Subject: Re: FIT across images
Posted by Craig Markwardt on Sun, 12 Apr 2009 23:38:47 GMT
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On Apr 8, 8:23 am, bas.base...@virgilio.it wrote:
> Hi all,
> just to let you know, I now figured it out.
>
> I messed it up with
>
> a.   wrong dimensions of "F", which has to be the same as "fit"
> b.   bad use of the * "simple" matrix product.
>
> To simplify matrix products I reformed the S matrix as [n,size,size]
> to [n,m], where m=size*size, and so A to [3,m]. I then used the
> function
>
>   iv=replicate(1,(size(x,/dimensions))[0])
>   bx = EXP(-x#A[1,*])
>   F = (iv#A[0,*]) * bx + iv#A[2,*]
>
> where x is now [n] and F is [n,m]. The procedure
>
>   fit=mpcurvefit(x,dummyS,W,A,sigma,function_name='expmap',chi sq=chisq,/
> noderivative,/quiet)
>
> now works, with fit=[n,m], and produces the same results as the double
> forloop procedure does. The funny thing is: it is one hundred times
> slower. Maybe there is a lesson to learn here.

Yep, I would have done the fit with a FOR loop. :-)