Subject: Re: IDL Strip Chart
Posted by R.G. Stockwell on Thu, 09 Sep 2004 18:02:40 GMT
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<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

datatime = !values.f_nan
data = !values.f_nan



for i = 0,1000 do begin
 ; make measurement
```

```
 newdata = (randomn(seed,1))[0]
 datatime = [datatime,i]
 data = [data,newdata]
 datacounter = datacounter+1

 if datacounter gt 50 then begin
  ;shift the axis
  xr = xr + timeincrement

  ;redraw data
  plot,datatime,data,xr=xr,yr=yr,psym=-4

 endif else begin
  if i gt 0 then begin
    plots,datatime[datacounter],data[datacounter],psym=-4,/data, /continue
  endif else begin
   plots,datatime[datacounter],data[datacounter],psym=4,/data
  endelse
 endelse
 wait,0.1

endfor


end
```