Subject: Re: FOR LOOP problem
Posted by skd6 on Wed, 05 Jun 2002 20:27:02 GMT
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Hi,

I think it is finally working. It all depends on the way you run it. I took the idea from David Fanning when he suggested to run the .pro file as
IDL> .Run ndvi_pro

Actually in IONJava the way we run it is like this :
 ********** ******
igclient.executeIDLCommand("@ndvi_pro.pro");
 ********** ******

where "igclient" is an "IONGraphicsClient" object. When i replaced this statement with :

 ********** *****
igclient.executeIDLCommand(".run ndvi_pro");
 ********** *****

it is working fine. Could anyone please tell what is the difference in runing a ndvi_pro.pro file in these two different ways :

@ndvi_pro.pro
.Run ndvi_pro

Thanks to all those who helped me solve the problem.

Best Regards,
SKD

Reimar Bauer <r.bauer@fz-juelich.de> wrote in message news:<3CFDB27C.7825A25A@fz-juelich.de>...
> Shravan Kumar Durvasula wrote:
>>
>> Hi,
>>
>> I am actually working on IONJava. I have a strange problem. This is
>> the .pro file that i have written :
>
> Dear Shravan
>
> are aou sure that it is really the same file for ion and idl?
>

> Reimar
>>
>> *** ********
>> 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
>> 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
>
> --
> 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
> == =======