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Subject: set\_plot,'PS' and accurate colors?

Posted by [dave](#) on Tue, 07 Jan 2003 18:53:49 GMT

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If I plot PS files in IDL I can't seem to get the same color table as when I plot to the screen. I've tried the

```
./interpolate  
as well as
```

```
device,file='24bit.ps', /color,bits=16 (8,16,24,32)
```

```
device,/color
```

Nothing seems to change the compression of the colors in the PS file.

Any ideas?

David

knapp(at)rtt.colorado.edu

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Subject: Re: set\_plot,'PS' and accurate colors?

Posted by [dave](#) on Wed, 08 Jan 2003 21:30:38 GMT

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- > Assuming you have a 16-bit or 24-bit display, you can send your line
- > plotting commands to a window (or an off-screen pixmap created by "window,
- > /PIXMAP") then extract the image with "tvrd(/TRUE)".

I wonder if tvrd isn't supported in win2k IDL -

- >
  - >
  - > There are lots of complications & subtleties associated with different
  - > colour models in IDL direct graphics. I suggest you read everything you can
  - > find on the subject at David's WWW site:
  - >
  - > <http://www.dfanning.com/>
  - >
  - > --
  - > Mark Hadfield "Ka puwaha te tai nei, Hoesa tatou"
  - > [m.hadfield@niwa.co.nz](mailto:m.hadfield@niwa.co.nz)
  - > National Institute for Water and Atmospheric Research (NIWA)
- 
-

Subject: Re: set\_plot,'PS' and accurate colors?  
Posted by [dave](#) on Wed, 08 Jan 2003 21:32:48 GMT  
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Mark Hadfield wrote:

Assuming you have a 16-bit or 24-bit display, you can send your line

> plotting commands to a window (or an off-screen pixmap created by "window,  
> /PIXMAP") then extract the image with "tvrd(/TRUE)".

I wonder if TVRD isn't supported on win2k IDL:

```
% Attempt to call undefined procedure/function: 'TVRD'.  
% Execution halted at: BT          333 C:\Documents and  
Settings\Administrator\Desktop\CF_BTs\bt.pro
```

>  
> There are lots of complications & subtleties associated with different  
> colour models in IDL direct graphics. I suggest you read everything you can  
> find on the subject at David's WWW site:  
>  
> <http://www.dfanning.com/>  
> nal Institute for Water and Atmospheric Research (NIWA)

Thanks for your help, I've used that website numerous times, it's great - I  
think I'm going to have to punt here due to time constraints.

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Subject: Re: set\_plot,'PS' and accurate colors?  
Posted by [Mark Hadfield](#) on Wed, 08 Jan 2003 21:49:31 GMT  
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"dave" <[knapp@rtt.colorado.edu](mailto:knapp@rtt.colorado.edu).NOSPAM> wrote in message  
news:3E1C9900.D447BDCB@rtt.colorado.edu.NOSPAM...

> I wonder if TVRD isn't supported on win2k IDL:  
>  
> % Attempt to call undefined procedure/function: 'TVRD'.  
> % Execution halted at: BT 333 C:\Documents and  
> Settings\Administrator\Desktop\CF\_BTs\bt.pro

TVRD most definitely *\*is\** supported on Win2K.

It's clear there's *\*something\** odd happening. I wonder what. Are you trying  
to call TVRD as a procedure?

--

Mark Hadfield            "Ka puwaha te tai nei, Hoesa tatou"

m.hadfield@niwa.co.nz

National Institute for Water and Atmospheric Research (NIWA)

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Subject: Re: set\_plot,'PS' and accurate colors?

Posted by [David Fanning](#) on Wed, 08 Jan 2003 21:55:47 GMT

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dave (knapp@rtt.colorado.edu.NOSPAM) writes:

```
> I wonder if TVRD isn't supported on win2k IDL:  
>  
> % Attempt to call undefined procedure/function: 'TVRD'.  
> % Execution halted at: BT          333 C:\Documents and  
> Settings\Administrator\Desktop\CF_BTs\bt.pro
```

I think you must have called it as a procedure, instead of  
as a function:

```
snapshot = TVRD(True=1)
```

Cheers,

David

--

David W. Fanning, Ph.D.

Fanning Software Consulting, Inc.

Phone: 970-221-0438, E-mail: [david@dfanning.com](mailto:david@dfanning.com)

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

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

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Subject: Re: set\_plot,'PS' and accurate colors?

Posted by [Kenneth P. Bowman](#) on Fri, 10 Jan 2003 04:31:06 GMT

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I know the PRINTER device will do 24-bit color, but it has its own  
hassles with setting up devices, etc.

Can't we all just send a letter to RSI asking that they PLEASE include  
real 24-bit support in the postscript device? This problem crops up  
year after year.

Ken Bowman

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Subject: Re: set\_plot,'PS' and accurate colors?  
Posted by [dave](#) on Fri, 10 Jan 2003 19:18:51 GMT  
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David Fanning wrote:

```
> dave (knapp@rtt.colorado.edu.NOSPAM) writes:
>
>> I wonder if TVRD isn't supported on win2k IDL:
>>
>> % Attempt to call undefined procedure/function: 'TVRD'.
>> % Execution halted at: BT          333 C:\Documents and
>> Settings\Administrator\Desktop\CF_BTs\bt.pro
>
> I think you must have called it as a procedure, instead of
> as a function:
>
> snapshot = TVRD(True=1)
```

Tried both ways actually, I'm dumb but I'm not stupid...

---

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Subject: Re: set\_plot,'PS' and accurate colors?  
Posted by [David Fanning](#) on Fri, 10 Jan 2003 19:27:34 GMT  
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---

dave (knapp@rtt.colorado.edu.NOSPAM) writes:

```
> Tried both ways actually, I'm dumb but I'm not stupid...
```

Well, I'm pretty sure, then, that you didn't type what  
you \*thought\* you typed. :-)

Cheers,

David

--

David W. Fanning, Ph.D.  
Fanning Software Consulting, Inc.  
Phone: 970-221-0438, E-mail: [david@dfanning.com](mailto:david@dfanning.com)  
Coyote's Guide to IDL Programming: <http://www.dfanning.com/>  
Toll-Free IDL Book Orders: 1-888-461-0155

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Subject: Re: set\_plot,'PS' and accurate colors?  
Posted by [R.G. Stockwell](#) on Fri, 10 Jan 2003 20:18:07 GMT  
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dave wrote:

```
>
> David Fanning wrote:
>
>
>> dave (knapp@rtt.colorado.edu.NOSPAM) writes:
>>
>>
>>> I wonder if TVRD isn't supported on win2k IDL:
>>>
>>> % Attempt to call undefined procedure/function: 'TVRD'.
>>> % Execution halted at: BT          333 C:\Documents and
>>> Settings\Administrator\Desktop\CF_BTs\bt.pro
>>>
>> I think you must have called it as a procedure, instead of
>> as a function:
>>
>> snapshot = TVRD(True=1)
>>
>
> Tried both ways actually, I'm dumb but I'm not stupid...
>
>
>
```

TVRD() does work on win2k (idl5.6)

That message results when you call it as a procedure, and it cannot find the procedure definition.

If you called a nonexistent function, IDL will think it is an array, and give you a syntax error (unless you changed the compiler settings). (or it gives you a "variable is undefined" if you call it with a parameter).

If you start up IDL, you should be able to type

IDL> help,tvrd()

at the command line and see it work.

Cheers,  
bob stockwell

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