Package 'redland'

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Title RDF Library Bindings in R

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VignetteBuilder knitr

Description Provides methods to parse, query and serialize information stored in the Resource Description Framework (RDF). RDF is described at <https://www.w3.org/TR/rdf-primer/>.
This package supports RDF by implementing an R interface to the Redland RDF C library, described at <https://librdf.org/docs/api/index.html>. In brief, RDF provides a structured graph consisting of Statements composed of Subject, Predicate, and Object Nodes.

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Imports roxygen2

Suggests spelling, knitr, testthat, rmarkdown, stringi

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BugReports https://github.com/ropensci/redland-bindings/issues

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Author Matthew B. Jones [aut, cre],
Peter Slaughter [aut],
Jeroen Ooms [aut],
Carl Boettiger [aut],
Scott Chamberlain [aut],
David Beckett [cph],
University of Bristol [cph],
Regents of the University of California [cph]

Maintainer Matthew B. Jones <jones@nceas.ucsb.edu>

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R topics documented:

`addStatement` *Add a Statement object to the Model*

Description

Add a Statement object to the Model

Usage

```
addStatement(.Object, statement)

## S4 method for signature 'Model,Statement'
addStatement(.Object, statement)
```

Arguments

.Object	a Model object
statement	the Statement that will be added

Examples

```
world <- new("World")
storage <- new("Storage", world, "hashes", name="", options="hash-type='memory'")
model <- new("Model", world, storage, options="")
```

---

executeQuery *Execute a query*

Description

The initialize query is executed and the result is returned as a QueryResult object

Usage

```
executeQuery(.Object, model)

## S4 method for signature 'Query'
executeQuery(.Object, model)
```

Arguments

.Object	a Query object
model	a Model object containing the statements to query

Value

a QueryResults object

---

freeModel *Free memory used by a librdf model.*

Description

Free memory used by a librdf model.

Usage

```
freeModel(.Object)

## S4 method for signature 'Model'
freeModel(.Object)
```

Arguments

.Object	a Model object

Details

After this method is called, the Model object is no longer usable and should be deleted "rm(model)" and a new object created.

Examples

```
world <- new("World")
storage <- new("Storage", world, "hashes", name="", options="hash-type='memory'")
model <- new("Model", world, storage, options="")
# At this point, some operations would be performed with the model.
# See '?redland' for a complete example.
# When the Model object is no longer needed, the resources it has allocated can be freed.
freeModel(model)
rm(model)
```

---

freeParser *Free memory used by a librdf parser*

Description

Free memory used by a librdf parser

Usage

```
freeParser(.Object)

## S4 method for signature 'Parser'
freeParser(.Object)
```

Arguments

.Object	a Node object

Details

After freeNode is called, the Node object is no longer usable and should be deleted "rm(nodeName)" and a new object created.

Examples

```
world <- new("World")
storage <- new("Storage", world, "hashes", name="", options="hash-type='memory'")
model <- new("Model", world, storage, options="")
parser <- new("Parser", world)
filePath <- system.file("extdata/example.rdf", package="redland")
parseFileIntoModel(parser, world, filePath, model)
# At this point, some operations would be performed with the Model that has been populated
# with the parser.
# See '?redland' for a complete example.
# When the parser object is no longer needed, the resources it had allocated can be freed.
freeParser(parser)
rm(parser)
```

---

freeQuery *Free memory used by a librdf query*

Description

Free memory used by a librdf query

Usage

```
freeQuery(.Object)

## S4 method for signature 'Query'
freeQuery(.Object)
```

Arguments

.Object	a Query object

Details

After this method is called, the Query object is no longer usable and should be deleted "rm(query)" and a new object created.

Examples

```
world <- new("World")
storage <- new("Storage", world, "hashes", name="", options="hash-type='memory'")
model <- new("Model", world, storage, options="")
stmt <- new("Statement", world=world,
  subject="https://orcid.org/0000-0002-2192-403X",
  predicate="http://www.w3.org/ns/prov#Agent",
  object="slaughter",
  objectType="literal", datatype_uri="http://www.w3.org/2001/XMLSchema#string")
status <- addStatement(model, stmt)
queryString <- paste("PREFIX orcid: <https://orcid.org/>",
```

```
                    "PREFIX dataone: <https://cn.dataone.org/cn/v1/resolve/>",
                    "PREFIX prov: <http://www.w3.org/ns/prov#>",
                    "SELECT ?a ?c WHERE { ?a prov:Agent ?c . }", sep=" ")
query <- new("Query", world, queryString, base_uri=NULL,
  query_language="sparql", query_uri=NULL)
# Return all results as a string
results <- getResults(query, model, "rdfxml")

# When the query object is no longer needed, the resources it had allocated can be freed.
freeQuery(query)
rm(query)
```

`freeQueryResults` *Free memory used by a librdf query results*

Description

After this method is called, the QueryResults object is no longer usable and should be deleted with `"rm(query)"`.

Usage

```
freeQueryResults(.Object)

## S4 method for signature 'QueryResults'
freeQueryResults(.Object)
```

Arguments

`.Object`	a QueryResults object

`freeSerializer` *Free memory used by a librdf serializer.*

Description

Free memory used by a librdf serializer.

Usage

```
freeSerializer(.Object)

## S4 method for signature 'Serializer'
freeSerializer(.Object)
```

Arguments

.Object	a Serializer object

Examples

```
world <- new("World")
storage <- new("Storage", world, "hashes", name="", options="hash-type='memory'")
model <- new("Model", world, storage, options="")
filePath <- system.file("extdata/example.rdf", package="redland")
parser <- new("Parser", world)
parseFileIntoModel(parser, world, filePath, model)
# Creat the default "rdfxml" serizlizer
serializer <- new("Serializer", world)
# At this point, some operations would be performed with the Serializer object.
# See '?Serializer' for a complete example.
# When the serializer object is no longer needed, the resources it had allocated can be freed.
freeSerializer(serializer)
rm(serializer)
```

---

freeStatement *Free memory used by a librdf statement*

Description

Free memory used by a librdf statement

Usage

```
freeStatement(.Object)

## S4 method for signature 'Statement'
freeStatement(.Object)
```

Arguments

.Object	a Statement object

Details

After this method is called, the Statement object is no longer usable and should be deleted "`rm(statement)`" and a new object created. This method frees all resources for the statement, as well as each node in the statement.

Examples

```
world <- new("World")
stmt <- new("Statement", world, subject="http://www.example.com/myevent",
                                predicate="http://example.com/occurredAt",
                                object="Tue Feb 17 14:05:13 PST 2015")
# At this point, some operations would be performed with the Statement.
# See '?redland' for a complete example.
# When the Statement object is no longer needed, the resources it had allocated can be freed.
freeStatement(stmt)
rm(stmt)
```

`freeStorage` *Free memory used by a librdf storage object*

Description

After this method is called, the Storage object is no longer usable and should be deleted "`rm(storage)`" and a new object created.

Usage

```
freeStorage(.Object)

## S4 method for signature 'Storage'
freeStorage(.Object)
```

Arguments

`.Object`	a Storage object to free memory for

Examples

```
world <- new("World")
storage <- new("Storage", world, "hashes", name="", options="hash-type='memory'")
# At this point we would perform some operations using the storage object.
# See '?redland' for a complete example.
# When the Storage object is no longer needed, the resources it had allocated can be freed.
status <- freeStorage(storage)
rm(storage)
```

freeWorld *Free memory used by a librdf world object*

Description

Free memory used by a librdf world object

Usage

```
freeWorld(.Object)

## S4 method for signature 'World'
freeWorld(.Object)
```

Arguments

.Object	a World object

Details

After this method is called, the World object is no longer usable and should be deleted "rm(world)" and a new object created.

Examples

```
world <- new("World")
# At this point we would perform some operations using the world object.
# When the world object is no longer needed, we can free the resources it has allocated.
result <- freeWorld(world)
rm(world)
```

getBlankNodeId *Get the blank identifier that has been assigned for a specified Node object*

Description

Get the blank identifier that has been assigned for a specified Node object

Usage

```
getBlankNodeId(.Object)

## S4 method for signature 'Node'
getBlankNodeId(.Object)
```

Arguments

.Object	a Node object

Details

When a Node object is initialized with no value specified, i.e. node <- Node(""), a blank node is created and a locally unique identifier is generated by librdf. This method retrieves this identifier and returns in to the caller.

Value

a blank node identifier

Examples

```
world <- new("World")
# a blank node is created with a unique identifier generated by librdf
node <- new("Node", world, blank=NULL)
nodeId <- getBlankNodeId(node)
```

---

getNodeType *Determine the node type and return as a string*

Description

A Node has a type that is assigned at initialization and can have one of the following values: 'resource', 'literal', 'blank' and 'unknown'.

Usage

```
getNodeType(.Object)

## S4 method for signature 'Node'
getNodeType(.Object)
```

Arguments

.Object	a Node object

Value

a character vector containing the Node type

Examples

```
world <- new("World")
node <- new("Node", world, uri="http://www.example.com")
nodeType <- getNodeType(node)
```

getNodeValue *Get the value of the node as a string*

Description

Get the value of the node as a string

Usage

```
getNodeValue(.Object)

## S4 method for signature 'Node'
getNodeValue(.Object)
```

Arguments

.Object	a Node object

Details

The value of the node is returned as a string. If the node type is 'blank', then the blank node identifier is returned. If the node type is 'literal', then the literal value is returned with the form "string@language, e.g. "¡Hola, amigo! ¿Cómo estás?"@es". If the node type is 'uri' then the value is returned as a string.

Value

a string representation of the Node's value

Examples

```
world <- new("World")
node <- new("Node", world, literal="¡Hola, amigo! ¿Cómo estás?", language="es")
value <- getNodeValue(node)
```

getQueryResultLimit *Get the query result limit*

Description

Get the query result limit

Usage

```
getQueryResultLimit(.Object)

## S4 method for signature 'Query'
getQueryResultLimit(.Object)
```

Arguments

.Object	a Query object

Value

the query result limit. If a limit is set then the value will be >= 0. If the value is < 0, no limit is set

---

getResults *Return all query results*

Description

Return all query results

Usage

```
getResults(.Object, model, ...)

## S4 method for signature 'Query'
getResults(.Object, model, formatName = "rdfxml")
```

Arguments

.Object	a Query object
model	a Model object
...	additional parameters
formatName	a string specifying the RDF format name. Currently the supported formats are "rdfxml" ,"turtle", "json", "csv"

Details

After this method is called, the Query object is no longer usable and should be deleted "rm(query)" and a new object created.

Examples

```
world <- new("World")
storage <- new("Storage", world, "hashes", name="", options="hash-type='memory'")
model <- new("Model", world, storage, options="")
stmt <- new("Statement", world=world,
  subject="https://orcid.org/0000-0002-2192-403X",
  predicate="http://www.w3.org/ns/prov#Agent",
  object="slaughter",
  objectType="literal", datatype_uri="http://www.w3.org/2001/XMLSchema#string")
  #objectType="literal", language="en")
status <- addStatement(model, stmt)
queryString <- paste("PREFIX orcid: <https://orcid.org/>",
```

```
                    "PREFIX dataone: <https://cn.dataone.org/cn/v1/resolve/>",
                    "PREFIX prov: <http://www.w3.org/ns/prov#>",
                    "SELECT ?a ?c WHERE { ?a prov:Agent ?c . }", sep=" ")
query <- new("Query", world, queryString, base_uri=NULL, query_language="sparql", query_uri=NULL)
# Return all results as a string
results <- getResults(query, model, "rdfxml")
results <- getResults(query, model, "turtle")
results <- getResults(query, model, "json")

# When the query object is no longer needed, the resources it had allocated can be freed.
freeQuery(query)
rm(query)
```

`getTermType` *Return the redland node type for the specified RDF term in a statement*

Description

After a Statement object has been created, this method can be used to determine the RDF type ("uri", "literal", "blank") that has been assigned to the specified RDF term, i.e. "subject", "predicate", "object".

Usage

```
getTermType(.Object, term)

## S4 method for signature 'Statement,character'
getTermType(.Object, term)
```

Arguments

`.Object`	a Statement object
`term`	the RDF term for which the type will be returned

Examples

```
world <- new("World")
subject <- new("Node", blank="_:myid1", world)
predicate <- new("Node", uri="http://www.example.com/isa", world)
object <- new("Node", literal="thing", world)
stmt <- new("Statement", world, subject, predicate, object, world)
termType <- getTermType(stmt, "predicate")
```

`initialize,Model-method` *Constructor for a Model object.*

Description

Constructor for a Model object.

Usage

```
## S4 method for signature 'Model'
initialize(.Object, world, storage, options)
```

Arguments

`.Object`	a Node object
`world`	a World object
`storage`	a Storage object
`options`	extra options for model initialization

Value

the World object

`initialize,Node-method` *Initialize a Node object.*

Description

A Node has an associated type corresponding to the RDF component that it is representing. The list of possible types is "resource", "literal" or "blank".

Usage

```
## S4 method for signature 'Node'
initialize(.Object, world, literal, uri, blank, datatype_uri, language)
```

Arguments

.Object	the Node object to be initialized
world	a World object
literal	a literal character value to be assigned to the node
uri	a uri character value to be assigned to the node
blank	a blank node identifier to be assigned to the node
datatype_uri	a uri used to specify the datatype of a literal node, i.e. "http://www.w3.org/2001/XMLSchema#string"
language	a character value specifying the RDF language tag (excluding the "@" symbol), i.e. "fr"

Details

The url=' and 'literal=' arguments determine which type of Node is created. The Node type affects how the Node is processed in serialization, for example a Node created with 'node1 <- new("Node", literal="http://www.example.com")' is processed differently that a Node created with 'node1 <- new("Node", url="http://www.example.com")', with the former being processed as an RDF literal and the latter processed as an RDF resource.

Value

the Node object

Note

Refer to https://www.w3.org/TR/rdf11-concepts information on language tags.

---

initialize,Parser-method

Initialize a Parser object.

Description

A Parser object is initialized for a specific RDF serialization.

Usage

```
## S4 method for signature 'Parser'
initialize(
  .Object,
  world,
  name = "rdfxml",
  mimeType = "application/rdf+xml",
  typeUri = as.character(NA)
)
```

Arguments

.Object	the Parser object
world	a World object
name	name of the parser factory to use
mimeType	a mime type of the syntax of the model
typeUri	a URI for the syntax of the model

Details

The serialization format that are supported by

Value

the Parser object

---

initialize,Query-method

Initialize the Query object.

Description

Initialize the Query object.

Usage

```
## S4 method for signature 'Query'
initialize(
  .Object,
  world,
  querystring,
  base_uri = NULL,
  query_language = "sparql",
  query_uri = NULL
)
```

Arguments

.Object	the Query object
world	a World object
querystring	a query string for the language specified in 'query_language'
base_uri	a URI to prepend to relative URI in the document
query_language	the query language to execute the querystring with
query_uri	a URI to prepend to terms in the query

Value

the Query object

`initialize,QueryResults-method`
Initialize the QueryResults object.

Description

The QueryResults object is initialized with the librdf query result from return value of `'Query.execute()'`.

Usage

```
## S4 method for signature 'QueryResults'
initialize(.Object, results)
```

Arguments

`.Object`	the QueryResults object.
`results`	a librdf query result

Details

A QueryResults object is returned by the `Query.executeQuery()` method, so typically a user does not initialize a QueryResult object by calling `new("QueryResult", ...)`

Value

the QueryResults object

`initialize,Serializer-method`
Construct a Serializer object.

Description

Construct a Serializer object.

Usage

```
## S4 method for signature 'Serializer'
initialize(
  .Object,
  world,
  name = "rdfxml",
  mimeType = "application/rdf+xml",
  typeUri = as.character(NA)
)
```

Arguments

.Object	the Serializer object
world	a World object
name	name of a previously created serializer factory to use
mimeType	a mime type of the syntax of the model
typeUri	a URI for the syntax of the model

Value

the Serializer object

---

initialize,Statement-method

Construct a Statement object.

Description

Construct a Statement object.

Usage

```
## S4 method for signature 'Statement'
initialize(
  .Object,
  world,
  subject,
  predicate,
  object,
  subjectType = as.character(NA),
  objectType = as.character(NA),
  datatype_uri = as.character(NA),
  language = as.character(NA)
)
```

Arguments

.Object	the Statement object
world	a World object
subject	a Node object
predicate	a Node object
object	a Node object
subjectType	the Node type of the subject, i.e. "blank", "uri"
objectType	the Node type of the object, i.e. "blank", "uri", "literal"
datatype_uri	the datatype URI to associate with a object literal value
language	a character value specifying the RDF language tag for an object literal value (excluding the "@" symbol), i.e. "fr"

Value

the Statement object

`initialize,Storage-method` *Initialize a Storage object*

Description

Initialize a Storage object

Usage

```
## S4 method for signature 'Storage'
initialize(
  .Object,
  world,
  type = "hashes",
  name = "",
  options = "hash-type='memory'"
)
```

Arguments

`.Object`	the Storage object
`world`	the World object
`type`	the Redland storage type
`name`	storage instance name
`options`	storage options

Value

the Storage object

Examples

```
world <- new("World")
storage <- new("Storage", world, "hashes", name="", options="hash-type='memory'")
```

initialize,World-method *Initialize the World object.*

Description

Initialize the World object.

Usage

```
## S4 method for signature 'World'
initialize(.Object)
```

Arguments

.Object	the World object

Value

the World object

is.null.externalptr *Determine whether an externalptr object is NULL.*

Description

The pointer is treated as an externalptr and checked via a call in C to see if it is NULL.

Usage

```
is.null.externalptr(pointer)
```

Arguments

pointer	externalptr to be checked for NULL value

Value

logical TRUE if the pointer is NULL, otherwise FALSE

`length,SWIGArray-method`
Return length of a SWIGArray

Description

Return length of a SWIGArray

Usage

```
## S4 method for signature 'SWIGArray'
length(x)
```

Arguments

`x`	the SWIGArray

`librdf_copyright_string`
Copyright string (multiple lines).

Description

Copyright string (multiple lines).

