
Subject: ENVI IDL script stops running abruptly
Posted by [raghuram](#) on Thu, 15 Jan 2009 23:35:32 GMT
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Hi all,

I am running an IDL script with ENVI routines to automatically read in daily (Day of year) MODIS tiles, import layers and mosaic them together. The script works fine for about 5-6 iterations but at the 7th or 8th iteration, the MOSAICKING part of the script stops abruptly. I thought it was a memory related issue, or something to do with the number of FIDs that are open. So, i used the `envi_file_mng` function to make sure i don't use FIDs when not required. But it doesn't seem to have solved the problem. **If i close the program and open it, the script works for about 5-6 iterations again. So, the problem doesn't seem to be with the files but maybe something to do with memory or some other issue i'm not able to figure out. In brief, I am importing 6 MODIS tiles using the `convert_MODIS_data` procedure, and then using georeference-based mosaic. In the following code, the FOR loop at the beginning sets the iteration starting from day of year (DOY) 088 and is supposed to end at 097. However, the script (the mosaic section) stops running at 095. The imports run without a problem. If i close the program and reset the start of FOR loop to 095 and end to 105, it runs till about 101 and stops. Initially i thought it was a systematic error with 6 files running each time but there are cases when 7 files run. So, it is quite random.

Here's my code. I have put in some comments which i hope will help locate where the problem is occurring.

```
pro A_Z  
compile_opt idl2
```

```
ENVI, /RESTORE_BASE_SAVE_FILES  
ENVI_BATCH_INIT
```

```
startDOY=088  
finishDOY=097
```

```
for date=startDOY,finishDOY do begin  
range=finishDOY-date
```

```
;print,'Processing MODIS images of DOY',date
```

```
input_path='I:\MODIS_snow\2008_snowhdfs\  
dir=input_path  
cd,dir
```

```

files=FILE_SEARCH('MOD10A1*'+strtrim(string(date,format='(I0 3)'),
2)+'*.hdf',count=num_inputfiles)

;print,numfiles
output_path = 'I:\ASR_outputs\'

;MODIS grid file
format='MOD10A1.A2005145.h10v02.005.2008031132120.hdf'
;START IMPORTING MODIS LAYERS
for i=0,num_inputfiles-1 do begin
grid_file=files[i]
output_rootname = 'snowinputs_'+strtrim((strmid(grid_file,
9,7)+'_'+strmid(grid_file,17,6)),2)+'_'
year=strmid(grid_file,9,4)
grid_name = 'MOD_Grid_Snow_500m'
sd_names = ['Fractional_Snow_Cover','Snow_Albedo_Daily_Tile']
out_method = 0
convert_modis_data,in_file=grid_file, $
out_path=output_path, out_root=output_rootname, $
/higher_product, /grid, gd_name=grid_name, sd_names=sd_names, $
out_method=out_method,background=255, fill_replace_value=255
endfor

cd,output_path
inputs=file_search('snowinputs*'+strtrim(string(date,format= '(I03)'),
2)+'*.img',count=inputfiles)
fids=lindgen(inputfiles)
print,'inputfiles',inputfiles
for i=0,inputfiles-1 do begin
envi_open_file,inputs[i],r_fid=afile
fids[i]=afile
endfor

numfiles=n_elements(fids)

;*****THE code stops at this
;point*****
if numfiles eq 6 then begin
;*****START MOSAIC
pos=[[0,1],[0,1],[0,1],[0,1],[0,1],[0,1]]
out_ps=[[463.31271653,463.31271653]]
use_see_through = [[1L],[1],[1],[1],[1],[1]]
see_through_val = [[0L],[0],[0],[0],[0],[0]]
bandnames=['Fractional snow cover','Snow albedo']
;out_name=input_path+'mosaicking'+strtrim(date,2)+'*.dat'

georef_mosaic_setup, fids=fids, out_ps=out_ps, dims=dims, xsize=xsize,
ysize=ysize,$

```

```
x0=x0, y0=y0, map_info=map_info
```

```
envi_doit,'mosaic_doit',fid=fids,pos=pos,dims=dims,  
in_memory,x0=x0,y0=y0,background=0,out_dt=2,map_info=map_info,georef,  
$  
xsize=xsize,ysize=ysize,pixel_size=out_ps,see_through_val=se  
e_through_val,use_see_through=use_see_through,out_bname=band_names,r_fid=mosaic
```

```
;*****REMOVE FIDS AND DELETE INPUTS
```

```
for i=0,numfiles-1 do begin  
envi_file_mng,id=fids[i],/remove,/delete  
endfor
```

```
endif  
print,'processing is done'  
end
```

Please let me know if you need more information.

Thanks,
Raghu
