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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  
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 gives 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.

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)
>> 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
>>>>     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
>
> --
> 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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