Ruby trunk - Bug #7084

RubyVM::InstructionSequence.compile("1+"*10000 + "1") causes SystemStackError or Segmentation Fault

09/29/2012 06:27 PM - mrkn (Kenta Murata)

Status:	Closed		
Priority:	Normal		
Assignee:	ko1 (Koichi Sasada)		
Target version:	2.0.0		
ruby -v:	ruby 2.0.0dev (2012-09-29 trunk 37053) [x86_64-darwin12.1.0]	**Backport:**	

Description

□□□□□□ ulimit -s □□□□□□ stack level too deep □ Segmentation Fault □□□□□□□□□□□□□□□□

```
$ .prefix/bin/ruby -v
ruby 2.0.0dev (2012-09-29 trunk 37053) [x86_64-darwin12.1.0]
$ ulimit -s
8192
$ .prefix/bin/ruby -e 'p RubyVM::InstructionSequence.compile("1+"*10000+"1")'
-e:1: stack level too deep (SystemStackError)
$ ulimit -s 32768
$ .prefix/bin/ruby -e 'p RubyVM::InstructionSequence.compile("1+"*10000+"1")'
-e:1: [BUG] Segmentation fault
ruby 2.0.0dev (2012-09-29 trunk 37053) [x86_64-darwin12.1.0]

-- Control frame information -----------------------------------------------
c:0003 p:---- s:0009 e:000008 CFUNC  :compile
c:0002 p:0028 s:0005 e:000bc8 EVAL   -e:1 [FINISH]
c:0001 p:0000 s:0002 e:0020e8 TOP    [FINISH]

-e:1:in <main>'
-e:1:incompile'

-- C level backtrace information -------------------------------------------

See Crash Report log file under ~/Library/Logs/CrashReporter or
/Library/Logs/CrashReporter, for the more detail of.

-- Other runtime information -----------------------------------------------
```

- Loaded script: -e
- Loaded features:

Associated revisions

Revision 54c17dc8 - 10/03/2012 06:33 AM - nobu (Nobuyoshi Nakada)

thread_pthread.c: init stack with ulimit

- thread_pthread.c (ruby_init_stack): use getrlimit() for the main thread on Mac OS X, since pthread_get_stack{addr,size}_np() and return the default value always, but not the ulimit value. [ruby-dev:46174] [Bug #7084]

git-svn-id: svn+ssh://ci.ruby-lang.org/ruby/trunk@37072 b2dd03c8-39d4-4d8f-98ff-823fe69b080e

Revision 37072 - 10/03/2012 06:33 AM - nobu (Nobuyoshi Nakada)

thread_pthread.c: init stack with ulimit

- thread_pthread.c (ruby_init_stack): use getrlimit() for the main thread on Mac OS X, since pthread_get_stack{addr,size}_np() and return the default value always, but not the ulimit value. [ruby-dev:46174] [Bug #7084]

Revision 37072 - 10/03/2012 06:33 AM - nobu (Nobuyoshi Nakada)

thread_pthread.c: init stack with ulimit

- thread_pthread.c (ruby_init_stack): use getrlimit() for the main thread on Mac OS X, since pthread_get_stack{addr,size}_np() and return the default value always, but not the ulimit value. [ruby-dev:46174] [Bug #7084]

Revision 37072 - 10/03/2012 06:33 AM - nobu (Nobuyoshi Nakada)

thread_pthread.c: init stack with ulimit

- thread_pthread.c (ruby_init_stack): use getrlimit() for the main thread on Mac OS X, since pthread_get_stack{addr,size}_np() and return the default value always, but not the ulimit value. [ruby-dev:46174] [Bug #7084]

Revision 37072 - 10/03/2012 06:33 AM - nobu (Nobuyoshi Nakada)

thread_pthread.c: init stack with ulimit

- thread_pthread.c (ruby_init_stack): use getrlimit() for the main thread on Mac OS X, since pthread_get_stack{addr,size}_np() and return the default value always, but not the ulimit value. [ruby-dev:46174] [Bug #7084]

Revision 37072 - 10/03/2012 06:33 AM - nobu (Nobuyoshi Nakada)

thread_pthread.c: init stack with ulimit

- thread_pthread.c (ruby_init_stack): use getrlimit() for the main thread on Mac OS X, since pthread_get_stack{addr,size}_np() and return the default value always, but not the ulimit value. [ruby-dev:46174] [Bug #7084]

Revision 37072 - 10/03/2012 06:33 AM - nobu (Nobuyoshi Nakada)

thread_pthread.c: init stack with ulimit

- thread_pthread.c (ruby_init_stack): use getrlimit() for the main thread on Mac OS X, since pthread_get_stack{addr,size}_np() and return the default value always, but not the ulimit value. [ruby-dev:46174] [Bug #7084]

Revision fab7e661 - 10/04/2012 02:43 AM - nobu (Nobuyoshi Nakada)

thread_pthread.c: precise stack size

- thread_pthread.c (ruby_init_stack): round stack limit to page size boundary to calculate stack size more precisely. [ruby-dev:46174] [Bug #7084]

git-svn-id: svn+ssh://ci.ruby-lang.org/ruby/trunk@37080 b2dd03c8-39d4-4d8f-98ff-823fe69b080e

