Subject: Re: The best way to bin data to a grid? (may not be an IDL-specific question)
Posted by Fabzou on Mon, 12 Dec 2011 10:34:55 GMT
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> In all seriousness though, would routines like GRIDDATA, TRIGRID, etc
> break down for such a large input?

Well, I am not very familiar with GRIDDATA but 1500000 points is not so large.

It not difficult to find out. It mostly depends on your available memory, but it seems allright. IDL is just not very very fast. If you have to do it many times, that's maybe not the best tool for it...

```
n = 1500000L
lons = Scale_Vector(RANDOMU(seed, n), -180., 180)
lats = Scale_Vector(RANDOMU(seed, n), -90., 90.)
TRIANGULATE, lons, lats, Triangles
data = FLTARR(n)
out = GRIDDATA(lons, lats, data, $
  START=[0.05D,0.05D], DIMENSION=[3600,1800], DELTA=[0.1D,0.1D],$
  TRIANGLES=triangles, /NEAREST_NEIGHBOR)
```