

## Re: FlashROM as a disk in CE 5.0

---

*Source:*

<http://www.tech-archive.net/Archive/WindowsCE/microsoft.public.windowsce.platbuilder/2007-01/msg00318.html>

---

- *From:* gouri <[gouri@xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx](mailto:gouri@xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx)>
  - *Date:* Tue, 9 Jan 2007 22:14:00 -0800
- 

Hi Gary,

Now i am able to loading the stratad.dll but after that i am getting some errors related to block signature.Please see the errors and give me an idea to resolve these errors.

```
0x83fc8994: >>> Loading module coredll.dll at address 0x03EF0000-0x03FF3000
(RW data at 0x01FFE000-0x01FFF7A5)
0x83fc8994: >>> Loading module filesys.exe at address 0x04010000-0x0409F000
0x83fc8994: CertMod.dll not found, using old OEM Trust Model
0x83fc8994: FileSystem Starting - starting with clean file system
0x83fc8994: FS: initializing ROM/RAM file system
0x83fc8994: SC_CreateAPIHandle: pvData == NULL
0x83fc8994: FS: Registering file system ROM, index 2, flags 0x00000031
0x83fc8994: FS: Mount complete (ROM, index 2, flags 0x00000031)
0x83fc8994: >>> Loading module eventlog.dll at address 0x02C70000-0x02C92000
(RW data at 0x01E5F000-0x01E5F8AC)
0x83fc8994: EventLog:: EventLogInit() called
0x83fc8994: OEMIoControl: Unsupported Code 0x101008c - device 0x0101 func 35
0x83fc8994: Succeeded on CheckFile
0x83fc8994: RestoreFile(0xc3fb1f3a) called fDelete = TRUE
0x83fc8994: >>> Loading module fsdmgr.dll at address 0x03BA0000-0x03BCE000
(RW data at 0x01FCA000-0x01FCA808)
0x83fc8994: FS: Registering file system StoreMgr, index 3, flags 0x00000001
0x83fc8994: >>> Loading module ceddk.dll at address 0x03AB0000-0x03AB9000
(RW data at 0x01FBA000-0x01FBA0C4)
0x83fc8994: >>> Loading module stratad.dll at address 0x01190000-0x011A6000
0x83fc8994: VerifySignatures: invalid block detected, calling FMD_EraseBlock
0x83fc8994: STRATA Error: Block 0 locked ... Lower flash.
0x83fc8994: STRATA Error: Block 0 locked ... Upper flash.
0x83fc8994: FMD_EraseBlock: Unable to whack block signature
0x83fc8994: VerifySignatures: error in FMD_EraseBlock, bailing
0x83fc8994: ERROR: FMD_Init: Error while trying to verify block signatures.
0x83fc8994: FLASHDRV.DLL:Unable to initialize FLASH Media Driver (FMD).
0x83fc8994: Invalid handle: Set=1 Method=2
0x83fc8994: FLASHDRV.DLL:CP_StopCompactor() - Unable to suspend compactor
thread!!!
0x83fc8994: FLASHDRV.DLL:CP_DeinitCompactor() - Unable to stop compactor,
```

Re: FlashROM as a disk in CE 5.0

CP\_StopCompactor() failed  
0x83fc8994: Deleting an uninitialized critical section, ignored!  
0x83fc8994: Deleting an uninitialized critical section, ignored!  
0x83fc8994: >>> Loading module mspart.dll at address 0x03B90000-0x03B9E000  
(RW data at 0x01FC8000-0x01FC84AC)  
0x83fc8994: Loading partition driver mspart.dll hModule=83FA8E9C  
0x83fc8994: Driver mspart.dll loaded  
0x83fc8994: CStore Destructor(000B0F80)  
0x83fc8994: <<< Unloading module mspart.dll at address 0x03B90000-0x03B9E000  
(RW data at 0x01FC8000-0x01FC84AC)  
0x83fc8994: <<< Unloading module stratad.dll at address 0x01190000-0x011A6000  
0x83fc8994: <<< Unloading module ceddk.dll at address 0x03AB0000-0x03AB9000  
(RW data at 0x01FBA000-0x01FBA0C4)

Thanks,  
Gouri.

"Gary Swalling" wrote:

Hi Gouri,  
Are you saying that you set a breakpoint in FMD\_Init and didn't hit it  
because the FMD is not getting loaded?  
In that case, your MemSize and MemLength aren't being looked at yet.

