

Package ‘Rip46’

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Type Package

Title Utils for IP4 and IP6 Addresses

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URL <https://github.com/nfultz/Rip46>

Description Utility functions and S3 classes for IPv4 and IPv6 addresses, including conversion to and from binary representation.

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Imports Rcpp (>= 0.11.6), methods

LinkingTo Rcpp

OS_type unix

NeedsCompilation yes

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ip4

IPv4 Conversion Functions

Description

Functions to manipulate objects of class "ip4" representing IP version 4 addresses.

Usage

```
as.ip4(x)

## S3 method for class 'numeric'
as.ip4(x)

## S3 method for class 'character'
as.ip4(x)

## S3 method for class 'ip4'
as.character(x, ...)
```

Arguments

x An object to be converted.
... further arguments passed to or from other methods.

Examples

```
as.ip4("192.168.0.1")
```

ip6

IPv6 Conversion Functions

Description

Functions to manipulate objects of class "ip6" representing IP version 6 addresses.

Usage

```
as.ip6(x)

## S3 method for class 'character'
as.ip6(x)

## S3 method for class 'ip6'
as.character(x, ...)
```

Arguments

x An object to be converted.
 ... further arguments passed to or from other methods.

Examples

```
as.ip6("DE:AD:BE:EF:01:23:45:67")
```

 mask

Extract Networks from IP addresses

Description

Extract Networks from IP addresses

Usage

```
mask(x, m)
```

```
classA(x)
```

```
classB(x)
```

```
classC(x)
```

Arguments

x an ip4 object
 m a bit mask

 mySqlToIp4

Convert MySQL ATONs to Rip4

Description

When you query a MySQL db, you should use INET_ATON(ip_field) to convert a string IP to an (unsigned) int.

Usage

```
mySqlToIp4(x)
```

Arguments

x input numeric vector

Details

Unfortunately, the RMySQL driver will convert these to doubles because not all unsigned ints are representable as ints. Because doubles get normalized, we can't mask subnets directly.

Instead, we can map the top half of unsigned integers to the negative half of signed ints using 2s-complement.

Value

integer format IP addresses

Rip46

R utils for IP4 and IP6 addresses

Description

R utils for IP4 and IP6 addresses

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