

## Re: VS2005 compatibility

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*Source:*

<http://www.tech-archive.net/Archive/WindowsCE/microsoft.public.windowsce.app.development/2006-09/msg00079>

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- *From:* "Paul G. Tobey [eMVP]" <p space tobey no spam AT no instrument no spam DOT com>
  - *Date:* Thu, 7 Sep 2006 10:57:58 -0700
- 

As I said a number of messages back, when I take the source code that you posted as part of your message and build it into a project that I create using the New Project Wizard, it works fine on my Pocket PC. You are clearly doing something wrong in your project or your SDK is broken. It's not a problem with the environment or some setting that you need to change from the default (since, other than the entry point, I changed no defaults). I suppose that you could install the Pocket PC 2005 SDK and try the emulator or a real PPC2005 device, to try to put the blame on your SDK. I'm afraid that you're on your own for the next week or two, as I'll be out of the country. Maybe someone else has some ideas...

Paul T.

"Long" <Long@xxxxxxxxxxxxxxxxxxxxxxxxxxxx> wrote in message <news:EF376E14-1EA3-4179-80E7-C1538DF09EDD@xxxxxxxxxxxxxxxxxxxx>

Thanks for your info, Paul. I have other thing interesting that might be a clue for you. If I put the line "CReg reg;" outside the \_tmain() function, a global variable, the program can run. So it seems a memory management problem. I know the Link have the Heap and Stack memory settings. But no matter what I set those params, it doesn't help if the "CReg reg;" is put inside the \_tmain() function. What do you think?  
"Paul G. Tobey [eMVP]" wrote:

It could be:

1. You are trying to load a module into user space that is a kernel module (not the problem here).
2. You are trying to access an exported API function in coredll.dll that isn't in your version of coredll.dll. This would indicate a mismatch between the SDK and the actual items built into the OS.
3. The EXE could really be bad. I don't know how you would have

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accomplished this, but you might have used the wrong linker, the wrong linker settings, or something of that nature.

4. The operating system might be set up to validate all loads before they are allowed to occur and it might have found your EXE not-allowed because it's not signed or whatever.

5. It could be compiled for the wrong CPU type. Based on your description of the target device and what I see in the EXE, I don't think this is the problem.

6. There could be a problem reading the contents of the EXE file. This might happen, I suppose, if it were on a storage device and the file allocation table or whatever was bad or there was a bad sector.

7. I suppose that this might happen if you tried to run a DLL as a program.

If it were me, I'd start over with a new program, make sure I was targeting the right SDK. Then, I'd use the code in the main module, running from WinMain(), rather than fooling with tmain(), etc. and adding the code for the registry class directly to the same .cpp file. Since it's self-contained, that eliminates any problem include files, which might have references to libraries to be linked, etc. Since that's what I did here with your code, targeting PPC2003, and it worked, I think that will work for you, also. Then you just have to check where in the \*code\* the problem came from, which is a much smaller search space than code+configuration settings.

Paul T.

"Paul G. Tobey [eMVP]" <p space tobey no spam AT no instrument no spam DOT

com> wrote in message

[news:e\\$encTU0GHA.4976@xxxxxxxxxxxxxxxxxxxxxxxxxxxx](mailto:news:e$encTU0GHA.4976@xxxxxxxxxxxxxxxxxxxxxxxxxxxx)

Yes, the application might have the wrong setting for the OS version (although I think that this might have a customized error), the wrong setting for the Windows subsystem, the wrong processor selected. There isn't a long list, but there are a few items. I'm looking to see if I can figure out what the list is, exactly. Try putting the registry

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class  
in  
the same file as the tmain() function.

Paul T.

"Long" <Long@xxxxxxxxxxxxxxxxxxxxxxxxxxxx> wrote in  
message  
[news:3A0B9671-30B2-4855-90F3-8E9CA6030AE1@xxxxxxxxxxxxxxxxxxxx](mailto:news:3A0B9671-30B2-4855-90F3-8E9CA6030AE1@xxxxxxxxxxxxxxxxxxxx)

Hi Paul, Thanks for your helping. Yes, I'm  
using CE 5.0. Would that  
message  
be a generic one? I mean that other errors  
could also generate this  
message?

"Paul G. Tobey [eMVP]" wrote:

And the device that you are  
targeting is running  
Windows CE 5.0? I  
don't  
see any problems with the  
header or the imports. The  
header is  
marked  
for  
THUMB processor,  
Windows CE 5.0, GUI, all  
standard stuff for  
targeting  
Windows CE ARM-based  
devices running 5.0 or later.

Paul T.

