Subject: Logistic model in COMFIT function
Posted by bedroom330 on Tue, 25 Oct 2016 20:37:19 GMT
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Hi,

I am currently using the logistic model in COMFIT. The results are good; however, when I read the equation IDL uses for logistic model, I got confused. The equation is: y=1/(a0a1^x+a2). I can not understand why a0 and a1 are necessary? They can be combined as one empirical parameter. How does each of the empirical parameter work in this IDL function?

If you can provide any thought, I will greatly appreciate.

Thank you.

Sincerely,
Nick

Subject: Re: Logistic model in COMFIT function
Posted by Dick Jackson on Wed, 26 Oct 2016 14:24:42 GMT
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On Tuesday, 25 October 2016 13:37:22 UTC-7, bedro...@gmail.com wrote:
> Hi,
>
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>
> If you can provide any thought, I will greatly appreciate.
>
> Thank you.
>
> Sincerely,
> Nick

Hi Nick,

To make that equation clearer, to show the order of operations when it is evaluated (exponents before multiplication), it could be written as:

```
y = 1 / ( ( a0 * (a1^x) ) + a2 )
```

Does that help to show how a0 and a1 are quite distinct?

Cheers,

-Dick

Dick Jackson Software Consulting Inc.
Victoria, BC, Canada --- http://www.d-jackson.com

Subject: Re: Logistic model in COMFIT function
Posted by dcleuclidwl on Wed, 26 Oct 2016 14:28:25 GMT
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Perhaps your confusion comes from not taking into account that exponents take precedence over multiplication?

So y=1/(a0a1^x+a2) is the same as y = 1/(a0*(a1^x) + a2)

On Tuesday, October 25, 2016 at 4:37:22 PM UTC-4, bedro...@gmail.com wrote:
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