
Subject: Re: FOR LOOP problem

Posted by [David Fanning](#) on Fri, 31 May 2002 21:27:27 GMT

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Shravan Kumar Durvasula (skd6@ra.msstate.edu) writes:

> I am very much new to IDL. Could anyone please tell me what the problem is with
> this .pro file?

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> *****

```
> image = bytarr(462, 350)
> image_mod = bytarr(462, 350)
> openr, 1, FILEPATH(SUB=['examples','data'], '400_400_gb')
> readu, 1, image
> FOR i = 0, 461 DO BEGIN
>   FOR j = 0, 349 DO image_mod[i,j] = image[i,j]
> ENDFOR
> close, 1
```

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> It gives me the following error message :

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> % Attempt to subscript IMAGE with I is out of range.

> % Execution halted at: \$MAIN\$

> ENDFOR

> ^

> % Syntax error.

> At: D:\webpages\IONJava\examples\ndvi_pro.pro, Line 7

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IDL> .Run ndvi_pro
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I should point out that you can more easily do what you want to do (and a hell of lot faster!) by simply writing this:

```
image_mod = image
```

Cheers,

David

--

David W. Fanning, Ph.D.

Fanning Software Consulting

Phone: 970-221-0438, E-mail: david@dfanning.com

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

Toll-Free IDL Book Orders: 1-888-461-0155

Subject: Re: FOR LOOP problem

Posted by [Doug Rowland](#) on Fri, 31 May 2002 21:45:05 GMT

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What happens if the image you are reading in is only 400x400 bytes (as seems to be implied by the filename)?

Does readu then redefine image to be a 400x400 array or does it just leave the rest of the 462x350 array blank?

How about trying this:

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openr, 1, FILEPATH(SUB=['examples','data'], '400_400_gb')
readu, 1, image
print,size(image)
close,1
end
```

Doug Rowland

rowland@fields.space.umn.edu

On 05/31/02 4:27 PM, in article MPG.176198a6982878fc989905@news.frii.com, "David Fanning" <david@dfanning.com> wrote:

> Shravan Kumar Durvasula (skd6@ra.msstate.edu) writes:

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```

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> David

```

Subject: Re: FOR LOOP problem

Posted by nobody@nowhere.com (S on Fri, 31 May 2002 22:30:57 GMT

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On Fri, 31 May 2002 15:27:27 -0600, David Fanning <david@dfanning.com> wrote:

> Shravan Kumar Durvasula (skd6@ra.msstate.edu) writes:

>

<-----cut----->

>

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touche' ;^) !

> Cheers,
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> David
> --
> David W. Fanning, Ph.D.
> Fanning Software Consulting
> Phone: 970-221-0438, E-mail: david@dfanning.com
> Coyote's Guide to IDL Programming: <http://www.dfanning.com/>
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--
Steve S.

steve @ NOSPAM mailaps dot org
remove spaces, NOSPAM and replace dot for . before replying

Subject: Re: FOR LOOP problem
Posted by [R.Bauer](#) on Mon, 03 Jun 2002 06:54:15 GMT
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Doug Rowland wrote:

>
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> to be implied by the filename)?
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Dear Doug,

the rest 1700 bytes will be 0b and the size is (462, 350).
This gives no new information.

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First step could be to examine by fstat the byte size.
Then the data could be read as byte vector.

If you have an idea how it is organized you can use a reform
to put it in the correct size.

Reimar

```

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> print,size(image)
> close,1
> end
>
> Doug Rowland
> rowland@fields.space.umn.edu
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>>> close, 1
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>> David
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--

Reimar Bauer

Institut fuer Stratosphaerische Chemie (ICG-I)

Forschungszentrum Juelich

email: R.Bauer@fz-juelich.de

a IDL library at ForschungsZentrum Juelich

[http://www.fz-juelich.de/icg/icg1/idl_icglib/idl_lib_intro.h tml](http://www.fz-juelich.de/icg/icg1/idl_icglib/idl_lib_intro.html)

=====

Subject: Re: FOR LOOP problem

Posted by [skd6](#) on Tue, 04 Jun 2002 21:35:38 GMT

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Hi,

I am actually working on IONJava. I have a strange problem. This is the .pro file that i have written :

