Package ‘redland’

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Title RDF Library Bindings in R
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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.

Depends R (>= 3.1.1), methods
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Suggests spelling, knitr, testthat, rmarkdown, stringi

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  'Model.R' 'Parser.R' 'Query.R' 'QueryResults.R' 'Serializer.R'
  'mergeNamespace_roclet.R' 'redland-package.R' 'util.R'

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addStatement

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

```r
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

```r
executeQuery(.Object, model)
```

## S4 method for signature 'Query'
```r
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

```r
freeModel(.Object)
```

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

**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**

```r
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)
```

---

**Description**

Free memory used by a librdf parser

**Usage**

```r
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

```r
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)
# Create the default "rdfxml" serializer
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.
freeStorage

Examples

```r
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

```r
freeStorage(.Object)
```

## S4 method for signature 'Storage'

```r
freeStorage(.Object)
```

Arguments

- `.Object`: a Storage object to free memory for

Examples

```r
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)
```
Description
Free memory used by a librdf world object

Usage
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)

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

Usage
getBlankNodeId(.Object)

Arguments
/Object a Node object

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

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 it 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

g NodeType(.Object)

## S4 method for signature 'Node'
g NodeType(.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)
```

```r
## 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

```r
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)
```

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

**Arguments**

- `.Object` a Query object

**Value**

the query result limit. If a limit is set then the value will be $\geq 0$. If the value is $< 0$, no limit is set

---

**getResults**  
**Return all query results**

**Description**

Return all query results

**Usage**

getResults(.Object, model, ...)

```r
## 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**

```r
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/>", 
```

---

getResults

Arguments

- `.Object` a Query object

Value

the query result limit. If a limit is set then the value will be $\geq 0$. If the value is $< 0$, no limit is set
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)
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

```r
## 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

```r
## 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**

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

*Initialize the Query object.*

**Arguments**

<table>
<thead>
<tr>
<th>Argument</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>.Object</code></td>
<td>the Query object</td>
</tr>
<tr>
<td><code>world</code></td>
<td>a World object</td>
</tr>
<tr>
<td><code>querystring</code></td>
<td>a query string for the language specified in <code>query_language</code></td>
</tr>
<tr>
<td><code>base_uri</code></td>
<td>a URI to prepend to relative URI in the document</td>
</tr>
<tr>
<td><code>query_language</code></td>
<td>the query language to execute the querystring with</td>
</tr>
<tr>
<td><code>query_uri</code></td>
<td>a URI to prepend to terms in the query</td>
</tr>
</tbody>
</table>

**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**

```r
## 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**

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

Construct a Statement object.

### Description

Construct a Statement object.

### Usage

```r
## 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 an 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 Storage object

Description

Initialize a Storage object

Usage

```r
## 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

```r
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**

```r
## 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**

```r
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**

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

**Arguments**

- `x` the SWIGArray

---

**librdf_copyright_string**

*Copyright string (multiple lines).*

---

**Description**

Copyright string (multiple lines).

**Usage**

```r
librdf_copyright_string (.copy)
```

**Arguments**

- `.copy` NA

**Value**

character

**References**

[https://librdf.org/docs/](https://librdf.org/docs/)

**See Also**

This R function is a wrapper function that directly calls 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")
librdf_digest_init

Value

void

References

https://librdf.org/docs/

See Also

This R function is a wrapper function that directly calls 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 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 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 )
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

See Also
This R function is a wrapper function that directly calls 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 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 )
**librdf_free_iterator**

**Arguments**

- 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 Redland RDF C libraries. For more information about Redland RDF, view the online documentation indicated in the 'References' section.

---

**Description**

Destructor - destroy a librdf_iterator object.

