Ruby master - Bug #3459

test_regexp.rb Segmentation fault on x64-mswin64

06/21/2010 08:41 PM - beuniv (shintaro kuwamoto)

<table>
<thead>
<tr>
<th>Status:</th>
<th>Closed</th>
</tr>
</thead>
<tbody>
<tr>
<td>Priority:</td>
<td>Normal</td>
</tr>
<tr>
<td>Assignee:</td>
<td></td>
</tr>
<tr>
<td>Target version:</td>
<td>2.0.0</td>
</tr>
<tr>
<td>ruby -v:</td>
<td>ruby 1.9.3dev (2010-06-20 trunk 28366) [x64-mswin64_90]</td>
</tr>
</tbody>
</table>

Description

```
=begin
x64-mswin64 trunk\test_regexp.rb\Segmentation fault \\

根本的な原因は/(?>\g)*$/のメモリ確保に失敗するためのようです。

Segfault自体は以下の修正で出なくなります。

Z:\ruby-trunk>svn diff re.c
Index: re.c
===================================================================
--- re.c (リビジョン 28367)
+++ re.c (作業コピー)
@@ -1391,7 +1391,7 @@
 else {
 onig_errmsg_buffer err = "";
 onig_error_code_to_str((UChar*)err, (int)result);

- rb_reg_raise(REGEXP_SRC_PTR(re), REGEXP_SRC_LEN(re), err, 0);
+ rb_reg_raise(REGEXP_SRC_PTR(re), REGEXP_SRC_LEN(re), err, re);
 }   }
```

修正前のエラーログと、修正後のエラーログです。

Z:\ruby-trunk\build>nmake test-all TESTS=ruby/test_regexp.rb

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```
..\ruby.exe -I..\lib -I"..\ext/x64-mswin64_90" *..\tool\runruby.rb" --extout
```

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-- Ruby level backtrace information ----------------------------------------
Z:/ruby-trunk/lib/minitest/unit.rb:492:in block in autorun'
Z:/ruby-trunk/lib/minitest/unit.rb:594:in run'
Z:/ruby-trunk/lib/minitest/unit.rb:634:in run_test_suites'
Z:/ruby-trunk/lib/minitest/unit.rb:634:in each'
Z:/ruby-trunk/lib/minitest/unit.rb:635:in block in run_test_suites'
Z:/ruby-trunk/lib/minitest/unit.rb:635:in each'
Z:/ruby-trunk/lib/minitest/unit.rb:641:in block (2 levels) in run_test_suites'
Z:/ruby-trunk/lib/minitest/unit.rb:680:in run'
Z:/ruby-trunk/test/ruby/test-regexp.rb:564:in test_exec'
Z:/ruby-trunk/test/ruby/test-regexp.rb:493:in check'
Z:/ruby-trunk/test/ruby/test-regexp.rb:495:in each'
Z:/ruby-trunk/lib/minitest/unit.rb:176:in assert_match'
Z:/ruby-trunk/lib/minitest/unit.rb:176:in =~'

[NOTE]
You may have encountered a bug in the Ruby interpreter or extension libraries. Bug reports are welcome. For details: http://www.ruby-lang.org/bugreport.html

This application has requested the Runtime to terminate it in an unusual way. Please contact the application's support team for more information.
NMAKE : fatal error U1077: '
Stop.

Z:\ruby-trunk\build>nmake test-all TESTS=ruby/test_regexp.rb

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.
...t=".ext" -- ../../../tool/runruby.rb" --extout

Finished in 3.853200 seconds.

1) Failure:
test_dup_warn(TestRegexp) [Z:/ruby-trunk/test/ruby/test-regexp.rb:822]:
Expected /A/z/ to match "internal:gem_prelude:45: warning: assigned but unused
d variable - paths\internal:gem_prelude:162: warning: assigned but unused vari
able - path\internal:gem_prelude:172: warning: assigned but unused variable

• path\internal:gem_prelude:167: warning: assigned but unused variable - inst_al
ed_path\internal:gem_prelude:197: warning: assigned but unused variable - requir
ement\internal:gem_prelude:197: warning: assigned but unused variable - versio
\internal:gem_prelude:200: warning: assigned but unused variable - loaded_version\i
ternal:gem_prelude:206: warning: assigned but unused variable
• required_version\internal:gem_prelude:218: warning: assigned but unused vari
able - numbers\internal:gem_prelude:232: warning: assigned but unused variable - g
em_name\internal:gem_prelude:233: warning: assigned but unused variable

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new_version

internal:gem_prelude:234: warning: assigned but unused variable - current_version

internal:gem_prelude:226: warning: assigned but unused variable - gems_directory

internal:gem_prelude:247: warning: assigned but unused variable - file

internal:gem_prelude:248: warning: assigned but unused variable - gems_directory

internal:gem_prelude:244: warning: assigned but unused variable - file

internal:gem_prelude:248: warning: assigned but unused variable - paths

internal:gem_prelude:117: warning: assigned but unused variable - verbose

internal:gem_prelude:117: warning: assigned but unused variable - debug

internal:lib/rubygems/defaults:54: warning: assigned but unused variable - exe

-:2: warning: assigned but unused variable - x

2) Error:
   test_exec(TestRegexp):
   RegexpError: failed to allocate memory: /(?>\g)*$/
   Z:/ruby-trunk/test/ruby/test_regex.rb:495:in block in check'
   Z:/ruby-trunk/test/ruby/test_regex.rb:493:in each'
   Z:/ruby-trunk/test/ruby/test_regex.rb:493:in check'
   Z:/ruby-trunk/test/ruby/test_regex.rb:564:intest_exec'

66 tests, 999 assertions, 1 failures, 1 errors, 0 skips

Test run options: --seed 24382
NMAKE: fatal error U1077: `\ruby.exe': リターンコード '0x1'
Stop.
=end

Related issues:
Related to Ruby master - Bug #3742: failed to allocate memory: ^/()/{g<1>)*... Closed 08/25/2010
Related to Backport192 - Backport #3743: Segmentation fault on TestRegexp#test_merge... Closed 08/25/2010

Associated revisions
Revision d078f1f578402c2ad6b9a8f9068dfc88584ed99 - 08/23/2010 03:32 AM - naruse (Yui NARUSE)
   • re.c (rb_reg_search): fix: 4th argument should be regexp object. patched by shintaro kwamoto [ruby-dev:41667] #3459
git-svn-id: svn+ssh://ci.ruby-lang.org/ruby/trunk@29074 b2dd03c8-39d4-4d8f-98ff-823fe69b080e

Revision 29074 - 08/23/2010 03:32 AM - naruse (Yui NARUSE)
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Revision 9f3d470e8e46c14d8b4599c2c403c26a81a1f - 10/02/2010 11:15 AM - yugui (Yuki Sonoda)
merges r29074 from trunk into ruby_1_9_2.
   • re.c (rb_reg_search): fix: 4th argument should be regexp object. patched by shintaro kwamoto [ruby-dev:41667] #3459

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History

#1 - 06/28/2010 02:41 AM - beuniv (shintaro kuwamoto)

=begin
ruby -e"!/ =~ ''"
メモリ確保失敗します。
ruby -e"!/ =~ ' '"
なら何事もなく通ります。
=end

#2 - 08/23/2010 12:37 PM - naruse (Yui NARUSE)

- Status changed from Open to Closed
- % Done changed from 0 to 100

=begin
This issue was solved with changeset r29074.
shintaro, thank you for reporting this issue.
Your contribution to Ruby is greatly appreciated.
May Ruby be with you.
=end