

## Ruby 1.8 - Bug #199

### Possible patches for critical segfaults and vulnerabilities available for review in ruby-talk

06/25/2008 10:04 AM - Anonymous

<b>Status:</b>	Closed
<b>Priority:</b>	Normal
<b>Assignee:</b>	
<b>Target version:</b>	
<b>ruby -v:</b>	
<b>Description</b>	
=begin All currently available official versions of MRI Ruby are either vulnerable, failing with segmentation faults, or change the API in ways that make it impossible to run critical Ruby libraries such as Rails 2.0 and RSpec.	
There are currently two unofficial patches submitted by ruby-talk members that seem to fix these problems:	
<ul style="list-style-type: none"><li>• <a href="http://www.ruby-forum.com/topic/157034#693292">http://www.ruby-forum.com/topic/157034#693292</a></li><li>• <a href="http://www.ruby-forum.com/topic/157034#693303">http://www.ruby-forum.com/topic/157034#693303</a></li></ul>	
One is a backport of fixes to 1.8.6p111 by Stanislav Sedov and Hongli Lai. The other is a fix to 1.8.6p230 by Smartleaf which reverts a recent patch that's causing segmentation faults. I've attached these files to this ticket.	
I've personally confirmed that both of these work as well as the stock 1.8.6p111 in running the Rails 2.0, RSpec 1.1.4, and RubySpec test suites. However, I do not understand the C patches well enough to be able to help with them myself.	
Can one of the Ruby maintainers please review these patches and join in the discussion at ruby-talk or the online thread at <a href="http://www.ruby-forum.com/topic/157034">http://www.ruby-forum.com/topic/157034</a> ?	
Thank you!	
-igal =end	

#### Associated revisions

##### Revision 5c17ceb012bf172cc8f0c908e769bb0abb4c3338 - 01/26/2010 06:06 PM - wyhaines (Kirk Haines)

Backport #2039 [ruby-core:25339]; backported r24413, r24416, r24442 to fix a problem with IO#select and threads. This is the same issue as Bug #199  
3 [ruby-core:25114].

git-svn-id: svn+ssh://ci.ruby-lang.org/ruby/branches/ruby\_1\_8\_6@26435 b2dd03c8-39d4-4d8f-98ff-823fe69b080e

##### Revision 5c17ceb0 - 01/26/2010 06:06 PM - wyhaines (Kirk Haines)

Backport #2039 [ruby-core:25339]; backported r24413, r24416, r24442 to fix a problem with IO#select and threads. This is the same issue as Bug #199  
3 [ruby-core:25114].

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##### Revision e3e8af93 - 02/16/2018 02:45 PM - k0kubun (Takashi Kokubun)

mjit.c: fix deadlock on class serial increment

This is reported by @hasimo. Fixing a case like this:

```
#0 Ill_lock_wait () at ../sysdeps/unix/sysv/linux/x86_64/lowlevellock.S:135
#1 0x00007fc7bd824dbd in __GI_pthread_mutex_lock (mutex=mutex@entry=0x55946d294440 ) at ../nptl/pthread_mutex_lock.c:80
#2 0x000055946cec54d9 in rb_native_mutex_lock (lock=lock@entry=0x55946d294440 ) at thread_pthread.c:211
#3 0x000055946cde10ca in CRITICAL_SECTION_START (msg=0x55946cfb5423 "mjit_gc_start_hook", level=4) at mjit.c:392
#4 mjit_gc_start_hook () at mjit.c:412
#5 0x000055946cda0dfe in gc_enter (event=0x55946cfaf91e "gc_rest", objspace=0x55946da51760) at gc.c:6623
#6 gc_rest (objspace=objspace@entry=0x55946da51760) at gc.c:6515
#7 0x000055946cd9f1cf in gc_rest (objspace=0x55946da51760) at gc.c:7841
#8 objspace_malloc_increase (objspace=objspace@entry=0x55946da51760, new_size=, old_size=old_size@entry=0,
```

