Package 'tryCatchLog'

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append.to.last.tryCatchLog.result

Appends a new log entry to the stored logging output of the last call to $tryCatchLog\ or\ tryLog$

Description

You can get the last logging output by calling last.tryCatchLog.result.

Usage

Index

```
append.to.last.tryCatchLog.result(new.log.entry)
```

Arguments

new.log.entry the new log entry (a data.frame created with link{build.log.entry})

Details

THIS FUNCTION IS USED ONLY PACKAGE INTERNALLY!

Value

the complete logging result of the last call to tryCatchLog or tryLog as data. frame

Note

THIS IS A PACKAGE INTERNAL FUNCTION AND THEREFORE NOT EXPORTED.

See Also

```
last.tryCatchLog.result, reset.last.tryCatchLog.result,
```

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build.log.entry	Creates a log entry as a single data. frame row containing all relevant logging information in columns

Description

The serverity level should correspond to the condition class.

Usage

```
build.log.entry(
   timestamp,
   severity,
   msg.text,
   execution.context.msg,
   call.stack,
   dump.file.name,
   omit.call.stack.items = 0
)
```

Arguments

```
timestamp
                  logging timestamp as POSIXct (normally by calling Sys.time)
                  severity level of the log entry ((ERROR, WARN, INFO etc.)
severity
msg.text
                  Logging message (e. g. error message)
execution.context.msg
                  a text identifier (eg. the PID or a variable value) that will be appended to msg.text
                  for catched conditions. Must be a character or an error is thrown.
                  a call stack created by sys.calls
call.stack
dump.file.name name of the created dump file (leave empty if the tryCatchLog argument write.error.dump.file
                  is FALSE)
omit.call.stack.items
                  the number of stack trace items to ignore (= last x calls) in the passed call. stack
                  since they are caused by using tryCatchLog
```

Value

An object of class tryCatchLog.log.entry and data.frame and the following columns:

- 1. timestamp creation date and time of the logging entry
- 2. severity the serverity level of the log entry (ERROR, WARN, INFO etc.)
- 3. msg.text the message text of the log entry
- 4. compact.stack.trace the short stack trace containing only entries with source code references down to line of code that has thrown the condition

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5. full.stack.trace - the full stack trace with all calls down to the line of code that has thrown the condition (including calls to R internal functions and other functions even when the source code in not available).

6. dump.file.name - name of the created dump file (if any)

Note

THIS IS A PACKAGE INTERNAL FUNCTION AND THEREFORE NOT EXPORTED.

See Also

```
last.tryCatchLog.result build.log.output
```

build.log.output

Creates a single string suited as logging output

Description

To view the formatted output print the logging output in a console use cat (instead of printing the output with print which shows the newline escape codes).

Usage

Arguments

log.results

A data.frame and member of the class tryCatchLog.log.entry with log entry rows as returned by last.tryCatchLog.result containing the logging information to be prepared for the logging output.

include.full.call.stack

Flag of type logical: Shall the full call stack be included in the log output? Since the full call stack may be very long and the compact call stack has enough details normally the full call stack can be omitted by passing FALSE.

include.compact.call.stack

Flag of type logical: Shall the compact call stack (including only calls with source code references) be included in the log output? Note: If you ommit both the full and compact call stacks the message text will be output without call stacks.

include.severity

logical switch if the severity level (e. g. ERROR) shall be included in the output

include.timestamp

logical switch if the timestamp of the catched condition shall be included in the output

use.platform.newline

logical: If TRUE the line breaks ("newline") will be inserted according to the current operationg system (Windows: CR+LF, else: CR). If FALSE R's usual \n esacpe character will be inserted and it is left to the client to convert this later into the operation-system-specific characters. This argument is rarely required (except e. g. if you want to write the return value into a database table column on Windows).

Value

A ready to use logging output with stack trace (as character)

Note

The logged call stack details (compact, full or both) can be configured globally using the options tryCatchLog.include.full.call.stack and tryCatchLog.include.compact.call.stack.

