Subject: Re: Box-Whisker plots in IDL
Posted by teich on Mon, 20 Aug 2007 19:18:35 GMT
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On Aug 20, 3:01 pm, Brian Larsen <balar...@gmail.com> wrote:
> When you solve this problem if you wouldn't mind posting the function/
> procedure you come up with I would love to have a copy as I sometimes
> do those and haven't had the time/patience to implement them in idl
> yet.
>
> Cheers,
>
> Brian
>
> ---------- ---------- ------
> Brian Larsen
> Boston University
> Center for Space Physics

Well, I am looking into the histogram procedure, but I am not getting what I think the 25th and 75th quartiles should be. It seems histogram is not so easy to master. What I am looking into is doing the following:

data=randomu(sd,100)*100
box plot needs min, max, median which are straight forward:

min(data)
max(data)
median(data,/even)

For the quartiles I am trying:

lower_ind=where(data lt median(data,/even))
upper_ind=where(data gt median(data,/even))
qtr_25th=median(data[lower_ind(0):lower_ind(n_elements(lower _ind)-1)],/even)
qtr_75th=median(data[upper_ind(0):upper_ind(n_elements(upper _ind)-1)],/even)

However, I think this would work only for a monotonically increasing array. I am not sure how to get 'data' like that. If anyone wants to add to this, feel free.

How