type=type@entry=MEMOP\_TYPE\_MALLOC, mem=0x7fc7a4439010) at gc.c:7842  
#9 0x000055946cda1706 in objspace\_malloc\_fixup (size=, mem=0x7fc7a4439010, objspace=0x55946da51760) at gc.c:7910  
#10 objspace\_xmalloc0 (objspace=0x55946da51760, size=, size@entry=3145728) at gc.c:7939  
#11 0x000055946cda3620 in ruby\_xmalloc0 (size=3145728) at gc.c:8006  
#12 ruby\_xmalloc (size=size@entry=3145728) at gc.c:8015  
#13 0x000055946ce93f4c in st\_init\_table\_with\_size (type=0x55946d28da30, size=) at st.c:602  
#14 0x000055946ce94287 in rebuild\_table (tab=tab@entry=0x55946db669f0) at st.c:777  
#15 0x000055946ce963f7 in rebuild\_table\_if\_necessary (tab=0x55946db669f0) at st.c:1139  
#16 st\_add\_direct\_with\_hash (hash=8577035585096733536, value=20, key=808451, tab=0x55946db669f0) at st.c:1207  
#17 st\_update (tab=0x55946db669f0, key=key@entry=808451, func=, arg=140726472841392) at st.c:1512  
#18 0x000055946cda9e27 in tbl\_update (optional\_arg=, func=, key=, hash=) at hash.c:561  
#19 rb\_hash\_aset (hash=94095983218480, key=key@entry=808451, val=val@entry=20) at hash.c:1654  
#20 0x000055946cde243a in mjit\_add\_class\_serial (class\_serial=class\_serial@entry=404225) at mjit.c:1414 3  
#21 0x000055946cefcfab in rb\_next\_class\_serial () at vm.c:321  
#22 0x000055946cf48324 in class\_alloc (klass=, flags=28) at class.c:178  
#23 rb\_include\_class\_new (module=module@entry=94096115733840, super=0) at class.c:820  
#24 0x000055946cf487ac in include\_modules\_at (klass=class@entry=94096135960920, c=, module=, module@entry=94096115734160, search\_super=search\_super@entry=1) at class.c:913  
#25 0x000055946cf48ac8 in rb\_include\_module (klass=94096135960920, module=module@entry=94096115734160) at class.c:870  
#26 0x000055946cd84993 in rb\_mod\_append\_features (module=94096115734160, include=) at eval.c:1178  
#27 0x000055946cf06829 in vm\_call0\_cfunc\_with\_frame (ci=0x7ffd6f6c9a20, cc=0x7ffd6f6c9ba0, argv=0x7ffd6f6c9ba0, calling=0x7ffd6f6c9a30, ec=0x55946da519c8) at vm\_eval.c:87  
#28 vm\_call0\_cfunc (argv=0x7ffd6f6c9ba0, cc=0x7ffd6f6c9ba0, ci=0x7ffd6f6c9a20, calling=0x7ffd6f6c9a30, ec=0x55946da519c8) at vm\_eval.c:102  
#29 vm\_call0\_body (ec=ec@entry=0x55946da519c8, calling=calling@entry=0x7ffd6f6c9ae0, ci=ci@entry=0x7ffd6f6c9ad0, cc=cc@entry=0x7ffd6f6c9b00, argv=argv@entry=0x7ffd6f6c9ba0) at vm\_eval.c:133  
#30 0x000055946cf074b2 in vm\_call0 (me=, argv=0x7ffd6f6c9ba0, argc=1, id=4849, recv=94096115734160, ec=0x55946da519c8) at vm\_eval.c:60  
#31 rb\_call0 (ec=0x55946da519c8, recv=94096115734160, mid=4849, mid@entry=94096135960920, argc=argc@entry=1, argv=argv@entry=0x7ffd6f6c9ba0, scope=scope@entry=CALL\_FCALL, self=94096135960920) at vm\_eval.c:302  
#32 0x000055946cf07b9b in rb\_call (scope=CALL\_FCALL, argv=0x7ffd6f6c9ba0, argc=1, mid=94096135960920, recv=) at vm\_eval.c:595  
#33 rb\_funcallv (recv=, mid=mid@entry=4849, argc=argc@entry=1, argv=argv@entry=0x7ffd6f6c9ba0) at vm\_eval.c:825  
#34 0x000055946cd848a7 in rb\_mod\_include (argc=0, argv=0x7fc7bdb4fce8, module=94096135960920) at eval.c:1203  
#35 0x000055946cefb61f in vm\_call\_cfunc\_with\_frame (ci=0x5594710c06b0, cc=, calling=, reg\_cfp=0x7fc7bdc4df00, ec=0x55946da519c8) at vm\_inshelper.c:1928  
#36 vm\_call\_cfunc (ec=0x55946da519c8, reg\_cfp=0x7fc7bdc4df00, calling=, ci=0x5594710c06b0, cc=) at vm\_inshelper.c:1944  
#37 0x000055946cf0b5c2 in vm\_exec\_core (ec=ec@entry=0x55946da519c8, initial=initial@entry=0) at /tmp/ruby-build.20180216151216.13740/ruby-trunk/insns.def:779  
#38 0x000055946cf02f4c in vm\_exec (ec=ec@entry=0x55946da519c8) at vm.c:1804  
#39 0x000055946cf035fc in invoke\_block (captured=0x7ffd6f6ca0a0, opt\_pc=, type=, cref=0x559476c23930, self=94096135960920, iseq=0x559471335ee0, ec=0x55946da519c8) at vm.c:1005  
#40 invoke\_iseq\_block\_from\_c (ec=0x55946da519c8, captured=0x7ffd6f6ca0a0, self=94096135960920, argc=, argv=, passed\_block\_handler=0, cref=0x559476c23930, is\_lambda=0) at vm.c:1057  
#41 0x000055946cf04520 in invoke\_block\_from\_c\_bh (ec=ec@entry=0x55946da519c8, block\_handler=, argc=argc@entry=1, argv=argv@entry=0x7ffd6f6ca108, cref=, is\_lambda=, is\_lambda@entry=0, force\_blockarg=0, passed\_block\_handler=0) at vm.c:1075  
#42 0x000055946cf04958 in vm\_yield\_with\_cref (is\_lambda=0, cref=, argv=0x7ffd6f6ca108, argc=1, ec=0x55946da519c8) at vm.c:1112  
#43 yield\_under (under=94096135960920, self=, argc=argc@entry=1, argv=argv@entry=0x7ffd6f6ca108) at vm\_eval.c:1572  
#44 0x000055946cf04b12 in rb\_mod\_module\_exec (argc=argc@entry=1, argv=argv@entry=0x7ffd6f6ca108, mod=) at vm\_eval.c:1770  
#45 0x000055946ce00fc6 in rb\_mod\_initialize (module=94096135960920) at object.c:1978  
#46 0x000055946cf06829 in vm\_call0\_cfunc\_with\_frame (ci=0x7ffd6f6ca130, cc=0x7fc7bdb4fc98, argv=0x7fc7bdb4fc98, calling=0x7ffd6f6ca140, ec=0x55946da519c8) at vm\_eval.c:87  
#47 vm\_call0\_cfunc (argv=0x7fc7bdb4fc98, cc=0x7fc7bdb4fc98, ci=0x7ffd6f6ca130, calling=0x7ffd6f6ca140, ec=0x55946da519c8) at vm\_eval.c:102  
#48 vm\_call0\_body (ec=ec@entry=0x55946da519c8, calling=calling@entry=0x7ffd6f6ca1f0, ci=ci@entry=0x7ffd6f6ca1e0, cc=cc@entry=0x7ffd6f6ca210, argv=argv@entry=0x7fc7bdb4fc98) at vm\_eval.c:133  
#49 0x000055946cf074b2 in vm\_call0 (me=, argv=0x7fc7bdb4fc98, argc=0, id=3057, recv=94096135960920, ec=0x55946da519c8) at vm\_eval.c:60  
#50 rb\_call0 (ec=0x55946da519c8, recv=recv@entry=94096135960920, mid=mid@entry=3057, argc=argc@entry=3057, argv=argv@entry=0x0, scope=scope@entry=CALL\_FCALL, self=94095983466120) at vm\_eval.c:302  
#51 0x000055946cf07b9b in rb\_call (scope=CALL\_FCALL, argv=0x0, argc=3057, mid=3057, recv=94096135960920) at vm\_eval.c:595  
#52 rb\_funcallv (recv=recv@entry=94096135960920, mid=mid@entry=3057, argc=argc@entry=0, argv=argv@entry=0x7fc7bdb4fc98) at vm\_eval.c:825  
#53 0x000055946cd89673 in rb\_obj\_call\_init (obj=obj@entry=94096135960920, argc=argc@entry=0, argv=argv@entry=0x7fc7bdb4fc98) at eval.c:1590  
#54 0x000055946ce048a1 in rb\_class\_s\_new (argc=0, argv=0x7fc7bdb4fc98, klass=) at object.c:2153  
#55 0x000055946cefb61f in vm\_call\_cfunc\_with\_frame (ci=0x559471339c80, cc=, calling=, reg\_cfp=0x7fc7bdc4dfa8, ec=0x55946da519c8) at vm\_inshelper.c:1928  
#56 vm\_call\_cfunc (ec=0x55946da519c8, reg\_cfp=0x7fc7bdc4dfa8, calling=, ci=0x559471339c80, cc=) at vm\_inshelper.c:1944  
#57 0x000055946cf0cb05 in vm\_exec\_core (ec=ec@entry=0x55946da519c8, initial=initial@entry=0) at /tmp/ruby-build.20180216151216.13740/ruby-trunk/insns.def:716  
#58 0x000055946cf02f4c in vm\_exec (ec=ec@entry=0x55946da519c8) at vm.c:1804  
#59 0x000055946cf03274 in invoke\_bmethod (ec=ec@entry=0x55946da519c8, iseq=iseq@entry=0x55946f15cbc0, self=self@entry=94096115734640, me=me@entry=0x559475664e28, type=type@entry=572653825, opt\_pc=0, captured=0x55947158e8a0) at vm.c:1026  
#60 0x000055946cf03534 in invoke\_iseq\_block\_from\_c (ec=0x55946da519c8, captured=0x55947158e8a0, self=94096115734640, argc=, argv=, passed\_block\_handler=0, cref=0x0, is\_lambda=1) at vm.c:1060  
#61 0x000055946cf036ce in invoke\_block\_from\_c\_proc (ec=, proc=, self=, argc=1, argv=, passed\_block\_handler=, is\_lambda=) at vm.c:1150  
#62 0x000055946cf03811 in vm\_invoke\_bmethod (block\_handler=, argv=, argc=1, self=, proc=, ec=0x55946da519c8) at vm.c:1175  
#63 vm\_call\_bmethod\_body (ci=, cc=0x55946f625960, argv=, calling=0x7ffd6f6ca9b0, ec=0x55946da519c8) at vm\_inshelper.c:1971

