
Subject: time-series monthly averages rainfall
Posted by [k_ghreep](#) on Mon, 21 May 2012 19:06:38 GMT
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Dear all,

I wrote my own code to calculate a time-series monthly averages rainfall .

the measured data are recorded as follows

+++++

9/15/1988	0.00
9/16/1988	0.20
9/17/1988	0.00
9/18/1988	0.00
9/19/1988	19.70
9/20/1988	0.00
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10/22/1988	2.10
10/23/1988	5.30

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12/17/1988	0.90

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11/9/1990	5.00
11/10/1990	3.80
11/11/1990	0.00
11/12/1990	11.00
11/13/1990	40.00

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11/15/1990	47.80
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8/8/2000	0.00
8/9/2000	0.00
8/10/2000	0.00
8/11/2000	0.00
8/12/2000	0.00
8/13/2000	0.00
8/14/2000	0.00

8/15/2000	0.00
8/16/2000	0.00
8/17/2000	0.00
8/18/2000	0.00
8/19/2000	0.00
8/20/2000	0.00
8/21/2000	0.00
8/22/2000	0.00
8/23/2000	0.00
8/24/2000	0.00
8/25/2000	0.00
8/26/2000	0.00
8/27/2000	0.00
8/28/2000	0.00
8/29/2000	0.00
8/30/2000	0.00
8/31/2000	0.00
9/1/2000	0.00
9/2/2000	0.00
9/3/2000	0.00
9/4/2000	0.00
9/5/2000	0.00
9/6/2000	0.00
9/7/2000	0.00
9/8/2000	0.00
9/9/2000	0.00
9/10/2000	0.00
10/8/2000	0.00
10/9/2000	0.00
10/10/2000	0.00
10/11/2000	0.00
10/12/2000	0.00
10/13/2000	0.00
10/14/2000	1.90
10/15/2000	0.00
10/16/2000	0.00
10/17/2000	7.50
10/18/2000	9.10
10/19/2000	0.50
10/20/2000	3.00
10/21/2000	3.70
10/22/2000	0.40
10/23/2000	0.00
10/24/2000	0.00
10/25/2000	0.00
10/26/2000	0.00
10/27/2000	0.00
10/28/2000	0.40

10/29/2000	0.00
10/30/2000	0.00
10/31/2000	0.00
11/1/2000	0.00
11/2/2000	0.00
11/3/2000	0.00
11/4/2000	0.00
11/5/2000	0.00
11/6/2000	0.00
11/7/2000	0.00
11/8/2000	0.00
11/9/2000	0.00
11/10/2000	0.00
11/11/2000	0.00
11/12/2000	0.00
11/13/2000	0.00
11/14/2000	0.00
11/15/2000	0.00
11/16/2000	0.00
11/17/2000	0.00
11/18/2000	0.00
11/19/2000	0.00
11/20/2000	0.00
11/21/2000	0.00
11/22/2000	0.00
11/23/2000	0.00
11/24/2000	0.00
11/25/2000	0.00
11/26/2000	0.00
11/27/2000	0.00
11/28/2000	0.00
11/29/2000	0.00
11/30/2000	0.00
12/1/2000	0.00
12/2/2000	0.00
12/3/2000	0.30
12/4/2000	0.20
12/5/2000	6.70
12/6/2000	0.00
12/7/2000	0.00
12/8/2000	0.00
12/9/2000	0.00
12/10/2000	0.00
12/11/2000	0.00
12/12/2000	0.00
12/13/2000	0.00
12/14/2000	0.00
12/15/2000	0.00

```
12/16/2000      0.00
12/17/2000      3.70
+++++ please note that the data are not recorded
regularly.
```

I wrote my one code to skip the non measured intervals in the large data set we have as follows.

----- the code

Pro rain_monthly_mean

Device, Decomposed=0, Get_Decomposed=theState

;CCCCCCCCCCCCCCC

IF N_Elements(filename) EQ 0 THEN BEGIN

 filename = Dialog_Pickfile(Filter='*.prn', Title='Select Rain
file for READING')

 IF filename EQ '' THEN RETURN

ENDIF

;Read the input data

OpenR, lun, filename, /Get_Lun

 data =strarr(3065)

 READF, lun, data

close, lun

;Open an output file to hold the date and rain information

;openw, lun, 'C:\Documents and Settings\test\agro1002f.txt'

openw, lun, 'C:\Documents and Settings\test.txt'

for i=0,n_elements(data)-1 do begin

 ;Divide the input string into pieces for date and rain amount

 pieces = STRSPLIT(data[i], ' ', /EXTRACT)

 date_sub = pieces[0]

 ra_sub = pieces[1]

 ;Get the day, month, year from the date substring

 ; Also convert them to integers

 date_pieces = STRSPLIT(date_sub, '/', /EXTRACT)

 day = long(date_pieces[1])

 month = long(date_pieces[0])

 yy = long(date_pieces[2])

 ;Write to output file

 printf,lun, yy, month,day, ra_sub, format='(I4, 5x,I3, 5x, I3, 5x,
f7.2) '

```

endfor
close, lun

;????????????????????????????????????????
array=fltarr(4,3065)

f='C:\Documents and Settings\test.txt'
;f='test_ebert.txt'
openr,lun,f,/get_lun
readf,lun,array
free_lun,lun

year      = reform(array[0,*])
mon       = reform(array[1,*])
Da        = reform(array[2,*])
va_rain   = reform(array[3,*])

y = year[UNIQ(year)]
print, y , n_elements(y) ; my aim

;=====

b = mon[UNIQ(mon)]
print, b ; month_index 9 10, 11, 12, 1, 2, 4, 5, \\\ my aim

print, n_elements(b) ; number of months= ?

end

```

```

-----

+++++++ the ouptput data as follows
1988.00 1989.00 1990.00 1991.00 1995.00 1996.00 1997.00 1998.00
1999.00 2000.00
10
9.00000 10.0000 11.0000 12.0000 1.00000 2.00000 3.00000 4.00000
7.00000 8.00000
9.00000 10.0000 11.0000 12.0000 1.00000 2.00000 3.00000 4.00000
5.00000 6.00000
7.00000 8.00000 9.00000 10.0000 11.0000 12.0000 1.00000 2.00000
3.00000 4.00000
5.00000 6.00000 7.00000 8.00000 9.00000 10.0000 11.0000 12.0000
3.00000 4.00000
5.00000 6.00000 7.00000 8.00000 9.00000 10.0000 11.0000 12.0000
1.00000 2.00000
3.00000 4.00000 5.00000 6.00000 7.00000 8.00000 9.00000 10.0000
11.0000 12.0000

```

1.00000 2.00000 3.00000 4.00000 5.00000 6.00000 7.00000 8.00000
9.00000 10.0000
11.0000 12.0000 1.00000 2.00000 3.00000 4.00000 9.00000 10.0000
11.0000 12.0000
1.00000 2.00000 3.00000 4.00000 5.00000 6.00000 7.00000 8.00000
9.00000 10.0000
11.0000 12.0000 1.00000 2.00000 3.00000 4.00000 5.00000 6.00000
7.00000 8.00000
9.00000 10.0000 11.0000 12.0000
104

+++++

Now

I would like to read the values of measured rainfall and count the
rainy and non rainy days in each month in the large data set.

the final output data must be as follows:-

" year - month-number of rainy days - number of non rainy days-
monthly total rainfall"

I can't complete my own code.

Thank you very much for your helping
Khaled" k_ghreep@yahoo.com"
