Ruby master - Bug #13105

`String#to_f` and `String#to_r` don't stop at successive underscores

01/05/2017 07:51 AM - nobu (Nobuyoshi Nakada)

<table>
<thead>
<tr>
<th>Status:</th>
<th>Closed</th>
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</thead>
<tbody>
<tr>
<td>Priority:</td>
<td>Normal</td>
</tr>
<tr>
<td>Assignee:</td>
<td>nobu (Nobuyoshi Nakada)</td>
</tr>
<tr>
<td>Target version:</td>
<td>2.5</td>
</tr>
<tr>
<td>ruby -v:</td>
<td>r57270</td>
</tr>
<tr>
<td>Backport:</td>
<td>2.2: WONTFIX, 2.3: WONTFIX, 2.4: WONTFIX</td>
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Description

Integer(), Float() and Rational() errs at successive underscores, and String#to_i stops the conversion there. But String#to_f and String#to_r continue the conversion like as there were just one underscore. Is this intentional?

```ruby
"1_2".to_i #=> 12
"1__2".to_i #=> 1
"1.__2".to_f #=> 1.2
"0.1__2".to_r #=> (3/25) == 0.12
```

Associated revisions

Revision 0b1f6aed - 03/15/2017 08:15 AM - nobu (Nobuyoshi Nakada)

object.c: make String#to_f consistent with literal

- object.c (rb_cstr_to_dbl): stop at successive underscores, as well as Float literals. [ruby-core:80098] [Bug #13105]
  - _ should be within digits
  - only one _ allowed between digits

git-svn-id: svn+ssh://ci.ruby-lang.org/ruby/trunk@57979 b2dd03c8-39d4-4d8f-98ff-823fe69b080e

Revision 57979 - 03/15/2017 08:15 AM - nobu (Nobuyoshi Nakada)

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Revision a441e89c - 03/16/2017 03:05 AM - nobu (Nobuyoshi Nakada)

test_rational.rb: invalid exponent
Revision 57987 - 03/16/2017 03:05 AM - nobu (Nobuyoshi Nakada)
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 Revision 62fb6147 - 03/16/2017 03:32 AM - nobu (Nobuyoshi Nakada)
rational.c: read_num

 Revision 57989 - 03/16/2017 03:32 AM - nobu (Nobuyoshi Nakada)
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Revision History:

#1 - 03/13/2017 05:11 AM - nobu (Nobuyoshi Nakada)
- Subject changed from 'String#to_f' and 'String#to_r' don't stop successive underscores to 'String#to_f' and 'String#to_r' don't stop at successive underscores

#2 - 03/13/2017 09:06 AM - matz (Yukihiro Matsumoto)
- Assignee changed from matz (Yukihiro Matsumoto) to nobu (Nobuyoshi Nakada)

We should have more consistency here. to_i and to_r should be more restrictive on treating _.  Namely,

- _ should be within digits
only one _ allowed between digits

Matz.

#3 - 03/15/2017 08:15 AM - nobu (Nobuyoshi Nakada)
- Status changed from Assigned to Closed

Applied in changeset r57979.

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#4 - 03/15/2017 08:20 AM - nobu (Nobuyoshi Nakada)
- Status changed from Closed to Open

- Assignee changed from nobu (Nobuyoshi Nakada) to matz (Yukihiro Matsumoto)

#5 - 03/15/2017 10:49 AM - nobu (Nobuyoshi Nakada)
- Assignee changed from matz (Yukihiro Matsumoto) to nobu (Nobuyoshi Nakada)

#6 - 03/16/2017 03:05 AM - nobu (Nobuyoshi Nakada)
- Status changed from Open to Closed

Applied in changeset r57987.

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test_rational.rb: invalid exponent

- test/ruby/test_rational.rb (test_parse): more checks for invalid exponent. [ruby-core:80098] [Bug #13105]

#7 - 03/18/2017 12:17 PM - naruse (Yui NARUSE)
- Backport changed from 2.2: REQUIRED, 2.3: REQUIRED, 2.4: REQUIRED to 2.2: WONTFIX, 2.3: WONTFIX, 2.4: WONTFIX