
Subject: Loop Multiple Files and Rename

Posted by anniebryant@gmail.com on Fri, 21 Aug 2009 21:42:55 GMT

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Hi All,

I have a pretty basic question.

I have a list of MODIS images in a folder, all beginning with the prefix "MOD09GA" followed by a string of other characters, i.e.
'A2009138.h09v05.005.2009140163311_Grid_2D_reprojected.img'

I have written a very basic little program to reorder the bands in the MODIS image, but I've only gotten it to work one image at a time.

Ideally, I'd have a loop that takes each image from the folder, reorders the bands, then writes each file with a unique name.

pro MOD09GA_bandreorder

```
ns=4578
```

```
nl=2367
```

```
nb=7
```

```
image = fltarr(ns,nl,nb)
```

```
morder=fltarr(ns,nl,nb)
```

```
;outfile=fltarr(ns,nl,nb)
```

```
for i=1,11 do begin ; is this opening multiple files, or the same  
over and over?? figure it out AB!
```

```
openr, i, '/users/u0609216/documents/modis/2009/Geo_2009/MOD09GA.*'
```

```
readu, i, image
```

```
close, i
```

```
b1 = image(*,*,0)
```

```
b2 = image(*,*,1)
```

```
b3 = image(*,*,2)
```

```
b4 = image(*,*,3)
```

```
b5 = image(*,*,4)
```

```
b6 = image(*,*,5)
```

```
b7 = image(*,*,6)
```

```
; band order should be (3,4,1,2,5,6,7)
```

```
morder[*,*,0]=b3
```

```
morder[*,*,1]=b4
```

```
morder[*,*,2]=b1
```

```
morder[:,*,3]=b2
morder[:,*,4]=b5
morder[:,*,5]=b6
morder[:,*,6]=b7

print, "Now processing:" , 'file', i

get_lun,unit

    openw,unit,'/users/u0609216/documents/modis/2009/reorder_200 9/
reorder.bip'
    writeu,unit,morder
    close,unit

endfor

    print, 'Done!'

end
```
