
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 11:17:22 GMT

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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
