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Subject: Re: Why this loop does not work?  
Posted by [pgrigis](#) on Thu, 20 Nov 2008 20:45:24 GMT  
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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

```

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