Usage

```
librdf_copyright_string ( .copy )
```

Arguments

`.copy`	NA

Value

character

References

https://librdf.org/docs/

See Also

This R function is a wrapper function that directly calls the the Redland RDF C libraries. For more information about Redland RDF, view the online documentation indicated in the 'References' section.

librdf_copyright_string_get *Return Redland RDF copyright string*

Description

Return the Redland RDF copyright

Usage

```
librdf_copyright_string_get (.copy)
```

Arguments

.copy	logical

Value

character

References

https://librdf.org/docs/

See Also

This R function is a wrapper function that directly calls the the Redland RDF C libraries. For more information about Redland RDF, view the online documentation indicated in the 'References' section.

librdf_digest_final *Finish the digesting of data.*

Description

Finish the digesting of data.

Usage

```
librdf_digest_final ( digest )
```

Arguments

digest	the digest ("_p_librdf_digest_s")

Value

void

References

https://librdf.org/docs/

See Also

This R function is a wrapper function that directly calls the the Redland RDF C libraries. For more information about Redland RDF, view the online documentation indicated in the 'References' section.

`librdf_digest_init` *(Re)initialise the librdf_digest object.*

Description

(Re)initialise the librdf_digest object.

Usage

```
librdf_digest_init ( digest )
```

Arguments

`digest`	the digest ("_p_librdf_digest_s")

Value

void

References

https://librdf.org/docs/

See Also

This R function is a wrapper function that directly calls the the Redland RDF C libraries. For more information about Redland RDF, view the online documentation indicated in the 'References' section.

librdf_digest_to_string *Get a string representation of the digest object.*

Description

Get a string representation of the digest object.

Usage

```
librdf_digest_to_string ( digest )
```

Arguments

digest	the digest ("_p_librdf_digest_s")

Value

character

References

https://librdf.org/docs/

See Also

This R function is a wrapper function that directly calls the the Redland RDF C libraries. For more information about Redland RDF, view the online documentation indicated in the 'References' section.

librdf_digest_update *Add more data to the librdf_digest object.*

Description

Add more data to the librdf_digest object.

Usage

```
librdf_digest_update ( digest,
buf,
length )
```

Arguments

digest	the digest ("_p_librdf_digest_s")
buf	the data buffer ("character")
length	the length of the data ("integer")

Value

void

References

https://librdf.org/docs/

See Also

This R function is a wrapper function that directly calls the the Redland RDF C libraries. For more information about Redland RDF, view the online documentation indicated in the 'References' section.

---

librdf_digest_update_string

Add a string to the librdf_digest object.

Description

Add a string to the librdf_digest object.

Usage

```
librdf_digest_update_string ( digest,
string )
```

Arguments

digest	the digest ("_p_librdf_digest_s")
string	string to add ("character")

Value

void

References

https://librdf.org/docs/

See Also

This R function is a wrapper function that directly calls the the Redland RDF C libraries. For more information about Redland RDF, view the online documentation indicated in the 'References' section.

`librdf_free_digest` *Destructor - destroy a librdf_digest object.*

Description

Destructor - destroy a librdf_digest object.

Usage

```
librdf_free_digest ( digest )
```

Arguments

`digest`	the digest ("_p_librdf_digest_s")

Value

void

References

https://librdf.org/docs/

See Also

This R function is a wrapper function that directly calls the the Redland RDF C libraries. For more information about Redland RDF, view the online documentation indicated in the 'References' section.

`librdf_free_hash` *Destructor - destroy a librdf_hash object.*

Description

Destructor - destroy a librdf_hash object.

Usage

```
librdf_free_hash ( hash )
```

Arguments

hash	hash object ("_p_librdf_hash_s")

Value

void

References

https://librdf.org/docs/

See Also

This R function is a wrapper function that directly calls the the Redland RDF C libraries. For more information about Redland RDF, view the online documentation indicated in the 'References' section.

---

librdf_free_iterator *Destructor - destroy a librdf_iterator object.*

Description

Destructor - destroy a librdf_iterator object.

Usage

```
librdf_free_iterator ( s_arg1 )
```

Arguments

s_arg1	the librdf_iterator object ("_p_librdf_iterator_s")

Value

void

References

https://librdf.org/docs/

See Also

This R function is a wrapper function that directly calls the the Redland RDF C libraries. For more information about Redland RDF, view the online documentation indicated in the 'References' section.

librdf_free_model *Destructor - Destroy a librdf_model object.*

Description

Destructor - Destroy a librdf_model object.

Usage

```
librdf_free_model ( model )
```

Arguments

model	librdf_model model to destroy ("_p_librdf_model_s")

Value

void

References

https://librdf.org/docs/

See Also

This R function is a wrapper function that directly calls the the Redland RDF C libraries. For more information about Redland RDF, view the online documentation indicated in the 'References' section.

librdf_free_node *Destructor - destroy an librdf_node object.*

Description

Destructor - destroy an librdf_node object.

Usage

```
librdf_free_node ( r )
```

Arguments

r	librdf_node object ("_p_librdf_node_s")

Value

void

References

https://librdf.org/docs/

See Also

This R function is a wrapper function that directly calls the the Redland RDF C libraries. For more information about Redland RDF, view the online documentation indicated in the 'References' section.

`librdf_free_parser` *Destructor - destroys a librdf_parser object.*

Description

Destructor - destroys a librdf_parser object.

Usage

```
librdf_free_parser ( parser )
```

Arguments

`parser`	the parser ("_p_librdf_parser_s")

Value

void

References

https://librdf.org/docs/

See Also

This R function is a wrapper function that directly calls the the Redland RDF C libraries. For more information about Redland RDF, view the online documentation indicated in the 'References' section.

librdf_free_query *Destructor - destroy a librdf_query object.*

Description

Destructor - destroy a librdf_query object.

Usage

```
librdf_free_query ( query )
```

Arguments

query	librdf_query object ("_p_librdf_query")

Value

void

References

https://librdf.org/docs/

See Also

This R function is a wrapper function that directly calls the the Redland RDF C libraries. For more information about Redland RDF, view the online documentation indicated in the 'References' section.

librdf_free_query_results *Destructor - destroy a librdf_query_results object.*

Description

Destructor - destroy a librdf_query_results object.

Usage

```
librdf_free_query_results ( query_results )
```

Arguments

query_results	librdf_query_results object ("_p_librdf_query_results")

Value

void

References

https://librdf.org/docs/

See Also

This R function is a wrapper function that directly calls the the Redland RDF C libraries. For more information about Redland RDF, view the online documentation indicated in the 'References' section.

`librdf_free_serializer`

Destructor - destroys a librdf_serializer object.

Description

Destructor - destroys a librdf_serializer object.

Usage

```
librdf_free_serializer ( serializer )
```

Arguments

`serializer`	the serializer ("_p_librdf_serializer_s")

Value

void

References

https://librdf.org/docs/

See Also

This R function is a wrapper function that directly calls the the Redland RDF C libraries. For more information about Redland RDF, view the online documentation indicated in the 'References' section.

librdf_free_statement *Destructor - destroy a librdf_statement.*

Description

Destructor - destroy a librdf_statement.

Usage

```
librdf_free_statement ( statement )
```

Arguments

statement	librdf_statement object ("_p_librdf_statement_s")

Value

void

References

https://librdf.org/docs/

See Also

This R function is a wrapper function that directly calls the the Redland RDF C libraries. For more information about Redland RDF, view the online documentation indicated in the 'References' section.

librdf_free_storage *Destructor - destroy a librdf_storage object.*

Description

Destructor - destroy a librdf_storage object.

Usage

```
librdf_free_storage ( storage )
```

Arguments

storage	librdf_storage object ("_p_librdf_storage_s")

Value

void

References

https://librdf.org/docs/

See Also

This R function is a wrapper function that directly calls the the Redland RDF C libraries. For more information about Redland RDF, view the online documentation indicated in the 'References' section.

`librdf_free_stream` *Destructor - destroy an libdf_stream object.*

Description

Destructor - destroy an libdf_stream object.

Usage

```
librdf_free_stream ( stream )
```

Arguments

`stream`	librdf_stream object ("_p_librdf_stream_s")

Value

void

References

https://librdf.org/docs/

See Also

This R function is a wrapper function that directly calls the the Redland RDF C libraries. For more information about Redland RDF, view the online documentation indicated in the 'References' section.

librdf_free_uri *Destructor - destroy a librdf_uri object.*

Description

Destructor - destroy a librdf_uri object.

Usage

```
librdf_free_uri ( uri )
```

Arguments

uri	librdf_uri object ("_p_librdf_uri_s")

Value

void

References

https://librdf.org/docs/

See Also

This R function is a wrapper function that directly calls the the Redland RDF C libraries. For more information about Redland RDF, view the online documentation indicated in the 'References' section.

librdf_free_world *Terminate the library and frees all allocated resources.*

Description

Terminate the library and frees all allocated resources.

Usage

```
librdf_free_world ( world )
```

Arguments

world	redland world object ("_p_librdf_world_s")

Value

void

References

https://librdf.org/docs/

See Also

This R function is a wrapper function that directly calls the the Redland RDF C libraries. For more information about Redland RDF, view the online documentation indicated in the 'References' section.

`librdf_hash_to_string` *Format the hash as a string, suitable for parsing by librdf_hash_from_string.*

Description

Format the hash as a string, suitable for parsing by librdf_hash_from_string.

Usage

```
librdf_hash_to_string ( hash,
filter )
```

Arguments

`hash`	librdf_hash object ("_p_librdf_hash_s")
`filter`	NULL terminated list of keys to ignore ("_p_p_char")

Value

character

References

https://librdf.org/docs/

See Also

This R function is a wrapper function that directly calls the the Redland RDF C libraries. For more information about Redland RDF, view the online documentation indicated in the 'References' section.

librdf_internal_test_error

For internal testing, not part of public API

Description

This funciton is for internal testing of the Redland software and is not part of the public API.

Usage

```
librdf_internal_test_error ( world )
```

Arguments

world	librdf_world object ("_p_librdf_world_s")

Value

void

References

https://librdf.org/docs/

See Also

This R function is a wrapper function that directly calls the the Redland RDF C libraries. For more information about Redland RDF, view the online documentation indicated in the 'References' section.

librdf_internal_test_warning

For internal testing, not part of public API

Description

This funciton is for internal testing of the Redland software and is not part of the public API.

Usage

```
librdf_internal_test_warning ( world )
```

Arguments

world	librdf_world ("_p_librdf_world_s")

Value

void

References

https://librdf.org/docs/

See Also

This R function is a wrapper function that directly calls the the Redland RDF C libraries. For more information about Redland RDF, view the online documentation indicated in the 'References' section.

---

librdf_iterator_end *Test if the iterator has finished.*

Description

Test if the iterator has finished.

Usage

```
librdf_iterator_end ( iterator,
.copy )
```

Arguments

iterator	the librdf_iterator object ("_p_librdf_iterator_s")
.copy	NA

Value

integer

References

https://librdf.org/docs/

See Also

This R function is a wrapper function that directly calls the the Redland RDF C libraries. For more information about Redland RDF, view the online documentation indicated in the 'References' section.

librdf_iterator_get_context *Get the context of the current object on the iterator.*

Description

Get the context of the current object on the iterator.

Usage

```
librdf_iterator_get_context ( iterator )
```

Arguments

iterator	the librdf_iterator object ("_p_librdf_iterator_s")

Value

_p_librdf_node_s

References

https://librdf.org/docs/

See Also

This R function is a wrapper function that directly calls the the Redland RDF C libraries. For more information about Redland RDF, view the online documentation indicated in the 'References' section.

librdf_iterator_get_object *Get the current object from the iterator.*

Description

Get the current object from the iterator.

Usage

```
librdf_iterator_get_object ( iterator )
```

Arguments

iterator	the librdf_iterator object ("_p_librdf_iterator_s")

Value

_p_librdf_node_s

References

https://librdf.org/docs/

See Also

This R function is a wrapper function that directly calls the the Redland RDF C libraries. For more information about Redland RDF, view the online documentation indicated in the 'References' section.

`librdf_iterator_next` *Move to the next iterator element.*

Description

Move to the next iterator element.

Usage

```
librdf_iterator_next ( iterator,
.copy )
```

Arguments

`iterator`	the librdf_iterator object ("_p_librdf_iterator_s")
`.copy`	NA

Value

integer

References

https://librdf.org/docs/

See Also

This R function is a wrapper function that directly calls the the Redland RDF C libraries. For more information about Redland RDF, view the online documentation indicated in the 'References' section.

librdf_log_message_code *Retrieve error code from log message.*

Description

Retrieve error code from log message.

Usage

```
librdf_log_message_code ( message,
.copy )
```

Arguments

message	log message ("_p_librdf_log_message")
.copy	NA

Value

integer

References

https://librdf.org/docs/

See Also

This R function is a wrapper function that directly calls the the Redland RDF C libraries. For more information about Redland RDF, view the online documentation indicated in the 'References' section.

librdf_log_message_facility *Retrieve facility that generated the message.*

Description

Retrieve facility that generated the message.

Usage

```
librdf_log_message_facility ( message,
.copy )
```

Arguments

message	log message ("_p_librdf_log_message")
.copy	NA

Value

integer

References

https://librdf.org/docs/

See Also

This R function is a wrapper function that directly calls the the Redland RDF C libraries. For more information about Redland RDF, view the online documentation indicated in the 'References' section.

---

librdf_log_message_level

Retrieve severity of log message.

Description

Retrieve severity of log message.

Usage

```
librdf_log_message_level ( message,
.copy )
```

Arguments

message	log message ("_p_librdf_log_message")
.copy	NA

Value

integer

References

https://librdf.org/docs/

See Also

This R function is a wrapper function that directly calls the the Redland RDF C libraries. For more information about Redland RDF, view the online documentation indicated in the 'References' section.

librdf_log_message_locator *Retrieve locator of log entry.*

Description

Retrieve locator of log entry.

Usage

```
librdf_log_message_locator ( message )
```

Arguments

message	log message ("_p_librdf_log_message")

Value

_p_raptor_locator

References

https://librdf.org/docs/

See Also

This R function is a wrapper function that directly calls the the Redland RDF C libraries. For more information about Redland RDF, view the online documentation indicated in the 'References' section.

librdf_log_message_message *Retrieve text message from log entry.*

Description

Retrieve text message from log entry.

Usage

```
librdf_log_message_message ( message )
```

Arguments

message	log message ("_p_librdf_log_message")

Value

character

References

https://librdf.org/docs/

See Also

This R function is a wrapper function that directly calls the the Redland RDF C libraries. For more information about Redland RDF, view the online documentation indicated in the 'References' section.

`librdf_model_add` *Create and add a new statement about a resource to the model.*

Description

Create and add a new statement about a resource to the model.

Usage

```
librdf_model_add ( model,
subject,
predicate,
object,
.copy )
```

Arguments

`model`	model object ("_p_librdf_model_s")
`subject`	librdf_node of subject ("_p_librdf_node_s")
`predicate`	librdf_node of predicate ("_p_librdf_node_s")
`object`	librdf_node of object (literal or resource) ("_p_librdf_node_s")
`.copy`	NA

Value

integer

References

https://librdf.org/docs/

See Also

This R function is a wrapper function that directly calls the the Redland RDF C libraries. For more information about Redland RDF, view the online documentation indicated in the 'References' section.

`librdf_model_add_statement`
Add a statement to the model.

Description

Add a statement to the model.

Usage

```
librdf_model_add_statement ( model,
statement,
.copy )
```

Arguments

`model`	model object ("_p_librdf_model_s")
`statement`	statement object ("_p_librdf_statement_s")
`.copy`	NA

Value

integer

References

https://librdf.org/docs/

See Also

This R function is a wrapper function that directly calls the the Redland RDF C libraries. For more information about Redland RDF, view the online documentation indicated in the 'References' section.

librdf_model_add_statements *Add a stream of statements to the model.*

Description

Add a stream of statements to the model.

Usage

```
librdf_model_add_statements ( model,
statement_stream,
.copy )
```

Arguments

model	model object ("_p_librdf_model_s")
statement_stream	stream of statements to use ("_p_librdf_stream_s")
.copy	NA

Value

integer

References

https://librdf.org/docs/

See Also

This R function is a wrapper function that directly calls the the Redland RDF C libraries. For more information about Redland RDF, view the online documentation indicated in the 'References' section.

librdf_model_add_string_literal_statement *Create and add a new statement about a literal to the model.*

Description

Create and add a new statement about a literal to the model.

Usage

```
librdf_model_add_string_literal_statement ( model,
subject,
predicate,
literal,
inStrOrNull,
is_wf_xml,
.copy )
```

Arguments

model	model object ("_p_librdf_model_s")
subject	librdf_node of subject ("_p_librdf_node_s")
predicate	librdf_node of predicate ("_p_librdf_node_s")
literal	string literal conten ("character")
inStrOrNull	language of literal ("character")
is_wf_xml	literal is XML ("integer")
.copy	NA

Value

integer

References

https://librdf.org/docs/

See Also

This R function is a wrapper function that directly calls the the Redland RDF C libraries. For more information about Redland RDF, view the online documentation indicated in the 'References' section.

---

librdf_model_add_typed_literal_statement

Create and add a new statement about a typed literal to the model.

Description

Create and add a new statement about a typed literal to the model.

Usage

```
librdf_model_add_typed_literal_statement ( model,
subject,
predicate,
string,
inStrOrNull,
inUriOrNull,
.copy )
```

Arguments

model	model object ("_p_librdf_model_s")
subject	librdf_node of subject ("_p_librdf_node_s")
predicate	librdf_node of predicate ("_p_librdf_node_s")
string	string literal content ("character")
inStrOrNull	language of literal ("character")
inUriOrNull	datatype librdf_uri ("_p_librdf_uri_s")
.copy	NA

Value

integer

References

https://librdf.org/docs/

See Also

This R function is a wrapper function that directly calls the the Redland RDF C libraries. For more information about Redland RDF, view the online documentation indicated in the 'References' section.

---

librdf_model_as_stream

List the model contents as a stream of statements.

Description

List the model contents as a stream of statements.

