Subject: Re: isotropic keyword for surface?
Posted by David Fanning on Thu, 23 Sep 2010 13:17:41 GMT
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anand writes:

- > I am using the SURFACE procedure to define the axes. I want to plot a
- > unit sphere, and an array of data points. I am faced with two issues,
- > which although are not stopping me from going ahead with my task, are
- > important if I have to make the plot look neat.

>

- > 1) Like the ISOTROPIC keyword for PLOT command, is there a
- > corresponding command for SURFACE that would force equal scaling for
- > all the 3 axes? This is really necessary, because otherwise the sphere
- > of unit radius extends well beyond 1.0 along at least 2 axes at a
- > time. More importantly, is it just an issue with the scaling, or am I
- > missing something here.

I think what you are probably missing is that in direct graphics you are dealing with a 2.5D system, not a true 3D system. In other words, the deck has been stacked completely against you.

To do this correctly, you probably want to work in the object graphics system, which is a true 3D system.

I don't have time to put an example together this morning, but if I were going to do it, I would use simple_surface and the orb object that you can find somewhere in the IDL distribution (orb__define.pro) to do it.

http://www.dfanning.com/simple_surface.pro

It will be very easy to create a unit cube data space in object graphics.

Cheers,

David

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Sepore ma de ni thui. ("Perhaps thou speakest truth.")

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