
Subject: help regarding curvefit

Posted by [Krishnakumar M.A](#) on Tue, 09 Dec 2014 06:56:28 GMT

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Hello All,

I am trying to use the curvefit algorithm in IDL for fitting my data with a function as given in the code below. It is peacefully fitting and giving me the result, but only one problem, it is doing only one iteration and giving the same A=[] value as the fitted result. I'm not able to figure out what went wrong, and I have used cuurvefit before and it worked well. Do anybody have any idea to solve this issue?

Any help is appreciated....

Thanks,
Krishnakumar

code:

```
RO gfunct, X, A, F, pder
```

```
F = sqrt(!dpi^5.0 * A[0]^3.0) / (8 * x^5.0)) * exp( - (!dpi^2 * A[0]) / (4*x)) * 180.0
```

```
IF N_PARAMS() GE 1 THEN $ ; calculate the partial derivatives.....
```

```
pder = [!dpi^5.0 * A[0] / (8*x^5.0) * exp(-!dpi^2.0 * A[0] / (4*x)) * 180.0* (1.5 - !dpi^2.0 * A[0]/ (4*x))]
```

```
END
```

```
openr,1,"data.dat"  
xpy=fltarr(3,301)  
readf,1,xpy  
x=reform(xpy[1,*])  
y=reform(xpy[2,*])
```

```
A=[100.0]
```

```
weights = 1.0/y^2.0
```

```
yfit=curvefit(x+10,y,weights,A,SIGMA,chisq=chisq,iter=it,function_name='gfunct')  
print,A,sigma,chisq,it  
close,1
```

```
plot,x,yfit  
oplot,x,y
```

end
