(243152/219/63)) Iseek err Invalid argument
file_pread(5, 1, buffer, 3906250740(243152/220/1)) Iseek err Invalid argument
file_pread(5, 1, buffer, 3906250741(243152/220/2)) Iseek err Invalid argument
file_pread(5, 1, buffer, 3906250742(243152/220/3)) Iseek err Invalid argument
file_pread(5, 1, buffer, 3906250743(243152/220/4)) Iseek err Invalid argument
file_pread(5, 1, buffer, 3906250744(243152/220/5)) Iseek err Invalid argument
file_pread(5, 1, buffer, 3906250745(243152/220/6)) Iseek err Invalid argument
file_pread(5, 1, buffer, 3906250746(243152/220/7)) Iseek err Invalid argument
file_pread(5, 1, buffer, 3906250747(243152/220/8)) Iseek err Invalid argument
file_pread(5, 1, buffer, 3906250748(243152/220/9)) Iseek err Invalid argument
file_pread(5, 1, buffer, 3906250749(243152/220/10)) Iseek err Invalid argument
file_pread(5, 1, buffer, 3906250750(243152/220/11)) Iseek err Invalid argument
NTFS at 243152/203/59
filesystem size 3906117632
sectors_per_cluster 4
mft_lcn 786432
mftmirr_lcn 2
clusters_per_mft_record -10
clusters_per_index_record 1
file_pread(5, 4096, buffer, 3909395455(243348/156/8)) Iseek err Invalid argument
NTFS: Can't read MFT
MS Data 3906249727 7812367358 3906117632

```

## testdi sk\_5

NTFS, 3999 GB / 3725 Gi B

This partition ends after the disk limits. (start=3906249727, size=3906117632, end=3517400062, disk end=3906249984)

[illegible]

testdi sk\_5

```

file_pread(5, 1, buffer, 3906250816(243152/221/14)) | seek err | Invalid argument
file_pread(5, 1, buffer, 3906250817(243152/221/15)) | seek err | Invalid argument
file_pread(5, 1, buffer, 3906250818(243152/221/16)) | seek err | Invalid argument
file_pread(5, 1, buffer, 3906250819(243152/221/17)) | seek err | Invalid argument
file_pread(5, 1, buffer, 3906250820(243152/221/18)) | seek err | Invalid argument
file_pread(5, 1, buffer, 3906250821(243152/221/19)) | seek err | Invalid argument
file_pread(5, 1, buffer, 3906250822(243152/221/20)) | seek err | Invalid argument
file_pread(5, 1, buffer, 3906250823(243152/221/21)) | seek err | Invalid argument
file_pread(5, 1, buffer, 3906250824(243152/221/22)) | seek err | Invalid argument
file_pread(5, 1, buffer, 3906250825(243152/221/23)) | seek err | Invalid argument
file_pread(5, 1, buffer, 3906250826(243152/221/24)) | seek err | Invalid argument
file_pread(5, 1, bu$MFT has invalid magic.

```

```
ntfs_mft_load(): Failed.  
Failed to load $MFT: Input/Output error.  
Failed to startup volume: Input/Output error.  
$MFT has invalid magic.  
ntfs_mft_load(): Failed.
```

Failed to load \$MFT: Input/Output error.

[illegible]



## testdi sk\_5

[illegible]



## testdi sk\_5

[illegible]

## testdi sk\_5

[illegible]

## testdi sk\_5

[illegible]

```

testdisk_5
file_pread(5, 2, buffer, 3906249990(243152/208/7)) Iseek err Invalid argument
file_pread(5, 1, buffer, 3906250014(243152/208/31)) Iseek err Invalid argument
file_pread(5, 5, buffer, 3906250021(243152/208/38)) Iseek err Invalid argument
file_pread(5, 6, buffer, 3906250045(243152/208/62)) Iseek err Invalid argument
file_pread(5, 1, buffer, 3906251006(243152/224/15)) Iseek err Invalid argument
file_pread(5, 2, buffer, 3906249991(243152/208/8)) Iseek err Invalid argument
file_pread(5, 1, buffer, 3906250015(243152/208/32)) Iseek err Invalid argument
file_pread(5, 2, buffer, 3906250025(243152/208/42)) Iseek err Invalid argument
file_pread(5, 2, buffer, 3906250050(243152/209/4)) Iseek err Invalid argument
file_pread(5, 1, buffer, 3906251007(243152/224/16)) Iseek err Invalid argument
file_pread(5, 2, buffer, 3906249990(243152/208/7)) Iseek err Invalid argument
file_pread(5, 2, buffer, 3906249992(243152/208/9)) Iseek err Invalid argument
file_pread(5, 1, buffer, 3906250016(243152/208/33)) Iseek err Invalid argument
file_pread(5, 2, buffer, 3906250026(243152/208/43)) Iseek err Invalid argument
file_pread(5, 2, buffer, 3906250051(243152/209/5)) Iseek err Invalid argument
file_pread(5, 1, buffer, 3906251008(243152/224/17)) Iseek err Invalid argument
Disk /dev/sdb - 3999 GB / 3725 GiB - CHS 243152 255 63
Check the harddisk size: HD jumpers settings, BIOS detection...
The harddisk (3999 GB / 3725 GiB) seems too small! (< 7999 GB / 7450 GiB)
The following partition can't be recovered:
    MS Data                3906249727 7812367358 3906117632
    NTFS, 3999 GB / 3725 GiB

```

```

Results
P MS Data                2048 1953124351 1953122304
NTFS, 1999 GB / 1862 GiB
P Mac HFS                1959042355 2786607312 827564958
[µ. . . ?_pÿk+•-! ù?éα/¿ k<ÜÿK]
HFS, 847 GB / 789 GiB
P Mac HFS                3356913821 3391333793 34419973
[\\öü@xµSÄI ä' µ´10î ðm¿yúoó-cÑ]
HFS, 35 GB / 32 GiB
P Mac HFS                3529897740 3833987101 304089362 ["!↑J↑*!4!44-R ↑
¿yúoó-cÑ]
HFS, 311 GB / 290 GiB

P MS Data                2048 1953124351 1953122304
NTFS, 1999 GB / 1862 GiB
Can't open filesystem. Filesystem seems damaged.

```

```

interface_write()
1 P MS Data                2048 1953124351 1953122304
2 P Mac HFS                1959042355 2786607312 827564958
[µ. . . ?_pÿk+•-! ù?éα/¿ k<ÜÿK]
3 P Mac HFS                3356913821 3391333793 34419973
[\\öü@xµSÄI ä' µ´10î ðm¿yúoó-cÑ]
4 P Mac HFS                3529897740 3833987101 304089362 ["!↑J↑*!4!44-R ↑
¿yúoó-cÑ]
simulate write!

```

```

Analyse Disk /dev/sdb - 3999 GB / 3725 GiB - CHS 243152 255 63
hdr_size=92
hdr_lba_sel f=1
hdr_lba_al t=3906249983 (expected 3906249983)
hdr_lba_start=18
hdr_lba_end=3906249966
hdr_lba_table=2
hdr_entries=128
hdr_entsz=128
check_part_gpt failed for partition
1 P MS Reserved          18      131089      131072 [Microsoft reserved
partition]
Current partition structure:
No FAT, NTFS, ext2, JFS, Reiser, cramfs or XFS marker
1 P MS Reserved          18      131089      131072 [Microsoft reserved
partition]
1 P MS Reserved          18      131089      131072 [Microsoft reserved
partition]

```

2 P MS Data  
partition] [Data]

testdisk\_5  
132096 3906249727 3906117632 [Basic data