

How about IPAddr#<=> to take care of mask_addr?

08/07/2009 06:31 PM - no6v (Nobuhiro IMAI)

Status:Rejected Priority:Normal Assignee:knu (Akinori MUSHA) Target version:2.0.0	
Description =begin ##### #1877 ##### IPAddr ##### Access Control List ##### RUBY_DESCRIPTION => "ruby 1.9.2dev (2009-08-07 trunk 24440) [i686-linux]" acl = { ?> IPAddr.new("192.168.2.0/29") => :admin, ?> IPAddr.new("192.168.2.0/24") => :user, ?> } => {#<IPAddr: IPv4:192.168.2.0/255.255.255.248>=>:admin, #<IPAddr: IPv4:192.168.2.0/255.255.255.0>=>:user} acl.select{ r, r === "192.168.2.56"}.max.last => :user acl.select{ r, r === "192.168.2.1"}.max.last => :user #####<=> @@addr ##### @mask_addr ## ##### IPAddr ##### ##### #####(#####) IPAddr#== ##### ##### IPAddr.new("192.168.2.0/24") == IPAddr.new("192.168.2.0/32") true false ##### Nobuhiro IMAI nov@yo.rim.or.jp Key fingerprint = F39E D552 545D 7C64 D690 F644 5A15 746C BD8E 7106 Index: lib/ipaddr.rb --- lib/ipaddr.rb (revision 24440) +++ lib/ipaddr.rb (working copy) @@ -133,16 +133,10 @@ class IPAddr # Returns a new ipaddr built by bitwise negation. def ~ return self.clone.set(addr_mask(~@addr)) end • Returns true if two ipaddrs are equal. • def ==(other) • other = coerce_other(other)	

- return @family == other.family && @addr == other.to_i
- end

• Returns a new ipaddr built by masking IP address with the given prefixlen/netmask. (e.g. 8, 64, "255.255.255.0", etc.)

```
def mask(prefixlen)
  return self.clone.mask!(prefixlen)
end
@@ -325,11 +319,11 @@ class IPAddr
  def <=>(other)
    other = coerce_other(other)

    return nil if other.family != @family
```

- return @addr <=> other.to_i
- return [@addr, @mask_addr] <=> [other.to_i, other.mask_addr]
- end
- include Comparable

```
# Checks equality used by Hash.
def eql?(other)
```

```
@@ -372,10 +366,12 @@ class IPAddr
  af, _to_string(@addr), _to_string(@mask_addr))
end
```

```
protected
```

- attr_reader :mask_addr
- def set(addr, *family)
 case family[0] ? family[0] : @family
 when Socket::AF_INET
 if addr < 0 || addr > IN4MASK
 raise ArgumentError, "invalid address"
 end
 @@ -789,15 +785,24 @@ class TC_Operator < Test::Unit::TestCase
 a = ~@in6_addr_any
 assert_equal(IN6MASK128, a.to_s)
 assert_equal("::", @in6_addr_any.to_s)
 end
 end
 end
- def test_equal
- assert_equal(true, @a == IPAddr.new("3ffe:505:2::"))
- def test_compare
- assert_equal(true, @a == IPAddr.new("3ffe:505:2::/48"))
- assert_equal(false, @a == IPAddr.new("3ffe:505:2::"))
- assert_equal(false, @a == IPAddr.new("3ffe:505:3::"))
- assert_equal(true, @a != IPAddr.new("3ffe:505:3::"))
- assert_equal(false, @a != IPAddr.new("3ffe:505:2::"))
- assert_equal(false, @a != IPAddr.new("3ffe:505:2::/48"))
- x = IPAddr.new("3ffe:505:3::/48")
- y = IPAddr.new("3ffe:505:2::/64")
- assert_equal(true, @a < x)
- assert_equal(true, @a < y)
- assert_equal(false, x < y)
- min, max = [y, x, @a].minmax
- assert_equal(@a, min)
- assert_equal(x, max)
- end

```
def test_mask
  a = @a.mask(32)
  assert_equal("3ffe:505::", a.to_s)
```

```
=end
```

Related issues:

Related to Ruby - Feature #1275: IAddr unnecessarily destroys information on...

