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Subject: Why this loop does not work?

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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

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

```

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