

## Ruby master - Bug #5380

### gc params cause Segmentation fault

09/29/2011 11:37 PM - saberma (saber ma)

<b>Status:</b>	Closed	
<b>Priority:</b>	Normal	
<b>Assignee:</b>	nagachika (Tomoyuki Chikanaga)	
<b>Target version:</b>	1.9.3	
<b>ruby -v:</b>	ruby 1.9.3dev (2011-09-23 revision 33323) [i686-linux]	<b>Backport:</b>

#### Description

ruby1.9.3-rc1 or ruby1.9.3-preview1, set the gc params:

```
export RUBY_GC_MALLOC_LIMIT=60000000
```

```
export RUBY_HEAP_MIN_SLOTS=100000
```

```
ruby -e 'puts 1'
```

```
malloc_limit=60000000 (8000000)
```

```
heap_min_slots=100000 (10000)
```

```
1
```

```
*** glibc detected *** ruby: free(): invalid pointer: 0x09699944 ***
```

```
===== Backtrace: =====
```

```
/lib/tls/i686/cmov/libc.so.6(+0x6b591)[0xe9f591]
```

```
/lib/tls/i686/cmov/libc.so.6(+0x6cde8)[0xea0de8]
```

```
/lib/tls/i686/cmov/libc.so.6(cfree+0x6d)[0xea3ecd]
```

```
/home/saberma/.rvm/rubies/ruby-1.9.3-rc1/lib/libruby.so.1.9(ruby_xfree+0x21)[0x17b191]
```

```
/home/saberma/.rvm/rubies/ruby-1.9.3-rc1/lib/libruby.so.1.9(st_free_table+0x35)[0x225de5]
```

```
/home/saberma/.rvm/rubies/ruby-1.9.3-rc1/lib/libruby.so.1.9(+0x6b435)[0x17b435]
```

```
/home/saberma/.rvm/rubies/ruby-1.9.3-rc1/lib/libruby.so.1.9(+0x6d33c)[0x17d33c]
```

```
/home/saberma/.rvm/rubies/ruby-1.9.3-rc1/lib/libruby.so.1.9(ruby_vm_destruct+0x79)[0x27cfb9]
```

```
/home/saberma/.rvm/rubies/ruby-1.9.3-rc1/lib/libruby.so.1.9(ruby_cleanup+0x20d)[0x16940d]
```

```
/home/saberma/.rvm/rubies/ruby-1.9.3-rc1/lib/libruby.so.1.9(ruby_run_node+0x3d)[0x16960d]
```

```
ruby[0x80487d8]
```

```
/lib/tls/i686/cmov/libc.so.6(__libc_start_main+0xe6)[0xe4abd6]
```

```
ruby[0x80486d1]
```

```
===== Memory map: =====
```

```
00110000-00303000 r-xp 00000000 08:01 5377589 /home/saberma/.rvm/rubies/ruby-1.9.3-rc1/lib/libruby.so.1.9.1
```

```
00303000-00306000 r--p 001f2000 08:01 5377589 /home/saberma/.rvm/rubies/ruby-1.9.3-rc1/lib/libruby.so.1.9.1
```

```
00306000-00308000 rw-p 001f5000 08:01 5377589 /home/saberma/.rvm/rubies/ruby-1.9.3-rc1/lib/libruby.so.1.9.1
```

```
00308000-00318000 rw-p 00000000 00:00 0
```

```
00318000-0031a000 r-xp 00000000 08:01 11272255 /lib/tls/i686/cmov/libdl-2.11.1.so
```

```
0031a000-0031b000 r--p 00001000 08:01 11272255 /lib/tls/i686/cmov/libdl-2.11.1.so
```

```
0031b000-0031c000 rw-p 00002000 08:01 11272255 /lib/tls/i686/cmov/libdl-2.11.1.so
```

```
00355000-00370000 r-xp 00000000 08:01 11276218 /lib/ld-2.11.1.so
```

```
00370000-00371000 r--p 0001a000 08:01 11276218 /lib/ld-2.11.1.so
```

```
00371000-00372000 rw-p 0001b000 08:01 11276218 /lib/ld-2.11.1.so
```

```
0038c000-0038e000 r-xp 00000000 08:01 7216634
```

```
/home/saberma/.rvm/rubies/ruby-1.9.3-rc1/lib/ruby/1.9.1/i686-linux/enc/encdb.so
```

```
0038e000-0038f000 r--p 00001000 08:01 7216634
```

```
/home/saberma/.rvm/rubies/ruby-1.9.3-rc1/lib/ruby/1.9.1/i686-linux/enc/encdb.so
```

```
0038f000-00390000 rw-p 00002000 08:01 7216634
```

```
/home/saberma/.rvm/rubies/ruby-1.9.3-rc1/lib/ruby/1.9.1/i686-linux/enc/encdb.so
```

```
00514000-00516000 r-xp 00000000 08:01 7349987
```

```
/home/saberma/.rvm/rubies/ruby-1.9.3-rc1/lib/ruby/1.9.1/i686-linux/enc/trans/transdb.so
```

```
00516000-00517000 r--p 00001000 08:01 7349987
```

```
/home/saberma/.rvm/rubies/ruby-1.9.3-rc1/lib/ruby/1.9.1/i686-linux/enc/trans/transdb.so
```

```
00517000-00518000 rw-p 00002000 08:01 7349987
```

```
/home/saberma/.rvm/rubies/ruby-1.9.3-rc1/lib/ruby/1.9.1/i686-linux/enc/trans/transdb.so
```

```
0077c000-0077d000 r-xp 00000000 00:00 0 [vdso]
```

```
00843000-00858000 r-xp 00000000 08:01 11272349 /lib/tls/i686/cmov/libpthread-2.11.1.so
```

```
00858000-00859000 r--p 00014000 08:01 11272349 /lib/tls/i686/cmov/libpthread-2.11.1.so
```

```
00859000-0085a000 rw-p 00015000 08:01 11272349 /lib/tls/i686/cmov/libpthread-2.11.1.so
```

```
0085a000-0085c000 rw-p 00000000 00:00 0
```

```

00998000-009bc000 r-xp 00000000 08:01 11272290 /lib/tls/i686/cmox/libm-2.11.1.so
009bc000-009bd000 r--p 00023000 08:01 11272290 /lib/tls/i686/cmox/libm-2.11.1.so
009bd000-009be000 rw-p 00024000 08:01 11272290 /lib/tls/i686/cmox/libm-2.11.1.so
00aaf000-00ab6000 r-xp 00000000 08:01 11272355 /lib/tls/i686/cmox/librt-2.11.1.so
00ab6000-00ab7000 r--p 00006000 08:01 11272355 /lib/tls/i686/cmox/librt-2.11.1.so
00ab7000-00ab8000 rw-p 00007000 08:01 11272355 /lib/tls/i686/cmox/librt-2.11.1.so
00bb6000-00bd3000 r-xp 00000000 08:01 11272275 /lib/libgcc_s.so.1
00bd3000-00bd4000 r--p 0001c000 08:01 11272275 /lib/libgcc_s.so.1
00bd4000-00bd5000 rw-p 0001d000 08:01 11272275 /lib/libgcc_s.so.1
00df1000-00dfa000 r-xp 00000000 08:01 11272249 /lib/tls/i686/cmox/libcrypt-2.11.1.so
00dfa000-00dfb000 r--p 00008000 08:01 11272249 /lib/tls/i686/cmox/libcrypt-2.11.1.so
00dfb000-00dfc000 rw-p 00009000 08:01 11272249 /lib/tls/i686/cmox/libcrypt-2.11.1.so
00dfc000-00e23000 rw-p 00000000 00:00 0
00e34000-00f87000 r-xp 00000000 08:01 11272241 /lib/tls/i686/cmox/libc-2.11.1.so
00f87000-00f88000 ---p 00153000 08:01 11272241 /lib/tls/i686/cmox/libc-2.11.1.so
00f88000-00f8a000 r--p 00153000 08:01 11272241 /lib/tls/i686/cmox/libc-2.11.1.so
00f8a000-00f8b000 rw-p 00155000 08:01 11272241 /lib/tls/i686/cmox/libc-2.11.1.so
00f8b000-00f8e000 rw-p 00000000 00:00 0
08048000-08049000 r-xp 00000000 08:01 5258895 /home/saberma/.rvm/rubies/ruby-1.9.3-rc1/bin/ruby
08049000-0804a000 r--p 00000000 08:01 5258895 /home/saberma/.rvm/rubies/ruby-1.9.3-rc1/bin/ruby
0804a000-0804b000 rw-p 00001000 08:01 5258895 /home/saberma/.rvm/rubies/ruby-1.9.3-rc1/bin/ruby
09381000-096a2000 rw-p 00000000 00:00 0 [heap]
b7600000-b7621000 rw-p 00000000 00:00 0
b7621000-b7700000 ---p 00000000 00:00 0
b77c4000-b7803000 r--p 00000000 08:01 2891665 /usr/lib/locale/en_US.utf8/LC_CTYPE
b7803000-b7806000 rw-p 00000000 00:00 0
b780b000-b780c000 rw-p 00000000 00:00 0
b780c000-b780d000 ---p 00000000 00:00 0
b780d000-b7810000 rw-p 00000000 00:00 0
b7810000-b7817000 r--s 00000000 08:01 2884807 /usr/lib/gconv/gconv-modules.cache
b7817000-b7819000 rw-p 00000000 00:00 0
bfe69000-bfe7f000 rw-p 00000000 00:00 0 [stack]
[1] 17007 abort ruby -e 'puts 1'

