

Ruby - Bug #17599

[BUG] try to mark T_NONE object when object allocation tracing is enabled

01/31/2021 03:43 PM - byroot (Jean Boussier)

Status:	Closed	Backport: 2.5: UNKNOWN, 2.6: UNKNOWN, 2.7: UNKNOWN, 3.0: DONE
Priority:	Normal	
Assignee:	ko1 (Koichi Sasada)	
Target version:		
ruby -v:	3.0.0p0	
Description		
<pre>GC.stress = true require "objspace" ObjectSpace.trace_object_allocations_start 10.times { Object.new }</pre>		
It doesn't happen on every runs on OSX, but happens consistently in Docker:		
<pre>\$ docker run -it ruby:3.0 ruby -e 'GC.stress = true; require "objspace"; ObjectSpace.trace_object_ allocations_start; Object.new' -e:1: [BUG] Segmentation fault at 0x0000000000000000 ruby 3.0.0p0 (2020-12-25 revision 95aff21468) [x86_64-linux]</pre>		
<pre>-- Control frame information ----- c:0003 p:---- s:0010 e:000009 CFUNC :new c:0002 p:0043 s:0006 e:000005 EVAL -e:1 [FINISH] c:0001 p:0000 s:0003 E:001130 (none) [FINISH]</pre>		
<pre>-- Ruby level backtrace information ----- -e:1:in `<main>' -e:1:in `new'</pre>		
<pre>-- Machine register context ----- RIP: 0x00007fd3a5419f5c RBP: 0x00005572109fa6a0 RSP: 0x00007ffd10dde8f0 RAX: 0x0000000000000000 RBX: 0x0000557210cd40a0 RCX: 0xaed7ec696d281e61 RDX: 0x0000000000000004 RDI: 0x00005572109fa6a0 RSI: 0xc000000000000000 R8: 0x000000000000002021 R9: 0x0000000000000000 R10: 0x0000557210d44a70 R11: 0x00007fd3a5422cf0 R12: 0x0000000000000001 R13: 0x0000000000000003 R14: 0x0000557210d6fed0 R15: 0x0000557210ab6800 EFL: 0x0000000000001020</pre>		
<pre>-- C level backtrace information ----- /usr/local/lib/libruby.so.3.0(rb_print_backtrace+0x11) [0x7fd3a55cb5ff] vm_dump.c:758 /usr/local/lib/libruby.so.3.0(rb_vm_bugreport) vm_dump.c:998 /usr/local/lib/libruby.so.3.0(rb_bug_for_fatal_signal+0x15e) [0x7fd3a53f79be] error.c:786 /usr/local/lib/libruby.so.3.0(sigsegv+0x4b) [0x7fd3a55331eb] signal.c:960 /lib/x86_64-linux-gnu/libpthread.so.0(__restore_rt+0x0) [0x7fd3a50fd730] /usr/local/lib/libruby.so.3.0(RVALUE_MARKED+0x38) [0x7fd3a5419f5c] gc.c:1377 /usr/local/lib/libruby.so.3.0(gc_mark_set) gc.c:5978 /usr/local/lib/libruby.so.3.0(gc_mark_ptr) gc.c:6092 /usr/local/lib/libruby.so.3.0(gc_mark_children+0x4c0) [0x7fd3a541af90] gc.c:6361 /usr/local/lib/libruby.so.3.0(gc_mark_stacked_objects+0x3d) [0x7fd3a541ee10] gc.c:6454 /usr/local/lib/libruby.so.3.0(gc_mark_stacked_objects_incremental) gc.c:6488 /usr/local/lib/libruby.so.3.0(gc_marks_rest) gc.c:7431 /usr/local/lib/libruby.so.3.0(gc_rest+0xb0) [0x7fd3a541f450] gc.c:8330 /usr/local/lib/libruby.so.3.0(gc_rest+0xc) [0x7fd3a541d28c] gc.c:8202 /usr/local/lib/libruby.so.3.0(garbage_collect) gc.c:8191 /usr/local/lib/libruby.so.3.0(garbage_collect_with_gvl+0x7a) [0x7fd3a541d35a] gc.c:8502 /usr/local/lib/libruby.so.3.0(objspace_xmalloc+0x1d) [0x7fd3a5422dbf] gc.c:10421 /usr/local/lib/libruby.so.3.0(ruby_xmalloc) gc.c:10817 /usr/local/lib/libruby.so.3.0(ruby_xmalloc_body) gc.c:10826 /usr/local/lib/libruby.so.3.0(ruby_xmalloc) gc.c:12765 /usr/local/lib/ruby/3.0.0/x86_64-linux/objspace.so(newobj_i+0x39e) [0x7fd3a16df47e] object_tracing</pre>		

```
.c:46
/usr/local/lib/libruby.so.3.0(tp_call_trace+0x2e) [0x7fd3a55cd3fe] vm_trace.c:1115
/usr/local/lib/libruby.so.3.0(exec_hooks_body+0x86) [0x7fd3a55cd516] vm_trace.c:304
/usr/local/lib/libruby.so.3.0(exec_hooks_postcheck+0x0) [0x7fd3a55cf714] vm_trace.c:333
/usr/local/lib/libruby.so.3.0(exec_hooks_unprotected) vm_trace.c:334
/usr/local/lib/libruby.so.3.0(rb_exec_event_hooks) vm_trace.c:378
/usr/local/lib/libruby.so.3.0(rb_exec_event_hook_orig+0x4c) [0x7fd3a540fe00] vm_core.h:1970
/usr/local/lib/libruby.so.3.0(gc_event_hook_body) gc.c:2067
/usr/local/lib/libruby.so.3.0(newobj_slowpath+0x14c) [0x7fd3a5420cb0] gc.c:2253
/usr/local/lib/libruby.so.3.0(newobj_slowpath_wb_protected) gc.c:2268
/usr/local/lib/libruby.so.3.0(newobj_of0+0xa) [0x7fd3a5420e1a] gc.c:2307
/usr/local/lib/libruby.so.3.0(newobj_of) gc.c:2327
/usr/local/lib/libruby.so.3.0(rb_class_allocate_instance) gc.c:2481
/usr/local/lib/libruby.so.3.0(class_call_alloc_func+0x5) [0x7fd3a54a4fce] object.c:2064
/usr/local/lib/libruby.so.3.0(rb_class_alloc) object.c:2036
/usr/local/lib/libruby.so.3.0(rb_class_new_instance_pass_kw) object.c:2109
/usr/local/lib/libruby.so.3.0(vm_call_cfunc_with_frame+0x11b) [0x7fd3a55a972b] vm_insnhelper.c:289
8
/usr/local/lib/libruby.so.3.0(vm_sendish+0xb3) [0x7fd3a55ad3d3] vm_insnhelper.c:4499
/usr/local/lib/libruby.so.3.0(vm_exec_core+0xce) [0x7fd3a55b536e] insns.def:789
/usr/local/lib/libruby.so.3.0(rb_vm_exec+0x176) [0x7fd3a55bab26] vm.c:2163
/usr/local/lib/libruby.so.3.0(rb_ec_exec_node+0xd9) [0x7fd3a53fc719] eval.c:317
/usr/local/lib/libruby.so.3.0(ruby_run_node+0x55) [0x7fd3a5402395] eval.c:375
/usr/local/bin/ruby(main+0x5b) [0x55720fddf10b] ./main.c:50
```

