
Subject: Sort and Where

Posted by [Simon de Vet](#) on Thu, 29 Jun 2000 07:00:00 GMT

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I have a big array of data, and wish to plot one part of it against another.

On the x-axis I want :

```
pem1(flight, where(pem1(4,*,6) gt 0.0 and pem1(4,*,9) gt 0.0),  
9)
```

And on the y-axis I want:

```
pem1(flight, where(pem1(4,*,6) gt 0.0 and pem1(4,*,9) gt 0.0),  
6)
```

I have used negative numbers to indicate missing data, so these are just all the values where both an x and a y coordinate exist.

If I plot one vs the other, it works perfectly. However, I would like to connect the points together, so the y-coordinates (in my case) must be in ascending order. I try to use sort.

New x-axis:

```
pem1(flight, sort(pem1(flight, where(pem1(4,*,6) gt 0.0 and  
pem1(4,*,9) gt 0.0), 6)), 9)
```

New y-axis:

```
pem1(flight, sort(pem1(flight, where(pem1(4,*,6) gt 0.0 and  
pem1(4,*,9) gt 0.0), 6)), 6)
```

I assumed that this would sort both in the order of the y-coordinates. However, when I use these values, my negative values reappear.

I think that this may have something to do with the Where statement. Originally, I only culled the negative y-coordinates, and then it sorted fine. The problems started when I started eliminating values with a negative x or y coordinate.

I should probably mention that after staring at these 2 lines for 45 minutes my brain is turning to mush.

Anyone know what's going on? Anyone have a simple solution?

Simon