#64 vm\_call\_bmethod (ec=0x55946da519c8, cfp=0x7fc7bdc4e0c0, calling=0x7ffd6f6ca9b0, ci=, cc=0x55946f625960) at vm\_inshelper.c:1988  
#65 0x000055946cf03ea3 in vm\_call\_method (ec=0x55946da519c8, cfp=0x7fc7bdc4e0c0, calling=, ci=, cc=) at vm\_inshelper.c:2417  
#66 0x000055946cf0e63e in vm\_exec\_core (ec=ec@entry=0x55946da519c8, initial=initial@entry=0) at /tmp/ruby-build.20180216151216.13740/ruby-trunk/insns.def:797  
#67 0x000055946cf02f4c in vm\_exec (ec=ec@entry=0x55946da519c8) at vm.c:1804  
#68 0x000055946cf06767 in vm\_call0\_body (ec=ec@entry=0x55946da519c8, calling=calling@entry=0x7ffd6f6cad00, ci=ci@entry=0x7ffd6f6cacf0, cc=cc@entry=0x7ffd6f6cad20, argv=argv@entry=0x7ffd6f6cadb0) at vm\_eval.c:129  
#69 0x000055946cf074b2 in vm\_call0 (me=, argv=0x7ffd6f6cadb0, argc=1, id=3681, recv=94096115734640, ec=0x55946da519c8) at vm\_eval.c:60  
#70 rb\_call0 (ec=0x55946da519c8, recv=recv@entry=94096115734640, mid=3681, argc=argc@entry=1, argv=argv@entry=0x7ffd6f6cad90, scope=scope@entry=CALL\_FCALL, self=94095983452880) at vm\_eval.c:302  
#71 0x000055946cf07b9b in rb\_call (scope=CALL\_FCALL, argv=0x7ffd6f6cad90, argc=1, mid=, recv=94096115734640) at vm\_eval.c:595  
#72 rb\_funcallv (recv=recv@entry=94096115734640, mid=, argc=argc@entry=1, argv=argv@entry=0x7ffd6f6cadb0) at vm\_eval.c:825  
#73 0x000055946cf477d2 in rb\_class\_inherited (super=super@entry=94096115734640, klass=klass@entry=94096135961440) at class.c:625  
#74 0x000055946cf0f796 in vm\_declare\_class (super=, cbase=94096094868200, flags=, id=847387) at vm\_inshelper.c:3134  
#75 vm\_define\_class (super=, cbase=, flags=, id=847387) at vm\_inshelper.c:3167  
#76 vm\_find\_or\_create\_class\_by\_id (super=, cbase=, flags=, id=847387) at vm\_inshelper.c:3196  
#77 vm\_exec\_core (ec=ec@entry=0x55946da519c8, initial=initial@entry=0) at /tmp/ruby-build.20180216151216.13740/ruby-trunk/insns.def:685  
#78 0x000055946cf02f4c in vm\_exec (ec=0x55946da519c8) at vm.c:1804  
#79 0x000055946cf118d1 in rb\_iseq\_eval (iseq=iseq@entry=0x559471f1b548) at vm.c:2046  
#80 0x000055946cdd2164 in rb\_load\_internal0 (ec=ec@entry=0x55946da519c8, fname=fname@entry=94096135872160, wrap=wrap@entry=0) at load.c:611  
#81 0x000055946cdd41f1 in rb\_require\_internal (fname=94096135872400, fname@entry=94096135872440, safe=0) at load.c:992  
#82 0x000055946cdd4493 in rb\_require\_safe (safe=, fname=94096135872440) at load.c:1038  
#83 rb\_f\_require (obj=, fname=94096135872440) at load.c:820  
#84 0x000055946cefb61f in vm\_call\_cfunc\_with\_frame (ci=0x5594708700a0, cc=, calling=, reg\_cfp=0x7fc7bdc4e168, ec=0x55946da519c8) at vm\_inshelper.c:1928  
#85 vm\_call\_cfunc (ec=0x55946da519c8, reg\_cfp=0x7fc7bdc4e168, calling=, ci=0x5594708700a0, cc=) at vm\_inshelper.c:1944  
#86 0x000055946cf03ea3 in vm\_call\_method (ec=0x55946da519c8, cfp=0x7fc7bdc4e168, calling=, ci=, cc=) at vm\_inshelper.c:2417  
#87 0x000055946cf0e63e in vm\_exec\_core (ec=ec@entry=0x55946da519c8, initial=initial@entry=0) at /tmp/ruby-build.20180216151216.13740/ruby-trunk/insns.def:797  
#88 0x000055946cf02f4c in vm\_exec (ec=ec@entry=0x55946da519c8) at vm.c:1804  
#89 0x000055946cf035fc in invoke\_block (captured=0x7fc7bdc4e490, opt\_pc=, type=, cref=0x0, self=94096096426480, iseq=0x55946e49f0b8, ec=0x55946da519c8) at vm.c:1005  
#90 invoke\_iseq\_block\_from\_c (ec=0x55946da519c8, captured=0x7fc7bdc4e490, self=94096096426480, argc=, argv=, passed\_block\_handler=0, cref=0x0, is\_lambda=0) at vm.c:1057  
#91 0x000055946cf04699 in invoke\_block\_from\_c\_bh (argc=, passed\_block\_handler=, cref=, is\_lambda=, force\_blockarg=, argv=, block\_handler=, ec=) at vm.c:1075  
#92 vm\_yield (argc=1, argv=0x7ffd6f6cb938, ec=) at vm.c:1120  
#93 rb\_yield\_0 (argv=0x7ffd6f6cb938, argc=1) at vm\_eval.c:980  
#94 rb\_yield\_1 (val=94096130169040) at vm\_eval.c:986  
#95 rb\_yield (val=) at vm\_eval.c:996  
#96 0x000055946cf2113d in rb\_ary\_each (ary=94096076222560) at array.c:1820  
#97 0x000055946cefb61f in vm\_call\_cfunc\_with\_frame (ci=0x55946ed0d090, cc=, calling=, reg\_cfp=0x7fc7bdc4e478, ec=0x55946da519c8) at vm\_inshelper.c:1928  
#98 vm\_call\_cfunc (ec=0x55946da519c8, reg\_cfp=0x7fc7bdc4e478, calling=, ci=0x55946ed0d090, cc=) at vm\_inshelper.c:1944  
#99 0x000055946cf0cb05 in vm\_exec\_core (ec=ec@entry=0x55946da519c8, initial=initial@entry=0) at /tmp/ruby-build.20180216151216.13740/ruby-trunk/insns.def:716  
#100 0x000055946cf02f4c in vm\_exec (ec=ec@entry=0x55946da519c8) at vm.c:1804  
#101 0x000055946cf035fc in invoke\_block (captured=0x7fc7bdc4e500, opt\_pc=, type=, cref=0x0, self=94096096426480, iseq=0x55946e49f298, ec=0x55946da519c8) at vm.c:1005  
#102 invoke\_iseq\_block\_from\_c (ec=0x55946da519c8, captured=0x7fc7bdc4e500, self=94096096426480, argc=, argv=, passed\_block\_handler=0, cref=0x0, is\_lambda=0) at vm.c:1057  
#103 0x000055946cf04699 in invoke\_block\_from\_c\_bh (argc=, passed\_block\_handler=, cref=, is\_lambda=, force\_blockarg=, argv=, block\_handler=, ec=) at vm.c:1075  
#104 vm\_yield (argc=1, argv=0x7ffd6f6cbdf8, ec=) at vm.c:1120  
#105 rb\_yield\_0 (argv=0x7ffd6f6cbdf8, argc=1) at vm\_eval.c:980  
#106 rb\_yield\_1 (val=94096095502480) at vm\_eval.c:986  
#107 rb\_yield (val=) at vm\_eval.c:996  
#108 0x000055946cf2113d in rb\_ary\_each (ary=94096095328480) at array.c:1820  
#109 0x000055946cefb61f in vm\_call\_cfunc\_with\_frame (ci=0x55946e8552a0, cc=, calling=, reg\_cfp=0x7fc7bdc4e4e8, ec=0x55946da519c8) at vm\_inshelper.c:1928  
#110 vm\_call\_cfunc (ec=0x55946da519c8, reg\_cfp=0x7fc7bdc4e4e8, calling=, ci=0x55946e8552a0, cc=) at vm\_inshelper.c:1944  
#111 0x000055946cf0cb05 in vm\_exec\_core (ec=ec@entry=0x55946da519c8, initial=initial@entry=0) at /tmp/ruby-build.20180216151216.13740/ruby-trunk/insns.def:716  
#112 0x000055946cf02f4c in vm\_exec (ec=ec@entry=0x55946da519c8) at vm.c:1804  
#113 0x000055946cf06767 in vm\_call0\_body (ec=ec@entry=0x55946da519c8, calling=calling@entry=0x7ffd6f6cc2d0, ci=ci@entry=0x7ffd6f6cc2c0, cc=cc@entry=0x7ffd6f6cc2f0, argv=argv@entry=0x7ffd6f6cc390) at vm\_eval.c:129  
#114 0x000055946cf074b2 in vm\_call0 (me=, argv=0x7ffd6f6cc390, argc=0, id=135807, recv=94096096186440, ec=0x55946da519c8) at vm\_eval.c:60  
#115 rb\_call0 (ec=0x55946da519c8, recv=94096096186440, mid=135807, argc=, argv=argv@entry=0x8, scope=scope@entry=CALL\_PUBLIC, self=94095993048320) at vm\_eval.c:302  
#116 0x000055946cf0a31a in rb\_call (scope=CALL\_PUBLIC, argv=0x8, argc=, mid=, recv=) at vm\_eval.c:595  
#117 rb\_funcall\_with\_block (recv=, mid=, argc=argc@entry=0, argv=argv@entry=0x7ffd6f6cc390, passed\_procval=passed\_procval@entry=8) at vm\_eval.c:857  
#118 0x000055946ceb319c in rb\_sym\_proc\_call (mid=, argc=argc@entry=1, argv=argv@entry=0x7ffd6f6cc388,

