
Subject: Re: non linear systems, mpfitexpr and functargs
Posted by [Craig Markwardt](#) on Sat, 03 Feb 2007 19:36:09 GMT
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"Elix" <elisa.costantini@gmail.com> writes:
> in this newsgroup I found the interesting option of solving non-linear
> systems using mpfitexpr. I need to use mpfitexpr with the functargs
> keyword, but apparently I'm doing something wrong here.
>
> stru={iref:iref,i2:i2}
> p1=[0.3,0.5]
> expr='[stru.iref-(1.-p[0])-p[0]*exp(-p[1]),'+\$
> 'stru.i2-(1.-p[0])-p[0]*exp(-p[1]*0.3)'
> p=mpfitexpr(expr,0,0,1,p1,functargs=stru)
>
> % MPFITEXPR: ERROR: execution of "[stru.iref-(1.-p[0])-p[0]*exp(-
> p[1]),stru.i2-(1.-p[0])-p[0]*exp(-p[1]*0.3)]" failed.

Just a follow-up to this. You *can* use functargs to mpfitexpr, as documented here:

; The most complicated optimization problems typically involve other
; external parameters, in addition to the fitted parameters. While
; it is extremely easy to rewrite an expression dynamically, in case
; one of the external parameters changes, the other possibility is to
; use the PRIVATE data structure.

Thus, you need to refer to your structure as PRIVATE, not stru.

Craig

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