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Subject: Re: Multiple Postscript Shaded Surface Plots  
Posted by [Arno F. Granados](#) on Mon, 11 Nov 1996 08:00:00 GMT  
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Walid Atia <atia@wam.umd.edu> wrote:

> Hi,  
>  
> I've been having a bit of trouble getting multiple shaded surface plots  
> on a page. I tried using the !P.MULTI variable, but then the shaded  
> surface plots come out warped (they seem to be elongated in the  
> horizontal direction). Is there any way to draw multiple shaded surface  
> plots on a page using the postscript device while maintaining the  
> correct aspect ratio?

You can explicitly specify the page location of each plot using the  
position Keyword in the call to plot. Set the !p.multi, and then  
use something like:

```
plot,y,position=[1000,1000,6000,6000],/device
```

This will use the Postscript device coordinates (1000 units = 1cm on the page).  
The lower left corner is 0,0 and the 4 elements of the array in position are  
x0,y0,x1,y1 This allows for very precise control of the plot positioning and  
aspect ratio.

> Also, is it possible to write a tiff image of a  
> shaded surface (tiff\_write is only for tv images)?

If all else fail, you should be able to display the plot on the screen,  
and then do a tvrd() call, you can then write the saved array to  
a tiff image file.

Hope this helps.

-Arno  
granados@possys.com

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Subject: Re: Multiple Postscript Shaded Surface Plots  
Posted by [Robert Moss](#) on Mon, 11 Nov 1996 08:00:00 GMT  
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> correct aspect ratio? Also, is it possible to write a tiff image of a  
> shaded surface (tiff\_write is only for tv images)?  
>  
> Thanks,  
>  
> Walid

I suggest trying the Z-buffer for the solution to both your problems.  
You can set its resolution to whatever you need, draw your shaded  
surface plot, read the plot using TVRD, then change to the PS device  
and use TV with the XSIZE and YSIZE keywords to scale it just the  
size and aspect ratio you want. You can also use TIFF\_WRITE for the  
image you took from the Z buffer as well.

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Robert M. Moss, Ph.D. - [mossrm@texaco.com](mailto:mossrm@texaco.com) - FAX (713)954-6911

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