

## Exception in \_\_startup

**Source:** <http://coding.derkeiler.com/Archive/Delphi/borland.public.delphi.language.basm/2005-02/0182.html>

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**Date:** 02/10/05

Date: Thu, 10 Feb 2005 15:00:40 -0700

Once again I turn to the experts in .basm for help with a BCB issue.

Here is a message I posted to the madExcept newsgroup earlier. Below the exception report is a 2nd follow-up message with more information.

I hope someone can give me an idea how to tackle this problem as I can't reproduce it here.

Also, is there a way to force a core dump that will help me find the problem?

TIA!

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=====  
1st message  
=====  
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```

Yesterday, my program was shipped to an engineer in Finland. When starting the program he got the following exception. The program is still in beta, and this is the first time it's been executed on a Win2K system.

I've never seen this one before, it appears to be occurring in my startup code, which jibes with my map file. According to the map file, \_\_startup lives in cp32mt.lib. Disassembling the startup object in cp32mt.lib shows the line causing the exception to be:

```
call dword ptr [esi+18h]
```

which, I would guess is calling the initialization code of something.  
So:

- 1) How do I figure out what's being called?
- 2) Is there some way that I can have madExcept create a core dump file that I could then analyze?
- 3) What other approach might I take to finding the problem?

BCB6 w/lots of 3rd party controls.

Thanks for any insight you can provide.

date/time : 2005-02-10 18:53  
computer name : CPASFI1  
user name : cpasfi  
operating system : Windows 2000 Service Pack 4 build 2195  
system language : English  
system up time : 1 hour 49 minutes  
program up time : 1 second  
processor : Intel(R) Pentium(R) 4 CPU 2.80GHz  
physical memory : 155/254 MB (free/total)  
free disk space : (C:) 2,46 GB  
display mode : 1600x1200, 32 bit  
process id : \$6c0  
executable : DVS926PwrMon.exe  
exec. date/time : 2005-02-08 15:40  
version : 1.0.28.46  
madExcept version : 2.7f beta 2  
exception class : EVariantTypeCastError  
exception message : Could not convert variant of type (String) into type (Double).

main thread (\$6c4):  
00000000 ???  
009c4fec DVS926PwrMon.exe \_\_startup

thread \$674:  
77f82870 ntdll.dll NtWaitForSingleObject  
7c599fe2 KERNEL32.dll WaitForSingleObjectEx  
7c57b3d6 KERNEL32.dll WaitForSingleObject  
004bb88e DVS926PwrMon.exe nxllMemoryManager \_16459  
00927fb0 DVS926PwrMon.exe system 11218 ThreadWrapper

thread \$6b4:  
77f8287e ntdll.dll  
NtWaitForMultipleObjects  
7c59a1ad KERNEL32.dll  
WaitForMultipleObjectsEx  
7c59a0bd KERNEL32.dll WaitForMultipleObjects  
004ad014 DVS926PwrMon.exe nxsrFileImplWin32 \_16473  
004ace77 DVS926PwrMon.exe nxsrFileImplWin32 \_16470  
004acc60 DVS926PwrMon.exe nxsrFileImplWin32 \_16467  
00927fb0 DVS926PwrMon.exe system 11218 ThreadWrapper

modules:  
00400000 DVS926PwrMon.exe 1.0.28.46 C:\Program  
Files\DVS926PowerMonitor  
20000000 RXCTRL.dll 9.0.137.0 C:\Program Files\Reflection  
22000000 PGPhk.dll 6.5.3.0 C:\WINNT\system32

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6b2c0000 msimg32.dll 5.0.2180.1 C:\WINNT\system32  
6e420000 INDICDLL.dll 5.0.2920.0 C:\WINNT\system32  
70a70000 SHLWAPI.DLL 6.0.2800.1584 C:\WINNT\system32  
71710000 COMCTL32.DLL 5.81.4916.400 C:\WINNT\system32  
75020000 WS2HELP.DLL 5.0.2134.1 C:\WINNT\system32  
75030000 WS2\_32.DLL 5.0.2195.6601 C:\WINNT\system32  
75050000 WSOCK32.DLL 5.0.2195.6603 C:\WINNT\system32  
759b0000 LZ32.DLL 5.0.2195.6611 C:\WINNT\system32  
75e60000 IMM32.dll 5.0.2195.6655 C:\WINNT\system32  
76620000 MPR.DLL 5.0.2195.6824 C:\WINNT\system32  
76b30000 COMDLG32.DLL 5.0.3700.6693 C:\WINNT\system32  
77570000 WINMM.DLL 5.0.2161.1 C:\WINNT\system32  
77800000 WINSPOOL.DRV 5.0.2195.6659 C:\WINNT\system32  
77820000 VERSION.DLL 5.0.2195.6623 C:\WINNT\system32  
77880000 SETUPAPI.DLL 5.0.2195.6622 C:\WINNT\system32  
779b0000 OLEAUT32.DLL 2.40.4522.0 C:\WINNT\system32  
77a50000 OLE32.DLL 5.0.2195.6906 C:\WINNT\system32  
77d30000 RPCRT4.DLL 5.0.2195.6904 C:\WINNT\system32  
77e10000 USER32.dll 5.0.2195.7017 C:\WINNT\system32  
77f40000 GDI32.DLL 5.0.2195.6945 C:\WINNT\system32  
77f80000 ntdll.dll 5.0.2195.6899 C:\WINNT\system32  
78000000 MSVCRT.DLL 6.1.9844.0 C:\WINNT\system32  
782f0000 SHELL32.DLL 5.0.3900.6975 C:\WINNT\system32  
7c0f0000 USERENV.DLL 5.0.2195.6794 C:\WINNT\system32  
7c2d0000 ADVAPI32.DLL 5.0.2195.6876 C:\WINNT\system32  
7c570000 KERNEL32.dll 5.0.2195.6946 C:\WINNT\system32

=====  
=====  
2nd message  
=====  
=====

>call dword ptr [esi+18h]

It turns out that this is a call to WinMain (at least on my machine).  
That being the case, I wonder if the exception really occurred in  
\_\_startup after all.

Perhaps on the client's machine it was a call to somewhere else? Surely  
not on purpose, but if ESI were corrupted I guess this could happen. But  
in that case I wouldn't expect it to hit something that would raise the  
reported exception – that would be a chance in a million, no?

In the exception report, I had ignored the first line as meaningless.

main thread (\$6c4):  
00000000 ???  
009c4fec DVS926PwrMon.exe \_\_startup

Perhaps it's not. But it doesn't seem likely that the exception:

Exception in \_\_startup

borland.public.delphi.language.basm: Exception in \_\_startup

exception class : EVariantTypeCastError

exception message : Could not convert variant of type (String) into type (Double).

was thrown at address 00000000 does it? I would expect some kind of access violation if I were trying to execute at that address.

What does the 00000000 ??? mean, anyway?

On the other hand, if I had executed into WinMain and the exception was thrown subsequently, wouldn't I see WinMain (and anything else I'd executed into) on the stack?