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Subject: Re: About REGRESS.pro

Posted by [David Fanning](#) on Tue, 07 Mar 2006 16:54:48 GMT

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Daelomin writes:

- > I discovered the newsgroup existence from a post on David Fanning's
- > website. Thanks sir!
- >
- > I am working on a somewhat simple multi-linear regression problem from
- > brightness temperatures of a satellite to cloud liquid water.
- >
- > As I have started to investigate the REGRESS procedure in IDL, I just
- > realized that I don't quite know its code. Is it totally kosher by
- > Numerical Methods standards?
- >
- > Does anyone have another version that I could use to at least compare
- > the validity of outputs?

You are doubting IDL's results!? You, sir, are in the entirely wrong newsgroup. You want comp.lang.matlab. :-)

Cheers,

David

--

David Fanning, Ph.D.

Fanning Software Consulting, Inc.

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

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Subject: Re: About REGRESS.pro

Posted by [Daelomin](#) on Tue, 07 Mar 2006 17:06:43 GMT

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hehehe good one

Thing is, I have always been told to doubt before I have verified... ;)

I tend to try and keep to this rule, neverminding the extra load of work... :/

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Subject: Re: About REGRESS.pro

Posted by [K. Bowman](#) on Tue, 07 Mar 2006 17:44:08 GMT

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In article <1141751203.052652.161560@v46g2000cww.googlegroups.com>, "Daelomin" <joeypourriciel@gmail.com> wrote:

> hehehe good one  
>  
> Thing is, I have always been told to doubt before I have verified... ;)  
>  
> I tend to try and keep to this rule, neverminding the extra load of  
> work... :/

You could test REGRESS by giving it data for which you know the answer.

Ken

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Subject: Re: About REGRESS.pro  
Posted by [David Fanning](#) on Tue, 07 Mar 2006 18:13:52 GMT  
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Kenneth Bowman writes:

> You could test REGRESS by giving it data for which you know the answer.

Too simple. If it was me, and I knew the answer ahead of time, confirmation of the result wouldn't make me at all confident. I'd just assume they were making the same damn errors I'm making. :-(

Cheers,

David

--

David Fanning, Ph.D.  
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Subject: Re: About REGRESS.pro  
Posted by [Daelomin](#) on Tue, 07 Mar 2006 19:27:05 GMT  
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Well I know of at least the Numerical Recipes book which has the regression subroutine which could be tested from a Fortran program...

Is there a thread as to how one can call fortran from IDL? (I'll search !)

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Subject: Re: About REGRESS.pro

Posted by [Kenneth P. Bowman](#) on Wed, 08 Mar 2006 01:53:58 GMT

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In article <MPG.1e777b4ff5bfe993989bc4@news.frii.com>,  
David Fanning <davidf@dfanning.com> wrote:

> Kenneth Bowman writes:

>

>> You could test REGRESS by giving it data for which you know the answer.

>

> Too simple. If it was me, and I knew the answer ahead of time,

> confirmation of the result wouldn't make me at all confident.

> I'd just assume they were making the same damn errors I'm

> making. :-(

>

> Cheers,

>

> David

Well, here's a stochastic test. You could also try a problem with an analytical solution.

Ken

a0 = 1.0

b0 = 0.5

eps = 0.3

n = 1000

x = RANDOMN(seed, n)

y = a0 + b0\*x + eps\*RANDOMN(seed, n)

b = REGRESS(x, y, CONST = a, YFIT = yfit)

PLOT, x, y, PSYM = 1

OPLLOT, x, yfit, PSYM = -3

PRINT, a0, b0

PRINT, a, b

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Subject: Re: About REGRESS.pro

Posted by [Haje Korth](#) on Wed, 08 Mar 2006 12:59:51 GMT

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Examples are given in the external development guide, available as PDF on your IDL CD.

Haje

"Daelomin" <joey.pourriciel@gmail.com> wrote in message  
news:1141759625.468155.7310@j52g2000cwj.googlegroups.com...  
> Well I know of at least the Numerical Recipes book which has the  
> regression subroutine which could be tested from a Fortran program...  
>  
> Is there a thread as to how one can call fortran from IDL? (I'll search  
> !)  
>

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