```

the irb command raise the same error.

```

irb
malloc_limit=60000000 (8000000)
heap_min_slots=100000 (10000)
/home/saberma/.rvm/rubies/ruby-1.9.3-rc1/lib/ruby/site_ruby/1.9.1/rubygems.rb:392: [BUG] Segmentation fault
ruby 1.9.3dev (2011-09-23 revision 33323) [i686-linux]

```

-- Control frame information -----

```

c:0025 p:0025 s:0094 b:0094 l:000093 d:000093 METHOD
/home/saberma/.rvm/rubies/ruby-1.9.3-rc1/lib/ruby/site_ruby/1.9.1/rubygems.rb:392
c:0024 p:0011 s:0091 b:0091 l:000090 d:000090 METHOD
/home/saberma/.rvm/rubies/ruby-1.9.3-rc1/lib/ruby/site_ruby/1.9.1/rubygems.rb:413
c:0023 p:0030 s:0088 b:0088 l:000087 d:000087 METHOD
/home/saberma/.rvm/rubies/ruby-1.9.3-rc1/lib/ruby/site_ruby/1.9.1/rubygems/specification.rb:381
c:0022 p:0033 s:0085 b:0085 l:000084 d:000084 METHOD
/home/saberma/.rvm/rubies/ruby-1.9.3-rc1/lib/ruby/site_ruby/1.9.1/rubygems/specification.rb:267
c:0021 p:0036 s:0081 b:0081 l:000080 d:000080 METHOD
/home/saberma/.rvm/rubies/ruby-1.9.3-rc1/lib/ruby/site_ruby/1.9.1/rubygems/specification.rb:409
c:0020 p:---- s:0078 b:0078 l:000077 d:000077 FINISH
c:0019 p:---- s:0076 b:0076 l:000075 d:000075 CFUNC :find
c:0018 p:0011 s:0073 b:0073 l:000072 d:000072 METHOD
/home/saberma/.rvm/rubies/ruby-1.9.3-rc1/lib/ruby/site_ruby/1.9.1/rubygems/specification.rb:441
c:0017 p:0021 s:0069 b:0069 l:000068 d:000068 METHOD
/home/saberma/.rvm/rubies/ruby-1.9.3-rc1/lib/ruby/site_ruby/1.9.1/rubygems.rb:203
c:0016 p:0040 s:0064 b:0064 l:000049 d:000063 BLOCK /home/saberma/.rvm/rubies/ruby-1.9.3-rc1/lib/ruby/1.9.1/irb/locale.rb:150
c:0015 p:0073 s:0061 b:0061 l:000054 d:000060 BLOCK /home/saberma/.rvm/rubies/ruby-1.9.3-rc1/lib/ruby/1.9.1/irb/locale.rb:158
c:0014 p:0081 s:0058 b:0058 l:000057 d:000057 METHOD /home/saberma/.rvm/rubies/ruby-1.9.3-rc1/lib/ruby/1.9.1/irb/locale.rb:167
c:0013 p:0036 s:0055 b:0055 l:000054 d:000054 METHOD /home/saberma/.rvm/rubies/ruby-1.9.3-rc1/lib/ruby/1.9.1/irb/locale.rb:157
c:0012 p:0015 s:0050 b:0050 l:000049 d:000049 METHOD /home/saberma/.rvm/rubies/ruby-1.9.3-rc1/lib/ruby/1.9.1/irb/locale.rb:145
c:0011 p:0108 s:0044 b:0044 l:000043 d:000043 METHOD /home/saberma/.rvm/rubies/ruby-1.9.3-rc1/lib/ruby/1.9.1/irb/locale.rb:124
c:0010 p:0016 s:0037 b:0037 l:000036 d:000036 METHOD /home/saberma/.rvm/rubies/ruby-1.9.3-rc1/lib/ruby/1.9.1/irb/locale.rb:108
c:0009 p:0177 s:0031 b:0031 l:000030 d:000030 METHOD /home/saberma/.rvm/rubies/ruby-1.9.3-rc1/lib/ruby/1.9.1/irb/locale.rb:32

