
Subject: Re: Mapping image into a polar-square coordinate

Posted by [pgrigis](#) on Wed, 09 Jul 2008 13:29:21 GMT

[View Forum Message](#) <> [Reply to Message](#)

I suggest using 2-dimensional interpolation (for instance, "bilinear") to interpolate x,y data to radius and angle. You only need to call it once, so it should be fast.

Ciao,
Paolo

cmejiapr...@gmail.com wrote:

```
> Hi programmers,
>
> I have an image and I want to map an annulus of it (matrix 981X 981)
> onto a rectangular axes whose columns are the angle, and the rows are
> the radius to the central pixel. I tried:
>
> ;data has the image
> xx1 = findgen(4096,10)*0.
> for i=0,1023 do begin
>   roll=i*360./4096.
>   SB=rot(data,-roll,1,490.5,490.5,cubic=-0.5,missing=-1,/pivot )
>   xx1[i,*]=SB[50:59,490]
>   for j=0,9 do xx1[i+2048,j]=SB[930-j,490]
>   xx1[i+3072,*]=SB[490,50:59]
>   for j=0,9 do xx1[i+1024,j]=SB[490,930-j]
> endfor
>
> But it takes too long to run, i need something faster. Any advise?
> Thanks
```
