## 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 View Forum Message <> Reply to Message

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?

Subject: Re: very simple Index question~~~help~~~ Posted by David Fanning on Tue, 16 Sep 2008 03:59:00 GMT View Forum Message <> Reply to Message

xiao writes:

TNX

> 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

```
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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/
```

Subject: Re: very simple Index question~~~help~~~ Posted by Carsten Lechte on Tue, 16 Sep 2008 08:22:26 GMT View Forum Message <> Reply to Message

## xiao wrote:

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

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

> read it line by line like this:

Thank you very much, David:)

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

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

hmm...very smart:)