You mentioned that you included FAT and it looks like you selected TFAT  
format. Have you included TFAT? I think that at least in CE 4.2, TFAT  
required an additional dll. Maybe you could check the makeimg output for  
the TFAT dll.

Also, I would check reginit.ini and ce.bib in the flatrelease directory to  
make sure your reg and bib changes got included.

If all the components are included correctly, you should be able to see  
FMD\_Init getting called.

Regards,  
Gary

"gouri" <gouri@xxxxxxxxxxxxxxxxxxxxxxxxxxxx> wrote in message  
[news:5D4F26C5-F93C-46ED-A72A-102EB2C79B5E@xxxxxxxxxxxxxxxxxxxx](mailto:news:5D4F26C5-F93C-46ED-A72A-102EB2C79B5E@xxxxxxxxxxxxxxxxxxxx)

Hi Gary Swalling,

I have build the Image in Debug mode and i have captured the Debug  
messages but in driver loading list i didn't find the stratad.dll.I have  
Enabled the following in the Build options.

- 1.Enable CE target control support (SYSGEN\_SHELL=1)
- 2.Enable Eboot Space in memory(IMAGEBOOT=1)
- 3.Enable full kernal mode (IMAGENOTALLKMODE=1)

Re: FlashROM as a disk in CE 5.0

Re: FlashROM as a disk in CE 5.0

- 4.Enable kernal debugger (IMAGENODEBUGGER=1)
- 5.Runtime image can be larger than 32 MB.

and i have modified the Project.bib and project.reg as i said earlier.But why it is not coming in the loading list i didn't get.Am i missing anything.Please help me.

Thnaks,  
Gouri.  
"Gary Swalling" wrote:

Hi Gouri,  
Have you tried debugging FMD\_Init to see if the flash driver is being loaded? And if so, what registry values it finds for MemBase and MemLength?

Regards,  
Gary

"Bruce Eitman [eMVP]"  
<beitman.nospam@xxxxxxxxxxxxxxxxxxxxxxxx> wrote in message  
[news:uDuvgPzMHHA.3668@xxxxxxxxxxxxxxxxxxxxxxxx](mailto:news:uDuvgPzMHHA.3668@xxxxxxxxxxxxxxxxxxxxxxxx)

What about size, did you change that?

--  
Bruce Eitman (eMVP)  
Senior Engineer  
beitman AT applieddata DOT net

Applied Data Systems  
[www.applieddata.net](http://www.applieddata.net)  
An ISO 9001:2000 Registered Company  
Microsoft WEP Gold-level Member

"gouri"  
<gouri@xxxxxxxxxxxxxxxxxxxxxxxx>  
wrote in message  
[news:33D85E34-9653-4766-8733-BC080ED7D8F8@xxxxxxxxxxxxxxxxxxxxxxxx](mailto:news:33D85E34-9653-4766-8733-BC080ED7D8F8@xxxxxxxxxxxxxxxxxxxxxxxx)

Hi bruce,

I tried this option but still there no nor flash folder.I have one doubt here actually we have

Re: FlashROM as a disk in CE 5.0

to use Uncached virtually  
address only  
right. Here  
BE400000 is Uncached  
equivalent value of cached  
9E400000.

Can anybody help me  
please.

Thanks,  
Gouri.

"Bruce Eitman [eMVP]"  
wrote:

Change  
MemBase  
and  
MemLength  
to match  
what you  
put in  
OEMAddressTable?

--  
Bruce  
Eitman  
(eMVP)  
Senior  
Engineer  
beitman AT  
applieddata  
DOT net

Applied  
Data  
Systems  
www.applieddata.net  
An ISO  
9001:2000  
Registered  
Company  
Microsoft  
WEP  
Gold-level  
Member

"gouri"  
<gouri@xxxxxxxxxxxxxxxxxxxxxxxxxxxx>

Re: FlashROM as a disk in CE 5.0

wrote in  
message

[news:0ACA7842-3E06-4EE7-81A3-6F18C2EC1ACF@xxxxxxxxxx](mailto:news:0ACA7842-3E06-4EE7-81A3-6F18C2EC1ACF@xxxxxxxxxx)

Hi  
experts,

Currently  
workin  
on  
proving  
FMD  
support  
for  
Intel  
Strata  
NOR  
flash  
(K3  
family  
of  
32  
MB)  
on  
pxa27x  
platform  
with  
WinCE  
5.0

