
Subject: Re: why is amoeba not working ??
Posted by wlandsman@jhu.edu on Wed, 18 Jul 2007 08:36:10 GMT
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"trex" <Terry.Suer@gmail.com> wrote in message
news:1184722537.753989.104610@d30g2000prg.googlegroups.com... .
> I am trying to do a image subtraction minimization using amoeba.
> When I try running the code below I get this error. Any ideas?

AMOEBA requires that the supplied function return a *scalar* value, whereas
your FUNC is returning an array the same size as the two images. You might
insert a TOTAL() into the last line of FUNC so that it returns a scalar,
e.g.

```
res = total( abs(s - xyshift( (i*q[2]), q[0], q[1])) )
```

though I think I would instead prefer to maximize the correlation
coefficient of the two images. --Wayne

```
>  
> REPLICATE: Expression must be a scalar in this context: <DOUBLE  
>      Array[201, 151].  
> % Execution halted at: AMOEBA      161 /opt/rsi/idl/lib/  
> amoeba.pro  
> %           $MAIN$      28 /home/idl/func.pro  
>  
>  
>  
>  
> FUNCTION FUNC,q  
>  
> i=mrdfits('/home/imcen.fits',/silent)  
> s=mrdfits('/home/spcen.fits',/silent)  
> res = s-xyshift((i*q[2]),q[0],q[1])  
>  
> return,res  
> END
```
