

---

Subject: Re: REGRESS Question

Posted by [William Clodius](#) on Thu, 05 Sep 2002 17:31:02 GMT

[View Forum Message](#) <> [Reply to Message](#)

---

David Fanning wrote:

> Folks,  
>  
> I have a client who has asked me to create a pixel density  
> function between two images and then perform a regression  
> analysis on the resulting distribution. No problem doing all  
> this, but she finds that the results of my regression analysis  
> differ from the same analysis performed in other statistics  
> packages. In fact, three different packages give the same  
> answer, and then there is IDL. :-(  
>  
> For example, if the other packages calculate a "goodness  
> of fit" of 0.95, IDL might report 0.97.  
>  
> Here is my question. Are there any known problems with REGRESS?  
> Or, can I assume that this problem comes from my own mathematical  
> ignorance?  
>  
> Cheers,  
>  
> David

<snip>

Almost any package can have problems, but the original REGRESS in Bevington has stood the test of time. IDL's version works for me, but it is possible that the introduced some problems. One thing that bothers me is tha 0.95 is to a good approximation  $0.97^2$ . Could you be fitting the square root of the customer's data.

---