Subject: Re: Ordered index array
Posted by Paolo Grigis on Thu, 08 Sep 2005 10:03:07 GMT
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Emmanuel Christophe wrote:

- > 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 :)

The problem is not in the number of *elements* of a, but in the number of *different values* that a can take... but yes, if this is large, you should not use that routine.

Paolo

```
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
>>>
>>>
```