Subject: Re: Display radar data?
Posted by Kenneth P. Bowman on Wed, 08 Oct 2008 14:59:04 GMT

In article <MPG.2356726dd34c2ea398a4bd@news.giganews.com>,
 David Fanning <news@dfanning.com> wrote:

> Dave writes:
>
>>   I have some weather radar data, whose coordinates are distances
>> (kilometers) and angles to the radar station. So how can I convert
>> these local coordinates to longitude/latitude cordinates? Please give
>> any clue.
>
> Set up a map projection of the area of interest with MAP_SET
> or MAP_PROJ_INIT. Then use CV_COORD to convert your data
> from polar coordinates to rectangular coordinates (which
> will be the data or lat/lon coordinates, in this case).
>
> Cheers,
>
> David

I think LL_ARC_DISTANCE is a lot easier and the source code is available.

LL_ARC_DISTANCE could be improved by making it handle double precision
inputs better (!DTOR is single precision), by replacing the awkward WHILE loops
with MOD operations, and by vectorizing it.

Ken