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

```
* Loaded script: -e
```

```
* Loaded features:
```

```
0 enumerator.so
1 thread.rb
2 rational.so
3 complex.so
4 ruby2_keywords.rb
5 /usr/local/lib/ruby/3.0.0/x86_64-linux/enc/encdb.so
6 /usr/local/lib/ruby/3.0.0/x86_64-linux/enc/trans/transdb.so
7 /usr/local/lib/ruby/3.0.0/x86_64-linux/rbconfig.rb
8 /usr/local/lib/ruby/3.0.0/rubygems/compatibility.rb
9 /usr/local/lib/ruby/3.0.0/rubygems/defaults.rb
10 /usr/local/lib/ruby/3.0.0/rubygems/deprecate.rb
11 /usr/local/lib/ruby/3.0.0/rubygems/errors.rb
12 /usr/local/lib/ruby/3.0.0/rubygems/exceptions.rb
13 /usr/local/lib/ruby/3.0.0/rubygems/basic_specification.rb
14 /usr/local/lib/ruby/3.0.0/rubygems/stub_specification.rb
15 /usr/local/lib/ruby/3.0.0/rubygems/text.rb
16 /usr/local/lib/ruby/3.0.0/rubygems/user_interaction.rb
17 /usr/local/lib/ruby/3.0.0/rubygems/specification_policy.rb
18 /usr/local/lib/ruby/3.0.0/rubygems/util/list.rb
19 /usr/local/lib/ruby/3.0.0/rubygems/platform.rb
20 /usr/local/lib/ruby/3.0.0/rubygems/version.rb
21 /usr/local/lib/ruby/3.0.0/rubygems/requirement.rb
22 /usr/local/lib/ruby/3.0.0/rubygems/specification.rb
23 /usr/local/lib/ruby/3.0.0/rubygems/util.rb
24 /usr/local/lib/ruby/3.0.0/rubygems/dependency.rb
25 /usr/local/lib/ruby/3.0.0/rubygems/core_ext/kernel_gem.rb
26 /usr/local/lib/ruby/3.0.0/x86_64-linux/monitor.so
27 /usr/local/lib/ruby/3.0.0/monitor.rb
28 /usr/local/lib/ruby/3.0.0/rubygems/core_ext/kernel_require.rb
29 /usr/local/lib/ruby/3.0.0/rubygems/core_ext/kernel_warn.rb
30 /usr/local/lib/ruby/3.0.0/rubygems.rb
31 /usr/local/lib/ruby/3.0.0/rubygems/path_support.rb
32 /usr/local/lib/ruby/3.0.0/did_you_mean/version.rb
33 /usr/local/lib/ruby/3.0.0/did_you_mean/core_ext/name_error.rb
34 /usr/local/lib/ruby/3.0.0/did_you_mean/levenshtein.rb
35 /usr/local/lib/ruby/3.0.0/did_you_mean/jaro_winkler.rb
```

```

36 /usr/local/lib/ruby/3.0.0/did_you_mean/spell_checker.rb
37 /usr/local/lib/ruby/3.0.0/did_you_mean/spell_checkers/name_error_checkers/class_name_checker
.rb
38 /usr/local/lib/ruby/3.0.0/did_you_mean/spell_checkers/name_error_checkers/variable_name_chec
ker.rb
39 /usr/local/lib/ruby/3.0.0/did_you_mean/spell_checkers/name_error_checkers.rb
40 /usr/local/lib/ruby/3.0.0/did_you_mean/spell_checkers/method_name_checker.rb
41 /usr/local/lib/ruby/3.0.0/did_you_mean/spell_checkers/key_error_checker.rb
42 /usr/local/lib/ruby/3.0.0/did_you_mean/spell_checkers/null_checker.rb
43 /usr/local/lib/ruby/3.0.0/did_you_mean/tree_spell_checker.rb
44 /usr/local/lib/ruby/3.0.0/did_you_mean/spell_checkers/require_path_checker.rb
45 /usr/local/lib/ruby/3.0.0/did_you_mean/formatters/plain_formatter.rb
46 /usr/local/lib/ruby/3.0.0/did_you_mean.rb
47 /usr/local/lib/ruby/3.0.0/x86_64-linux/objspace.so
48 /usr/local/lib/ruby/3.0.0/objspace.rb