passed\_proc=passed\_proc@entry=8) at string.c:10480  
#119 0x000055946cf0477c in vm\_yield\_with\_symbol (block\_handler=0, argv=0x7ffd6f6cc388, argc=1, symbol=, ec=) at vm\_inshelper.c:2573  
#120 invoke\_block\_from\_c\_bh (argc=, passed\_block\_handler=, cref=, is\_lambda=, force\_blockarg=, argv=, block\_handler=, ec=) at vm.c:1084  
#121 vm\_yield (argc=1, argv=0x7ffd6f6cc388, ec=) at vm.c:1120  
#122 rb\_yield\_0 (argv=0x7ffd6f6cc388, argc=1) at vm\_eval.c:980  
#123 rb\_yield\_1 (val=94096096186440) at vm\_eval.c:986  
#124 rb\_yield (val=) at vm\_eval.c:996  
#125 0x000055946cf2113d in rb\_ary\_each (ary=94095993048320) at array.c:1820  
#126 0x000055946cfb61f in vm\_call\_cfunc\_with\_frame (ci=0x5594744d8280, cc=, calling=, reg\_cfp=0x7fc7bdc4e590, ec=0x55946da519c8) at vm\_inshelper.c:1928  
#127 vm\_call\_cfunc (ec=0x55946da519c8, reg\_cfp=0x7fc7bdc4e590, calling=, ci=0x5594744d8280, cc=) at vm\_inshelper.c:1944  
#128 0x000055946cf03ea3 in vm\_call\_method (ec=0x55946da519c8, cfp=0x7fc7bdc4e590, calling=, ci=, cc=) at vm\_inshelper.c:2417  
#129 0x000055946cf0cb05 in vm\_exec\_core (ec=ec@entry=0x55946da519c8, initial=initial@entry=0) at /tmp/ruby-build.20180216151216.13740/ruby-trunk/insns.def:716  
#130 0x000055946cf02f4c in vm\_exec (ec=ec@entry=0x55946da519c8) at vm.c:1804  
#131 0x000055946cf035fc in invoke\_block (captured=0x7ffd6f6cc8e0, opt\_pc=, type=, cref=0x559474604128, self=94096096426480, iseq=0x5594745027e8, ec=0x55946da519c8) at vm.c:1005  
#132 invoke\_iseq\_block\_from\_c (ec=0x55946da519c8, captured=0x7ffd6f6cc8e0, self=94096096426480, argv=, passed\_block\_handler=0, cref=0x559474604128, is\_lambda=0) at vm.c:1057  
#133 0x000055946cf04520 in invoke\_block\_from\_c\_bh (ec=ec@entry=0x55946da519c8, block\_handler=, argc=argc@entry=1, argv=argv@entry=0x7fc7bdb4f7f8, cref=, is\_lambda=, is\_lambda@entry=0, force\_blockarg=0, passed\_block\_handler=0) at vm.c:1075  
#134 0x000055946cf04958 in vm\_yield\_with\_cref (is\_lambda=0, cref=, argv=0x7fc7bdb4f7f8, argc=1, ec=0x55946da519c8) at vm.c:1112  
#135 yield\_under (under=94096093646040, self=, argc=1, argv=0x7fc7bdb4f7f8) at vm\_eval.c:1572  
#136 0x000055946cfb61f in vm\_call\_cfunc\_with\_frame (ci=0x55946e5cd230, cc=, calling=, reg\_cfp=0x7fc7bdc4e600, ec=0x55946da519c8) at vm\_inshelper.c:1928  
#137 vm\_call\_cfunc (ec=0x55946da519c8, reg\_cfp=0x7fc7bdc4e600, calling=, ci=0x55946e5cd230, cc=) at vm\_inshelper.c:1944  
#138 0x000055946cf0cb05 in vm\_exec\_core (ec=ec@entry=0x55946da519c8, initial=initial@entry=0) at /tmp/ruby-build.20180216151216.13740/ruby-trunk/insns.def:716  
#139 0x000055946cf02f4c in vm\_exec (ec=ec@entry=0x55946da519c8) at vm.c:1804  
#140 0x000055946cf035fc in invoke\_block (captured=0x5594744c4fb0, opt\_pc=, type=, cref=0x0, self=94095990659320, iseq=0x55946e192aa0, ec=0x55946da519c8) at vm.c:1005  
#141 invoke\_iseq\_block\_from\_c (ec=0x55946da519c8, captured=0x5594744c4fb0, self=94095990659320, argv=, passed\_block\_handler=0, cref=0x0, is\_lambda=0) at vm.c:1057  
#142 0x000055946cf04699 in invoke\_block\_from\_c\_bh (argc=, passed\_block\_handler=, cref=, is\_lambda=, force\_blockarg=, argv=, block\_handler=, ec=) at vm.c:1075  
#143 vm\_yield (argc=1, argv=0x7ffd6f6ccdc8, ec=) at vm.c:1120  
#144 rb\_yield\_0 (argv=0x7ffd6f6ccdc8, argc=1) at vm\_eval.c:980  
#145 rb\_yield\_1 (val=94096094867920) at vm\_eval.c:986  
#146 rb\_yield (val=) at vm\_eval.c:996  
#147 0x000055946cf2113d in rb\_ary\_each (ary=94096094867160) at array.c:1820  
#148 0x000055946cf06829 in vm\_call0\_cfunc\_with\_frame (ci=0x7ffd6f6cce00, cc=0x7ffd6f6cce70, argv=0x7fc7bdb4f6b8, calling=0x7ffd6f6cce50, ec=0x55946da519c8) at vm\_eval.c:87  
#149 vm\_call0\_cfunc (argv=0x7fc7bdb4f6b8, cc=0x7ffd6f6cce70, ci=0x7ffd6f6cce00, calling=0x7ffd6f6cce50, ec=0x55946da519c8) at vm\_eval.c:102  
#150 vm\_call0\_body (ec=0x55946da519c8, calling=calling@entry=0x7ffd6f6cce00, ci=ci@entry=0x7ffd6f6cce00, cc=cc@entry=0x7ffd6f6ccce0, argv=0x7fc7bdb4f6b8) at vm\_eval.c:133  
#151 0x000055946cf06c50 in vm\_call0 (me=, argv=, argc=, id=, recv=, ec=) at vm\_eval.c:60  
#152 rb\_vm\_call (ec=, recv=, id=, argc=, argv=, me=) at vm\_eval.c:209  
#153 0x000055946cfb61f in vm\_call\_cfunc\_with\_frame (ci=0x55946dba2780, cc=, calling=, reg\_cfp=0x7fc7bdc4e7c0, ec=0x55946da519c8) at vm\_inshelper.c:1928  
#154 vm\_call\_cfunc (ec=0x55946da519c8, reg\_cfp=0x7fc7bdc4e7c0, calling=, ci=0x55946dba2780, cc=) at vm\_inshelper.c:1944  
#155 0x000055946cf03ea3 in vm\_call\_method (ec=0x55946da519c8, cfp=0x7fc7bdc4e7c0, calling=, ci=, cc=) at vm\_inshelper.c:2417  
#156 0x000055946cf0cb05 in vm\_exec\_core (ec=ec@entry=0x55946da519c8, initial=initial@entry=0) at /tmp/ruby-build.20180216151216.13740/ruby-trunk/insns.def:716  
#157 0x000055946cf02f4c in vm\_exec (ec=0x55946da519c8) at vm.c:1804  
#158 0x000055946cf118d1 in rb\_iseq\_eval (iseq=iseq@entry=0x55946dfed3a8) at vm.c:2046  
#159 0x000055946cdd2164 in rb\_load\_internal0 (ec=ec@entry=0x55946da519c8, fname=fname@entry=94095988939080, wrap=wrap@entry=0) at load.c:611  
#160 0x000055946cdd41f1 in rb\_require\_internal (fname=94095988939160, fname@entry=94095988939200, safe=0) at load.c:992  
#161 0x000055946cdd4493 in rb\_require\_safe (safe=, fname=94095988939200) at load.c:1038  
#162 rb\_f\_require (obj=, fname=94095988939200) at load.c:820  
#163 0x000055946cfb61f in vm\_call\_cfunc\_with\_frame (ci=0x55946dfa920, cc=, calling=, reg\_cfp=0x7fc7bdc4e948, ec=0x55946da519c8) at vm\_inshelper.c:1928  
#164 vm\_call\_cfunc (ec=0x55946da519c8, reg\_cfp=0x7fc7bdc4e948, calling=, ci=0x55946dfa920, cc=) at vm\_inshelper.c:1944  
#165 0x000055946cf03ea3 in vm\_call\_method (ec=0x55946da519c8, cfp=0x7fc7bdc4e948, calling=, ci=, cc=) at vm\_inshelper.c:2417  
#166 0x000055946cf0b5c2 in vm\_exec\_core (ec=ec@entry=0x55946da519c8, initial=initial@entry=0) at /tmp/ruby-build.20180216151216.13740/ruby-trunk/insns.def:779  
#167 0x000055946cf02f4c in vm\_exec (ec=0x55946da519c8) at vm.c:1804  
#168 0x000055946cf118d1 in rb\_iseq\_eval (iseq=iseq@entry=0x55946dfef438) at vm.c:2046  
#169 0x000055946cdd2164 in rb\_load\_internal0 (ec=ec@entry=0x55946da519c8, fname=fname@entry=94095993039280, wrap=wrap@entry=0) at load.c:611  
#170 0x000055946cdd41f1 in rb\_require\_internal (fname=fname@entry=94095993043840, safe=0) at load.c:992  
#171 0x000055946cdd4493 in rb\_require\_safe (safe=, fname=94095993043840) at load.c:1038  
#172 rb\_f\_require (obj=, fname=94095993043840) at load.c:820  
#173 0x000055946cfb61f in vm\_call\_cfunc\_with\_frame (ci=0x55946ea12160, cc=, calling=, reg\_cfp=0x7fc7bdc4e9b8, ec=0x55946da519c8) at vm\_inshelper.c:1928

