
Subject: Re: Ordered index array

Posted by [Emmanuel Christophe](#) on Thu, 08 Sep 2005 08:58:54 GMT

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

Thanks Paolo,

Your function does exactly what I want, but my problem is precisely that

I need to do it on huge array (300 000 elements at least), that why i'm looking for a more 'IDL' way to do it :)

Emmanuel

```
>
> But this will fail if 'a' has more elements than the number of
> its different values, for instance a=[3,3,1,2,3,2,2,1,2,3].
>
> One could try this:
>
> PRO test
>
> a=[3,3,1,2,3,2,2,1,2,3]
>
> b=a
> c=intarr(n_elements(a))
>
> h=histogram(a,min=1,reverse_ind=ri)
>
> done=0
> rank=1
> WHILE NOT done DO BEGIN
>   actual_value=b[0]
>   ind_actual_value=ri[ri[actual_value-1]:ri[actual_value]-1]
>   c[ind_actual_value]=rank
>   rank=rank+1
>   indremove=where(b NE actual_value,count)
>   IF count GT 0 THEN b=b[indremove] ELSE done=1
> ENDWHILE
>
> print,a
> print,c
>
> END
>
> but it will get inefficient as the numbers of different values
> in 'a' grows, as the code in the loop get called more and more
> times...
```

>
> Ciao,
> Paolo
>
>>
>> Cheers,
>>
>> David
>>
>>
