
Subject: Re: histogram crashes (example code)

Posted by [Stein Vidar Hagfors H\[1\]](#) on Thu, 16 Nov 2000 08:00:00 GMT

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"R.G.S." <rgs1967@hotmail.com> writes:

> Here is a main level code that does crash IDL 5.3.1 on WinNT4 SP5
> So if anyone cares to see if it runs on other platforms, please
> let me know how it works out.

Crashes here, too:

```
IDL> print,!version  
{ sparc sunos unix 5.3 Nov 11 1999}
```

(Or rather, it crashes when you try to do anything **after** executing that histogram call).

By the way, talking to Bill Thompson I just learned that it's now possible to say:

```
IDL> a=fltarr(1,1,1,1,1,1,1,2)  
IDL> help,a[0,0,0,0,0,0,0,0]
```

which used to give some kind of syntax error in previous IDL versions (4.x, at least) whereas it would work with 7 subscripts, but not 8. However, look at this:

```
IDL> help,[0,0]  
<Expression> INT = Array[2]  
IDL> help,[[0],[0]]  
<Expression> INT = Array[1, 2]  
IDL> help,[[[0]],[[0]]]  
<Expression> INT = Array[1, 1, 2]  
IDL> help,[[[[0]]],[[0]]]
```

```
help,[[[[[0]]],[[0]]]]  
      ^
```

% Only eight levels of variable concatenation are allowed.

Obviously, they forgot to fix all aspects of the parser...

Stein Vidar Hagfors Haugan
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Subject: Re: histogram crashes (example code)
Posted by [mole6e23](#) on Thu, 16 Nov 2000 08:00:00 GMT
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> Here is a main level code that does crash IDL 5.3.1 on WinNT4 SP5
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I went back and tried the code on Alpha IDL 5.3 and 5.1. In both cases, the same "crash on exit" phenomenon as I saw on the Mac took place (as per my previous post). I was actually able to print the results, etc, and do other commands, but when I typed "exit", IDL exited with a segmentation fault. Odd, huh?

Todd

Subject: Re: histogram crashes (example code)
Posted by [Paul van Delst](#) on Thu, 16 Nov 2000 08:00:00 GMT
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"R.G.S." wrote:

>
> Here is a main level code that does crash IDL 5.3.1 on WinNT4 SP5
> So if anyone cares to see if it runs on other platforms, please
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>
> Cheers,
> bob
>
> ; An example of histogram error crashes (kills IDL 5.3.1, Winnt)
>
> ;create fake data
> nscan = 1624
> nwide = 76
> lat = randomn(seed,nwide,nscan)*50
>
> ;create NANs in data
> ind = randomu(seed,43293L)
> ind = ind(UNIQ(ind, SORT(ind)))
> ind = ind*n_elements(lat)
> lat(ind) = !values.f_nan
>

```

> ; create binning ranges
> latrange = [-70,-20]
> deltalat = 4
>
> ;offending histogram call
> hlat = histogram(lat(*),binsize = float(deltalat), min =float(latrange(0)),$
> max = float(latrange(1)),REVERSE_INDICES = R,omax = omax,omin=omin,/nan)
>
> end

```

Ran just fine on my machine (IDL 5.4, linux RH6.1). I don't know if the results were any good or not but nothing untoward happened.

```

IDL> help
% At $MAIN$
DELTALAT      INT      =      4
HLAT          LONG      = Array[13]
IND           FLOAT     = Array[43255]
LAT           FLOAT     = Array[76, 1624]
LATRANGE      INT       = Array[2]
NSCAN         INT       = 1624
NWIDE         INT       = 76
OMAX          FLOAT     = -20.0000
OMIN          FLOAT     = -70.0000
R             LONG      = Array[22970]
SEED          LONG      = Array[36]
Compiled Procedures:
  $MAIN$

```

```

Compiled Functions:
  UNIQ

```

paulv

--

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 Camp Springs MD 20746

Subject: Re: histogram crashes (example code)
 Posted by [davidf](#) on Thu, 16 Nov 2000 08:00:00 GMT
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R.G.S. (rgs1967@hotmail.com) writes:

> Here is a main level code that does crash IDL 5.3.1 on WinNT4 SP5
> So if anyone cares to see if it runs on other platforms, please
> let me know how it works out.

Oh, oh. Works great in IDL 5.4 on WinNT4, SP 6. :-)

Cheers,

David

P.S. It did crash IDL 5.3.1 on same platform.

--

David Fanning, Ph.D.

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Coyote's Guide to IDL Programming: <http://www.dfanning.com/>

Toll-Free IDL Book Orders: 1-888-461-0155

Subject: Re: histogram crashes (example code)

Posted by [mole6e23](#) on Thu, 16 Nov 2000 08:00:00 GMT

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The code did not crash IDL 5.4 on Alpha, but DID crash IDL 5.03 on Mac (crashed hard - for those who know, the debugger said it ended up in the infamous (but non-existent, according to apple) "Bowels of the memory manager"), although oddly enough, it didn't crash instantly. I ran the code and it was OK...my next command was 'exit', and that's when it went down.

Todd

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nwide = 76

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;create NaNs in data

ind = randomu(seed,43293L)

ind = ind(UNIQ(ind, SORT(ind)))

ind = ind*n_elements(lat)

lat(ind) = !values.f_nan

; create binning ranges

latrange = [-70,-20]

deltalat = 4

;offending histogram call

hlat = histogram(lat(*),binsize = float(deltalat), min =float(latrange(0)),\$

max = float(latrange(1)),REVERSE_INDICES = R,omax = omax,omin=omin,/nan)

end
