DragonFlyBSD - Bug #1560

Unable to modify partition table on ThinkPad T61p during install

10/05/2009 08:45 PM - rehsack

Status:	Feedback	**Start date:**	
Priority:	Normal	**Due date:**	
Assignee:		**% Done:**	0%
Category:	Other	**Estimated time:**	0.00 hour
Target version:	Unverifiable		

Description

Hi all,

I tried to install a DragonFly BSD for testing purposes on a changeable hard
disk on my Laptop (ThinkPad T61p). I didn't got the partition table of
/dev/ad0 modified - neither after dd (as described in /README) nor after
creating another partition table (I tried creating a file system from using
Windows on primary hard disk of this Laptop and Debian - both worked and
both find it after reboot - DragonFly never find anything on that disk).

I attach a full (verbose) dmesg, ls -l of /dev, pciconf -lv output and
finally (always the same) output from fdisk ad0. Sure I would be glad if I
could get DragonFly installed - but much more I hope this helps you to find
a bug.

Best regards,
Jens

History

#1 - 10/06/2009 12:37 PM - thomas.nikolajsen

It seems like you don't have a recognized MBR on 'ad0'.
Installing an initial MBR can be done by:
fdisk -BI ad0

Updating the MBR can be done by:
fdisk -u ad0

If you would like to have multiple OSs installed,
a boot manager can be installed in MBR by:
disklabel -B ad0

How did you try to modify MBR; using installer or manually?
If manually; which commands did you use?
(e.g.
dd if=/dev/zero of=/dev/ad0 bs=512 count=32
fdisk -BI ad0
dd if=/dev/zero of=/dev/ad0s1 bs=512 count=32
disklabel -w -B ad0s1 auto
disklabel -e ad0s1
as example in disklabel man page)

Are you sure the HD you would like to modify is 'ad0'?
'da0' is first AHCI / SCSI attached disk,
'da8' is first external disk (e.g. USB attached),
'ad0' is first ATA / SATA, non-AHCI attached disk.

Your logs show several disks, ad0, ad8 & da0, in system:
egrep '(ad|da)[[:digit:]]' DMESG
..
ad0: 238475MB <SAMSUNG HM251JJ 2AA00 00> at ata0-master UDMA33
ad0: 488397168 sectors [484521C/16H/63S] 16 sectors/interrupt 1 depth queue
ad0: invalid primary partition table: no magic
da0 at ahci0 bus 0 target 0 lun 0
da0: <SATA HITACHI HTS72201 DCDZ> Fixed Direct Access SCSI-4 device
da0: Serial Number 071103DP1D10DGG5YHJP
da0: 150.000MB/s transfers

da0: 152627MB (312581808 512 byte sectors: 255H 63S/T 19457C)
da0: type 0x27, start 2048, end = 13860863, size 13858816 : OK
da0: type 0x7, start 13865040, end = 312575759, size 298710720 : OK
da8 at umass-sim1 bus 1 target 0 lun 0
da8: <3System USB FlashDisk 1.00> Removable Direct Access SCSI-2 device
da8: 1.000MB/s transfers
da8: 15360MB (31457280 512 byte sectors: 255H 63S/T 1958C)
da8: type 0xc, start 63, end = 31455647, size 31455585 : OK
(da8:umass-sim1:1:0:0): lost device
(da8:umass-sim1:1:0:0): removing device entry
da8 at umass-sim0 bus 0 target 0 lun 0
da8: <3System USB FlashDisk 1.00> Removable Direct Access SCSI-2 device
da8: 40.000MB/s transfers
da8: 15360MB (31457280 512 byte sectors: 255H 63S/T 1958C)
da8: type 0xc, start 63, end = 31455647, size 31455585 : OK

#2 - 10/06/2009 12:43 PM - thomas.nikolajsen

A few typos in prev. message:
bootmanager .. 'disklabel -B ad0' -> 'boot0cfg -B ad0'

Your .. disks .. 'ad0, ad8 & da0' - 'ad0, da0 & da8'

#3 - 10/06/2009 12:52 PM - corecode

Thomas Nikolajsen (via DragonFly issue tracker) wrote:
> If you would like to have multiple OSs installed,
> a boot manager can be installed in MBR by:
>   disklabel -B ad0

I think you mean
boot0cfg -B /dev/ad0

cheers
simon

#4 - 10/06/2009 02:52 PM - rehsack

Thomas Nikolajsen (via DragonFly issue tracker) wrote:
> Thomas Nikolajsen <thomas.nikolajsen@mail.dk> added the comment:
>
> It seems like you don't have a recognized MBR on 'ad0'.

Believe me: I have - dozen times. Rebooting between assuming the kernel
caches the current (empty) MBR, powering off the machine - and as I told,
using as well Linux and Windows XP to create a partition including a
filesystem on the disk: DragonFly see always the attached MBR - regardless
what I've done before.

> Installing an initial MBR can be done by:
>   fdisk -BI ad0

Tried - because it's described in /README

> Updating the MBR can be done by:
>   fdisk -u ad0

As in FreeBSD since ages (I'm FreeBSD user since 2000 or so ...)

> If you would like to have multiple OSs installed,
> a boot manager can be installed in MBR by:
>   disklabel -B ad0
>
> How did you try to modify MBR; using installer or manually?

Both.

> If manually; which commands did you use?
> (e.g.
>   dd if=/dev/zero of=/dev/ad0 bs=512 count=32

I used "dd if=/dev/zero of=/dev/ad0 bs=32k count=16 (later I tried count=640)

>   fdisk -BI ad0
>   dd if=/dev/zero of=/dev/ad0s1 bs=512 count=32

>   disklabel -w -B ad0s1 auto
>   disklabel -e ad0s1
> as example in disklabel man page)
>
> Are you sure the HD you would like to modify is 'ad0'?
> 'da0' is first AHCI / SCSI attached disk,

da0 is the "internal" windows disk (seen by both NTFS partitions on it).

> 'da8' is first external disk (e.g. USB attached),

USB stick I used to copy the logs.

> 'ad0' is first ATA / SATA, non-AHCI attached disk.

The empty disk I want to use to put DragonFly BSD on it.

> Your logs show several disks, ad0, ad8 & da0, in system:

I couldn't see anything in the dmesg log, but I thought a developer might do ...

Jens

#5 - 10/07/2009 09:13 PM - thomas.nikolajsen

Could you try booting with AHCI driver disabled (menu item at boot),
and test if this makes you able to modify MBR of your
<SAMSUNG HM251JJ 2AA00 00> disk (currently ad0).

If this doesn't succeed; could you try DragonFly/i386
(I see you are using DragonFly/amd64),
to see if this makes any diffference being able to modify MBR.

If still no success, try disabling AHCI using DragonFly/i386.

#6 - 01/15/2015 08:57 AM - tuxillo

- *Description updated*

- *Category set to Other*

- *Status changed from New to Feedback*

- *Assignee deleted (0)*

- *Target version set to Unverifiable*

Moving to unverifiable.
Feel free to update it if you can test it again.

Cheers,
Antonio Huete

Files

dmesg.log	59.1 KB	10/06/2009	rehsack
fdisk.log	829 Bytes	10/06/2009	rehsack
ls_dev.log	6.24 KB	10/06/2009	rehsack
pciconf.log	6.72 KB	10/06/2009	rehsack