

Package ‘warp10r’

November 23, 2017

Title R Client for executing Warpscript on a Warp10 instance

Version 0.3.0

Description This R client enables to make basic ingress and egress routine with Warp 10.

Depends R (>= 3.3.2)

License Apache 2.0

Encoding UTF-8

RoxygenNote 6.0.1.9000

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extractGTS	<i>Extract Geo Time Series</i>
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Description

Extract all GTS from a JSON response and return them merged as a data.table. If too slow, consider using postWarpscript with outputType="data.table" instead.

Usage

```
extractGTS(response, withLabels = FALSE)
```

Arguments

response	response body of a post request (a character vector or a json)
withLabels	if TRUE, column names also include Labels. Default to FALSE

Value

data.table

permalink	<i>Generate a Permalink</i>
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Description

Generate a permalink to a quantum instance.

Usage

```
permalink(warpscript, plot = FALSE,
  endpoint = "http://localhost:8080/api/v0/exec",
  quantum = "http://localhost:8090")
```

Arguments

warpscript	code or file name ending with .mc2
plot	if TRUE, the generated link points to a plot. Default to FALSE
endpoint	egress endpoint. Default to "http://localhost:8080/api/v0/exec"
quantum	address of quantum instance. Default to "http://localhost:8090"

Value

url

postWarpscript	<i>Post Warpscript Code</i>
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Description

Post warpscript code to a Warp 10 instance and retrieve response as character vector, json, named list or data.table

Usage

```
postWarpscript(warpscript, outputType = "json",
  endpoint = "http://localhost:8080/api/v0/exec", withLabels = FALSE)
```

Arguments

warpscript	code or file name ending with .mc2
outputType	the type of the returned value. The supported types are "raw", "json", "pretty", "list" and "data.table". If outputType is "data.table", it requires the first level of the warpscript stack to be a list of GTS. Default to "json". Output type "dataFrame" is deprecated in favor of "data.table".
endpoint	egress endpoint. Default to "http://localhost:8080/api/v0/exec"
withLabels	if TRUE and if outputType is "data.table", column names also include Labels. Default to FALSE

Value

character vector or json or named list or data.table

pushWarp10	<i>Push data points</i>
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Description

Push data points to an ingress instance.

Usage

```
pushWarp10(data, token, endpoint = "http://localhost:8080/api/v0/update")
```

Arguments

data	data points in GTS input format as a character vector or a filename ending with .data or .gz
token	write token
endpoint	ingress endpoint. Default to "http://localhost:8080/api/v0/update"

toGtsInputFormat	<i>Convert a data frame</i>
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Description

Convert a data frame into GTS input format.

Usage

```
toGtsInputFormat(dataFrame)
```

Arguments

dataFrame first column must be named "timestamp". Column names corresponding to GTS values must be in the <selector> form: "classname{label1=value1,label2=value2,...}" (or "classname"). Optional geo columns must be named "<selector>.lat", "<selector>.lon" or "<selector>.elev"

Value

data points in GTS input format as a character vector

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