Usage

```
librdf_model_as_stream ( model )
```

Arguments

model	the model object ("_p_librdf_model_s")

Value

_p_librdf_stream_s

References

https://librdf.org/docs/

See Also

This R function is a wrapper function that directly calls the the Redland RDF C libraries. For more information about Redland RDF, view the online documentation indicated in the 'References' section.

---

librdf_model_contains_context

Check for a context in the model.

Description

Check for a context in the model.

Usage

```
librdf_model_contains_context ( model,
context,
.copy )
```

Arguments

model	the model object ("_p_librdf_model_s")
context	the contest ("_p_librdf_node_s")
.copy	NA

Value

integer

References

https://librdf.org/docs/

See Also

This R function is a wrapper function that directly calls the the Redland RDF C libraries. For more information about Redland RDF, view the online documentation indicated in the 'References' section.

`librdf_model_contains_statement`

Check for a statement in the model.

Description

Check for a statement in the model.

Usage

```
librdf_model_contains_statement ( model,
statement,
.copy )
```

Arguments

`model`	the model object ("_p_librdf_model_s")
`statement`	the statement ("_p_librdf_statement_s")
`.copy`	NA

Value

integer

References

https://librdf.org/docs/

See Also

This R function is a wrapper function that directly calls the the Redland RDF C libraries. For more information about Redland RDF, view the online documentation indicated in the 'References' section.

librdf_model_context_add_statement
Add a statement to a model with a context.

Description

Add a statement to a model with a context.

Usage

```
librdf_model_context_add_statement ( model,
context,
statement,
.copy )
```

Arguments

model	librdf_model object ("_p_librdf_model_s")
context	librdf_node context ("_p_librdf_node_s")
statement	librdf_statement statement object ("_p_librdf_statement_s")
.copy	NA

Value

integer

References

https://librdf.org/docs/

See Also

This R function is a wrapper function that directly calls the the Redland RDF C libraries. For more information about Redland RDF, view the online documentation indicated in the 'References' section.

librdf_model_context_add_statements
Add statements to a model with a context.

Description

Add statements to a model with a context.

Usage

```
librdf_model_context_add_statements ( model,
context,
stream,
.copy )
```

Arguments

model	librdf_model object ("_p_librdf_model_s")
context	librdf_node context ("_p_librdf_node_s")
stream	librdf_stream stream object ("_p_librdf_stream_s")
.copy	NA

Value

integer

References

https://librdf.org/docs/

See Also

This R function is a wrapper function that directly calls the the Redland RDF C libraries. For more information about Redland RDF, view the online documentation indicated in the 'References' section.

librdf_model_context_as_stream
List all statements in a model context.

Description

List all statements in a model context.

Usage

```
librdf_model_context_as_stream ( model,
context )
```

Arguments

model	librdf_model object ("_p_librdf_model_s")
context	librdf_node context ("_p_librdf_node_s")

Value

_p_librdf_stream_s

References

https://librdf.org/docs/

See Also

This R function is a wrapper function that directly calls the the Redland RDF C libraries. For more information about Redland RDF, view the online documentation indicated in the 'References' section.

librdf_model_context_remove_statement
Remove a statement from a model in a context.

Description

Remove a statement from a model in a context.

Usage

```
librdf_model_context_remove_statement ( model,
context,
statement,
.copy )
```

Arguments

model	librdf_model object ("_p_librdf_model_s")
context	librdf_node context ("_p_librdf_node_s")
statement	librdf_statement statement ("_p_librdf_statement_s")
.copy	NA

Value

integer

References

https://librdf.org/docs/

See Also

This R function is a wrapper function that directly calls the the Redland RDF C libraries. For more information about Redland RDF, view the online documentation indicated in the 'References' section.

---

librdf_model_context_remove_statements

Remove statements from a model with the given context.

Description

Remove statements from a model with the given context.

Usage

```
librdf_model_context_remove_statements ( model,
context,
.copy )
```

Arguments

model	librdf_model object ("_p_librdf_model_s")
context	librdf_node context ("_p_librdf_node_s")
.copy	NA

Value

integer

References

https://librdf.org/docs/

See Also

This R function is a wrapper function that directly calls the the Redland RDF C libraries. For more information about Redland RDF, view the online documentation indicated in the 'References' section.

`librdf_model_find_statements`
Find matching statements in the model.

Description

Find matching statements in the model.

Usage

```
librdf_model_find_statements ( model,
statement )
```

Arguments

`model`	the model object ("_p_librdf_model_s")
`statement`	the partial statement to match ("_p_librdf_statement_s")

Value

_p_librdf_stream_s

References

https://librdf.org/docs/

See Also

This R function is a wrapper function that directly calls the the Redland RDF C libraries. For more information about Redland RDF, view the online documentation indicated in the 'References' section.

librdf_model_find_statements_in_context *Search the model for matching statements in a given context.*

Description

Search the model for matching statements in a given context.

Usage

```
librdf_model_find_statements_in_context ( model,
statement,
inNodeOrNull )
```

Arguments

model	librdf_model object ("_p_librdf_model_s")
statement	librdf_statement partial statement to find ("_p_librdf_statement_s")
inNodeOrNull	context librdf_node (or NULL) ("_p_librdf_node_s")

Value

_p_librdf_stream_s

References

https://librdf.org/docs/

See Also

This R function is a wrapper function that directly calls the the Redland RDF C libraries. For more information about Redland RDF, view the online documentation indicated in the 'References' section.

librdf_model_get_arc *Return one arc (predicate) of an arc in an RDF graph given source (subject) and target (object).*

Description

Return one arc (predicate) of an arc in an RDF graph given source (subject) and target (object).

Usage

```
librdf_model_get_arc ( model,
source,
target )
```

Arguments

model	librdf_model object ("_p_librdf_model_s")
source	librdf_node source ("_p_librdf_node_s")
target	librdf_node target ("_p_librdf_node_s")

Value

_p_librdf_node_s

References

https://librdf.org/docs/

See Also

This R function is a wrapper function that directly calls the the Redland RDF C libraries. For more information about Redland RDF, view the online documentation indicated in the 'References' section.

---

librdf_model_get_arcs *Return the arcs (predicates) of an arc in an RDF graph given source (subject) and target (object).*

Description

Return the arcs (predicates) of an arc in an RDF graph given source (subject) and target (object).

Usage

```
librdf_model_get_arcs ( model,
source,
target )
```

Arguments

model	librdf_model object ("_p_librdf_model_s")
source	librdf_node source ("_p_librdf_node_s")
target	librdf_node target ("_p_librdf_node_s")

Value

_p_librdf_iterator_s

References

https://librdf.org/docs/

See Also

This R function is a wrapper function that directly calls the the Redland RDF C libraries. For more information about Redland RDF, view the online documentation indicated in the 'References' section.

`librdf_model_get_arcs_in`
Return the properties pointing to the given resource.

Description

Return the properties pointing to the given resource.

Usage

```
librdf_model_get_arcs_in ( model,
node )
```

Arguments

`model`	librdf_model object ("_p_librdf_model_s")
`node`	librdf_node resource node ("_p_librdf_node_s")

Value

_p_librdf_iterator_s

References

https://librdf.org/docs/

See Also

This R function is a wrapper function that directly calls the the Redland RDF C libraries. For more information about Redland RDF, view the online documentation indicated in the 'References' section.

librdf_model_get_arcs_out *Return the properties pointing from the given resource.*

Description

Return the properties pointing from the given resource.

Usage

```
librdf_model_get_arcs_out ( model,
node )
```

Arguments

model	librdf_model object ("_p_librdf_model_s")
node	librdf_node resource node ("_p_librdf_node_s")

Value

_p_librdf_iterator_s

References

https://librdf.org/docs/

See Also

This R function is a wrapper function that directly calls the the Redland RDF C libraries. For more information about Redland RDF, view the online documentation indicated in the 'References' section.

---

librdf_model_get_contexts *Return the list of contexts in the graph.*

Description

Return the list of contexts in the graph.

Usage

```
librdf_model_get_contexts ( model )
```

Arguments

model	librdf_model object ("_p_librdf_model_s")

Value

_p_librdf_iterator_s

References

https://librdf.org/docs/

See Also

This R function is a wrapper function that directly calls the the Redland RDF C libraries. For more information about Redland RDF, view the online documentation indicated in the 'References' section.

---

librdf_model_get_feature

Get the value of a graph feature .

Description

Get the value of a graph feature .

Usage

```
librdf_model_get_feature ( model,
feature )
```

Arguments

model	librdf_model object ("_p_librdf_model_s")
feature	librdf_uri feature property ("_p_librdf_uri_s")

Value

_p_librdf_node_s

References

https://librdf.org/docs/

See Also

This R function is a wrapper function that directly calls the the Redland RDF C libraries. For more information about Redland RDF, view the online documentation indicated in the 'References' section.

librdf_model_get_source *Return one source (subject) of arc in an RDF graph given arc (predicate) and target (object).*

Description

Return one source (subject) of arc in an RDF graph given arc (predicate) and target (object).

Usage

```
librdf_model_get_source ( model,
arc,
target )
```

Arguments

model	librdf_model object ("_p_librdf_model_s")
arc	librdf_node arc ("_p_librdf_node_s")
target	librdf_node target ("_p_librdf_node_s")

Value

_p_librdf_node_s

References

https://librdf.org/docs/

See Also

This R function is a wrapper function that directly calls the the Redland RDF C libraries. For more information about Redland RDF, view the online documentation indicated in the 'References' section.

librdf_model_get_sources *Return the sources (subjects) of arc in an RDF graph given arc (predicate) and target (object).*

Description

Return the sources (subjects) of arc in an RDF graph given arc (predicate) and target (object).

Usage

```
librdf_model_get_sources ( model,
arc,
target )
```

Arguments

model	librdf_model object ("_p_librdf_model_s")
arc	librdf_node arc ("_p_librdf_node_s")
target	librdf_node target ("_p_librdf_node_s")

Value

_p_librdf_iterator_s

References

https://librdf.org/docs/

See Also

This R function is a wrapper function that directly calls the the Redland RDF C libraries. For more information about Redland RDF, view the online documentation indicated in the 'References' section.

`librdf_model_get_target` *Return one target (object) of an arc in an RDF graph given source (subject) and arc (predicate).*

Description

Return one target (object) of an arc in an RDF graph given source (subject) and arc (predicate).

Usage

```
librdf_model_get_target ( model,
source,
arc )
```

Arguments

model	librdf_model object ("_p_librdf_model_s")
source	librdf_node source ("_p_librdf_node_s")
arc	librdf_node arc ("_p_librdf_node_s")

Value

_p_librdf_node_s

References

https://librdf.org/docs/

See Also

This R function is a wrapper function that directly calls the the Redland RDF C libraries. For more information about Redland RDF, view the online documentation indicated in the 'References' section.

`librdf_model_get_targets`
Return the targets (objects) of an arc in an RDF graph given source (subject) and arc (predicate).

Description

Return the targets (objects) of an arc in an RDF graph given source (subject) and arc (predicate).

Usage

```
librdf_model_get_targets ( model,
source,
arc )
```

Arguments

`model`	librdf_model object ("_p_librdf_model_s")
`source`	librdf_node source ("_p_librdf_node_s")
`arc`	librdf_node arc ("_p_librdf_node_s")

Value

_p_librdf_iterator_s

References

https://librdf.org/docs/

See Also

This R function is a wrapper function that directly calls the the Redland RDF C libraries. For more information about Redland RDF, view the online documentation indicated in the 'References' section.

librdf_model_has_arc_in *Check if a node has a given property pointing to it.*

Description

Check if a node has a given property pointing to it.

Usage

```
librdf_model_has_arc_in ( model,
node,
property,
.copy )
```

Arguments

model	librdf_model object ("_p_librdf_model_s")
node	librdf_node resource node ("_p_librdf_node_s")
property	librdf_node property node ("_p_librdf_node_s")
.copy	NA

Value

integer

References

https://librdf.org/docs/

See Also

This R function is a wrapper function that directly calls the the Redland RDF C libraries. For more information about Redland RDF, view the online documentation indicated in the 'References' section.

librdf_model_has_arc_out *Check if a node has a given property pointing from it.*

Description

Check if a node has a given property pointing from it.

Usage

```
librdf_model_has_arc_out ( model,
node,
property,
.copy )
```

Arguments

model	librdf_model object ("_p_librdf_model_s")
node	librdf_node resource node ("_p_librdf_node_s")
property	librdf_node property node ("_p_librdf_node_s")
.copy	NA

Value

integer

References

https://librdf.org/docs/

See Also

This R function is a wrapper function that directly calls the the Redland RDF C libraries. For more information about Redland RDF, view the online documentation indicated in the 'References' section.

librdf_model_load *Load content from a URI into the model.*

Description

Load content from a URI into the model.

Usage

```
librdf_model_load ( model,
uri,
name,
mime_type,
type_uri,
.copy )
```

Arguments

model	librdf_model object ("_p_librdf_model_s")
uri	the URI to read the content ("_p_librdf_uri_s")
name	the name of the parser (or NULL) ("character")
mime_type	the MIME type of the syntax (NULL if not used) ("character")
type_uri	URI identifying the syntax (NULL if not used) ("_p_librdf_uri_s")
.copy	NA

Value

integer

References

https://librdf.org/docs/

See Also

This R function is a wrapper function that directly calls the the Redland RDF C libraries. For more information about Redland RDF, view the online documentation indicated in the 'References' section.

librdf_model_query_execute *Execute a query against the model.*

Description

Execute a query against the model.

Usage

```
librdf_model_query_execute ( model,
query )
```

Arguments

model	librdf_model object ("_p_librdf_model_s")
query	librdf_query object ("_p_librdf_query")

Value

_p_librdf_query_results

References

https://librdf.org/docs/

See Also

This R function is a wrapper function that directly calls the the Redland RDF C libraries. For more information about Redland RDF, view the online documentation indicated in the 'References' section.

librdf_model_remove_statement *Remove a known statement from the model.*

Description

Remove a known statement from the model.

Usage

```
librdf_model_remove_statement ( model,
statement,
.copy )
```

Arguments

model	the model object ("_p_librdf_model_s")
statement	the statement ("_p_librdf_statement_s")
.copy	NA

Value

integer

References

https://librdf.org/docs/

See Also

This R function is a wrapper function that directly calls the the Redland RDF C libraries. For more information about Redland RDF, view the online documentation indicated in the 'References' section.

---

librdf_model_set_feature

Set the value of a graph feature.

Description

Set the value of a graph feature.

Usage

```
librdf_model_set_feature ( model,
feature,
value,
.copy )
```

Arguments

model	librdf_model object ("_p_librdf_model_s")
feature	librdf_uri feature property ("_p_librdf_uri_s")
value	librdf_node feature property value ("_p_librdf_node_s")
.copy	NA

Value

integer

References

https://librdf.org/docs/

See Also

This R function is a wrapper function that directly calls the the Redland RDF C libraries. For more information about Redland RDF, view the online documentation indicated in the 'References' section.

`librdf_model_size` *Get the number of statements in the model.*

Description

Get the number of statements in the model.

Usage

```
librdf_model_size ( model,
.copy )
```

Arguments

`model`	librdf_model object ("_p_librdf_model_s")
`.copy`	NA

Value

integer

References

https://librdf.org/docs/

See Also

This R function is a wrapper function that directly calls the the Redland RDF C libraries. For more information about Redland RDF, view the online documentation indicated in the 'References' section.

librdf_model_sync *Synchronise the model to the model implementation.*

Description

Synchronise the model to the model implementation.

Usage

```
librdf_model_sync ( model )
```

Arguments

model	librdf_model object ("_p_librdf_model_s")

Value

void

References

https://librdf.org/docs/

See Also

This R function is a wrapper function that directly calls the the Redland RDF C libraries. For more information about Redland RDF, view the online documentation indicated in the 'References' section.

librdf_model_to_string *Write serialized model to a string.*

Description

Write serialized model to a string.

Usage

```
librdf_model_to_string ( model,
uri,
name,
mime_type,
inUriOrNull )
```

Arguments

model	librdf_model object ("_p_librdf_model_s")
uri	base URI to use in serializing (or NULL if not used) ("_p_librdf_uri_s")
name	the name of the serializer (or NULL for default) ("character")
mime_type	the MIME type of the syntax (NULL if not used) ("character")
inUriOrNull	URI identifying the syntax (NULL if not used) ("_p_librdf_uri_s")

Value

character

References

https://librdf.org/docs/

See Also

This R function is a wrapper function that directly calls the the Redland RDF C libraries. For more information about Redland RDF, view the online documentation indicated in the 'References' section.

---

librdf_model_transaction_commit

Commit a transaction.

Description

Commit a transaction.

Usage

```
librdf_model_transaction_commit ( model,
.copy )
```

Arguments

model	the model object ("_p_librdf_model_s")
.copy	NA

Value

integer

References

https://librdf.org/docs/

See Also

This R function is a wrapper function that directly calls the the Redland RDF C libraries. For more information about Redland RDF, view the online documentation indicated in the 'References' section.

`librdf_model_transaction_rollback` *Rollback a transaction.*

Description

Rollback a transaction.

Usage

```
librdf_model_transaction_rollback ( model,
.copy )
```

Arguments

`model`	the model object ("_p_librdf_model_s")
`.copy`	NA

Value

integer

References

https://librdf.org/docs/

See Also

This R function is a wrapper function that directly calls the the Redland RDF C libraries. For more information about Redland RDF, view the online documentation indicated in the 'References' section.

librdf_model_transaction_start *Start a transaction*

Description

Start a transaction

Usage

```
librdf_model_transaction_start ( model,
.copy )
```

Arguments

model	the model object ("_p_librdf_model_s")
.copy	NA

Value

integer

References

https://librdf.org/docs/

See Also

This R function is a wrapper function that directly calls the the Redland RDF C libraries. For more information about Redland RDF, view the online documentation indicated in the 'References' section.

librdf_new_digest *Constructor - create a new librdf_digest object.*

Description

Constructor - create a new librdf_digest object.