```

* Process memory map:

```

55720fdde000-55720fddf000 r--p 00000000 fe:01 5776554 /usr/local/bin/ruby
55720fddf000-55720fde0000 r-xp 00001000 fe:01 5776554 /usr/local/bin/ruby
55720fde0000-55720fde1000 r--p 00002000 fe:01 5776554 /usr/local/bin/ruby
55720fde1000-55720fde2000 r--p 00002000 fe:01 5776554 /usr/local/bin/ruby
55720fde2000-55720fde3000 rw-p 00003000 fe:01 5776554 /usr/local/bin/ruby
5572109f9000-557210e11000 rw-p 00000000 00:00 0 [heap]
7fd39f96f000-7fd39fb2d000 r--s 00000000 fe:01 5393403 /lib/x86_64-linux-gnu/lib
c-2.28.so
7fd39fb2d000-7fd39fb6c000 r--s 00000000 fe:01 5777946 /usr/local/lib/ruby/3.0.0
/x86_64-linux/objspace.so
7fd39fb6c000-7fd39fb90000 r--s 00000000 fe:01 5393462 /lib/x86_64-linux-gnu/lib
pthread-2.28.so
7fd39fb90000-7fd3a0ad7000 rw-p 00000000 00:00 0
7fd3a0ad7000-7fd3a1682000 r--s 00000000 fe:01 5776756 /usr/local/lib/libruby.so
.3.0.0
7fd3a1682000-7fd3a16b8000 r--s 00000000 fe:01 5776554 /usr/local/bin/ruby
7fd3a16b8000-7fd3a16bb000 r--p 00000000 fe:01 5393421 /lib/x86_64-linux-gnu/lib
gcc_s.so.1
7fd3a16bb000-7fd3a16cc000 r-xp 00003000 fe:01 5393421 /lib/x86_64-linux-gnu/lib
gcc_s.so.1
7fd3a16cc000-7fd3a16cf000 r--p 00014000 fe:01 5393421 /lib/x86_64-linux-gnu/lib
gcc_s.so.1
7fd3a16cf000-7fd3a16d0000 ---p 00017000 fe:01 5393421 /lib/x86_64-linux-gnu/lib
gcc_s.so.1
7fd3a16d0000-7fd3a16d1000 r--p 00017000 fe:01 5393421 /lib/x86_64-linux-gnu/lib
gcc_s.so.1
7fd3a16d1000-7fd3a16d2000 rw-p 00018000 fe:01 5393421 /lib/x86_64-linux-gnu/lib
gcc_s.so.1
7fd3a16db000-7fd3a16de000 r--p 00000000 fe:01 5777946 /usr/local/lib/ruby/3.0.0
/x86_64-linux/objspace.so
7fd3a16de000-7fd3a16e5000 r-xp 00003000 fe:01 5777946 /usr/local/lib/ruby/3.0.0
/x86_64-linux/objspace.so
7fd3a16e5000-7fd3a16e7000 r--p 0000a000 fe:01 5777946 /usr/local/lib/ruby/3.0.0
/x86_64-linux/objspace.so
7fd3a16e7000-7fd3a16e8000 ---p 0000c000 fe:01 5777946 /usr/local/lib/ruby/3.0.0
/x86_64-linux/objspace.so
7fd3a16e8000-7fd3a16e9000 r--p 0000c000 fe:01 5777946 /usr/local/lib/ruby/3.0.0
/x86_64-linux/objspace.so
7fd3a16e9000-7fd3a16ea000 rw-p 0000d000 fe:01 5777946 /usr/local/lib/ruby/3.0.0
/x86_64-linux/objspace.so
7fd3a16ea000-7fd3a16eb000 r--p 00000000 fe:01 5777944 /usr/local/lib/ruby/3.0.0
/x86_64-linux/monitor.so
7fd3a16eb000-7fd3a16ec000 r-xp 00001000 fe:01 5777944 /usr/local/lib/ruby/3.0.0
/x86_64-linux/monitor.so
7fd3a16ec000-7fd3a16ed000 r--p 00002000 fe:01 5777944 /usr/local/lib/ruby/3.0.0
/x86_64-linux/monitor.so
7fd3a16ed000-7fd3a16ee000 r--p 00002000 fe:01 5777944 /usr/local/lib/ruby/3.0.0
/x86_64-linux/monitor.so
7fd3a16ee000-7fd3a16ef000 rw-p 00003000 fe:01 5777944 /usr/local/lib/ruby/3.0.0

```

/x86_64-linux/monitor.so					
7fd3a16ef000-7fd3a16f0000	r--p	00000000	fe:01	5777917	/usr/local/lib/ruby/3.0.0
/x86_64-linux/enc/trans/transdb.so					
7fd3a16f0000-7fd3a16f2000	r-xp	00001000	fe:01	5777917	/usr/local/lib/ruby/3.0.0
/x86_64-linux/enc/trans/transdb.so					
7fd3a16f2000-7fd3a16f3000	r--p	00003000	fe:01	5777917	/usr/local/lib/ruby/3.0.0
/x86_64-linux/enc/trans/transdb.so					
7fd3a16f3000-7fd3a16f4000	r--p	00003000	fe:01	5777917	/usr/local/lib/ruby/3.0.0
/x86_64-linux/enc/trans/transdb.so					
7fd3a16f4000-7fd3a16f5000	rw-p	00004000	fe:01	5777917	/usr/local/lib/ruby/3.0.0
/x86_64-linux/enc/trans/transdb.so					
7fd3a16f5000-7fd3a16f6000	r--p	00000000	fe:01	5777873	/usr/local/lib/ruby/3.0.0
/x86_64-linux/enc/encdb.so					
7fd3a16f6000-7fd3a16f7000	r-xp	00001000	fe:01	5777873	/usr/local/lib/ruby/3.0.0
/x86_64-linux/enc/encdb.so					
7fd3a16f7000-7fd3a16f8000	r--p	00002000	fe:01	5777873	/usr/local/lib/ruby/3.0.0
/x86_64-linux/enc/encdb.so					
7fd3a16f8000-7fd3a16f9000	r--p	00002000	fe:01	5777873	/usr/local/lib/ruby/3.0.0
/x86_64-linux/enc/encdb.so					
7fd3a16f9000-7fd3a16fa000	rw-p	00003000	fe:01	5777873	/usr/local/lib/ruby/3.0.0
/x86_64-linux/enc/encdb.so					
7fd3a16fa000-7fd3a16fb000	---p	00000000	00:00	0	
7fd3a16fb000-7fd3a179c000	rw-p	00000000	00:00	0	
7fd3a179c000-7fd3a179d000	---p	00000000	00:00	0	
7fd3a179d000-7fd3a183e000	rw-p	00000000	00:00	0	
7fd3a183e000-7fd3a183f000	---p	00000000	00:00	0	
7fd3a183f000-7fd3a18e0000	rw-p	00000000	00:00	0	
7fd3a18e0000-7fd3a18e1000	---p	00000000	00:00	0	
7fd3a18e1000-7fd3a1982000	rw-p	00000000	00:00	0	
7fd3a1982000-7fd3a1983000	---p	00000000	00:00	0	
7fd3a1983000-7fd3a1a24000	rw-p	00000000	00:00	0	
7fd3a1a24000-7fd3a1a25000	---p	00000000	00:00	0	
7fd3a1a25000-7fd3a1ac6000	rw-p	00000000	00:00	0	
7fd3a1ac6000-7fd3a1ac7000	---p	00000000	00:00	0	
7fd3a1ac7000-7fd3a1b68000	rw-p	00000000	00:00	0	
7fd3a1b68000-7fd3a1b69000	---p	00000000	00:00	0	
7fd3a1b69000-7fd3a1c0a000	rw-p	00000000	00:00	0	
7fd3a1c0a000-7fd3a1c0b000	---p	00000000	00:00	0	
7fd3a1c0b000-7fd3a1cac000	rw-p	00000000	00:00	0	
7fd3a1cac000-7fd3a1cad000	---p	00000000	00:00	0	
7fd3a1cad000-7fd3a1d4e000	rw-p	00000000	00:00	0	
7fd3a1d4e000-7fd3a1d4f000	---p	00000000	00:00	0	
7fd3a1d4f000-7fd3a1ddf000	rw-p	00000000	00:00	0	
7fd3a1ddf000-7fd3a1ddf1000	---p	00000000	00:00	0	
7fd3a1ddf1000-7fd3a1e92000	rw-p	00000000	00:00	0	
7fd3a1e92000-7fd3a1e93000	---p	00000000	00:00	0	
7fd3a1e93000-7fd3a1f34000	rw-p	00000000	00:00	0	
7fd3a1f34000-7fd3a1f35000	---p	00000000	00:00	0	
7fd3a1f35000-7fd3a1fd6000	rw-p	00000000	00:00	0	
7fd3a1fd6000-7fd3a1fd7000	---p	00000000	00:00	0	
7fd3a1fd7000-7fd3a2078000	rw-p	00000000	00:00	0	
7fd3a2078000-7fd3a2079000	---p	00000000	00:00	0	
7fd3a2079000-7fd3a211a000	rw-p	00000000	00:00	0	
7fd3a211a000-7fd3a211b000	---p	00000000	00:00	0	
7fd3a211b000-7fd3a21bc000	rw-p	00000000	00:00	0	
7fd3a21bc000-7fd3a21bd000	---p	00000000	00:00	0	
7fd3a21bd000-7fd3a225e000	rw-p	00000000	00:00	0	
7fd3a225e000-7fd3a225f000	---p	00000000	00:00	0	
7fd3a225f000-7fd3a2300000	rw-p	00000000	00:00	0	
7fd3a2300000-7fd3a2301000	---p	00000000	00:00	0	
7fd3a2301000-7fd3a23a2000	rw-p	00000000	00:00	0	
7fd3a23a2000-7fd3a23a3000	---p	00000000	00:00	0	
7fd3a23a3000-7fd3a2444000	rw-p	00000000	00:00	0	
7fd3a2444000-7fd3a2445000	---p	00000000	00:00	0	
7fd3a2445000-7fd3a24e6000	rw-p	00000000	00:00	0	
7fd3a24e6000-7fd3a24e7000	---p	00000000	00:00	0	
7fd3a24e7000-7fd3a2588000	rw-p	00000000	00:00	0	

