

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

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Source:

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-

Review the bootpart.cpp and bootpart.h in "public/common/oak", it seems that the bootpart is for 512 bytes sector.

I guess it is necessary to modify the bootpart.cpp to support the large size.

FOR my question, to use the rest area of the nand flash as fat system, is it necessary to use binfs feature?

wince5.0, nand with 2K/page

The nand driver is working and the folder "nand flash" defined in platform.reg can be found after booting into the system. I can store/delete files in "nand flash".

But the problem is that each time booting into the system, the FAT driver will format the entire flash area and erase nk image. I try to set other sectors as READONLY, but it does not work.

What's up??

Thanks
Ryo

"Anthony Pellerin" <apellerin@xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx> [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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<lljj462@xxxxxxx> a écrit dans le message de news:
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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

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the mount button just

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

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"
```

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```
"Order"=dword:0
"Ioctl"=dword:4
"Profile"="FlashDrv"
"FriendlyName"="MS Flash Driver"
"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.