
Subject: Re: Box-Whisker plots in IDL

Posted by [Marshall Perrin](#) on Tue, 21 Aug 2007 00:37:53 GMT

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teich@atmsci.msrc.sunysb.edu <teich@atmsci.msrc.sunysb.edu> wrote:

```
> lower_ind=where(sorted_data lt median(sorted_data,/even))
> upper_ind=where(sorted_data gt median(sorted_data,/even))
> qtr_25th=median(sorted_data[lower_ind(0):lower_ind(n_elements(lower_ind)-1)],/
> even)
> qtr_75th=median(sorted_data[upper_ind(0):upper_ind(n_elements(upper_ind)-1)],/
> even)
```

Pardon me, but I think your calculation for the 25th and 75th percentiles here is in deep trouble. lower_ind is a set of discrete and discontinuous indices, so it's not correct to subscript sorted_data using the range construct like that! You really want just

```
qtr_25th=median(sorted_data[lower_ind])
qtr_75th=median(sorted_data[upper_ind])
```

Cheers,

- Marshall
