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Subject: pass parameters to a function when calling BROYDEN or NEWTON routines

Posted by [Tasos](#) on Fri, 28 Jun 2013 14:12:16 GMT

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Hi there,

following the example in the BROYDEN reference page in IDL, I first determine the non-linear system of equations by creating a function which then is called by the BROYDEN function. The problem I am facing here is that I would like to pass parameters in the first function while calling the BROYDEN function.

For example:

first determine the equations

```
FUNCTION broydenfunc, X
```

```
...  
END
```

then call the broyden function

```
result = BROYDEN(X, 'broydenfunc')
```

So my question again is how I can pass parameters to the BROYDENFUNC function when calling the main BROYDEN function? I would like to keep the BROYDENFUNC in a loop where different parameters are passed every time.

Thanks in advance!

T

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Subject: Re: pass parameters to a function when calling BROYDEN or NEWTON routines

Posted by [Helder Marchetto](#) on Fri, 28 Jun 2013 14:22:09 GMT

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On Friday, June 28, 2013 4:12:16 PM UTC+2, tas....@gmail.com wrote:

> Hi there,

>

>

>

> following the example in the BROYDEN reference page in IDL, I first determine the non-linear system of equations by creating a function which then is called by the BROYDEN function. The problem I am facing here is that I would like to pass parameters in the first function while calling the BROYDEN function.

>

>

>

> For example:

```

>
>
>
> first determine the equations
>
> FUNCTION broydenfunc, X
>
> ...
>
> END
>
>
>
> then call the broyden function
>
> result = BROYDEN(X, 'broydenfunc')
>
>
>
> So my question again is how I can pass parameters to the BROYDENFUNC function when
calling the main BROYDEN function? I would like to keep the BROYDENFUNC in a loop where
different parameters are passed every time.
>
>
>
> Thanks in advance!
>
> T

```

With a common block?

```

FUNCTION broydenfunc, X
COMMON broydenfuncParams, p0, p1
...
END

```

and then call like this:

```

COMMON broydenfuncParams, p0, p1 ; this should be at the beginning
for i =0,9 do begin
  p0=i
  p1=i*2
  result = BROYDEN(X, 'broydenfunc')
endfor

```

Hope it helps,  
Helder

Subject: Re: pass parameters to a function when calling BROYDEN or NEWTON routines

Posted by [Kenneth Bowman](#) on Fri, 28 Jun 2013 14:22:45 GMT

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On 2013-06-28 14:12:16 +0000, tas.mrgns@gmail.com said:

> Hi there,  
>  
> following the example in the BROYDEN reference page in IDL, I first  
> determine the non-linear system of equations by creating a function  
> which then is called by the BROYDEN function. The problem I am facing  
> here is that I would like to pass parameters in the first function  
> while calling the BROYDEN function.  
> For example:  
>  
> first determine the equations  
> FUNCTION broydenfunc, X  
> ...  
> END  
> then call the broyden function  
> result = BROYDEN(X, 'broydenfunc')  
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> So my question again is how I can pass parameters to the BROYDENFUNC  
> function when calling the main BROYDEN function? I would like to keep  
> the BROYDENFUNC in a loop where different parameters are passed every  
> time.  
>  
> Thanks in advance!  
> T

The usual way to do this is through a common block.

Ken Bowman

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