```

```
c:0008 p:---- s:0026 b:0026 l:000025 d:000025 FINISH
c:0007 p:---- s:0024 b:0024 l:000023 d:000023 CFUNC :new
c:0006 p:0649 s:0021 b:0019 l:000018 d:000018 METHOD /home/saberma/.rvm/rubies/ruby-1.9.3-rc1/lib/ruby/1.9.1/irb/init.rb:114
c:0005 p:0019 s:0015 b:0015 l:000014 d:000014 METHOD /home/saberma/.rvm/rubies/ruby-1.9.3-rc1/lib/ruby/1.9.1/irb/init.rb:16
c:0004 p:0047 s:0011 b:0011 l:000010 d:000010 METHOD /home/saberma/.rvm/rubies/ruby-1.9.3-rc1/lib/ruby/1.9.1/irb.rb:53
c:0003 p:0142 s:0006 b:0006 l:000014 d:00029c EVAL /home/saberma/.rvm/rubies/ruby-1.9.3-rc1/bin/irb:16
c:0002 p:---- s:0004 b:0004 l:000003 d:000003 FINISH
c:0001 p:0000 s:0002 b:0002 l:000014 d:000014 TOP
```

-- Ruby level backtrace information -----

```
/home/saberma/.rvm/rubies/ruby-1.9.3-rc1/bin/irb:16:in <main>'
/home/saberma/.rvm/rubies/ruby-1.9.3-rc1/lib/ruby/1.9.1/irb.rb:53:in start'
/home/saberma/.rvm/rubies/ruby-1.9.3-rc1/lib/ruby/1.9.1/irb/init.rb:16:in setup'
/home/saberma/.rvm/rubies/ruby-1.9.3-rc1/lib/ruby/1.9.1/irb/init.rb:114:in init_config'
/home/saberma/.rvm/rubies/ruby-1.9.3-rc1/lib/ruby/1.9.1/irb/init.rb:114:in new'
/home/saberma/.rvm/rubies/ruby-1.9.3-rc1/lib/ruby/1.9.1/irb/locale.rb:32:in initialize'
/home/saberma/.rvm/rubies/ruby-1.9.3-rc1/lib/ruby/1.9.1/irb/locale.rb:108:in load'
/home/saberma/.rvm/rubies/ruby-1.9.3-rc1/lib/ruby/1.9.1/irb/locale.rb:124:in find'
/home/saberma/.rvm/rubies/ruby-1.9.3-rc1/lib/ruby/1.9.1/irb/locale.rb:145:in search_file'
/home/saberma/.rvm/rubies/ruby-1.9.3-rc1/lib/ruby/1.9.1/irb/locale.rb:157:in each_localized_path'
/home/saberma/.rvm/rubies/ruby-1.9.3-rc1/lib/ruby/1.9.1/irb/locale.rb:167:in each_sublocale'
/home/saberma/.rvm/rubies/ruby-1.9.3-rc1/lib/ruby/1.9.1/irb/locale.rb:158:in block in each_localized_path'
/home/saberma/.rvm/rubies/ruby-1.9.3-rc1/lib/ruby/1.9.1/irb/locale.rb:150:in block in search_file'
/home/saberma/.rvm/rubies/ruby-1.9.3-rc1/lib/ruby/site_ruby/1.9.1/rubygems.rb:203:in try_activate'
/home/saberma/.rvm/rubies/ruby-1.9.3-rc1/lib/ruby/site_ruby/1.9.1/rubygems/specification.rb:441:in find_by_path'
/home/saberma/.rvm/rubies/ruby-1.9.3-rc1/lib/ruby/site_ruby/1.9.1/rubygems/specification.rb:441:in find'
/home/saberma/.rvm/rubies/ruby-1.9.3-rc1/lib/ruby/site_ruby/1.9.1/rubygems/specification.rb:409:in each'
/home/saberma/.rvm/rubies/ruby-1.9.3-rc1/lib/ruby/site_ruby/1.9.1/rubygems/specification.rb:267:in all'
/home/saberma/.rvm/rubies/ruby-1.9.3-rc1/lib/ruby/site_ruby/1.9.1/rubygems/specification.rb:381:in dirs'
/home/saberma/.rvm/rubies/ruby-1.9.3-rc1/lib/ruby/site_ruby/1.9.1/rubygems.rb:413:in path'
/home/saberma/.rvm/rubies/ruby-1.9.3-rc1/lib/ruby/site_ruby/1.9.1/rubygems.rb:392:in `paths'
```

