Subject: Re: IDL 8.2+ Segmentation Fault / Abort on OSX with Dual-Thunderbolt Displays

Posted by Joseph Hunkeler on Fri, 24 Oct 2014 21:00:48 GMT

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On Friday, September 26, 2014 11:22:23 AM UTC-4, Joseph Hunkeler wrote:
> On Thursday, September 25, 2014 6:22:59 PM UTC-4, Joseph Hunkeler wrote:
>> Here goes...
>>
>>
>>
>>
>>
>> ## The Symptoms
>>
>>
>>
>> IDL 8.2+ immediately crashes at run-time if `LM LICENSE FILE` or
'/Applications/exelis/license/license.dat' is populated. If neither the environment variable or the
license file are present, IDL enters demo mode successfully.
>>
>>
>>
>> ### IDL 8.2 Crash Message
>>
>>
>>
>>
>> $ idl
>> IDL Version 8.2.3, Mac OS X (darwin x86_64 m64). (c) 2013, Exelis Visual Information
Solutions, Inc.
>> Segmentation fault: 11
>>
>> [/bash]
>>
>>
>>
>> ### IDL 8.3 Crash Message
>>
>>
>>
>>
>>
>> $ idl
>>
```

	IDL Version 8.3, Madutions, Inc.	c OS X (darwin x86_64 m64). (c) 2013, Exelis Visual Information	
>> allo	idl(3438,0x7fff736a7 ocated	310) malloc: *** error for object 0xf07: pointer being freed was not	
>> >> >>	*** set a breakpoint i	n malloc_error_break to debug	
	Abort trap: 6		
	[/bash]		
>> >>			
>>	## The Cause		
>> >>	At was time of the one;		
abo cra ren	out the local system's shes because we have	ng data is provided by the end-user, IDL attempts to gather information network interfaces (specifically the MAC address). In our case IDL we two external Thunderbolt monitors connected to the computer. If we nal displays IDL is able to continue on and retrieve a license without	
>>			
Blu Ada	etooth (1), FireWire (2 apters (2), and an IPS	ncing the crash has eleven network interfaces defined, consisting of 2), WiFi (1), Thunderbolt Ethernet (2), On-board Ethernet (2), Bridge Sec VPN (1). Whether these interfaces are active or not means nothing, the one for a valid MAC address.	
>>			
>> >>	### IDL 8.2 Backtrad		
>>	mm IDE 0.2 Baokirac		
>>			
>>	The data left babind	in // ibram // and/DiagnosticDenorts was mildly useful with IDL 0.2. The	
"I_ç		in /Library/Logs/DiagnosticReports was mildly useful with IDL 8.2. The d the hardware address of a given (unknown) ethernet device, but failed ::	
>>			
>>			
>> >>			
>>			
>> >>	·		
>>	mapped file	000000106483000-0000000107af6000 [22.4M] r/r-x SM=ALI	

```
/usr/share/icu/icudt51I.dat
>>
>> -->
>>
      STACK GUARD
                            00007fff5bc00000-00007fff5f400000 [ 56.0M] ---/rwx SM=NUL
>>
stack guard for thread 0
>>
>>
>> Thread 0 Crashed:: Dispatch queue: com.apple.main-thread
>>
                               0x00000010079d6df | getid hw + 34 <<<< HERE
>> 0 libidl.8.2.dylib
>>
                               0x00000010079d534 l_getid_type + 2064
      libidl.8.2.dylib
>> 1
>>
>> 2 libidl.8.2.dylib
                               0x00000010079cc65 | gethostid + 26
>>
                               0x0000001007866f6 checkout_from_server + 278
>> 3 libidl.8.2.dylib
>>
>> 4 libidl.8.2.dylib
                               0x00000010078400a lm_start_real + 1048
>>
                               0x00000010078343b | checkout + 530
>> 5 libidl.8.2.dylib
>>
>> 6 libidl.8.2.dylib
                               0x000000100783157 lc_checkout + 191
                               0x0000001000ec7c2 IDL_lm_checkout2 + 184
>> 7 libidl.8.2.dylib
>>
      libidl.8.2.dylib
                               0x0000001000eddc4 d_line + 103
>> 8
>>
>> 9 libidl.8.2.dylib
                               0x0000001000eef7b init_system_routines + 699
>>
>> 10 libidl.8.2.dylib
                               0x00000010000c306 IDL_Initialize + 3591
>>
                               0x00000010000c4b8 IDL_Main + 64
>> 11 libidl.8.2.dylib
>>
                            0x000000100000f11 main + 227
>> 12 idl
>>
>> 13 idl
                            0x00000010000000c start + 52
>> [/bash]
>>
>>
>>
>> ### IDL 8.3 Backtrace
>>
>>
>>
```

>> Unfortunately, IDL 8.3's crash report is essentially useless. No relevant information was given

to help trace the error.
>>
>>
>>
>>
>>
>> Exception Type: EXC_CRASH (SIGABRT)
>>
>> Exception Codes: 0x000000000000000, 0x000000000000000
>>
>>
>>
>> Application Specific Information:
>>
>> abort() called
>>
>> *** error for object 0xf07: pointer being freed was not allocated
>>
>> [/bash]
>> .
>>
>>
>> ## Conclusion
>>
>>
>>
>> Until Exelis releases a patch to address this issue I recommend unplugging your second
monitor if you need to get your work done.
>>
>>
>>
>> **Note:** We did *not* delete the unused Thunderbolt interfaces from `System Preferences -:
Network` to test whether this cleared things up or not. Maybe it does, maybe it doesn't. Give it a
try.
>> ~~
>>
>> ~~
>>
>> >> #################################
>>
>>
>> Any idea if this will be fived in 0.4 (and/ar with hatfives for provious IDI releases)?
>> Any idea if this will be fixed in 8.4 (and/or with hotfixes for previous IDL releases)?
>>
>>
>> Original articles by the standard of the constant of the co
>> Original article: http://nuclearfall.com/?p=332

```
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>> 
>> 
>> 
>> 
>> Thanks, 
>> 
>> Joe 
> 
> Hi Chris, 
> 
> I appreciate the clarification. OK. Looks like I'll be updating everything at release time. 
> 
> Thanks again for all of your help! 
> 
> Regards, 
> Joe
```

Great news!

Now that we finally got our hands IDL 8.4 I wanted to confirm this update *did* fix the segmentation fault issue on the machines in question.

Regards, Joe