

Package: nonmem2mrgsolve (via r-universe)

October 17, 2026

Type Package

Title Automated NONMEM to mrgsolve Translation

Version 1.2.0

Author Andrew Santulli

Maintainer Andrew Santulli <asantulli@epd-llc.com>

Description This package is intended to streamline the modeling and simulation process for PK and PK-PD applications by translating NONMEM models to mrgsolve syntax. It currently does not encompass all NONMEM use cases, and as such modifications to the output mrgsolve code may be necessary. There is no guarantee to the accuracy of the translation. It remains the responsibility of the user to perform validation of the resulting mrgsolve code.

License GPL (>=2)

Encoding UTF-8

LazyData true

Depends R (>= 4.1.0)

Imports dplyr (>= 1.0.7), stringr (>= 1.4.0), stringi (>= 1.6.2), zoo (>= 1.8-9), magrittr

Exports load_ctl, load_ext, nonmem2mrgsolve, writemrgsolve

RoxygenNote 7.1.1

Config/pak/sysreqs libicu-dev

Repository <https://stevechoy.r-universe.dev>

Date/Publication 2025-03-18 17:44:59 UTC

RemoteUrl <https://github.com/Andy00000000000/nonmem2mrgsolve>

RemoteRef HEAD

RemoteSha eed7794c17d76ef9316376b108ec3c0ecbf85728

Contents

load_ctl	2
load_ext	2
nonmem2mrgsolve	3
writemrgsolve	4

Index	5
--------------	----------

load_ctl	<i>Load NONMEM ctl (or mod) file into R</i>
----------	---

Description

Loads the NONMEM ctl (or mod) file into R for translation to mrgsolve format.

Usage

```
load_ctl(filename = NULL, dir = "")
```

Arguments

filename	String of the NONMEM model name without the .ctl (or .mod) extension
dir	String of the directory path to the NONMEM run files

Value

R dataframe of the NONMEM ctl (or mod) file

Examples

```
# load_ctl(filename = "nonmem-model", dir = "path/to/directory/")
```

load_ext	<i>Load NONMEM ext file into R</i>
----------	------------------------------------

Description

Loads the NONMEM ext file into R for capture of the final estimates.

Usage

```
load_ext(filename = NULL, dir = "", sigdig = -1, use.cnv = F)
```

Arguments

filename	String of the NONMEM model name without the .ext extension
dir	String of the directory path to the NONMEM run files
sigdig	Numeric of the number of significant digits to round non-fixed thetas and etas to; -1 for no rounding
use.cnv	Logical for whether to use the NONMEM cnv file for final parameter estimates instead of the ext file (T or F)

Value

R list of the NONMEM final OFV, parameter estimates, and IIV magnitudes

Examples

```
load_ext(filename = "nonmem-model", dir = "path/to/directory/")
```

nonmem2mrgsolve	<i>Automated NONMEM to mrgsolve Translation</i>
-----------------	---

Description

Translates a NONMEM model into mrgsolve syntax using the NONMEM ctl and ext (or cnv) files.

Usage

```
nonmem2mrgsolve(
  filename = NULL,
  dir = NULL,
  sigdig = NULL,
  write = T,
  return.orig = F,
  out.filename = NULL,
  use.cnv = F
)
```

Arguments

filename	String of the NONMEM model name with or without the .ctl (or .mod) extension
dir	String of the directory path to the NONMEM files (if not already given in the filename input; or if the working directory was not already set)
sigdig	Numeric of the number of significant digits to round non-fixed thetas and etas to; default NULL for no rounding
write	Logical for whether to write the mrgsolve code to an R file (T or F)
return.orig	Logical for whether to output the original NONMEM ctl and ext files (T or F)

<code>out.filename</code>	String of the name for the mrgsolve output file without the .R extension
<code>use.cnv</code>	Logical for whether to use the NONMEM cnv file for final parameter estimates instead of the ext file (T or F)

Value

R dataframe of the mrgsolve code

Examples

```
# setwd("path/to/directory")
# nonmem2mrgsolve::nonmem2mrgsolve(filename = "nonmem-model.ctl")
```

writemrgsolve	<i>Write the mrgsolve code to an R file</i>
---------------	---

Description

Writes the mrgsolve code, translated from the input NONMEM run, to an R file.

Usage

```
writemrgsolve(mrg_code = NULL, filename = "mrgsolve_code0", dir = NULL)
```

Arguments

<code>mrg_code</code>	Dataframe of the NONMEM model translated into mrgsolve code
<code>filename</code>	String of the name for the mrgsolve output file without the .R extension
<code>dir</code>	String of the directory path to the NONMEM run files

Value

R file of the mrgsolve code

Examples

```
# writemrgsolve()
```

Index

load_ctl, [2](#)

load_ext, [2](#)

nonmem2mrgsolve, [3](#)

writemrgsolve, [4](#)