
Subject: error with sort

Posted by [R.Bauer](#) on Mon, 10 Jan 2000 08:00:00 GMT

[View Forum Message](#) <> [Reply to Message](#)

Hi,

`SORT()` is not platform independent!!!!

Try this:

```
** Structure !VERSION, 5 tags, length=40:
ARCH      STRING  'x86'
OS        STRING  'Win32'
OS_FAMILY STRING  'Windows'
RELEASE   STRING  '5.2'
BUILD_DATE STRING  'Oct 30 1998'
```

OR

```
* Structure !VERSION, 5 tags, length=40:
ARCH      STRING  'x86'
OS        STRING  'Win32'
OS_FAMILY STRING  'Windows'
RELEASE   STRING  '5.3'
BUILD_DATE STRING  'Nov 11 1999'
```

```
a=[1,1,1,1,1]
idx=sort(a)
PRINT,idx
```

```
1      2      3      4      0
```

```
b=['A','B','C','D','E']
PRINT,b[idx]
```

```
B C D E A
```

```
** Structure !VERSION, 5 tags, length=40:
ARCH      STRING  'ibmr2'
OS        STRING  'AIX'
OS_FAMILY STRING  'unix'
RELEASE   STRING  '5.2.1'
BUILD_DATE STRING  'Jun 4 1999'
```

```
a=[1,1,1,1,1]
idx=sort(a)
PRINT,idx
```

1 0 2 4 3

```
b=['A','B','C','D','E']
PRINT,b[idx]
```

B A C E D

=====

R.Bauer

File Attachments

1) [R.Bauer.vcf](#), downloaded 95 times

Subject: Re: error with sort

Posted by [Julie Greenwood](#) on Thu, 13 Jan 2000 08:00:00 GMT

[View Forum Message](#) <> [Reply to Message](#)

Martin Schultz <martin.schultz@dkrz.de> wrote in message
> For this purpose, I have written a multisort routine that is (hopefully)
> still available at
> <http://www-as.harvard.edu/chemistry/trop/staff/mgs/idl>
> This allows "hierarchical" sorting for (I believe) up to 5 variables.

It seems to now be at:
<http://www-as.harvard.edu/people/staff/mgs/idl/>

Julie

~~~~~  
Juliet G. Greenwood  
Senior Programmer  
Oceanweather Inc.  
[JulieG@Oceanweather.com](mailto:JulieG@Oceanweather.com)  
<http://www.oceanweather.com/>

<http://www.thehungersite.com/>

The Hunger Site - Donate Food for Free to  
Feed Hungry People in the World.  
The Site's Sponsors Make the Donations.

---

---

Subject: Re: error with sort  
Posted by [Martin Schultz](#) on Thu, 13 Jan 2000 08:00:00 GMT  
[View Forum Message](#) <> [Reply to Message](#)

---

landsman@my-deja.com wrote:

>  
> If you are worried about what SORT does to equal values, you might  
> instead want to use the program bsort.pro, available at  
>  
> <ftp://idlastro.gsfc.nasa.gov/pub/pro/misc/bsort.pro>  
>  
> This procedure ensures that equal values are always maintained in the  
> initial order, i.e.  
>  
> IDL> print,bsort()  
>       0       1       2       3       4  
>  
> One place where this procedure is useful is when you are sorting on more  
> than one parameter. For example, suppose you have a set of  
> temperature and pressure measurements (T, P), and want the primary sort  
> to be by temperature -- but whenever temperatures are equal, you want  
> the values sorted by pressure. One can do this as follows:  
>  
>     i1 = sort(P)               ;Secondary sort on pressure  
>     i2 = bsort(T)             ;primary sort on temperature  
>  
> and i2 will give the desired indexing.  
> Of course, BSORT will be slower than the intrinsic SORT function.  
>  
> Wayne Landsman                landsman@mpb.gsfc.nasa.gov

For this purpose, I have written a multisort routine that is (hopefully)  
still available at  
<http://www-as.harvard.edu/chemistry/trop/staff/mgs/idl>  
This allows "hierarchical" sorting for (I believe) up to 5 variables.

Usage: multisort,array,index= [,revert=[0,1,0] ]  
to sort a >= 3-dimensional array for primary key 'column 2', secondary  
key 'column 1' and tertiary key 'column 3'. The revert option allows you  
to do an inverse sort for any hierarchy level.

I'd be interested to know how multisort performs compared to the bsort  
method you proposed.

Cheers,  
Martin

--

```
[[ Dr. Martin Schultz Max-Planck-Institut fuer Meteorologie  [[  
[[ Bundesstr. 55, 20146 Hamburg [[  
[[ phone: +49 40 41173-308 [[  
[[ fax: +49 40 41173-298 [[  
[[ martin.schultz@dkrz.de [[  
[[
```

---