

---

Subject: Re: More Kriging Problems

Posted by [chris\\_torrence@NOSPAM](mailto:chris_torrence@NOSPAM) on Thu, 17 Oct 2013 04:22:31 GMT

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

---

Hi David,

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)
```

```
sampld2 = cgKrig2d(values, findgen(smdims[0]), $
```

```
  findgen(smdims[1]), /Regular, Spherical=[5.0, 0.0])
```

```
sampld3 = Krig2d(values, findgen(smdims[0]), $
```

```
  findgen(smdims[1]), /Regular, Spherical=[5.0, 0.0])
```

```
s2 = surface(sampld2, window_title='cgKrig2D')
```

```
s3 = surface(sampld3, window_title='new Krig2D')
```

Note that the call to Krig2D is my latest fast code with the 2-line fix mentioned above.

Thanks for catching this!

-Chris

VIS

---