
Subject: Re: Multiple images in the same Window
Posted by [Andy Sayer](#) on Fri, 16 Aug 2013 16:02:51 GMT
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You can set the system variable !p.multi to set the number of plots to shown in a single window. Here is an excerpt from the IDL online help for the plot procedure (it is probably elsewhere too):

Multiple Plots on a Page

Plots can be grouped on the display or page in the horizontal and/or vertical directions using the system variable field !P.MULTI. IDL sets the plot window to produce the given number of plots on each page and moves the window to a new sector at the beginning of each plot. If the page is full, it is first erased. If more than two rows or columns of plots are produced, IDL decreases the character size by a factor of 2.

!P.MULTI controls the output of multiple plots. Set !P.MULTI equal to an integer vector in which: The first element of the vector contains the number of empty sectors remaining on the page. The display is erased if this field is zero when a new plot is begun.

The second element of the vector contains the number of plots per page in the horizontal direction.

The third element contains the number of plots per page in the vertical direction.

The fourth element contains the number of plots stacked in the Z dimension.

The fifth element controls the order in which plots are drawn. Set the fifth element equal to zero to make plots from left to right (column major), and top to bottom. Set the fifth element equal to one to make plots from top to bottom, left to right (row major).

Omitting any of the five elements from the vector is the same as setting that element equal to zero.

For example, to set up two plots vertically on each page, use the following statement:

```
!P.MULTI = [0, 1, 2]
```

Note that the first element, !P.MULTI (0), is set to zero to cause the next plot to begin a new page.

To make four plots per page with two columns and two rows, use the following statement:

```
!P.MULTI = [0, 2, 2]
```

To reset to the default of one plot per page, set the value of !P.MULTI to 0, as shown in the following statement:

```
!P.MULTI = 0
```

So, if you have 7 images, you might want to try setting !p.multi=[0,4,2] before your first plot of the 7, which will give you 2 rows of 4 plots each. If you don't supply position arguments, IDL will automagically order them for you in the window (left-right, then top-bottom). The caveat here is that I have not used the new function graphics in IDL 8, which is what it looks like you may be using, so I don't know if additional information is needed for that.

So you might try:

```
!p.multi=[0,4,2] ; Set up 4x2 plots per window  
for n=0,6 do begin ; Loop over your 7 variables  
    (plot code here)  
endfor  
!p.multi=0 ; Resets to default settings
```

Andy

On Friday, August 16, 2013 11:55:55 AM UTC-4, Cornelio Zolin wrote:

```
> Hi all,  
>  
> I'm trying to plot 7 images (columns) in the same window to analyze them together. Using  
the code bellow I can display the images, but they didn't appear side by side, instead they  
overlay one another (I think that's why I can see just one).  
>  
> In the IDL.Docs we have some ideas about how to do this using the CURRENT property, but I  
couldn't figure out how to put this in the code.  
>  
>  
>  
> Can anyone help on that?  
>  
>  
>  
> Thanks a lot.  
>  
>  
>  
> Zolin  
>  
>  
>  
> Pro MultiImage  
>  
>  
>  
> compile_opt idl2  
>  
>  
>  
> catch, error  
>  
> if error ne 0 then begin  
>  
>   !null = dialog_message('Try again, we found problems')  
>  
>   return  
>  
> endif  
>  
>  
>  
> ;Find all the .dat files in that folder  
>
```

```
>
>
> Thesefiles=file_search('C:\Anomalies\*.dat',count=numfiles)
>
> Print, 'Number of Files:', numFiles
>
>
>
> FOR i=0,numFiles-1 DO BEGIN
>
>   OpenR, lun, theseFiles[i], /Get_Lun
>
>   File = fltarr(620, 500)
>
>   ReadU, lun, File
>
>   Free_Lun, lun
>
>
>
>   Pfile = Image(File,/CURRENT, LAYOUT=[[7,1,1],[7,1,2],[7,1,3], [7,1,4], [7,1,5], [7,1,6],
[7,1,7]], $
>
>   MARGIN=[?, ?, ?, ?])
>
>   POSITION= ??
>
>
>
>   free_lun, lun
>
>
>
>   ENDFOR
>
> END
```
