
Subject: Re: More Kriging Problems

Posted by [David Fanning](#) on Thu, 17 Oct 2013 04:25:12 GMT

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Chris Torrence writes:

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> I think I see the problem. In my latest krig2d.pro code, I am incorrectly calculating the X and Y
> arrays for the /REGULAR grid case. Near the end of the code are the following lines:
>   xx = (SIZE(x, /N_DIM) eq 2) ? x : REBIN(TRANSPPOSE(x), nx, n)
>   yy = (SIZE(y, /N_DIM) eq 2) ? y : REBIN(TRANSPPOSE(y), nx, n)
>
> They should be:
>   xx = REBIN(REFORM(x, 1, n), nx, n)
>   yy = REBIN(REFORM(y, 1, n), nx, n)
>
> Do you want to make the changes to the code, and see what kind of results you get? Also, I
> would be curious as to your speed test results. I tried your cgkrig2d code, and it seemed about the
> same or maybe slightly slower. Finally, the cgkrig2d results didn't quite match what I was
> expecting. Here is the code I used:
> values = Dist(11)
> smdims = Size(values, /Dimension)
> sampled2 = cgKrig2d(values, findgen(smdims[0]), $
>   findgen(smdims[1]), /Regular, Spherical=[5.0, 0.0])
> sampled3 = Krig2d(values, findgen(smdims[0]), $
>   findgen(smdims[1]), /Regular, Spherical=[5.0, 0.0])
> s2 = surface(sampled2, window_title='cgKrig2D')
> s3 = surface(sampled3, window_title='new Krig2D')
>
> Note that the call to Krig2D is my latest fast code with the 2-line fix mentioned above.
```

Thanks, Chris. I'm bushed, but I'm notorious for not being a multi-tasker. I'm sure I'll be back at this first thing in the morning. I'll let you know what I find out. :-)

Cheers,

David

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David Fanning, Ph.D.

Fanning Software Consulting, Inc.

Coyote's Guide to IDL Programming: <http://www.idlcoyote.com/>

Sepore ma de ni thue. ("Perhaps thou speakest truth.")
