
Subject: Add one column based on the data in another column

Posted by [kim20026](#) on Wed, 22 Aug 2007 09:08:15 GMT

[View Forum Message](#) <> [Reply to Message](#)

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 $0 < \text{value} < 1$.

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