Usage

```
librdf_new_digest ( world,
name )
```

Arguments

world	redland world object ("_p_librdf_world_s")
name	the digest name to use to create this digest ("character")

Value

_p_librdf_digest_s

References

https://librdf.org/docs/

See Also

This R function is a wrapper function that directly calls the the Redland RDF C libraries. For more information about Redland RDF, view the online documentation indicated in the 'References' section.

---

librdf_new_hash *Constructor - create a new librdf_hash object.*

Description

Constructor - create a new librdf_hash object.

Usage

```
librdf_new_hash ( world,
name )
```

Arguments

world	redland world object ("_p_librdf_world_s")
name	factory name ("character")

Value

_p_librdf_hash_s

References

https://librdf.org/docs/

See Also

This R function is a wrapper function that directly calls the the Redland RDF C libraries. For more information about Redland RDF, view the online documentation indicated in the 'References' section.

librdf_new_hash_from_array_of_strings
Constructor - create a new librdf_hash object from an array of strings.

Description

Constructor - create a new librdf_hash object from an array of strings.

Usage

```
librdf_new_hash_from_array_of_strings ( world,
name,
string )
```

Arguments

world	redland world object ("_p_librdf_world_s")
name	hash name ("character")
string	address of the start of the array of char* pointers ("character")

Value

_p_librdf_hash_s

References

https://librdf.org/docs/

See Also

This R function is a wrapper function that directly calls the the Redland RDF C libraries. For more information about Redland RDF, view the online documentation indicated in the 'References' section.

librdf_new_hash_from_string
Constructor - create a new librdf_hash object from a string.

Description

Constructor - create a new librdf_hash object from a string.

Usage

```
librdf_new_hash_from_string ( world,
name,
string )
```

Arguments

world	redland world object ("_p_librdf_world_s")
name	hash name ("character")
string	hash encoded as a string ("character")

Value

_p_librdf_hash_s

References

https://librdf.org/docs/

See Also

This R function is a wrapper function that directly calls the the Redland RDF C libraries. For more information about Redland RDF, view the online documentation indicated in the 'References' section.

---

librdf_new_model *Constructor - create a new storage librdf_model object.*

Description

Constructor - create a new storage librdf_model object.

Usage

```
librdf_new_model ( world,
storage,
options_string )
```

Arguments

world	redland world object ("_p_librdf_world_s")
storage	librdf_storage to use ("_p_librdf_storage_s")
options_string	options to initialise model ("character")

Value

_p_librdf_model_s

References

https://librdf.org/docs/

See Also

This R function is a wrapper function that directly calls the the Redland RDF C libraries. For more information about Redland RDF, view the online documentation indicated in the 'References' section.

`librdf_new_model_from_model`
Copy constructor - create a new librdf_model from an existing one.

Description

Copy constructor - create a new librdf_model from an existing one.

Usage

```
librdf_new_model_from_model ( model )
```

Arguments

`model`	the existing librdf_model ("_p_librdf_model_s")

Value

_p_librdf_model_s

References

https://librdf.org/docs/

See Also

This R function is a wrapper function that directly calls the the Redland RDF C libraries. For more information about Redland RDF, view the online documentation indicated in the 'References' section.

librdf_new_model_with_options *Constructor - Create a new librdf_model with storage.*

Description

Constructor - Create a new librdf_model with storage.

Usage

```
librdf_new_model_with_options ( world,
storage,
options )
```

Arguments

world	redland world object ("_p_librdf_world_s")
storage	librdf_storage storage to use ("_p_librdf_storage_s")
options	librdf_hash of options to use ("_p_librdf_hash_s")

Value

_p_librdf_model_s

References

https://librdf.org/docs/

See Also

This R function is a wrapper function that directly calls the the Redland RDF C libraries. For more information about Redland RDF, view the online documentation indicated in the 'References' section.

librdf_new_node *Constructor - create a new librdf_node object with a private identifier.*

Description

Constructor - create a new librdf_node object with a private identifier.

Usage

```
librdf_new_node ( world )
```

Arguments

world	redland world object ("_p_librdf_world_s")

Value

_p_librdf_node_s

References

https://librdf.org/docs/

See Also

This R function is a wrapper function that directly calls the the Redland RDF C libraries. For more information about Redland RDF, view the online documentation indicated in the 'References' section.

---

librdf_new_node_from_blank_identifier

Constructor - create a new blank node librdf_node object from a blank node identifier.

Description

Constructor - create a new blank node librdf_node object from a blank node identifier.

Usage

```
librdf_new_node_from_blank_identifier ( world,
inStrOrNull )
```

Arguments

world	redland world object ("_p_librdf_world_s")
inStrOrNull	UTF-8 encoded blank node identifier or NULL ("character")

Value

_p_librdf_node_s

References

https://librdf.org/docs/

See Also

This R function is a wrapper function that directly calls the the Redland RDF C libraries. For more information about Redland RDF, view the online documentation indicated in the 'References' section.

librdf_new_node_from_literal
Constructor - create a new literal librdf_node object.

Description

Constructor - create a new literal librdf_node object.

Usage

```
librdf_new_node_from_literal ( world,
string,
inStrOrNull,
is_wf_xml )
```

Arguments

world	redland world object ("_p_librdf_world_s")
string	literal UTF-8 encoded string value ("character")
inStrOrNull	literal XML language (or NULL, empty string) ("character")
is_wf_xml	non 0 if literal is XML ("integer")

Value

_p_librdf_node_s

References

https://librdf.org/docs/

See Also

This R function is a wrapper function that directly calls the the Redland RDF C libraries. For more information about Redland RDF, view the online documentation indicated in the 'References' section.

`librdf_new_node_from_node`

Copy constructor - create a new librdf_node object from an existing librdf_node object.

Description

Copy constructor - create a new librdf_node object from an existing librdf_node object.

Usage

```
librdf_new_node_from_node ( node )
```

Arguments

node	librdf_node object to copy ("_p_librdf_node_s")

Value

_p_librdf_node_s

References

https://librdf.org/docs/

See Also

This R function is a wrapper function that directly calls the the Redland RDF C libraries. For more information about Redland RDF, view the online documentation indicated in the 'References' section.

`librdf_new_node_from_normalised_uri_string`

Constructor - create a new librdf_node object from a UTF-8 encoded URI string normalised to a new base URI.

Description

Constructor - create a new librdf_node object from a UTF-8 encoded URI string normalised to a new base URI.

Usage

```
librdf_new_node_from_normalised_uri_string ( world,
uri_string,
source_uri,
base_uri )
```

Arguments

world	redland world object ("_p_librdf_world_s")
uri_string	UTF-8 encoded string representing a URI ("character")
source_uri	source URI ("_p_librdf_uri_s")
base_uri	base URI ("_p_librdf_uri_s")

Value

_p_librdf_node_s

References

https://librdf.org/docs/

See Also

This R function is a wrapper function that directly calls the the Redland RDF C libraries. For more information about Redland RDF, view the online documentation indicated in the 'References' section.

---

librdf_new_node_from_typed_literal

Constructor - create a new typed literal librdf_node object.

Description

Constructor - create a new typed literal librdf_node object.

Usage

```
librdf_new_node_from_typed_literal ( world,
string,
inStrOrNull,
inUriOrNull )
```

Arguments

world	redland world object ("_p_librdf_world_s")
string	literal UTF-8 encoded string value ("character")
inStrOrNull	literal XML language (or NULL, empty string) ("character")
inUriOrNull	URI of typed literal datatype or NULL ("_p_librdf_uri_s")

Value

_p_librdf_node_s

References

https://librdf.org/docs/

See Also

This R function is a wrapper function that directly calls the the Redland RDF C libraries. For more information about Redland RDF, view the online documentation indicated in the 'References' section.

`librdf_new_node_from_uri` *Constructor - create a new resource librdf_node object with a given URI.*

Description

Constructor - create a new resource librdf_node object with a given URI.

Usage

```
librdf_new_node_from_uri ( world,
uri )
```

Arguments

`world`	redland world object ("_p_librdf_world_s")
`uri`	librdf_uri object ("_p_librdf_uri_s")

Value

_p_librdf_node_s

References

https://librdf.org/docs/

See Also

This R function is a wrapper function that directly calls the the Redland RDF C libraries. For more information about Redland RDF, view the online documentation indicated in the 'References' section.

librdf_new_node_from_uri_local_name
Constructor - create a new resource librdf_node object with a given URI and local name.

Description

Constructor - create a new resource librdf_node object with a given URI and local name.

Usage

```
librdf_new_node_from_uri_local_name ( world,
uri,
local_name )
```

Arguments

world	redland world object ("_p_librdf_world_s")
uri	librdf_uri object ("_p_librdf_uri_s")
local_name	local name to append to URI ("character")

Value

_p_librdf_node_s

References

https://librdf.org/docs/

See Also

This R function is a wrapper function that directly calls the the Redland RDF C libraries. For more information about Redland RDF, view the online documentation indicated in the 'References' section.

librdf_new_node_from_uri_string
Constructor - create a new librdf_node object from a URI string.

Description

Constructor - create a new librdf_node object from a URI string.

Usage

```
librdf_new_node_from_uri_string ( world,
string )
```

Arguments

world	redland world object ("_p_librdf_world_s")
string	string representing a URI ("character")

Value

_p_librdf_node_s

References

https://librdf.org/docs/

See Also

This R function is a wrapper function that directly calls the the Redland RDF C libraries. For more information about Redland RDF, view the online documentation indicated in the 'References' section.

---

librdf_new_parser *Constructor - create a new librdf_parser object.*

Description

Constructor - create a new librdf_parser object.

Usage

```
librdf_new_parser ( world,
name,
mime_type,
type_uri )
```

Arguments

world	redland world object ("_p_librdf_world_s")
name	the parser factory name (or NULL or empty string if don't care) ("character")
mime_type	the MIME type of the syntax (NULL if not used) ("character")
type_uri	URI of syntax (NULL if not used) ("_p_librdf_uri_s")

Value

_p_librdf_parser_s

References

https://librdf.org/docs/

See Also

This R function is a wrapper function that directly calls the the Redland RDF C libraries. For more information about Redland RDF, view the online documentation indicated in the 'References' section.

`librdf_new_query` *Constructor - create a new librdf_query object.*

Description

Constructor - create a new librdf_query object.

Usage

```
librdf_new_query ( world,
name,
uri,
query_string,
base_uri )
```

Arguments

`world`	redland world object ("_p_librdf_world_s")
`name`	the name identifying the query language ("character")
`uri`	the URI identifying the query language (or NULL) ("_p_librdf_uri_s")
`query_string`	the query string ("character")
`base_uri`	the base URI of the query string (or NULL) ("_p_librdf_uri_s")

Value

_p_librdf_query

References

https://librdf.org/docs/

See Also

This R function is a wrapper function that directly calls the the Redland RDF C libraries. For more information about Redland RDF, view the online documentation indicated in the 'References' section.

librdf_new_query_from_query *Copy constructor - create a new librdf_query object from an existing one*

Description

Copy constructor - create a new librdf_query object from an existing one

Usage

```
librdf_new_query_from_query ( old_query )
```

Arguments

old_query	the existing query librdf_query to use ("_p_librdf_query")

Value

_p_librdf_query

References

https://librdf.org/docs/

See Also

This R function is a wrapper function that directly calls the the Redland RDF C libraries. For more information about Redland RDF, view the online documentation indicated in the 'References' section.

librdf_new_serializer *Constructor - create a new librdf_serializer object.*

Description

Constructor - create a new librdf_serializer object.

Usage

```
librdf_new_serializer ( world,
name,
mime_type,
type_uri )
```

Arguments

world	redland world object ("_p_librdf_world_s")
name	the serializer factory name (or NULL or empty string if don't care) ("character")
mime_type	the MIME type of the syntax (NULL if not used) ("character")
type_uri	URI of syntax (NULL if not used) ("_p_librdf_uri_s")

Value

_p_librdf_serializer_s

References

https://librdf.org/docs/

See Also

This R function is a wrapper function that directly calls the the Redland RDF C libraries. For more information about Redland RDF, view the online documentation indicated in the 'References' section.

---

librdf_new_statement *Constructor - create a new empty librdf_statement.*

Description

Constructor - create a new empty librdf_statement.

Usage

```
librdf_new_statement ( world )
```

Arguments

world	redland world object ("_p_librdf_world_s")

Value

_p_librdf_statement_s

References

https://librdf.org/docs/

See Also

This R function is a wrapper function that directly calls the the Redland RDF C libraries. For more information about Redland RDF, view the online documentation indicated in the 'References' section.

librdf_new_statement_from_nodes *Constructor - create a new librdf_statement from existing librdf_node objects.*

Description

Constructor - create a new librdf_statement from existing librdf_node objects.

Usage

```
librdf_new_statement_from_nodes ( world,
subject,
predicate,
object )
```

Arguments

world	redland world object ("_p_librdf_world_s")
subject	librdf_node ("_p_librdf_node_s")
predicate	librdf_node ("_p_librdf_node_s")
object	librdf_node ("_p_librdf_node_s")

Value

_p_librdf_statement_s

References

https://librdf.org/docs/

See Also

This R function is a wrapper function that directly calls the the Redland RDF C libraries. For more information about Redland RDF, view the online documentation indicated in the 'References' section.

librdf_new_statement_from_statement *Copy constructor - create a new librdf_statement from an existing librdf_statement. Creates a deep copy - changes to original statement nodes are not reflected in the copy.*

Description

Copy constructor - create a new librdf_statement from an existing librdf_statement. Creates a deep copy - changes to original statement nodes are not reflected in the copy.

Usage

```
librdf_new_statement_from_statement ( statement )
```

Arguments

statement	librdf_statement to copy ("_p_librdf_statement_s")

Value

_p_librdf_statement_s

References

https://librdf.org/docs/

See Also

This R function is a wrapper function that directly calls the the Redland RDF C libraries. For more information about Redland RDF, view the online documentation indicated in the 'References' section.

librdf_new_storage *Constructor - create a new librdf_storage object.*

Description

Constructor - create a new librdf_storage object.

Usage

```
librdf_new_storage ( world,
storage_name,
name,
options_string )
```

Arguments

world	redland world object ("_p_librdf_world_s")
storage_name	the storage factory name ("character")
name	an identifier for the storage ("character")
options_string	options to initialise storage ("character")

Value

_p_librdf_storage_s

References

https://librdf.org/docs/

See Also

This R function is a wrapper function that directly calls the the Redland RDF C libraries. For more information about Redland RDF, view the online documentation indicated in the 'References' section.

---

librdf_new_storage_from_storage

Copy constructor - create a new librdf_storage object from an existing one

---

Description

Copy constructor - create a new librdf_storage object from an existing one

Usage

```
librdf_new_storage_from_storage ( old_storage )
```

Arguments

old_storage	the existing storage librdf_storage to use ("_p_librdf_storage_s")

Value

_p_librdf_storage_s

References

https://librdf.org/docs/

See Also

This R function is a wrapper function that directly calls the the Redland RDF C libraries. For more information about Redland RDF, view the online documentation indicated in the 'References' section.

`librdf_new_uri` *Constructor - create a new librdf_uri object from a URI string.*

Description

Constructor - create a new librdf_uri object from a URI string.

Usage

```
librdf_new_uri ( world,
string )
```

Arguments

`world`	redland world object ("_p_librdf_world_s")
`string`	URI in string form ("character")

Value

_p_librdf_uri_s

References

https://librdf.org/docs/

See Also

This R function is a wrapper function that directly calls the the Redland RDF C libraries. For more information about Redland RDF, view the online documentation indicated in the 'References' section.

librdf_new_uri_from_filename *Constructor - create a new librdf_uri object from a filename.*

Description

Constructor - create a new librdf_uri object from a filename.

Usage

```
librdf_new_uri_from_filename ( world,
filename )
```

Arguments

world	Redland librdf_world object ("_p_librdf_world_s")
filename	filename ("character")

Value

_p_librdf_uri_s

References

https://librdf.org/docs/

See Also

This R function is a wrapper function that directly calls the the Redland RDF C libraries. For more information about Redland RDF, view the online documentation indicated in the 'References' section.

librdf_new_uri_from_uri *Copy constructor - create a new librdf_uri object from an existing librdf_uri object.*

Description

Copy constructor - create a new librdf_uri object from an existing librdf_uri object.

Usage

```
librdf_new_uri_from_uri ( uri )
```

Arguments

uri	librdf_uri object ("_p_librdf_uri_s")

Value

_p_librdf_uri_s

References

https://librdf.org/docs/

See Also

This R function is a wrapper function that directly calls the the Redland RDF C libraries. For more information about Redland RDF, view the online documentation indicated in the 'References' section.

---

librdf_new_world *Create a new Redland execution environment.*

Description

Create a new Redland execution environment.

Usage

```
librdf_new_world (  )
```

Value

_p_librdf_world_s

References

https://librdf.org/docs/

See Also

This R function is a wrapper function that directly calls the the Redland RDF C libraries. For more information about Redland RDF, view the online documentation indicated in the 'References' section.

librdf_node_equals *Compare two librdf_node objects for equality.*

Description

Compare two librdf_node objects for equality.

Usage

```
librdf_node_equals ( first_node,
second_node,
.copy )
```

Arguments

first_node	first librdf_node node ("_p_librdf_node_s")
second_node	second librdf_node node ("_p_librdf_node_s")
.copy	NA

Value

integer

References

https://librdf.org/docs/

See Also

This R function is a wrapper function that directly calls the the Redland RDF C libraries. For more information about Redland RDF, view the online documentation indicated in the 'References' section.

librdf_node_get_blank_identifier *Get the blank node identifier as a UTF-8 encoded string.*

Description

Get the blank node identifier as a UTF-8 encoded string.

Usage

```
librdf_node_get_blank_identifier ( node )
```

Arguments

node	the node object ("_p_librdf_node_s")

Value

character

References

https://librdf.org/docs/

See Also

This R function is a wrapper function that directly calls the the Redland RDF C libraries. For more information about Redland RDF, view the online documentation indicated in the 'References' section.

---

librdf_node_get_literal_value

Get the literal value of the node as a UTF-8 encoded string.

Description

Get the literal value of the node as a UTF-8 encoded string.