.I  
amfacing  
a  
strange  
problem  
,  
wherein  
i  
not  
able  
to  
mount  
the  
FAT  
partition.  
The  
driver  
i  
am  
using  
is  
the

Re: FlashROM as a disk in CE 5.0

sample  
FMD  
code  
given  
by  
Microsoft  
for  
NOR  
flashes(  
strata  
folder  
in  
MSFLASHFMD).I  
am  
not  
able  
mount  
the  
"NOR  
folder"  
at  
boot  
time.

for  
this  
I  
have  
included  
the  
SYSGEN\_MSFLASH\_STRATAD=1  
in  
the  
environmental  
variables  
and  
I  
included  
the  
stratad.dll  
in  
project.bib  
like

stratad.dll  
\$(\_FLATRELEASEDIR)\stratad.dll  
NK  
SH.

I  
have

Re: FlashROM as a disk in CE 5.0

added  
the  
Registry  
settings  
to  
Project.reg  
file  
like

```
[HKEY_LOCAL_MACHINE\Drivers\BuiltIn\StrataFMD]
"Dll"="stratad.dll"
"Order"=dword:2
"Prefix"="DSK"
"Ioctl"=dword:4
"Profile"="MSFlash"
"IClass"="{A4E7EDDA-E575-4252-9D6B-4195D48BB86}"
"MemBase"=dword:BE400000
"MemLen"=dword:
001E0000
"Index"=dword:1
"BlockSize"=dword:20000
"WriteBufferSize"=dword:20
"SectorSize"=dword:200
"IsPairedFlash"=dword:1
```

```

;
Override
names
in
default
profile
[HKEY_LOCAL_MACHINE\System\StorageManager\Profile]
"Name"="MSFLASH
for
STRATAFLASH"
"Folder"="NOR
Flash"
"DefaultFileSystem"="FATFS"
"AutoMount"=dword:1
"AutoPart"=dword:1
"AutoFormat"=dword:1
"PartitionDriver"="mspart.dll"
"BootPhase"=dword:0
"MountFlags"=dword:2
```

```
[HKEY_LOCAL_MACHINE\System\StorageManager\Auto]
"DriverPath"="Drivers\BuiltIn\StrataFMD"
;
LoadFlags
```

Re: FlashROM as a disk in CE 5.0

```
0x01
==
load
synchronously
"LoadFlags"=dword:1
"Order"=dword:0
"BootPhase"=dword:0
```

```
[HKEY_LOCAL_MACHINE\init\BootVars]
"SystemHive"="Documents
and
Settings\\system.hv"
"ProfileDir"="Documents
and
Settings"
"Flags"=dword:1
```

```
[HKEY_LOCAL_MACHINE\System\StorageManager\Profile]
"Dll"="fatfsd.dll"
"Flags"=dword:00100024
"Util"="fatutil.dll"
"Paging"=dword:1
"CacheSize"=dword:0
"FormatTfat"=dword:1
```

```
I
have
updated
the
oemaddrtab_cfg.inc
to
```

```
DCD
0x9CA00000,
0x00000000,
26
;
MAINSTONEII:
nCS0:
Boot
Flash
(26MB).
```

```
DCD
0x9E400000,
0x01A00000,
6
;
MAINSTONEII:
```

Re: FlashROM as a disk in CE 5.0

nCS0:  
Storage  
(  
6MB).

Now  
i  
am  
downloading  
the  
Image  
to  
Flash.But  
i  
didn't  
find  
any  
Nor  
flash  
folder  
and  
i  
didn't  
find  
the  
anything  
in  
the  
Storage  
manager  
applet  
which  
is  
in  
Control  
panel.

And  
one  
more  
thing  
i  
have  
added  
Fat  
file  
system  
and  
Partition  
driver  
to

Re: FlashROM as a disk in CE 5.0

my  
OS.If  
i  
add  
the  
Hive  
registry  
to  
os  
Image  
is  
not  
Up  
thats  
why  
i  
have  
removed  
Hive  
registry  
i  
didn't  
find  
any  
Nor  
flash  
folder  
and  
i  
didn't  
find  
the  
anything  
in  
the  
Storage  
manager  
applet  
which  
is  
in  
Control  
panel.  
  
Is  
there  
anything  
is  
missed.Please  
help  
me

Re: FlashROM as a disk in CE 5.0

in  
this  
regard.

Thanks,

Gouri.