Subject: Re: newbie question.. again :)
Posted by alex_panton on Thu, 10 Jul 2003 13:34:41 GMT
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thank you for you wonderful words of wisodom :) a couple of tweaks and
i now have a working program thank you so much !

cheers

alex

Timm Weitkamp <timm.weitkamp@nowhere> wrote in message
news:<Pine.LNX.4.44.0307100404290.16258-100000@localhost.localdomain>...
> Alex,
>
> What follows below may or may not run like this (it should, but it's sort
> of late here now). But I hope it helps anyway.
>
> Timm
>
> <http://people.web.psi.ch/weitkamp>
>
>
> storeDir = 'g:\goes9_processed\btcloudfree\subtraction'
> cd, storeDir
> files02=findfile('*2.tiff', count=num02files)
>
> ; You want one single output .csv file, right? So you'll have to open it
> ; *outside* the loop that goes over the images
>
> outfilename = 'g:\test\out.csv'
> openw, uOut, /get_lun
>
> ; Now loop over all the Tiffs, and every time write one more line
> ; to the output file
>
> for y = 0, num02files-1 do begin
>
> ; Read your TIFF image in a 2D array
>
> tiff = read_tiff(files02[y])
>
> ; Extract a 5x5 region of interest
>
> radianceValues = tiff[145:145+4, 180:180+4]

```
>
>    ;  Calculate moments
>
>    stats = MOMENT(radianceValues)
>
>    ;  Concatenate 5x5 image data and moments
>    ;  into one single 1D array. This will be
>    ;  the line to write to the .csv file.
>
>    outValues = [radiancevalues[*], stats]
>
>    ;  How many numbers are there in that line?
>    ;  (need this information for the format code)
>
>    nVal = N_ELEMENTS(outValues)
>    formStr = '(' + STRTRIM(nVal,2) + '(F1, :,", "))'
>
>    fileLine = STRING(outValues, FORMAT=formStr)
>    printf, uOut, fileLine
>
>  endfor
>
>  free_lun, uOut
>
>
>
>  On 09.07.03 at 14:12 -0700, Alexandra Panton wrote:
>
>>  hey thanks for replying:) i didn't post my code 'cos its a bit on the
>>  messy side bare in mind i have only been using this for about 2 weeks
>>  ! I re read my post hmm, I have like 91 files, I want to extract the
>>  same 5 by 5 area on each image.  Put this all into one row (this is
>>  cool can do this) what i can't do is get say, image2 to go into row 2
>>  .. if that makes sense? .csv or anything really just want to be able
>>  to export it to something evil like a spreadsheet :)
>>
>>  here goes ....
>>
>>  store=('g:\goes9_processed\btcloudfree\subtraction')
>>  outstore=('g:\test')
>>  cd, store
>>  y=3
>>  x=1
>>  files02=findfile('*2.tiff', count=num02files)
>>  print, num02files
>>
>>
>>  while(num02files gt y) do begin
```

```
>>   cd, store
>>   InfileName02=files02(y)
>>   print, Infilename02
>>   ok=query_tiff(Infilename02) ;checks to see if the tiff file exists
>>
>>    if (ok eq 1) then begin
>>
>>    tiffread=read_tiff(Infilename02) ; reads tiff
>>     storage_array=make_array(25,y ,/byte) ;my array that i want to
>>  write to
>>     radiancevalues=extrac(tiffread,145,180,5,5) ;extracts a 5 by 5
>>  array from the coordinates given
>>     radiancevalues=rebin(radiancevalues,25,1) ;puts it all on one line
>>         len02=strlen(InfileName02)
>>      striptext02=strmid(Infilename02,0,len02-7)
>>       stats=moment(radiancevalues)
>>       outname=striptext02+'test'+'.csv' ;configures the output filename
>>       storage_array=radiancevalues[*] ;*trying* to get radiance values
>>  into one array but can't get it to work *sighs*
>>     cd, outstore
>>     openw,1,outname, width=2000 ;opens outputfile
>>
>>     for i=0,num02files-1 do begin
>>     printf,1,storage_array,stats, format='(25(f,","),f)'
>>     endfor
>>     close,1
>>     free_lun,1
>>       ;endfor
>>
>>    endif else begin
>>    print, 'no matching file name found in directory'
>>    endelse
>>
>>  y=y+1
>>  endwhile
>>
>>  end
>>
>>  ..and google groups messed up my format something chronic, my
>>  apologies
>>
>>  cheers for any help you can give
>>
>>  alex
>>
>>
>>
>>
```

>>
>> Timm Weitkamp <timm.weitkamp@nowhere> wrote in message
news:<Pine.LNX.4.44.0307091614210.15330-100000@localhost.localdomain>...
>>> Today at 09:31 -0400, Haje Korth wrote:
>>>
>>>> Alex,
>>>> I am not quite sure what you are trying to do and I for sure do not know
>>>> what a .csv file is
>>>
>>> I think a .csv file is a "comma-separated values" Ascii file.
>>>
>>>> but here is an idea: The area you extravt is a 2-d
>>>> array with dimensions xdim and ydim if rectangular. If I understand you
>>>> correctly your number of collumns x is xdim*ydim. In order to map the 2d
>>>> array into a 1d array, which is one row in your file, you use
>>>> 'reform(2d-array,xdim*ydim)'. In order to process all your files you just
>>>> loop through them.
>>>
>>> Or, even simpler (assuming that you want to map a 2D array "a" into a 1D
>>> array "b"): b = a[*].
>>>
>>> Alex: I understand you already wrote some code but it doesn't work as you
>>> would like it to. Would you mind posting it and pointing out to us the
>>> part where you're stuck?
>>>
>>> Timm
>>