
Subject: Re: Using !P.Multi for TVSCL,CONGRID
Posted by [mperrin+news](#) on Wed, 10 Nov 2004 01:57:13 GMT
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Roy <roberson_1@yahoo.com> wrote:
> Is there a way to use !P.Multi plot using
> TVSCL,CONGRID(data,400,400)?
> I know !P.Multi works for other plot commands but I'm not able to use
> congrid on !P.Multi.

The solution is to use a more intelligent plotting routine than just TVSCL. I like Liam Gumley's IMDISP, but other routines such as David Fanning's TVIMAGE or Fen Tamanaha's DISPLAY also work.

- Marshall

Subject: Re: Using !P.Multi for TVSCL,CONGRID
Posted by [Liam Gumley](#) on Wed, 10 Nov 2004 15:06:15 GMT
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Marshall Perrin wrote:
> Roy <roberson_1@yahoo.com> wrote:
>
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>> I know !P.Multi works for other plot commands but I'm not able to use
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> The solution is to use a more intelligent plotting routine than just
> TVSCL. I like Liam Gumley's IMDISP, but other routines such as
> David Fanning's TVIMAGE or Fen Tamanaha's DISPLAY also work.
>
> - Marshall

I'll second that. You can find IMDISP at

http://www.gumley.com/PIP/Free_Software.html

Here's how to use it:

```
p.multi = [0, 2, 2, 0, 0]  
imdisp, dist(8)  
imdisp, dist(32)  
imdisp, dist(64)  
imdisp, dist(256)
```

Note that IMDISP automatically byte-scales the image, just like TVSCL.

Cheers,
Liam.
Practical IDL Programming
<http://www.gumley.com/>

Subject: Using !P.Multi for TVSCL,CONGRID
Posted by [Ertel, KG \(Klaus\)](#) on Thu, 18 Nov 2004 09:05:41 GMT
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Hello!

My solution would be to create a plot (using PLOT or CONTOUR) and then place the colormap into it. I think this is also explained somewhere in the IDL manuals. This way you also have axes around your plot. Example:

```
CONTOUR, data, x, y, XSTYLE = 1, YSTYLE = 1, /NODATA
```

```
PX = !X.WINDOW * !D.X_VSIZE
```

```
PY = !Y.WINDOW * !D.Y_VSIZE
```

```
SX = PX[1] - PX[0] + 1
```

```
SY = PY[1] - PY[0] + 1
```

```
if !D.NAME eq 'PS' then begin
```

```
    tvscl, data, px[0], py[0], xsize = sx ,ysize = sy
```

```
endif else begin
```

```
    tvscl, congrid(data,SX,SY),PX[0],PY[0]
```

```
endelse
```

Note the difference between PS output where you have scalable pixels and other devices where you scale the number of pixels. Besides, I wouldn't use !P.Multi but the POSITION keyword to place your plots (with /NOERASE for the second and subsequent plots on the page). This gives you much better control over the positioning of the plots. Hope this helps...

Klaus

-----Original Message-----

From: roberson_1@yahoo.com (Roy) [mailto:roberson_1@yahoo.com]

Posted At: 10 November 2004 01:42

Posted To: [comp.lang.idl-pvwave](#)

Conversation: Using !P.Multi for TVSCL,CONGRID

Subject: Using !P.Multi for TVSCL,CONGRID

Is there a way to use !P.Multi plot using
TVSCL,CONGRID(data,400,400)?

I know !P.Multi works for other plot commands but I'm not able to use
congrid on !P.Multi.

Thanks,
Lee

Subject: Re: Using !P.Multi for TVSCL,CONGRID

Posted by [David Fanning](#) on Thu, 18 Nov 2004 18:50:11 GMT

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Lee writes:

> Is there a way to use !P.Multi plot using
> TVSCL,CONGRID(data,400,400)?
> I know !P.Multi works for other plot commands but I'm not able to use
> congrid on !P.Multi.

No, get one of the smart TV commands: TVImage, ImgDist, PlotImage, etc.

Cheers,

David

--

David W. Fanning, Ph.D.

Fanning Software Consulting, Inc.

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

Phone: 970-221-0438, IDL Book Orders: 1-888-461-0155
