Subject: positioning a TV image within plotting region
Posted by Matthew on Thu, 29 Sep 2011 13:50:43 GMT
View Forum Message <> Reply to Message

I am writing a program in which I need to display an image within a set of axes (frequency vs. time with electric field power spectral density in color). The problem is that, while the position keyword specifies the lower left corner of the plotting region, the plot procedure draws the x and y axes on the inside of this space. So, when I plot my image using the same position that I supplied to the plotting routine, the image covers the x and y axes -- it is drawn on starting on the outer corner of the axes, not on the inner corner.

This would be fine if the axes had a fixed width, but they do not. If I reposition or resize the plot, the axis width changes and the image does not fit snugly within the axes. Is there a trick to get around this?

This happens no matter what coordinates I am using (device, normal, ...). I already know about TVIMAGE and IMDISP, but want to be able to fix the problem myself.

```
position = [x0, y0, x1, y1]      ;position in normal coordinates
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

loadct, 13
plot, time, freq, position=position, /normal, /nodata, /noerase
tvscl, congrid(alog(transpose(E_pwr_dens)), xsize, ysize), xstart,
ystart
```