Subject: Re: Problem with Trigrid Posted by davidf on Fri, 30 Apr 1999 07:00:00 GMT

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Di Li (di@astrosun.tn.cornell.edu) writes:

```
> My question is quite basic. I am sure someone has figured it out long ago.
```

- > Please give me a clue on this. Thanks!
- > I have three vectors of numbers, x,y, and z. Although they are regularly
- > spaced data points, z=z\_i(x\_i,y\_i) and the distance between x\_i and x\_i-1 is
- > constant, z cannot be used directly by CONTOUR or SURFACE.

>

- > The following works:
- > Contour, z,x,y,/irregular
- > or
- > Triangulate, x,y, tr
- > Contour, z,x,y,tr
- > .

>

- > But the following
- >
- > Triangulate x,y, tr
- > Contour, trigird(x,y,z,tr)
- > will lose the original coordinate. Say, the x should be [-30,30], but now it
- > is [0,50] (how many grid points are there). Other parameter setting like GS,
- > Limits, NX, will only affect grid points, but not being able to get back
- > original units.

You need to get the vectors that go with the data you are trying to contour from output keywords to the TriGrid command. Your code should look more like this:

```
Triangulate, x, y, tr
gridData = Trigrid(x, y, z, tr, XGrid=xgrid, YGrid=ygrid)
Contour, gridData, xgrid, ygrid
```

Cheers,

David

P.S. I looked this up in my book, because I couldn't remember how to do it either. :-)

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[Note: This follow-up was e-mailed to the cited author.]