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Subject: Re: Bug in XYOUTS?

Posted by [Martin Schultz](#) on Sat, 28 Nov 1998 08:00:00 GMT

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Vinay L. Kashyap wrote:

> Anyone know why XYOUTS "wraps" back? Why does it place labels  
> on the plot area even though the specified locations are way  
> outside the view area?  
>  
> Here is an example of what I mean..  
>  
>     xr=[99.9,100.1] & yr=[-20,20] ;define the plotting area  
>     x=findgen(1000)\*0.1+100.     ;points at which to mark labels  
>                                     ;(expect only 2 within defined area)  
>     y=randomn(seed,1000)\*5.     ;y-locations, staggered for readability  
>     l=strtrim(x,2)             ;labels, same as x-positions  
>     plot,[0],xrange=xr,yrange=yr ;set up plotting area  
>     xyouts,x,y,l             ;plot the labels  
>  
> the actual numbers that show up on the viewing area appear to  
> depend on the size of the window and XRANGE. Sometimes there  
> are also horizontal lines running across the window.  
>  
> this does not happen if one sets plotting device to 'ps'  
>  
> thanks to Jim Petreshock, I do have a workaround (use keyword  
> NOCLIP=0 for XYOUTS), but this feature is so strange that I  
> would like to know the explanation, if anyone knows it!  
>  
> I am using IDL4 and IDL5.1 on Solaris 2.5 .  
>  
> Thanks,  
> Vinay  
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> Vinay Kashyap                     617 495 7173 [P146] 617 591 9492 [H]

Hi Vinay,

haven't shown up at Badminton for a while now -- probably because I am doing

too much IDL ;-)

I don't know the solution to your problem, but it is the same that happens with plots. Apparently, IDL prefers not to clip anything in these two routines.

I believe, it does some kind of conversion to integer arithmetics for speed reasons and then ends up at the wrong memory locations. Interestingly, though, plots does plot the symbols at the correct y locations ... If NOCLIP=0 works, that's good to know. Otherwise you'll have to manually clip your labels like

```
ind = where(x ge !x.crange[0] AND x le !x.crange[1] AND y ge !y.crange[0] AND  
y le !y.crange[1]) ; after the plot command!  
xyouts,x[ind],y[ind],l[ind]
```

Regards,  
Martin.

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