Subject: Spherical gridding at a pole
Posted by ECSPRS on Tue, 25 Jul 1995 07:00:00 GMT
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Hi.
I'm having some problems with the TRIANGULATE function when trying to grid some irregular data over the south pole. I have data points defined for each hour of the day (hence each 15 deg in longitude) and for latitudes -90 to -50. So the data looks like the spokes of a wheel radiating out from the pole. Now I wanted to grid this and make a contour plot on top of a map of Antarctica so I used the spherical implementation of TRIANGULATE vis;

```
TRIANGULATE,lon,lat,tr,SPHERE=s,FVALUE=epot,/DEGREES
```

Where lon, lat and epot are vector arrays of longitude, latitude and data. This statement causes either IDL to crash or Windows to crash (wow...how surprising). Any ideas? It just occured to me that the point -90 latitude will appear 24 times in the array, once for each longitude. Would this help mess things up? (I'll try taking the extra ones out out but I'd rather send this first before disaster strikes).

I also noticed that while in the doco the GS, Limits parameters are in brackets as optional for TRIGRID (spherical gridding mode), the command won't work unless you put them in there.

I'm using IDL 4.0
Cheers,
Paul