Subject: Re: projecting a PLOT onto wall of SURACE
Posted by Jaco van Gorkom on Mon, 13 Nov 2000 08:00:00 GMT
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With a little help from the t3d procedure:
surface, your_data, /save
    ; saves it's transformation matrix to !p.t
t3d, /yzexch
    ; exchanges the y and z axes of the transformation
plot, your_subset, /t3d, /noerase, zvalue=1
    ; 1 should be the "back wall"

I cannot get the plot axes to overlap exactly with the surface axes,
somehow. But I could move it around using the "position" keyword.
I personally find the page titled "Three-Dimensional Graphics" in the (5.3)
online help rather useful. It comes with an example of how the surface
routine uses t3d.

Cheers,
  Jaco

"Andrew" <noymer@my-deja.com> wrote in message
news:8uobgl$dt1$1@nnrp1.deja.com...
> Dear C.l.i-p,
>
>   I'm using 5.3 Direct Graphics to plot a SURFACE.
> On this, I superimpose (in a blank region!!) a 2-D PLOT
> that clarifies one covered-up aspect of the surface.
>
>   It's a little bit cluttered, but not half as bad
> as it sounds, and I have a constraint on number of figs
> I can include with the article.
>
>   It would look slightly better if I could /T3D the
> PLOT such that it lies in the XZ plane in the "back" of
> the surface. Things would just "line up" better visually
> if I could rotrate the supplementary plot. How to do this?
> Just doing /T3D makes the graph wind up IN the XY plane of
> the surface, which doesn't work.
>
>   If this does not make any sense, then another way
> to explain what I want is to compare it to the CONTOURS lying
> above or below a SURFACE, which we see in so many examples
> (e.g. David's book, or "Using IDL"), except that I want
> the graph to lie in the BACK XZ plane, not the top XY plane,
> and in addition what I want to plot is not a contour but
> some other data. In fact all I want is the proper projection
> matrices to use with /T3d, because I specifically DON'T

> want the graph to take up the entire back panel --- I already
> have it sized OK I just need to get a way to get the right
> matrix.
>
> TIA,
> Andrew
>
>
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