Subject: Re: How to add values over bars which I plotted? Posted by David Fanning on Fri, 17 Dec 2004 23:05:10 GMT View Forum Message <> Reply to Message

## Hang Gao writes:

- > I plotted 12 bars by using bar\_plot.pro. Now, what I want to do is to
- > add the 12 individual values over the top of 12 bars, which I often
- > did in EXCEL. I tried to use xyouts procedure, but I was not sure
- > about the x-positions where I suppose to add my vaules. How to know
- > the exact x positions where IDL added 12 barnames automaticly? A
- > further question: how to determine the distance between 2 y axises?

>

- > For example, I bar\_plotted: indgen(12). now I want to add the value
- > [0,1,...11]
- > over the 12 bars I plotted. Then how to do it?

This turned out to be a little harder than I thought it should have been. :-)

I had to add a keyword to BAR\_PLOT to get it to work, since I need to know where the program drew the bars and it wouldn't tell me. By examining the program, I could see the information I needed was in the variable "ticks", so I just created a TICKS keyword on BAR\_PLOT:

```
Pro Bar_Plot, data, ...., TICKS=ticks
```

Then, I got the labels on like this:

```
data = indgen(12) + 2
x = indgen(12) + 0.5
Loadct, 5, NColors=13
bar_plot, data, Colors=Indgen(12)+1, tickv=tickv
skosh = (!Y.CRange[1] - !Y.CRange[0]) / 40.

FOR j=0,N_Elements(data)-1 DO $
    XYOUTS, tickv[j], data[j]+skosh, Align=0.5, $
    StrTrim(data[j],2),/Data
```

The "skosh" variable would probably be expressed in normalized coordinates, then converted to DATA coordinates with Coord\_Convert if I were doing this for real. :-)

Cheers,

David

P.S. While you are adding keywords, this program could use a POSITION keyword, too.

David Fanning, Ph.D. Fanning Software Consulting, Inc. Coyote's Guide to IDL Programming: http://www.dfanning.com/