Usage

```
librdf_node_get_literal_value ( node )
```

Arguments

node	the node object ("_p_librdf_node_s")

Value

character

References

https://librdf.org/docs/

See Also

This R function is a wrapper function that directly calls the the Redland RDF C libraries. For more information about Redland RDF, view the online documentation indicated in the 'References' section.

librdf_node_get_literal_value_as_latin1 *Get the string literal value of the node as ISO Latin-1.*

Description

Get the string literal value of the node as ISO Latin-1.

Usage

```
librdf_node_get_literal_value_as_latin1 ( node )
```

Arguments

node	the node object ("_p_librdf_node_s")

Value

character

References

https://librdf.org/docs/

See Also

This R function is a wrapper function that directly calls the the Redland RDF C libraries. For more information about Redland RDF, view the online documentation indicated in the 'References' section.

librdf_node_get_literal_value_datatype_uri *Get the typed literal datatype URI of the literal node.*

Description

Get the typed literal datatype URI of the literal node.

Usage

```
librdf_node_get_literal_value_datatype_uri ( node )
```

Arguments

node	the node object ("_p_librdf_node_s")

Value

_p_librdf_uri_s

References

https://librdf.org/docs/

See Also

This R function is a wrapper function that directly calls the the Redland RDF C libraries. For more information about Redland RDF, view the online documentation indicated in the 'References' section.

`librdf_node_get_literal_value_is_wf_xml`
Get the XML well-formness property of the node.

Description

Get the XML well-formness property of the node.

Usage

```
librdf_node_get_literal_value_is_wf_xml ( node,
.copy )
```

Arguments

node	the node object ("_p_librdf_node_s")
.copy	NA

Value

integer

References

https://librdf.org/docs/

See Also

This R function is a wrapper function that directly calls the the Redland RDF C libraries. For more information about Redland RDF, view the online documentation indicated in the 'References' section.

librdf_node_get_literal_value_language
Get the XML language of the node.

Description

Get the XML language of the node.

Usage

```
librdf_node_get_literal_value_language ( node )
```

Arguments

node	the node object ("_p_librdf_node_s")

Value

character

References

https://librdf.org/docs/

See Also

This R function is a wrapper function that directly calls the the Redland RDF C libraries. For more information about Redland RDF, view the online documentation indicated in the 'References' section.

librdf_node_get_li_ordinal
Get the node li object ordinal value.

Description

Get the node li object ordinal value.

Usage

```
librdf_node_get_li_ordinal ( node,
.copy )
```

Arguments

node	the node object ("_p_librdf_node_s")
.copy	NA

Value

integer

References

https://librdf.org/docs/

See Also

This R function is a wrapper function that directly calls the the Redland RDF C libraries. For more information about Redland RDF, view the online documentation indicated in the 'References' section.

---

librdf_node_get_type *Get the type of the node.*

Description

Get the type of the node.

Usage

```
librdf_node_get_type ( node,
.copy )
```

Arguments

node	the node object ("_p_librdf_node_s")
.copy	NA

Value

integer

References

https://librdf.org/docs/

See Also

This R function is a wrapper function that directly calls the the Redland RDF C libraries. For more information about Redland RDF, view the online documentation indicated in the 'References' section.

librdf_node_get_uri *Get the URI for a node object.*

Description

Get the URI for a node object.

Usage

```
librdf_node_get_uri ( node )
```

Arguments

node	the node object ("_p_librdf_node_s")

Value

_p_librdf_uri_s

References

https://librdf.org/docs/

See Also

This R function is a wrapper function that directly calls the the Redland RDF C libraries. For more information about Redland RDF, view the online documentation indicated in the 'References' section.

librdf_node_is_blank *Check node is a blank nodeID.*

Description

Check node is a blank nodeID.

Usage

```
librdf_node_is_blank ( node,
.copy )
```

Arguments

node	the node object ("_p_librdf_node_s")
.copy	NA

Value

integer

References

https://librdf.org/docs/

See Also

This R function is a wrapper function that directly calls the the Redland RDF C libraries. For more information about Redland RDF, view the online documentation indicated in the 'References' section.

`librdf_node_is_literal` *Check node is a literal.*

Description

Check node is a literal.

Usage

```
librdf_node_is_literal ( node,
.copy )
```

Arguments

node	the node object ("_p_librdf_node_s")
.copy	NA

Value

integer

References

https://librdf.org/docs/

See Also

This R function is a wrapper function that directly calls the the Redland RDF C libraries. For more information about Redland RDF, view the online documentation indicated in the 'References' section.

librdf_node_is_resource *Check node is a resource.*

Description

Check node is a resource.

Usage

```
librdf_node_is_resource ( node,
.copy )
```

Arguments

node	the node object ("_p_librdf_node_s")
.copy	NA

Value

integer

References

https://librdf.org/docs/

See Also

This R function is a wrapper function that directly calls the the Redland RDF C libraries. For more information about Redland RDF, view the online documentation indicated in the 'References' section.

librdf_parser_check_name *Check if a parser name is known*

Description

Check if a parser name is known

Usage

```
librdf_parser_check_name ( world,
name,
.copy )
```

Arguments

world	redland world object ("_p_librdf_world_s")
name	name of parser ("character")
.copy	NA

Value

integer

References

https://librdf.org/docs/

See Also

This R function is a wrapper function that directly calls the the Redland RDF C libraries. For more information about Redland RDF, view the online documentation indicated in the 'References' section.

---

librdf_parser_get_accept_header

Get an HTTP Accept value for the parser.

Description

Get an HTTP Accept value for the parser.

Usage

```
librdf_parser_get_accept_header ( parser )
```

Arguments

parser	parser ("_p_librdf_parser_s")

Value

character

References

https://librdf.org/docs/

See Also

This R function is a wrapper function that directly calls the the Redland RDF C libraries. For more information about Redland RDF, view the online documentation indicated in the 'References' section.

librdf_parser_get_feature *Get the value of a parser feature.*

Description

Get the value of a parser feature.

Usage

```
librdf_parser_get_feature ( parser,
feature )
```

Arguments

parser	librdf_parser object ("_p_librdf_parser_s")
feature	librdf_Uuri feature property ("_p_librdf_uri_s")

Value

_p_librdf_node_s

References

https://librdf.org/docs/

See Also

This R function is a wrapper function that directly calls the the Redland RDF C libraries. For more information about Redland RDF, view the online documentation indicated in the 'References' section.

librdf_parser_get_namespaces_seen_count *Get the number of namespaces seen during parsing*

Description

Get the number of namespaces seen during parsing

Usage

```
librdf_parser_get_namespaces_seen_count ( parser,
.copy )
```

Arguments

parser	librdf_parser object ("_p_librdf_parser_s")
.copy	NA

Value

integer

References

https://librdf.org/docs/

See Also

This R function is a wrapper function that directly calls the the Redland RDF C libraries. For more information about Redland RDF, view the online documentation indicated in the 'References' section.

---

librdf_parser_get_namespaces_seen_prefix

Get the prefix of namespaces seen during parsing

Description

Get the prefix of namespaces seen during parsing

Usage

```
librdf_parser_get_namespaces_seen_prefix ( parser,
offset )
```

Arguments

parser	librdf_parser object ("_p_librdf_parser_s")
offset	index into list of namespaces ("integer")

Value

character

References

https://librdf.org/docs/

See Also

This R function is a wrapper function that directly calls the the Redland RDF C libraries. For more information about Redland RDF, view the online documentation indicated in the 'References' section.

librdf_parser_get_namespaces_seen_uri
Get the uri of namespaces seen during parsing

Description

Get the uri of namespaces seen during parsing

Usage

```
librdf_parser_get_namespaces_seen_uri ( parser,
offset )
```

Arguments

parser	librdf_parser object ("_p_librdf_parser_s")
offset	index into list of namespaces ("integer")

Value

_p_librdf_uri_s

References

https://librdf.org/docs/

See Also

This R function is a wrapper function that directly calls the the Redland RDF C libraries. For more information about Redland RDF, view the online documentation indicated in the 'References' section.

librdf_parser_guess_name2
Get a parser name for content with type or identifier

Description

Get a parser name for content with type or identifier

Usage

```
librdf_parser_guess_name2 ( world,
mime_type,
buffer,
identifier )
```

Arguments

world	librdf_world object ("_p_librdf_world_s")
mime_type	MIME type of syntax or NULL ("character")
buffer	content buffer or NULL ("character")
identifier	content identifier or NULL ("character")

Value

character

References

https://librdf.org/docs/

See Also

This R function is a wrapper function that directly calls the the Redland RDF C libraries. For more information about Redland RDF, view the online documentation indicated in the 'References' section.

---

librdf_parser_parse_as_stream

Parse a URI to a librdf_stream of statements.

Description

Parse a URI to a librdf_stream of statements.

Usage

```
librdf_parser_parse_as_stream ( parser,
uri,
inUriorNull )
```

Arguments

parser	the parser ("_p_librdf_parser_s")
uri	the URI to read ("_p_librdf_uri_s")
inUriorNull	the base URI to use or NULL ("_p_librdf_uri_s")

Value

_p_librdf_stream_s

References

https://librdf.org/docs/

See Also

This R function is a wrapper function that directly calls the the Redland RDF C libraries. For more information about Redland RDF, view the online documentation indicated in the 'References' section.

`librdf_parser_parse_counted_string_as_stream`
Parse a counted string of content to a librdf_stream of statements.

Description

Parse a counted string of content to a librdf_stream of statements.

Usage

```
librdf_parser_parse_counted_string_as_stream ( parser,
string,
length,
base_uri )
```

Arguments

`parser`	the parser ("_p_librdf_parser_s")
`string`	the string to parse ("character")
`length`	length of the string content (must be >0) ("integer")
`base_uri`	the base URI to use or NULL ("_p_librdf_uri_s")

Value

_p_librdf_stream_s

References

https://librdf.org/docs/

See Also

This R function is a wrapper function that directly calls the the Redland RDF C libraries. For more information about Redland RDF, view the online documentation indicated in the 'References' section.

librdf_parser_parse_counted_string_into_model
Parse a counted string of content into an librdf_model.

Description

Parse a counted string of content into an librdf_model.

Usage

```
librdf_parser_parse_counted_string_into_model ( parser,
string,
length,
base_uri,
model,
.copy )
```

Arguments

parser	the parser ("_p_librdf_parser_s")
string	the content to parse ("character")
length	length of content (must be >0) ("integer")
base_uri	the base URI to use or NULL ("_p_librdf_uri_s")
model	the model to use ("_p_librdf_model_s")
.copy	NA

Value

integer

References

https://librdf.org/docs/

See Also

This R function is a wrapper function that directly calls the the Redland RDF C libraries. For more information about Redland RDF, view the online documentation indicated in the 'References' section.

librdf_parser_parse_into_model *Parse a URI of content into an librdf_model.*

Description

Parse a URI of content into an librdf_model.

Usage

```
librdf_parser_parse_into_model ( parser,
uri,
inUriOrNull,
model,
.copy )
```

Arguments

parser	the parser ("_p_librdf_parser_s")
uri	the URI to read the content ("_p_librdf_uri_s")
inUriOrNull	the base URI to use or NULL ("_p_librdf_uri_s")
model	the model to use ("_p_librdf_model_s")
.copy	NA

Value

integer

References

https://librdf.org/docs/

See Also

This R function is a wrapper function that directly calls the the Redland RDF C libraries. For more information about Redland RDF, view the online documentation indicated in the 'References' section.

librdf_parser_parse_string_as_stream
Parse a string of content to a librdf_stream of statements.

Description

Parse a string of content to a librdf_stream of statements.

Usage

```
librdf_parser_parse_string_as_stream ( parser,
string,
base_uri )
```

Arguments

parser	the parser ("_p_librdf_parser_s")
string	the string to parse ("character")
base_uri	the base URI to use or NULL ("_p_librdf_uri_s")

Value

_p_librdf_stream_s

References

https://librdf.org/docs/

See Also

This R function is a wrapper function that directly calls the the Redland RDF C libraries. For more information about Redland RDF, view the online documentation indicated in the 'References' section.

librdf_parser_parse_string_into_model
Parse a string of content into an librdf_model.

Description

Parse a string of content into an librdf_model.

Usage

```
librdf_parser_parse_string_into_model ( parser,
string,
base_uri,
model,
.copy )
```

Arguments

parser	the parser ("_p_librdf_parser_s")
string	the content to parse ("character")
base_uri	the base URI to use or NULL ("_p_librdf_uri_s")
model	the model to use ("_p_librdf_model_s")
.copy	NA

Value

integer

References

https://librdf.org/docs/

See Also

This R function is a wrapper function that directly calls the the Redland RDF C libraries. For more information about Redland RDF, view the online documentation indicated in the 'References' section.

---

librdf_parser_set_feature

Set the value of a parser feature.

Description

Set the value of a parser feature.

Usage

```
librdf_parser_set_feature ( parser,
feature,
value,
.copy )
```

Arguments

parser	librdf_parser object ("_p_librdf_parser_s")
feature	librdf_uri feature property ("_p_librdf_uri_s")
value	librdf_node feature property value ("_p_librdf_node_s")
.copy	NA

Value

integer

References

https://librdf.org/docs/

See Also

This R function is a wrapper function that directly calls the the Redland RDF C libraries. For more information about Redland RDF, view the online documentation indicated in the 'References' section.

---

librdf_query_execute *Run the query on a model.*

Description

Run the query on a model.

Usage

```
librdf_query_execute ( query,
model )
```

Arguments

query	librdf_query object ("_p_librdf_query")
model	model to operate query on ("_p_librdf_model_s")

Value

_p_librdf_query_results

References

https://librdf.org/docs/

See Also

This R function is a wrapper function that directly calls the the Redland RDF C libraries. For more information about Redland RDF, view the online documentation indicated in the 'References' section.

`librdf_query_get_limit`

Get the query-specified limit on results.

Description

Get the query-specified limit on results.

Usage

```
librdf_query_get_limit ( query,
.copy )
```

Arguments

`query`	librdf_query query object ("_p_librdf_query")
`.copy`	NA

Value

integer

References

https://librdf.org/docs/

See Also

This R function is a wrapper function that directly calls the the Redland RDF C libraries. For more information about Redland RDF, view the online documentation indicated in the 'References' section.

librdf_query_get_offset *Get the query-specified offset on results.*

Description

Get the query-specified offset on results.

Usage

```
librdf_query_get_offset ( query,
.copy )
```

Arguments

query	librdf_query query object ("_p_librdf_query")
.copy	NA

Value

integer

References

https://librdf.org/docs/

See Also

This R function is a wrapper function that directly calls the the Redland RDF C libraries. For more information about Redland RDF, view the online documentation indicated in the 'References' section.

librdf_query_results_as_stream *Get a query result as an RDF graph in librdf_stream form*

Description

Get a query result as an RDF graph in librdf_stream form

Usage

```
librdf_query_results_as_stream ( query_results )
```

Arguments

query_results	librdf_query_results query_results ("_p_librdf_query_results")

Value

_p_librdf_stream_s

References

https://librdf.org/docs/

See Also

This R function is a wrapper function that directly calls the the Redland RDF C libraries. For more information about Redland RDF, view the online documentation indicated in the 'References' section.

---

librdf_query_results_finished

Find out if binding results are exhausted.

Description

Find out if binding results are exhausted.

Usage

```
librdf_query_results_finished ( query_results,
.copy )
```

Arguments

query_results	librdf_query_results query results ("_p_librdf_query_results")
.copy	NA

Value

integer

References

https://librdf.org/docs/

See Also

This R function is a wrapper function that directly calls the the Redland RDF C libraries. For more information about Redland RDF, view the online documentation indicated in the 'References' section.

librdf_query_results_get_bindings_count
Get the number of bound variables in the result.

Description

Get the number of bound variables in the result.

Usage

```
librdf_query_results_get_bindings_count ( query_results,
.copy )
```

Arguments

query_results	librdf_query_results query results ("_p_librdf_query_results")
.copy	NA

Value

integer

References

https://librdf.org/docs/

See Also

This R function is a wrapper function that directly calls the the Redland RDF C libraries. For more information about Redland RDF, view the online documentation indicated in the 'References' section.

librdf_query_results_get_binding_name
Get binding name for the current result.

Description

Get binding name for the current result.

Usage

```
librdf_query_results_get_binding_name ( query_results,
offset )
```

Arguments

query_results	librdf_query_results query results ("_p_librdf_query_results")
offset	offset of binding name into array of known names ("integer")

Value

character

References

https://librdf.org/docs/

See Also

This R function is a wrapper function that directly calls the the Redland RDF C libraries. For more information about Redland RDF, view the online documentation indicated in the 'References' section.

---

librdf_query_results_get_binding_value

Get one binding value for the current result.

Description

Get one binding value for the current result.

Usage

```
librdf_query_results_get_binding_value ( query_results,
offset )
```

Arguments

query_results	librdf_query_results query results ("_p_librdf_query_results")
offset	offset of binding name into array of known names ("integer")

Value

_p_librdf_node_s

References

https://librdf.org/docs/

See Also

This R function is a wrapper function that directly calls the the Redland RDF C libraries. For more information about Redland RDF, view the online documentation indicated in the 'References' section.

librdf_query_results_get_binding_value_by_name
Get one binding value for a given name in the current result.

Description

Get one binding value for a given name in the current result.

Usage

```
librdf_query_results_get_binding_value_by_name ( query_results,
name )
```

Arguments

query_results	librdf_query_results query results ("_p_librdf_query_results")
name	variable name ("character")

Value

_p_librdf_node_s

References

https://librdf.org/docs/

See Also

This R function is a wrapper function that directly calls the the Redland RDF C libraries. For more information about Redland RDF, view the online documentation indicated in the 'References' section.

librdf_query_results_get_boolean
Get boolean query result.

Description

Get boolean query result.

Usage

```
librdf_query_results_get_boolean ( query_results,
.copy )
```

Arguments

query_results	librdf_query_results query_results ("_p_librdf_query_results")
.copy	NA

Value

integer

References

https://librdf.org/docs/

See Also

This R function is a wrapper function that directly calls the the Redland RDF C libraries. For more information about Redland RDF, view the online documentation indicated in the 'References' section.