7fd3a2588000-7fd3a2589000	---	p	00000000	00:00	0	
7fd3a2589000-7fd3a262a000	rw-	p	00000000	00:00	0	
7fd3a262a000-7fd3a262b000	---	p	00000000	00:00	0	
7fd3a262b000-7fd3a26cc000	rw-	p	00000000	00:00	0	
7fd3a26cc000-7fd3a26cd000	---	p	00000000	00:00	0	
7fd3a26cd000-7fd3a276e000	rw-	p	00000000	00:00	0	
7fd3a276e000-7fd3a276f000	---	p	00000000	00:00	0	
7fd3a276f000-7fd3a2810000	rw-	p	00000000	00:00	0	
7fd3a2810000-7fd3a2811000	---	p	00000000	00:00	0	
7fd3a2811000-7fd3a28b2000	rw-	p	00000000	00:00	0	
7fd3a28b2000-7fd3a28b3000	---	p	00000000	00:00	0	
7fd3a28b3000-7fd3a2954000	rw-	p	00000000	00:00	0	
7fd3a2954000-7fd3a2955000	---	p	00000000	00:00	0	
7fd3a2955000-7fd3a29f6000	rw-	p	00000000	00:00	0	
7fd3a29f6000-7fd3a29f7000	---	p	00000000	00:00	0	
7fd3a29f7000-7fd3a2a98000	rw-	p	00000000	00:00	0	
7fd3a2a98000-7fd3a2a99000	---	p	00000000	00:00	0	
7fd3a2a99000-7fd3a4ca5000	rw-	p	00000000	00:00	0	
7fd3a4ca5000-7fd3a4cd7000	r--	p	00000000	fe:01	5393875	/usr/lib/locale/C.UTF-8/LC_CTYPE
7fd3a4cd7000-7fd3a4cd9000	rw-	p	00000000	00:00	0	
7fd3a4cd9000-7fd3a4cfb000	r--	p	00000000	fe:01	5393403	/lib/x86_64-linux-gnu/libc-2.28.so
7fd3a4cfb000-7fd3a4e43000	r-xp		00022000	fe:01	5393403	/lib/x86_64-linux-gnu/libc-2.28.so
7fd3a4e43000-7fd3a4e8f000	r--	p	0016a000	fe:01	5393403	/lib/x86_64-linux-gnu/libc-2.28.so
7fd3a4e8f000-7fd3a4e90000	---	p	001b6000	fe:01	5393403	/lib/x86_64-linux-gnu/libc-2.28.so
7fd3a4e90000-7fd3a4e94000	r--	p	001b6000	fe:01	5393403	/lib/x86_64-linux-gnu/libc-2.28.so
7fd3a4e94000-7fd3a4e96000	rw-	p	001ba000	fe:01	5393403	/lib/x86_64-linux-gnu/libc-2.28.so
7fd3a4e96000-7fd3a4e9a000	rw-	p	00000000	00:00	0	
7fd3a4e9a000-7fd3a4ea7000	r--	p	00000000	fe:01	5393428	/lib/x86_64-linux-gnu/libm-2.28.so
7fd3a4ea7000-7fd3a4f46000	r-xp		0000d000	fe:01	5393428	/lib/x86_64-linux-gnu/libm-2.28.so
7fd3a4f46000-7fd3a501b000	r--	p	000ac000	fe:01	5393428	/lib/x86_64-linux-gnu/libm-2.28.so
7fd3a501b000-7fd3a501c000	r--	p	00180000	fe:01	5393428	/lib/x86_64-linux-gnu/libm-2.28.so
7fd3a501c000-7fd3a501d000	rw-	p	00181000	fe:01	5393428	/lib/x86_64-linux-gnu/libm-2.28.so
7fd3a501d000-7fd3a501e000	r--	p	00000000	fe:01	5393411	/lib/x86_64-linux-gnu/libcrypt-2.28.so
7fd3a501e000-7fd3a5024000	r-xp		00001000	fe:01	5393411	/lib/x86_64-linux-gnu/libcrypt-2.28.so
7fd3a5024000-7fd3a5026000	r--	p	00007000	fe:01	5393411	/lib/x86_64-linux-gnu/libcrypt-2.28.so
7fd3a5026000-7fd3a5027000	---	p	00009000	fe:01	5393411	/lib/x86_64-linux-gnu/libcrypt-2.28.so
7fd3a5027000-7fd3a5028000	r--	p	00009000	fe:01	5393411	/lib/x86_64-linux-gnu/libcrypt-2.28.so
7fd3a5028000-7fd3a5029000	rw-	p	0000a000	fe:01	5393411	/lib/x86_64-linux-gnu/libcrypt-2.28.so
7fd3a5029000-7fd3a5059000	rw-	p	00000000	00:00	0	
7fd3a5059000-7fd3a505a000	r--	p	00000000	fe:01	5393413	/lib/x86_64-linux-gnu/libdl-2.28.so
7fd3a505a000-7fd3a505b000	r-xp		00001000	fe:01	5393413	/lib/x86_64-linux-gnu/libdl-2.28.so
7fd3a505b000-7fd3a505c000	r--	p	00002000	fe:01	5393413	/lib/x86_64-linux-gnu/libdl-2.28.so
7fd3a505c000-7fd3a505d000	r--	p	00002000	fe:01	5393413	/lib/x86_64-linux-gnu/libdl-2.28.so
7fd3a505d000-7fd3a505e000	rw-	p	00003000	fe:01	5393413	/lib/x86_64-linux-gnu/libdl-2.28.so

