Subject: Re: Thank you Devin! I am one step closer now!!!
Posted by devin.white on Fri, 17 Aug 2007 12:51:34 GMT
View Forum Message <> Reply to Message

The way you have your program set up (working off a text file containing the data sets to process) works well with MCTK. The only sticking point is how you're setting up the output rootname. That value should be unique to every file you are processing. If you use the same value every time, MCTK will attempt to write the data its currently working with to the same output file repeatedly. I believe that is why you're running into the OPENW error. The first file writes correctly because it is the first one, but MCTK automatically loads the result to the Available Bands List, which means that ENVI now has a hold on it. When MCTK starts to process the second file, it attempts to write into the first one but it doesn't have permission to do so since ENVI's currently using it. I downloaded some MOD07_L2 data, created a text file like the one you used, modified your program slightly, and the results appear to be good. You'll want to change the directory and file specifications back to the ones you're using for this work properly, though. You'll notice that I moved the output rootname definition into the FOR loop so that a unique rootname can be generated each time MCTK is called. In this example I based the rootname off of the basename for the input file. I tend to do this so I can keep track of the product type, collection date, collection version, etc.

==========

```
PRO MCTK_MOD07_SOLZA
compile_opt idl2

WorkDir07 = 'C:\Harry_Test\'
batch_st07 = WorkDir07+'mod07_l2_file_list.txt'
WorkDirSat = 'C:\Harry_Test\'

numDates = file_lines(batch_st07)
Dates    = StrArr(numDates)

; Read input dates from batch file
OpenR, lun, batch_st07, /Get_lun
ReadF, lun, Dates
Free_Lun, lun, /force

output_location = 'C:\Harry_Test\'

swath_name = 'mod07'
sd_names = ['Solar_Zenith']
```

```
out_method = 1
output_projection = envi_proj_create(/geographic)
interpolation_method = 6

for j = 0, 4 do begin ; numDates-1 do begin

  current_file_basename = file_basename(dates[j], '.hdf')
  output_rootname = current_file_basename+'_SOLZA'

  s_time = systime(1)
  modis_swath_file = WorkdirSat+Dates[j]

    print, "Now processing MYD07 data using MCTK from date: ", $
Dates[j], '     File ', j+1, ' out of ', numDates

    convert_modis_data, in_file=modis_swath_file, $
      out_path = output_location, out_root= output_rootname, $
      /higher_product, /swath, swt_name=swath_name, sd_names=sd_names,
$
       out_method= out_method, out_proj=output_projection, $
      num_x_pts=50, num_y_pts=50, interp_method=interpolation_method,$
      /no_msg

endfor

e_time = systime(1)
print, 'Elapsed time for this procedure:    ', e_time - s_time

print, "Look's OK!"
end
```

On Aug 16, 9:41 am, DirtyHarry <kim20...@gmail.com> wrote:
> However, I still faced next problem...
>
> The first image was done successfully, but I got this error message
> when the loop was going to next image...
>
> "Openw: Error opening file. unit 100. file: D:\MODIS07\processed\D:
> \MODIS07\processed\solza_swath_2D_1.img"
>
> Actually, 'D:\MODIS07\processed' is the folder that output image files
> will be stored. I don't know why this pathname was written twice.
>
> When I process many *.hdf files at once, I make a batch file and write
> the names of *.hdf files on it, and then process. Maybe there is some
> kind of confliction between my way and MCTK way. I would like to try
> MCTK way this time.

>
> How do you usually do when you need to process may files at once? for
> example,
>
> MYD07_L2.A2006001.0355.005.2006126203815.hdf
> MYD07_L2.A2006001.0530.005.2006126204759.hdf
> MYD07_L2.A2006001.0535.005.2006126202918.hdf
> MYD07_L2.A2006001.1735.005.2006126213235.hdf
> MYD07_L2.A2006002.0435.005.2006126221739.hdf
>
> if these are the files that you need to process, what will you do?
>
> Thanks in advance !
>
> Harry
