
Subject: Re: Why this loop does not work?

Posted by [xiao zhang](#) on Thu, 20 Nov 2008 22:34:33 GMT

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On Nov 20, 3:50 pm, Vince Hradil <vincehra...@gmail.com> wrote:

> On Nov 20, 3:30 pm, xiao <littledd...@gmail.com> wrote:

>

>

>

>> On Nov 20, 2:55 pm, Jeremy Bailin <astroco...@gmail.com> wrote:

>

>>> On Nov 20, 3:45 pm, Paolo <pgri...@gmail.com> wrote:

>

>>>> Because you are using the same loop variable (i)

>>>> in two different loops, one of which happens to be inside the other...

>

>>>> xiao wrote:

>>>> > Hi~ everyone, I have a short program like this. But there are some

>>>> > bugs in it that I cannot open all the files in the loop. Anyone got an

>>>> > idea why is that? Thank you very much :)

>

>>>> > pro read_rams,fulnam,vname,nvars,data,kx,ky,kz

>

>>>> > vname=['UP','VP','WP','THETA']

>>>> > hh=

>>>> > ['00','01','02','03','04','05','06','07','08','09','10','11',
>>>> > '12','13','14','15','16','17','18','19','20','21','22','23']

>>>> > mm=['00','15','30','45']

>>>> > ss='00'

>

>>>> > ; timestep

>

>>>> > nvars=4 ; number of variable

>

>>>> > dirnm='test8/anal/' ;/* print to string 'dirnm' */

>>>> > filehd='a-A-A-2005-12-'

>>>> > filend='-g4.h5'

>

>>>> > for j=0,23 do begin ; -----This loop this loop works

>>>> > here, all the file names are correct :(

>>>> > for k=0,3 do begin ; -----This loop this loop works

>>>> > here, all the file names are correct :(

>

>>>> > fulnam=dirnm+filehd+'17-'+hh(j)+mm(k)+ss+filend

>

>>>> > openw,3,'data.txt'

>

>>>> > file_id = H5F_open(fulnam)

```

>
>>>> > if file_id ge 0 then begin
>>>> >   for iv=0, nvars-1 do begin
>
>>>> >     dataset_id = H5D_open(file_id, vname(iv)) ;/* Open existing
>>>> > dataset. but only open one file*/
>>>> >     print,file_id
>>>> >     rdata = H5D_read(dataset_id)
>>>> >     dataspace_id = H5D_GET_SPACE(dataset_id)
>>>> >     dimensions = H5S_GET_SIMPLE_EXTENT_DIMS(dataspace_id)
>>>> >     simspc = H5S_IS_SIMPLE(Dataspace_id)
>
>>>> >     if iv eq 0 then begin
>>>> >       kz=dimensions(0)
>>>> >       ky=dimensions(1)
>>>> >       kx=dimensions(2)
>>>> >       data=fltarr(kx,ky,kz,nvars)
>
>>>> >     endif
>
>>>> >     ntot=long(kx)*ky*kz
>>>> >     a=fltarr(ntot) ;introduce "a" to redistribute the data
>>>> >     a(*)=rdata
>
>>>> >     ii=-1L
>>>> >     for k=0,kz-1 do begin
>>>> >       for j=0,ky-1 do begin
>>>> >         for i=0,kx-1 do begin
>>>> >           ii=ii+1
>>>> >           data(i,j,k,iv)=a(ii)
>>>> >         endfor
>>>> >       endfor
>>>> >     endfor
>>>> >     print,'processing variable is ',vname(iv)
>>>> >     printf,3,data
>
>>>> >     H5S_CLOSE, dataspace_id
>>>> >     H5D_close,dataset_id ;/* Close the dataset. */
>>>> >   endfor
>>>> >   H5F_close,file_id ;/* Close the file. */
>>>> >   endif
>>>> >   print,'finishing process file ',fulnam
>
>>>> > endfor ; -----This loop does not work, only processed
>>>> > the first file :(
>>>> > endfor ; -----This loop does not work, only processed
>>>> > the first file :(
>

```

```
>>>> > close,3
>>>> > a=0.
>>>> > end
>
>>> Actually, i is fine, it's j and k that duplicated. :-)=
>
>> I changed the j,k to a,b at the beginning but it still does not
>> work.And the error changed to :
>
>> H5F_OPEN: Expression must be a scalar or 1 element array in this
>> context: FULNAM.
>> % Execution halted at: READ_RAM$      34 /nas/rstor6/xzhang/
>> read_rams.pro
>> %
>> $MAIN$
>> :(
>
> You use a later on in the code, too... a=fltarr()
```

THANKS ALL ~ IT WORKS NOW~~ :)
