

Ruby master - Bug #13722

OptionParser::DecimalInteger can be converted as Octal

07/06/2017 09:59 AM - wmcumstie (William McCumstie)

Status: Closed	
Priority: Normal	
Assignee:	
Target version:	
ruby -v: ruby 2.5.0dev (2017-07-03 trunk 59255) [x86_64-linux]	Backport: 2.2: UNKNOWN, 2.3: UNKNOWN, 2.4: UNKNOWN
Description OptionParser::DecimalInteger will convert in octal format for input values that start with a '0'. In the attached script, an input of '035' will be converted to 29. Script Output: \$: ./ruby-op-octal-bug.rb Input: 035 Parsed: 29	

Associated revisions

Revision 8ddf0263 - 07/06/2017 11:49 AM - nobu (Nobuyoshi Nakada)

Fix DecimalInteger converting to octal bug

Previously if the input started with a '0' then it will be converted as octal even though it has been specified as a decimal. This commit forces the number to be interpreted as a decimal.

[ruby-core:81927] [Bug #13722] [Fix GH-1665]
Author: william william.mccumstie@outlook.com

git-svn-id: svn+ssh://ci.ruby-lang.org/ruby/trunk@59273 b2dd03c8-39d4-4d8f-98ff-823fe69b080e

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History

#1 - 07/06/2017 10:10 AM - wmccumstie (William McCumstie)

A PR containing a bug fix can be found at:
<https://github.com/ruby/ruby/pull/1665>

#2 - 07/06/2017 10:19 AM - shyouhei (Shyouhei Urabe)

I wonder if this is a bug or an intended behaviour.

#3 - 07/06/2017 10:48 AM - mjtko (Mark Titorenko)

shyouhei (Shyouhei Urabe) wrote:

I wonder if this is a bug or an intended behaviour.

I would argue that this is a bug. The test here -- https://github.com/ruby/ruby/blob/trunk/test/optparse/test_acceptable.rb#L115 -- also doesn't feel correct, as it's testing that 09 generates an OptionParser::InvalidArgument exception, though that only happens because 09 is not valid octal.

If the intention is for OptionParser::DecimalInteger to behave the same as Integer but disallow hex and binary values, then perhaps it would be better called OptionParser::OctalOrDecimalInteger. :-) As there is already a specific type OptionParser::OctalInteger, it suggests to me that OptionParser::DecimalInteger should be generating base-10 output only; generating base-8 output is confusing and, for me at least, violates the principle of least surprise.

#4 - 07/06/2017 10:56 AM - wmccumstie (William McCumstie)

I don't believe it would be intended behaviour. At very least it would be strange to specifically specify a Decimal only to have it converted as Octal.

Looking into to the unit tests (test/optparse/test_acceptable.rb:115), I would have expected the intended behaviour to raise OptionParser::InvalidArgument if anything.

#5 - 07/06/2017 11:10 AM - wmccumstie (William McCumstie)

From optparse.rb:

```
OptionParser comes with a few ready-to-use kinds of type
# coercion. They are:
#
# - Date -- Anything accepted by +Date.parse+
# - DateTime -- Anything accepted by +DateTime.parse+
# - Time -- Anything accepted by +Time.httpdate+ or +Time.parse+
# - URI -- Anything accepted by +URI.parse+
# - Shellwords -- Anything accepted by +Shellwords.shellwords+
# - String -- Any non-empty string
# - Integer -- Any integer. Will convert octal. (e.g. 124, -3, 040)
# - Float -- Any float. (e.g. 10, 3.14, -100E+13)
# - Numeric -- Any integer, float, or rational (1, 3.4, 1/3)
# - DecimalInteger -- Like +Integer+, but no octal format.
# - OctalInteger -- Like +Integer+, but no decimal format.
# - DecimalNumeric -- Decimal integer or float.
# - TrueClass -- Accepts '+, yes, true, -, no, false' and
# defaults as +true+
# - FalseClass -- Same as +TrueClass+, but defaults to +false+
# - Array -- Strings separated by ',' (e.g. 1,2,3)
# - Regexp -- Regular expressions. Also includes options.
```

DecimalInteger does not support octal format. So either it should convert as a decimal or throw an error.

#6 - 07/06/2017 11:49 AM - nobu (Nobuyoshi Nakada)

- Status changed from Open to Closed

Applied in changeset [trunk|r59273](https://github.com/ruby/ruby/commit/trunk|r59273).

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Author: william william.mccumstie@outlook.com

#7 - 07/06/2017 11:55 AM - nobu (Nobuyoshi Nakada)

- Description updated

Thank you, it's obviously a bug.

Files

ruby-op-octal-bug.rb	332 Bytes	07/06/2017	wmccumstie (William McCumstie)
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