
Subject: Re: Newbie question - showing grid
Posted by [davidf](#) on Tue, 03 Feb 1998 08:00:00 GMT
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Jeff (jeffe@fl.ensco.com) writes:

- > One item that some of my peers here want is the ability to
- > see the actual grid values.(i.e. a shaded representation is fine)
- > They like the contours but they would also like the ability to view
- > the raw regularly spaced grid or the points for the irregular
- > spaced grid.
- >
- > Are there any IDL functions that do this.
- > I would appreciate any pointers.

If I wanted to see a shaded surface representation of my data and I wanted to view the grid lines, I might draw the grid lines right on the shade plot, by doing something like this:

```
a=Shift(Dist(30), 20, 15)
peak = Exp(-(a/15)^2)
y = Findgen(30)
x = RandomU(seed, 30) * 30
x = x(Sort(x))
Shade_Surf, peak, x, y
Surface, peak, x, y, XStyle=4, YStyle=4, ZStyle=4, /NoErase
```

If I wanted to show the contours, but also put in the grid lines, I would have to go to a bit more trouble, because IDL only draws grid lines at tick locations. I could try something like this:

```
Contour, peak, x, y, /Follow, NLevels=12
FOR j=0, N_Elements(x)-1 DO PlotS, [x[j],x[j]], !Y.CRange, $
  LineStyle=2
```

Cheers,

David

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