Subject: bug in plotting with large long integers
Posted by David Ritscher on Tue, 23 Mar 1999 08:00:00 GMT
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I just came across an interesting bug in IDL and PV-Wave:

plot, /ynozero, lindgen(2000) + long(1e9)

It seems to be thrown off by numeric problems, resulting in a staircase
instead of a straight line.

David Ritscher

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Subject: Re: bug in plotting with large long integers
Posted by Axel vom Endt on Wed, 24 Mar 1999 08:00:00 GMT
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David Ritscher wrote:
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>
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>
> David Ritscher

Yes, but this behaviour is documented in the online help of PLOT:

"This argument is converted to single-precision floating-point before
plotting. Plots created with PLOT are limited to the range and precision
of single-precision floating-point values."

Your long(1e9) is converted to float. Try

```
IDL> print, float(long(1e9) + 1L) - long(1e9)
      0.00000
```

Hope that helps

Axel
