

Re: TFAT stability

Source:

<http://www.tech-archive.net/Archive/WindowsCE/microsoft.public.windowsce.platbuilder/2005-07/msg00078.html>

- *From:* "Bruce Eitman \ (eMVP)" <beitmannospam@xx>
 - *Date:* Tue, 5 Jul 2005 10:42:01 -0400
-

I have also seen these failures on a few platforms, both CE 4.2 and 5.0. I think that it has a lot to do with background compaction and removing power while the flash is being modified.

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"turnsek" <turnsek@xx> wrote in message
news:A6C143B2-6D21-49DF-8F05-B5950ECE3A2A@xxxxxxxxxxxxxxxxxxxxx

- > Hi all!
- >
- > We have PXA255 based platform with WCE42 and we are testing stability of the platform. Our hardware is not battery backed and we rely on powerdown driver
- > and TFAT file system. We have noticed that after number of power down and power up cycles (quite a lot) our platform dies. We have flash resident persistent registry (hive based). Platform could not start anymore. I am suspecting that the file-system is corrupted (so the registry too). We are using msflash strata driver.
- > Our settings are:
- >
- > [HKEY_LOCAL_MACHINE\System\StorageManager]
- > "Dll"="fsdmgr.dll"
- > "PNPUnloadDelay"=dword:0
- >
- > ; @CESYSGEN IF CE_MODULES_STRATAD
- > ; HIVE BOOT SECTION
- > ; StrataFlash block driver.
- > [HKEY_LOCAL_MACHINE\Drivers\BuiltIn\StrataFMD]

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```
> "Dll"="stratad.dll"
> "Order"=dword:2
> "Prefix"="DSK"
> "Ioctl"=dword:4
> "Profile"="MSFlash"
> "IClass"="{A4E7EDDA-E575-4252-9D6B-4195D48BB865}"
> "MemBase"=dword:b9300000
> "MemLen"=dword:03000000
> "Flags"=dword:1000
>
> ; Override names in default profile
> [HKEY_LOCAL_MACHINE\System\StorageManager\Profiles\MSFlash]
> "Name"="MSFLASH for STRATAFLASH"
> "Folder"="Storage Card"
>
> [HKEY_LOCAL_MACHINE\System\StorageManager\Profiles]
> "AutoMount"=dword:1
> "AutoPart"=dword:1
> "AutoFormat"=dword:1
>
> ; Keep FATFS from trying to shadow \Windows
> [HKEY_LOCAL_MACHINE\System\StorageManager\Profiles\MSFlash\FATFS]
> "MountFlags"=dword:2
>
> [HKEY_LOCAL_MACHINE\System\StorageManager\AutoLoad\MSFlash]
> "DriverPath"="Drivers\BuiltIn\StrataFMD"
> "LoadFlags"=dword:1
> "Order"=dword:0
>
> ; END HIVE BOOT SECTION
> ; @CESYSGEN ENDIF CE_MODULES_STRATAD
>
>
> ; @CESYSGEN IF FILESYS_FSREGHIVE
> ; HIVE BOOT SECTION
> [HKEY_LOCAL_MACHINE\init\BootVars]
> "SYSTEMHIVE"="Registry\system.hv"
> "PROFILEDIR"="Registry"
> "Start DevMgr"=dword:1
> "DefaultUser"="Iskraemeco"
> ;Causing some debugchk's in debug version,
> ;performance monitoring tools doesn't work.
> ;RegistryFlags"=dword:1
> ; END HIVE BOOT SECTION
> ; @CESYSGEN ENDIF FILESYS_FSREGHIVE
>
> [HKEY_LOCAL_MACHINE\System\StorageManager\FATFS]
> "FriendlyName"="FAT FileSystem"
> "Dll"="fatfsd.dll"
> ;"Flags"=dword:00000024
> "Flags"=dword:007C0028
```

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> "Paging"=dword:1
> "EnableCache"=dword:1
> "CacheSize"=dword:0
> "Util"="fatutil.dll"
> "FormatTfat"=dword:1
> ; END HIVE BOOT SECTION
> ; @CESYSGEN ENDIF CE_MODULES_FATFSD
>
>
> Any help would be more than welcome.
>
> Thanks, Jernej
>

• *Follow-Ups:*

◆ *Re: TFAT stability*

◇ *From:* turnsek

• *References:*

◆ *TFAT stability*

◇ *From:* turnsek

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