Subject: Re: Rect 2 Polar Conversion
Posted by candey on Sat, 17 Sep 1994 00:37:36 GMT
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In article <gasster-160994124748@spdmac.aero.org>,
gasster@courier6.aero.org (Dr. Samuel Gasster) wrote:

> I was wondering if anyone has already written an IDL routine to
> do the following:
>
> given the 2D array z(x,y) and the x and y vectors on a uniform
> rectangular grid, map this to a uniform polar grid giving
>
> z(r, theta) plus the corresponding uniformly spaced r and theta vectors.
>
> If you've already done this it would save me (and others) time.
> Thanks.
>
> --
> Dr. Samuel Gasster
> gasster@courier6.aero.org
> 8-)

Paul Ricchiazzi of Earth Space Research Group, UCSB wrote a nice polar
plot routine in October 1992.

It can be found in IDL_DIR:[USER_CONTRIB.ESRG_UCSB]ESRG_UCSB.TLB (and its
Unix equivalent, I assume): TV_POLAR.PRO. I made two changes:
In TV_POLAR.PRO

```
   ;pp(ii)=180+atan(yy(ii),-xx(ii))/!dtor     ; azimuth angle array
   pp(ii)=180-atan(yy(ii),-xx(ii))/!dtor     ; azimuth angle array
```

In TVIM.PRO

```
   aa=a ; and passed in my own byte array
   ;aa=(max_color-1)*((float(a)-range(0))/(range(1)-range(0)) > 0. < 1.)
```

_____
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