
Subject: Re: Remove the repeated lines in my array...

Posted by [Markus Schmassmann](#) on Thu, 22 Dec 2016 13:30:06 GMT

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On 12/13/2016 06:22 PM, Markus Schmassmann wrote:

```
> Am 13.12.2016 um 16:37 schrieb dave poreh:
>> I have an array (24*300,000) and it is lon-lat with some
>> specification (24 characteristics). Some of these lines are repeated
>> numbers. I mean same lon-lat and same specifications. I just want to
>> know how could i remove the repeated lines in my array,
> the following functions are untested
>
> function ord, array
> ;+
> ; Calculates the ordinal of each value of an array in terms of the
> ; sorted values.
> ; inspired by jbiu's ord & uniqify, written by Markus Schmassmann
> ; IDL> result=ord(array)
> ;-
> compile_opt defint32, strictarr
> return, reform( value_locate(array[uniq(array,sort(array))],array), $
> size(array,/dimensions),/overwrite )
> end
>
> function uniq_multi, array
>   ords=ulongarr(24,300000)
>   for i=0,23 do ords[i,*]=ord(array[i,0])
>   maxO=max(ords,dim=2)
>   idx=ulong64arr(300000)
>   for i=0,23 do idx=idx*maxO[i]+ords[i,*]
>   return, array[*,uniq(idx,sort(idx))]
> end
>
>
> if you run into an overflow for idx, then you could print each of the
> lines into an element of an array of strings and then use
>
> array[*,uniq(idx,sort(stringarray))]
>
> I hope one of these approaches works or can be made to work,
> here the corrected code should anyone else care.
> Seasonal greetings to everyone, Markus
```

```
function uniq_multi, array
;+
; same as uniq, but considers multiple columns of an array
;-
```

```
compile_opt defint32, strictarr

sz=size(array,/dim)
ncol =sz[0]
nlines=sz[1]

ords=ulonarr(ncol,nlines)
for i=0,ncol-1 do ords[i,*]=ord(array[i,*])
maxO=max(ords,dim=2)
idx=ulon64arr(1,nlines)
for i=0,ncol-1 do idx=idx*maxO[i]+ords[i,*]

return, array[,uniq(idx,sort(idx))]

end
```
