
Subject: Re: How should I mark annotations in multi plot window
Posted by [David Fanning](#) on Thu, 24 Nov 2005 06:00:42 GMT
[View Forum Message](#) <> [Reply to Message](#)

Naresh writes:

> I have 16 subplots in a graphics widget. In that some different
> types of waveforms are present. My job is to mark the start and end
> point of waveform and high-light that duration of signal. To complicate
> further, each waveform should have different color coding. Now where I
> am exactly facing the problem is in highlighting and color coding. I
> can find out start and end point of waveform but filling that box with
> color is becoming problem. More over it is a multiplot graphics so some
> time half the waveform is one subplot and second half will be in next
> subplot. I tried to use graphics xor mode but I have not got the
> desired results.
> Do you guys have any idea.

If you can find the end points of your box, you must be in the right data coordinate place. You can find the right data value close to your box end points by using `VALUE_LOCATE`. You want to draw all the points between the two you locate in a different color. I would just plot with `PLOTS` and the `COLOR` keyword set to the color you want.

The problem is really just at the end points. Depending on how densely sampled your data points are, your box end points may not match up exactly with your data points. In that case, you may have to interpolate between the point you find with `VALUE_LOCATE` and the next closest point in the direction of the box end point. Thus, the vector you plot with `PLOTS` may have one (or two) additional points at either end that will correspond with the actual box end points.

(Turns out this was *another* program we wrote last week. Or something very close to it. Boy, we were really on a roll!)

Cheers,

David

--

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