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Subject: tvimage followed by contour in ps... positioning not coming out right  
Posted by [Turamarth](#) on Tue, 13 Sep 2005 19:13:52 GMT

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My question has to do with using tvimage from the programming library at [www.dfanning.com](http://www.dfanning.com). I am using it to plot an image in a postscript file and then I use contour - overplotting on top of that image. I am making multiple plots on one page so I have set the !P.multi variable. Simply put my code is (I can give the full code if necessary):

```
set_plot, 'ps'  
DEVICE, FILENAME = pathname + 'VelContours.ps', /color,  
BITS=8,xsize=7,ysize=10,/inches,$  
    ENCAPSULATED = 0, /portrait, XOFFSET = 1, YOFFSET = 1  
!P.Multi = [0,2,4]
```

```
TVSCALE, image, /keep_aspect_ratio, position = get_position  
contour, arr, /noerase, position = get_position,c_colors = color, $  
level = levelset
```

Well, as I understood it, this was supposed to overplot a contour exactly on top of my image. It does not do this, the contour instead plots with a different aspect ratio than the image, such that the two sides and bottom all mach up, but the contour is short of the top!

I thought it might have something to do with this line in TVIMAGE:

```
xsize = (position(2) - position(0)) * !D.X_VSIZE  
ysize = (position(3) - position(1)) * !D.Y_VSIZE  
xstart = position(0) * !D.X_VSIZE  
ystart = position(1) * !D.Y_VSIZE
```

as the ratio that it was off was exactly (!D.Y\_VSIZE/float(!D.X\_VSIZE)). But that is only true for the first image that is plotted! After the first plot the ratio was different.. although I have not really looked into THAT much yet.

This all seems very strange to me. Is tvimage supposed to work like I think it should, or am I using it wrong?

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