#174 vm\_call\_cfunc (ec=0x55946da519c8, reg\_cfp=0x7fc7bdc4e9b8, calling=, ci=0x55946ea12160, cc=) at vm\_inshelper.c:1944  
#175 0x000055946cf03ea3 in vm\_call\_method (ec=0x55946da519c8, cfp=0x7fc7bdc4e9b8, calling=, ci=, cc=) at vm\_inshelper.c:2417  
#176 0x000055946cf0b5c2 in vm\_exec\_core (ec=ec@entry=0x55946da519c8, initial=initial@entry=0) at /tmp/ruby-build.20180216151216.13740/ruby-trunk/insns.def:779  
#177 0x000055946cf02f4c in vm\_exec (ec=0x55946da519c8) at vm.c:1804  
#178 0x000055946cf118d1 in rb\_iseq\_eval (iseq=iseq@entry=0x55946e3d7c48) at vm.c:2046  
#179 0x000055946cdd2164 in rb\_load\_internal0 (ec=ec@entry=0x55946da519c8, fname=fname@entry=94095988920840, wrap=) at load.c:611  
#180 0x000055946cdd2850 in rb\_load\_internal (wrap=0, fname=94095988920840) at load.c:642  
#181 rb\_f\_load (argc=, argv=) at load.c:710  
#182 0x000055946cefb61f in vm\_call\_cfunc\_with\_frame (ci=0x55946e7c96e0, cc=, calling=, reg\_cfp=0x7fc7bdc4ea28, ec=0x55946da519c8) at vm\_inshelper.c:1928  
#183 vm\_call\_cfunc (ec=0x55946da519c8, reg\_cfp=0x7fc7bdc4ea28, calling=, ci=0x55946e7c96e0, cc=) at vm\_inshelper.c:1944  
#184 0x000055946cf03ea3 in vm\_call\_method (ec=0x55946da519c8, cfp=0x7fc7bdc4ea28, calling=, ci=, cc=) at vm\_inshelper.c:2417  
#185 0x000055946cf0b5c2 in vm\_exec\_core (ec=ec@entry=0x55946da519c8, initial=initial@entry=0) at /tmp/ruby-build.20180216151216.13740/ruby-trunk/insns.def:779  
#186 0x000055946cf02f4c in vm\_exec (ec=ec@entry=0x55946da519c8) at vm.c:1804  
#187 0x000055946cf035fc in invoke\_block (captured=0x7fc7bdc4eae8, opt\_pc=, type=, cref=0x0, self=9409598891400, iseq=0x55946e4dae10, ec=0x55946da519c8) at vm.c:1005  
#188 invoke\_iseq\_block\_from\_c (ec=0x55946da519c8, captured=0x7fc7bdc4eae8, self=9409598891400, argc=, argv=, passed\_block\_handler=0, cref=0x0, is\_lambda=0) at vm.c:1057  
#189 0x000055946cf04699 in invoke\_block\_from\_c\_bh (argc=, passed\_block\_handler=, cref=, is\_lambda=, force\_blockarg=, argv=, block\_handler=, ec=) at vm.c:1075  
#190 vm\_yield (argc=1, argv=0x7ffd6f6ce8e8, ec=) at vm.c:1120  
#191 rb\_yield\_0 (argv=0x7ffd6f6ce8e8, argc=1) at vm\_eval.c:980  
#192 rb\_yield\_1 (val=94095988924840) at vm\_eval.c:986  
#193 rb\_yield (val=) at vm\_eval.c:996  
#194 0x000055946cf2113d in rb\_ary\_each (ary=94095988920960) at array.c:1820  
#195 0x000055946cefb61f in vm\_call\_cfunc\_with\_frame (ci=0x55946e421000, cc=, calling=, reg\_cfp=0x7fc7bdc4ead0, ec=0x55946da519c8) at vm\_inshelper.c:1928  
#196 vm\_call\_cfunc (ec=0x55946da519c8, reg\_cfp=0x7fc7bdc4ead0, calling=, ci=0x55946e421000, cc=) at vm\_inshelper.c:1944  
#197 0x000055946cf03ea3 in vm\_call\_method (ec=0x55946da519c8, cfp=0x7fc7bdc4ead0, calling=, ci=, cc=) at vm\_inshelper.c:2417  
#198 0x000055946cf0cb05 in vm\_exec\_core (ec=ec@entry=0x55946da519c8, initial=initial@entry=0) at /tmp/ruby-build.20180216151216.13740/ruby-trunk/insns.def:716  
#199 0x000055946cf02f4c in vm\_exec (ec=0x55946da519c8) at vm.c:1804  
#200 0x000055946cf118d1 in rb\_iseq\_eval (iseq=iseq@entry=0x55946e35f2c0) at vm.c:2046  
#201 0x000055946cdd2164 in rb\_load\_internal0 (ec=ec@entry=0x55946da519c8, fname=fname@entry=94095992643280, wrap=) at load.c:611  
#202 0x000055946cdd2850 in rb\_load\_internal (wrap=0, fname=94095992643280) at load.c:642  
#203 rb\_f\_load (argc=, argv=) at load.c:710  
#204 0x000055946cefb61f in vm\_call\_cfunc\_with\_frame (ci=0x55946e24b20, cc=, calling=, reg\_cfp=0x7fc7bdc4ec58, ec=0x55946da519c8) at vm\_inshelper.c:1928  
#205 vm\_call\_cfunc (ec=0x55946da519c8, reg\_cfp=0x7fc7bdc4ec58, calling=, ci=0x55946e24b20, cc=) at vm\_inshelper.c:1944  
#206 0x000055946cf03ea3 in vm\_call\_method (ec=0x55946da519c8, cfp=0x7fc7bdc4ec58, calling=, ci=, cc=) at vm\_inshelper.c:2417  
#207 0x000055946cf0b5c2 in vm\_exec\_core (ec=ec@entry=0x55946da519c8, initial=initial@entry=0) at /tmp/ruby-build.20180216151216.13740/ruby-trunk/insns.def:779  
#208 0x000055946cf02f4c in vm\_exec (ec=0x55946da519c8) at vm.c:1804  
#209 0x000055946cf118d1 in rb\_iseq\_eval (iseq=iseq@entry=0x55946e3a7390) at vm.c:2046  
#210 0x000055946cdd2164 in rb\_load\_internal0 (ec=ec@entry=0x55946da519c8, fname=fname@entry=94095993616120, wrap=) at load.c:611  
#211 0x000055946cdd2850 in rb\_load\_internal (wrap=0, fname=94095993616120) at load.c:642  
#212 rb\_f\_load (argc=, argv=) at load.c:710  
#213 0x000055946cefb61f in vm\_call\_cfunc\_with\_frame (ci=0x55946e6a00d0, cc=, calling=, reg\_cfp=0x7fc7bdc4ecc8, ec=0x55946da519c8) at vm\_inshelper.c:1928  
#214 vm\_call\_cfunc (ec=0x55946da519c8, reg\_cfp=0x7fc7bdc4ecc8, calling=, ci=0x55946e6a00d0, cc=) at vm\_inshelper.c:1944  
#215 0x000055946cf03ea3 in vm\_call\_method (ec=0x55946da519c8, cfp=0x7fc7bdc4ecc8, calling=, ci=, cc=) at vm\_inshelper.c:2417  
#216 0x000055946cf0b5c2 in vm\_exec\_core (ec=ec@entry=0x55946da519c8, initial=initial@entry=0) at /tmp/ruby-build.20180216151216.13740/ruby-trunk/insns.def:779  
#217 0x000055946cf02f4c in vm\_exec (ec=0x55946da519c8) at vm.c:1804  
#218 0x000055946cf118d1 in rb\_iseq\_eval (iseq=iseq@entry=0x55946e470100) at vm.c:2046  
#219 0x000055946cdd2164 in rb\_load\_internal0 (ec=ec@entry=0x55946da519c8, fname=fname@entry=94095993672200, wrap=) at load.c:611  
#220 0x000055946cdd2850 in rb\_load\_internal (wrap=0, fname=94095993672200) at load.c:642  
#221 rb\_f\_load (argc=, argv=) at load.c:710  
#222 0x000055946cefb61f in vm\_call\_cfunc\_with\_frame (ci=0x55946e3306a0, cc=, calling=, reg\_cfp=0x7fc7bdc4efa0, ec=0x55946da519c8) at vm\_inshelper.c:1928  
#223 vm\_call\_cfunc (ec=0x55946da519c8, reg\_cfp=0x7fc7bdc4efa0, calling=, ci=0x55946e3306a0, cc=) at vm\_inshelper.c:1944  
#224 0x000055946cf03ea3 in vm\_call\_method (ec=0x55946da519c8, cfp=0x7fc7bdc4efa0, calling=, ci=, cc=) at vm\_inshelper.c:2417  
#225 0x000055946cf0b5c2 in vm\_exec\_core (ec=ec@entry=0x55946da519c8, initial=initial@entry=0) at /tmp/ruby-build.20180216151216.13740/ruby-trunk/insns.def:779  
#226 0x000055946cf02f4c in vm\_exec (ec=0x55946da519c8) at vm.c:1804  
#227 0x000055946cf119d5 in rb\_iseq\_eval\_main (iseq=iseq@entry=0x55946e4bbba0) at vm.c:2057  
#228 0x000055946cd83d54 in ruby\_exec\_internal (n=0x55946e4bbba0) at eval.c:247  
#229 0x000055946cd87fd5 in ruby\_exec\_node (n=0x55946e4bbba0) at eval.c:311  
#230 ruby\_run\_node (n=) at eval.c:303  
#231 0x000055946cd831bf in main (argc=22, argv=0x7ffd6f6d0148) at ./main.c:42

git-svn-id: svn+ssh://ci.ruby-lang.org/ruby/trunk@62433 b2dd03c8-39d4-4d8f-98ff-823fe69b080e

