

Backport21 - Backport #9575

Step with 0 step is buggy

02/27/2014 05:25 PM - marcandre (Marc-Andre Lafortune)

Status:	Closed
Priority:	Normal
Assignee:	naruse (Yui NARUSE)
Description	
<p>I didn't realize that we now allow stepping with a '0' step. It should probably have been mentioned in the NEWS of 2.1.0?</p> <p>Anyways, couple of bugs with that new feature:</p> <pre>bn = 1 << 100 bn.step(by: 0, to: bn).first(2) # => [bn, bn] ok bn.step(by: 0).first(2) # => [bn.to_f, bn.to_f] not ok bn.step(by: 0, to: 0).first(2) # => [] not ok</pre> <p>The corresponding size don't all work either:</p> <pre>bn.step(by: 0) # => Float::INFINITY, ok bn.step(by: 0, to: bn).size # => ZeroDivisionError: divided by 0, should be infinity bn.step(by: 0, to: 0).size # => same 1.step(by:0, to: 42).size # => same</pre> <p>My patch is almost finished.</p>	

Associated revisions

Revision 1636c60f - 02/28/2014 02:04 AM - marcandre (Marc-Andre Lafortune)

- numeric.c: Fix Numeric#step with 0 unit [#9575]

git-svn-id: svn+ssh://ci.ruby-lang.org/ruby/trunk@45209 b2dd03c8-39d4-4d8f-98ff-823fe69b080e

Revision 45209 - 02/28/2014 02:04 AM - marcandre (Marc-Andre Lafortune)

- numeric.c: Fix Numeric#step with 0 unit [#9575]

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- numeric.c: Fix Numeric#step with 0 unit [#9575]

Revision ec8de033 - 03/02/2014 01:54 AM - marcandre (Marc-Andre Lafortune)

- NEWS-2.1.0: Mention that step can accept a 0 unit. See #9575

git-svn-id: svn+ssh://ci.ruby-lang.org/ruby/trunk@45234 b2dd03c8-39d4-4d8f-98ff-823fe69b080e

Revision 45234 - 03/02/2014 01:54 AM - marcandre (Marc-Andre Lafortune)

- NEWS-2.1.0: Mention that step can accept a 0 unit. See #9575

Revision 45234 - 03/02/2014 01:54 AM - marcandre (Marc-Andre Lafortune)

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Revision 45234 - 03/02/2014 01:54 AM - marcandre (Marc-Andre Lafortune)

- NEWS-2.1.0: Mention that step can accept a 0 unit. See #9575

Revision 00e41e71 - 06/10/2014 05:24 PM - nagachika (Tomoyuki Chikanaga)

merge revision(s) r45207,r45208,r45209,r45210: [Backport #9575]

```
* numeric.c: Create var for rb_intern("<=>")
* numeric.c: Fix Numeric#step with 0 unit [Bug #9575]
```

git-svn-id: svn+ssh://ci.ruby-lang.org/ruby/branches/ruby_2_1@46401 b2dd03c8-39d4-4d8f-98ff-823fe69b080e

Revision 46401 - 06/10/2014 05:24 PM - nagachika (Tomoyuki Chikanaga)

merge revision(s) r45207,r45208,r45209,r45210: [Backport #9575]

```
* numeric.c: Create var for rb_intern("<=>")
* numeric.c: Fix Numeric#step with 0 unit [Bug #9575]
```

History

#1 - 02/28/2014 02:07 AM - marcandre (Marc-Andre Lafortune)

Found many other problems when some arguments are floats:

```
4.2.step(by: 0.0).first(2)      # => [], should be [4.2, 4.2]
4.2.step(by: -0.0).first(2)    # => [-Infinity, -Infinity], should be [4.2, 4.2]
42.step(by: 0, to: -Float::INFINITY).first(2) # => [], should be [42, 42]
42.step(by: 0, to: 42.5).first(2) # => [42.0, 42.0], should really be [42, 42]
```

I believe I've fixed all cases.

#2 - 02/28/2014 02:11 AM - marcandre (Marc-Andre Lafortune)

- Tracker changed from Bug to Backport
- Project changed from Ruby trunk to Backport21
- Category deleted (core)
- Assignee changed from marcandre (Marc-Andre Lafortune) to naruse (Yui NARUSE)
- Target version deleted (2.2.0)

You'll have to backport r45206 -> r45208 in addition to r45209.

#3 - 02/28/2014 02:25 AM - marcandre (Marc-Andre Lafortune)

Also, it might be good to modify the 2.1 NEWS file to mention possibility of 0 step.
Thanks

#4 - 03/01/2014 10:42 AM - naruse (Yui NARUSE)

- Status changed from Open to Feedback

r45209 conflicts with current ruby_2_1 branch.

Marc-Andre Lafortune wrote:

Also, it might be good to modify the 2.1 NEWS file to mention possibility of 0 step.
Thanks

yeah, could you add NEWS and additional previous commits and NEWS commit?

thanks

#5 - 03/02/2014 02:09 AM - marcandre (Marc-Andre Lafortune)

- Status changed from Feedback to Open

Yui NARUSE wrote:

r45209 conflicts with current ruby_2_1 branch.

Right, [#9570](#) must be backported first.

More explicitly, the following will backport both without conflicts:

```
git cherry-pick c1fc20124c
git cherry-pick e184e31c0956..1636c60fe16
```

yeah, could you add NEWS and additional previous commits and NEWS commit?

I pushed r45234 (ec8de033e72935)

I hope that's what you wanted?

#6 - 06/10/2014 05:24 PM - nagachika (Tomoyuki Chikanaga)

- Status changed from Open to Closed

- % Done changed from 0 to 100

Applied in changeset [r46401](#).

merge revision(s) r45207,r45208,r45209,r45210: [Backport [#9575](#)]

```
* numeric.c: Create var for rb_intern("<=>")
* numeric.c: Fix Numeric#step with 0 unit [Bug #9575]
```