
Subject: Re: smooth() bug in (at least) version 8.5.1
Posted by [wlandsman](#) on Fri, 02 Dec 2016 15:06:05 GMT
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On Friday, December 2, 2016 at 9:03:27 AM UTC-5, Helder wrote:

> Hi,
> I came across this bug and it's a "heavy" one, meaning that IDL crashes and you're thrown back out.
>
> The crashing commands are (try at own risk!):
> sm = smooth(indgen(512,511), 9, /edge_mirror)
> sm = smooth(indgen(512,510), 9, /edge_mirror)
>
> And just to be pedantic, I've tested a few other cases and these did NOT result in a crash:
> sm = smooth(indgen(512,512), 9, /edge_mirror)
> sm = smooth(indgen(511,511), 9, /edge_mirror)
>
> It appears that smooth (stopped?) being able to smooth rectangular arrays.
>
> By running the above from the command line I get the following error (for a couple of seconds on the command line terminal):
> % Array has a corrupted descriptor: <no name>
> % Execution halted at: \$Main\$
>
> And my IDL version.
> IDL> !version
> {
> "ARCH": "x86_64",
> "OS": "Win32",
> "OS_FAMILY": "Windows",
> "OS_NAME": "Microsoft Windows",
> "RELEASE": "8.5.1",
> "BUILD_DATE": "Nov 14 2015",
> "MEMORY_BITS": 64,
> "FILE_OFFSET_BITS": 64
> }
>
> I others are brave enough, could you let me know if it crashes on other versions of IDL? Edge_mirror and _wrap have been added only in 8.1.
>
> Cheers,
> Helder

It also crashes on my Macbook running 8.5.1 and on my Linux systems running (32 bit) 8.2.2 and (64 bit) 8.5.1. So it looks like a problem in the internal SMOOTH() algorithm. --Wayne

```
"ARCH": "x86_64",  
"OS": "darwin",
```

```
"OS_FAMILY": "unix",  
"OS_NAME": "Mac OS X",  
"RELEASE": "8.5.1",  
"BUILD_DATE": "Nov 14 2015",  
"MEMORY_BITS": 64,  
"FILE_OFFSET_BITS": 64
```

```
ARCH      STRinG  'x86_64'  
OS        STRING  'linux'  
OS_FAMILY STRING  'unix'  
OS_NAME   STRING  'linux'  
RELEASE   STRING  '8.5.1'  
BUILD_DATE STRING  'Nov 14 2015'  
MEMORY_BITS INT    64  
FILE_OFFSET_BITS  
          INT      64
```

```
ARCH      STRING  'x86'  
OS        STRING  'linux'  
OS_FAMILY STRING  'unix'  
OS_NAME   STRING  'linux'  
RELEASE   STRING  '8.2.2'  
BUILD_DATE STRING  'Jan 23 2013'  
MEMORY_BITS INT    32  
FILE_OFFSET_BITS  
          INT      64
```