7fd3a505e000-7fd3a5069000	r--p	00000000	fe:01	5394180	/usr/lib/x86_64-linux-gnu
/libgmp.so.10.3.2					
7fd3a5069000-7fd3a50c7000	r-xp	0000b000	fe:01	5394180	/usr/lib/x86_64-linux-gnu
/libgmp.so.10.3.2					
7fd3a50c7000-7fd3a50de000	r--p	00069000	fe:01	5394180	/usr/lib/x86_64-linux-gnu
/libgmp.so.10.3.2					
7fd3a50de000-7fd3a50df000	---p	00080000	fe:01	5394180	/usr/lib/x86_64-linux-gnu
/libgmp.so.10.3.2					
7fd3a50df000-7fd3a50e0000	r--p	00080000	fe:01	5394180	/usr/lib/x86_64-linux-gnu
/libgmp.so.10.3.2					
7fd3a50e0000-7fd3a50e1000	rw-p	00081000	fe:01	5394180	/usr/lib/x86_64-linux-gnu
/libgmp.so.10.3.2					
7fd3a50e1000-7fd3a50e3000	r--p	00000000	fe:01	5393466	/lib/x86_64-linux-gnu/lib
rt-2.28.so					
7fd3a50e3000-7fd3a50e7000	r-xp	00002000	fe:01	5393466	/lib/x86_64-linux-gnu/lib
rt-2.28.so					
7fd3a50e7000-7fd3a50e9000	r--p	00006000	fe:01	5393466	/lib/x86_64-linux-gnu/lib
rt-2.28.so					
7fd3a50e9000-7fd3a50ea000	r--p	00007000	fe:01	5393466	/lib/x86_64-linux-gnu/lib
rt-2.28.so					
7fd3a50ea000-7fd3a50eb000	rw-p	00008000	fe:01	5393466	/lib/x86_64-linux-gnu/lib
rt-2.28.so					
7fd3a50eb000-7fd3a50f1000	r--p	00000000	fe:01	5393462	/lib/x86_64-linux-gnu/lib
pthread-2.28.so					
7fd3a50f1000-7fd3a5100000	r-xp	00006000	fe:01	5393462	/lib/x86_64-linux-gnu/lib
pthread-2.28.so					
7fd3a5100000-7fd3a5106000	r--p	00015000	fe:01	5393462	/lib/x86_64-linux-gnu/lib
pthread-2.28.so					
7fd3a5106000-7fd3a5107000	r--p	0001a000	fe:01	5393462	/lib/x86_64-linux-gnu/lib
pthread-2.28.so					
7fd3a5107000-7fd3a5108000	rw-p	0001b000	fe:01	5393462	/lib/x86_64-linux-gnu/lib
pthread-2.28.so					
7fd3a5108000-7fd3a510c000	rw-p	00000000	00:00	0	
7fd3a510c000-7fd3a5128000	r-xp	00000000	fe:01	5393487	/lib/x86_64-linux-gnu/lib
z.so.1.2.11					
7fd3a5128000-7fd3a5328000	---p	0001c000	fe:01	5393487	/lib/x86_64-linux-gnu/lib
z.so.1.2.11					
7fd3a5328000-7fd3a5329000	r--p	0001c000	fe:01	5393487	/lib/x86_64-linux-gnu/lib
z.so.1.2.11					
7fd3a5329000-7fd3a532a000	rw-p	0001d000	fe:01	5393487	/lib/x86_64-linux-gnu/lib
z.so.1.2.11					
7fd3a532c000-7fd3a5333000	r--s	00000000	fe:01	5394155	/usr/lib/x86_64-linux-gnu
/gconv/gconv-modules.cache					
7fd3a5333000-7fd3a5363000	r--p	00000000	fe:01	5776756	/usr/local/lib/libruby.so
.3.0.0					
7fd3a5363000-7fd3a55d9000	r-xp	00030000	fe:01	5776756	/usr/local/lib/libruby.so
.3.0.0					
7fd3a55d9000-7fd3a56dc000	r--p	002a6000	fe:01	5776756	/usr/local/lib/libruby.so
.3.0.0					
7fd3a56dc000-7fd3a56dd000	---p	003a9000	fe:01	5776756	/usr/local/lib/libruby.so
.3.0.0					
7fd3a56dd000-7fd3a56e4000	r--p	003a9000	fe:01	5776756	/usr/local/lib/libruby.so
.3.0.0					
7fd3a56e4000-7fd3a56e7000	rw-p	003b0000	fe:01	5776756	/usr/local/lib/libruby.so
.3.0.0					
7fd3a56e7000-7fd3a56fa000	rw-p	00000000	00:00	0	
7fd3a56fa000-7fd3a56fb000	r--p	00000000	fe:01	5393389	/lib/x86_64-linux-gnu/ld-
2.28.so					
7fd3a56fb000-7fd3a5719000	r-xp	00001000	fe:01	5393389	/lib/x86_64-linux-gnu/ld-
2.28.so					
7fd3a5719000-7fd3a5721000	r--p	0001f000	fe:01	5393389	/lib/x86_64-linux-gnu/ld-
2.28.so					
7fd3a5721000-7fd3a5722000	r--p	00026000	fe:01	5393389	/lib/x86_64-linux-gnu/ld-
2.28.so					
7fd3a5722000-7fd3a5723000	rw-p	00027000	fe:01	5393389	/lib/x86_64-linux-gnu/ld-
2.28.so					
7fd3a5723000-7fd3a5724000	rw-p	00000000	00:00	0	

```
7fffd105e1000-7fffd10de0000 rw-p 00000000 00:00 0 [stack]
7fffd10de9000-7fffd10dec000 r--p 00000000 00:00 0 [vvar]
7fffd10dec000-7fffd10ded000 r-xp 00000000 00:00 0 [vdso]
fffffffff600000-fffffffff601000 r-xp 00000000 00:00 0 [vsyscall]
```