mjit.c: fix deadlock on class serial increment

This is reported by @hasimo. Fixing a case like this:

```

#0 Ill_lock_wait () at ../sysdeps/unix/sysv/linux/x86_64/lowlevellock.S:135
#1 0x00007fc7bd824dbd in __GI_pthread_mutex_lock (mutex=mutex@entry=0x55946d294440 ) at ./nptl/pthread_mutex_lock.c:80 4
#2 0x000055946cec54d9 in rb_native_mutex_lock (lock=lock@entry=0x55946d294440 ) at thread_pthread.c:211
#3 0x000055946cde10ca in CRITICAL_SECTION_START (msg=0x55946cfb5423 "mjit_gc_start_hook", level=4) at mjit.c:392
#4 mjit_gc_start_hook () at mjit.c:412
#5 0x000055946cda0dfe in gc_enter (event=0x55946cfaf91e "gc_rest", objspace=0x55946da51760) at gc.c:6623
#6 gc_rest (objspace=objspace@entry=0x55946da51760) at gc.c:6515
#7 0x000055946cd9f1cf in gc_rest (objspace=0x55946da51760) at gc.c:7841
#8 objspace_malloc_increase (objspace=objspace@entry=0x55946da51760, new_size=, old_size=old_size@entry=0,
type=type@entry=MEMOP_TYPE_MALLOC, mem=0x7fc7a4439010) at gc.c:7842
#9 0x000055946cda1706 in objspace_malloc_fixup (size=, mem=0x7fc7a4439010, objspace=0x55946da51760) at gc.c:7910
#10 objspace_xmalloc0 (objspace=0x55946da51760, size=, size@entry=3145728) at gc.c:7939
#11 0x000055946cda3620 in ruby_xmalloc0 (size=3145728) at gc.c:8006
#12 ruby_xmalloc (size=size@entry=3145728) at gc.c:8015
#13 0x000055946ce93f4c in st_init_table_with_size (type=0x55946d28da30 , size=) at st.c:602
#14 0x000055946ce94287 in rebuild_table (tab=tab@entry=0x55946db669f0) at st.c:777
#15 0x000055946ce963f7 in rebuild_table_if_necessary (tab=0x55946db669f0) at st.c:1139
#16 st_add_direct_with_hash (hash=8577035585096733536, value=20, key=808451, tab=0x55946db669f0) at st.c:1207
#17 st_update (tab=0x55946db669f0, key=key@entry=808451, func=, arg=140726472841392) at st.c:1512
#18 0x000055946cda9e27 in tbl_update (optional_arg=, func=, key=, hash=) at hash.c:561
#19 rb_hash_aset (hash=94095983218480, key=key@entry=808451, val=val@entry=20) at hash.c:1654
#20 0x000055946cde243a in mjit_add_class_serial (class_serial=class_serial@entry=404225) at mjit.c:1414 3
#21 0x000055946cefcbfab in rb_next_class_serial () at vm.c:321
#22 0x000055946cf48324 in class_alloc (klass=, flags=28) at class.c:178
#23 rb_include_class_new (module=module@entry=94096115733840, super=0) at class.c:820
#24 0x000055946cf487ac in include_modules_at (klass=klass@entry=94096135960920, c=, module=, module@entry=94096115734160,
search_super=search_super@entry=1) at class.c:913
#25 0x000055946cf48ac8 in rb_include_module (klass=94096135960920, module=module@entry=94096115734160) at class.c:870
#26 0x000055946cd84993 in rb_mod_append_features (module=94096115734160, include=) at eval.c:1178
#27 0x000055946cf06829 in vm_call0_cfunc_with_frame (ci=0x7ffd6f6c9a20, cc=0x7ffd6f6c9ba0, argv=0x7ffd6f6c9ba0, calling=0x7ffd6f6c9a30,
ec=0x55946da519c8) at vm_eval.c:87
#28 vm_call0_cfunc (argv=0x7ffd6f6c9ba0, cc=0x7ffd6f6c9ba0, ci=0x7ffd6f6c9a20, calling=0x7ffd6f6c9a30, ec=0x55946da519c8) at vm_eval.c:102
#29 vm_call0_body (ec=ec@entry=0x55946da519c8, calling=calling@entry=0x7ffd6f6c9ae0, ci=ci@entry=0x7ffd6f6c9ad0,
cc=cc@entry=0x7ffd6f6c9b00, argv=argv@entry=0x7ffd6f6c9ba0) at vm_eval.c:133
#30 0x000055946cf074b2 in vm_call0 (me=, argv=0x7ffd6f6c9ba0, argc=1, id=4849, recv=94096115734160, ec=0x55946da519c8) at vm_eval.c:60
#31 rb_call0 (ec=0x55946da519c8, recv=94096115734160, mid=4849, mid@entry=94096135960920, argc=argc@entry=1,
argv=argv@entry=0x7ffd6f6c9ba0, scope=scope@entry=CALL_FCALL, self=94096135960920) at vm_eval.c:302
#32 0x000055946cf07b9b in rb_call (scope=CALL_FCALL, argv=0x7ffd6f6c9ba0, argc=1, mid=94096135960920, recv=) at vm_eval.c:595
#33 rb_funcallv (recv=, mid=mid@entry=4849, argc=argc@entry=1, argv=argv@entry=0x7ffd6f6c9ba0) at vm_eval.c:825
#34 0x000055946cd848a7 in rb_mod_include (argc=0, argv=0x7fc7bdb4fce8, module=94096135960920) at eval.c:1203
#35 0x000055946cef6b1f in vm_call_cfunc_with_frame (ci=0x5594710c06b0, cc=, calling=, reg_cfp=0x7fc7bdc4df00, ec=0x55946da519c8) at
vm_inshelper.c:1928
#36 vm_call_cfunc (ec=0x55946da519c8, reg_cfp=0x7fc7bdc4df00, calling=, ci=0x5594710c06b0, cc=) at vm_inshelper.c:1944
#37 0x000055946cf0b5c2 in vm_exec_core (ec=ec@entry=0x55946da519c8, initial=initial@entry=0) at
/tmp/ruby-build.20180216151216.13740/ruby-trunk/insns.def:779
#38 0x000055946cf02f4c in vm_exec (ec=ec@entry=0x55946da519c8) at vm.c:1804
#39 0x000055946cf035fc in invoke_block (captured=0x7ffd6f6ca0a0, opt_pc=, type=, cref=0x559476c23930, self=94096135960920,
iseq=0x559471335ee0, ec=0x55946da519c8) at vm.c:1005
#40 invoke_iseq_block_from_c (ec=0x55946da519c8, captured=0x7ffd6f6ca0a0, self=94096135960920, argc=, argv=, passed_block_handler=0,
cref=0x559476c23930, is_lambda=0) at vm.c:1057
#41 0x000055946cf04520 in invoke_block_from_c_bh (ec=ec@entry=0x55946da519c8, block_handler=, argc=argc@entry=1,
argv=argv@entry=0x7ffd6f6ca108, cref=, is_lambda=, is_lambda@entry=0, force_blockarg=0, passed_block_handler=0) at vm.c:1075
#42 0x000055946cf04958 in vm_yield_with_cref (is_lambda=0, cref=, argv=0x7ffd6f6ca108, argc=1, ec=0x55946da519c8) at vm.c:1112
#43 yield_under (under=94096135960920, self=, argc=argc@entry=1, argv=argv@entry=0x7ffd6f6ca108) at vm_eval.c:1572
#44 0x000055946cf04b12 in rb_mod_module_exec (argc=argc@entry=1, argv=argv@entry=0x7ffd6f6ca108, mod=) at vm_eval.c:1770
#45 0x000055946ce00fc6 in rb_mod_initialize (module=94096135960920) at object.c:1978
#46 0x000055946cf06829 in vm_call0_cfunc_with_frame (ci=0x7ffd6f6ca130, cc=0x7fc7bdb4fc98, argv=0x7fc7bdb4fc98, calling=0x7ffd6f6ca140,
ec=0x55946da519c8) at vm_eval.c:87
#47 vm_call0_cfunc (argv=0x7fc7bdb4fc98, cc=0x7fc7bdb4fc98, ci=0x7ffd6f6ca130, calling=0x7ffd6f6ca140, ec=0x55946da519c8) at vm_eval.c:102
#48 vm_call0_body (ec=ec@entry=0x55946da519c8, calling=calling@entry=0x7ffd6f6ca1f0, ci=ci@entry=0x7ffd6f6ca1e0,
cc=cc@entry=0x7ffd6f6ca210, argv=argv@entry=0x7fc7bdb4fc98) at vm_eval.c:133
#49 0x000055946cf074b2 in vm_call0 (me=, argv=0x7fc7bdb4fc98, argc=0, id=3057, recv=94096135960920, ec=0x55946da519c8) at vm_eval.c:60
#50 rb_call0 (ec=0x55946da519c8, recv=recv@entry=94096135960920, mid=mid@entry=3057, argc=argc@entry=3057, argv=argv@entry=0x0,
scope=scope@entry=CALL_FCALL, self=94095983466120) at vm_eval.c:302
