Package ‘warp10r’

November 21, 2017

Title R Client for executing Warpscript on a Warp10 instance

Version 1.0

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

R topics documented:

`extractGTS` *Extract Geo Time Series*

Description

Extract all GTS from a JSON response and return them merged as a data.table

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

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permalink *Generate a Permalink*

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

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postWarpscript *Post Warpscript Code*

Description

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

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 "dataFrame". Default to "json". If outputType is "dataFrame", only GTS present in the response will be included in the returned data frame.

`endpoint` egress endpoint. Default to "http://localhost:8080/api/v0/exec"

`withLabels` if TRUE and if outputType is "dataFrame", column names also include Labels. Default to FALSE

Value

character vector or json or named list or data frame

`pushWarp10` *Push data points*

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` *Convert a data frame*

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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