When it happens on a debug build there is this extra error message:

```
<OBJ_INFO:gc_mark_ptr@gc.c:6119> 0x00007fe21804b4f0 [2XXXX] T_NONE
/tmp/test.rb:1: [BUG] try to mark T_NONE object
ruby 3.1.0dev (2021-01-31T09:48:28Z master 22b8ddfd10) [x86_64-darwin19]
```

Associated revisions

Revision 969b824a0c7605e0e570631d967ad0de0c37d0bf - 02/18/2021 07:40 AM - ko1 (Koichi Sasada)

sync GC rest if needed

marking requires a barrier (stop all Ractors) and gc_enter() does it.
However, it doesn't check rest event which can start marking.
[Bug #17599]

Revision 969b824a0c7605e0e570631d967ad0de0c37d0bf - 02/18/2021 07:40 AM - ko1 (Koichi Sasada)

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marking requires a barrier (stop all Ractors) and gc_enter() does it.
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[Bug #17599]

Revision 969b824a - 02/18/2021 07:40 AM - ko1 (Koichi Sasada)

sync GC rest if needed

marking requires a barrier (stop all Ractors) and gc_enter() does it.
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[Bug #17599]

Revision 100e464bee46ae71ef048ed85a9bdd012935a3f7 - 02/18/2021 08:04 AM - ko1 (Koichi Sasada)

clear RVALUE on NEWOBJ event.

NEWOBJ event is called without clearing RVALUE values (v1, v2, v3).
This patch clear them before NEWOBJ tracepoint internal hook.
[Bug #17599]

Revision 100e464bee46ae71ef048ed85a9bdd012935a3f7 - 02/18/2021 08:04 AM - ko1 (Koichi Sasada)

clear RVALUE on NEWOBJ event.

NEWOBJ event is called without clearing RVALUE values (v1, v2, v3).
This patch clear them before NEWOBJ tracepoint internal hook.
[Bug #17599]

Revision 100e464b - 02/18/2021 08:04 AM - ko1 (Koichi Sasada)

clear RVALUE on NEWOBJ event.

NEWOBJ event is called without clearing RVALUE values (v1, v2, v3).
This patch clear them before NEWOBJ tracepoint internal hook.
[Bug #17599]

Revision b49264ab7aa92f64a806857d7e81b3f1cbba5585 - 03/02/2021 01:00 PM - naruse (Yui NARUSE)

merge revision(s) 969b824a0c7605e0e570631d967ad0de0c37d0bf,100e464bee46ae71ef048ed85a9bdd012935a3f7: [Backport #17599]

```
sync GC rest if needed
```

```
marking requires a barrier (stop all Ractors) and gc_enter() does it.
However, it doesn't check rest event which can start marking.
[Bug #17599]
---
gc.c | 3 +++
1 file changed, 3 insertions(+)
```

```
clear RVALUE on NEWOBJ event.
```

```
NEWOBJ event is called without clearing RVALUE values (v1, v2, v3).  
This patch clear them before NEWOBJ tracepoint internal hook.  
[Bug #17599]  
---  
gc.c | 27 ++++++++-----  
1 file changed, 15 insertions(+), 12 deletions(-)
```

Revision b49264ab7aa92f64a806857d7e81b3f1cbba5585 - 03/02/2021 01:00 PM - naruse (Yui NARUSE)

merge revision(s) 969b824a0c7605e0e570631d967ad0de0c37d0bf,100e464bee46ae71ef048ed85a9bdd012935a3f7: [Backport #17599]

```
sync GC rest if needed
```

```
marking requires a barrier (stop all Ractors) and gc_enter() does it.  
However, it doesn't check rest event which can start marking.  
[Bug #17599]  
---  
gc.c | 3 +++  
1 file changed, 3 insertions(+)
```

```
clear RVALUE on NEWOBJ event.
```

```
NEWOBJ event is called without clearing RVALUE values (v1, v2, v3).  
This patch clear them before NEWOBJ tracepoint internal hook.  
[Bug #17599]  
---  
gc.c | 27 ++++++++-----  
1 file changed, 15 insertions(+), 12 deletions(-)
```

Revision b49264ab - 03/02/2021 01:00 PM - naruse (Yui NARUSE)

merge revision(s) 969b824a0c7605e0e570631d967ad0de0c37d0bf,100e464bee46ae71ef048ed85a9bdd012935a3f7: [Backport #17599]

```
sync GC rest if needed
```

```
marking requires a barrier (stop all Ractors) and gc_enter() does it.  
However, it doesn't check rest event which can start marking.  
[Bug #17599]  
---  
gc.c | 3 +++  
1 file changed, 3 insertions(+)
```

```
clear RVALUE on NEWOBJ event.
```

```
NEWOBJ event is called without clearing RVALUE values (v1, v2, v3).  
This patch clear them before NEWOBJ tracepoint internal hook.  
[Bug #17599]  
---  
gc.c | 27 ++++++++-----  
1 file changed, 15 insertions(+), 12 deletions(-)
```

History

#1 - 02/01/2021 10:34 PM - xtkoba (Tee KOBAYASHI)

The 10.times version of code always crashes in my environment:

```
ruby 3.1.0dev (2021-02-02 master 5803ac1c73) [x86_64-linux]
```

I noticed that the crash disappears when RGENGC_CHECK_MODE is set to 1, and now I have tracked down a minimal change to suppress the crash:

```
--- a/gc.c  
+++ b/gc.c  
@@ -2094,9 +2094,9 @@  
     rb_ractor_setup_belonging(obj);  
 #endif  
  
-#if RGENGC_CHECK_MODE  
     p->as.values.v1 = p->as.values.v2 = p->as.values.v3 = 0;  
+#if RGENGC_CHECK_MODE  
     RB_VM_LOCK_ENTER_NO_BARRIER();  
     {
```



```
check_rvalue_consistency(obj);
```

This might not be a solution, but it surely has some side effect at least.

