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?
  > 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
 It gives me the following error message:
  % 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
```

I suspect the problem lies in how you are trying to run this program. I recommend you put another END at the end of the program file (after the CLOSE statement), then run it like this from the IDL command line:

IDL> .Run ndvi_pro

Does that work better? This will compile the code before it tries to run it. I think that will work better for you.

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:

```
image = bytarr(462, 350)
image_mod = bytarr(462, 350)
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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>> this .pro file? 
>> 
>> 
>> 
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>> readu, 1, image
```

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```
>> ENDFOR
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  IDL> .Run ndvi pro
  Does that work better? This will compile the code before
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  want to do (and a hell of lot faster!) by simply writing this:
>
  image mod = image
>
>
  Cheers,
> 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----->

> 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
> 
touche';^)!
> 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
--
Steve S.
steve @ NOSPAM mailaps dot org
```

Subject: Re: FOR LOOP problem

Posted by R.Bauer on Mon, 03 Jun 2002 06:54:15 GMT

remove spaces, NOSPAM and replace dot for . before replying

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Doug Rowland wrote:

>

- > 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?

Dear Doug,

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

It's not easy to examine the right size of a binary file. 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

```
> How about trying this:
> image = bytarr(462, 350)
> image mod = bytarr(462, 350)
> openr, 1, FILEPATH(SUB=['examples','data'], '400_400 qb')
> 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:
>>
>>> I am very much new to IDL. Could anyone please tell me what the problem is
>>> with
>>> this .pro file?
>>>
     >>> 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
>>>
>>>
>>> It gives me the following error message :
                       ******** **********
>>>
>>> % 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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>> I suspect the problem lies in how you are trying to
>> run this program. I recommend you put another END at the
>> end of the program file (after the CLOSE statement).
>> then run it like this from the IDL command line:
>>
    IDL> .Run ndvi_pro
>>
>>
>> Does that work better? This will compile the code before
>> it tries to run it. I think that will work better for you.
>>
>> 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
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
```

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 modiying 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
```

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>...
> Shravan Kumar Durvasula (skd6@ra.msstate.edu) writes:
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>> openr, 1, FILEPATH(SUB=['examples','data'], '400 400 qb')
>> 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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>> % Attempt to subscript IMAGE with I is out of range.
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> end of the program file (after the CLOSE statement),
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> Does that work better? This will compile the code before
> it tries to run it. I think that will work better for you.
>
> 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
```

Subject: Re: FOR LOOP problem
Posted by Paul Sorenson on Fri, 07 Jun 2002 18:11:05 GMT
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"Reimar Bauer" <r.bauer@fz-juelich.de> wrote in message news:3CFB1297.BAC0ACAE@fz-juelich.de... > Doug Rowland wrote: >> >> What happens if the image you are reading in is only 400x400 bytes (as >> 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? > > Dear Doug, > the rest 1700 bytes will be 0b and the size is (462, 350). > This gaves no new information. > > It's not easy to examine the right size of a binary file. > First step could be to examine by fstat the byte size.

You can do this with one command:

> Then the data could be read as byte vector.

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) >> image mod = bytarr(462, 350) >> 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: >>>> I am very much new to IDL. Could anyone please tell me what the problem is >>> with >>>> this .pro file? >>>> >>> 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

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FOR j = 0, 349 DO image_mod[i,j] = image[i,j]
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>>>
>>> Cheers,
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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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