The result of the package internal function build.log.entry can be passed as log.results argument.

See Also

```
last.tryCatchLog.result build.log.entry
```

```
determine.platform.NewLine
```

Determines the operating system specific new line character(s)

Description

```
CR + LF on Windows, else only LF...
```

Usage

```
determine.platform.NewLine()
```

Details

This function is pendant to Microsoft's .Net "Environment.NewLine".

Value

the new line character(s) for the current operating system

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Note

THIS IS A PACKAGE INTERNAL FUNCTION AND THEREFORE NOT EXPORTED.

References

https://stackoverflow.com/questions/47478498/build-string-with-os-specific-newline-characters-crlf-

Description

Enriches the current call stack with the source file names and row numbers to track the location of thrown conditions and generates a prettily formatted list of strings

Usage

```
get.pretty.call.stack(call.stack, omit.last.items = 0, compact = FALSE)
```

Arguments

call.stack Call stack object created by sys.calls

omit.last.items

Number of call stack items to drop from the end of the full stack trace

TRUE will return only call stack items that have a source code reference (FALSE all)

Details

How to read the call stack:

- 1. Call stack items consist of:
 <call stack item number> [<file name>#<row number>:] <expression executed by this
 code line>
- 2. The last call stack items with a file name and row number points to the source code line causing the error.
- 3. Ignore all call stack items that do not start with a file name and row number (R internal calls only)

You should only call this function from within withCallingHandlers, NOT from within tryCatch since tryCatch unwinds the call stack to the tryCatch position and the source of the condition cannot be identified anymore.

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Value

The call stack (sys.calls) without the last number of function calls (given by "omit.last.items") to remove irrelevant calls caused e. g. by exception handler (withCallingHandlers) or restarts (of warnings).

See Also

```
tryCatchLog, tryLog, limitedLabelsCompact
```

```
get.pretty.option.value
```

gets the current value of an option as key/value string

Description

The data type is also indicated if an option is set (since a wrong data type may cause problems). If an option is not set "(not set)" is shown as value.

Usage

```
get.pretty.option.value(option.name)
```

Arguments

```
option.name Name of the option (as character)
```

Details

THIS IS AN INTERNAL PRIVATE FUNCTION OF THE PACKAGE.

Value

The option as key/value string in one line

See Also

```
get.pretty.tryCatchLog.options
```

```
## Not run:
tryCatchLog:::get.pretty.option.value("warn")
# [1] "Option warn = 0 (double)"
## End(Not run)
```

```
get.pretty.tryCatchLog.options
```

Gets the current option values of all options supported by the 'tryCatchLog' package

Description

This is a convenience function whose result can be used e. g. to log the current settings.

Usage

```
get.pretty.tryCatchLog.options()
```

Details

If an option is not set the string "(not set)" is shown as value.

The data type is also indicated if an option is set (since a wrong data type may cause problems).

Value

The current option settings as string (one per line as key/value pair), e. g.

```
Option tryCatchLog.write.error.dump.file = FALSE (logical)
Option tryCatchLog.write.error.folder = . (character)
Option tryCatchLog.silent.warnings = FALSE (logical)
Option tryCatchLog.silent.messages = (not set)
```

Examples

```
cat(get.pretty.tryCatchLog.options()) # "cat" does apply new line escape characters
```

```
is.duplicated.log.entry
```

Check if a new log entry would be a duplicate of on an already existing log entry

Description

The log.entry is checked against the existing log entries from last.tryCatchLog.result using the following columns:

- 1. msg.text
- 2. full.stack.trace

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Usage

```
is.duplicated.log.entry(log.entry)
```

Arguments

log.entry A data.frame with the new log entry (exactly one row)

Value

TRUE if the log.entry is a duplicate, else FALSE

Note

Required function to fix issue #18 (https://github.com/aryoda/tryCatchLog/issues/18)

See Also

```
last.tryCatchLog.result, build.log.entry
```

is.package.available Checks if a package is installed and can be loaded

Description

Use this function to check for optional package dependencies within this package.

