
Subject: Re: I would like to average the first n columns based on duplicate values of the n+1th column

Posted by [belkaraza](#) on Tue, 04 Oct 2016 11:23:57 GMT

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Am Dienstag, 4. Oktober 2016 13:17:24 UTC+2 schrieb belk...@web.de:

> Am Dienstag, 4. Oktober 2016 12:32:48 UTC+2 schrieb Markus Schmassmann:

>> On 10/03/2016 11:05 PM, belkaraza@web.de wrote:

>>> Can Someone help me solve this problem in IDL:

>>> "I have a matrix with duplicate numbers in one of the columns. I

>>> would

>>> like to average the rows with duplicate numbers. For example, I have

>>> duplicate values in a matrix A in column 3:

>>> A =

```
>>>  1      2      1
>>>  4      4      2
>>>  5      4      2
>>>  4      5      2
>>>  5      5      3
>>> 10      3      3
```

>>>

>>>

>>> B =

```
>>>  1      2      1
>>> 4.3333  4.3333  2.0000
>>> 7.5000  4.0000  3.0000
```

>>>

>>> where each row is the average values of the duplicate rows of column 3.

>>>

>>> Can anyone help?"

>>>

>>> found here:

>>> <http://stackoverflow.com/questions/15270019/i-would-like-to-average-the-first-n-columns-based-on-duplicate-values-of-the-n1>

>>

>> if isa(A,/integer) then begin

>> h=histogram(A[2,*],reverse_indices=ri)

>> idx=where(h ne 0,n)

>> B=fltarr(3,n)

>> for i=0,n-1 do begin

>> if ri[idx[i]] eq ri[idx[i]+1]-1 then \$

>> B[0,i]=A[* ,ri[ri[idx[i]]:ri[idx[i]+1]-1]] else \$

>> B[0,i]=mean(A[* ,ri[ri[idx[i]]:ri[idx[i]+1]-1]],dim=2)

>> endfor

>> endif else

>> values=A[2,uniq(A[2,*],sort(A[2,*]))]

>> ; if A[2,*] is already sorted, A[2,uniq(A[2,*])] is sufficient there

>> n=n_elements(values)

```
>> B=fltarr(3,n)
>> for i=0,n-1 do begin
>>     w=where(A[2,*] eq values[i],cnt)
>>     if w cnt 1 then B[0,i]=A[*,where(A[2,*] eq values[i])] else $
>>         B[0,i]=mean(A[*,where(A[2,*] eq values[i])],dim=2,/nan)
>>     endfor
>> endelse
>>
>>
>> hope that does it, Markus
>
>
> Hey, thanks for the answer. The last if loop is bugged. if w cnt 1 then B[0,i]
> Can't see how to fix that
Ok fixed it with "if w[cnt] eq 1 then B[0,i]"
Again thanks alot for your help ;)
```
