
Subject: Re: Optimization "AMOEBA"

Posted by [Wout De Nolf](#) on Wed, 23 Sep 2009 07:54:52 GMT

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On Tue, 22 Sep 2009 16:30:45 -0700 (PDT), Nicki

<nickireiter87@yahoo.de> wrote:

```
>
>
>> Set a breakpoint in your FUNC and check for NaN's. For example:
>> "a=NaN" when P=[0.5,30].
>
> But still... If I set my scale to let's say [0.5, 0.5] for [0.55, 60.]
> it should definitely work. however i get -0.2000 for P[0] which is not
> even in the set range for P[0] (it goes from 0.05 to 1 (see above))
> However I have no idea why... Somebody can help me out?
```

FUNC will still return NaN at some point! Add the following line to
FUNC to check it yourself:

```
FUNCTION FUNC, P
...
if ~finite(s) then stop
RETURN, -S
END
```

I see what your problem is now. The P0 and SCALE define an initial
simplex and by no means constraint the space in which the minimum
should lay. See: <http://www.nrbook.com/a/bookcpdf/c10-4.pdf>

Maybe you can do something like this when P gets out of its range:

```
FUNCTION FUNC, P
...
if ~finite(s) then return,!values.F_INFINITY
RETURN, -S
END
```

Does that work?