Usage

```
is.package.available(package.name)
```

Arguments

```
package.name Name of the package (as string)
```

Details

This is a package-internal function!
See section 'Good practice' in '?.onAttach'.

Value

TRUE if the packages is installed, otherwise FALSE http://r-pkgs.had.co.nz/description.html

```
tryCatchLog:::is.package.available("tryCatchLog") # must be TRUE :-)
```

is.windows

Determines if R is running on a Windows operating system

Description

Throws a warning if an indication for Windows OS were found but the Windows OS cannot be recognized for sure (via a second different check).

Usage

```
is.windows()
```

Value

TRUE of running on a Windows OS else FALSE

Examples

```
is.windows()
```

 $last.try {\tt CatchLog.result}$

Gets the logging result of the last call to tryCatchLog or tryLog

Description

This funktion makes the logging results of all thrown conditions of the last tryCatchLog or tryLog call available in a structured form (data.frame).

Usage

```
last.tryCatchLog.result()
```

Details

The typical use case is to get and store the log output not only in a log file but also in another place that is not supported by the logging framework, e. g. in a data base table of your application or displaying it in a GUI (user interface).

Another use case is to review the last log output on the console during debugging.

limitedLabelsCompact

Value

the logging result of the last call to tryCatchLog or tryLog as data. frame comprised of one row per logged condition with these columns:

- 1. timestamp creation date and time of the logging entry
- 2. severity the serverity level of the log entry (ERROR, WARN, INFO etc.)
- 3. msg.text the message text of the log entry
- 4. execution.context.msg text identifier (eg. the PID or a variable value) as passed as argument to tryCatchLog or tryLog to make it easier to identify the runtime state that caused a condition esp. in parallel execution scenarios
- 5. compact.stack.trace the short stack trace containing only entries with source code references down to line of code that has thrown the condition
- 6. full.stack.trace the full stack trace with all calls down to the line of code that has thrown the condition (including calls to R internal functions and other functions even when the source code in not available).
- 7. dump.file.name name of the created dump file (if any)

If no condition is logged at all an empty data. table is returned.

See Also

```
tryCatchLog, tryLog
```

Examples

```
last.tryCatchLog.result()
```

limitedLabelsCompact Convert a call stack into a list of printable strings

Description

Converts a call stack into a list of printable strings ("labels") with a limited length per call. If source code references are available they are also printed in the stack trace using this notation: <file name>#executed R expression (call)

Usage

```
limitedLabelsCompact(
  value,
  compact = FALSE,
  maxwidth = getOption("width") - 5L
)
```

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Arguments

value a list of calls ("call.stack") generated by sys.calls

compact if TRUE only calls that contain a source code reference (attribute "srcref") are

returned (plus always the first call); if FALSE all calls will be returned.

maxwidth Maximum number of characters per call in the return value (longer strings will

be cutted). Must be between 40 and 2000 (until version 1.2.2: 1000)

Details

By default the maximum number of source code rows that are printed per call in the full stack trace is 10. You can change this via the option tryCatchLog.max.lines.per.call (see example).

R does track source code references only if you set the option "keep.source" to TRUE via options (keep.source = TRUE). Without this option this function cannot enrich source code references. If you use Rscript to start a non-interactive R script as batch job you have to set this option since it is FALSE by default. You can add this option to your .Rprofile file or use a startup R script that sets this option and sources your actual R script then.

This function is based on the undocumented limitedLabels function of the base package. The source code can be viewed by entering limitedLabels in the R console. The attributes required to add source file names and line numbers to the calls (srcref and srcfile) and how they are created internally are explained in this article: https://journal.r-project.org/archive/2010-2/RJournal_2010-2_Murdoch.pdf

Value

A list of strings (one for each call). If compact is TRUE at the last call is returned even if it does not contain a source code reference.