---

librdf_query_results_get_count

Get number of bindings so far.

Description

Get number of bindings so far.

Usage

```
librdf_query_results_get_count ( query_results,
.copy )
```

Arguments

query_results	librdf_query_results query results ("_p_librdf_query_results")
.copy	NA

Value

integer

References

https://librdf.org/docs/

See Also

This R function is a wrapper function that directly calls the the Redland RDF C libraries. For more information about Redland RDF, view the online documentation indicated in the 'References' section.

librdf_query_results_is_bindings *Test if librdf_query_results is variable bindings format.*

Description

Test if librdf_query_results is variable bindings format.

Usage

```
librdf_query_results_is_bindings ( query_results,
.copy )
```

Arguments

query_results	librdf_query_results object ("_p_librdf_query_results")
.copy	NA

Value

integer

References

https://librdf.org/docs/

See Also

This R function is a wrapper function that directly calls the the Redland RDF C libraries. For more information about Redland RDF, view the online documentation indicated in the 'References' section.

librdf_query_results_is_boolean *Test if librdf_query_results is boolean format.*

Description

Test if librdf_query_results is boolean format.

Usage

```
librdf_query_results_is_boolean ( query_results,
.copy )
```

Arguments

query_results	librdf_query_results object ("_p_librdf_query_results")
.copy	NA

Value

integer

References

https://librdf.org/docs/

See Also

This R function is a wrapper function that directly calls the the Redland RDF C libraries. For more information about Redland RDF, view the online documentation indicated in the 'References' section.

---

librdf_query_results_is_graph

Test if librdf_query_results is RDF graph format.

Description

Test if librdf_query_results is RDF graph format.

Usage

```
librdf_query_results_is_graph ( query_results,
.copy )
```

Arguments

query_results	librdf_query_results object ("_p_librdf_query_results")
.copy	NA

Value

integer

References

https://librdf.org/docs/

See Also

This R function is a wrapper function that directly calls the the Redland RDF C libraries. For more information about Redland RDF, view the online documentation indicated in the 'References' section.

librdf_query_results_is_syntax *Test if librdf_query_results is a syntax.*

Description

Test if librdf_query_results is a syntax.

Usage

```
librdf_query_results_is_syntax ( query_results,
.copy )
```

Arguments

query_results	librdf_query_results object ("_p_librdf_query_results")
.copy	NA

Value

integer

References

https://librdf.org/docs/

See Also

This R function is a wrapper function that directly calls the the Redland RDF C libraries. For more information about Redland RDF, view the online documentation indicated in the 'References' section.

librdf_query_results_next *Move to the next result.*

Description

Move to the next result.

Usage

```
librdf_query_results_next ( query_results,
.copy )
```

Arguments

query_results	librdf_query_results query results ("_p_librdf_query_results")
.copy	NA

Value

integer

References

https://librdf.org/docs/

See Also

This R function is a wrapper function that directly calls the the Redland RDF C libraries. For more information about Redland RDF, view the online documentation indicated in the 'References' section.

---

librdf_query_results_to_file2

Write a query results to a file.

Description

Write a query results to a file.

Usage

```
librdf_query_results_to_file2 ( query_results,
name,
mime_type,
format_uri,
base_uri,
.copy )
```

Arguments

query_results	librdf_query_results object ("_p_librdf_query_results")
name	filename to write to ("character")
mime_type	mime type (or NULL) ("character")
format_uri	URI of syntax to format to (or NULL) ("_p_librdf_uri_s")
base_uri	Base URI of output formatted syntax (or NULL) ("_p_librdf_uri_s")
.copy	NA

Value

integer

References

https://librdf.org/docs/

See Also

This R function is a wrapper function that directly calls the the Redland RDF C libraries. For more information about Redland RDF, view the online documentation indicated in the 'References' section.

---

librdf_query_results_to_string2
Turn a query results into a string.

Description

Turn a query results into a string.

Usage

```
librdf_query_results_to_string2 ( query_results,
name,
mime_type,
format_uri,
base_uri )
```

Arguments

query_results	librdf_query_results object ("_p_librdf_query_results")
name	format name ("character")
mime_type	format mime type (or NULL) ("character")
format_uri	URI of syntax to format to (or NULL) ("_p_librdf_uri_s")
base_uri	Base URI of output formatted syntax (or NULL) ("_p_librdf_uri_s")

Value

character

References

https://librdf.org/docs/

See Also

This R function is a wrapper function that directly calls the the Redland RDF C libraries. For more information about Redland RDF, view the online documentation indicated in the 'References' section.

`librdf_query_set_limit`

Set the query-specified limit on results.

Description

Set the query-specified limit on results.

Usage

```
librdf_query_set_limit ( query,
limit,
.copy )
```

Arguments

`query`	librdf_query query object ("_p_librdf_query")
`limit`	the limit on results, >=0 to set a limit, <0 to have no limit ("integer")
`.copy`	NA

Value

integer

References

https://librdf.org/docs/

See Also

This R function is a wrapper function that directly calls the the Redland RDF C libraries. For more information about Redland RDF, view the online documentation indicated in the 'References' section.

librdf_query_set_offset

Set the query-specified offset on results.

Description

Set the query-specified offset on results.

Usage

```
librdf_query_set_offset ( query,
offset,
.copy )
```

Arguments

query	librdf_query query object ("_p_librdf_query")
offset	offset for results, >=0 to set an offset, <0 to have no offset ("integer")
.copy	NA

Value

integer

References

https://librdf.org/docs/

See Also

This R function is a wrapper function that directly calls the the Redland RDF C libraries. For more information about Redland RDF, view the online documentation indicated in the 'References' section.

librdf_serializer_check_name

Check if a serializer name is known

Description

Check if a serializer name is known

Usage

```
librdf_serializer_check_name ( world,
name,
.copy )
```

Arguments

world	redland world object ("_p_librdf_world_s")
name	name of serializer ("character")
.copy	NA

Value

integer

References

https://librdf.org/docs/

See Also

This R function is a wrapper function that directly calls the the Redland RDF C libraries. For more information about Redland RDF, view the online documentation indicated in the 'References' section.

---

librdf_serializer_get_feature

Get the value of a serializer feature.

Description

Get the value of a serializer feature.

Usage

```
librdf_serializer_get_feature ( serializer,
feature )
```

Arguments

serializer	serializer object ("_p_librdf_serializer_s")
feature	URI of feature ("_p_librdf_uri_s")

Value

_p_librdf_node_s

References

https://librdf.org/docs/

See Also

This R function is a wrapper function that directly calls the the Redland RDF C libraries. For more information about Redland RDF, view the online documentation indicated in the 'References' section.

---

librdf_serializer_serialize_model_to_file

Write a serialized librdf_model to a file.

Description

Write a serialized librdf_model to a file.

Usage

```
librdf_serializer_serialize_model_to_file ( serializer,
name,
inUriOrNull,
model,
.copy )
```

Arguments

serializer	the serializer ("_p_librdf_serializer_s")
name	filename to serialize to ("character")
inUriOrNull	the base URI to use (or NULL) ("_p_librdf_uri_s")
model	the librdf_model model to use ("_p_librdf_model_s")
.copy	NA

Value

integer

References

https://librdf.org/docs/

See Also

This R function is a wrapper function that directly calls the the Redland RDF C libraries. For more information about Redland RDF, view the online documentation indicated in the 'References' section.

librdf_serializer_serialize_model_to_string
Write a serialized librdf_model to a string. The returned string must be freed by the caller using librdf_free_memory().

Description

Write a serialized librdf_model to a string. The returned string must be freed by the caller using librdf_free_memory().

Usage

```
librdf_serializer_serialize_model_to_string ( serializer,
inUriOrNull,
model )
```

Arguments

serializer	the serializer ("_p_librdf_serializer_s")
inUriOrNull	the base URI to use (or NULL) ("_p_librdf_uri_s")
model	the librdf_model model to use ("_p_librdf_model_s")

Value

character

References

https://librdf.org/docs/

See Also

This R function is a wrapper function that directly calls the the Redland RDF C libraries. For more information about Redland RDF, view the online documentation indicated in the 'References' section.

librdf_serializer_serialize_stream_to_file
Write a librdf_stream to a file.

Description

Write a librdf_stream to a file.

Usage

```
librdf_serializer_serialize_stream_to_file ( serializer,
name,
base_uri,
stream,
.copy )
```

Arguments

serializer	the serializer ("_p_librdf_serializer_s")
name	filename to serialize to ("character")
base_uri	the base URI to use (or NULL) ("_p_librdf_uri_s")
stream	the librdf_stream stream to use ("_p_librdf_stream_s")
.copy	NA

Value

integer

References

https://librdf.org/docs/

See Also

This R function is a wrapper function that directly calls the the Redland RDF C libraries. For more information about Redland RDF, view the online documentation indicated in the 'References' section.

---

librdf_serializer_serialize_stream_to_string

Write a librdf_stream to a string.

Description

Write a librdf_stream to a string.

Usage

```
librdf_serializer_serialize_stream_to_string ( serializer,
base_uri,
stream )
```

Arguments

serializer	the serializer ("_p_librdf_serializer_s")
base_uri	the base URI to use (or NULL) ("_p_librdf_uri_s")
stream	the librdf_stream stream to use ("_p_librdf_stream_s")

Value

character

References

https://librdf.org/docs/

See Also

This R function is a wrapper function that directly calls the the Redland RDF C libraries. For more information about Redland RDF, view the online documentation indicated in the 'References' section.

---

librdf_serializer_set_feature

Set the value of a serializer feature.

Description

Set the value of a serializer feature.

Usage

```
librdf_serializer_set_feature ( serializer,
feature,
value,
.copy )
```

Arguments

serializer	serializer object ("_p_librdf_serializer_s")
feature	URI of feature ("_p_librdf_uri_s")
value	value to set ("_p_librdf_node_s")
.copy	NA

Value

integer

References

https://librdf.org/docs/

See Also

This R function is a wrapper function that directly calls the the Redland RDF C libraries. For more information about Redland RDF, view the online documentation indicated in the 'References' section.

`librdf_serializer_set_namespace`
Set a namespace URI/prefix mapping.

Description

Set a namespace URI/prefix mapping.

Usage

```
librdf_serializer_set_namespace ( serializer,
nspace,
prefix,
.copy )
```

Arguments

`serializer`	serializer object ("_p_librdf_serializer_s")
`nspace`	URI of namespace or NULL ("_p_librdf_uri_s")
`prefix`	prefix to use or NULL ("character")
`.copy`	NA

Value

integer

References

https://librdf.org/docs/

See Also

This R function is a wrapper function that directly calls the the Redland RDF C libraries. For more information about Redland RDF, view the online documentation indicated in the 'References' section.

librdf_short_copyright_string
Short copyright string (one line).

Description

Short copyright string (one line).

Usage

```
librdf_short_copyright_string ( .copy )
```

Arguments

.copy	NA

Value

character

References

https://librdf.org/docs/

See Also

This R function is a wrapper function that directly calls the the Redland RDF C libraries. For more information about Redland RDF, view the online documentation indicated in the 'References' section.

librdf_short_copyright_string_get
Return Redland librdf copyright string

Description

Return Redland librdf copyright string

Usage

```
librdf_short_copyright_string_get( .copy )
```

Arguments

.copy	logical

Value

character

References

https://librdf.org/docs/

See Also

This R function is a wrapper function that directly calls the the Redland RDF C libraries. For more information about Redland RDF, view the online documentation indicated in the 'References' section.

`librdf_statement_equals`

Check if two statements are equal.

Description

Check if two statements are equal.

Usage

```
librdf_statement_equals ( statement1,
statement2,
.copy )
```

Arguments

`statement1`	first librdf_statement ("_p_librdf_statement_s")
`statement2`	second librdf_statement ("_p_librdf_statement_s")
`.copy`	NA

Value

integer

References

https://librdf.org/docs/

See Also

This R function is a wrapper function that directly calls the the Redland RDF C libraries. For more information about Redland RDF, view the online documentation indicated in the 'References' section.

librdf_statement_get_object
Get the statement object.

Description

Get the statement object.

Usage

```
librdf_statement_get_object ( statement )
```

Arguments

statement	librdf_statement object ("_p_librdf_statement_s")

Value

_p_librdf_node_s

References

https://librdf.org/docs/

See Also

This R function is a wrapper function that directly calls the the Redland RDF C libraries. For more information about Redland RDF, view the online documentation indicated in the 'References' section.

librdf_statement_get_predicate
Get the statement predicate.

Description

Get the statement predicate.

Usage

```
librdf_statement_get_predicate ( statement )
```

Arguments

statement	librdf_statement object ("_p_librdf_statement_s")

Value

_p_librdf_node_s

References

https://librdf.org/docs/

See Also

This R function is a wrapper function that directly calls the the Redland RDF C libraries. For more information about Redland RDF, view the online documentation indicated in the 'References' section.

`librdf_statement_get_subject`
Get the statement subject.

Description

Get the statement subject.

Usage

```
librdf_statement_get_subject ( statement )
```

Arguments

`statement`	librdf_statement object ("_p_librdf_statement_s")

Value

_p_librdf_node_s

References

https://librdf.org/docs/

See Also

This R function is a wrapper function that directly calls the the Redland RDF C libraries. For more information about Redland RDF, view the online documentation indicated in the 'References' section.

librdf_statement_is_complete *Check if statement is a complete and legal RDF triple.*

Description

Check if statement is a complete and legal RDF triple.

Usage

```
librdf_statement_is_complete ( statement,
.copy )
```

Arguments

statement	librdf_statement object ("_p_librdf_statement_s")
.copy	NA

Value

integer

References

https://librdf.org/docs/

See Also

This R function is a wrapper function that directly calls the the Redland RDF C libraries. For more information about Redland RDF, view the online documentation indicated in the 'References' section.

librdf_statement_match *Match a statement against a 'partial' statement.*

Description

Match a statement against a 'partial' statement.

Usage

```
librdf_statement_match ( statement,
partial_statement,
.copy )
```

Arguments

`statement`	statement ("_p_librdf_statement_s")
`partial_statement`	statement with possible empty parts ("_p_librdf_statement_s")
`.copy`	NA

Value

integer

References

https://librdf.org/docs/

See Also

This R function is a wrapper function that directly calls the the Redland RDF C libraries. For more information about Redland RDF, view the online documentation indicated in the 'References' section.

`librdf_statement_set_object` *Set the statement object.*

Description

Set the statement object.

Usage

```
librdf_statement_set_object ( statement,
object )
```

Arguments

`statement`	librdf_statement object ("_p_librdf_statement_s")
`object`	librdf_node of object ("_p_librdf_node_s")

Value

void

References

https://librdf.org/docs/

See Also

This R function is a wrapper function that directly calls the the Redland RDF C libraries. For more information about Redland RDF, view the online documentation indicated in the 'References' section.

`librdf_statement_set_predicate`
Set the statement predicate.

Description

Set the statement predicate.

Usage

```
librdf_statement_set_predicate ( statement,
predicate )
```

Arguments

`statement`	librdf_statement object ("_p_librdf_statement_s")
`predicate`	librdf_node of predicate ("_p_librdf_node_s")

Value

void

References

https://librdf.org/docs/

See Also

This R function is a wrapper function that directly calls the the Redland RDF C libraries. For more information about Redland RDF, view the online documentation indicated in the 'References' section.

librdf_statement_set_subject *Set the statement subject.*

Description

Set the statement subject.

Usage

```
librdf_statement_set_subject ( statement,
subject )
```

Arguments

statement	librdf_statement object ("_p_librdf_statement_s")
subject	librdf_node of subject ("_p_librdf_node_s")

Value

void

References

https://librdf.org/docs/

See Also

This R function is a wrapper function that directly calls the the Redland RDF C libraries. For more information about Redland RDF, view the online documentation indicated in the 'References' section.

librdf_stream_end *Test if the stream has ended.*

Description

Test if the stream has ended.

Usage

```
librdf_stream_end ( stream,
.copy )
```

Arguments

stream	librdf_stream object ("_p_librdf_stream_s")
.copy	NA

Value

integer

References

https://librdf.org/docs/

See Also

This R function is a wrapper function that directly calls the the Redland RDF C libraries. For more information about Redland RDF, view the online documentation indicated in the 'References' section.

---

librdf_stream_get_object

Get the current librdf_statement in the stream.

Description

Get the current librdf_statement in the stream.

Usage

```
librdf_stream_get_object ( stream )
```

Arguments

stream	librdf_stream object ("_p_librdf_stream_s")

Value

_p_librdf_statement_s

References

https://librdf.org/docs/

See Also

This R function is a wrapper function that directly calls the the Redland RDF C libraries. For more information about Redland RDF, view the online documentation indicated in the 'References' section.

librdf_stream_next *Move to the next librdf_statement in the stream.*

Description

Move to the next librdf_statement in the stream.

Usage

```
librdf_stream_next ( stream,
.copy )
```

Arguments

stream	librdf_stream object ("_p_librdf_stream_s")
.copy	NA

Value

integer

References

https://librdf.org/docs/

See Also

This R function is a wrapper function that directly calls the the Redland RDF C libraries. For more information about Redland RDF, view the online documentation indicated in the 'References' section.

librdf_uri_compare *Compare two librdf_uri objects lexicographically.*

Description

Compare two librdf_uri objects lexicographically.

Usage

```
librdf_uri_compare ( first_uri,
second_uri,
.copy )
```

Arguments

first_uri	librdf_uri object 1 or NULL ("_p_librdf_uri_s")
second_uri	librdf_uri object 2 or NULL ("_p_librdf_uri_s")
.copy	NA

Value

integer

References

https://librdf.org/docs/

See Also

This R function is a wrapper function that directly calls the the Redland RDF C libraries. For more information about Redland RDF, view the online documentation indicated in the 'References' section.

---

librdf_uri_equals *Compare two librdf_uri objects for equality.*

Description

Compare two librdf_uri objects for equality.

