Subject: Re: Plotting double precision (seg fault)
Posted by Jacques Basson on Wed, 15 Mar 2000 08:00:00 GMT
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Just as well, I am starting to get really annoyed with errors like

```
IDL> shade_surf, dindgen(50,50), (dindgen(50)+1)*1d+37, dindgen(50)
% SHADE_SURF: Warning: Infinite plot range.
Segmentation fault
>
```

whereas

```
IDL> shade_surf, dindgen(50,50), (dindgen(50)+1)*1d+35, dindgen(50)
```

works perfectly :-(

Jacques

Mark Goosman wrote:
>
> I am happy to say that in IDL 5.4, scheduled for release this summer, will
> have support for
> displaying double precision values in both Direct Graphics and Object
> Graphics. In the case
> of Direct Graphics, extensive work has been done to prevent IDL from
> converting incoming
> data to single precision values. The work in Object Graphics addressed the
> limitations of
> OpenGL accepting only single precision values for input.
>
> Research Systems is interested in working with any IDL user who is
> interested in participating
> in the IDL 5.4 Beta program which will begin in the next couple of months.
> Anyone who is interested
> in participating as an IDL 5.4 Beta Tester can contact me at Research
> Systems (mgoosman@rsinc.com).
> We are always interested in making sure that changes and enhancements to any
> area of IDL,
> especially one as significant as the Direct and Object Graphics systems does
> not cause problems
> for existing IDL users and their applications.
>
> Best regards,
>
> Mark Goosman
>
> **

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>
> Jacques Basson <jfb37@NOSPAM.cam.ac.uk> wrote in message
> news:38B4FD5B.D776DF61@NOSPAM.cam.ac.uk...
>> Hi all
>>
>> Does anyone know how I can plot double precision values in IDL. The plot
>> routine help says:
>>
>> Plots created with PLOT are limited to the range and precision of
>> single-precision floating-point values.
>>
>> Unfortunaltely, this means that values which do not lie in the
>> +-10^(+-38) range can't be easily plotted. Of course as luck would have
>> it, my values are of the order 10^(-39), and I'd rather not have factors
>> of 10 in my labels. The other option would be to take logs before
>> plotting rather than using the /ylog keyword, but I prefer the axis
>> label to have the value of the variable, rather than its log.
>>
>> Thanks
>> Jacques Basson