See Also

```
sys.calls, tryCatchLog, get.pretty.call.stack
```

Examples

```
options(tryCatchLog.max.lines.per.call = 30)
limitedLabelsCompact(sys.calls(), TRUE)
```

log2console Prints a time-stamped log message to the console incl. the severity level

Description

This is a package-internal function.

Usage

```
log2console(severity.level, msg)
```

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Arguments

Value

The log message as it was printed to the console. NA is printed as empty string.

Examples

```
tryCatchLog:::log2console("WARN", "this is my last warning")
```

platform.NewLine

Gets the operating system specific new line character(s)

Description

```
CR + LF on Windows, else only LF...
```

Usage

```
platform.NewLine()
```

Details

The newline character(s) are determined once at package loading time.

Value

the new line character(s) for the current operating system

```
platform.NewLine()
```

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```
reset.last.tryCatchLog.result
```

Resets the stored logging output of the last call to tryCatchLog or tryLog to an empty list

Description

You can get the last logging output by calling last.tryCatchLog.result.

Usage

```
reset.last.tryCatchLog.result()
```

Value

invisible: TRUE

Note

THIS IS A PACKAGE INTERNAL FUNCTION AND THEREFORE NOT EXPORTED.

See Also

```
last.tryCatchLog.result, append.to.last.tryCatchLog.result,
```

```
{\it Sets the logging functions that shall be used by {\it tryCatchLog} for the different severity levels}
```

Description

The logging functions must have at least one parameter: The logging message (as character) which must be the first argument.

Usage

```
set.logging.functions(
  error.log.func = function(msg) tryCatchLog:::log2console("ERROR", msg),
  warn.log.func = function(msg) tryCatchLog:::log2console("WARN", msg),
  info.log.func = function(msg) tryCatchLog:::log2console("INFO", msg)
)
```

Arguments

```
error.log.func The logging function for errors
warn.log.func The logging function for warning
info.log.func The error function for messages
```

Details

The default logging functions are internal functions without any dependencies to other logging packages. They use the same logging output format as **futile.logger** version 1.4.3.

If you want to disable any logging output you should use a decent logging framework which allows to set the logging threshold (e. g. futile.logger's flog.threshold).

The package-internal default logging functions are only a minimal implementation and are not meant to replace a decent logging framework.

Value

Nothing

See Also

tryCatchLog

Examples

tryCatchLog

Try an expression with condition logging and error handling

Description

This function evaluates an expression passed in the expr parameter, logs all conditions and executes the condition handlers passed in . . . (if any).

Usage

Arguments

expr

R expression to be evaluated

. . .

condition handler functions (as in tryCatch). The following condition names are mainly used in R: error, warning, message and interrupt. A handler for user-defined conditions can be established for the generic condition super class. All condition handlers are passed to tryCatch as is (no filtering, wrapping or changing of semantics).

execution.context.msg

a text identifier (eg. the PID or a variable value) that will be added to msg.text for catched conditions. This makes it easier to identify the runtime state that caused a condition esp. in parallel execution scenarios. The value must be of length 1 and will be coerced to character. Expressions are not allowed. The added output has the form: {execution.context.msg: your_value}

finally

expression to be evaluated at the end (after executing the expressiond and calling the matching handler).

write.error.dump.file

TRUE: Saves a dump of the workspace and the call stack named dump_<YYYYMMDD>_at_<HHMMSS.sss>_PI id>.rda. This dump file name pattern shall ensure unique file names in parallel processing scenarios.

write.error.dump.folder

path: Saves the dump of the workspace in a specific folder instead of the working directory

silent.warnings

TRUE: Warnings are logged only, but not propagated to the caller.

FALSE: Warnings are logged and treated according to the global setting in getOption("warn"). See also warning.

silent.messages

TRUE: Messages are logged, but not propagated to the caller.

FALSE: Messages are logged and propagated to the caller.

include.full.call.stack

Flag of type logical: Shall the full call stack be included in the log output? Since the full call stack may be very long and the compact call stack has enough details normally the full call stack can be omitted by passing FALSE. The default value can be changed globally by setting the option tryCatchLog.include.full.call.stack. The full call stack can always be found via last.tryCatchLog.result.

include.compact.call.stack

Flag of type logical: Shall the compact call stack (including only calls with source code references) be included in the log output? Note: If you ommit both the full and compact call stacks the message text will be output without call stacks. The default value can be changed globally by setting the option tryCatchLog.include.compact.call.stack. The compact call stack can always be found via last.tryCatchLog.result.

logged.conditions

NULL: Conditions are not logged.

vector of strings: Only conditions whose class name is contained in this vector are logged.

NA: All conditions are logged.

Details

The finally expression is then always evaluated at the end.

Condition handlers work as in base R's tryCatch.

Conditions are also logged including the function call stack with file names and line numbers (if available).

By default the maximum number of source code rows that are printed per call in the full stack trace is 10. You can change this via the option tryCatchLog.max.lines.per.call (see example).

This function shall overcome some drawbacks of the standard tryCatch function.

For more details see https://github.com/aryoda/tryCatchLog.

If the package **futile.logger** is installed it will be used for writing logging output, otherwise an internal basic logging output function is used.

Before you call tryCatchLog for the first time you should initialize the logging framework you are using (e. g.futile.logger to control the log output (log to console or file etc.):

