Subject: Re: Problem with for-slope
Posted by peter.albert@gmx.de on Wed, 03 May 2006 11:20:25 GMT
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Hi Nexia,

> (nfiles_LM-1 = 17, nfiles_LM_oV=12
> time_LM_1h_oV=FLTARR(nfiles_LM_oV, 0.25*nline_LM+1)

given your code fragments, you set the first dimension of
"time_LM_1h_oV" to "nfiles_LM_oV" aka 12, while k loops up to
"nfiles_LM-1", aka 16. No wonder the error message. What is strange is
that you wrote that all works fine when looping over all files, but
well, I just doubt :-)

Regards,

Peter

Subject: Re: Problem with for-slope
Posted by Benjamin Luethi on Wed, 03 May 2006 11:41:38 GMT
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Hi,

You see the mistake right away if you put in k=17:
time_LM_1h_oV(17,l)= time_LM(17,i)
but you declared
time_LM_1h_oV=FLTARR(12, 0.25*nline_LM+1)

To solve this problem use
time_LM_1h_oV(k-5,l)= time_LM(k,i)
Or a lot better: let IDL do the work for you without any loops
(look up "subscript ranges" in the IDL help)
time_LM_1h_oV = time_LM[5:*,0:*:4]
t2m_LM_1h_oV = t2m_LM[5:*,0:*:4]
...

Ben

On Wed, 03 May 2006 09:52:43 +0200, Nexia <weckerb@uni-mainz.de> wrote:

> Hello,
>
> i´m pretty new to this group and in programming, so please excuse

> stupid questions of if something simliar has been asked yet.
>
> My programm is getting input from different files
>
> nfiles_LM=17
> file[0]=...
> ....
> file[16]=...
>
> the input is working quite well and doing a selection of several part
> of chosen values (for example, getting each fouth value in time for
> each file k) is working, too.
>
> My Problem: I want to make a choice of stations k (there is input from
> observational stations in the files) to bee used. I only need the last
> 12 files (k=5 to k=16 if I start counting from 0)
>
> FOR k=5, nfiles_LM-1 DO BEGIN ; take the last 12 files
>   l=0
>   FOR i=0,nline_LM-1, 4. DO BEGIN ; take only every 4th value
>   time_LM_1h_oV(k,l)= time_LM(k,i)
>   t2m_LM_1h_oV(k,l)= t2m_LM(k,i)
>   rh2m_LM_1h_oV(k,l) = rhum_LM(k,i)
>   td2m_LM_1h_oV(k,l) = td2m_LM(k,i)
>   q2m_LM_1h_oV(k,l) = QV_2M_LM(k,i)
>   pres_LM_1h_oV(k,l) = pres_LM(k,i)
>   wspeed_LM_1h_oV(k,l)=windspeed_10m_LM(k,i)
>   l=l+1
>   ENDFOR
> ENDFOR
>
> The declaration was made befor this slope....
> (nfiles_LM-1 = 17, nfiles_LM_oV=12
> time_LM_1h_oV=FLTARR(nfiles_LM_oV, 0.25*nline_LM+1) & t2m_LM_1h_oV =
> time_LM_1h_oV & pres_LM_1h_oV = time_LM_1h_oV & rh2m_LM_1h_oV =
> time_LM_1h_oV & td2m_LM_1h_oV = time_LM_1h_oV & q2m_LM_1h_oV =
> time_LM_1h_oV &wspeed_LM_1h_oV =time_LM_1h_oV)
>
> For this slope I get the error-code: Attempt to subscript TIME_LM_1H_OV
> with K is out of range.
>
> If I select the first 12 files (k=0, nfiles_LM-6) everything is working
> fine like if I take all files (k=0, nfiles_LM-1).
>
> Can anybody tell me, what´s the mistake if I start the slope at k=5?
>
>
> Nexia

>
> P.S.: Please excuse also my very poor english-skill
>

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Subject: Re: Problem with for-slope
Posted by Nexia on Thu, 04 May 2006 08:03:12 GMT
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Hi,

thanks a lot. The problem could be solved yesterday befor i read your answers this morning.

no the routine looks like this:

```
g=0
FOR k=5, nfiles_LM-1  DO BEGIN ; take the last 12 files
   l=0
   FOR i=0,nline_LM-1, 4. DO BEGIN ; take only every 4th value
      time_LM_1h_oV(g,l)= time_LM(k,i)
      t2m_LM_1h_oV(g,l)= t2m_LM(k,i)
      rh2m_LM_1h_oV(g,l) = rhum_LM(k,i)
      td2m_LM_1h_oV(g,l) = td2m_LM(k,i)
      q2m_LM_1h_oV(g,l) = QV_2M_LM(k,i)
      pres_LM_1h_oV(g,l) = pres_LM(k,i)
      wspeed_LM_1h_oV(g,l)=windspeed_10m_LM(k,i)
      l=l+1
   ENDFOR
g=g+1
ENDFOR
```

This isn´t the most elegant solution for sure, but it´s doing its job. But i will have a look at "subscript ranges" and the solution without loops. There are so many things to learn :-).

Thanks for your help.

Nexia

Subject: Re: Problem with for-slope

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thanks a lot. The problem could be solved yesterday befor i read your answers this morning.

no the routine looks like this:

```
g=0
FOR k=5, nfiles_LM-1  DO BEGIN ; take the last 12 files
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      time_LM_1h_oV(g,l)= time_LM(k,i)
      t2m_LM_1h_oV(g,l)= t2m_LM(k,i)
      rh2m_LM_1h_oV(g,l) = rhum_LM(k,i)
      td2m_LM_1h_oV(g,l) = td2m_LM(k,i)
      q2m_LM_1h_oV(g,l) = QV_2M_LM(k,i)
      pres_LM_1h_oV(g,l) = pres_LM(k,i)
      wspeed_LM_1h_oV(g,l)=windspeed_10m_LM(k,i)
      l=l+1
   ENDFOR
g=g+1
ENDFOR
```

This isn´t the most elegant solution for sure, but it´s doing its job. But i will have a look at "subscript ranges" and the solution without loops. There are so many things to learn :-).

Thanks for your help.

Nexia