

Re: SDSynchronousBusRequest taking long time

Source:

<http://www.tech-archive.net/Archive/WindowsCE/microsoft.public.windowsce.embedded/2007-10/msg00177.html>

- *From:* voidcoder <voidcoder@xxxxxxxxx>
 - *Date:* Tue, 23 Oct 2007 10:19:25 +0100
-

If your target is WM devices (at least WM5/6), it makes sense to look for the boards with Windows CE 5.0 support. I'd suggest you to pick one initially supported by PB (have a look at ..\WINCE500\PLATFORM* directory) to not additionally pay for the BSP itself, note that some OEMs will separately charge for the BSP ...

For example, have a look at SMDK2410 and Mainstone. Both are including SDCARD support and both are natively supported by CE.

If you have in mind playing with different interfaces as well (not only SDCARD) make sure they are all included/supported by the dev kit and BSP.

Here you can find some more boards with Windows CE support:

<http://msdn2.microsoft.com/en-us/embedded/aa714506.aspx>

Just keep in mind that getting an embedded OS running is not a 5 min job. You may need to dig a bit deeper into various building/configuring etc aspects...

—

Oleg

Advait wrote:

Oleg,

Can you suggest us a development kit. I will also browse around on the net but it will be helpful if you suggest some or one that you prefer.

Thanks for your help.

—

Re: SDSynchronousBusRequest taking long time

Shiva

"voidcoder" wrote:

>>device and nothing really shows up after I restart. Does the boot sequence
>>keep some log somewhere?

No, you can't get any boot log on retail WM device.
That is why I suggested you using a development kit
instead if you want full featured debugging capabilities ...

Keep in mind that some WM devices will not accept
unsigned binaries. You may need to sign your driver
binary first:

<http://msdn2.microsoft.com/en-us/library/ms839681.aspx>

>>Also are you available to help us this problem in person? Are you in Bay
>>area(San Francisco)?

I'm not in USA and not able to provide offline help.
Like most developers here, I'm full time on my own
projects.

--

Oleg

Advait wrote:

Yes I have "Show All files" turned on as other dlls show up.
Also this dll does not show up when I connect the handheld
to the cradle.

I tried using the SDBus.dll that I built. Changed the filename
to SDBus.dll to SDBus_debug.dll and updated the registry to
look at it and rebooted the device and nothing really shows
up after I restart. Does the boot sequence keep some log
somewhere?

Also are you available to help us this problem in person? Are
you in Bay area(San Francisco)?

Thanks

-

Shiva

"voidcoder" wrote:

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>>I cannot even see sdbus.dll in the

How do you see that? If you are using WM
File Explorer
make sure "Show All Files" option is turned
on.

>> when I try to copy it across it shows that
the file is
>> in there and is being overwritten.

I'd suggest you to build the binary using
different
file name and then patch registry under:

```
HKLM\Drivers\Builtin\SDBusDriver  
"Dll"="My_SDBus_Driver_With_Debug_Output.dll"
```

--
Oleg

Advait wrote:

Oleg,
I see the sdbus.dll built in
my workspace but when I
tried to copy it across to
WM device it says access
denied. I cannot even see
sdbus.dll in the \Windows
directory BUT when I try to
copy it across it shows that
the file is in there and is
being overwritten.
Any suggestions on this.

—
Shiva

"Advait" wrote:

Oleg,
Thanks for
all your
replies.
We were
wondering
if you will

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be able to
help us out
in person.
Are you in
Bay Area?

–
Shiva

"voidcoder"
wrote:

It
is
definitely
bad
idea
to
modify
public
sources
in
place.
Instead
copy
SDCARD
tree
to
your
platform
directory
and
correct
SOURCES
files
to
build
from
there.
Or
you
can
use
sysgen
capture
tool
(I'm
not
a
big
fun

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of
it):

<http://msdn2.microsoft.com/en-us/library/aa459163.aspx>

Sdcardlib
is
a
statically
linked
library
containing
various
sdcards
related
functions
that
you
are
using
in
your
client
driver.
While
sdbus
driver
is
a
true
standalone
driver,
sdbus.dll
or
something
like
that
on
WM
devices.
I
pointed
you
to
the
sources.

--
Oleg

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Advait
wrote:

Yes
other
cards
work
fine
and
are
recognized
after
a
reboot.

How
do
I
clone
the
sdbus
and
sdcards
libraries?
I
was
thinking
of
changing
the
source
for
these
libraries
and
build
their
libs.
Use
these
libs
when
I
compile
my
dll.
Will
this
NOT

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suffice?
Are
the
sdbus
and
sdcard
libraries
a
separate
dll
in
the
system?

"voidcoder"
wrote:

>
Associated
with
this
I
have
some
more
questions.
The
SDIO
card
we
have
is
>
NOT
identified
by
the
Symbol
M70
running
Windows
Mobile
5.0
after
a
reboot.
>
We
have
to

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remove
the
card
and
re-insert
it
back
for
the
OS
to
recognize
the
>
card
and
load
the
driver
dll.

