

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/msg01091.html>

- *From:* "ryanox" <ryanox@xxxxxxxx>
 - *Date:* Tue, 31 Oct 2006 10:41:57 +0800
-

It's such a good advice.
I tried, add an offset in the FMD, and it is ok.
Just make a few modification, it's interesting.

Thanks a lot.

Ryo

"Anthony Pellerin" <apellerin@xx> [news:uifs4DB\\$GHA.4740@xx](mailto:news:uifs4DB$GHA.4740@xx)

For the FATFS, the bootloader as nothing to see. Just build a block driver based on an FMD where the sector 0 is not the first one of the nandflash

but

the first one available for stopring data (it is the same FMD as you

should

run except that you should add an offset).
Try making the modification I talked about in the thread for fatutil and re-format the flash.

HTH

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

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"ryanox" <ryanox@xxxxxxxxxxxx> a écrit dans le message de news:
%23SCxZGa%23GHA.4888@xxxxxxxxxxxxxxxxxxxxxxxxxxxx

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@xxxxxxxxxxxxxxxxxxxxxxxxxxxx>
Ð`ÈëÓÉ¼p
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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

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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:
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

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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

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]

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```
"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"
```

```
"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"
```

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

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

```
\Windows
```

```
[HKEY_LOCAL_MACHINE\System\StorageManager\Profiles\FishDrv\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.