Usage

```
librdf_uri_equals ( first_uri,
second_uri,
.copy )
```

Arguments

first_uri	librdf_uri object 1 ("_p_librdf_uri_s")
second_uri	librdf_uri object 2 ("_p_librdf_uri_s")
.copy	NA

Value

integer

References

https://librdf.org/docs/

See Also

This R function is a wrapper function that directly calls the the Redland RDF C libraries. For more information about Redland RDF, view the online documentation indicated in the 'References' section.

`librdf_uri_to_string` *Format the URI as a string.*

Description

Format the URI as a string.

Usage

```
librdf_uri_to_string ( uri )
```

Arguments

`uri`	librdf_uri object ("_p_librdf_uri_s")

Value

character

References

https://librdf.org/docs/

See Also

This R function is a wrapper function that directly calls the the Redland RDF C libraries. For more information about Redland RDF, view the online documentation indicated in the 'References' section.

`librdf_version_decimal`
Library full version as a decimal integer.

Description

Library full version as a decimal integer.

Usage

```
librdf_version_decimal ( .copy )
```

Arguments

.copy	NA

Value

integer

References

https://librdf.org/docs/

See Also

This R function is a wrapper function that directly calls the the Redland RDF C libraries. For more information about Redland RDF, view the online documentation indicated in the 'References' section.

---

librdf_version_decimal_get

Return Redland librdf copyright

Description

Return Redland librdf copyright

Usage

```
librdf_version_decimal_get ( .copy )
```

Arguments

.copy	logical

Value

integer

References

https://librdf.org/docs/

See Also

This R function is a wrapper function that directly calls the the Redland RDF C libraries. For more information about Redland RDF, view the online documentation indicated in the 'References' section.

librdf_version_major *Library major version number as a decimal integer.*

Description

Library major version number as a decimal integer.

Usage

```
librdf_version_major ( .copy )
```

Arguments

.copy	NA

Value

integer

References

https://librdf.org/docs/

See Also

This R function is a wrapper function that directly calls the the Redland RDF C libraries. For more information about Redland RDF, view the online documentation indicated in the 'References' section.

librdf_version_major_get
Return the Redland librdf major version number

Description

Return the Redland librdf major version number

Usage

```
librdf_version_major_get ( .copy )
```

Arguments

.copy	logical

Value

integer

References

https://librdf.org/docs/

See Also

This R function is a wrapper function that directly calls the the Redland RDF C libraries. For more information about Redland RDF, view the online documentation indicated in the 'References' section.

---

librdf_version_minor *Library minor version number as a decimal integer.*

Description

Library minor version number as a decimal integer.

Usage

```
librdf_version_minor ( .copy )
```

Arguments

.copy	NA

Value

integer

References

https://librdf.org/docs/

See Also

This R function is a wrapper function that directly calls the the Redland RDF C libraries. For more information about Redland RDF, view the online documentation indicated in the 'References' section.

librdf_version_minor_get

Return the Redland librdf minor version number

Description

Return the Redland librdf minor version number

Usage

```
librdf_version_minor_get ( .copy )
```

Arguments

.copy	logical

Value

integer

References

https://librdf.org/docs/

See Also

This R function is a wrapper function that directly calls the the Redland RDF C libraries. For more information about Redland RDF, view the online documentation indicated in the 'References' section.

librdf_version_release

Library release version number as a decimal integer.

Description

Library release version number as a decimal integer.

Usage

```
librdf_version_release ( .copy )
```

Arguments

.copy	NA

Value

integer

References

https://librdf.org/docs/

See Also

This R function is a wrapper function that directly calls the the Redland RDF C libraries. For more information about Redland RDF, view the online documentation indicated in the 'References' section.

`librdf_version_release_get`
Return the Redland librdf release version number

Description

Return the Redland librdf release version number

Usage

```
librdf_version_release_get ( .copy )
```

Arguments

`.copy`	logical

Value

integer

References

https://librdf.org/docs/

See Also

This R function is a wrapper function that directly calls the the Redland RDF C libraries. For more information about Redland RDF, view the online documentation indicated in the 'References' section.

librdf_version_string *Library full version as a string.*

Description

Library full version as a string.

Usage

```
librdf_version_string ( .copy )
```

Arguments

.copy	NA

Value

character

References

https://librdf.org/docs/

See Also

This R function is a wrapper function that directly calls the the Redland RDF C libraries. For more information about Redland RDF, view the online documentation indicated in the 'References' section.

librdf_version_string_get
Return the Redland librdf version as a string.

Description

Return the Redland librdf version as a string.

Usage

```
librdf_version_string_get ( .copy )
```

Arguments

.copy	logical

Value

character

References

https://librdf.org/docs/

See Also

This R function is a wrapper function that directly calls the the Redland RDF C libraries. For more information about Redland RDF, view the online documentation indicated in the 'References' section.

`librdf_world_get_feature`

Get the value of a world feature.

Description

Get the value of a world feature.

Usage

```
librdf_world_get_feature ( world,
feature )
```

Arguments

`world`	librdf_world object ("_p_librdf_world_s")
`feature`	librdf_uri feature property ("_p_librdf_uri_s")

Value

_p_librdf_node_s

References

https://librdf.org/docs/

See Also

This R function is a wrapper function that directly calls the the Redland RDF C libraries. For more information about Redland RDF, view the online documentation indicated in the 'References' section.

librdf_world_open *Open a created redland world environment.*

Description

Open a created redland world environment.

Usage

```
librdf_world_open ( world )
```

Arguments

world	redland world object ("_p_librdf_world_s")

Value

void

References

https://librdf.org/docs/

See Also

This R function is a wrapper function that directly calls the the Redland RDF C libraries. For more information about Redland RDF, view the online documentation indicated in the 'References' section.

librdf_world_set_feature *Set the value of a world feature.*

Description

Set the value of a world feature.

Usage

```
librdf_world_set_feature ( world,
feature,
value,
.copy )
```

Arguments

world	librdf_world object ("_p_librdf_world_s")
feature	librdf_uri feature property ("_p_librdf_uri_s")
value	librdf_node feature property value ("_p_librdf_node_s")
.copy	NA

Value

integer

References

https://librdf.org/docs/

See Also

This R function is a wrapper function that directly calls the the Redland RDF C libraries. For more information about Redland RDF, view the online documentation indicated in the 'References' section.

---

librdf_world_set_logger

Set the world log handling function.

Description

Set the world log handling function.

Usage

```
librdf_world_set_logger ( world,
user_data,
log_handler )
```

Arguments

world	redland world object ("_p_librdf_world_s")
user_data	user data to pass to function ("_p_void")
log_handler	pointer to the function ("_p_librdf_log_func")

Value

void

References

https://librdf.org/docs/

See Also

This R function is a wrapper function that directly calls the the Redland RDF C libraries. For more information about Redland RDF, view the online documentation indicated in the 'References' section.

`mergeNamespace_roclet` *A custom Roxygen roclet that adds Redland RDF functions to NAMESPACE file generated by Roxygen.*

Description

The redland package uses the SWIG (Simplified Wrapper and Interface Generator) to create the bindings between the Redland RDF C/C++ libraries and R. SWIG creates a NAMESPACE file that contains the function names for the librdf wrapper that it creates, but as of swig 3.0.2 this NAMESPACE file is incorrect and will also be overwritten by Roxygen when 'roxygenize()' or 'devtools:document()' is called, as the wrapper R code doesn't contain Roxygen export annotations used by Roxygen to build the namespace file. To allow for building a NAMESPACE file from all programs in the redland package, this roclet determines the set of wrapper R functions and adds these to the Roxygen generated NAMESPACE file that contains all names from the native R code in the redland package.

Usage

```
mergeNamespace_roclet(x, ...)
```

Arguments

`x`	a roclet
`...`	additional parameters

Details

The following line must be present in the DESCRIPTION file for this roclet to be called automatically when 'roxygen2::roxygenize()' or 'devtools::document()' is called:

Roxygen: list(roclets = c("collate", "rd", "namespace", "mergeNamespace_roclet"))

The 'namespace' roclet must always run before the 'mergeNamespace' roclet.

Examples

```
## Not run:
roxygen2::roxygenize()
devtools::document()

## End(Not run)
```

Model-class *A Redland Model object*

Description

A Model object is used to store the statements (triples) of an RDF model.

Details

A Model may be created manually by creating `Statement` and adding them to the Model using `addStatement`, or a Model may be read in from a previously saved file using `parseFileIntoModel`. Once a Model is created, it can be queried using `Query`.

Slots

`librdf_model` A redland model object

Methods

- `Model-initialize`: Initialize a Model object
- `addStatement`: Add a Statement object to the Model
- `freeModel`: Free memory used by a librdf model object

See Also

View examples of creating models by viewing the `'redland_overview'` vignette: `'vignette("redland_overview")'`

`redland`: redland package

Examples

```
world <- new("World")
storage <- new("Storage", world, "hashes", name="", options="hash-type='memory'")
model <- new("Model", world, storage, options="")
```

Node-class *A Redland Node, used to store one node in an RDF triple statement.*

Description

A Node represents a RDF Resource, Property, Literal or an RDF blank Node.

Slots

`librdf_node` A redland node object

Methods

- Node-initialize: Initialize a Node object.
- getNodeType: Determine the node type and return as a string.
- getNodeValue: Determine the node type and return as a string.
- getBlankNodeId: Get the value of the node as a string.

See Also

redland: redland package

Examples

```
world <- new("World")
# a blank node is created with a unique identifier generated by librdf
node <- new("Node", world)
# a blank node is created with a unique identifier generated by librdf
node <- new("Node", world, blank=NULL)
# a blank node is created with the user specified identifier, i.e. "_:id1"
node <- new("Node", world, blank="someid")
# a node type of 'literal' is created
node <- new("Node", world, literal="A Node Value")
# a Node type of 'resource' is created
node <- new("Node", world, uri="http://www.example.com")
# Create a literal node, specifying a language encoding
node <- new("Node", world, literal="Gérard de La Martinière", language="fr")
```

---

parseFileIntoModel *Parse the contents of a file into a model*

Description

The contents of a the specified file are read and parsed into the initialized Parser object

Usage

```
parseFileIntoModel(.Object, world, filePath, model, ...)

## S4 method for signature 'Parser,World,character,Model'
parseFileIntoModel(.Object, world, filePath, model, baseUri = as.character(NA))
```

Arguments

.Object	a Parser object
world	a World object
filePath	a file that contains the RDF content
model	a Model object to parse the RDF content into
...	(Additional parameters)
baseUri	a base URI (i.e. XML base) to apply to the model

Details

The parser factory name specified during initialization determines how the content is parsed, for example, if 'rdfxml' was specified during parser initialization, then the parser expects RDF/XML content as specified in the W3C recommendation (http://www.we3.org/TR/REC-rdf-syntax)

Examples

```
world <- new("World")
storage <- new("Storage", world, "hashes", name="", options="hash-type='memory'")
model <- new("Model", world, storage, options="")
# Create the default "rdfxml" parser
parser <- new("Parser", world)
filePath <- system.file("extdata/example.rdf", package="redland")
parseFileIntoModel(parser, world, filePath, model)
```

Parser-class *An RDF Parser object*

Description

The Parser class provides methods to parse RDF content into a Redland RDF model.

Slots

`librdf_parser` A redland parser object

Methods

- `Parser-initialize`: Initialize a Parser object.
- `parseFileIntoModel`: Parse the contents of a file into a model.
- `freeParser`: Free memory used by a librdf parser.

See Also

`redland`: redland package

Examples

```
world <- new("World")
storage <- new("Storage", world, "hashes", name="", options="hash-type='memory'")
model <- new("Model", world, storage, options="")
# Create the default "rdfxml" parser
parser <- new("Parser", world)
filePath <- system.file("extdata/example.rdf", package="redland")
parseFileIntoModel(parser, world, filePath, model)
```

Query-class *Query an RDF model*

Description

The Query class is used to execute a query on a Model object using the default query language SPARQL. For more information, please refer to https://librdf.org/rasqal/ for details on supported query languages.

Details

A Query is executed using the executeQuery method, which returns a QueryResults object that can be iterated over the query solution sequence.

Slots

`librdf_query` A redland query object

`librdf_world` A redland world object

Methods

- `Query-initialize`: Initialize a Query object.
- `executeQuery`: Execute a query.
- `setQueryResultLimit`: Set limit on returned query results.
- `getQueryResultLimit`: Get the query result limit.
- `getResults`: Return all query results.
- `writeResults`: Write query results to a file.
- `freeParser`: Free memory used by a librdf query.

References

www.example.com

See Also

`redland`: redland package

Examples

```
world <- new("World")
storage <- new("Storage", world, "hashes", name="", options="hash-type='memory'")
model <- new("Model", world, storage, options="")
stmt <- new("Statement", world=world,
 subject="https://cn.dataone.org/cn/v1/resolve/urn:uuid:274a0c5c-3082-4562-bbd3-2b1288768cac",
  predicate="http://www.w3.org/ns/prov#hadPlan",
 object="https://cn.dataone.org/cn/v1/resolve/urn:uuid:01305f45-f22b-40c8-8d27-00357d01e4a5")
```

```
status <- addStatement(model, stmt)
stmt <- new("Statement", world=world,
           subject="https://orcid.org/0000-0002-2192-403X",
           predicate="http://www.w3.org/ns/prov#Agent",
           object="slaughter",
           objectType="literal",
           datatype_uri="http://www.w3.org/2001/XMLSchema#string")
status <- addStatement(model, stmt)
queryString <-
    paste("PREFIX orcid: <https://orcid.org/>",
          "PREFIX dataone: <https://cn.dataone.org/cn/v1/resolve/>",
          "PREFIX prov: <http://www.w3.org/ns/prov#>",
          "SELECT ?a ?c WHERE { ?a prov:Agent ?c . }", sep=" ")
query <- new("Query", world, queryString, base_uri=NULL, query_language="sparql", query_uri=NULL)
# Return all results as a string
results <- getResults(query, model, "rdfxml")
```

`QueryResults-class` *A Redland QueryResults object is used to inspect query results from a Query object.*

Description

The QueryResults object contains the RDF statements that were returned from a query on an RDF model.

Slots

`librdf_query_results` A redland query object

Methods

- `QueryResults-initialize`: Initialize a QueryResults object.
- `freeQueryResults`: Free memory used by a librdf query result.

See Also

`redland`: redland package

raptor_locator_byte *Get the locator byte offset from locator.*

Description

Get the locator byte offset from locator

Usage

```
raptor_locator_byte ( locator, .copy )
```

Arguments

locator	raptor locator ("_p_raptor_locator")
.copy	logical

Value

character

References

https://librdf.org/docs/

See Also

This R function is a wrapper function that directly calls the the Redland RDF C libraries. For more information about Redland RDF, view the online documentation indicated in the 'References' section.

raptor_locator_column *Get column number from locator*

Description

Get column number from locator

Usage

```
raptor_locator_column ( locator,
.copy )
```

Arguments

locator	raptor locator ("_p_raptor_locator")
.copy	logical

Value

integer

References

https://librdf.org/docs/

See Also

This R function is a wrapper function that directly calls the the Redland RDF C libraries. For more information about Redland RDF, view the online documentation indicated in the 'References' section.

---

raptor_locator_file *Get file name from locator.*

Description

Get file name from locator.

Usage

```
raptor_locator_file ( locator )
```

Arguments

locator	raptor locator ("_p_raptor_locator")

Value

character

References

https://librdf.org/docs/

See Also

This R function is a wrapper function that directly calls the the Redland RDF C libraries. For more information about Redland RDF, view the online documentation indicated in the 'References' section.

raptor_locator_line *Get line number from locator.*

Description

Get line number from locator.

Usage

```
raptor_locator_line ( locator, .copy )
```

Arguments

locator	raptor locator ("_p_raptor_locator")
.copy	logical

Value

integer

References

https://librdf.org/docs/

See Also

This R function is a wrapper function that directly calls the the Redland RDF C libraries. For more information about Redland RDF, view the online documentation indicated in the 'References' section.

raptor_locator_uri *Get URI from locator.*

Description

Get URI from locator.

Usage

```
raptor_locator_uri ( locator )
```

Arguments

locator	raptor locator ("_p_raptor_locator")

Value

character

References

https://librdf.org/docs/

See Also

This R function is a wrapper function that directly calls the the Redland RDF C libraries. For more information about Redland RDF, view the online documentation indicated in the 'References' section.

`raptor_version_decimal`

Raptor version as a decimal number

Description

Raptor version as a decimal number

Usage

```
raptor_version_decimal ( .copy )
```

Arguments

`.copy`	logical

Value

integer

References

https://librdf.org/docs/

See Also

This R function is a wrapper function that directly calls the the Redland RDF C libraries. For more information about Redland RDF, view the online documentation indicated in the 'References' section.

raptor_version_decimal_get *Raptor version as a decimal number.*

Description

Raptor version as a decimal number.

Usage

```
raptor_version_decimal_get ( .copy )
```

Arguments

.copy	logical

Value

integer

References

https://librdf.org/docs/

See Also

This R function is a wrapper function that directly calls the the Redland RDF C libraries. For more information about Redland RDF, view the online documentation indicated in the 'References' section.

raptor_version_major *Raptor library major version*

Description

Raptor library major version.

Usage

```
raptor_version_major ( .copy )
```

Arguments

.copy	logical

Value

integer

References

https://librdf.org/docs/

See Also

This R function is a wrapper function that directly calls the the Redland RDF C libraries. For more information about Redland RDF, view the online documentation indicated in the 'References' section.

`raptor_version_major_get`
Get Raptor library major version

Description

Get Raptor library major version.

Usage

```
raptor_version_major_get ( .copy )
```

Arguments

`.copy`	logical

Value

integer

References

https://librdf.org/docs/

See Also

This R function is a wrapper function that directly calls the the Redland RDF C libraries. For more information about Redland RDF, view the online documentation indicated in the 'References' section.

raptor_version_minor *Raptor library minor version.*

Description

Raptor library minor version.

Usage

```
raptor_version_minor ( .copy )
```

Arguments

.copy	logical

Value

integer

References

https://librdf.org/docs/

See Also

This R function is a wrapper function that directly calls the the Redland RDF C libraries. For more information about Redland RDF, view the online documentation indicated in the 'References' section.

raptor_version_minor_get
Get Raptor library minor version.

