Subject: Re: Multi-column sort
Posted by Percy Pugwash on Mon, 05 Mar 2012 10:59:21 GMT
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\*\*bear in mind.

Р

Oh dear...

On Monday, 5 March 2012 10:53:17 UTC, Percy Pugwash wrote:

> Thanks very much. I had looked at Craig Markwardt's multisort, but it didn't quite do what I wanted (the number of columns to sort by was limited and could not easily be changed at run-time).

>

- > I've not looked at bsort yet, but will have a look, thanks. My only concern is that I'm aware that bubble sort is usually much slower than quicksort, which I believe sort() uses... Might still be worth it though.
- > The solution I came up with is below, in case anyone is interested. Please bare in mind that it has not been properly tested, but seems to be working.

```
> P
>
> function sort_strcolumns, strtable, indices
    maxlen = max(strlen(strtable[abs(indices),*]))
>
    ncols = n_elements(indices)
>
    nrows = (size(strtable,/dim))[1]
    sortlist = reform(string(strtable[abs(indices),*],f='(a-'+string(maxlen
,f='(i0)')+')'),ncols,nrows,/overwrite)
    sortlist = reform(byte(sortlist),maxlen*ncols,nrows,/overwrite)
    for i=0,n_elements(indices)*maxlen-1 do sortlist[i,*] *= (-1)^(indices[i/maxlen] lt 0)
>
    return, sort(string(sortlist))
>
> end
>
```

> On Friday, 2 March 2012 12:26:00 UTC, Gianguido Cianci wrote:

>> Firstly, sort() does not maintain the order of identical elements so I'd use bsort() which you can find online somewhere, can't remember where... I believe it has a /reverse or /invert option, not at my computer right now.

>>

>> Secondly, you should boort columns in increasing order of importance, with the most important sort last.

>>

>> I have a dumb for-loop procedure that does that. This requires multiple searches through the array, which might not be optimal, but once you write it, you'll never use sort instead of bsort again :-)

>>

>> G