```
*****
band4_image = bytarr(420, 345)
band3_image = bytarr(420, 345)
final_image = bytarr(420, 345)
```

```

OPENR, 1, FILEPATH(SUB=['examples','data'], 'band_4')
OPENR, 2, FILEPATH(SUB=['examples','data'], 'band_3')
READU, 1, band4_image
READU, 2, band3_image
FOR i = 0,419 DO BEGIN
    FOR j = 0,344 DO final_image[i,j] = band4_image[i,j]
ENDFOR
CLOSE, 1
CLOSE, 2
TV, final_image
END
*****

```

When i compile and run this program from the IDL command prompt, it runs absolutely fine. But when i run this file through IONJava using the "executeIDLCommand()" (method in the IONGraphicsClient class of IONJava) it gives the following error message :

```

*****
% Attempt to subscript BAND3_IMAGE with I is out of range.
% Execution halted at: $MAIN$
ENDFOR
^
% Syntax error.
At: D:\webpages\IONJava\examples\ndvi_pro.pro, Line 10
END
^
% Syntax error.
At: D:\webpages\IONJava\examples\ndvi_pro.pro, Line 14
*****

```

I tried eliminating "ENDFOR" by modifying the code to :

```

*****
band4_image = bytarr(420, 345)
band3_image = bytarr(420, 345)
final_image = bytarr(420, 345)
OPENR, 1, FILEPATH(SUB=['examples','data'], 'band_4')
OPENR, 2, FILEPATH(SUB=['examples','data'], 'band_3')
READU, 1, band4_image
READU, 2, band3_image
FOR i = 0,419 DO FOR j = 0,344 DO final_image[i,j] = band4_image[i,j]
CLOSE, 1
CLOSE, 2
TV, final_image
END
*****

```

When i do that it says :

```
*****
END
^
% Syntax error.
At: D:\webpages\IONJava\examples\ndvi_pro.pro, Line 12
*****
```

I then removed END in the last line and tried running it again. It worked absolutely fine. I am not able to guess what the problem could be. I was wondering if it had anything to do with the indentation as it said Syntax error. But i could not correct it. Could anyone please help? Any suggestions given on this would be of great help to me.

Thanks,
Shravan Kumar Durvasula

David Fanning <david@dfanning.com> wrote in message
news:<MPG.176198a6982878fc989905@news.frii.com>...

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>> FOR i = 0, 461 DO BEGIN
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>> ENDFOR
>> close, 1
>> *****
>>
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>> It gives me the following error message :

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>> *****
>> % Attempt to subscript IMAGE with I is out of range.
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>> % Syntax error.
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> I should point out that you can more easily do what you
> want to do (and a hell of lot faster!) by simply writing this:
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Subject: Re: FOR LOOP problem
Posted by [Paul Sorenson](#) on Fri, 07 Jun 2002 18:11:05 GMT
[View Forum Message](#) <> [Reply to Message](#)

"Reimar Bauer" <r.bauer@fz-juelich.de> wrote in message
news:3CFB1297.BAC0ACAE@fz-juelich.de...

> Doug Rowland wrote:
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> First step could be to examine by fstat the byte size.
> Then the data could be read as byte vector.

You can do this with one command:

IDL> vector = read_binary()

> If you have an idea how it is organized you can use a reform

> to put it in the correct size.

You can read it and reform it in one command:

```
IDL> array = read_binary(data_dims=[400, 400])
```

-Paul Sorenson

>

> Reimar

>

>

>

>

>

>

>

>>

>> How about trying this:

>>

>> image = bytarr(462, 350)

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>> rowland@fields.space.umn.edu

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> Reimar Bauer
>
> Institut fuer Stratosphaerische Chemie (ICG-I)
> Forschungszentrum Juelich
> email: R.Bauer@fz-juelich.de
> -----
> a IDL library at ForschungsZentrum Juelich
> http://www.fz-juelich.de/icg/icg1/idl\_icglib/idl\_lib\_intro.h tml
> =====

```

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