-- C level backtrace information -----

```
/home/saberma/.rvm/rubies/ruby-1.9.3-rc1/lib/libruby.so.1.9(+0x184253) [0x294253] vm_dump.c:796
/home/saberma/.rvm/rubies/ruby-1.9.3-rc1/lib/libruby.so.1.9(+0x55b57) [0x165b57] error.c:258
/home/saberma/.rvm/rubies/ruby-1.9.3-rc1/lib/libruby.so.1.9(rb_bug+0x49) [0x165c59] error.c:277
/home/saberma/.rvm/rubies/ruby-1.9.3-rc1/lib/libruby.so.1.9(+0x10d93c) [0x21d93c] signal.c:609
[0xa15410]
/home/saberma/.rvm/rubies/ruby-1.9.3-rc1/lib/libruby.so.1.9(+0x6f88c) [0x17f88c] gc.c:2212
/home/saberma/.rvm/rubies/ruby-1.9.3-rc1/lib/libruby.so.1.9(+0x6fcdf) [0x17fcdf] gc.c:694
/home/saberma/.rvm/rubies/ruby-1.9.3-rc1/lib/libruby.so.1.9(rb_str_buf_new+0xc7) [0x22fb17] string.c:744
/home/saberma/.rvm/rubies/ruby-1.9.3-rc1/lib/libruby.so.1.9(rb_enc_vsprintf+0x37) [0x225447] sprintf.c:1170
/home/saberma/.rvm/rubies/ruby-1.9.3-rc1/lib/libruby.so.1.9(rb_vsprintf+0x2c) [0x2254fc] sprintf.c:1199
/home/saberma/.rvm/rubies/ruby-1.9.3-rc1/lib/libruby.so.1.9(rb_sprintf+0x24) [0x225534] sprintf.c:1209
/home/saberma/.rvm/rubies/ruby-1.9.3-rc1/lib/libruby.so.1.9(+0x15ce47) [0x26ce47] compile.c:4683
/home/saberma/.rvm/rubies/ruby-1.9.3-rc1/lib/libruby.so.1.9(rb_iseq_compile_node+0x70a) [0x27306a] compile.c:487
/home/saberma/.rvm/rubies/ruby-1.9.3-rc1/lib/libruby.so.1.9(rb_iseq_new_with_opt+0x9d) [0x27b4ed] iseq.c:411
/home/saberma/.rvm/rubies/ruby-1.9.3-rc1/lib/libruby.so.1.9(rb_iseq_new_top+0x53) [0x27ba33] iseq.c:386
/home/saberma/.rvm/rubies/ruby-1.9.3-rc1/lib/libruby.so.1.9(+0x5ab6a) [0x16ab6a] load.c:308
/home/saberma/.rvm/rubies/ruby-1.9.3-rc1/lib/libruby.so.1.9(rb_require_safe+0x742) [0x16c2a2] load.c:619
/home/saberma/.rvm/rubies/ruby-1.9.3-rc1/lib/libruby.so.1.9(rb_autoload_load+0xa8) [0x262ee8] variable.c:1566
/home/saberma/.rvm/rubies/ruby-1.9.3-rc1/lib/libruby.so.1.9(+0x1550e9) [0x2650e9] variable.c:1605
/home/saberma/.rvm/rubies/ruby-1.9.3-rc1/lib/libruby.so.1.9(+0x155288) [0x265288] variable.c:1649
/home/saberma/.rvm/rubies/ruby-1.9.3-rc1/lib/libruby.so.1.9(+0x17098e) [0x28098e] vm_inshelper.c:1231
/home/saberma/.rvm/rubies/ruby-1.9.3-rc1/lib/libruby.so.1.9(+0x1724fc) [0x2824fc] insns.def:223
/home/saberma/.rvm/rubies/ruby-1.9.3-rc1/lib/libruby.so.1.9(+0x179052) [0x289052] vm.c:1220
/home/saberma/.rvm/rubies/ruby-1.9.3-rc1/lib/libruby.so.1.9(+0x17a95a) [0x28a95a] vm_eval.c:66
/home/saberma/.rvm/rubies/ruby-1.9.3-rc1/lib/libruby.so.1.9(+0x17e4a8) [0x28e4a8] vm_eval.c:235
/home/saberma/.rvm/rubies/ruby-1.9.3-rc1/lib/libruby.so.1.9(rb_iterate+0xcc) [0x27e7cc] vm_eval.c:862
/home/saberma/.rvm/rubies/ruby-1.9.3-rc1/lib/libruby.so.1.9(rb_block_call+0x4d) [0x27e96d] vm_eval.c:942
/home/saberma/.rvm/rubies/ruby-1.9.3-rc1/lib/libruby.so.1.9(+0x4c8f5) [0x15c8f5] enum.c:211
/home/saberma/.rvm/rubies/ruby-1.9.3-rc1/lib/libruby.so.1.9(+0x16d908) [0x27d908] vm_inshelper.c:317
/home/saberma/.rvm/rubies/ruby-1.9.3-rc1/lib/libruby.so.1.9(+0x17edd5) [0x28edd5] vm_inshelper.c:404
/home/saberma/.rvm/rubies/ruby-1.9.3-rc1/lib/libruby.so.1.9(+0x174268) [0x284268] insns.def:1015
/home/saberma/.rvm/rubies/ruby-1.9.3-rc1/lib/libruby.so.1.9(+0x179052) [0x289052] vm.c:1220
/home/saberma/.rvm/rubies/ruby-1.9.3-rc1/lib/libruby.so.1.9(+0x17a95a) [0x28a95a] vm_eval.c:66
/home/saberma/.rvm/rubies/ruby-1.9.3-rc1/lib/libruby.so.1.9(rb_obj_call_init+0x50) [0x167840] eval.c:876
```

```
/home/saberma/.rvm/rubies/ruby-1.9.3-rc1/lib/libruby.so.1.9(rb_class_new_instance+0x3a) [0x1b940a] object.c:1625
/home/saberma/.rvm/rubies/ruby-1.9.3-rc1/lib/libruby.so.1.9(+0x16d908) [0x27d908] vm_inshelper.c:317
/home/saberma/.rvm/rubies/ruby-1.9.3-rc1/lib/libruby.so.1.9(+0x17edd5) [0x28edd5] vm_inshelper.c:404
/home/saberma/.rvm/rubies/ruby-1.9.3-rc1/lib/libruby.so.1.9(+0x174268) [0x284268] insns.def:1015
/home/saberma/.rvm/rubies/ruby-1.9.3-rc1/lib/libruby.so.1.9(+0x179052) [0x289052] vm.c:1220
/home/saberma/.rvm/rubies/ruby-1.9.3-rc1/lib/libruby.so.1.9(rb_iseq_eval_main+0x1f2) [0x289452] vm.c:1461
/home/saberma/.rvm/rubies/ruby-1.9.3-rc1/lib/libruby.so.1.9(+0x57eca) [0x167eca] eval.c:204
/home/saberma/.rvm/rubies/ruby-1.9.3-rc1/lib/libruby.so.1.9(ruby_exec_node+0x25) [0x167f05] eval.c:251
/home/saberma/.rvm/rubies/ruby-1.9.3-rc1/lib/libruby.so.1.9(ruby_run_node+0x35) [0x169605] eval.c:244
irb() [0x80487d8]
/lib/tls/i686/cmov/libc.so.6(__libc_start_main+0xe6) [0x350bd6]
irb() [0x80486d1]
```