Revision 37080 - 10/04/2012 02:43 AM - nobu (Nobuyoshi Nakada)

thread_pthread.c: precise stack size

- thread_pthread.c (ruby_init_stack): round stack limit to page size boundary to calculate stack size more precisely. [ruby-dev:46174] [Bug #7084]

Revision 37080 - 10/04/2012 02:43 AM - nobu (Nobuyoshi Nakada)

thread_pthread.c: precise stack size

- thread_pthread.c (ruby_init_stack): round stack limit to page size boundary to calculate stack size more precisely. [ruby-dev:46174] [Bug #7084]

Revision 37080 - 10/04/2012 02:43 AM - nobu (Nobuyoshi Nakada)

thread_pthread.c: precise stack size

- thread_pthread.c (ruby_init_stack): round stack limit to page size boundary to calculate stack size more precisely. [ruby-dev:46174] [Bug #7084]

Revision 37080 - 10/04/2012 02:43 AM - nobu (Nobuyoshi Nakada)

thread_pthread.c: precise stack size

- thread_pthread.c (ruby_init_stack): round stack limit to page size boundary to calculate stack size more precisely. [ruby-dev:46174] [Bug #7084]

Revision 37080 - 10/04/2012 02:43 AM - nobu (Nobuyoshi Nakada)

thread_pthread.c: precise stack size

- thread_pthread.c (ruby_init_stack): round stack limit to page size boundary to calculate stack size more precisely. [ruby-dev:46174] [Bug #7084]

Revision 37080 - 10/04/2012 02:43 AM - nobu (Nobuyoshi Nakada)

thread_pthread.c: precise stack size

- thread_pthread.c (ruby_init_stack): round stack limit to page size boundary to calculate stack size more precisely. [ruby-dev:46174] [Bug #7084]

History

#1 - 09/29/2012 06:29 PM - mrkn (Kenta Murata)

gdb □□□□□□□□□□□□□ gist □□□□□□□ulimit -s 8192 □□□□□□□□□□□□
https://gist.github.com/3803540

#2 - 09/29/2012 07:53 PM - ko1 (Koichi Sasada)

(2012/09/29 18:27), mrkn (Kenta Murata) wrote:

> □□□□□□ ulimit -s □□□□□□ stack level too deep □ Segmentation Fault □□□□□□□□□□□□□□□

□□□
□□□...□

□□□
□□□

--
// SASADA Koichi at atdot dot net

#3 - 09/29/2012 11:11 PM - mrkn (Kenta Murata)

"1+"*10000 + "1" □□YAPC::Asia □ LT □□□□□□□□□□

ulimit -s □□□□□□□□ SEGV □□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□

#4 - 09/30/2012 08:23 PM - ko1 (Koichi Sasada)

(2012/09/29 23:11), mrkn (Kenta Murata) wrote:

> ulimit -s □□□□□□□□ SEGV □□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□

□ulimit -s □□□□□□□□ SEGV □□□□□□□□□□□□□□□□□□□□□□□
□□□

--
// SASADA Koichi at atdot dot net

#5 - 10/03/2012 03:33 PM - nobu (Nobuyoshi Nakada)

- Status changed from Open to Closed

- % Done changed from 0 to 100

This issue was solved with changeset r37072.
Kenta, thank you for reporting this issue.
Your contribution to Ruby is greatly appreciated.
May Ruby be with you.

---

thread_pthread.c: init stack with ulimit

- thread_pthread.c (ruby_init_stack): use getrlimit() for the main thread on Mac OS X, since pthread_get_stack{addr,size}_np() and return the default value always, but not the ulimit value. [ruby-dev:46174] [Bug #7084]

#6 - 10/03/2012 06:38 PM - ko1 (Koichi Sasada)

□□□□□r37072 □□□□□□□□□□□□

#7 - 10/04/2012 02:22 AM - mrkn (Kenta Murata)

- Status changed from Closed to Open

□□□□□□□□□ulimit -s 32768 □□□□□□□□□ SystemStackError □□□□□□□□□□
ulimit -s 4096 □□□□ Segmentation Fault □□□□□□□□□□

□□□□□□□□□□□□□□□□□□□□□□□□
https://gist.github.com/3828296
□□ gist □□□□ 1.patch □□□□□□□□□□□□□□□□□□

1.log □□□□□□□□□□ iseq_compile_each □□□□□□□□ type □□□□□□□□□□□□□□□□□□□□

□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□1□□ type □□□□□□□6928□□□□□□□□□□□□□□□□□□□□□□□□□□□□
ruby_stack_overflowed_p □□□

□□□□iseq_compile_each □□□ switch □□□□□□□□□□□□□□□□□□□□□□□□□
https://gist.github.com/3828416

iseq_compile_each □□□□□□□□□□□□□□560□□□

□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□

#8 - 10/04/2012 11:43 AM - nobu (Nobuyoshi Nakada)

- Status changed from Open to Closed

This issue was solved with changeset r37080.
Kenta, thank you for reporting this issue.
Your contribution to Ruby is greatly appreciated.
May Ruby be with you.

---

thread_pthread.c: precise stack size

- thread_pthread.c (ruby_init_stack): round stack limit to page size boundary to calculate stack size more precisely. [ruby-dev:46174] [Bug #7084]