
Subject: Re: Make TV a function of X?

Posted by [wbiagiot](#) on Fri, 07 Jan 2000 08:00:00 GMT

[View Forum Message](#) <> [Reply to Message](#)

In article <854pqn\$lpas1@nnrp1.deja.com>,
raoulduke@my-deja.com wrote:

>
> I am thinking I will have to make some sort of fake data set by
> making a fake time array and put the data in where it exists, and
> fill it with zeros where it doesn't. Yuck! This has to be
> a common problem, so has anyone else thought of a solution?
>
> Cheers

Raoul,

Well here's a long shot. I took interest in your problem because there is a possibility that I might encounter something similar.

Try a thumbnail approach:

In window A, display the main waveform over the entire time span resampled to some reasonable data length (2k-8k pts ?). Make sure that every pulse GROUP is represented on the plot, even if you have to do it artificially - avoid aliasing. This is kinda like a thumbnail. Enable the window for mouse events. Allow the user to place the mouse anywhere on the plot (choosing a pulse train of interest) and click. Decode the event, obtain the X position of the mouse and translate it into units of your X scale. That should determine which group of pulses is being targeted. Knowing that, pop up a secondary plot window showing that pulse train in detail - possibly using a plot with a slider on the X display range if the number of points is large.

The alternative is to have the 2nd window track the mouse in realtime - decoding on the fly and presenting the data continuously. The 2nd window would only update if the mouse is over an 'active region'.

Obviously, this is just an outline with a lot of gaps to be filled in. I have used some parts of this idea on images (which are waveforms anyway) and am very satisfied with the results. Learned a lot of IDL functionality in the process.

Good Luck,

Bill B.

--

"They don't think it be like it is, but it do."

Oscar Gamble, NY Yankees

Sent via Deja.com <http://www.deja.com/>
Before you buy.
