
Subject: Re: convolution

Posted by [David Fanning](#) on Tue, 13 May 2008 02:31:34 GMT

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sarah writes:

```
> x=make_array(1024)
> sigma=15
> mu =15
> const=1/(sigma*sqrt(2*pi))
> for i = 0,1024 do x[i]= array[0,*]
> f= const*( EXP(-1.0*(x - mu)^2/(2*sigma^2)))
>
> z = convol(array,array2,/center)
> z = z*2
> print,f
> end
>
> here is the message I get:% Out of range subscript encountered: X.
> % Execution halted at: CONV1          29
> /Users/Dave/Desktop/conv1.pro
> %             $MAIN$
>
> I don't see why this doesn't work? I am very frustrated
```

The problem is on this line:

```
for I = 0,1024 do x[I]= array[0,*]
```

0 to 1024 is 1025 numbers. (Count them if you don't believe me.) But X is only big enough to hold 1024 numbers, so you are, uh, going out of its subscript range, as the error message suggests.

But this line of code is completely unnecessary. Simply typing this is enough:

```
x = Reform(array[0,*])
```

Cheers,

David

--

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Coyote's Guide to IDL Programming: <http://www.dfanning.com/>

Sepore ma de ni thui. ("Perhaps thou speakest truth.")
