Subject: Re: curvefit
Posted by kashyap on Mon, 13 Jun 2005 21:50:12 GMT
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In article <1118691431.765056.244800@f14g2000cwb.googlegroups.com>,
 <nolan.smith1@gmail.com> wrote:
> Hello,
>
> I am new in IDL and I am trying to fit my data (x,y coordinates) in a
> function of this form:
>
> y(x)=A/[(1+x/B)^1/2]^2
>
> so that I can calculate A and B.
>
> I have read the documentation but I am very confused as to how I should
> set up my function to use it at the curvefit.
> Could you please explain to me how to set up the function and how to
> use curvefit correctly?
>
> Thank you,
> Nolan Smith
>

Create a new procedure, say testfun.pro:

```
pro testfun,x,y,par,dfdpar
y=par[0]/((1+x/par[1])^(1./2.))^2
 ;question: why is this not y=par[0]/(1+x/par[1]) ?
dfdpar=fltarr(n_elements(x),2)
dfdpar[*,0]=y/par[0]
dfdpar[*,1]= {partial}y/{partial}B ..
 ;calculation left as an exercise for the reader!
return
end
```

and then call curvefit as
yfit=curvefit(x,y,weights,par,function_name='testfun')

vinay
--

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