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Subject: completely reset PostScript device between plots?

Posted by [noymer](#) on Sat, 27 Apr 2002 05:33:08 GMT

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Dear Comp.Lang.IDL-PVwave,

I have a program that generates three separate EPS graphs in IDL (5.3) direct graphics. This must be a FAQ but searching Google didn't yield anything. You guys have been particularly patient with my questions in the past, so I'm going to venture a post.

The PS device is remembering something about prior graphs and it's messing up the later graphs. They are the wrong size, etc. I tried to mess around with various settings (charsize, etc., etc.) but none of them seem to fix the problem. If I skip a prior graph, the problem goes away for the subsequent one. Is there not a way just to reset totally the PS device between plots without getting lost in resetting every little thing? (or just some other way to prevent this problem?)

Just to be perfectly clear, this is not a !P.Multi issue: I have three separate graphs in three separate Encapsulated Post Script files.

I have flags that indicate which graphs to do. I usually want to draw all three graphs, so I do: "FOO, 1,1,1" at the IDL prompt. If I want only the middle graph, it would be "FOO, 0,1,0" - and so on. So, for now, I can solve the problem by calling the program three separate times (1,0,0; 0,1,0; 0,0,1). But there must be a better way. I built the flags for reasons other than to work around this problem, and in fact before I noticed the problem, so it's not a big deal for the time being. But I'd like to know how to do this without the kludge.

TIA,  
Andrew

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Subject: Re: completely reset PostScript device between plots?

Posted by [R.Bauer](#) on Mon, 29 Apr 2002 10:55:12 GMT

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noymer@socrates.Berkeley.EDU wrote:

>

> Dear Comp.Lang.IDL-PVwave,

>

> I have a program that generates three separate EPS graphs in IDL  
> (5.3) direct graphics. This must be a FAQ but searching Google didn't  
> yield anything. You guys have been particularly patient with my  
> questions in the past, so I'm going to venture a post.

>  
> The PS device is remembering something about prior graphs and it's  
> messing up the later graphs. They are the wrong size, etc. I tried  
> to mess around with various settings (charsize, etc., etc.) but none  
> of them seem to fix the problem. If I skip a prior graph, the problem  
> goes away for the subsequent one. Is there not a way just to reset  
> totally the PS device between plots without getting lost in resetting  
> every little thing? (or just some other way to prevent this problem?)  
>  
> Just to be perfectly clear, this is not a !P.Multi issue: I have  
> three separate graphs in three separate Encapsulated Post Script  
> files.  
>  
> I have flags that indicate which graphs to do. I usually want to  
> draw all three graphs, so I do: "FOO, 1,1,1" at the IDL prompt. If I  
> want only the middle graph, it would be "FOO, 0,1,0" - and so on. So,  
> for now, I can solve the problem by calling the program three separate  
> times (1,0,0; 0,1,0; 0,0,1). But there must be a better way. I built  
> the flags for reasons other than to work around this problem, and in  
> fact before I noticed the problem, so it's not a big deal for the time  
> being. But I'd like to know how to do this without the kludge.  
>  
> TIA,  
> Andrew  
>  
>

You scripts or the plot itself changes some system variables.  
This is normal but in your case you should set them back to a previous  
state.

You can save the system variables before each plot and restore them  
back after one plot.

This could be done by:

[http://www.fz-juelich.de/icg/icg-i/idl\\_icglib/idl\\_source/idl\\_html/dbase/download/savesysvar.tar.gz](http://www.fz-juelich.de/icg/icg-i/idl_icglib/idl_source/idl_html/dbase/download/savesysvar.tar.gz)

[http://www.fz-juelich.de/icg/icg-i/idl\\_icglib/idl\\_source/idl\\_html/dbase/download/restsysvar.tar.gz](http://www.fz-juelich.de/icg/icg-i/idl_icglib/idl_source/idl_html/dbase/download/restsysvar.tar.gz)

For further routines please have a look at

[http://www.fz-juelich.de/icg/icg1/idl\\_icglib/idl\\_lib\\_intro.html](http://www.fz-juelich.de/icg/icg1/idl_icglib/idl_lib_intro.html)

regards

Reimar

--

Reimar Bauer

Institut fuer Stratosphaerische Chemie (ICG-I)  
Forschungszentrum Juelich  
email: R.Bauer@fz-juelich.de

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a IDL library at Forschungszentrum Juelich  
[http://www.fz-juelich.de/icg/icg1/idl\\_icglib/idl\\_lib\\_intro.html](http://www.fz-juelich.de/icg/icg1/idl_icglib/idl_lib_intro.html)  
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Subject: Re: completely reset PostScript device between plots?

Posted by [noymer](#) on Mon, 29 Apr 2002 17:34:34 GMT

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Reimar Bauer <r.bauer@fz-juelich.de> writes:

> You can save the system variables before each plot and restore them  
> back after one plot.  
>  
> [http://www.fz-juelich.de/icg/\[...\]/savesysvar.tar.gz](http://www.fz-juelich.de/icg/[...]/savesysvar.tar.gz) + restsysvar.tar.gz  
>

Dear Reimar,

Thanks!

Let me ask you:

This:

```
; EXAMPLE:  
; save = savesysvar()  
; ..... plotting ....  
; restore, save
```

Should read:

```
; EXAMPLE:  
; save = savesysvar()  
; ..... plotting ....  
; restsysvar, save
```

No? Either that or I'm confused.

Also: it doesn't work. I must be changing something that is not

saved/restored by your code, which looks to be useful generally speaking.

-Andrew

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Subject: Re: completely reset PostScript device between plots?

Posted by [R.Bauer](#) on Tue, 30 Apr 2002 11:26:43 GMT

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noymer@socrates.Berkeley.EDU wrote:

```
>
> Reimar Bauer <r.bauer@fz-juelich.de> writes:
>
>> You can save the system variables before each plot and restore them
>> back afer one plot.
>>
>> http://www.fz-juelich.de/icg/ [...] /savesysvar.tar.gz + restsysvar.tar.gz
>>
>
> Dear Reimar,
>
> Thanks!
>
> Let me ask you:
>
> This:
>     ; EXAMPLE:
>     ;   save = savesysvar()
>     ;   ..... plotting ....
>     ;   restore, save
>
> Should read:
>     ; EXAMPLE:
>     ;   save = savesysvar()
>     ;   ..... plotting ....
>     ;   restsysvar, save
>
> No? Either that or I'm confused.
>
> Also: it doesn't work. I must be changing something that is not
> saved/restored by your code, which looks to be useful generally speaking.
>
> -Andrew
```

Thanks for this info

Can you try another trick,

```
save,file='sysv.sav',/SYSTEM_VARIABLES
..... plotting ....
restore,file='sysv.sav'
..... plotting ....
```

If this works then I like to add some more ! variables to our routines. (If I know which)

Reimar

--

Reimar Bauer

Institut fuer Stratosphaerische Chemie (ICG-I)  
Forschungszentrum Juelich  
email: R.Bauer@fz-juelich.de

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a IDL library at ForschungsZentrum Juelich  
[http://www.fz-juelich.de/icg/icg1/idl\\_icglib/idl\\_lib\\_intro.h tml](http://www.fz-juelich.de/icg/icg1/idl_icglib/idl_lib_intro.h_tml)

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