Package ‘Rip46’

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Type    Package
Title   Utils for IP4 and IP6 Addresses
Version 1.0.2
Date    2015-09-20
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URL     https://github.com/nfultz/ripT6
Description Utility functions and S3 classes for IPv4 and IPv6 addresses, including conversion to and from binary representation.
License GPL-3
Imports Rcpp (>= 0.11.6), methods
LinkingTo Rcpp
OS_type unix
NeedsCompilation yes
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**IPv4 Conversion Functions**

**Description**

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

**Usage**

```r
as.ip4(x)
```

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

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

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

**Arguments**

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

**Examples**

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

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**IPv6 Conversion Functions**

**Description**

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

**Usage**

```r
as.ip6(x)
```

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

```r
## 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")

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

Description
   Convert MySQL ATONs to Rip4

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

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