
Subject: Re: plot legends - pvwave
Posted by [rep2857](#) on Mon, 21 Aug 1995 07:00:00 GMT
[View Forum Message](#) <> [Reply to Message](#)

In article <414qlu\$ts7@seralph9.essex.ac.uk>,
Pearson J E <jepear@essex.ac.uk> wrote:
> My query concerns the addition of legends on plots created by pvwave.
>
> As I understand it, the positioning of a legend can only be accomplished by
> using the XYOUTS function where x and y represent coordinates corresponding to
> the x and y axis of the plot. In my situation I have a 2D graph whose axis can
> vary significantly depending on choices made in the program. Therefore by using
> the XYOUTS function my words often can end up on top of each other or not even
> on the plot itself.
>
> Is there anyway of making the positioning of the legend independent of the x
> and
> y axis of the plot ??

Cc'd to jepear@essex.ac.uk

Sure. XYOUTS can position data anywhere (even off the drawing area as I have inadvertently found out on several occasions). The key is to use device coordinates rather than plot coordinates for positioning. The !X.S and !Y.S variables return the normalized coordinates of the scaling factors used in positioning the plot frame. The upper right coordinate of the plot frame can be determined with the following commands:

```
xoff = !D.X_VSize * (!X.S(0) + !X.S(1) * !X.CRange(1))  
yoff = !D.Y_VSize * (!Y.S(0) + !Y.S(1) * !Y.CRange(1))  
xyouts, xoff, yoff, /device, 'Legend'
```

Add a little space in the X direction based on something like the window dimensions and you have the starting coordinates for your legend. Increment Y by some value say !D.Y_Ch_Size * 1.1 or whatever seems to be appropriate for additional legend titles.

Mike Schienle Hughes Santa Barbara Research Center
Home: mgs@seldon.terminus.com Work: rep2857@sbsun0010.sbrc.hac.com
Contract Employee - Will visualize data for large amounts of money
