
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?

AMOEBEBA 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
