
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

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

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

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
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> the following functions are untested

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```

> ; 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

```
