Subject: Re: Inconsistency: "sort" on UNIX <-> Windows
Posted by Liam E. Gumley on Fri, 07 Jul 2000 07:00:00 GMT
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Daniel Luebbert wrote:
> I've been using the "sort" routine to sort an 2D-array by increasing
> values of its first column.
> The "sort" routine seems to behave differently in the UNIX and the
> Windows versions of IDL5.3.
>
> Here is a little test routine I wrote:
>
> ;*************************
> pro test_sort
> data = [[1,3], $
>   [2,5], $
>   [1,4], $
>   [4,7], $
>   [1,2] $
>   ]
>
> print,"original: "
> print,data
> print,"sorted: "
> print,data[*,sort(data[0,*])]
> end
> ;*************************
>
> The result on UNIX (Linux) is what I would expect:
>
> ;*************************
> original:
>
>   1   3
>
>   2   5
>
>   1   4
>
>   4   7
>
>   1   2
>
> sorted:
>
>   1   3
>
>   1   4

```
>
>     1     2
>
>     2     5
>
>     4     7
>
> ;************************
>
> BUT: The result on Windows is different:
>
> ;************************
> original:
>     1     3
>     2     5
>     1     4
>     4     7
>     1     2
> sorted:
>     1     2
>     1     4
>     1     3
>     2     5
>     4     7
> ;************************
>
> In other words: The "sort" routine on Windows doesn't preserve the
> original order of entries which have the same value (see the 3
> "1"-values in my test data), but apparently rearranges them in a random
> way.
>
> What I'd like to know is:
> How can it be that such a basic routine behaves differently in differnet
> implementations of IDL?
>
> And, more importantly: can anybody tell me how to make the
> Windows-version of "sort" behave correctly,
> without writing my own routine for sorting?
```

Search for 'BSORT' at
 http://www.astro.washington.edu/deutsch/idl/htmlhelp/index.h tml

Cheers,
Liam.
http://cimss.ssec.wisc.edu/~gumley