Subject: help regarding curvefit Posted by Krishnakumar M.A on Tue, 09 Dec 2014 06:56:28 GMT View Forum Message <> Reply to Message

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 curvefit 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,fun ction_name='gfunct') print,A,sigma,chisq,it close,1

plot,x,yfit oplot,x,y

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