

## Re: Problems with Ext2fs on a CF card.

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  - *Date:* Mon, 21 May 2007 21:32:15 +0000 (UTC)
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Mic <[michaelzwrk@xxxxxxxx](mailto:michaelzwrk@xxxxxxxx)> wrote:

Hi.

I use a Compact Flash card (SanDisk) to hold an ext2 Linux File System on an embedded system, running 2.6 Linux.

The CF is connected in true IDE mode.

I have numerous problems running a File System from the CF: mkfs does not work on partitions, fsck reports errors after booting from the CF etc. and the FS gets corrupted over time.

Below is the procedure I follow to put the FS on the CF.

Please advise if you recognize any faults in the procedure or have any idea what else I can check – any help is most welcome.

Here is what I do:

-----  
Boot over NFS  
mkfs.ext2 /dev/hda

no. first you do an fdisk and setup the partition(s), even if it is only one partition. After you have setup the partition(s), then you use mkfs to make the kind of file system you want on each partition e.g.

```
mkfs -t ext2 /dev/hda1
```

If you can't fdisk it then something is up.

When you've made your partitions in fdisk you have done the 'w' command to write the partition table to disk?

```
mount -t ext2 /dev/hda /mnt/hda/  
cd /mnt/hda  
tar -xvjf /my_file_system.tar.bz2  
Boot over CF.
```

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Notes and Problems I see:

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1. cannot mkfs partition  
if I use fdisk to create partitions (i.e. hda1, hda2), mkfs fails.  
That's why I run it straight on /dev/hda.  
fdisk:  
Disk /dev/hda: 512 MB, 512483328 bytes  
16 heads, 63 sectors/track, 993 cylinders  
Units = cylinders of 1008 \* 512 = 516096 bytes

```
Device Boot Start End Blocks Id System
/dev/hda1 1 497 250456+ 83 Linux
/dev/hda2 498 993 249984 83 Linux
```

```
mkfs.ext2 /dev/hda1
mke2fs 1.38 (30-Jun-2005)
mkfs.ext2: No such file or directory while trying to determine
filesystem size
```

2. fsck complains right after untar  
fsck -t ext2 /dev/hda  
fsck 1.38 (30-Jun-2005)  
e2fsck 1.38 (30-Jun-2005)  
/dev/hda was not cleanly unmounted, check forced.

3. After booting from CF, and rebooting over NFS to run fsck:  
3. After reboot from CF, another reset:  
fsck -t ext2 /dev/hda  
fsck 1.38 (30-Jun-2005)  
e2fsck 1.38 (30-Jun-2005)  
/dev/hda was not cleanly unmounted, check forced.  
Pass 1: Checking inodes, blocks, and sizes  
Inode 85069, i\_blocks is 16, should be 2. Fix<y>? yes  
Free blocks count wrong for group #23 (768, counted=769).  
Fix<y>? yes...

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Thanks for your help,  
Michael