```
library(futile.logger)
flog.appender(appender.file("my_app.log"))
flog.threshold(INFO)  # TRACE, DEBUG, INFO, WARN, ERROR, FATAL
```

If you are using the **futile.logger** package tryCatchLog calls these log functions for the different R conditions to log them:

```
    error -> flog.error
    warning -> flog.warn
    message -> flog.info
    interrupt -> flog.info
```

'tryCatchLog' does log all conditions (incl. user-defined conditions).

Since the interrupt condition does not have an error message attribute tryCatchLog uses "User-requested interrupt" as message in the logs.

The log contains the call stack with the file names and line numbers (if available).

R does track source code references of scripts only if you set the option keep.source to TRUE via options(keep.source = TRUE). Without this option this function cannot enrich source code references.

If you use Rscript to start a non-interactive R script as batch job you have to set this option since it is FALSE by default. You can add this option to your .Rprofile file or use a startup R script that sets this option and sources your actual R script then.

By default, most packages are built without source reference information. Setting the environment variable R_KEEP_PKG_SOURCE=yes before installing a source package will tell R to keep the source references. You can also use options(keep.source.pkgs = TRUE) before you install a package.

Setting the parameter tryCatchLog.write.error.dump.file to TRUE allows a post-mortem analysis of the program state that led to the error. The dump contains the workspace and in the variable "last.dump" the call stack (sys.frames). This feature is very helpful for non-interactive R scripts ("batches").

Setting the parameter tryCatchLog.write.error.dump.folder to a specific path allows to save the dump in a specific folder. If not set, the dump will be saved in the working directory.

To start a post-mortem analysis after an error open a new R session and enter: load("dump_20161016_164050.rda") # replace the dump file name with your real file name debugger(last.dump)

Note that the dump does **not** contain the loaded packages when the dump file was created and a dump loaded into memory does therefore **not** use exactly the same search path. This means:

- 1. the program state is not exactly reproducible if objects are stored within a package namespace
- 2. you cannot step through your source code in a reproducible way after loading the image if your source code calls functions of non-default packages

Value

the value of the expression passed in as parameter "expr"

Best practices

To avoid that too many dump files filling your disk space you should omit the write.error.dump.file parameter and instead set its default value using the option tryCatchLog.write.error.dump.file in your .Rprofile file instead (or in a startup R script that sources your actual script). In case of an error (that you can reproduce) you set the option to TRUE and re-run your script. Then you are able to examine the program state that led to the error by debugging the saved dump file.

To see the **source code references** (**source file names and line numbers**) in the stack traces you must set this option before executing your code: options(keep.source = TRUE)

You can execute your code as batch with Rscript using this shell script command: Rscript -e "options(keep.source = TRUE); source('my_main_function.R')"

References

