
Subject: Re: MPFITFUN, constraining parameters
Posted by [Craig Markwardt](#) on Wed, 08 Feb 2006 16:56:52 GMT
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luxx11@gmail.com writes:

> Hi,
> I'm using Craig Markwardt's MPFITFUN to fit a function with 6
> parameters. I need that the product of parameter 2 with parameter 4
> stays below 1 ($P[2]*P[4]<1$).
> How can I do this? I think that it's not possible with the TIED
> keyword.

Parameter constraints need to be constant (i.e. a constant upper and/or lower bound).

Perhaps you can reparameterize your function so that the product you are interested in is an explicit parameter. Then you can set an upper bound of 1.

For example,
function myfunc, x, p
 p2 = p(2) ;; Original p(2) value
 p2p4 = p(4) ;; Product p(2)*p(4) value
 p4 = p2p4 / p2 ;; Original p(4) value
 ...
end

This might run into trouble if p(2) is near zero.

Good luck,
Craig

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