

Re: How to auto mount a PART_DOS32 patition in WinCE4.2 with 2k byte/page nandflash?

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Source:

<http://www.tech-archive.net/Archive/WindowsCE/microsoft.public.windowsce.platbuilder/2006-10/msg01018.html>

- *From:* "ryanox" <ryanoxox@xxxxxxxxxxxx>
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-

Reveiw the code of bootpart.cpp(\public\common\oak\drivers\ethdbg\bootpart) and the header bootpart.h(\public\common\oak\inc) I find that these codes seem to support the 512B size.

maybe it's necessary to modify the bootpart code to support the large size

and in my project, i hope to store the nk image and the Fat system in the same nand flash(2KB/page, wince5.0).

The nand driver works, and in the system, I got the folder "nand flash" defined in the platform.reg.

But each time booting into the system, the fat will format the entire nand flash and erase the nk, even i set other areas as readonly.

My question is that, the binfs feature is the solution to my problem, isn't it?

thanks
Ryo

"Anthony Pellerin" <apellerin@xx> [news:%23\\$mVmnM%23GHA.5092@xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx](mailto:news:%23$mVmnM%23GHA.5092@xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx)

CE4.2 does not support sectors that are not 512. So you can either modify your driver to manage your 2048 sectors as 4 sectors of 512 or customize

the

FATUTIL code (I think the problem comes from a hard coded value inside) after having cloned it.

HTH

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Anthony Pellerin (eMVP)
ADENEO (ADESET)
Windows Embedded Consultant
<apellerin AT adeneo DOT adetelgroup DOT com>
<http://www.adeneo.adetelgroup.com>
Tél : +33 (0)4.72.18.57.77
Fax : +33 (0)4.72.18.57.78

<lljj462@xxxxxxx> a écrit dans le message de news:
1161824527.252393.253450@xx

Hello all:
My device is about S3C2440, it has a large page(2k byte/page)
nandflash(SAMSUNG K9F4G08,

512M), My OS is WinCE4.2 and the BSP is SMDK2440, so My bootloaders
are
nboot and eboot.

Using the BootPart library in eboot, the nandflash in my device has
two partions:BINFS

and FAT32. After the OS is running, I go to the storage manager in
control pannels and can

see two parts(part00, part01) in the list box, the Properties of each
Partition are OK, as

follows:

part00 size 18432 sectors
type 0x21
file system binfs.dll
flag 0x00000000

part01 size 242496 sectors
type 0x0B
file system fatfsd.dll
flag 0x00000000

However, the PART_DOS32 partition(part01) is not mounted by
WinCE4.2, and can not see

the folder "ResidentFlash". If select the Property of part01, the
Partition Properties

dialog correctly displays fatfsd.dll as the file system, but clicking
the mount button just

opens a message box that sais "Unable to mount partition". Even firstly
click the format

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button, it shows ok, secondly click the mount button again, it also shows "Unable

to mount partition".

The registry in the platform.reg used are as follows:

```
.....
```

```
; Support BINFS Section
```

```
.....
```

```
; Add BinFS to partition table
```

```
[HKEY_LOCAL_MACHINE\System\StorageManager\PartitionTable]  
"21"="BINFS"
```

```
[HKEY_LOCAL_MACHINE\System\StorageManager\BINFS]
```

```
"Folder"="BINFS"
```

```
"FriendlyName"="Bin FileSystem"
```

```
"Dll"="binfs.dll"
```

```
; MountFlags:
```

```
; 0x10 specifies that this file system is to be mounted as an external
```

```
; ROM filesystem shadowing the \windows directory
```

```
; 0x1 specifies that the mountpoint \BINFS is to be hidden
```

```
;
```

```
"MountFlags"=dword:11
```

```
"BootPhase"=dword:0
```

```
;
```

```
; Entries to load the block driver that BINFS uses
```

```
; This is dependent on what device is used
```

```
;
```

```
[HKEY_LOCAL_MACHINE\System\StorageManager\AutoLoad\FlashDrv]
```

```
"DriverPath"="Drivers\BlockDevice\FlashDrv"
```

```
"LoadFlags"=dword:1
```

```
"MountFlags"=dword:11
```

```
"BootPhase"=dword:0
```

```
[HKEY_LOCAL_MACHINE\Drivers\BlockDevice\FlashDrv]
```

```
"Prefix"="DSK"
```

```
"Dll"="FLASHDRV.dll"
```

```
"Order"=dword:0
```

```
"Ioctl"=dword:4
```

```
"Profile"="FlashDrv"
```

```
"FriendlyName"="MS Flash Driver"
```

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```
"MountFlags"=dword:11  
"BootPhase"=dword:0
```

```
; Bind BINFS to the block driver
```

```
[HKEY_LOCAL_MACHINE\System\StorageManager\Profiles\FlashDrv]
```

```
"DefaultFileSystem"="BINFS"
```

```
"PartitionDriver"="mspart.dll"
```

```
"AutoMount"=dword:1
```

```
"AutoPart"=dword:1
```

```
"MountFlags"=dword:11
```

```
"Folder"="ResidentFlash"
```

```
"Name"="Microsoft Flash Disk"
```

```
"BootPhase"=dword:0
```

```
; Keep FATFS from trying to shadow \Windows
```

```
[HKEY_LOCAL_MACHINE\System\StorageManager\Profiles\FlashDrv\FATFS]
```

```
"MountFlags"=dword:0
```

```
[HKEY_LOCAL_MACHINE\System\StorageManager\FATFS]
```

```
"MountFlags"=dword:0
```

How to auto mount the PART_DOS32 partition in WinCE4.2 with large page nandflash? Pls

give me some advices.

Thanks a lot for your answers.