

# Package ‘mlt.docreg’

July 23, 2025

**Title** Most Likely Transformations: Documentation and Regression Tests

**Version** 1.1-10

**Date** 2024-11-19

**Description** Additional documentation, a package vignette and regression tests for package mlt.

**Depends** mlt ( $\geq$  1.3-2)

**Imports** numDeriv, stats, eha, multcomp ( $\geq$  1.4-4), lattice, survival, flexsurv, truncreg

**Suggests** variables, basefun, MASS, TH.data, knitr, prodlim, gridExtra, nnet, mgcv, HSAUR3, sandwich, grid, latticeExtra, colorspace, Matrix, AER, coin, gamlss.data, mlbench, tram ( $\geq$  0.6-0), rms

**VignetteBuilder** knitr

**URL** <http://ctm.R-forge.R-project.org>

**License** GPL-2

**NeedsCompilation** no

**Author** Torsten Hothorn [aut, cre] (ORCID:  
<<https://orcid.org/0000-0001-8301-0471>>)

**Maintainer** Torsten Hothorn <Torsten.Hothorn@R-project.org>

**Repository** CRAN

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`checkGH`*Check Gradient and Hessian*

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**Description**

Check analytic gradient and hessian against their numerical approximation

**Usage**

```
checkGH(object, tol)
```

**Arguments**

|                     |                                                                     |
|---------------------|---------------------------------------------------------------------|
| <code>object</code> | an object of class <code>mlt</code> as returned by <code>mlt</code> |
| <code>tol</code>    | tolerance, passed to <code>all.equal</code> .                       |

**Details**

Computes the gradient and hessian analytically and numerically and compares the two. Warnings are suppressed for the numerical approximations as they are not aware of model constraints which might get violated.

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