-- Other runtime information -----

- Loaded script: irb

- Loaded features:

```
0 enumerator.so
1 /home/saberma/.rvm/rubies/ruby-1.9.3-rc1/lib/ruby/1.9.1/i686-linux/enc/encdb.so
2 /home/saberma/.rvm/rubies/ruby-1.9.3-rc1/lib/ruby/1.9.1/i686-linux/enc/trans/transdb.so
3 /home/saberma/.rvm/rubies/ruby-1.9.3-rc1/lib/ruby/site_ruby/1.9.1/rubygems/defaults.rb
4 /home/saberma/.rvm/rubies/ruby-1.9.3-rc1/lib/ruby/1.9.1/i686-linux/rbconfig.rb
5 /home/saberma/.rvm/rubies/ruby-1.9.3-rc1/lib/ruby/site_ruby/1.9.1/rubygems/deprecate.rb
6 /home/saberma/.rvm/rubies/ruby-1.9.3-rc1/lib/ruby/site_ruby/1.9.1/rubygems/exceptions.rb
7 /home/saberma/.rvm/rubies/ruby-1.9.3-rc1/lib/ruby/site_ruby/1.9.1/rubygems/custom_require.rb
8 /home/saberma/.rvm/rubies/ruby-1.9.3-rc1/lib/ruby/site_ruby/1.9.1/rubygems.rb
9 /home/saberma/.rvm/rubies/ruby-1.9.3-rc1/lib/ruby/1.9.1/e2mmap.rb
10 /home/saberma/.rvm/rubies/ruby-1.9.3-rc1/lib/ruby/1.9.1/irb/init.rb
11 /home/saberma/.rvm/rubies/ruby-1.9.3-rc1/lib/ruby/1.9.1/irb/workspace.rb
12 /home/saberma/.rvm/rubies/ruby-1.9.3-rc1/lib/ruby/1.9.1/irb/inspector.rb
13 /home/saberma/.rvm/rubies/ruby-1.9.3-rc1/lib/ruby/1.9.1/irb/context.rb
14 /home/saberma/.rvm/rubies/ruby-1.9.3-rc1/lib/ruby/1.9.1/irb/extend-command.rb
15 /home/saberma/.rvm/rubies/ruby-1.9.3-rc1/lib/ruby/1.9.1/irb/output-method.rb
16 /home/saberma/.rvm/rubies/ruby-1.9.3-rc1/lib/ruby/1.9.1/irb/notifier.rb
17 /home/saberma/.rvm/rubies/ruby-1.9.3-rc1/lib/ruby/1.9.1/irb/slex.rb
18 /home/saberma/.rvm/rubies/ruby-1.9.3-rc1/lib/ruby/1.9.1/irb/ruby-token.rb
19 /home/saberma/.rvm/rubies/ruby-1.9.3-rc1/lib/ruby/1.9.1/irb/ruby-lex.rb
20 /home/saberma/.rvm/rubies/ruby-1.9.3-rc1/lib/ruby/1.9.1/irb/src_encoding.rb
21 /home/saberma/.rvm/rubies/ruby-1.9.3-rc1/lib/ruby/1.9.1/irb/magic-file.rb
22 /home/saberma/.rvm/rubies/ruby-1.9.3-rc1/lib/ruby/1.9.1/i686-linux/readline.so
23 /home/saberma/.rvm/rubies/ruby-1.9.3-rc1/lib/ruby/1.9.1/irb/input-method.rb
24 /home/saberma/.rvm/rubies/ruby-1.9.3-rc1/lib/ruby/1.9.1/irb/locale.rb
25 /home/saberma/.rvm/rubies/ruby-1.9.3-rc1/lib/ruby/1.9.1/irb.rb
26 /home/saberma/.rvm/rubies/ruby-1.9.3-rc1/lib/ruby/site_ruby/1.9.1/rubygems/version.rb
27 /home/saberma/.rvm/rubies/ruby-1.9.3-rc1/lib/ruby/site_ruby/1.9.1/rubygems/requirement.rb
28 /home/saberma/.rvm/rubies/ruby-1.9.3-rc1/lib/ruby/site_ruby/1.9.1/rubygems/platform.rb
29 /home/saberma/.rvm/rubies/ruby-1.9.3-rc1/lib/ruby/site_ruby/1.9.1/rubygems/specification.rb
```

