Package 'mirai.promises'

April 13, 2024

Type Package

Title Make 'Mirai' 'Promises'

Version 0.5.0

Description Allows 'mirai' objects encapsulating asynchronous computations,
from the 'mirai' package by Gao (2023) <doi:10.5281/zenodo.7912722>, to be
used interchangeably with 'promise' objects from the 'promises' package by
Cheng (2021) <https://CRAN.R-project.org/package=promises>. This facilitates
their use with packages 'plumber' by Schloerke and Allen (2022)
<https://CRAN.R-project.org/package=plumber> and 'shiny' by Cheng, Allaire,
Sievert, Schloerke, Xie, Allen, McPherson, Dipert and Borges (2022)
<https://CRAN.R-project.org/package=shiny>.

License GPL (>= 3)

BugReports https://github.com/shikokuchuo/mirai.promises/issues

URL https://shikokuchuo.net/mirai.promises/,
https://github.com/shikokuchuo/mirai.promises/

Encoding UTF-8

Depends R (>= 3.5)

Imports nanonext (>= 0.13.3), promises (>= 1.3.0)

Suggests mirai (>= 0.13.2)

RoxygenNote 7.3.1

NeedsCompilation no

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R topics documented:

mirai.promises-package

mirai.promises: Make 'Mirai' 'Promises'

Description

Allows 'mirai' objects encapsulating asynchronous computations, from the **mirai** package by Gao (2023), to be used interchangeably with 'promise' objects from the **promises** package by Cheng (2021). This facilitates their use with packages **plumber** by Schloerke and Allen (2022) and **shiny** by Cheng, Allaire, Sievert, Schloerke, Xie, Allen, McPherson, Dipert and Borges (2022).

Notes

This package provides the methods `as.promise.mirai` and `as.promise.recvAio` for the S3 generic `as.promise` exported by the 'promises' package.

An auxiliary function `polling` provides the additional option to tune the frequency at which 'mirai' are checked for resolution.

Package authors wishing to use the S3 methods may simply import the function `polling` to make them available.

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See Also

Useful links:

- https://shikokuchuo.net/mirai.promises/

- https://github.com/shikokuchuo/mirai.promises/

- Report bugs at https://github.com/shikokuchuo/mirai.promises/issues

as.promise.mirai *Make 'Mirai' 'Promise'*

Description

Creates a 'promise' from a 'mirai' or 'recvAio'.

Usage

```
## S3 method for class 'mirai'
as.promise(x)

## S3 method for class 'recvAio'
as.promise(x)
```

Arguments

x   an object of class 'mirai' or 'recvAio'.

Details

This function is an S3 method for the generic as.promise for class 'mirai' or 'recvAio'.

polling may be used to customise the frequency with which to poll for promise resolution (defaults to every 100 milliseconds).

Value

A 'promise' object.

Examples

```
if (interactive()) {
# Only run examples in interactive R sessions

p <- promises::as.promise(mirai::mirai("example"))
print(p)
promises::is.promise(p)

}
```

polling   *Set Polling Frequency*

Description

Set the frequency with which to poll for promise resolution (the default being 100 milliseconds).

Usage

```
polling(freq = 100L)
```

Arguments

freq   [default 100L] integer number of milliseconds.

Value

Invisible NULL.

Examples

```
# set polling frequency to 1s
polling(freq = 1000L)

# reset polling frequency to default 100 ms
polling()
```

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