Rejected

03/12/2009

History

#1 - 08/14/2009 09:19 PM - no6v (Nobuhiro IMAI)

```
=begin
#####
```

From: Nobuhiro IMAI <nov_at_yo.rim.or.jp>

Date: Fri, 7 Aug 2009 18:31:36 +0900

```
#####<=> @addr ##### @mask_addr ##
##### IAddr #####
#####
```

```
#####(#####) IAddr#== #####
#####
```

```
IAddr.new("192.168.2.0/24") == IAddr.new("192.168.2.0/32")
```

```
  true  false #####
```

#####

- ##### IAddr #####
 (IAddr#<=> @mask_addr #####)
- <=> Comparable ##### == #####IAddr#== #####

[ruby-dev:39038]

Nobuhiro IMAI nov@yo.rim.or.jp

Key fingerprint = F39E D552 545D 7C64 D690 F644 5A15 746C BD8E 7106

```
=end
```

#2 - 09/12/2009 09:18 PM - no6v (Nobuhiro IMAI)

```
=begin
#####
```

From: Nobuhiro IMAI <nov_at_yo.rim.or.jp>

Date: Fri, 14 Aug 2009 21:19:42 +0900

```
#####
```

- ##### IAddr #####
 (IAddr#<=> @mask_addr #####)
- <=> Comparable ##### == #####IAddr#== #####

```
  [ruby-dev:39038] #####
```

#####

```
IAddr.new("192.168.2.0/24") == IAddr.new("192.168.2.0/32")
```

```
  true  false #####
```

Nobuhiro IMAI nov@yo.rim.or.jp

Key fingerprint = F39E D552 545D 7C64 D690 F644 5A15 746C BD8E 7106

```
=end
```

#3 - 09/28/2009 10:26 AM - znz (Kazuhiro NISHIYAMA)

=begin
At Sun, 27 Sep 2009 12:00:48 +0900,
Akinori MUSHA wrote:

```

00000000000000000000IPAddr0000000000000000
00000000000000000000IP000000000000
00000000000000000000

```

□□□□□□□□□□□□□□□□

```
IPAddr.new("192.168.0.1/24") ==> #<IPAddr: IPv4:192.168.0.0/255.255.255.0>
IPAddr.new("192.168.0.2/24") ==> #<IPAddr: IPv4:192.168.0.0/255.255.255.0>
```

```
000000000000new000000000000000000000000
000IP0000000000000000000000
```

```
=end
```

#4 - 10/04/2009 01:40 PM - no6v (Nobuhiro IMAI)

```
=begin
□□□□□□
```

From: "Akinori MUSH" <knu_at_iDaemons.org>
Date: Sun, 27 Sep 2009 12:00:48 +0900

- `IPAddr` `IPAddr#<=> @mask_addr`
- `Comparable` `IPAddr#==`

```
[[ [ruby-dev:39038] ]]
```

```
IPAddr.new("192.168.2.0/24") == IPAddr.new("192.168.2.0/32")
```

[illegible]

□ □ □ □ □ □ □ □ □ □ □ □ □ □

```

00000000000000000000IPAddr00000000000000000000
000000000000000000000000IP00000000000000000000
0000000000000000000000000000000000000000000

```

$\square\square\square\square\square\square\square\square\square\square \Leftrightarrow \square\square\square\square\square\square\square\square$

[illegible]

```

00000000000000000000 <=> 00000000000000000000
00 a1 == a2 && (a1 <=> a2) != 0 00000000000000000000
000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000

```

```

#####API#####
#mask_addr  #prefixlen #####
sort_by/max_by { [i, i.mask_addr] } #####
#####(#####)

```

```
class NetAddr < IPAddr  
    == | <=> |
```

□ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □

□ □

Nobuhiro IMAI nov@yo.rim.or.jp

Key fingerprint = F39E D552 545D 7C64 D690 F644 5A15 746C BD8E 7106

=end

#5 - 04/02/2010 08:27 AM - znz (Kazuhiro NISHIYAMA)

- *Category set to lib*

- *Status changed from Open to Assigned*

- *Assignee set to knu (Akinori MUSHA)*

- *Target version set to 2.0.0*

- *Start date set to 08/07/2009*

=begin

=end

#6 - 02/14/2012 10:55 PM - mame (Yusuke Endoh)

- *Status changed from Assigned to Rejected*

ruby-core:42391

ruby-dev:39381 ruby-dev:39391

API (ruby-dev:39391)
reopen

FYI: znz (https://bugs.ruby-lang.org/issues/1275)
reopen

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Yusuke Endoh mame@tsg.ne.jp