- Process memory map:

```
00110000-00303000 r-xp 00000000 08:01 5377589 /home/saberma/.rvm/rubies/ruby-1.9.3-rc1/lib/libruby.so.1.9.1
00303000-00306000 r--p 001f2000 08:01 5377589 /home/saberma/.rvm/rubies/ruby-1.9.3-rc1/lib/libruby.so.1.9.1
00306000-00308000 rw-p 001f5000 08:01 5377589 /home/saberma/.rvm/rubies/ruby-1.9.3-rc1/lib/libruby.so.1.9.1
00308000-00318000 rw-p 00000000 00:00 0
00318000-0032d000 r-xp 00000000 08:01 11272349 /lib/tls/i686/cmov/libpthread-2.11.1.so
0032d000-0032e000 r--p 00014000 08:01 11272349 /lib/tls/i686/cmov/libpthread-2.11.1.so
0032e000-0032f000 rw-p 00015000 08:01 11272349 /lib/tls/i686/cmov/libpthread-2.11.1.so
0032f000-00331000 rw-p 00000000 00:00 0
00331000-00338000 r-xp 00000000 08:01 11272355 /lib/tls/i686/cmov/librt-2.11.1.so
00338000-00339000 r--p 00006000 08:01 11272355 /lib/tls/i686/cmov/librt-2.11.1.so
00339000-0033a000 rw-p 00007000 08:01 11272355 /lib/tls/i686/cmov/librt-2.11.1.so
0033a000-0048d000 r-xp 00000000 08:01 11272241 /lib/tls/i686/cmov/libc-2.11.1.so
0048d000-0048e000 ---p 00153000 08:01 11272241 /lib/tls/i686/cmov/libc-2.11.1.so
0048e000-00490000 r--p 00153000 08:01 11272241 /lib/tls/i686/cmov/libc-2.11.1.so
```

```

00490000-00491000 rw-p 00155000 08:01 11272241 /lib/tls/i686/cmouv/libc-2.11.1.so
00491000-00494000 rw-p 00000000 00:00 0
00498000-0049a000 r-xp 00000000 08:01 7216634
/home/saberma/.rvm/rubies/ruby-1.9.3-rc1/lib/ruby/1.9.1/i686-linux/enc/encdb.so
0049a000-0049b000 r--p 00001000 08:01 7216634
/home/saberma/.rvm/rubies/ruby-1.9.3-rc1/lib/ruby/1.9.1/i686-linux/enc/encdb.so
0049b000-0049c000 rw-p 00002000 08:01 7216634
/home/saberma/.rvm/rubies/ruby-1.9.3-rc1/lib/ruby/1.9.1/i686-linux/enc/encdb.so
0049c000-004cb000 r-xp 00000000 08:01 11272352 /lib/libreadline.so.6.1
004cb000-004cc000 r--p 0002e000 08:01 11272352 /lib/libreadline.so.6.1
004cc000-004cf000 rw-p 0002f000 08:01 11272352 /lib/libreadline.so.6.1
004cf000-004d0000 rw-p 00000000 00:00 0
00911000-0091a000 r-xp 00000000 08:01 11272249 /lib/tls/i686/cmouv/libcrypt-2.11.1.so
0091a000-0091b000 r--p 00008000 08:01 11272249 /lib/tls/i686/cmouv/libcrypt-2.11.1.so
0091b000-0091c000 rw-p 00009000 08:01 11272249 /lib/tls/i686/cmouv/libcrypt-2.11.1.so
0091c000-00943000 rw-p 00000000 00:00 0
00997000-0099c000 r-xp 00000000 08:01 6559402 /home/saberma/.rvm/rubies/ruby-1.9.3-rc1/lib/ruby/1.9.1/i686-linux/readline.so
0099c000-0099d000 r--p 00004000 08:01 6559402 /home/saberma/.rvm/rubies/ruby-1.9.3-rc1/lib/ruby/1.9.1/i686-linux/readline.so
0099d000-0099e000 rw-p 00005000 08:01 6559402 /home/saberma/.rvm/rubies/ruby-1.9.3-rc1/lib/ruby/1.9.1/i686-linux/readline.so
00a15000-00a16000 r-xp 00000000 00:00 0 [vdso]
00b02000-00b04000 r-xp 00000000 08:01 11272255 /lib/tls/i686/cmouv/libdl-2.11.1.so
00b04000-00b05000 r--p 00001000 08:01 11272255 /lib/tls/i686/cmouv/libdl-2.11.1.so
00b05000-00b06000 rw-p 00002000 08:01 11272255 /lib/tls/i686/cmouv/libdl-2.11.1.so
00bfd000-00bff000 r-xp 00000000 08:01 7349987
/home/saberma/.rvm/rubies/ruby-1.9.3-rc1/lib/ruby/1.9.1/i686-linux/enc/trans/transdb.so
00bff000-00c00000 r--p 00001000 08:01 7349987
/home/saberma/.rvm/rubies/ruby-1.9.3-rc1/lib/ruby/1.9.1/i686-linux/enc/trans/transdb.so
00c00000-00c01000 rw-p 00002000 08:01 7349987
/home/saberma/.rvm/rubies/ruby-1.9.3-rc1/lib/ruby/1.9.1/i686-linux/enc/trans/transdb.so
00cb5000-00cd2000 r-xp 00000000 08:01 11272275 /lib/libgcc_s.so.1
00cd2000-00cd3000 r--p 0001c000 08:01 11272275 /lib/libgcc_s.so.1
00cd3000-00cd4000 rw-p 0001d000 08:01 11272275 /lib/libgcc_s.so.1
00df1000-00e0c000 r-xp 00000000 08:01 11276218 /lib/ld-2.11.1.so
00e0c000-00e0d000 r--p 0001a000 08:01 11276218 /lib/ld-2.11.1.so
00e0d000-00e0e000 rw-p 0001b000 08:01 11276218 /lib/ld-2.11.1.so
00f05000-00f39000 r-xp 00000000 08:01 11272294 /lib/libncurses.so.5.7
00f39000-00f3a000 ---p 00034000 08:01 11272294 /lib/libncurses.so.5.7
00f3a000-00f3c000 r--p 00034000 08:01 11272294 /lib/libncurses.so.5.7
00f3c000-00f3d000 rw-p 00036000 08:01 11272294 /lib/libncurses.so.5.7
00f7d000-00fa1000 r-xp 00000000 08:01 11272290 /lib/tls/i686/cmouv/libm-2.11.1.so
00fa1000-00fa2000 r--p 00023000 08:01 11272290 /lib/tls/i686/cmouv/libm-2.11.1.so
00fa2000-00fa3000 rw-p 00024000 08:01 11272290 /lib/tls/i686/cmouv/libm-2.11.1.so
08048000-08049000 r-xp 00000000 08:01 5258895 /home/saberma/.rvm/rubies/ruby-1.9.3-rc1/bin/ruby
08049000-0804a000 r--p 00000000 08:01 5258895 /home/saberma/.rvm/rubies/ruby-1.9.3-rc1/bin/ruby
0804a000-0804b000 rw-p 00001000 08:01 5258895 /home/saberma/.rvm/rubies/ruby-1.9.3-rc1/bin/ruby
09389000-099c4000 rw-p 00000000 00:00 0 [heap]
b77c8000-b7849000 rw-p 00000000 00:00 0
b7849000-b7888000 r--p 00000000 08:01 2891665 /usr/lib/locale/en_US.utf8/LC_CTYPE
b7888000-b788b000 rw-p 00000000 00:00 0
b788f000-b7891000 rw-p 00000000 00:00 0
b7891000-b7892000 ---p 00000000 00:00 0
b7892000-b7895000 rw-p 00000000 00:00 0
b7895000-b789c000 r--s 00000000 08:01 2884807 /usr/lib/gconv/gconv-modules.cache
b789c000-b789e000 rw-p 00000000 00:00 0
bfcfa000-bfd10000 rw-p 00000000 00:00 0 [stack]

