Subject: Re: Showing the least-squares line through a set of x,y points Posted by bobbylough on Mon, 23 Feb 2009 17:55:17 GMT

View Forum Message <> Reply to Message

```
On Feb 22, 4:34 am, David Fanning <n...@dfanning.com> wrote:
> bobbylough writes:
>> I was wondering if it could be possible to plot the least-squares line
>> for a set of points on a 2D plot for a set of x,y points. This would
>> involve reading the set of points via a textfile initially and then
>> including additional syntax that would compute the "best-fit" line
>> (this is correctly called the line of least-squares) through these
>> points. I'm well capable of doing this in Excel but have had
>> difficulty tracking the correct commands in IDL. Many thanks for any
>> help you can give me on this problem.
 I would do something like this:
>
>
> IDL> x = indgen(20)
> IDL> y = 3*x + 5 + RandomU(-3L, 20) * 10
> IDL> plot, x, y, psym=2, symsize=2
> IDL> result = linfit(x, y, YFIT=yfit)
> IDL> oplot, x, yfit, thick=2
> Cheers,
> David
> David Fanning, Ph.D.
> Fanning Software Consulting, Inc.
> Coyote's Guide to IDL Programming:http://www.dfanning.com/
> Sepore ma de ni thui. ("Perhaps thou speakest truth.")
```

Thanks David, worked a treat!!

Robert.