
Subject: Re: remove duplicate elements from a multi-dimensional array efficiently in IDL

Posted by [Jeremy Bailin](#) on Sun, 03 May 2009 00:57:38 GMT

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On May 2, 8:47 pm, guillermo.castilla.castell...@gmail.com wrote:

> On May 1, 12:36 pm, Jeremy Bailin <astroco...@gmail.com> wrote:

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>> On May 1, 1:47 pm, Jeremy Bailin <astroco...@gmail.com> wrote:

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>>> On May 1, 12:13 pm, "chenb...@gmail.com" <chenb...@gmail.com> wrote:

>

>>>> Hello, everyone!

>

>>>> Is there anyone knows a routine in IDL that be capable to remove
>>>> duplicate elements from a multi-dimensional array efficiently? I 'm
>>>> now working with huge arrays, and I have written one by myself, it
>>>> works but is with low efficiency.

>

>>>> example of my problem:

>>>> the input array:

>>>> 1,10,9,100,200

>>>> 2,11,8,101,201

>>>> 2,11,8,101,201

>>>> 3,10,9,100,200

>>>> 4,7,12,99,199

>>>> 2,11,8,101,201

>

>>>> goal:

>>>> remove the duplicate elements with the same values for the second and
>>>> the third column.

>

>>>> expected output:

>>>> 1,10,9,100,200

>>>> 2,11,8,101,201

>>>> 4,7,12,99,199

>

>>>> Thanks for your help!

>

>>>> Bo

>

> If you don't have handy that ORD function Jeremy pointed out (I didn't
> know of it), and assuming your array is of byte type, you can do the
> following:

>

> input = [[1,10,9,100,200],[2,11,8,101,201],[2,11,8,101,201],\$

```
> [3,10,9,100,200],[4,7,12,99,199],[2,11,8,101,201]]
>
> keep = Where(Histogram(1000L*input[1,*]+input[2,*], rev=r) GT 0)
> keep = r[r[keep]]
> print, input[:,keep[sort(keep)]]
>   1   10   9  100  200
>   2   11   8  101  201
>   4    7  12   99  199
>
> Cheers
>
> Guillermo
```

You can find ord at:

<http://web.astroconst.org/jbiu/jbiu-doc/math/ord.html>

-Jeremy.
