

Error: DRIVER_IRQL_NOT_LESS_OR_EQUAL, Blue screen of Death

Source:

<http://www.tech-archive.net/Archive/WinXP/microsoft.public.windowsxp.hardware/2004-02/3356.html>

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Hello,

I keep getting the Blue Screen of Death (BSOD) lately.

I have two machines. Dell 4550 runs XP Pro.
Dell 4600 the other runs XP.
Each has an onboard Intel ethernet connection.
Each Connected with a crossover cable directly to each other.
Each has a firewire IEEE1394 card in it.

I know that this has something to do with the network.
Why? Originally, there was no networking. Only since I
connected the two, and installed Windows networking,
have I been getting problems.

I have downloaded the latest drivers from Intel and
installed them. I then turned on both machines, with
no applications running on them, and went to the store.
When I came back, I had the BSOD.
Interestingly, the BSOD only occurs on XP Pro.

Also different about XP Pro:

- all the network connections are bridged.
- there is MAC bridge Miniport in XP Pro, but nothing similar in XP.
- Task manager shows a network bridge at 400 mbps, when the card is only supposed to handle 100 Mbps. The 1394 is can handle 400.

I never did get the two XP machines to talk to each other at the Windows level. But they work at when I use Intel's test tool.

Grizzly details follow. Any ideas?

Thanks a lot!

I believe the last event in the event log before the BSOD is:

The system detected that network adapter MAC Bridge Miniport – Packet Scheduler Miniport was connected to the network, and has initiated normal operation over the network adapter.

And after rebooting from the crash:

The computer has rebooted from a bugcheck.

The bugcheck was:

0x000000d1 (0x00000000, 0x00000002, 0x00000000, 0x00000000).

A dump was saved in: C:\WINDOWS\MEMORY.DMP.

I've got some debug info from Memory.dmp:

Microsoft (R) Windows Debugger Version 6.2.0013.1
Copyright (c) Microsoft Corporation. All rights reserved.

Loading Dump File [C:\WINDOWS\Minidump\Mini021804-02.dmp]
Mini Kernel Dump File: Only registers and stack trace are available

Symbol search path is: *** Invalid ***

* Symbol loading may be unreliable without a symbol search path.

*

* Use .symfix to have the debugger choose a symbol path.

*

* After setting your symbol path, use .reload to refresh symbol locations. *

Executable search path is:

* Symbols can not be loaded because symbol path is not initialized. *

* *

* The Symbol Path can be set by: *

* using the _NT_SYMBOL_PATH environment variable. *

* using the -y <symbol_path> argument when starting the debugger. *

* using .sympath and .sympath+ *

*** ERROR: Symbol file could not be found. Defaulted to export symbols for ntoskrnl.exe –

Windows XP Kernel Version 2600 (Service Pack 1) UP Free x86 compatible

Product: WinNt

Built by: 2600.xpsp2.030422-1633

Kernel base = 0x804d4000 PsLoadedModuleList = 0x80543530

Debug session time: Wed Feb 18 19:31:02 2004

System Uptime: 0 days 0:46:26.953

```
*****
* Symbols can not be loaded because symbol path is not initialized. *
* *
* The Symbol Path can be set by: *
* using the _NT_SYMBOL_PATH environment variable. *
* using the -y <symbol_path> argument when starting the debugger. *
* using .sympath and .sympath+ *
*****
*** ERROR: Symbol file could not be found. Defaulted to export
symbols for ntoskrnl.exe -
Loading Kernel Symbols
.....
Loading unloaded module list
.....
Loading User Symbols
*****
*
*
* Bugcheck Analysis
*
*
*
*****
```

Use !analyze -v to get detailed debugging information.

BugCheck D1, {0, 2, 0, 0}

***** Kernel symbols are WRONG. Please fix symbols to do analysis.

Unable to load image \SystemRoot\System32\DRIVERS\e100b325.sys, Win32 error 2

*** WARNING: Unable to verify timestamp for e100b325.sys

*** ERROR: Module load completed but symbols could not be loaded for e100b325.sys

Unable to load image NDIS.sys, Win32 error 2

*** WARNING: Unable to verify timestamp for NDIS.sys

*** ERROR: Module load completed but symbols could not be loaded for NDIS.sys

Unable to load image \??\C:\WINDOWS\System32\vsdatant.sys, Win32 error 2

*** WARNING: Unable to verify timestamp for vsdatant.sys

*** ERROR: Module load completed but symbols could not be loaded for vsdatant.sys

Unable to load image \SystemRoot\System32\DRIVERS\bridge.sys, Win32 error 2

*** WARNING: Unable to verify timestamp for bridge.sys

*** ERROR: Module load completed but symbols could not be loaded for bridge.sys

Probably caused by : Unknown_Image (e100b325+18817)

Followup: MachineOwner

kd> !analyze -v

```
*****  
*  
*  
* Bugcheck Analysis  
*  
*  
*  
*****
```

DRIVER_IRQL_NOT_LESS_OR_EQUAL (d1)
An attempt was made to access a pageable (or completely invalid) address at an interrupt request level (IRQL) that is too high. This is usually caused by drivers using improper addresses.
If kernel debugger is available get stack backtrace.
Arguments:
Arg1: 00000000, memory referenced
Arg2: 00000002, IRQL
Arg3: 00000000, value 0 = read operation, 1 = write operation
Arg4: 00000000, address which referenced memory

Debugging Details:

***** Kernel symbols are WRONG. Please fix symbols to do analysis.

READ_ADDRESS: unable to get nt!MmPoolCodeEnd
unable to get nt!MmSpecialPoolEnd
unable to get nt!MmPagedPoolEnd
unable to get nt!MmNonPagedPoolEnd
unable to get nt!MmNonPagedPoolStart
unable to get nt!MmSpecialPoolStart
unable to get nt!MmPagedPoolStart
unable to get nt!MiSessionPoolStart
unable to get nt!MiSessionPoolEnd
unable to get nt!MmNonPagedPoolExpansionStart
unable to get nt!MmPoolCodeStart
00000000

CURRENT_IRQL: 2

FAULTING_IP:
+0
00000000 ?? ???

DEFAULT_BUCKET_ID: DRIVER_FAULT

microsoft.public.windowsxp.hardware: Error: DRIVER_IRQL_NOT_LESS_OR_EQUAL, Blue screen of Death

BUGCHECK_STR: 0xD1

LAST_CONTROL_TRANSFER: from 80530335 to 804f4103

STACK_TEXT:

WARNING: Stack unwind information not available. Following frames may be wrong.

80539070 80530335 0000000a 00000000 00000002 nt!KeBugCheckEx+0x19
8053908c 00000000 82c181fc f6747817 82c181f8 nt!Kei386EoiHelper+0x257d

FAILED_INSTRUCTION_ADDRESS:

+0
00000000 ?? ???

FOLLOWUP_IP:

e100b325+18817
f6747817 ?? ???

FOLLOWUP_NAME: MachineOwner

SYMBOL_NAME: e100b325+18817

MODULE_NAME: Unknown_Module

IMAGE_NAME: Unknown_Image

DEBUG_FLR_IMAGE_TIMESTAMP: 0

STACK_COMMAND: kb

BUCKET_ID: WRONG_SYMBOLS

Followup: MachineOwner
