Subject: Unsolved indexing problem 2 weeks ago.
Posted by kim20026 on Mon, 10 Sep 2007 02:00:32 GMT
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G'day, Everyone!

I posted this question about 2 weeks ago, but I couldn't make it at that time. I was so urgent and I just finished with the way of the Old Stone Age. I spent several hours to finish up this things with MS Excel... T.T. However, I got a chance to do the same thing, I want to make it with IDL this time. Please give me any idea.

What I am trying to do now is to read in 16 lines at one time and compare the values of the second column for all 16 lines. Then, I either extract the one good value for output or I set the output to be unchanged. Once I've figured out what I want to output, I output all 16 lines at once and output the same value to the third column for each line.

This exmaple data file is simplified for test simulation. With this file, I am testing with 5 lines instead of 16.

aaa.txt
01 -999.9
02 -999.9
03 -999.9
04 0.13
05 -999.9
06 -999.9
07 0.17
08 -999.9
09 -999.9
10 -999.9
11 -999.9
12 -999.9
13 32.77
14 -999.9
15 -999.9

This is the array that I want to make.

01 -999.9 0.13
02 -999.9 0.13
03 -999.9 0.13
04 0.13 0.13
05 -999.9 0.13
06 -999.9 0.17
07 0.17 0.17

08 -999.9 0.17
09 -999.9 0.17
10 -999.9 0.17
11 -999.9 -999.9
12 -999.9 -999.9
13 32.77 32.77
14 -999.9 -999.9
15 -999.9 -999.9

I coded as shown below. However, As Conor pointed out 2 weeks ago, I am doing something different. I have changed several part of this code, but my trial has not been successful so far. Please give me any idea, recommendable functions, indexing tips, etc... Thanks.

Harry

```
 ------------------------------------------------------------ ----------
pro albedo_final
close, /all
data1 = 'D:\MODIS_ALL\aaa.txt'
num_data = file_lines(data1)
albedo_arr = fltarr(2, num_data)
albedo_fin = fltarr(3, num_data)
albedo_OK = 0.0

openr, 2, data1
readf, 2, albedo_arr
close, 2
c1 = 0

  openw, 1, 'bbb.txt'
    for i= 0, num_data-1 do begin

       dd = 5*(c1+1) +1
       if albedo_arr[0, i] lt DD then begin
          if (albedo_arr[1,i] gt 0 and albedo_arr[1,i] lt 1) then
begin
              albedo_OK = albedo_arr[1,i]
              print, albedo_OK
           endif
          albedo_fin[0:1, i] = albedo_arr[0:1, i]
          albedo_fin[2, i] = albedo_OK
        endif
         c1 = c1+1
    endfor
    print, albedo_fin
    ;printf, 1, albedo_fin
    ;close, 1
```

```
    print, " It's done!"
end
```

This is the last result.

```
1.00000     -999.900     0.000000
2.00000     -999.900     0.000000
3.00000     -999.900     0.000000
4.00000     0.130000     0.130000
5.00000     -999.900     0.130000
6.00000     -999.900     0.130000
7.00000     0.170000     0.170000
8.00000     -999.900     0.170000
9.00000     -999.900     0.170000
10.0000     -999.900     0.170000
11.0000     -999.900     0.170000
12.0000     -999.900     0.170000
13.0000     -999.900     0.170000
14.0000     -999.900     0.170000
15.0000     -999.900     0.170000
```