**Usage**

```r
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 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
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")
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
librdf_free_stream

**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
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

<table>
<thead>
<tr>
<th>Argument</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>hash</td>
<td>librdf_hash object (&quot;_p_librdf_hash_s&quot;)</td>
</tr>
<tr>
<td>filter</td>
<td>NULL terminated list of keys to ignore (&quot;_p_p_char&quot;)</td>
</tr>
</tbody>
</table>

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 function 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/](https://librdf.org/docs/)

**See Also**

This R function is a wrapper function that directly calls 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 function 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")`
librdf_iterator_end

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 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/](https://librdf.org/docs/)

**See Also**

This R function is a wrapper function that directly calls 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")
librdf_iterator_next

Value

_p_librdf_node_s

References

https://librdf.org/docs/

See Also

This R function is a wrapper function that directly calls 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 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 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 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**

```r
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 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**

```r
librdf_log_message_message ( message )
```

**Arguments**

- `message` : log message ("_p_librdf_log_message")
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")
oobject 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 content ("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.

Description

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

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

**Arguments**

- `model`: the model object ("_p_librdf_model_s")
- `context`: the context ("_p_librdf_node_s")
- `.copy`: NA

**Value**

- integer

**References**

https://librdf.org/docs/
librdf_model_contains_statement

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 Redland RDF C libraries. For more information about Redland RDF, view the online documentation indicated in the 'References' section.
See Also

This R function is a wrapper function that directly calls 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 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 )
librdf_model_get_arcs

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/](https://librdf.org/docs/)

See Also

This R function is a wrapper function that directly calls 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/](https://librdf.org/docs/)
See Also

This R function is a wrapper function that directly calls 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**

```r
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/](https://librdf.org/docs/)

**See Also**

This R function is a wrapper function that directly calls 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 )
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 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).
librdf_model_get_target

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 Redland RDF C libraries. For more information about Redland RDF, view the online documentation indicated in the 'References' section.

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 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

<table>
<thead>
<tr>
<th>Argument</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>model</td>
<td>librdf_model object (&quot;_p_librdf_model_s&quot;)</td>
</tr>
<tr>
<td>source</td>
<td>librdf_node source (&quot;_p_librdf_node_s&quot;)</td>
</tr>
<tr>
<td>arc</td>
<td>librdf_node arc (&quot;_p_librdf_node_s&quot;)</td>
</tr>
</tbody>
</table>

Value

_p_librdf_iterator_s

References

https://librdf.org/docs/

See Also

This R function is a wrapper function that directly calls 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 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**

```r
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**

```r
librdf_model_remove_statement ( model,
statement,
.copy )
```
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 Redland RDF C libraries. For more information about Redland RDF, view the online documentation indicated in the 'References' section.
librdf_model_size

References

https://librdf.org/docs/

See Also

This R function is a wrapper function that directly calls 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 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 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 )
librdf_model_transaction_commit

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_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 )
**librdf_new_hash**

**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/](https://librdf.org/docs/)

**See Also**

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

```r
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**

```r
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 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 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 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 )
**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**

```r
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/](https://librdf.org/docs/)

**See Also**

This R function is a wrapper function that directly calls 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 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**

```r
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/](https://librdf.org/docs/)

**See Also**

This R function is a wrapper function that directly calls 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**

```r
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**

```r
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/](https://librdf.org/docs/)

**See Also**

This R function is a wrapper function that directly calls 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**

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

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 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/](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.

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

```r
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/](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/](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 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")
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 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
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 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 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
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**

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

**Arguments**

- `node`: the node object ("_p_librdf_node_s")
- `.copy`: NA

**Value**

integer

**References**

[https://librdf.org/docs/](https://librdf.org/docs/)

**See Also**

This R function is a wrapper function that directly calls 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**

```r
librdf_parser_check_name ( world, name, .copy )
```
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 )
librdf parser get namespaces seen prefix

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.

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 )
librdf_parser_parse_as_stream

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.

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/
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 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

<table>
<thead>
<tr>
<th>Argument</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>parser</td>
<td>the parser (&quot;_p_librdf_parser_s&quot;)</td>
</tr>
<tr>
<td>uri</td>
<td>the URI to read the content (&quot;_p_librdf_uri_s&quot;)</td>
</tr>
<tr>
<td>inUriOrNull</td>
<td>the base URI to use or NULL (&quot;_p_librdf_uri_s&quot;)</td>
</tr>
<tr>
<td>model</td>
<td>the model to use (&quot;_p_librdf_model_s&quot;)</td>
</tr>
<tr>
<td>.copy</td>
<td>NA</td>
</tr>
</tbody>
</table>

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_into_model

Parse a string of content into an librdf_model.

Description

Parse a string of content into an librdf_model.

Usage

