Subject: Re: Unsolved indexing problem 2 weeks ago. Posted by Jean H. on Mon, 10 Sep 2007 15:56:13 GMT

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Harry,

I believe you would have to read your data 5 by 5 (or whatever), do this in the for loop, setting a step of 5. Then, select data from i to i+5. try to compute your average value (using where data gt -999). If there is no valid data, write -999 as the new value. At last, you can write the new data in the new array, 5 at a time again.

Jean

>

>

>

```
DirtyHarry wrote:
```

- > 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] It 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
                        0.170000
             -999.900
> 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
>
```

Subject: Re: Unsolved indexing problem 2 weeks ago. Posted by jkj on Tue, 11 Sep 2007 05:32:22 GMT

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```
I guess that this:
>> albedo_arr = fltarr(2, num_data)

followed by this:
>> openr, 2, data1
>> readf, 2, albedo_arr

fills up the array "albedo_arr" with the first two floats from each of the first "num_data" lines?
```

I tend to be more explicit and read/parse each line separately - it's nice to know when a line does not 'look' like what it should. I've never noticed a performance hit, but I've never tried it the above way, either. Some array operations are good and some blind you from irregularities that should be caught!

```
while(not eof(2))do begin
 line = "
 readf, 2, line
 ....check/process the line... do a write, whatever
endwhile
-Kevin
```