
Subject: Re: Crashes in IDL 7.1 & 8.0, interactive + VM mode, linux and Mac OS X
Posted by [svhhaugan](#) on Fri, 21 Jan 2011 15:51:20 GMT
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On Jan 19, 6:09 pm, svhhaugan <s.v.h.hau...@astro.uio.no> wrote:

> I've realized that I'll need to find a workaround rather than wait for
> a fix, so I'm not going to take this any further...

...and in doing so, I've narrowed down the cause to...<drum-roll>...

```
IDL> errstate = !error_state
```

```
IDL> !error_state = errstate
```

[See the crash below, starting with the "which,'blah" statement.

Thing is, it's impossible to SAVE,/SYSTEM_VARIABLES without getting this one bundled in there. But since I'm now doing them one-by-one using assignments to/from "normal" variables, it's easy to treat this one as yet-another variable-that-must-not-be-named. The other variable-that-must-not-be-named is !NULL, which is read-only, so one would not expect it to be assignable - the funny thing is that it doesn't give the same error message as assignments to e.g. !PI:

```
IDL> !pi=!pi
```

```
% Attempt to write to a readonly variable: !PI.
```

```
IDL> !null=!null
```

```
% Variable is undefined: <UNDEFINED>.
```

This kind'a makes sense, I suppose, but was still a big surprise to me 8-)

```
IDL> which,'blah
```

```
% Compiled module: WHICH.
```

```
% Compiled module: OS_FAMILY.
```

```
% Compiled module: HAVE_TAG.
```

```
% Compiled module: DELVARX.
```

```
% Compiled module: TRIM.
```

```
% Compiled module: GREP.
```

```
% Compiled module: APPEND_ARR.
```

```
% Compiled module: EXIST.
```

```
% Compiled module: STR_SEP.
```

```
% Compiled module: CONCAT_DIR.
```

```
*** glibc detected *** /astro/local/rsi/idl/bin/bin.linux.x86_64/idl:
```

```
free(): invalid pointer: 0x00002aee51788285 ***
```

```
===== Backtrace: =====
```

```
/lib64/libc.so.6[0x2aee5258a45f]
```

```
/lib64/libc.so.6(cfree+0x4b)[0x2aee5258a8bb]
```

```
/astro/local/rsi/idl/bin/bin.linux.x86_64/libidl.so.
```

```

8.0(IDL_MemFreeMSG_LONGJMP+0x39)[0x2aee50e9bb92]
===== Memory map: =====
00400000-00401000 r-xp 00000000 00:16
6406154          /mn/alruba/astro/local/rsi/idl80/
bin/bin.linux.x86_64/idl
00500000-00501000 rw-p 00000000 00:16
6406154          /mn/alruba/astro/local/rsi/idl80/
bin/bin.linux.x86_64/idl
0d175000-0d2c8000 rw-p 0d175000 00:00
0              [heap]
405b5000-405b6000 ---p 405b5000 00:00 0
405b6000-407b6000 rwxp 405b6000 00:00 0
40f30000-40f32000 rwxp 00000000 00:11
3148           /dev/zero
4102f000-41030000 ---p 4102f000 00:00 0
41030000-41230000 rwxp 41030000 00:00 0
415cb000-415cc000 ---p 415cb000 00:00 0
415cc000-417cc000 rwxp 415cc000 00:00 0
417cc000-417cd000 ---p 417cc000 00:00 0
417cd000-419cd000 rwxp 417cd000 00:00 0
35b9e00000-35b9e14000 r-xp 00000000 fd:02
1583063         /usr/lib64/libz.so.1.2.3
35b9e14000-35ba013000 ---p 00014000 fd:02
1583063         /usr/lib64/libz.so.1.2.3
35ba013000-35ba014000 rw-p 00013000 fd:02
1583063         /usr/lib64/libz.so.1.2.3
35ba200000-35ba305000 r-xp 00000000 fd:02
1583113         /usr/lib64/libX11.so.6.2.0
35ba305000-35ba505000 ---p 00105000 fd:02
1583113         /usr/lib64/libX11.so.6.2.0
35ba505000-35ba50c000 rw-p 00105000 fd:02
1583113         /usr/lib64/libX11.so.6.2.0
35ba600000-35ba605000 r-xp 00000000 fd:02
1583111         /usr/lib64/libXdmcp.so.6.0.0
35ba605000-35ba804000 ---p 00005000 fd:02
1583111         /usr/lib64/libXdmcp.so.6.0.0
35ba804000-35ba805000 rw-p 00004000 fd:02
1583111         /usr/lib64/libXdmcp.so.6.0.0
35baa00000-35baa02000 r-xp 00000000 fd:02
1583101         /usr/lib64/libXau.so.6.0.0
35baa02000-35bac01000 ---p 00002000 fd:02
1583101         /usr/lib64/libXau.so.6.0.0
35bac01000-35bac02000 rw-p 00001000 fd:02
1583101         /usr/lib64/libXau.so.6.0.0
35bae00000-35bae10000 r-xp 00000000 fd:02
1114113         /usr/lib64/libXext.so.6.4.0
35bae10000-35bb010000 ---p 00010000 fd:02
1114113         /usr/lib64/libXext.so.6.4.0

```

35bb010000-35bb011000 rw-p 00010000 fd:02
1114113 /usr/lib64/libXext.so.6.4.0
35be200000-35be217000 r-xp 00000000 fd:02
1114121 /usr/lib64/libICE.so.6.3.0
35be217000-35be416000 ---p 00017000 fd:02
1114121 /usr/lib64/libICE.so.6.3.0
35be416000-35be418000 rw-p 00016000 fd:02
1114121 /usr/lib64/libICE.so.6.3.0
35be418000-35be41b000 rw-p 35be418000 00:00 0
35be600000-35be609000 r-xp 00000000 fd:02
1114122 /usr/lib64/libSM.so.6.0.0
35be609000-35be809000 ---p 00009000 fd:02
1114122 /usr/lib64/libSM.so.6.0.0
35be809000-35be80a000 rw-p 00009000 fd:02
1114122 /usr/lib64/libSM.so.6.0.0
35bee00000-35bee17000 r-xp 00000000 fd:02
1114124 /usr/lib64/libXmu.so.6.2.0
35bee17000-35bf016000 ---p 00017000 fd:02
1114124 /usr/lib64/libXmu.so.6.2.0
35bf016000-35bf018000 rw-p 00016000 fd:02
1114124 /usr/lib64/libXmu.so.6.2.0
35bfa00000-35bfa10000 r-xp 00000000 fd:02
1114125 /usr/lib64/libXpm.so.4.11.0
35bfa10000-35bfc10000 ---p 00010000 fd:02
1114125 /usr/lib64/libXpm.so.4.11.0
35bfc10000-35bfc11000 rw-p 00010000 fd:02
1114125 /usr/lib64/libXpm.so.4.11.0
35c2800000-35c2899000 r-xp 00000000 fd:02
1114282 /usr/lib64/libGL.so.1.6.0
35c2899000-35c2998000 ---p 00099000 fd:02
1114282 /usr/lib64/libGL.Abort