"Long Deng"  
<langdeng@xxxxxxxxxxxx>  
wrote in message  
[news:OcfJaVT0GHA.3440@xxxxxxxxxxxxxxxxxxxxxxxxxxxx](mailto:news:OcfJaVT0GHA.3440@xxxxxxxxxxxxxxxxxxxxxxxxxxxx)

Hi Paul,

Attached is  
the ZIP of  
the problem  
EXE. Thank  
you.

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"Paul G.  
Tobey  
[eMVP]" <p  
space tobey  
no spam AT  
no  
instrument  
no  
spam  
DOT  
com> wrote  
in message  
news:%23956p%23S0GHA.4408@xxxxxxxxxxxxxxxxxxxxxxxxxxxx

If  
you're  
using  
a  
Web-based  
interface,  
I  
can't  
help  
you  
with  
attachments.  
I'm  
using  
a  
real  
newsreader  
which  
has  
no  
problems  
with  
it.

You  
say  
"I  
can  
download  
the  
program  
to  
the  
target  
device  
to  
run

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it".  
So,  
what  
happens  
if  
you  
try  
to  
run  
the  
problem  
program  
in  
the  
debugger?

Paul  
T.

"Long"  
<Long@xxxxxxxxxxxxxxxxxxxxxxxxxxxx>  
wrote  
in  
message  
[news:DD9213CA-BF6A-47E2-BA60-2EA3BC140A69@x](mailto:news:DD9213CA-BF6A-47E2-BA60-2EA3BC140A69@x)

I  
don't  
think  
I  
was  
using  
an  
emulator,  
because  
I  
can  
download  
the  
program  
to  
the  
target  
device  
to  
run  
it  
(first  
example)  
or  
copy

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the  
program  
manually  
to  
the  
device  
and  
run  
it.

As  
for  
the  
Workspace  
I  
mentioned,  
actually  
the  
two  
example  
are  
using  
the  
same  
project  
"workspace".

I  
just  
modified  
the  
\_tmain()  
function  
to  
call  
APIs  
or  
use  
the  
CReg.  
So  
the  
project  
settings  
should  
be  
the  
same.  
They  
are  
all  
compiled

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successfully.

The  
only  
difference  
is  
one  
can  
run  
and  
the  
other  
not.

I  
don't  
know  
how  
to  
attached  
the  
exe  
here.

I  
cannot  
find  
any  
other  
options.

"Paul  
G.  
Tobey  
[eMVP]"  
wrote:

2.  
In  
this  
wizard,  
you  
adjusted  
things  
so  
that  
the  
targets  
listed  
are  
just  
your  
specific

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device?

Are  
you  
sure  
you're  
not  
building  
for  
the  
Colibri  
emulator?  
That  
would  
be  
an  
x86  
EXE,  
not  
ARM,  
as  
needed  
for  
the  
real  
device.  
Project  
settings  
are  
not  
attached  
to  
a  
workspace;  
they  
are  
part  
of  
the  
project.  
If  
the  
project  
was  
not  
generated  
as  
a  
Smart  
Device  
application,

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you've  
found  
your  
problem.

You  
can  
attach  
the  
EXE  
itself  
and  
I'll  
see  
what  
the  
headers  
look  
like,  
but  
the  
system  
works  
well,  
generally,  
so  
you're  
doing  
something  
way  
off  
the  
track...

Paul  
T.

"Long"  
<Long@xxxxxxxxxxxxxxxxxxxxxxxxxxxx>  
wrote  
in  
message  
[news:5EDFDEB1-4B4D-4869-A0D4-0227](mailto:news:5EDFDEB1-4B4D-4869-A0D4-0227)

I  
must  
make  
some  
mistakes  
when  
typing

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the  
second  
examples,  
i.e.  
ValueDW(),  
instead  
of  
copying  
and  
pasteing  
the  
code.

I  
think  
I  
did  
the  
same  
as  
you  
did  
except  
my  
program  
cannot  
run.  
This  
is  
what  
I  
did.

1.  
Create  
a  
Smart  
Device  
project.
2.  
Remove  
the  
default  
device  
and  
select  
my  
device:  
Colibri.
- 3  
Select  
Console

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Application.  
ATL,  
MFC  
and  
Empty  
project  
are  
unchcked.