```r
librdf_parser_parse_string_into_model ( 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_model_s`

References

- [https://librdf.org/docs/](https://librdf.org/docs/)

See Also

This R function is a wrapper function that directly calls 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 a librdf_stream of statements.

Description

Parse a string of content into a librdf_stream of statements.

Usage

```r
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/](https://librdf.org/docs/)
librdf_parser_set_feature

Usage

librdf_parser_set_feature ( parser,
feature,
value,
.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 Redland RDF C libraries. For more information about Redland RDF, view the online documentation indicated in the 'References' section.
librdf_query_execute

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 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/](https://librdf.org/docs/)

**See Also**

This R function is a wrapper function that directly calls 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/](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 )
```
librdf_query_results_finished

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_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       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_value**

*Get one binding value for the current result.*

**Arguments**

<table>
<thead>
<tr>
<th>Argument</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>query_results</td>
<td>librdf_query_results query results (“_p_librdf_query_results”)</td>
</tr>
<tr>
<td>offset</td>
<td>offset of binding name into array of known names (“integer”)</td>
</tr>
</tbody>
</table>

**Value**

character

**References**

https://librdf.org/docs/

**See Also**

This R function is a wrapper function that directly calls 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 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 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 )
librdf_query_results_is_graph

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 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 )
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 |

References

https://librdf.org/docs/

See Also

This R function is a wrapper function that directly calls 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/
`librdf_query_set_limit`  

**See Also**

This R function is a wrapper function that directly calls 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**

```r
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/](https://librdf.org/docs/)

**See Also**

This R function is a wrapper function that directly calls 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 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
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.
librdf_serializer_serialize_stream_to_string

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 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 )
librdf_serializer_set_feature

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
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 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
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 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_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 )
```
**librdf_statement_set_object**

**Arguments**

<table>
<thead>
<tr>
<th>Argument</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>statement</td>
<td>statement (&quot;_p_librdf_statement_s&quot;)</td>
</tr>
<tr>
<td>partial_statement</td>
<td>statement with possible empty parts (&quot;_p_librdf_statement_s&quot;)</td>
</tr>
<tr>
<td>.copy</td>
<td>NA</td>
</tr>
</tbody>
</table>

**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**

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

**Arguments**

<table>
<thead>
<tr>
<th>Argument</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>statement</td>
<td>librdf_statement object (&quot;_p_librdf_statement_s&quot;)</td>
</tr>
<tr>
<td>object</td>
<td>librdf_node of object (&quot;_p_librdf_node_s&quot;)</td>
</tr>
</tbody>
</table>

**Value**

void

**References**

https://librdf.org/docs/
librdf_statement_set_predicate

**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**

```r
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 )
`librdf_stream_get_object`

**Arguments**

- `stream` : `librdf_stream` object ("_p_librdf_stream_s")
- `.copy` : NA

**Value**

- integer

**References**

[https://librdf.org/docs/](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.

---

**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/](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 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 )
librdf_uri_equals

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**

```r
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/
librdf_version_decimal

Library full version as a decimal integer.

Description

Library full version as a decimal integer.