```
http://adv-r.had.co.nz/beyond-exception-handling.html
https://stackoverflow.com/questions/39964040/r-catch-errors-and-continue-execution-after-logging-t
```

See Also

```
tryLog, limitedLabels, get.pretty.call.stack, last.tryCatchLog.result, set.logging.functions,
tryCatch, withCallingHandlers, signalCondition, getOption
```

```
tryCatchLog(log(-1))  # logs a warning (logarithm of a negative number is not possible)
tryLog(log(-1), execution.context.msg = Sys.getpid())

# set and unset an option
options("tryCatchLog.write.error.dump.folder" = "my_log")
options("tryCatchLog.write.error.dump.folder" = NULL)

options(tryCatchLog.max.lines.per.call = 30)
```

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tryLog

Try an expression with condition logging and error recovery

Description

tryLog is implemented by calling tryCatchLog and traps any errors that occur during the evaluation of an expression without stopping the execution of the script (similar to try). Errors, warnings and messages are logged. In contrast to tryCatchLog it returns but does not stop in case of an error and therefore does not have the error and finally parameters to pass in custom handler functions.

Usage

```
tryLog(
    expr,
    write.error.dump.file = getOption("tryCatchLog.write.error.dump.file", FALSE),
    write.error.dump.folder = getOption("tryCatchLog.write.error.dump.folder", "."),
    silent.warnings = getOption("tryCatchLog.silent.warnings", FALSE),
    silent.messages = getOption("tryCatchLog.silent.messages", FALSE),
    include.full.call.stack = getOption("tryCatchLog.include.full.call.stack", TRUE),
    include.compact.call.stack = getOption("tryCatchLog.include.compact.call.stack",
        TRUE),
    logged.conditions = getOption("tryCatchLog.logged.conditions", NULL),
    execution.context.msg = ""
)
```

Arguments

ing directory

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silent.warnings

TRUE: Warnings are logged only, but not propagated to the caller.

FALSE: Warnings are logged and treated according to the global setting in getOption("warn"). See also warning.

silent.messages

TRUE: Messages are logged, but not propagated to the caller.

FALSE: Messages are logged and propagated to the caller.

include.full.call.stack

Flag of type logical: Shall the full call stack be included in the log output? Since the full call stack may be very long and the compact call stack has enough details normally the full call stack can be omitted by passing FALSE. The default value can be changed globally by setting the option tryCatchLog.include.full.call.stack. The full call stack can always be found via last.tryCatchLog.result.

include.compact.call.stack

Flag of type logical: Shall the compact call stack (including only calls with source code references) be included in the log output? Note: If you ommit both the full and compact call stacks the message text will be output without call stacks. The default value can be changed globally by setting the option tryCatchLog.include.compact.call.stack. The compact call stack can always be found via last.tryCatchLog.result.

logged.conditions

NULL: Conditions are not logged.

vector of strings: Only conditions whose class name is contained in this vector are logged.

NA: All conditions are logged.

execution.context.msg

a text identifier (eg. the PID or a variable value) that will be added to msg.text for catched conditions. This makes it easier to identify the runtime state that caused a condition esp. in parallel execution scenarios. The value must be of length 1 and will be coerced to character. Expressions are not allowed. The added output has the form: {execution.context.msg: your_value}

Details

tryLog is implemented using tryCatchLog. If you need need more flexibility for catching and handling errors use the latter. Error messages are never printed to the stderr connection but logged only.

Value

The value of the expression (if expr is evaluated without an error.

In case of an error: An invisible object of the class "try-error" containing the error message and error condition as the "condition" attribute.

See Also

tryCatchLog,last.tryCatchLog.result

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```
tryLog(log(-1))  # logs a warning (logarithm of a negative number is not possible)
tryLog(log("a"))  # logs an error
tryCatchLog(log(-1), execution.context.msg = Sys.getpid())
```

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