Ruby master - Bug #9728

Regexp bug
04/11/2014 06:41 AM - sawa (Tsuyoshi Sawada)

| Status: | Closed |
| Priority: | Normal |
| Assignee: | |
| Target version: | Ruby 2.0 |
| Backport: | 2.0.0: DONE, 2.1: DONE |

Description
As reported in StackOverflow (http://stackoverflow.com/questions/23004527) (with a wrong expectation), the following regex pattern with the * operator does not match.

```
"ab" =~ /(?!^a).*b/
# => nil
```

When ? is used instead, it seems to match correctly:

```
"ab" =~ /(?!^a).?b/  
# => 1
```

According to the original reporter of the linked site, this does not happen in Ruby 1.9.3.

Associated revisions
Revision 485579e - 10/15/2014 03:05 PM - nagachika (Tomoyuki Chikanaga)
merge r47598 partially. extracted commits are as follows. [Bug #9728]
https://github.com/k-takata/Onigmo/commit/15ddec6d18e27fdcc1988236764e766fd5892ecf5
git-svn-id: svn+ssh://ci.ruby-lang.org/ruby/branches/ruby_2_1@47954 b2dd03c8-39d4-4d8f-98ff-823fe69b080e

Revision 47954 - 10/15/2014 03:05 PM - nagachika (Tomoyuki Chikanaga)
merge r47598 partially. extracted commits are as follows. [Bug #9728]
https://github.com/k-takata/Onigmo/commit/15ddec6d18e27fdcc1988236764e766fd5892ecf5

Revision 7e344b0b - 10/16/2014 07:35 AM - usa (Usaku NAKAMURA)

- regcomp.c, regexec.c: Optimization should be disabled not only for
  /(?<=x)/, but also for /(?!x)/.
  (merge r47598 partially. [Bug #9728])

Revision 47976 - 10/16/2014 07:35 AM - usa (Usaku NAKAMURA)

- regcomp.c, regexec.c: Optimization should be disabled not only for
  /(?<=x)/, but also for /(?!x)/.
  (merge r47598 partially. [Bug #9728])

History
#1 - 04/11/2014 10:21 AM - phasis68 (Heesob Park)
I found this issue is related with the ONIG_DONT_OPTIMIZE macro.

If I insert "#define ONIG_DONT_OPTIMIZE" in regint.h, the regexp works like Ruby 1.9.3.

before define:

C:\work\ruby-2.2.0-r45349>miniruby -ve 'p "ab"=~/(?!^a).*b/;'
ruby 2.2.0dev (2014-03-16 trunk 45349) [x64-mswin64_120]
nil

after define:

C:\work\ruby-2.2.0-r45349>miniruby -ve 'p "ab"=~/(?!^a).*b/;'
ruby 2.2.0dev (2014-03-16 trunk 45349) [x64-mswin64_120]
1
C:\work\ruby-2.2.0-r45349>miniruby -ve 'p "ab"=~/(?!^a).*b/;'  
1  
#2 - 09/11/2014 01:34 PM - k_takata (Ken Takata)  
This bug is fixed with the following Onigmo's commit:  
https://github.com/k-takata/Onigmo/commit/15ddec6d18e27fd7b1988236764e7661d5892edf5  
This fix is included in Onigmo 5.15.0.  

#3 - 09/23/2014 04:51 AM - k_takata (Ken Takata)  
- Status changed from Open to Closed  
Fixed with r47598.  

#4 - 09/24/2014 03:30 PM - usa (Usaku NAKAMURA)  
- Backport changed from 2.0.0: UNKNOWN, 2.1: UNKNOWN to 2.0.0: REQUIRED, 2.1: REQUIRED  

#5 - 10/15/2014 03:07 PM - nagachika (Tomoyuki Chikanaga)  
- Backport changed from 2.0.0: REQUIRED, 2.1: REQUIRED to 2.0.0: REQUIRED, 2.1: DONE  
partially backport r47598 into ruby_2_1 branch at r47954.  

#6 - 10/16/2014 07:36 AM - usa (Usaku NAKAMURA)  
- Backport changed from 2.0.0: REQUIRED, 2.1: DONE to 2.0.0: DONE, 2.1: DONE  
Backported into ruby_2_0_0 at r47976.