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Subject: Re: How to use max() to plot where in the plot max is located ?

Posted by [David Fanning](#) on Thu, 22 Aug 2002 16:36:12 GMT

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Kolbjorn Bekkelund (kobe@rocketrange.no) writes:

> The file read in below contains 14 lines of header info read into the  
> header variable. Below these I've got about 1000 lines of 7 columns  
> floats. The snip of my program below plots the selected info in two curves  
> and adds info with xyouts about the max and min value of those. BUT; I  
> would like to add a sign or a vertical bar going through the point of  
> maximum.  
>  
> How do I do that ?

Use the second positional parameter to your MAX and MIN  
functions to get the indices where the maximum or  
minimum occurs:

```
min308=min(data(3,*), maxindex)  
max308=max(data(3,*), minindex)
```

Then, just draw some kind of symbol on your plot. Say,  
a big asterisk:

```
PLOTS,((data(3,*))[maxindex]/shots/0.0974),$  
      (data(2,*))[maxindex], color=166, PSYM=2, $  
      SYMSIZE=2.5
```

Cheers,

David

--

David W. Fanning, Ph.D.

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

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Subject: Re: How to use max() to plot where in the plot max is located ?

Posted by [Kolbjorn Bekkelund](#) on Thu, 22 Aug 2002 19:13:12 GMT

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Subject: Re: How to use max() to plot where in the plot max is located ?

Posted by [Paul Van Delst\[1\]](#) on Thu, 22 Aug 2002 20:09:32 GMT

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Kolbjorn Bekkelund wrote:

```
>
> Thanks David.
>
> It worked with a little twist:
>
> max308=max(data(3,*), maxindex)
> max353=max(data(3,*), maxindex)
```

From your previous code, I assume you meant:

```
max308=max(data(3,*), maxindex)
max353=max(data(5,*), maxindex)
```

but what if the maximum value for the different columns of data occurs at a different index? Shouldn't you do something like,

```
max308=max(data(3,*), max308index)
max353=max(data(5,*), max353index)
```

??

If not, why bother with returning maxindex for data(3,\*)?

me confuzzed.

paulv

--

Paul van Delst

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Beer is good.

My wife.

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Subject: Re: How to use max() to plot where in the plot max is located ?

Posted by [David Fanning](#) on Thu, 22 Aug 2002 20:57:33 GMT

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Paul van Delst (paul.vandelst@noaa.gov) writes:

```
> From your previous code, I assume you meant:
>
> max308=max(data(3,*), maxindex)
```

> max353=max(data(5,\*), maxindex)  
>  
> but what if the maximum value for the different columns of data occurs at a different  
> index? Shouldn't you do something like,  
>  
> max308=max(data(3,\*), max308index)  
> max353=max(data(5,\*), max353index)  
>  
> ??  
>  
> If not, why bother with returning maxindex for data(3,\*)?  
>  
> me confuzzed.

I was using \*pseudo\* code. That is meant to be confusing.  
But I find it cuts the future questions way down, so I  
can't afford to give it up. :-)

Cheers,

David

--

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Subject: Re: How to use max() to plot where in the plot max is located ?

Posted by [Paul Van Delst\[1\]](#) on Thu, 22 Aug 2002 22:07:21 GMT

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David Fanning wrote:

>  
> Paul van Delst (paul.vandelst@noaa.gov) writes:  
>  
>> From your previous code, I assume you meant:  
>>  
>> max308=max(data(3,\*), maxindex)  
>> max353=max(data(5,\*), maxindex)  
>>  
>> but what if the maximum value for the different columns of data occurs at a different  
>> index? Shouldn't you do something like,  
>>  
>> max308=max(data(3,\*), max308index)  
>> max353=max(data(5,\*), max353index)  
>>

>> ??  
>>  
>> If not, why bother with returning maxindex for data(3,\*)?  
>>  
>> me confuzzed.  
>  
> I was using \*pseudo\* code.

uh - yeah, umm, look closer. I wasn't replying to your post. I was replying to the OP's reply to your pseudo-code using reply. His "with-a-twist" solution was overwriting the same maxindex variable but for a different set of data.

> That is meant to be confusing.

I must have snipped the "Kolbjorn Bekkelund wrote:" part from my reply.

paulv

--

Paul van Delst  
CIMSS @ NOAA/NCEP/EMC      Beer is good.  
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Fax:(301)763-8545

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Subject: Re: How to use max() to plot where in the plot max is located ?  
Posted by [David Fanning](#) on Fri, 23 Aug 2002 01:51:40 GMT  
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Paul van Delst (paul.vandelst@noaa.gov) writes:

> uh - yeah, umm, look closer. I wasn't replying to your post. I was replying to the OP's  
> reply to your pseudo-code using reply.

Oh, oh. Sorry, Paul. I'm multi-tasking these days, with the start of tennis season. I must have had my mind on the 23 Freshmen and Sophomores on our team of thirty. :-(

I promise to read more closely this weekend. :-)

Cheers,

David

P.S. Let's just say my backhand doesn't look too bad, considering.

--

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