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Subject: Remove the repeated lines in my array...  
Posted by [d.poreh](#) on Tue, 13 Dec 2016 15:37:26 GMT  
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Dear Folk,

Hi,

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,

Thanks for any kind of helps in advance,

Cheers,

Dave

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Subject: Re: Remove the repeated lines in my array...  
Posted by [Markus Schmassmann](#) on Tue, 13 Dec 2016 17:22:06 GMT  
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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=ulonarr(24,300000)
```

```
  for i=0,23 do ords[i,*]=ord(array[i,0])
```

```
  maxO=max(ords,dim=2)
```

```
  idx=ulon64arr(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,  
Good luck,  
Markus

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Subject: Re: Remove the repeated lines in my array...  
Posted by [d.poreh](#) on Mon, 19 Dec 2016 15:33:21 GMT  
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On Tuesday, December 13, 2016 at 7:07:28 PM UTC+3:30, dave poreh wrote:

```
> Dear Folk,  
> Hi,  
> 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,  
> Thanks for any kind of helps in advance,  
> Cheers,  
> Dave
```

Thanks Markus,  
I have tried this code but it gives me some error!,  
If u give me your email i could send u one text file you test it yourself,if you do not mind,  
Thanks for any kind of help before,  
Cheers,  
Dave

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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=ulonarr(24,300000)
>   for i=0,23 do ords[i,*]=ord(array[i,0])
>   maxO=max(ords,dim=2)
>   idx=ulon64arr(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

```

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