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Subject: Re: how to smooth a data set with proper window  
Posted by [David Fanning](#) on Mon, 17 Sep 2012 02:09:24 GMT  
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Kris writes:

- > When I try to make the contour 'beautiful', I have to smooth the data set.
- > But I have two problems as follows:
- > 1) the smoothed data with SMOOTH function is different from
- > the origin one?

Yes, this is pretty much the point, I think. :-)

- > Does it make sense to create some data?

It makes sense to create new data if you only care about money and not your scientific reputation.

- > 2) the data smoothed with MIN\_CURVE\_SURF function dose not change very much, how to adjust the parameters?

Wait, first you complain about it changing too much. And now it doesn't change enough? Are you sure you understand what you are looking for? Have you tried the Goldilocks function?

Maybe your data isn't smooth. Maybe you just want to interpolate your data and make it larger in size, with more pixels with interpolated values between points. You could do this with the Congrid function with the INTERP keyword set.

Cheers,

David

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David Fanning, Ph.D.  
Fanning Software Consulting, Inc.  
Coyote's Guide to IDL Programming: <http://www.idlcoyote.com/>  
Sepore ma de ni thui. ("Perhaps thou speakest truth.")

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Subject: Re: how to smooth a data set with proper window  
Posted by [Kris](#) on Mon, 17 Sep 2012 13:41:51 GMT  
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I think we should make a balance between making up missing data and keeping truth.

Cheers

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Subject: Re: how to smooth a data set with proper window  
Posted by [David Fanning](#) on Mon, 17 Sep 2012 14:51:57 GMT  
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Kris writes:

> I think we should make a balance between making up missing data and keeping truth.

Yes, but I wonder if the "truth" we find in, say, a work of fiction, is the same as the "truth" we try to convey in science. Certainly, I appreciate and respect both. But, I think I would hold the scientist to a higher standard.

Cheers,

David

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