Subject: Re: regress

Posted by David Fanning on Wed, 18 Mar 2009 01:03:17 GMT

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## anniebryant@gmail.com writes:

- > I have two 2D arrays I would like to regress. Both were created with
- > the variance command and are intarr(673,274). Does one of these need
- > to be a vector? Both need to be a vector? If so, is there a way to
- > convert them from an array to a vector? I watched someone do this
- > very quickly yesterday, but can not remember how.

>

- > I thought this would be quite simple, but I haven't done a regression
- > in IDL before and am hoping I can figure it out.

OK, if you just want to do a linear fit through the data, I guess you can use REGRESS. I always have used LINFIT, but in a quick test case, they appear to return the same results.

You will have to reformat both your images into vectors. So, using LINFIT:

r = Linfit(Reform(d1, 673\*274), Reform(d2, 673\*274), YFIT=yfit Print, 'Slope: ', r[1], ' Intercept: ', r[0] Plot, Reform(d1, 673\*274), Reform(d2, 673\*274), PSYM=3 OPlot, Reform(d1, 673\*274), yfit

## Using REGRESS:

slope = Regress(Reform(d1, 673\*274), Reform(d2, 673\*274), \$ YFIT=yfit, CONST=intercept) Plot, Reform(d1, 673\*274), Reform(d2, 673\*274), PSYM=3 OPlot, Reform(d1, 673\*274), yfit

Cheers,

David

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Coyote's Guide to IDL Programming: http://www.dfanning.com/

Sepore ma de ni thui. ("Perhaps thou speakest truth.")