```

## Associated revisions

Revision 3d2451d9 - 10/01/2011 01:00 AM - nagachika (Tomoyuki Chikanaga)

- gc.c (add\_heap\_slots, init\_heap): reset heaps\_inc zero when heap slots are expanded by environment variable RUBY\_HEAP\_MIN\_SLOTS. [ruby-core:39777] [Bug #5380]
- test/ruby/test\_gc.rb (test\_gc\_parameter): add test for it.

- test/ruby/envutil.rb (assert\_normal\_exit): add :child\_env option to enable pass environemnt variables to child process.

git-svn-id: svn+ssh://ci.ruby-lang.org/ruby/trunk@33368 b2dd03c8-39d4-4d8f-98ff-823fe69b080e

**Revision 33368 - 10/01/2011 01:00 AM - nagachika (Tomoyuki Chikanaga)**

- gc.c (add\_heap\_slots, init\_heap): reset heaps\_inc zero when heap slots are expanded by environment variable RUBY\_HEAP\_MIN\_SLOTS. [ruby-core:39777] [Bug #5380]
- test/ruby/test\_gc.rb (test\_gc\_parameter): add test for it.
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- test/ruby/test\_gc.rb (test\_gc\_parameter): add test for it.
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**Revision 3973e70d - 10/03/2011 03:02 PM - nagachika (Tomoyuki Chikanaga)**

- gc.c (rb\_gc\_set\_params): output GC parameter change messages only if -w/-v options are specified. these messages are output to stderr, not to stdout. [ruby-core:39795] [Bug #5380]
- test/ruby/test\_gc.rb (test\_gc\_parameter): add test for it.

git-svn-id: svn+ssh://ci.ruby-lang.org/ruby/trunk@33379 b2dd03c8-39d4-4d8f-98ff-823fe69b080e

**Revision 33379 - 10/03/2011 03:02 PM - nagachika (Tomoyuki Chikanaga)**

- gc.c (rb\_gc\_set\_params): output GC parameter change messages only if -w/-v options are specified. these messages are output to stderr, not to stdout. [ruby-core:39795] [Bug #5380]
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- test/ruby/test\_gc.rb (test\_gc\_parameter): add test for it.

#### Revision 0accf1fb - 10/08/2011 10:26 AM - kosaki (Motohiro KOSAKI)

merge revision(s) 33368:

- \* gc.c (add\_heap\_slots, init\_heap): reset heaps\_inc zero when heap slots are expanded by environment variable RUBY\_HEAP\_MIN\_SLOTS. [ruby-core:39777] [Bug #5380]
- \* test/ruby/test\_gc.rb (test\_gc\_parameter): add test for it.
- \* test/ruby/envutil.rb (assert\_normal\_exit): add :child\_env option to enable pass environemnt variables to child process.

git-svn-id: svn+ssh://ci.ruby-lang.org/ruby/branches/ruby\_1\_9\_3@33432 b2dd03c8-39d4-4d8f-98ff-823fe69b080e

#### Revision 8eecb0a9 - 10/08/2011 10:37 AM - kosaki (Motohiro KOSAKI)

merge revision(s) 33379:

- \* gc.c (rb\_gc\_set\_params): output GC parameter change messages only if -w/-v options are specified. these messages are output to stderr, not to stdout. [ruby-core:39795] [Bug #5380]
- \* test/ruby/test\_gc.rb (test\_gc\_parameter): add test for it.

git-svn-id: svn+ssh://ci.ruby-lang.org/ruby/branches/ruby\_1\_9\_3@33433 b2dd03c8-39d4-4d8f-98ff-823fe69b080e

#### Revision b3da86e8 - 10/09/2011 01:18 PM - yugui (Yuki Sonoda)

### merges r33379 and r33395 from trunk into ruby\_1\_9\_3.

- gc.c (rb\_gc\_set\_params): output GC parameter change messages only



if -w/-v options are specified. these messages are output to stderr,  
not to stdout. [ruby-core:39795] [Bug #5380]

## \* test/ruby/test\_gc.rb (test\_gc\_parameter): add test for it.

- gc.c (rb\_gc\_set\_params): ruby\_verbose can be Qnil, so use RTEST.

git-svn-id: svn+ssh://ci.ruby-lang.org/ruby/branches/ruby\_1\_9\_3@33442 b2dd03c8-39d4-4d8f-98ff-823fe69b080e

### History

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#### #1 - 09/30/2011 06:43 PM - nagachika (Tomoyuki Chikanaga)

Thank you for reporting a bug.

