getuuid: Functions to handle unique IDs

Description
These functions allow a user to retrieve and transform universally unique ID values. A user can get a new UUID, as well as transform a string representation into a byte representation and vice versa.

Usage
getuuid(cur)

Arguments
cur If provided, either a UUID string or a uuidt object

Details
This package uses Theodore Ts’o’s libuuid to generate universally unique ID values. A unique ID value is represented in R by the class uuidt, which wraps the byte values. A wrapper object is the most common method of handling these values, Ruuid - which also provides for a string representation of the UUID.

If no parameter cur is passed into getuuid, a new Ruuid is generated. If either a string or a uuidt object is passed in, then the complementary piece is generated and the resultant Ruuid is generated.

Value
getuuid: Returns an object of class Ruuid.
Ruuid-class

Author(s)
R. Gentleman and Jeff Gentry

References
Theodore Ts’o’s Universally Unique ID library
http://web.mit.edu/tytso/www/home.html

See Also
Ruuid, uuidt

Examples
z <- getuuid()
z
a <- getuuid(as.character(z))
a
q <- getuuid(uuid(z))
q
w <- getuuid()
w

Ruuid-class

Class "Ruuid": A class to manage UUID values

Description
Class Ruuid wraps and handles the UUID values for the user within R.

Objects from the Class
Objects are not intended to be directly created. A user can retrieve a new instantiation of this class with the getuuid function.

Slots
stringRep: Object of class "character" A human readable string representation of the ID
uuid: Object of class "uuidt" Contains the actual UUID value.

Methods
stringRep Retrieves the string representation of the UUID
uuid Retrieves the "uuidt" object
show Outputs the string representation of the UUID
as.character Returns the string representation of the UUID
== Returns true if both arguments are Ruuid objects and have the same string representation.
!= Returns true if both arguments are Ruuid objects and have different string representations.
Author(s)
R. Gentleman and Jeff Gentry

References
Theodore Ts’o’s Universally Unique ID library
http://web.mit.edu/tytso/www/home.html

See Also
getuuid, uuidt

Examples
z <- getuuid()
z
class(z)

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Class "uuidt": A class to contain UUID values

Description
Class uuidt wraps the actual byte values for a UUID

Objects from the Class
Objects of class uuidt are not intended to be created directly by the user. A call to getuuid or str2uuid will generate such a value.

Slots

uuid: Object of class "character": Byte values of the UUID

Methods

uuid Retrieves the byte string of the UUID
show Prints a human readable display of the byte values

Author(s)
R. Gentleman and Jeff Gentry

References
Theodore Ts’o’s Universally Unique ID library
http://web.mit.edu/tytso/www/home.html

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