
Subject: Re: very simple Index question~~~help~~~
Posted by [David Fanning](#) on Tue, 16 Sep 2008 03:49:36 GMT
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xiao writes:

```
> I have a very simple question , I have an 178*300 array, I want to
> read it line by line like this :
>
> print,diff(53399)
> print,diff(178*299+177)      ;178*299+177=53399
>
> for i=0,177 do begin
>   diff2(i)= diff(178*299+i)
> endfor
>
>
> Why it always remind me that it out of range in the second print
> statement. I mean 178*299+177 s exactly equal to 53399.
```

IDL arrays are indexed starting from 0 and not 1. If you get to 53399, you have exceeded the bounds of the array, which go from index 0 to 53398.

Cheers,

David

--

David Fanning, Ph.D.

Fanning Software Consulting, Inc.

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

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

Subject: Re: very simple Index question~~~help~~~
Posted by [xiao zhang](#) on Tue, 16 Sep 2008 03:56:40 GMT
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On Sep 15, 10:49 pm, David Fanning <n...@dfanning.com> wrote:

```
> xiao writes:
>> I have a very simple question , I have an 178*300 array, I want to
>> read it line by line like this :
>>
>> print,diff(53399)
>> print,diff(178*299+177)      ;178*299+177=53399
>>
>> for i=0,177 do begin
>>   diff2(i)= diff(178*299+i)
```

>> endfor
>
>> Why it always remind me that it out of range in the second print
>> statement. I mean $178*299+177$ s exactly equal to 53399.
>
> IDL arrays are indexed starting from 0 and not 1. If you
> get to 53399, you have exceeded the bounds of the array,
> which go from index 0 to 53398.
>
> Cheers,
>
> David
> --
> David Fanning, Ph.D.
> Fanning Software Consulting, Inc.
> Coyote's Guide to IDL Programming:<http://www.dfanning.com/>
> Sepore ma de ni thui. ("Perhaps thou speakest truth.")

I think it is over floating.....How can I solve this?
TNX

Subject: Re: very simple Index question~~~help~~~
Posted by [David Fanning](#) on Tue, 16 Sep 2008 03:59:00 GMT
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xiao writes:

> I think it is over floating.....How can I solve this?

Try making your loop counter a LONG integer:

```
FOR j=0L, n DO ...
```

Or, even better, make **all** your integers LONG integers:

```
COMPILE_OPT defint32
```

Here is an article you probably ought to read:

http://www.dfanning.com/code_tips/mostcommon.html

Cheers,

David

--

David Fanning, Ph.D.
Fanning Software Consulting, Inc.

Subject: Re: very simple Index question~~~help~~~
Posted by [xiao zhang](#) on Tue, 16 Sep 2008 07:09:43 GMT
[View Forum Message](#) <> [Reply to Message](#)

On Sep 15, 10:59 pm, David Fanning <n...@dfanning.com> wrote:

> xiao writes:
>> I think it is over floating.....How can I solve this?
>
> Try making your loop counter a LONG integer:
>
> FOR j=0L, n DO ...
>
> Or, even better, make *all* your integers LONG integers:
>
> COMPILE_OPT defint32
>
> Here is an article you probably ought to read:
>
> http://www.dfanning.com/code_tips/mostcommon.html
>
> Cheers,
>
> David
> --
> David Fanning, Ph.D.
> Fanning Software Consulting, Inc.
> Coyote's Guide to IDL Programming:<http://www.dfanning.com/>
> Sepore ma de ni thui. ("Perhaps thou speakest truth.")

Thank you very much, David :)

Subject: Re: very simple Index question~~~help~~~
Posted by [Carsten Lechte](#) on Tue, 16 Sep 2008 08:22:26 GMT
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xiao wrote:
> I have a very simple question , I have an 178*300 array, I want to
> read it line by line like this :
>
> print,diff(53399)

This works, and this

```
> print,diff(178*299+177)      ;178*299+177=53399
```

does not? Try

```
PRINT, 178*299+177
```

and you will probably see a negative number.

Visit http://www.dfanning.com/code_tips/mostcommon.html and read "Problems Caused by Short Integers". Swearing is optional;-)

chl

Subject: Re: very simple Index question~~~help~~~
Posted by [xiao zhang](#) on Tue, 16 Sep 2008 15:54:59 GMT
[View Forum Message](#) <> [Reply to Message](#)

On Sep 16, 3:22 am, Carsten Lechte <c...@toppoint.de> wrote:

```
> xiao wrote:
```

```
>> I have a very simple question , I have an 178*300 array, I want to
```

```
>> read it line by line like this :
```

```
>
```

```
>> print,diff(53399)
```

```
>
```

```
> This works, and this
```

```
>
```

```
>> print,diff(178*299+177)      ;178*299+177=53399
```

```
>
```

```
> does not? Try
```

```
>
```

```
> PRINT, 178*299+177
```

```
>
```

```
> and you will probably see a negative number.
```

```
>
```

```
> Visithttp://www.dfanning.com/code\_tips/mostcommon.html and read
```

```
> "Problems Caused by Short Integers". Swearing is optional;-)
```

```
>
```

```
> chl
```

hmm...very smart :)

Subject: Re: very simple Index question~~~help~~~
Posted by [R.G. Stockwell](#) on Tue, 16 Sep 2008 16:35:00 GMT

"xiao" <littledddna@gmail.com> wrote in message
news:1e78d923-49cd-4480-978d-d742c71aa7ca@m45g2000hsb.google groups.com...
> I have a very simple question , I have an 178*300 array, I want to
> read it line by line like this :
>
> print,diff(53399)
> print,diff(178*299+177) ;178*299+177=53399

IDL> print,178*299+177

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