
Subject: Re: Improved plotting of DOUBLE data
Posted by [luthi](#) on Fri, 18 Jun 1999 07:00:00 GMT

[View Forum Message](#) <> [Reply to Message](#)

Liam

You are perfectly right that the `plot_dbl` works well together with the `oplot_dbl` procedure. But this only solves the problem for `oplot`, but not for `contour`, `surface` aso. Since there would be no difficulty implementig this in the style of `oplot_dbl`, it would take me at least one day of tedious work and I think that this is, why we pay licenses to VNI or RSI.

One thing I would like to point out again: These plotting behaviour has been known since 1995 by the technical staff at VNI/RSI who provided the workarounds you mentioned (see the procedure header!). Since then three major versions of PV-Wave have been released but the bug remains unnoticed by most users (including me, who always trusted the plots produced by PV-Wave). How many scientific results were misinterpreted due to inaccuracies in the plotting routines?

By the way I don't think that the limitation of the plotting routines stems from the use of single precision floats alone, but also from some basic design flaws of these plotting routines. These errors manifest themselves in the sometimes weird behaviour of plotting on date/time axes.

I would really like to see some `plot/oplot/contour` procedures which always work, and be it the workarounds of `plot_dbl`, `oplot_dbl`, `surface_dbl` (yet inexistent) ...

Cheers

Martin

--

```
=====
Martin Luethi  Tel. +41 1 632 40 92
Glaciology Section Fax. +41 1 632 11 92
VAW ETH Zuerich
CH-8092 Zuerich  mail luthi@vaw.baum.ethz.ch
Switzerland
=====
```