

---

Subject: Re: sorting string arrays - non alphabetic and user defined order  
Posted by [JD Smith](#) on Mon, 23 Oct 2006 21:03:36 GMT  
[View Forum Message](#) <> [Reply to Message](#)

---

On Tue, 17 Oct 2006 06:00:03 -0600, David Fanning wrote:

> Greg Michael writes:  
>  
>> hmm... it seems to me that 'result' is the array you are looking for:  
>> it has the elements in the order you want, and they have the indices  
>> numbered from zero (i.e. there are no empty elements).  
>  
> It seems that way to me, too. But I had to work with  
> the solution for a time before I understood it. It  
> would have taken me a LONG time to think of using  
> indices rather than strings to come up with a solution.  
> Perhaps the solution was TOO concise. I've expanded on  
> it just a little bit in this article:  
>  
> [http://www.dfanning.com/idl\\_way/strsort.html](http://www.dfanning.com/idl_way/strsort.html)

This is similar to the standard inflate and compare WHERE\_ARRAY method. So it would be somewhat simpler (if a bit slower) just to say:

```
mylist=mylist[sort(where_array(mylist,namelist,/PRESERVE_ORDER))]
```

see [turtle.as.arizona.edu/idl/where\\_array.pro](http://turtle.as.arizona.edu/idl/where_array.pro) for the modified version which includes PRESERVE\_ORDER.

That said, this exhibits the classic defect of "scale-em-up-and-compare" methods which the REBIN/REFORM stuff enables: it starts to get ugly when your comparison vectors get long, scaling as the product of their lengths, and gobbling up enormous amounts of memory in the process. We discuss in detail the pros and cons of the various methods here:

[http://www.dfanning.com/tips/set\\_operations.html](http://www.dfanning.com/tips/set_operations.html)

For long vectors, you'll be better off with a sort-based algorithm (e.g. ind\_int\_SORT, see above):

```
mylist=mylist[sort(ind_int_sort(namelist,mylist))]
```

JD

---