Subject: Re: 3-D & 2-D plots simultaniously
Posted by landers on Fri, 13 Aug 1993 22:25:56 GMT

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In article <24e098$hrn@senator-bedfellow.MIT.EDU>,
       jabarone@athena.mit.edu (John A Barone) writes:
|> Hi,
|>
|> I've been trying to plot a 3-D image and two 2-D images in
|> the same plot window. These images are the surface plotted from
|> arrays z, x, y and the 2-D plots of x vs z and y vs z. I do this
|> by first plotting the surface plot using the save keyword and then
|> excanging the axis and using plot with the T3D and NOERASE keywords
|> set for the other two plots.
|>
      [munched example and other stuff ...]
|>

Try something more like this:

```
a = shift(dist(15), 5, 5)
a = exp(-(a/4)^2)

surface, a, /save, charsize = 2, title = "Surface"

; make the x and y coordinate arrays:

x = indgen(15) # replicate(1,15)
y = replicate(1,15) # indgen(15)

; a dummy array for the 'squashed' axis
dummy = replicate( 0., 225 )

plots, x, dummy, a, /t3d, psym = 2

plots, dummy, y, a, /t3d, psym = 4

;  This will be just like what you want, except for one plot axis
; you may not really want it, but:

axis, !x.crange(0), !y.crange(0), !z.crange(0), /zaxis, /t3d

; Now the only other missing things are the two side plot titles, which
;  you can add with xyouts....

xyouts, avg(!x.crange), !y.crange(0), z=!z.crange(1), 'Z vs X Plot', $
    /t3d, text_axes=1, charsize=2, align=0.5
```

```
xyouts, !x.crange(0), avg(!y.crange), z=!z.crange(1), 'Z vs Y Plot', $
     /t3d, text_axes=5, orient=-90, charsize=2, align=0.5

; Now if you want to put this on a partial page, just use !p.multi
;  or !p.position to slide the things around....
```

DISCLAIMER: I use PV-WAVE, I don't know if you're using WAVE or IDL
(you didn't say). I don't know enough about the differences between
WAVE and IDL to know if all this will work. It works for me in WAVE.