

## Ruby master - Bug #13170

### OpenSSL::X509::Name#eql? broken in Ruby 2.4.0

01/30/2017 10:15 PM - Iristyle (Ethan Brown)

<b>Status:</b>	Closed		
<b>Priority:</b>	Normal		
<b>Assignee:</b>			
<b>Target version:</b>			
<b>ruby -v:</b>	ruby 2.4.0p0 (2016-12-24 revision 57164) [x86_64-darwin15]	<b>Backport:</b>	2.2: UNKNOWN, 2.3: UNKNOWN, 2.4: DONE

#### Description

Previously the behavior in Ruby 2.3.1 and earlier was:

```
[1] pry(main)> OpenSSL::X509::Name.new(['CN', 'foo']).eql?(OpenSSL::X509::Name.new(['CN', 'bar']))
=> false
[2] pry(main)> OpenSSL::X509::Name.new(['CN', 'foo']).eql?(OpenSSL::X509::Name.new(['CN', 'foo']))
=> true
[3] pry(main)> RUBY_VERSION
=> "2.3.1"
```

In Ruby 2.4.0, the evaluation is backwards:

```
[1] pry(main)> OpenSSL::X509::Name.new(['CN', 'foo']).eql?(OpenSSL::X509::Name.new(['CN', 'bar']))
=> true
[2] pry(main)> OpenSSL::X509::Name.new(['CN', 'foo']).eql?(OpenSSL::X509::Name.new(['CN', 'foo']))
=> false
[3] pry(main)> RUBY_VERSION
=> "2.4.0"
```

This is due to the implementation of the function at

[https://github.com/ruby/ruby/blob/aab0d67a1ff5190ff7a951e40cee742210302aed/ext/openssl/openssl\\_x509name.c#L366-L379](https://github.com/ruby/ruby/blob/aab0d67a1ff5190ff7a951e40cee742210302aed/ext/openssl/openssl_x509name.c#L366-L379)

```
static VALUE openssl_x509name_eql(VALUE self, VALUE other)
```

Previously in 2.3.1 code returned (based on result = openssl\_x509name\_cmp0(self, other);):

```
return (result == 0) ? Qtrue : Qfalse;
```

Now the code has introduced a logic bug in 2.4.0 as of commit

<https://github.com/ruby/ruby/commit/aab0d67a1ff5190ff7a951e40cee742210302aed>:

```
return openssl_x509name_cmp0(self, other) ? Qtrue : Qfalse;
```

The code should be:

```
return (openssl_x509name_cmp0(self, other) == 0) ? Qtrue : Qfalse;
```

#### Associated revisions

Revision 8795838f - 01/31/2017 10:08 AM - rhe

openssl: import v2.0.3

Import Ruby/OpenSSL 2.0.3. Only bugfixes. The full commit log since 2.0.2 (imported at r57146) can be found at:

<https://github.com/ruby/openssl/compare/v2.0.2...v2.0.3>

Corey Bonnell (1):

Fix for ASN1::Constructive 'each' implementation

Kazuki Yamaguchi (10):

Fix build with static OpenSSL libraries on Windows  
([ruby-core:78878] [Bug #13080])

Merge pull request #96 from CBonnell/master

Merge branch 'topic/windows-static-linking-without-pkg-config' into maint

appveyor.yml: update OpenSSL version to 1.0.2j

buffering: fix typo in doc

test/envutil: fix assert\_raise\_with\_message

x509: fix OpenSSL::X509::Name#eq?

([ruby-core:79310] [Bug #13170])

ruby-openssl-docker: update versions of Ruby and OpenSSL

.travis.yml: test with Ruby 2.4

Ruby/OpenSSL 2.0.3

git-svn-id: svn+ssh://ci.ruby-lang.org/ruby/trunk@57482 b2dd03c8-39d4-4d8f-98ff-823fe69b080e

#### Revision 57482 - 01/31/2017 10:08 AM - rhenium (Kazuki Yamaguchi)

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#### Revision c1478b66 - 03/11/2017 06:59 PM - naruse (Yui NARUSE)

merge revision(s) 57482: [Backport #13080] [Backport #13170]

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git-svn-id: svn+ssh://ci.ruby-lang.org/ruby/branches/ruby\_2\_4@57881 b2dd03c8-39d4-4d8f-98ff-823fe69b080e

#### Revision 57881 - 03/11/2017 06:59 PM - naruse (Yui NARUSE)

merge revision(s) 57482: [Backport #13080] [Backport #13170]

```
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Ruby/openssl 2.0.3
```

## History

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### #1 - 01/30/2017 10:19 PM - Iristyle (Ethan Brown)

- Description updated

### #2 - 01/30/2017 10:25 PM - Iristyle (Ethan Brown)

A colleague has posted a pull request at <https://github.com/ruby/openssl/pull/100> fixing this issue.

### #3 - 01/30/2017 10:25 PM - adrienthebo (Adrien Thebo)

Pull request at <https://github.com/ruby/openssl/pull/100>.

### #4 - 01/31/2017 10:08 AM - Anonymous

- Status changed from Open to Closed

Applied in changeset r57482.

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### #5 - 03/11/2017 06:59 PM - naruse (Yui NARUSE)

- Backport changed from 2.2: UNKNOWN, 2.3: UNKNOWN, 2.4: UNKNOWN to 2.2: UNKNOWN, 2.3: UNKNOWN, 2.4: DONE

ruby\_2\_4 r57881 merged revision(s) 57482.