

nlmrt-vignette

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Background

This vignette discusses the (at time of writing **experimental** R package **nlmrt**, that aims to provide computationally robust tools for nonlinear least squares problems. Note that R already has the **nls()** function to solve nonlinear least squares problems, and this function has a large repertoire of tools for such problems. However, it is specifically NOT indicated for problems where the residuals are small or zero. Furthermore, it frequently fails to find a solution if starting parameters are provided that are not close enough to a solution. The tools of **nlmrt** are very much intended to cope with both these issues.

nlmrt tools generally do not return the large **nls**-style object. However, we do provide a tool **wrapnls** that will run either **nlsminq** for unconstrained problems or **nlsminqb** for bounds constrained problems followed by an appropriate call to **nls**.

An example problem