I can reproduce similar SEGV on "ruby 1.9.4dev (2011-09-30 trunk 33364) [i686-linux]"  
The following patch seems fix this issue.

Narihiro-san, could you take a glance to this patch?

```
diff --git a/gc.c b/gc.c
index fad49e0..1fce29a 100644
--- a/gc.c
+++ b/gc.c
@@ -1090,6 +1090,7 @@ add_heap_slots(rb_objspace_t *objspace, size_t add)
 for (i = 0; i < add; i++) {
 assign_heap_slot(objspace);
 }

 • heaps_inc = 0; }

static void
@@ -1106,7 +1107,6 @@ init_heap(rb_objspace_t *objspace)
}
#endif

 • heaps_inc = 0; objspace->profile.invoke_time = getrusage_time(); finalizer_table = st_init_numtable(); }
```

#### #2 - 09/30/2011 08:04 PM - nagachika (Tomoyuki Chikanaga)

BTW, when GC parameters are set by environment variable, some messages are output to standard output with printf().  
I wonder if these are statements for debug and should be eliminated. Can I delete them?

#### #3 - 10/01/2011 12:17 AM - authorNari (Narihiro Nakamura)

Tomoyuki Chikanaga wrote:

Thank you for reporting a bug.

I can reproduce similar SEGV on "ruby 1.9.4dev (2011-09-30 trunk 33364) [i686-linux]"  
The following patch seems fix this issue.

Narihiro-san, could you take a glance to this patch?

```
diff --git a/gc.c b/gc.c
index fad49e0..1fce29a 100644
--- a/gc.c
+++ b/gc.c
@@ -1090,6 +1090,7 @@ add_heap_slots(rb_objspace_t *objspace, size_t add)
 for (i = 0; i < add; i++) {
 assign_heap_slot(objspace);
 }

 • heaps_inc = 0; }

static void
@@ -1106,7 +1107,6 @@ init_heap(rb_objspace_t *objspace)
}
#endif

 • heaps_inc = 0; objspace->profile.invoke_time = getrusage_time(); finalizer_table = st_init_numtable(); }
```

Thanks! Please commit this patch.

**#4 - 10/01/2011 12:21 AM - authorNari (Narihiro Nakamura)**

Tomoyuki Chikanaga wrote:

BTW, when GC parameters are set by environment variable, some messages are output to standard output with printf().  
I wonder if these are statements for debug and should be eliminated. Can I delete them?

I think this behavior is specific.  
Matz, What do you think?

**#5 - 10/01/2011 12:29 AM - nobu (Nobuyoshi Nakada)**

Narihiro Nakamura wrote:

Tomoyuki Chikanaga wrote:

BTW, when GC parameters are set by environment variable, some messages are output to standard output with printf().  
I wonder if these are statements for debug and should be eliminated. Can I delete them?

I think this behavior is specific.

I think they should be shown only when GC\_NOTIFY is set, at least.

**#6 - 10/01/2011 03:26 AM - matz (Yukihiko Matsumoto)**

Nobuyoshi Nakada wrote:

I think this behavior is specific.

I think they should be shown only when GC\_NOTIFY is set, at least.

or when -w option is specified.

**#7 - 10/01/2011 10:00 AM - nagachika (Tomoyuki Chikanaga)**

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

This issue was solved with changeset r33368.  
saber, thank you for reporting this issue.  
Your contribution to Ruby is greatly appreciated.  
May Ruby be with you.

- 
- gc.c (add\_heap\_slots, init\_heap): reset heaps\_inc zero when heap slots are expanded by environment variable RUBY\_HEAP\_MIN\_SLOTS. [ruby-core:39777] [Bug #5380]
  - test/ruby/test\_gc.rb (test\_gc\_parameter): add test for it.
  - test/ruby/envutil.rb (assert\_normal\_exit): add :child\_env option to enable pass environemnt variables to child process.

**#8 - 10/01/2011 11:22 AM - nagachika (Tomoyuki Chikanaga)**

- File gc\_parameter\_message.patch added
- Category set to core
- Status changed from Closed to Assigned
- Assignee set to nagachika (Tomoyuki Chikanaga)
- Target version set to 1.9.3

Yukihiko Matsumoto wrote:

Nobuyoshi Nakada wrote:

I think this behavior is specific.

I think they should be shown only when GC\_NOTIFY is set, at least.

or when -w option is specified.  
Thank you for your comments.

I think shown with -w option is fine.  
And I feel it's more natural the messages shown with -w are outputted to stderr.  
I attach a patch with test.  
If there's no opposite opinion, I'll check in it.

**#9 - 10/04/2011 12:03 AM - nagachika (Tomoyuki Chikanaga)**

- Status changed from Assigned to Closed

This issue was solved with changeset r33379.  
saber, thank you for reporting this issue.  
Your contribution to Ruby is greatly appreciated.  
May Ruby be with you.

- 
- gc.c (rb\_gc\_set\_params): output GC parameter change messages only if -w/-v options are specified. these messages are output to stderr, not to stdout. [ruby-core:39795] [Bug [#5380](#)]
  - test/ruby/test\_gc.rb (test\_gc\_parameter): add test for it.

**Files**

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gc_parameter_message.patch	2.06 KB	10/01/2011	nagachika (Tomoyuki Chikanaga)
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