
Subject: Bug in PV Wave plot_oo?

Posted by [jeyadev](#) on Fri, 10 Mar 1995 17:37:28 GMT

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I believe that I have come across what seems to be a bug in the PLOT_OO routine of PV Wave. I wish to plot the data set

```
0.49289D+01  0.90121D-01
0.47028D+01  0.93729D-01
0.44767D+01  0.96606D-01
0.42505D+01  0.98834D-01
0.40244D+01  0.10047D+00
0.37983D+01  0.10155D+00
0.35722D+01  0.10209D+00
0.33460D+01  0.10212D+00
0.31199D+01  0.10162D+00
0.28938D+01  0.10059D+00
0.26677D+01  0.99012D-01
0.24416D+01  0.96842D-01
0.22154D+01  0.94028D-01
0.19893D+01  0.90493D-01
0.17632D+01  0.86121D-01
0.15371D+01  0.80738D-01
0.13109D+01  0.74068D-01
0.10848D+01  0.65625D-01
0.85868D+00  0.54413D-01
0.63256D+00  0.37578D-01
0.40644D+00  0.69207D-04
```

with 'x' being the first column and the 'y' the second. The catch is that I would like the y axis to be restricted to the range [0.03, 0.3]. So I issue the command

```
plot_oo, x, y, xrange = [1,100], yrange = [0.03, 0.3]
```

and what I get is a plot with the y axis ticks being completely messed up, but for the tick at 0.1. Messing around, I discovered that Wave seems to have a problem in locating the tick marks correctly if one complete decade starting or ending at a power of 10 is not used for the range. I would guess that this is a well known problem. Does anyone know of a workaround?

An associated problem is the following. When yrange is set to [0.1,0.3] for the *same* data, there is, as expected, one tick along the y axis at 0.2. But the label at the upper end of the y axis is messed up. It reads 1.0 instead of 0.3. Again, I would guess that this is a well known effect. Any simple workarounds?

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