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Subject: How to make this work? Oplot question.  
Posted by [jeyadev](#) on Wed, 02 Aug 1995 07:00:00 GMT  
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I would greatly appreciate if someone can give me a hint on how to accomplish the following task in PV Wave.

- 1) I have two plotting windows and procedures that (over)plot data in each window. I want to keep overplotting in the first window but not in the second one (but I think that this does not matter) by calling procedures that set the current window as required and then draw the (over)plot.
- 2) On the first round one of these procedures plots in `!d.window=0` and then plots in `!d.window =1`, which I get to by using `"wset, 1"`. The procedure then resets the current window by using `"wset, 0"`.
- 3) On the second round I call a procedure that needs to overplot data in the first window ("`0`") and plot in the second window ("`1`").

In step 3 I find that while data is correctly plotted in the *\*second\** window, the overplot portion of the procedure is not drawn in the first window. I realized that the reason that this was happening is that the oplot part in the second round (to overplot data in window "`0`") was using the scaling information resulting from the "plot" call in the first round for plotting in window *\*"1"*.

I have a simple *\*main program\** that exhibits this feature:

```
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
```

Before I run the program, I create window "`1`" and then issue `"wset, 0"`. I find the the decaying sin and the rising cos are correctly plotted in, respectively, windows "`0`" and "`1`", but that the straight line is not correctly overplotted in window "`0`" because the scaling used is that

for the rising cos rather than the existing decaying sin plot.

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

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