Description

Get Raptor library minor version.

Usage

```
raptor_version_minor_get ( .copy )
```

Arguments

.copy	logical

Value

integer

References

https://librdf.org/docs/

See Also

This R function is a wrapper function that directly calls the the Redland RDF C libraries. For more information about Redland RDF, view the online documentation indicated in the 'References' section.

`raptor_version_release` *Raptor library release.*

Description

Raptor library release.

Usage

```
raptor_version_release ( .copy )
```

Arguments

`.copy`	logical

Value

integer

References

https://librdf.org/docs/

See Also

This R function is a wrapper function that directly calls the the Redland RDF C libraries. For more information about Redland RDF, view the online documentation indicated in the 'References' section.

raptor_version_release_get *Raptor library release.*

Description

Get Raptor library release.

Usage

```
raptor_version_release_get ( .copy )
```

Arguments

.copy	logical

Value

integer

References

https://librdf.org/docs/

See Also

This R function is a wrapper function that directly calls the the Redland RDF C libraries. For more information about Redland RDF, view the online documentation indicated in the 'References' section.

raptor_version_string *Raptor library version string.*

Description

Raptor library version string.

Usage

```
raptor_version_string ( .copy )
```

Arguments

.copy	logical

Value

character

References

https://librdf.org/docs/

See Also

This R function is a wrapper function that directly calls the the Redland RDF C libraries. For more information about Redland RDF, view the online documentation indicated in the 'References' section.

`raptor_version_string_get`
Get Raptor library version string.

Description

Get Raptor library version string.

Usage

```
raptor_version_string_get ( .copy )
```

Arguments

`.copy`	logical

Value

character

References

https://librdf.org/docs/

See Also

This R function is a wrapper function that directly calls the the Redland RDF C libraries. For more information about Redland RDF, view the online documentation indicated in the 'References' section.

`rasqal_version_decimal`

Rasqal version as a decimal number.

Description

Rasqal version as a decimal number.

Usage

```
rasqal_version_decimal ( .copy )
```

Arguments

`.copy`	logical

Value

integer

References

https://librdf.org/docs/

See Also

This R function is a wrapper function that directly calls the the Redland RDF C libraries. For more information about Redland RDF, view the online documentation indicated in the 'References' section.

`rasqal_version_decimal_get`

Get the Rasqal version as a decimal number.

Description

Get the Rasqal version as a decimal number.

Usage

```
rasqal_version_decimal_get ( .copy )
```

Arguments

`.copy`	logical

Value

integer

References

https://librdf.org/docs/

See Also

This R function is a wrapper function that directly calls the the Redland RDF C libraries. For more information about Redland RDF, view the online documentation indicated in the 'References' section.

---

rasqal_version_major *Rasqal major version number.*

Description

Rasqal major version number.

Usage

```
rasqal_version_major ( .copy )
```

Arguments

.copy	logical

Value

integer

References

https://librdf.org/docs/

See Also

This R function is a wrapper function that directly calls the the Redland RDF C libraries. For more information about Redland RDF, view the online documentation indicated in the 'References' section.

rasqal_version_major_get *Get Rasqal major version number.*

Description

Get Rasqal major version number.

Usage

```
rasqal_version_major_get ( .copy )
```

Arguments

.copy	logical

Value

integer

References

https://librdf.org/docs/

See Also

This R function is a wrapper function that directly calls the the Redland RDF C libraries. For more information about Redland RDF, view the online documentation indicated in the 'References' section.

rasqal_version_minor *Rasqal minor version number.*

Description

Rasqal minor version number.

Usage

```
rasqal_version_minor ( .copy )
```

Arguments

.copy	logical

Value

integer

References

https://librdf.org/docs/

See Also

This R function is a wrapper function that directly calls the the Redland RDF C libraries. For more information about Redland RDF, view the online documentation indicated in the 'References' section.

`rasqal_version_minor_get`
Get the Rasqal minor version number.

Description

Get the Rasqal minor version number.

Usage

```
rasqal_version_minor_get ( .copy )
```

Arguments

`.copy`	logical

Value

integer

References

https://librdf.org/docs/

See Also

This R function is a wrapper function that directly calls the the Redland RDF C libraries. For more information about Redland RDF, view the online documentation indicated in the 'References' section.

`rasqal_version_release`

Rasqal release version number.

Description

Rasqal release version number.

Usage

```
rasqal_version_release ( .copy )
```

Arguments

`.copy`	logical

Value

integer

References

https://librdf.org/docs/

See Also

This R function is a wrapper function that directly calls the the Redland RDF C libraries. For more information about Redland RDF, view the online documentation indicated in the 'References' section.

`rasqal_version_release_get`

Get the Rasqal release version number.

Description

Get the Rasqal release version number.

Usage

```
rasqal_version_release_get ( .copy )
```

Arguments

`.copy`	logical

Value

integer

References

https://librdf.org/docs/

See Also

This R function is a wrapper function that directly calls the the Redland RDF C libraries. For more information about Redland RDF, view the online documentation indicated in the 'References' section.

---

rasqal_version_string *Rasqal version as a string*

Description

Rasqal version as a string.

Usage

```
rasqal_version_string ( .copy )
```

Arguments

.copy	logical

Value

integer

References

https://librdf.org/docs/

See Also

This R function is a wrapper function that directly calls the the Redland RDF C libraries. For more information about Redland RDF, view the online documentation indicated in the 'References' section.

rasqal_version_string_get *Get the Rasqal version as a string*

Description

Get the Rasqal version as a string.

Usage

```
rasqal_version_string_get ( .copy )
```

Arguments

.copy	logical

Value

integer

References

https://librdf.org/docs/

See Also

This R function is a wrapper function that directly calls the the Redland RDF C libraries. For more information about Redland RDF, view the online documentation indicated in the 'References' section.

redland *Create, query and write RDF graphs.*

Description

The R package *redland* provides methods to create, query and write information stored in the Resource Description Framework (RDF). This package is implemented as R scripts that provide an R interface (aka "wrapper") to the Redland RDF C libraries. Documentation for the redland R package classes and functions are available from the standard R help facility, for example, 'help("Node-class")', '?getNodeType', etc.

An overview of the redland R package is available with the R command: 'vignette("redland_overview")'.

The Redland C library functions are described at https://librdf.org/docs/api/index.html.

An introduction to RDF can be found at https://www.w3.org/TR/rdf-primer/.

Details

The redland R package classes and the corresponding Redland C library types are shown in the following table:

Concept	Redland C type	redland R class	Purpose
Resource / Literal	librdf_node	Node	RDF Model & Syntax nodes
Statement / Triple	librdf_statement	Statement	RDF Model & Syntax arcs (statements, triples)
Model	librdf_model	Model	Set of Statements usually held in one Storage.
Node	librdf_node	Node	The subject, predicate or object of a Statement
Storage	librdf_storage	Storage	Storage for Models either persistent or in-memory.
Parser	librdf_parser	Parser	Syntax parsers delivering Stream of Statements or writing to a
Query	librdf_query	Query	Querying of an Model delivering a QueryResults
QueryResults	librdf_query_results	QueryResults	Results of applying an Query to a Model giving either variable
Serializer	librdf_serializer	Serializer	Serializes a Model into a syntax such as RDF/XML
World	librdf_world	World	RDF wrapper class handling Redland startup/shutdown

Note

In order to communicate with the Redland RDF C libraries, the redland R package uses an interface layer that is created with the software package *Simplified Wrapper and Interface Generator* (SWIG). The relationship between the redland R package and the Redland C libraries is:

User script -> redland R package -> SWIG R interface -> Redland C libraries -> RDF data

It is recommended that the redland package R classes be used to interact with RDF, as these higher level classes take care of many of the the details of communicating with the Redland C libraries. However, all of the lower level R interface functions generated by SWIG are made available by the redland package. These interface functions usually have names beginning with `'librdf_'`, `'rasqal_'` or `'raptor_'` and are usually the same name as the underlying C library function. Documentation for the R SWIG interface functions can be found via R help i.e. `'?librdf_iterator'`.

Author(s)

Matthew B. Jones (NCEAS) and Peter Slaughter (NCEAS)

Examples

```
# This example creates the necessary R objects to hold an RDF model and reads
# in a file that contains RDF/XML statements. This model is then queried for
# and the query results inspected.
world <- new("World")
storage <- new("Storage", world, "hashes", name="", options="hash-type='memory'")
model <- new("Model", world, storage, options="")
filePath <- system.file("extdata/example.rdf", package="redland")
parser <- new("Parser", world)
parseFileIntoModel(parser, world, filePath, model)
queryString <- paste("PREFIX dc: <http://purl.org/dc/elements/1.1/> ",
                     "SELECT ?a ?c WHERE { ?a dc:description ?c . }", sep="")
query <- new("Query", world, queryString, base_uri=NULL,
             query_language="sparql", query_uri=NULL)
```

```
results <- getResults(query, model, "rdfxml")

# When the query object is no longer needed, the resources it had allocated can be freed.
freeQuery(query)
rm(query)
```

`roclet_output.roclet_mergeNamespace`

Roxygen output function that merges a base NAMESPACE file with the Roxygen dynamically created NAMSPACE file

---

Description

The 'roclet_output' function handles output of the results from the 'roc_process' function. This function merges the NAMESPACE file created by the 'namespace' roclet with the list of Redland RDF functions determined by the 'roc_process' function.

Usage

```
## S3 method for class 'roclet_mergeNamespace'
roclet_output(x, results, base_path, ...)
```

Arguments

`x`	the currently running roclet
`results`	the list of items to process that was generated by the roc_process.mergedNamespace function
`base_path`	the base directory path of the package
`...`	additional parameters

`roclet_process.roclet_mergeNamespace`

Roxygen process function for the 'mergeNamespace' roclet

Description

This function is called by the Roxygen2 roxygenize function.

Usage

```
## S3 method for class 'roclet_mergeNamespace'
roclet_process(x, blocks, env, base_path, global_options = list())
```

Arguments

x	the currently running roclet
blocks	the documentation blocks
env	the current env
base_path	the top directory of the R package
global_options	unused by this roclet

Details

This function loads the Redland interface file and tests each loaded function to see if it should be exported via the NAMESPACE file.

Serializer-class *An RDF Serializer object.*

Description

The Serializer class provides methods to convert a Model object to other forms, for example, write out a Model to a file.

Slots

librdf_serializer A redland statement object

Methods

- Serializer-initialize: Initialize a Serializer object.
- setNameSpace: Set a namespace for the serializer.
- serializeToCharacter: Serialize a model to a character vector.
- serializeToFile: Serialize a model to a file.
- freeSerializer: Free memory used by a librdf serializer.

See Also

redland: redland package

Examples

```
world <- new("World")
storage <- new("Storage", world, "hashes", name="", options="hash-type='memory'")
model <- new("Model", world, storage, options="")
filePath <- system.file("extdata/example.rdf", package="redland")
parser <- new("Parser", world)
parseFileIntoModel(parser, world, filePath, model)
# Creat the default "rdfxml" serizlizer
```

```
serializer <- new("Serializer", world)
# Add a namespace definition to the serializer
status <- setNameSpace(serializer, world, namespace="http://purl.org/dc/elements/1.1/", prefix="dc")
rdf <- serializeToCharacter(serializer, world, model, baseUri="")
```

`serializeToCharacter` *Serialize a model to a character vector.*

Description

Serialize a model to a character vector.

Usage

```
serializeToCharacter(.Object, world, model, ...)

## S4 method for signature 'Serializer,World,Model'
serializeToCharacter(.Object, world, model, baseUri = as.character(NA))
```

Arguments

`.Object`	a Serializer object
`world`	a World object
`model`	a Model object
`...`	Additional parameters
`baseUri`	a URI to prepend to relative URIs in the document

Value

a character vector containing the serialized model

`serializeToFile` *Serialize a model to a file.*

Description

Serialize a model to a file.

Usage

```
serializeToFile(.Object, world, model, filePath, ...)

## S4 method for signature 'Serializer,World,Model,character'
serializeToFile(.Object, world, model, filePath, baseUri = as.character(NA))
```

Arguments

.Object	a Serializer object
world	a World object
model	a Model object
filePath	a file path that the serialized model will be written to
...	Additional parameters
baseUri	a base URI to use for the serialization

Value

an integer containing the return status where non zero indicates an error occurred during serialization

---

setNameSpace *Set a namespace for the serializer.*

Description

Set a namespace for the serializer.

Usage

```
setNameSpace(.Object, world, namespace, prefix)

## S4 method for signature 'Serializer,World,character,character'
setNameSpace(.Object, world, namespace, prefix)
```

Arguments

.Object	a Serializer object
world	a World object
namespace	the namespace to add to the serializer
prefix	the namespace prefix to associate with the namespace

setQueryResultLimit *Set limit on returned query results*

Description

Set limit on returned query results

Usage

```
setQueryResultLimit(.Object, limit)

## S4 method for signature 'Query'
setQueryResultLimit(.Object, limit)
```

Arguments

.Object	a Query object
limit	the result set limit. Specify a value >= to have a limit, or a value < 0 to have no limit.

Statement-class *An RDF Statement object*

Description

A Statement object is created using the provided subject, predicate and object.

Details

A Statement object can be created from Node objects that are provided for the subject, predicate and object. An alternative way to create a Statement object is to provide the subject, predicate and object as character values. If this later method is used, the character values will be evaluated to determine the appropriate RDF type for the subject and object. Note that the RDF type for the predicate will always be 'uri' (aka 'resource'). If the automatic determination of RDF types is not desired, then the `subjectType` and `objectType` parameters can be specified to explicitly set the RDF types.

Slots

`librdf_statement` A redland statement object

Methods

- `Statement-initialize`: Initialize a Statement object.
- `getTermType`: Return the redland node type for the specified RDF term in a statement.
- `freeStatement`: Free memory used by a librdf statement.

See Also

redland: redland package

Examples

```
world <- new("World")
# Create nodes manually and add to the statment
subject <- new("Node", blank="_:myid1", world)
predicate <- new("Node", uri="http://www.example.com/isa", world)
object <- new("Node", literal="thing", world)
stmt <- new("Statement", world, subject, predicate, object)

# Create the statement specifying node values directly
stmt <- new("Statement", world, subject="http://www.example.com/myevent",
                                predicate="http://example.com/occurredAt",
                                object="Tue Feb 17 14:05:13 PST 2015")
stmt <- new("Statement", world, subject=NULL,
                                predicate="http://www.example.com/hasAddr",
                                object="http://www.nothing.com", objectType="literal")
stmt <- new("Statement", world, subject="http://www.example.com/BobSmith",
                                predicate="http://www.example.com/says",
                                object="¡Hola, amigo! ¿Cómo estás?",
                                objectType="literal",
                                language="es")
```

Storage-class *A Redland Storage object*

Description

A Redland Storage object

Slots

`librdf_storage` A redland storage object

`type` the storage type to create, i.e. "hashes", "mysql", "postgresql", ...

Methods

- Storage-initialize: Initialize a Storage object
- freeStorage: Free memory used by a librdf storage object

See Also

redland: redland package

Examples

```
world <- new("World")
storage <- new("Storage", world, "hashes", name="", options="hash-type='memory'")
```

World-class *A Redland World object, used to initialize the Redland RDF library.*

Description

A World object is the top level object in the Redland RDF library implementation, so it contains all other objects needed to process RDF Models.

Slots

`librdf_world` A redland world object

Methods

- `World-initialize`: Initialize a World object
- `freeWorld`: Free memory used by a librdf world object

See Also

`redland`: redland package

Examples

```
world <- new("World")
```

writeResults *Write query results to a file.*

Description

Write query results to a file.

Usage

```
writeResults(.Object, model, ...)

## S4 method for signature 'Query'
writeResults(
  .Object,
  model,
  file,
  mimeType = "application/x-turtle",
  format_uri = NULL,
  base_uri = NULL
)
```

Arguments

.Object	a Query object
model	a Model object
...	additional parameters
file	a string specifying the output file
mimeType	a string specifying the mimeType of the output file. Currently supported values are "application/x-turtle", "text/plain", "application/json", "text/html"
format_uri	(not currently used)
base_uri	(not currently used)

Details

After this method is called, the Query object is no longer usable and should be deleted "rm(query)" and a new object created.

Examples

```
world <- new("World")
storage <- new("Storage", world, "hashes", name="", options="hash-type='memory'")
model <- new("Model", world, storage, options="")
stmt <- new("Statement", world=world,
  subject="https://orcid.org/0000-0002-2192-403X",
  predicate="http://www.w3.org/ns/prov#Agent",
  object="slaughter",
  objectType="literal", datatype_uri="http://www.w3.org/2001/XMLSchema#string")
status <- addStatement(model, stmt)
queryString <- paste("PREFIX orcid: <https://orcid.org/>",
                     "PREFIX dataone: <https://cn.dataone.org/cn/v1/resolve/>",
                     "PREFIX prov: <http://www.w3.org/ns/prov#>",
                     "SELECT ?a ?c WHERE { ?a prov:Agent ?c . }", sep=" ")
query <- new("Query", world, queryString, base_uri=NULL, query_language="sparql", query_uri=NULL)
# Return all results as a string
tf <- tempfile()
writeResults(query, model, file=tf, mimeType="application/x-turtle")

# When the query object is no longer needed, the resources it had allocated can be freed.
freeQuery(query)
rm(query)
```

[,ExternalReference-method

Subset a list of ExternalReferences

Description

Subset a list of ExternalReferences

Usage

```
## S4 method for signature 'ExternalReference'
x[i, j, ..., drop = TRUE]
```

Arguments

x	a list of ExternalReferences
i	row subscript
j	column subscript
...	additional arguments
drop	a logical

[<-,ExternalReference-method

Assign values in a list of ExternalReferences

Description

Assign values in a list of ExternalReferences

Usage

```
## S4 replacement method for signature 'ExternalReference'
x[i, j, ...] <- value
```

Arguments

x	a list of ExternalReferences
i	row subscript
j	column subscript
...	additional arguments
value	a value to assign

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