Does
M70
recognize
any
other
sdcard
after
reboot,
say
sdmemory?
Try
turning
it
off,
then
insert
the
memory
card
and
power
on.
Is
the
card
detected?

>>
1.

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Are
there
sources
in
Platform
Builder
that
I
can
add
some
print
>>
statements
and
find
out
what
is
happening
during
the
boot
process
when
the
>>
devices
are
being
loaded?

In
theory,
you
can
clone
sdbus
driver/sdcardlib
and
add
some
additional
debug
output
to
it.
Next
you
can
patch

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registry
on
WM
target
to
load
your
new
sdbus
driver
instead
of
original
one.
This
may
or
may
not
work
properly,
do
not
forget
that
WM
is
a
bit
different
thing
although
it
is
based
on
CE
core.

>>
2.
Is
it
possible
to
write
a
EXE
that
I

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can
run
to
force
load
the
driver
>>
instead
of
physically
re-inserting
the
card.

No,
you
can't
do
that.
The
client
drivers
get
loaded
in
response
to
the
slot
state
change
notification
initiated
by
the
host
controller
driver
(which
is
normally
triggered
by
the
card
detection
interrupt).
Something
what
you

Re: SDSynchronousBusRequest taking long time

don't
have
sources
for.

--
Oleg

Advait
wrote:

Thanks
for
the
much
helpful
info.
We
will
follow
your
suggestions
to
find
the
problem.

Associated
with
this
I
have
some
more
questions.
The
SDIO
card
we
have
is
NOT
identified
by
the
Symbol
M70
running
Windows

Re: SDSynchronousBusRequest taking long time

Mobile
5.0
after
a
reboot.
We
have
to
remove
the
card
and
re-insert
it
back
for
the
OS
to
recognize
the
card
and
load
the
driver
dll.
The
registry
settings
are
right
as
the
driver
loads
successfully
when
we
re-insert
the
card.
So
questions
are:
1.
Are
there
sources
in
Platform

Re: SDSynchronousBusRequest taking long time

Builder
that
I
can
add
some
print
statements
and
find
out
what
is
happening
during
the
boot
process
when
the
devices
are
being
loaded?

2.
Is
it
possible
to
write
a
EXE
that
I
can
run
to
force
load
the
driver
instead
of
physically
re-inserting
the
card.

"voidcoder"
wrote:

Re: SDSynchronousBusRequest taking long time

>
Can
you
suggest
me
how
to
go
through
the
debugger?
The
code
runs
on
a
>
Windows
Mobile
device.
Currently
I
am
debugging
by
writing
to
a
file.
I
>

Well,
if
you
have
no
possibility
to
debug
on
the
target
device
it
is
getting
more
complicated.
There
are

Re: SDSynchronousBusRequest taking long time

not
too
much
things
you
can
do
about
it
on
a
ready
made
WM5
device.
Especially
because
the
bottleneck
may
be
in
the
lower
level
sdc
card
host
controller
driver
(device
specific)
and
not
in
the
sdb
us
driver
or
sdc
card
lib
(device
independent
thing).
Try
different
WM
devices,
try
to
analyze
sdc
card

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sources,
fortunately
you
have
PB
installed.
Look
here:

....\WINCExxx\PUBLIC\CO

It
is
definitely
worth
buying
a
development
KIT
if
you
want
to
untie
your
hands.
Try
to
google
around,
there
are
enough
devkits
with
SDCARD
on
board
and
Windows
CE
support
...

--
Oleg

Advait

Re: SDSynchronousBusRequest taking long time

wrote:

Sorry
I
was
not
aware
that
I
could
target
multiple
groups
in
"to"
field.
Can
you
suggest
me
how
to
go
through
the
debugger?
The
code
runs
on
a
Windows
Mobile
device.
Currently
I
am
debugging
by
writing
to
a
file.
I
thought
SDSynchronousBusRequest
is
a
call
in
a

Re: SDSynchronousBusRequest taking long time

library
provided
by
Microsoft.
How
can
I
step
through?
I
am
new
to
Platform
builder.
Thanks
for
your
help.

"voidcoder"
wrote:

Why
not
just
step
in
debugger
and
see
where
it
spends
so
much
time?

Also
separate
cross
posting
is
evil.
List
all
target
groups
in
"to"

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field
if
you
want
to
post
to
multiple
groups.

--
Oleg

Advait
wrote:

Hi,

From
the
SDI
drive
we
get
from
Aras
they
use
SDS
to
issue
a
bus
requ
to
their
chip

We
time
befo
and
after
calli
this
API,
and
it
take

Re: SDSynchronousBusRequest taking long time

>
> 230r
Why
it
take
so
long
and
how
can
we
mak
it

muc
faste
The
follo
are
the
code
samp

SDS
SD_
argu
SD_
Resp
&res
1,
bloc
,
pBu
0);

whe

argu
=
BUI
SD_
pDe
wAc
SD_
1);

SD_
resp

Re: SDSynchronousBusRequest taking long time

You
kind
resp
are
grea
appr