

# Re: How to prepare a kernel driver pdb file for TraceView

---

*Source:*

<http://www.tech-archive.net/Archive/Development/microsoft.public.development.device.drivers/2007-01/msg00225.html>

---

- *From:* "Eliyas Yakub [MSFT]" <[elijasy@xxxxxxxxxxxxxxxxxxxxxxxx](mailto:elijasy@xxxxxxxxxxxxxxxxxxxxxxxx)>
  - *Date:* Mon, 8 Jan 2007 08:21:05 -0800
- 

You are using the wrong toaster driver. The KMDF version doesn't do any tracing. Use the WDM version – C:\WinDDK\6000\src\general\toaster\func\featured2

–Eliyas

"Carey McMaster" <[mcmaster@xxxxxxxxxxxx](mailto:mcmaster@xxxxxxxxxxxx)> wrote in message [news:ujisZkzMHHA.5064@xxxxxxxxxxxxxxxxxxxxxxxx](mailto:news:ujisZkzMHHA.5064@xxxxxxxxxxxxxxxxxxxxxxxx)

Thanks for that Ken. Your suggestion to copy the .dll to the x86 dir works fine. I'm using my trusty XP (sp2) development system (Standard Dell Optiplex GX280).

\*\*\* Ok so now I get

```
=====  
C:\WinDDK\6000\src\kmdf\toaster\func\featured\objchk_wxp_x86\i386>tracepdb -f  
wdffeatured.  
pdb -p tmf
```

```
Microsoft (R) TracePDB.Exe (6.0.6000.16386)  
? Microsoft Corporation. All rights reserved.
```

```
tracepdb : info BNP0000: WPPFMT No Trace entries found in wdffeatured.pdb
```

```
C:\WinDDK\6000\src\kmdf\toaster\func\featured\objchk_wxp_x86\i386>  
=====
```

Which is what Eliyas wanted me to check. I'm compiling the WDK 6000 demo's unmodified on XP Pro. Do I need to do something else to get tracing turned on? Is it a bad assumption that tracing should be enabled by default in a checked environment?

thanks again!  
–cm

"Skywing [MVP]" <[skywing\\_NO\\_SPAM\\_@xxxxxxxxxxxxxxxxxxxxxxxx](mailto:skywing_NO_SPAM_@xxxxxxxxxxxxxxxxxxxxxxxx)> wrote in message [news:%239tF7oQMHA.4384@xxxxxxxxxxxxxxxxxxxxxxxx](mailto:news:%239tF7oQMHA.4384@xxxxxxxxxxxxxxxxxxxxxxxx)

Re: How to prepare a kernel driver pdb file for TraceView

That is probably the root cause of your problem. In the absence of manifests or .local files, the following algorithm is used to find DLLs

1. Directory containing the main executable file for the process.
2. Directory specified by the SetDllDirectory API, if this API has been called.
3. System directory.
4. Win16 system directory.
5. Windows directory.
6. %PATH%, in order of appearance in the environment variable.

My guess is that you are getting down to #3, and as there is a dbghelp.dll in the system directory, it is being loaded.

You might try copying the dbghelp.dll in bin\x86 to the directory containing tracepdb.exe and seeing if that works.

BTW, my supposition as to why this is working for Eliyas and not you is that Eliyas is using Windows Vista (which ships a new enough version of dbghelp so as to have SymSearch/SymSearchW), and you are using a non-Vista/Windows Server "Longhorn" version (perhaps Windows XP) that ships an old dbghelp which does not meet the requirements of tracepdb.exe. My guess is that nobody bothered testing this functionality on pre-Vista systems, so this slipped through to the RTM WDK.

—  
Ken Johnson (Skywing)  
Windows SDK MVP  
<http://www.nynaeve.net>

"Carey McMaster" <mcmaster@xxxxxxxxxxxx> wrote in message  
[news:%23iLyaZOMHHA.4928@xxxxxxxxxxxxxxxxxxxxxxxxxxxx](mailto:news:%23iLyaZOMHHA.4928@xxxxxxxxxxxxxxxxxxxxxxxxxxxx)

Ken,

There are 7 different versions of dbghelp.dll on my system (arghhhh).

In my XP x86 Checked env cmd window  
c:\winddk\6000\bin\x86 is the first path entry to have dbghelp.dll. I tried the debug method you gave me, and it shows that it is getting dbghelp.dll from \windows\system32 though my path says different. Am I hosed? Are the tracing tools hosed?

thanks,  
-cm

"Skywing [MVP]"  
<skywing\_NO\_SPAM\_@xxxxxxxxxxxxxxxxxxxxxxxx> wrote in message

Re: How to prepare a kernel driver pdb file for TraceView

[news:%23mPfwGOMHHA.3288@xxxxxxxxxxxxxxxxxxxxxxxxxxxx](mailto:news:%23mPfwGOMHHA.3288@xxxxxxxxxxxxxxxxxxxxxxxxxxxx)

Is it possible that the wrong version of dbghelp.dll (perhaps an old version in %systemroot%\system32) is being loaded instead? Try starting the process under a debugger (perhaps attach to the cmd instance associated with the DDK build environment, use '.childdb' and run the tracepdb command from there. Note the path to the loaded dbghelp.dll instance and make sure it's really the newer one in bin\x86 and not the old version that ships with the OS.

--

Ken Johnson (Skywing)

Windows SDK MVP

<http://www.nynaeve.net>

"Carey McMaster"

<mcmaster@xxxxxxxxxxxx> wrote in message

[news:eDgJhvPMHHA.2232@xxxxxxxxxxxxxxxxxxxxxxxxxxxx](mailto:news:eDgJhvPMHHA.2232@xxxxxxxxxxxxxxxxxxxxxxxxxxxx)

Eliyas, I get the same output as you do. Dbghelp.dll contains SymSearch at 145 and 146. I'm searching my disk for more dbghelp.dll

"Eliyas Yakub [MSFT]"

<eliyasy@xxxxxxxxxxxxxxxxxxxxxxxx> wrote in message

[news:OAAB7fPMHHA.3268@xxxxxxxxxxxxxxxxxxxxxxxxxxxx](mailto:news:OAAB7fPMHHA.3268@xxxxxxxxxxxxxxxxxxxxxxxxxxxx)

You get this error if the dbghelp.dll doesn't have SymSearch function exported. Can you check your dgbhelp.dll to see if it exports this function?

This how you check for it.

Re: How to prepare a kernel driver pdb file for TraceView

```
C:\WinDDK\6000\tools\tracing\i386>link
/dump
/exports
C:\WinDDK\6000\bin\x86\dbghelp.dll
| findstr
SymSearch
145 90
00037E40
SymSearch
146 91
00037EB0
SymSearchW

-Eliyas
```