
Subject: Re: Loop Multiple Files and Rename
Posted by [penteado](#) on Fri, 21 Aug 2009 23:28:19 GMT
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On Aug 21, 7:13 pm, "anniebry...@gmail.com" <anniebry...@gmail.com> wrote:

> The question is:

>

> 1. How do I give each of the files a unique name when I use the
> writeu (or if there is a better command), i.e. something similar to
> their initial MODIS input name.

You need to decide some rule to generate a new name from the input file name. From what you wrote, I am guessing it may be to make a file with the same name, in another directory.

> 2. Using openr and a * after the initial few letters, is it finding
> each individual file in the folder?

Open only opens one file, which gets associated to a unit number. I do not know what it will do if the name has a * in it, it probably will not work.

I suggest putting the code to do the reorder of a file in a separate routine:

```
pro MOD09GA_file_bandreorder,filein,fileout
;reads a (ns,nl,nb) float array from filein, and writes it reordered
in fileout
;constants
  ns=4578
  nl=2367
  nb=7
  b_order[2,3,0,1,4,5,6] ; band order should be (3,4,1,2,5,6,7)
;read the input file
  image = fltarr(ns,nl,nb)
  openr,unit,filein,/get_lun
  readu,unit,image
  free_lun,unit
;make the reordered array
  morder=image[*,* ,b_order]
;write the reordered array
  print, "Now processing:" ,fileout
  openw,unit,fileout,/get_lun
  writeu,unit,morder
  free_lun,unit
  print, 'Done!'
end
```

Then a separate program makes a list of files to read, and from it makes a list of files to write, and calls the one above:

```
pro MOD09GA_bandreorder
;make a list of files to read
filesin=file_search('/users/u0609216/documents/modis/2009/Geo_2009/
MOD09GA.*')
;make the names of the output files
filesout='/users/u0609216/documents/modis/2009/
reorder_2009/'+file_basename(filesin)
;reorder each file
for i=0,n_elements(filesin)-1 do MOD09GA_file_bandreorder,filesin
[i],filesout[i]
end
```
