Subject: Re: Problem writing SCATTERPLOT() with more than 4096 points to PDF file

Posted by chris_torrence@NOSPAM on Thu, 11 Jun 2015 23:26:19 GMT

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On Thursday, June 11, 2015 at 1:00:50 PM UTC-6, Helder wrote:
> On Thursday, June 11, 2015 at 8:19:37 PM UTC+2, wlandsman wrote:
>> I am having problems writing a SCATTERPLOT() to a PDF file.
>>
>> The following plot displays correctly in a window.
>>
>> x = randomn(seed,4096)
>> y = randomn(seed,4096)
>> p = scatterplot(x,y,/sym_filled,sym_color='blue',symbol='circle')
>>
>> But when I then try to save to a PDF file, I get the error message:
>>
>> % SAVE: Error in PDF creation: INVALID_SHADING
>>
>> I have no problems when saving the plot in other data formats.
>>
>> There also is no problem if I plot less than 4096 points.
>>
>> Finally, the problem still exists if I first open a window with /BUFFER and write directly to a
PDF file.
>>
>> Thanks, --Wayne
>>
>>
>> w = window(dimen=[800,1100],/buffer)
>> x = randomn(seed,4096)
>> y = randomn(seed,4096)
>>
>> p = scatterplot(x,y,/current,/sym_filled,sym_color='blue',symbol ='circle')
>> w.save,'test.pdf'
>>
>> IDL> print,!version
>> { x86_64 darwin unix Mac OS X 8.4 Sep 27 2014   64   64}
>
> Just to add some statistics: I get the same results.
> IDL> !version
> {
>   "ARCH": "x86_64",
>   "OS": "Win32",
>   "OS_FAMILY": "Windows",
>   "OS_NAME": "Microsoft Windows",
>   "RELEASE": "8.4.1",
>   "BUILD_DATE": "Feb 17 2015",

```
>     "MEMORY_BITS": 64,
>     "FILE_OFFSET_BITS": 64
> }
>
> Cheers,
> Helder
```

I can confirm that this is indeed a bug. I doubt it will get fixed for IDL 8.5. As a workaround, you can use the /BITMAP keyword when saving to the PDF.

Cheers,
Chris