Package: HARr (via r-universe)

August 21, 2024

Type Package

Title HAR (GEMPACK) file read/write utility

Version 1.1.0

Description This package reads/writes HAR files (and SL4 files) directly using basic R functions

License open

Encoding UTF-8

LazyData true

RoxygenNote 7.2.3

Repository https://pik-piam.r-universe.dev

RemoteUrl https://github.com/pfuehrlich-pik/HARr

RemoteRef HEAD

RemoteSha 0eb7d180acd4d1b8df0b4e1a7b3ba3e477bf6d18

Contents

`read_har` *Read a GEMPACK HAR file into R*

Description

Reads in a GEMPACK HAR file and returns its representation a list. Currently can only process integer headers, real full headers and character headers

Usage

```
read_har(con, useCoefficientsAsNames = FALSE, toLowerCase = TRUE)
```

Arguments

useCoefficientsAsNames	If a coefficient name is present in the header, use that instead of the four-letter header
filename	Path to HAR file

Value

A list of headers

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read_SL4 *Read an SL4 solution file*

Description

This function reads SL4 solution files into a list

Usage

```
read_SL4(filename, toLowerCase = TRUE)
```

Arguments

filename	Path to SL4 file

Value

A list of variables

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write_har *Write an R list to GEMPACK HAR*

Description

This function writes a HAR file based on a list. If a list element contains attribute "description," then it is used to define the long header name

Some warnings: (1) you cannot have NA's in a HAR file, (2) empty strings are not allowed, (3) some programs (e.g., GEMPACK models) read chunks of data no longer than 1e4 bytes (set maxSize = 1e4), (4) all dimensions in arrays must have names (see example)

Usage

```
write_har(data, filename, maxSize = 10000)
```

Arguments

data	A list

Examples

```
myList = list(TEST = c('Test'))
attr(myList$TEST,'description') = "This is the long header name"
write_har(myList,'harfile.har')
```

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