
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 varible
>
>>>> 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 opend 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,'pocessing varible 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_RAMS      34 /nas/rstor6/xzhang/
>> read_rams.pro
>> %           $MAIN$
>> :(
>
> You use a later on in the code, too... a=fltarr()
```

THANKS ALL ~ IT WORKS NOW~~ :)
