
Subject: Curvefit issues

Posted by [vorticitywolfe](#) on Thu, 06 Apr 2006 22:16:30 GMT

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Hello,

I'm trying to fit a simple 1 parameter function to this data (see below A,B); however, I am getting an error message " % GFUNCT: Incorrect number of arguments." What's going on? It seems trivial, but I don't see where it is faltering. Thanks for the help!

Jon

```
,*****
```

```
pro test
```

```
A=[0.910000, 0.460000, 0.870000,0.740000]
```

```
B=[4.46684,1.99526,28.1838, 11.2202]
```

```
weights = A
```

```
weights(*) = 1.0
```

```
;Provide an initial guess of the function's parameters.
```

```
G = 300.0
```

```
;Compute the parameters.
```

```
fit = CURVEFIT(A, B, weights, G, FUNCTION_NAME='gfunct')
```

```
PRINT, 'Function parameters: ', G
```

```
END
```

```
PRO gfunct, A, G, F
```

```
  F = G * A^(2.0)
```

```
end
```

Subject: Re: Curvefit issues

Posted by [Benjamin Luethi](#) on Fri, 07 Apr 2006 07:51:44 GMT

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Hi,

CURVEFIT assumes that gfunct provides the derivative as well.

Either program it in gfunct or use CURVEFIT with the /NODERIVATIVE option.

Ben

On Fri, 07 Apr 2006 00:16:30 +0200, Jonathan Wolfe

<vorticitywolfe@gmail.com> wrote:

```
> Hello,
>
> I'm trying to fit a simple 1 parameter function to this data (see below
> A,B); however, I am getting an error message " % GFUNCT: Incorrect
> number of arguments." What's going on? It seems trivial, but I don't see
> where it is faltering. Thanks for the help!
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> Jon
> ,*****
> pro test
>
> A=[0.910000, 0.460000, 0.870000,0.740000]
> B=[4.46684,1.99526,28.1838, 11.2202]
>
> weights = A
> weights(*) = 1.0
>
> ;Provide an initial guess of the function's parameters.
> G = 300.0
>
> ;Compute the parameters.
> fit = CURVEFIT(A, B, weights, G, FUNCTION_NAME='gfunct')
>
> PRINT, 'Function parameters: ', G
> END
>
> PRO gfunct, A, G, F
> F = G * A^(2.0)
> end
>
```

```
--
-----+
```

Subject: Re: Curvefit issues

Posted by [vorticitywolfe](#) on Fri, 07 Apr 2006 16:23:27 GMT

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Thanks Ben,

The /noderivative worked. Wish the manual was a little more explicit on this function. Thanks again!

Jon

Subject: Re: Curvefit issues

Posted by [Craig Markwardt](#) on Fri, 07 Apr 2006 17:56:47 GMT

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"Jonathan Wolfe" <vorticitywolfe@gmail.com> writes:

> Thanks Ben,

>

> The /noderivative worked. Wish the manual was a little more explicit

> on this function. Thanks again!

Let me toot my own horn here and recommend that you give my MPFIT package a try. It's lots more robust than CURVEFIT. You can drop in MPCURVEFIT as a replacement for CURVEFIT, but there are other fit drivers too.

Craig

See <http://cow.physics.wisc.edu/~craigm/idl/>
under Curve Fitting

--

Craig B. Markwardt, Ph.D. EMAIL: craigmnet@REMOVEcow.physics.wisc.edu
Astrophysics, IDL, Finance, Derivatives | Remove "net" for better response
