Subject: Add one column based on the data in another column
Posted by kim20026 on Wed, 22 Aug 2007 09:08:15 GMT
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G'day, Everyone!

I have this data file. This was summarized from bigger file for test simulation.

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 -999.9
14 -999.9
15 -999.9

I am making another column based on 2nd column with these criteria.
1) All five lines should have the same value.
2) This value is come from 2nd column and should be 0 < value < 1.
3) If no value is in this range, (i.e. 11~15th lines above), just copy the values from 2nd column.

This is my target array.

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 -999.9 -999.9

14 -999.9 -999.9
15 -999.9 -999.9

To get this array, I coded as follows. However, something must be
wrong so far. Please take a look and give me any suggestions. Thanks.

```
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