Usage

librdf_version_decimal (.copy )
librdf_version_decimal_get

Arguments

.copy NA

Value

integer

References

https://librdf.org/docs/

See Also

This R function is a wrapper function that directly calls 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
**librdf_version_minor**

**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**

```r
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 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**

```r
librdf_version_release ( .copy )
```

**Arguments**

- `.copy` NA
librdf_version_release_get

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
librdf_world_get_feature

Value

character

References

https://librdf.org/docs/

See Also

This R function is a wrapper function that directly calls 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 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 )
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/
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

```r
## 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

```r
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

```r
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

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

## S4 method for signature 'Parser,World,character,Model'

```r
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

```r
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

```r
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
raptor_locator_file

Value

integer

References

https://librdf.org/docs/

See Also

This R function is a wrapper function that directly calls 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 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 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")
**raptor_version_decimal**

**Value**
character

**References**

[https://librdf.org/docs/](https://librdf.org/docs/)

**See Also**

This R function is a wrapper function that directly calls 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**

```r
raptor_version_decimal (.copy )
```

**Arguments**

- `.copy` logical

**Value**

integer

**References**

[https://librdf.org/docs/](https://librdf.org/docs/)

**See Also**

This R function is a wrapper function that directly calls 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/](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
**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 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
raptor_version_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 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 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
raptor_version_string_get

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 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
**rasqal_version_major**

**Value**

integer

**References**

[https://librdf.org/docs/](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**

```r
rasqal_version_major ( .copy )
```

**Arguments**

- `.copy` logical

**Value**

integer

**References**

[https://librdf.org/docs/](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/](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
rasqal_version_minor_get

Value

integer

References

https://librdf.org/docs/

See Also

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

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 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
rasqal_version_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**

```r
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:

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<th>Concept</th>
<th>Redland C type</th>
<th>redland R class</th>
<th>Purpose</th>
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<td>librdf_node</td>
<td>Node</td>
<td>RDF Model &amp; Syntax nodes</td>
</tr>
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<td>Statement / Triple</td>
<td>librdf_statement</td>
<td>Statement</td>
<td>RDF Model &amp; Syntax arcs (statements, triples)</td>
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<td>Model</td>
<td>librdf_model</td>
<td>Model</td>
<td>Set of Statements usually held in one Storage.</td>
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<td>Node</td>
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<td>Node</td>
<td>The subject, predicate or object of a Statement.</td>
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<td>Storage for Models either persistent or in-memory.</td>
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<td>Syntax parsers delivering Stream of Statements or writing to a Model</td>
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<td>Querying of an Model delivering a QueryResults</td>
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<td>Serializer</td>
<td>Serializes a Model into a syntax such as RDF/XML</td>
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<td>World</td>
<td>librdf_world</td>
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<td>RDF wrapper class handling Redland startup/shutdown</td>
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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 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'.

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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

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

```r
## 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

Roxgen process function for the 'mergeNamespace' roclet

Description

This function is called by the Roxgen2 roxygenize function.

Usage

```r
## S3 method for class 'roclet_mergeNamespace'
roclet_process(x, blocks, env, base_path)
```
Serializer-class

Arguments

- `x`  
  the currently running roclet
- `blocks`  
  the documentation blocks
- `env`  
  the current env
- `base_path`  
  the top directory of the R package

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

```r
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

```r
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**
```r
setQueryResultLimit(.Object, limit)
```

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

**Arguments**
- `.Object` a Query object
- `limit` the result set limit. Specify a value \( \geq 0 \) 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.
Storage-class

See Also

redland: redland package

Examples

```r
global <- new("World")
# Create nodes manually and add to the statement
subject <- new("Node", blank="_:myid1", global)
object <- new("Node", literal="thing", global)
stmt <- new("Statement", global, subject, predicate, object)

# Create the statement specifying node values directly
stmt <- new("Statement", global, subject="http://www.example.com/myevent",
predicate="http://example.com/occurredAt",
object="Tue Feb 17 14:05:13 PST 2015")
stmt <- new("Statement", global, subject=NULL,
predicate="http://www.example.com/hasAddr",
object="http://www.nothing.com", objectType="literal")
stmt <- new("Statement", global, 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

```r
global <- new("World")
storage <- new("Storage", global, "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**

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

**writeResults**

Write query results to a file.

**Description**

Write query results to a file.

**Usage**

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

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

```
Arguments

args (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)
```

Description

Subet 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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