
Subject: Having Problems Plotting Graphs On PV-WAVE

Posted by [anadeem](#) on Tue, 03 Aug 1993 19:20:51 GMT

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Fellow Netters,

.....I am trying to develop a .pro file for use to plot out graphs using PV-WAVE. I am trying to plot the values in data files called spline.dat and derivati.dat versus the values in the data file x.dat.

Below is a sample .pro I am working on. For some reason, I can plot the values of spline versus x but not derivati versus x on the same plot. As you can see, I have expanded the range of values of the axes when I use the plot command. Upon using the oplot command, I just get a straight line passing through the first value of derivati.dat (I mean horizontal straight line) which should not be the case as the values vary considerably.

```
x = fltarr(2000)
```

```
openr, 1, 'x.dat'      ; OPEN A FILE TO BE READ INTO X ARRAY
i = 0
while not eof(1) do begin
  readf, 1, temp1
  x(i) = temp1
  i = i+1
endwhile
close, 1              ; CLOSE UNIT FILE
print, i
```

```
spline = fltarr(2000)
openr, 1, 'spline.dat' ; OPEN SPLINE.DAT WITH SPLINE VALUES
i = 0
while not eof(1) do begin
  readf, 1, temp1
  spline(i) = temp1
  i = i + 1
endwhile
close, 1              ; CLOSE UNIT FILE
print, i
```

```
derivati = fltarr(2000)
openr, 1, 'derivati.dat' ; OPEN FILE WITH DERIVATIVE VALUES
i = 0
while not eof(1) do begin
  readf, 1, temp1
  derivati(i) = temp1
```

```
i = i +1
endwhile
close, 1          ; CLOSE UNIT FILE
print, i

plot, x, derivati, title='Graph Of Spline And Derivatives',XRange=[0,4],$
      YRange = [-70,+70]

oplot, spline, linestyle =2

End
```

What am I doing wrong? I really need to get this done badly. Any help
would be highly appreciated.

Thank You,
Ahmed Nadeem