#51 0x000055946cf07b9b in rb_call (scope=CALL_FCALL, argv=0x0, argc=3057, mid=3057, recv=94096135960920) at vm_eval.c:595
#52 rb_funcallv (recv=recv@entry=94096135960920, mid=mid@entry=3057, argc=argc@entry=0, argv=argv@entry=0x7fc7bdb4fc98) at
vm_eval.c:825
#53 0x000055946cd89673 in rb_obj_call_init (obj=obj@entry=94096135960920, argc=argc@entry=0, argv=argv@entry=0x7fc7bdb4fc98) at
eval.c:1590

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#54 0x000055946ce048a1 in rb\_class\_s\_new (argc=0, argv=0x7fc7bdc4fc98, klass=) at object.c:2153  
#55 0x000055946cefb61f in vm\_call\_cfunc\_with\_frame (ci=0x559471339c80, cc=, calling=, reg\_cfp=0x7fc7bdc4dfa8, ec=0x55946da519c8) at vm\_insnhelper.c:1928  
#56 vm\_call\_cfunc (ec=0x55946da519c8, reg\_cfp=0x7fc7bdc4dfa8, calling=, ci=0x559471339c80, cc=) at vm\_insnhelper.c:1944  
#57 0x000055946cf0cb05 in vm\_exec\_core (ec=ec@entry=0x55946da519c8, initial=initial@entry=0) at /tmp/ruby-build.20180216151216.13740/ruby-trunk/insns.def:716  
#58 0x000055946cf02f4c in vm\_exec (ec=ec@entry=0x55946da519c8) at vm.c:1804  
#59 0x000055946cf03274 in invoke\_bmethod (ec=ec@entry=0x55946da519c8, iseq=iseq@entry=0x55946f15cb0c, self=self@entry=94096115734640, me=me@entry=0x559475664e28, type=type@entry=572653825, opt\_pc=0, captured=0x55947158e8a0) at vm.c:1026  
#60 0x000055946cf03534 in invoke\_iseq\_block\_from\_c (ec=0x55946da519c8, captured=0x55947158e8a0, self=94096115734640, argc=, argv=, passed\_block\_handler=0, cref=0x0, is\_lambda=1) at vm.c:1060  
#61 0x000055946cf036ce in invoke\_block\_from\_c\_proc (ec=, proc=, self=, argc=1, argv=, passed\_block\_handler=, is\_lambda=) at vm.c:1150  
#62 0x000055946cf03811 in vm\_invoke\_bmethod (block\_handler=, argv=, argc=1, self=, proc=, ec=0x55946da519c8) at vm.c:1175  
#63 vm\_call\_bmethod\_body (ci=, cc=0x55946f625960, argv=, calling=0x7fd6f6ca9b0, ec=0x55946da519c8) at vm\_insnhelper.c:1971  
#64 vm\_call\_bmethod (ec=0x55946da519c8, cfp=0x7fc7bdc4e0c0, calling=0x7fd6f6ca9b0, ci=, cc=0x55946f625960) at vm\_insnhelper.c:1988  
#65 0x000055946cf03ea3 in vm\_call\_method (ec=0x55946da519c8, cfp=0x7fc7bdc4e0c0, calling=, ci=, cc=) at vm\_insnhelper.c:2417  
#66 0x000055946cf0e63e in vm\_exec\_core (ec=ec@entry=0x55946da519c8, initial=initial@entry=0) at /tmp/ruby-build.20180216151216.13740/ruby-trunk/insns.def:797  
#67 0x000055946cf02f4c in vm\_exec (ec=ec@entry=0x55946da519c8) at vm.c:1804  
#68 0x000055946cf06767 in vm\_call0\_body (ec=ec@entry=0x55946da519c8, calling=calling@entry=0x7fd6f6cad00, ci=ci@entry=0x7fd6f6cacf0, cc=cc@entry=0x7fd6f6cad20, argv=argv@entry=0x7fd6f6cadb0) at vm\_eval.c:129  
#69 0x000055946cf074b2 in vm\_call0 (me=, argv=0x7fd6f6cadb0, argc=1, id=3681, recv=94096115734640, ec=0x55946da519c8) at vm\_eval.c:60  
#70 rb\_call0 (ec=0x55946da519c8, recv=recv@entry=94096115734640, mid=3681, argc=argc@entry=1, argv=argv@entry=0x7fd6f6cad90, scope=scope@entry=CALL\_FCALL, self=94095983452880) at vm\_eval.c:302  
#71 0x000055946cf07b9b in rb\_call (scope=CALL\_FCALL, argv=0x7fd6f6cad90, argc=1, mid=, recv=94096115734640) at vm\_eval.c:595  
#72 rb\_funcallv (recv=recv@entry=94096115734640, mid=, argc=argc@entry=1, argv=argv@entry=0x7fd6f6cadb0) at vm\_eval.c:825  
#73 0x000055946cf477d2 in rb\_class\_inherited (super=super@entry=94096115734640, klass=class@entry=94096135961440) at class.c:625  
#74 0x000055946cf0f796 in vm\_declare\_class (super=, cbase=94096094868200, flags=, id=847387) at vm\_insnhelper.c:3134  
#75 vm\_define\_class (super=, cbase=, flags=, id=847387) at vm\_insnhelper.c:3167  
#76 vm\_find\_or\_create\_class\_by\_id (super=, cbase=, flags=, id=847387) at vm\_insnhelper.c:3196  
#77 vm\_exec\_core (ec=ec@entry=0x55946da519c8, initial=initial@entry=0) at /tmp/ruby-build.20180216151216.13740/ruby-trunk/insns.def:685  
#78 0x000055946cf02f4c in vm\_exec (ec=0x55946da519c8) at vm.c:1804  
#79 0x000055946cf118d1 in rb\_iseq\_eval (iseq=iseq@entry=0x559471f1b548) at vm.c:2046  
#80 0x000055946cdd2164 in rb\_load\_internal0 (ec=ec@entry=0x55946da519c8, fname=fname@entry=94096135872160, wrap=wrap@entry=0) at load.c:611  
#81 0x000055946cdd41f1 in rb\_require\_internal (fname=94096135872400, fname@entry=94096135872440, safe=0) at load.c:992  
#82 0x000055946cdd4493 in rb\_require\_safe (safe=, fname=94096135872440) at load.c:1038  
#83 rb\_f\_require (obj=, fname=94096135872440) at load.c:820  
#84 0x000055946cefb61f in vm\_call\_cfunc\_with\_frame (ci=0x5594708700a0, cc=, calling=, reg\_cfp=0x7fc7bdc4e168, ec=0x55946da519c8) at vm\_insnhelper.c:1928  
#85 vm\_call\_cfunc (ec=0x55946da519c8, reg\_cfp=0x7fc7bdc4e168, calling=, ci=0x5594708700a0, cc=) at vm\_insnhelper.c:1944  
#86 0x000055946cf03ea3 in vm\_call\_method (ec=0x55946da519c8, cfp=0x7fc7bdc4e168, calling=, ci=, cc=) at vm\_insnhelper.c:2417  
#87 0x000055946cf0e63e in vm\_exec\_core (ec=ec@entry=0x55946da519c8, initial=initial@entry=0) at /tmp/ruby-build.20180216151216.13740/ruby-trunk/insns.def:797  
#88 0x000055946cf02f4c in vm\_exec (ec=ec@entry=0x55946da519c8) at vm.c:1804  
#89 0x000055946cf035fc in invoke\_block (captured=0x7fc7bdc4e490, opt\_pc=, type=, cref=0x0, self=94096096426480, iseq=0x55946e49f0b8, ec=0x55946da519c8) at vm.c:1005  
#90 invoke\_iseq\_block\_from\_c (ec=0x55946da519c8, captured=0x7fc7bdc4e490, self=94096096426480, argc=, argv=, passed\_block\_handler=0, cref=0x0, is\_lambda=0) at vm.c:1057  
#91 0x000055946cf04699 in invoke\_block\_from\_c\_bh (argc=, passed\_block\_handler=, cref=, is\_lambda=, force\_blockarg=, argv=, block\_handler=, ec=) at vm.c:1075  
#92 vm\_yield (argc=1, argv=0x7fd6f6cb938, ec=) at vm.c:1120  
#93 rb\_yield\_0 (argv=0x7fd6f6cb938, argc=1) at vm\_eval.c:980  
#94 rb\_yield\_1 (val=94096130169040) at vm\_eval.c:986  
#95 rb\_yield (val=) at vm\_eval.c:996  
#96 0x000055946cf2113d in rb\_ary\_each (ary=94096076222560) at array.c:1820  
#97 0x000055946cefb61f in vm\_call\_cfunc\_with\_frame (ci=0x55946ed0d090, cc=, calling=, reg\_cfp=0x7fc7bdc4e478, ec=0x55946da519c8) at vm\_insnhelper.c:1928  
#98 vm\_call\_cfunc (ec=0x55946da519c8, reg\_cfp=0x7fc7bdc4e478, calling=, ci=0x55946ed0d090, cc=) at vm\_insnhelper.c:1944  
