
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>...
> 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
```
