Subject: Re: faster minimization needed - maybe mpfit?
Posted by rogass on Tue, 27 Mar 2012 12:28:02 GMT
View Forum Message <> Reply to Message

Hi Craig,
sorry I made several typos. I would also be satisfied with a least squares solution as you can see if you compare function test2 with the previous posts. The function I want to minimize is test2. It doesnt matter for me at this stage whether total(abs(resid)) or total(resid^2) is minimized.

```
function test2,p,xval=x,errval=err
resid=convol(x-rebin(p[*],size(x,/dim)),[-1.,0.,1.])
return,total(resid^2)
end

ENVI> help,im
IM              INT       = Array[512, 7237]
ENVI> sz=size(im,/dim)
ENVI>  im2=im+fix(1000.*rebin((((add=randomn(seed,sz[0])))-mean(add ))/
stddev(add),sz))
ENVI> help,im2
IM2             INT       = Array[512, 7237]
ENVI>  p0=((p0=total(im2,2)/float(sz[1])))-smooth(p0,3,/edge_trunc)
ENVI> help,p0
P0              FLOAT     = Array[512]
ENVI> st={x:im2,errval:sqrt(p0)}
 &res=mpfit('test2',p0,functargs=st,maxiter=100,status=st atus,errmsg=errmsg)
&print,status,string(10b),errmsg
          0
ERROR: number of parameters must not exceed data
```

THANKS in advance

CR