#2 - 02/02/2021 05:20 AM - ko1 (Koichi Sasada)

- Status changed from Open to Assigned

- Assignee set to ko1 (Koichi Sasada)

Thank you!

#3 - 02/06/2021 11:00 AM - wanabe (_ wanabe)

Shouldn't the call to gc_event_hook() come after newobj_fill()?

Like this:

```
diff --git a/gc.c b/gc.c
index 30badf975f..dc90e6177f 100644
--- a/gc.c
+++ b/gc.c
@@ -2254,7 +2254,6 @@ newobj_slowpath(VALUE klass, VALUE flags, rb_objspace_t *objspace, rb_ractor_t *
     }
     GC_ASSERT(obj != 0);
     newobj_init(klass, flags, wb_protected, objspace, obj);
-    gc_event_hook(objspace, RUBY_INTERNAL_EVENT_NEWOBJ, obj);
 }
 RB_VM_LOCK_LEAVE_CR_LEV(cr, &lev);

@@ -2279,7 +2278,17 @@ newobj_slowpath_wb_unprotected(VALUE klass, VALUE flags, rb_objspace_t *objspace
 }

 static inline VALUE
-newobj_of0(VALUE klass, VALUE flags, int wb_protected, rb_ractor_t *cr)
+newobj_fill(VALUE obj, VALUE v1, VALUE v2, VALUE v3)
+{
+    RVALUE *p = (RVALUE *)obj;
+    p->as.values.v1 = v1;
+    p->as.values.v2 = v2;
+    p->as.values.v3 = v3;
+    return obj;
+}
+
+static inline VALUE
+newobj_of_cr(rb_ractor_t *cr, VALUE klass, VALUE flags, VALUE v1, VALUE v2, VALUE v3, int wb_protected)
+{
+    VALUE obj;
+    rb_objspace_t *objspace = &rb_objspace;
@@ -2303,6 +2312,7 @@ newobj_of0(VALUE klass, VALUE flags, int wb_protected, rb_ractor_t *cr)
     (obj = ractor_cached_freeobj(objspace, cr)) != Qfalse)) {
         newobj_init(klass, flags, wb_protected, objspace, obj);
+        newobj_fill(obj, v1, v2, v3);
     }
     else {
         RB_DEBUG_COUNTER_INC(obj_newobj_slowpath);
@@ -2310,33 +2320,17 @@ newobj_of0(VALUE klass, VALUE flags, int wb_protected, rb_ractor_t *cr)
     obj = wb_protected ?
         newobj_slowpath_wb_protected(klass, flags, objspace, cr) :
         newobj_slowpath_wb_unprotected(klass, flags, objspace, cr);
+    newobj_fill(obj, v1, v2, v3);
+    gc_event_hook(objspace, RUBY_INTERNAL_EVENT_NEWOBJ, obj);
 }

     return obj;
 }

-static inline VALUE
-newobj_fill(VALUE obj, VALUE v1, VALUE v2, VALUE v3)
-{
-    RVALUE *p = (RVALUE *)obj;
-    p->as.values.v1 = v1;
-    p->as.values.v2 = v2;
-    p->as.values.v3 = v3;
-    return obj;
-}
```

```

-}
-
static inline VALUE
newobj_of(VALUE klass, VALUE flags, VALUE v1, VALUE v2, VALUE v3, int wb_protected)
{
    VALUE obj = newobj_of0(klass, flags, wb_protected, GET_RACTOR());
    return newobj_fill(obj, v1, v2, v3);
-}
-
-static inline VALUE
newobj_of_cr(rb_ractor_t *cr, VALUE klass, VALUE flags, VALUE v1, VALUE v2, VALUE v3, int wb_protected)
-{
    VALUE obj = newobj_of0(klass, flags, wb_protected, cr);
    return newobj_fill(obj, v1, v2, v3);
+    return newobj_of_cr(GET_RACTOR(), klass, flags, v1, v2, v3, wb_protected);
}

VALUE

```

#4 - 02/08/2021 09:56 AM - byroot (Jean Boussier)

[@wanabe \(_ wanabe \)](#) I just tested your patch and it seems to work. Thank you!

#5 - 02/18/2021 07:41 AM - ko1 (Koichi Sasada)

- Status changed from Assigned to Closed

Applied in changeset [git\[969b824a0c7605e0e570631d967ad0de0c37d0bf\]](#).

sync GC rest if needed

marking requires a barrier (stop all Ractors) and gc_enter() does it.

However, it doesn't check rest event which can start marking.

[Bug [#17599](#)]

#6 - 02/18/2021 08:04 AM - ko1 (Koichi Sasada)

- Backport changed from 2.5: UNKNOWN, 2.6: UNKNOWN, 2.7: UNKNOWN, 3.0: UNKNOWN to 2.5: UNKNOWN, 2.6: UNKNOWN, 2.7: UNKNOWN, 3.0: REQUIRED

#7 - 02/18/2021 03:10 PM - byroot (Jean Boussier)

[@ko1 \(Koichi Sasada\)](#) I'm not sure your patch is quite enough, after it is applied I still see the crash in real world scenario, however with [@wanabe \(_ wanabe \)](#)'s patch it is indeed fixed.

Maybe there was two distinct bugs? I'll see if I can reduce another reproduction script.

