In article <1995Aug2.161654.29779@news.wrc.xerox.com>, jeyadev@kaveri (Surendar Jeyadev) writes:
|> I would greatly appreciate if someone can give me a hint on how to
|> accomplish the following task in PV Wave.
|>
|>
|>      x = findgen(100)/10.0      x = findgen(100)/10.0
|>      y = exp(-0.1*x)*sin(4*x)
|>      plot, x, y              ; plot decaying sin in !d.window=0
|>
|>      wset, 1
|>      y = exp(0.1*x)*cos(4*x)
|>      plot, x, y              ; plot rising   cos in !d.window=1
|>
|>      wset, 0
|>      oplot, x, 0.1*x         ; plot straight line in !d.window=0
|>
|>      end
|>
|> So, the question is, can I accomplish what I would like to do in a
|> simple way. Or do I have to store the scaling information for window "0"
|> and set that each time I return to it? Unfortunately, the scale factors
|> are vastly different for the two windows.
|>
|> Thanks
|> --
|>
|> Surendar Jeyadev       jeyadev@wrc.xerox.com

Yep, saving the plotting system variables is exactly what you do. Its not that
bad, however. The following simple-minded way will suffice.

```
x = findgen(100)/10.0
y = exp(-0.1*x)*sin(4*x)
plot, x, y

;save the settings
pstate0 = !P
xstate0 = !X
ystate0 = !Y
zstate0 = !Z

wset, 1
y = exp( 0.1*x)*cos(4*x)
```

```
  plot, x, y

  ;save new settings
  pstate1 = !P
  xstate1 = !X
  ystate1 = !Y
  zstate1 = !Z

  ;now proceed to overplot at will :)

  wset, 0

  ;restore old settings
  !P = pstate0
  !X = xstate0
  !Y = ystate0
  !Z = zstate0

  oplot, x, 0.1*X
```

etc, etc. As usual, there are more complicated ways of doing this, but you
get the idea ;)

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This is not necessarily the opinion of Texaco Inc.