
Subject: Re: Polar to spherical coordinates

Posted by [davidf](#) on Mon, 24 Apr 2000 07:00:00 GMT

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Patrick V. Ford (pford@bcm.tmc.edu) writes:

> I have a problem that is screaming at me that there must be a simpler
> solution in IDL than I have devised. I am attempting to relearn IDL,
> after months of being away from it, and the math after decades from it and
> I have not found a built-in procedure that does the trick.
>
> The problem in its, simplest form, is that I want to take a 2-D polar
> plot and transform it into a 3-D hemisphere and vice versa. More
> accurately, a polar plot to a 3-D hemi-ellipsoid with varying axes and
> thickness, i.e. more than just a surface plot. The manner that I am
> thinking how to do this is to sample the polar plot along its radius and
> map it to the hemisphere(with for loops). It seems to me that this is
> likely common in IDL to map from polar to spherical coordinates and to
> warp shapes. Since I don't wish to reinvent the wheel, and not a good
> wheel at that, I would appreciate being pointed in the right direction.

I'd start by trying to use CV_COORD to map from polar to
spherical coordinates.

Cheers,

David

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