Subject: Re: smooth() bug in (at least) version 8.5.1
Posted by Helder Marchetto on Fri, 02 Dec 2016 15:13:33 GMT
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On Friday, December 2, 2016 at 4:06:08 PM UTC+1, wlandsman wrote:
> 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

Hi Wayne,
thanks. I just the info from Harris, that this bug will most likely not make it into 8.6 (January?). It has been logged with ID:IDL-69705.
Thanks for testing.

Cheers,
Helder