4.  
Then  
finish  
thw  
wizard.  
Everything  
is  
in  
default  
settings.

5.  
Then  
type  
in  
my  
code,  
compile  
and  
run  
with  
or  
without  
debugging.

These  
projects  
do  
not  
need  
additional  
libraries.  
But  
I  
don't  
know  
what  
default  
libs  
they  
use.  
So  
I  
don't

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think  
I  
change  
them.  
Besides  
I  
use  
the  
same  
workspace  
and  
settings  
to  
compile  
the  
two  
examples,  
one  
can  
run  
and  
the  
other  
doesn't.  
If  
that  
is  
not  
a  
problem  
from  
VS2005,  
would  
that  
comes  
from  
BSP  
or  
its  
SDK?

"Paul  
G.  
Tobey  
[eMVP]"  
wrote:

And  
a  
thought

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arises.  
What  
libraries  
are  
you  
linking  
with?  
Did  
you  
change  
anything  
from  
the  
default  
generated  
by  
the  
VS2005  
new  
project  
wizard  
to  
target  
Smart  
Devices?

Paul  
T.

"Long"  
<Long@xxxxxxxxxxxxxxxxxxxxx  
wrote  
in  
message  
[news:491D9629-7A31-425](mailto:news:491D9629-7A31-425)

Thanks  
Paul,

Here  
is  
the  
code  
without  
problems.

```
#include  
"stdafx.h"  
#include  
<windows.h>  
#include
```

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<commctrl.h>

```
int
_tmain(int
argc,
_TCHAR*
argv[])
{
wprintf(L"Starting...

HKEY
m_hKey;
int
m_Index;
LPBYTE
m_lpbValue;
//
last
value
read,
if
any

//TCHAR
szValue[MAX_PATH]
DWORD
ret
=
RegOpenKeyEx(HK
L"Comm",
0,
KEY_READ,
&m_hKey);
DWORD
dwValue
=
1;
DWORD
dwLen
=
sizeof(DWORD);
ret
=
RegQueryValueEx(m
L"BootCount",
NULL,
NULL,
(LPBYTE)&dwValue,
&dwLen);

ret
```

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```
=
RegSetValueEx(m_h
L"Test",
0,
REG_DWORD,
(LPBYTE)&dwValu
sizeof(DWORD));

ret
=
RegCloseKey(m_hK

ret
=
RegFlushKey(HKEY

Sleep(1000);
wprintf(L"Exiting...\

return
0;
}

Here
is
the
code
that
can
be
compiled
successfully,
but
not
run.

//CReg
class
RegHelper.h
#pragma
once
////////////////////////////////////
//
CReg:
Registry
helper
class
////////////////////////////////////
#define
MyFree(p)
{
```

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```
if(p)
LocalFree(p);
}

class
CReg
{
private:
HKEY
m_hKey;
int
m_Index;
LPBYTE
m_lpbValue;
//
last
value
read,
if
any

public:
BOOL
Create(HKEY
hkRoot,
LPCTSTR
pszKey)
{
DWORD
dwDisp;
return
ERROR_SUCCESS;
pszKey,
0,
NULL,
REG_OPTION_NO
KEY_ALL_ACCESS,
NULL,
&m_hKey,
&dwDisp);
}

BOOL
Open(HKEY
hkRoot,
LPCTSTR
pszKey,
REGSAM
sam=KEY_READ)
{
return
```

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```
ERROR_SUCCESS;  
pszKey,  
0,  
sam,  
&m_hKey);  
}
```

```
CReg(HKEY  
hkRoot,  
LPCTSTR  
pszKey)  
{  
m_hKey  
=  
NULL;  
m_Index  
=  
0;  
m_lpbValue  
=  
NULL;  
Open(hkRoot,  
pszKey);  
}
```

```
CReg()  
{  
m_hKey  
=  
NULL;  
m_Index  
=  
0;  
m_lpbValue  
=  
NULL;  
}
```

```
~CReg()  
{  
if(m_hKey)  
RegCloseKey(m_hK  
MyFree(m_lpbValue  
}
```

```
void  
Reset()  
{  
if(m_hKey)  
RegCloseKey(m_hK  
MyFree(m_lpbValue
```

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```
m_hKey
=
NULL;
m_Index
=
0;
m_lpbValue
=
NULL;
}
```

```
operator
HKEY()
{
return
m_hKey;
}
```

```
BOOL
IsOK(void)
{
return
m_hKey!=NULL;
}
```

```
BOOL
EnumKey(LPTSTR
psz,
DWORD
dwLen)
{
if(!m_hKey)
return
FALSE;
return
ERROR_SUCCESS;
m_Index++,
psz,
&dwLen,
NULL,
NULL,
NULL,
NULL);
}
```

```
BOOL
EnumValue(LPTSTR
pszName,
DWORD
dwLenName,
```

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LPTSTR  
pszValue,