
Subject: Re: Why this loop does not work?

Posted by [Jeremy Bailin](#) on Thu, 20 Nov 2008 20:55:54 GMT

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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. :-)=