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Subject: Re: IDL Strip Chart

Posted by [Haje Korth](#) on Thu, 09 Sep 2004 19:37:27 GMT

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I would define the maximum length of the arrays before hand. Appending can take fairly long once arrays get large. That is at least the experience I had in the past.

Haje

"R.G. Stockwell" <noemail@please.com> wrote in message

news:EW00d.17\$ts4.29302@news.uswest.net...

> <pestMay@gmail.com> wrote in message

news:MIO%c.17702\$iS.1208@newssvr29.news.prodigy.com...

>> For anyone involved in real-time data collection (e.g., atmospheric data,

>> heart-rate,

>> other physiological data) display this data as it arrives, say on a serial

>> port, is essential

>> in monitoring the data stream.

>>

>> There are many commercial hardware/software solutions (e.g., BIO-PAC) and an

>> IDL

>> competitor, MATLAB, has one. The X-axis is always time, and often there are

>> a number of

>> channels of data that might include an event marker (e.g., we just launched

>> the weather sound,

>> a subject in an experiment pressed a button, etc.).

>>

>> Ed May

>

>

> I had a few minutes to kill before a meeting, so here is a quicky strip chart

> in direct graphics. It is not the most efficient thing ever, but it will give you

> a starting point.

>

> Cheers,

> bob

>

>

>

>

```
> xr = [0,100]
> yr=[-4,4]
>
> plot,fltarr(1),xr=xr,yr=yr
>
> timeincrement = 1 ; the sample interval
> datacounter = 0
>
> datetime = !values.f_nan
> data = !values.f_nan
>
>
>
> for i = 0,1000 do begin
>   ; make measurement
>   newdata = (randomn(seed,1))[0]
>   datetime = [datetime,i]
>   data = [data,newdata]
>   datacounter = datacounter+1
>
>   if datacounter gt 50 then begin
>     ;shift the axis
>     xr = xr + timeincrement
>
>     ;redraw data
>     plot,datetime,data,xr=xr,yr=yr,psym=-4
>
>   endif else begin
>     if i gt 0 then begin
>       plots,datetime[datacounter],data[datacounter],psym=-4,/data, /continue
>     endif else begin
>       plots,datetime[datacounter],data[datacounter],psym=4,/data
>     endelse
>   endelse
>   wait,0.1
>
> endfor
>
>
> end
>
>
```

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