#8 - 02/18/2021 05:57 PM - byroot (Jean Boussier)

Actually turns out the same repro script still crash

```

# frozen_string_literal: true
GC.stress = true
require 'objspace'
ObjectSpace.trace_object_allocations_start
10.times { Object.new }

$ ruby -v
ruby 3.1.0dev (2021-02-18T17:46:48Z shopify 969b824a0c) [x86_64-linux]
$ ruby lib/crash.rb
<OBJ_INFO:gc_mark_ptr@gc.c:6110> 0x00007f10b63324c0 [0XXXX] T_NONE
lib/crash.rb:5: [BUG] try to mark T_NONE object
ruby 3.1.0dev (2021-02-18T17:46:48Z shopify 969b824a0c) [x86_64-linux]

-- Control frame information -----
c:0002 p:0038 s:0007 e:000005 EVAL   lib/crash.rb:5 [FINISH]
c:0001 p:0000 s:0003 E:001700 (none) [FINISH]

-- Ruby level backtrace information -----
lib/crash.rb:5:in `<main>'

-- C level backtrace information -----
/usr/local/lib/libruby.so.3.1(rb_print_backtrace+0x11) [0x7f10bbc380bb] vm_dump.c:758
/usr/local/lib/libruby.so.3.1(rb_vm_bugreport) vm_dump.c:1042

```

```

/usr/local/lib/libruby.so.3.1(bug_report_end+0x0) [0x7f10bba41207] error.c:778
/usr/local/lib/libruby.so.3.1(rb_bug_without_die) error.c:778
/usr/local/lib/libruby.so.3.1(die+0x0) [0x7f10bb9a6d31] error.c:786
/usr/local/lib/libruby.so.3.1(rb_bug) error.c:788
/usr/local/lib/libruby.so.3.1(gc_mark_ptr+0xd8) [0x7f10bba671a8] gc.c:6111
/usr/local/lib/libruby.so.3.1(gc_mark+0x15) [0x7f10bba68701] gc.c:6144
/usr/local/lib/libruby.so.3.1(gc_mark_children) gc.c:6411
/usr/local/lib/libruby.so.3.1(gc_mark_stacked_objects+0x3d) [0x7f10bba69ce8] gc.c:6464
/usr/local/lib/libruby.so.3.1(gc_mark_stacked_objects_incremental) gc.c:6498
/usr/local/lib/libruby.so.3.1(gc_marks_rest) gc.c:7446
/usr/local/lib/libruby.so.3.1(gc_rest+0x158) [0x7f10bba6ae58] gc.c:8357
/usr/local/lib/libruby.so.3.1(gc_rest+0x8) [0x7f10bba6f3b5] gc.c:8532
/usr/local/lib/libruby.so.3.1(garbage_collect) gc.c:8218
/usr/local/lib/libruby.so.3.1(garbage_collect_with_gvl) gc.c:8532
/usr/local/lib/libruby.so.3.1(objspace_malloc_gc_stress) gc.c:10455
/usr/local/lib/libruby.so.3.1(objspace_malloc_gc_stress) gc.c:10446
/usr/local/lib/libruby.so.3.1(objspace_xmalloc0) gc.c:10630
/usr/local/lib/libruby.so.3.1(ruby_xmalloc0) gc.c:10851
/usr/local/lib/libruby.so.3.1(ruby_xmalloc_body) gc.c:10860
/usr/local/lib/libruby.so.3.1(ruby_xmalloc) gc.c:12802
/usr/local/lib/ruby/3.1.0/x86_64-linux/objspace.so(make_unique_str+0x89) [0x7f10bb2f70d9] object_tracing.c:46
/usr/local/lib/ruby/3.1.0/x86_64-linux/objspace.so(newobj_i+0x9b) [0x7f10bb2f795b] object_tracing.c:84
/usr/local/lib/libruby.so.3.1(tp_call_trace+0x32) [0x7f10bbc397c2] vm_trace.c:1115
/usr/local/lib/libruby.so.3.1(exec_hooks_body+0x86) [0x7f10bbc398e6] vm_trace.c:304
/usr/local/lib/libruby.so.3.1(exec_hooks_postcheck+0x0) [0x7f10bbc3ba93] vm_trace.c:333
/usr/local/lib/libruby.so.3.1(exec_hooks_unprotected) vm_trace.c:334
/usr/local/lib/libruby.so.3.1(rb_exec_event_hooks) vm_trace.c:378
/usr/local/lib/libruby.so.3.1(rb_exec_event_hook_orig+0x40) [0x7f10bba59fb6] vm_core.h:1985
/usr/local/lib/libruby.so.3.1(gc_event_hook_body) gc.c:2069
/usr/local/lib/libruby.so.3.1(newobj_slowpath+0x1a8) [0x7f10bba6db50] gc.c:2257
/usr/local/lib/libruby.so.3.1(newobj_slowpath_wb_protected) gc.c:2272
/usr/local/lib/libruby.so.3.1(newobj_of0+0xe) [0x7f10bba6dede] gc.c:2311
/usr/local/lib/libruby.so.3.1(newobj_of) gc.c:2331
/usr/local/lib/libruby.so.3.1(rb_imemo_new) gc.c:2417
/usr/local/lib/libruby.so.3.1(vm_search_cc+0x60) [0x7f10bbc13530] vm_callinfo.h:300
/usr/local/lib/libruby.so.3.1(rb_vm_search_method_slowpath) vm_insnhelper.c:1734
/usr/local/lib/libruby.so.3.1(vm_search_method_slowpath0+0x5) [0x7f10bbc1377a] vm_insnhelper.c:1756
/usr/local/lib/libruby.so.3.1(vm_search_method_fastpath) vm_insnhelper.c:1822
/usr/local/lib/libruby.so.3.1(vm_sendish) vm_insnhelper.c:4524
/usr/local/lib/libruby.so.3.1(vm_exec_core+0x1f9) [0x7f10bbc1cdc9] insns.def:770
/usr/local/lib/libruby.so.3.1(rb_vm_exec+0x1a4) [0x7f10bbc22924] vm.c:2162
/usr/local/lib/libruby.so.3.1(rb_ec_exec_node+0xed) [0x7f10bba45f0d] eval.c:317
/usr/local/lib/libruby.so.3.1(ruby_run_node+0x5a) [0x7f10bba4beaa] eval.c:375
/usr/local/bin/ruby(main+0x73) [0x556210db31d3] ./main.c:47

```

#9 - 02/22/2021 10:56 AM - byroot (Jean Boussier)

Ok, so @tenderlove identified <https://github.com/ruby/ruby/commit/100e464bee46ae71ef048ed85a9bdd012935a3f7> as the second commit that need to be backported to fix this issue.

#10 - 03/11/2021 11:17 AM - naruse (Yui NARUSE)

- Backport changed from 2.5: UNKNOWN, 2.6: UNKNOWN, 2.7: UNKNOWN, 3.0: REQUIRED to 2.5: UNKNOWN, 2.6: UNKNOWN, 2.7: UNKNOWN, 3.0: DONE

ruby_3_0 b49264ab7aa92f64a806857d7e81b3f1cbba5585 merged revision(s)
969b824a0c7605e0e570631d967ad0de0c37d0bf,100e464bee46ae71ef048ed85a9bdd012935a3f7.