
Subject: Why this loop does not work?

Posted by [xiao zhang](#) on Thu, 20 Nov 2008 20:29:25 GMT

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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 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,'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

endifor ; -----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

```
