
Subject: Re: Removing equal elements from an array
Posted by [Maarten\[1\]](#) on Wed, 16 Aug 2006 12:55:00 GMT
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Mike wrote:

> Julio wrote:
>> I have an array 'A' with two columns, latitudes and longitudes, and
>> several lines. A need to make another array with the elements of A that
>> don't repeat.
>
> Take a look at the uniq function. Here's an example:

[snip]

Which still doesn't take into account the following situation:

```
A = [[20.4, 40.3, 50.2, 50.2], $  
     [30.2, 60.2, 32.4, 32.5]]
```

in which case no items should be removed. Just thinking out aloud here.

With:

```
lat = A[* ,0] & lon = A[* ,1]
```

we have

```
idx_lat = uniq(lat) & idx_lon = uniq(lon)
```

At the very least both index arrays should be the same, if you want to apply this automagically.

If the precision of the coordinates is limited, you can try to combine the lat and lon in a single number. If the coordinates are floats, the following ought to work:

```
l = lat + (2.0D0^23)*lon  
idx = uniq(l)  
lat = lat[idx] & lon = lon[idx]
```

Maarten
