Subject: Re: Linear fit with user defined weights Posted by wlandsman on Thu, 16 Jul 2009 19:04:56 GMT

View Forum Message <> Reply to Message

On Jul 16, 2:03 pm, loknath <ladhik...@gmail.com> wrote:

- > Hi,
- > Is there a way to calculate the best fit curve for linear fit with
- > user defined weights? I looked up linfit, but it does not take weight.
- > Ladfit also does not take user defined weights.

>

> thanks

Most of the IDL fitting routines (including LINFIT) use the MEASURE\_ERROR keyword to assign weights. Internally, the program then assigns a weight, wt for a given measurement error, sdev by the formula

 $wt = 1/sdev^2$ 

So you if have weights from some other origin besides measurement errors, you could set MEASURE\_ERROR = 1./sqrt(wt)

--Wayne

Subject: Re: Linear fit with user defined weights
Posted by Craig Markwardt on Sat, 18 Jul 2009 09:43:17 GMT
View Forum Message <> Reply to Message

On Jul 16, 2:03 pm, loknath <ladhik...@gmail.com> wrote:

- > Hi.
- > Is there a way to calculate the best fit curve for linear fit with
- > user defined weights? I looked up linfit, but it does not take weight.
- > Ladfit also does not take user defined weights.

Wayne's solution is a fine one. If you insist on using weights explicitly, you can use MPFITFUN() with the WEIGHTS= keyword. http://purl.com/net/mpfit

Happy fitting, Craig