Subject: Re: polar surface plots
Posted by Mike Mayer on Mon, 26 Feb 1996 08:00:00 GMT
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## Sean Oughton wrote:

```
> For 1-d data you can do a
> plot, /polar, r, theta
> Is there a similar trick for
> surface, /polar, f(i,j), r, theta
> ?
> Checked the help, but can't see anything.
> If not, has anyone got a .pro available which will do the necessary
> interpolation onto a Cartesian grid?
```

Sean,

Not sure if you are using IDL or PV-WAVE. If PV-WAVE, check out the routines CONV\_TO\_RECT and CONV\_FROM\_RECT. They allow you to convert back and forth between cartesian, spherical, polar, and cylindrical coordinates. For doing spherical surfaces, you could convert to cartesian and do a regular surface plot, similar to your example above (except that the lines will still be drawn rectilinearly insted of radially/concentrically).

Some of WAVE's advanced rendering techniques let you render a spherical surface, from spherical data. Check out POLY\_SPHERE GRID\_SPHERE, POLYSHADE, SPHERE, and RENDER. There are several useful related routines, but these should get you started.

I hope this helps.

Mike

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