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Subject: Re: regression with error bars

Posted by [Giuseppe Papa](#) on Sat, 22 May 2010 13:34:24 GMT

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Hello,

Thank you for your reply and examples. I am a newbie to IDL and I've never used MPFIT. I read the tutorial from this website:

<http://cow.physics.wisc.edu/~craigm/idl/mpfittut.html>

and I wrote a pro to fit a line to x and y if we had errors in y only (+/-):

pro test

```
xval = [1,2,3,4,5]
```

```
yval = [1.2,1.9, 3.1, 4.5, 5]
```

```
errval = [0.1,0.001,0.1,0.05,0.2]
```

```
expr = 'P[0]+P[1]*X' ;line y=A+Bx
```

```
result = MPFITEXPR(expr, xval, yval,errval)
```

```
plot, xval, yval, psym=2
```

```
oplot, xval, result[0]+result[1]*xval
```

```
l=linfit(xval, yval) ;no errors considered
```

```
oplot, xval, l[0]+l[1]*xval, linestyle=1
```

```
end
```

Are the error values (errval) used in this way in the function MPFITEXPR? And if not, after I calculate the residuals using your method, how do I feed it into the function MPFITFUN ?

Thank you!!

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frmsrcurl: <http://compgroups.net/comp.lang.idl-pvwave/regression-with-error-bars>

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