Subject: Re: How to smooth lines in plots
Posted by David Fanning on Sat, 16 Nov 2002 15:28:20 GMT

Kolbjorn Bekkelund (kobe@rocketrange.no) writes:

> I have a xy plot where the curve is very "rough" due to variations in the
> x-value. To ease the view of this plot I would like to smoothen it a bit.
> To describe the problem a bit more: Look at it as a line with some
> modulation in it, and I only want to see the shape of the curve and not all
> the small deviations.
>
> The plot is being made from a 2D array. Are there any ways of smooting like
> this?

I think this might be a job for the SMOOTH function.
If your data is really noisy, you might have to apply
the function multiple times.

I can't tell from your description exactly how the
plot is being made, but you may want to smooth each
row (or column) or your 2D array individually. For
example:

    Plot, Smooth(array[3,*], 7, /Edge_Truncate)

Cheers,

David

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David W. Fanning, Ph.D.
Fanning Software Consulting, Inc.
Phone: 970-221-0438, E-mail: david@dfanning.com
Coyote's Guide to IDL Programming: http://www.dfanning.com/
Toll-Free IDL Book Orders: 1-888-461-0155

Subject: Re: How to smooth lines in plots
Posted by Kolbjorn Bekkelund on Sat, 16 Nov 2002 17:48:24 GMT

David Fanning wrote:

> Kolbjorn Bekkelund (kobe@rocketrange.no) writes:
>
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> example:
>
>   Plot, Smooth(array[3,*], 7, /Edge_Truncate)
>
> Cheers,
>
> David
>

Thanks David.
That did it !

Kolbjorn
--
Kolbjorn Bekkelund,
Systems Engineer, ALOMAR Observatory
Andoya Rocket Range
Email: kobe@rocketrange.no
http://alomar.rocketrange.no
Arctic Linux: http://arctic-linux.tnett.no

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"If I have been able to see further,
it was only because I stood on the shoulders of giants"
--
Sir Isaac Newton
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