

Package ‘rswipl’

July 9, 2024

Type Package

Title Embed 'SWI'-Prolog'

Version 9.3.7.2

Date 2024-07-06

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Description Interface to 'SWI'-Prolog', <<https://www.swi-prolog.org/>>. This package is normally not loaded directly, please refer to package 'rolog' instead. The purpose of this package is to provide the 'Prolog' runtime on systems that do not have a software installation of 'SWI'-Prolog'.

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Imports Rcpp (>= 1.0.7)

Depends R (>= 4.2)

URL <https://github.com/mgondan/rswipl>

BugReports <https://github.com/mgondan/rswipl/issues>

LinkingTo Rcpp

RoxygenNote 7.3.1

Encoding UTF-8

SystemRequirements GNU make, CMake (>= 3.10), pandoc, libarchive, libregex, libexpat, liblzma, libzstd, liblz4, libz2, libz, libbcbcrypt

NeedsCompilation yes

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Repository CRAN

Date/Publication 2024-07-09 10:00:02 UTC

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| | |
|-------|----------------------------|
| clear | <i>Clear current query</i> |
|-------|----------------------------|

Description

Clear current query

Usage

clear()

Value

TRUE (invisible)

See Also

[query\(\)](#) for opening a query

[submit\(\)](#) for submitting a query

| | |
|-------|-----------------------|
| query | <i>Create a query</i> |
|-------|-----------------------|

Description

Create a query

Usage

```
query(
  q = call("member", expression(X), list(quote(a), "b", 3L, 4, TRUE, expression(Y)))
)
```

Arguments

q an R call. The R call consists of symbols, integers and real numbers, character strings, boolean values, expressions, lists, and other calls. Vectors of booleans, integers, floating point numbers, and strings with length $N > 1$ are translated to prolog compounds $!/N$, $%/N$, $#/N$ and $$$/N$, respectively.

Details

SWI-Prolog does not allow multiple open queries. If another query is open, it is closed and a warning is shown.

Value

If the creation of the query succeeds, TRUE

See Also

[submit\(\)](#) for submitting a query

[clear\(\)](#) to close the currently open query

Examples

```
q <- query(call("member", 1, expression(X)))
submit()
submit()
clear()
```

submit

Submit a query that has been opened with [query\(\)](#) before.

Description

Submit a query that has been opened with [query\(\)](#) before.

Usage

```
submit()
```

Value

If the query fails, FALSE is returned. If the query succeeds, a (possibly empty) list is returned that includes the bindings required to satisfy the query.

See Also

[query\(\)](#) for a opening a query.

[clear\(\)](#) for a clearing a query.

`swipl`*Invoke SWI-Prolog*

Description

This function is internally used to emulate swipl using the R program: `R -e "rswipl:::swipl()" -q -no-echo -args -g goal`

Usage`swipl()`**Value**

TRUE on success

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