

## Ruby master - Feature #1905

### How about IPAddr#<=> to take care of mask\_addr?

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

<b>Status:</b>	Rejected
<b>Priority:</b>	Normal
<b>Assignee:</b>	knu (Akinori MUSHYA)
<b>Target version:</b>	2.0.0
<b>Description</b>	
<pre>=begin []  #1877 []  IPAddr [] Access Control List []  RUBY_DESCRIPTION =&gt; "ruby 1.9.2dev (2009-08-07 trunk 24440) [i686-linux]" acl = { ?&gt; IPAddr.new("192.168.2.0/29") =&gt; :admin, ?&gt; IPAddr.new("192.168.2.0/24") =&gt; :user, ?&gt; } =&gt; {#=&gt;:admin, #=&gt;:user} acl.select{ r,   r === "192.168.2.56"}.max.last =&gt; :user acl.select{ r,   r === "192.168.2.1"}.max.last =&gt; :user  []&lt;=&gt; []@addr [] @mask_addr [] [] IPAddr [] []  []([]) IPAddr#== [] []  IPAddr.new("192.168.2.0/24") == IPAddr.new("192.168.2.0/32")  [] true [] false [] -- Nobuhiro IMAI <a href="mailto:nov@yo.rim.or.jp">nov@yo.rim.or.jp</a> 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 &amp;&amp; @addr == other.to_i  • end</pre>	

## 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"  
 @@ -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
- 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)



0000000000000000

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Nobuhiro IMAI [nov@yo.rim.or.jp](mailto: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:

```
0000000000000000IPAddr0000000000000000
000000000000000000000000iP000000000000
000000000000000000000000
```

0000000000000000

IPAddr.new("192.168.0.1/24") #=> #

IPAddr.new("192.168.0.2/24") #=> #

```
0000000000000000new0000000000000000000000
0000iP00000000000000000000000000000000
```

=end

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

=begin

000000

From: "Akinori MUSHA"

Date: Sun, 27 Sep 2009 12:00:48 +0900

- 000000000000000000000000 IPAddr 00000000 00(IPAddr#<=> 0 @mask\_addr 000000)
- <=> 0 Comparable 000 == 0000000000IPAddr#== 000000

000 [ruby-dev:39038] 0000000000000000

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

0 true 0 false 0000000000000000000000000000

0000000000000000

```
0000000000000000IPAddr0000000000000000
000000000000000000000000iP000000000000
000000000000000000000000
```

0000000000000000<=> 000000000000

0000000000<=> 0 include Comparable 0000 == 00000000

0000000000== 00000000000000000000000000000000

00 == 00000000000000000000000000000000

```
0000000000000000 <=> 0000000000000000
00 a1 == a2 && (a1 <=> a2) != 0 0000000000000000
0000000000000000000000000000000000000000000
000000000000000000000000
```

```
00000000API0000000000000000000000000000
#mask_addr 0 #prefixlen 0000000000000000
sort_by/max_by {|i| [i, i.mask_addr] } 000000000000
0000(000000000000)
```

```
00000000 class NetAddr < IPAddr 0000000000000000
0000 == 0 <=> 0000000000000000
```

00000000000000000000000000000000

00000000000000000000000000000000

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Nobuhiro IMAI [nov@yo.rim.or.jp](mailto: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*

000000000000000000000000[ruby-core:42391] 0000

00000000000000000000000000000000  
[ruby-dev:39381] [ruby-dev:39391]

0000000000 API ([ruby-dev:39391]) 000000000000  
00000000000000000000000000000000  
00000000000000000000000000000000  
0000000000 reopen 000000000000000000

FYI: znz 0000000000 (00000000 IP 0000000000)  
00 <https://bugs.ruby-lang.org/issues/1275> 000000000000  
00000000000000000000000000000000 reopen 0000000000

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Yusuke Endoh [mame@tsg.ne.jp](mailto:mame@tsg.ne.jp)