#99 0x000055946cf0cb05 in vm\_exec\_core (ec=ec@entry=0x55946da519c8, initial=initial@entry=0) at /tmp/ruby-build.20180216151216.13740/ruby-trunk/insns.def:716  
#100 0x000055946cf02f4c in vm\_exec (ec=ec@entry=0x55946da519c8) at vm.c:1804  
#101 0x000055946cf035fc in invoke\_block (captured=0x7fc7bdc4e500, opt\_pc=, type=, cref=0x0, self=94096096426480, iseq=0x55946e49f298, ec=0x55946da519c8) at vm.c:1005  
#102 invoke\_iseq\_block\_from\_c (ec=0x55946da519c8, captured=0x7fc7bdc4e500, self=94096096426480, argc=, argv=, passed\_block\_handler=0, cref=0x0, is\_lambda=0) at vm.c:1057  
#103 0x000055946cf04699 in invoke\_block\_from\_c\_bh (argc=, passed\_block\_handler=, cref=, is\_lambda=, force\_blockarg=, argv=, block\_handler=, ec=) at vm.c:1075  
#104 vm\_yield (argc=1, argv=0x7fd6f6cbdf8, ec=) at vm.c:1120  
#105 rb\_yield\_0 (argv=0x7fd6f6cbdf8, argc=1) at vm\_eval.c:980  
#106 rb\_yield\_1 (val=94096095502480) at vm\_eval.c:986  
#107 rb\_yield (val=) at vm\_eval.c:996  
#108 0x000055946cf2113d in rb\_ary\_each (ary=94096095328480) at array.c:1820  
#109 0x000055946cefb61f in vm\_call\_cfunc\_with\_frame (ci=0x55946e8552a0, cc=, calling=, reg\_cfp=0x7fc7bdc4e4e8, ec=0x55946da519c8) at

vm\_inshelper.c:1928  
#110 vm\_call\_cfunc (ec=0x55946da519c8, reg\_cfp=0x7fc7bdc4e4e8, calling=, ci=0x55946e8552a0, cc=) at vm\_inshelper.c:1944  
#111 0x000055946cf0cb05 in vm\_exec\_core (ec=ec@entry=0x55946da519c8, initial=initial@entry=0) at /tmp/ruby-build.20180216151216.13740/ruby-trunk/insns.def:716  
#112 0x000055946cf02f4c in vm\_exec (ec=ec@entry=0x55946da519c8) at vm.c:1804  
#113 0x000055946cf06767 in vm\_call0\_body (ec=ec@entry=0x55946da519c8, calling=calling@entry=0x7ffd6f6cc2d0, ci=ci@entry=0x7ffd6f6cc2c0, cc=cc@entry=0x7ffd6f6cc2f0, argv=argv@entry=0x7ffd6f6cc390) at vm\_eval.c:129  
#114 0x000055946cf074b2 in vm\_call0 (me=, argv=0x7ffd6f6cc390, argc=0, id=135807, recv=94096096186440, ec=0x55946da519c8) at vm\_eval.c:60  
#115 rb\_call0 (ec=0x55946da519c8, recv=94096096186440, mid=135807, argc=, argv=argv@entry=0x8, scope=scope@entry=CALL\_PUBLIC, self=94095993048320) at vm\_eval.c:302  
#116 0x000055946cf0a31a in rb\_call (scope=CALL\_PUBLIC, argv=0x8, argc=, mid=, recv=) at vm\_eval.c:595  
#117 rb\_funcall\_with\_block (recv=, mid=, argc=argc@entry=0, argv=argv@entry=0x7ffd6f6cc390, passed\_procval=passed\_procval@entry=8) at vm\_eval.c:857  
#118 0x000055946ceb319c in rb\_sym\_proc\_call (mid=, argc=argc@entry=1, argv=argv@entry=0x7ffd6f6cc388, passed\_proc=passed\_proc@entry=8) at string.c:10480  
#119 0x000055946cf0477c in vm\_yield\_with\_symbol (block\_handler=0, argv=0x7ffd6f6cc388, argc=1, symbol=, ec=) at vm\_inshelper.c:2573  
#120 invoke\_block\_from\_c\_bh (argc=, passed\_block\_handler=, cref=, is\_lambda=, force\_blockarg=, argv=, block\_handler=, ec=) at vm.c:1084  
#121 vm\_yield (argc=1, argv=0x7ffd6f6cc388, ec=) at vm.c:1120  
#122 rb\_yield\_0 (argv=0x7ffd6f6cc388, argc=1) at vm\_eval.c:980  
#123 rb\_yield\_1 (val=94096096186440) at vm\_eval.c:986  
#124 rb\_yield (val=) at vm\_eval.c:996  
#125 0x000055946cf2113d in rb\_ary\_each (ary=94095993048320) at array.c:1820  
#126 0x000055946cefb61f in vm\_call\_cfunc\_with\_frame (ci=0x5594744d8280, cc=, calling=, reg\_cfp=0x7fc7bdc4e590, ec=0x55946da519c8) at vm\_inshelper.c:1928  
#127 vm\_call\_cfunc (ec=0x55946da519c8, reg\_cfp=0x7fc7bdc4e590, calling=, ci=0x5594744d8280, cc=) at vm\_inshelper.c:1944  
#128 0x000055946cf03ea3 in vm\_call\_method (ec=0x55946da519c8, cfp=0x7fc7bdc4e590, calling=, ci=, cc=) at vm\_inshelper.c:2417  
#129 0x000055946cf0cb05 in vm\_exec\_core (ec=ec@entry=0x55946da519c8, initial=initial@entry=0) at /tmp/ruby-build.20180216151216.13740/ruby-trunk/insns.def:716  
#130 0x000055946cf02f4c in vm\_exec (ec=ec@entry=0x55946da519c8) at vm.c:1804  
#131 0x000055946cf035fc in invoke\_block (captured=0x7ffd6f6cc8e0, opt\_pc=, type=, cref=0x559474604128, self=94096096426480, iseq=0x5594745027e8, ec=0x55946da519c8) at vm.c:1005  
#132 invoke\_iseq\_block\_from\_c (ec=0x55946da519c8, captured=0x7ffd6f6cc8e0, self=94096096426480, argc=, argv=, passed\_block\_handler=0, cref=0x559474604128, is\_lambda=0) at vm.c:1057  
#133 0x000055946cf04520 in invoke\_block\_from\_c\_bh (ec=ec@entry=0x55946da519c8, block\_handler=, argc=argc@entry=1, argv=argv@entry=0x7fc7bdb4f7f8, cref=, is\_lambda=, is\_lambda@entry=0, force\_blockarg=0, passed\_block\_handler=0) at vm.c:1075  
#134 0x000055946cf04958 in vm\_yield\_with\_cref (is\_lambda=0, cref=, argv=0x7fc7bdb4f7f8, argc=1, ec=0x55946da519c8) at vm.c:1112  
#135 yield\_under (under=94096093646040, self=, argc=1, argv=0x7fc7bdb4f7f8) at vm\_eval.c:1572  
#136 0x000055946cefb61f in vm\_call\_cfunc\_with\_frame (ci=0x55946e5cd230, cc=, calling=, reg\_cfp=0x7fc7bdc4e600, ec=0x55946da519c8) at vm\_inshelper.c:1928  
#137 vm\_call\_cfunc (ec=0x55946da519c8, reg\_cfp=0x7fc7bdc4e600, calling=, ci=0x55946e5cd230, cc=) at vm\_inshelper.c:1944  
#138 0x000055946cf0cb05 in vm\_exec\_core (ec=ec@entry=0x55946da519c8, initial=initial@entry=0) at /tmp/ruby-build.20180216151216.13740/ruby-trunk/insns.def:716  
#139 0x000055946cf02f4c in vm\_exec (ec=ec@entry=0x55946da519c8) at vm.c:1804  
#140 0x000055946cf035fc in invoke\_block (captured=0x5594744c4fb0, opt\_pc=, type=, cref=0x0, self=94095990659320, iseq=0x55946e192aa0, ec=0x55946da519c8) at vm.c:1005  
#141 invoke\_iseq\_block\_from\_c (ec=0x55946da519c8, captured=0x5594744c4fb0, self=94095990659320, argc=, argv=, passed\_block\_handler=0, cref=0x0, is\_lambda=0) at vm.c:1057  
#142 0x000055946cf04699 in invoke\_block\_from\_c\_bh (argc=, passed\_block\_handler=, cref=, is\_lambda=, force\_blockarg=, argv=, block\_handler=, ec=) at vm.c:1075  
#143 vm\_yield (argc=1, argv=0x7ffd6f6ccdc8, ec=) at vm.c:1120  
#144 rb\_yield\_0 (argv=0x7ffd6f6ccdc8, argc=1) at vm\_eval.c:980  
#145 rb\_yield\_1 (val=94096094867920) at vm\_eval.c:986  
#146 rb\_yield (val=) at vm\_eval.c:996  
#147 0x000055946cf2113d in rb\_ary\_each (ary=94096094867160) at array.c:1820  
#148 0x000055946cf06829 in vm\_call0\_cfunc\_with\_frame (ci=0x7ffd6f6cce00, cc=0x7ffd6f6cce70, argv=0x7fc7bdb4f6b8, calling=0x7ffd6f6cce50, ec=0x55946da519c8) at vm\_eval.c:87  
#149 vm\_call0\_cfunc (argv=0x7fc7bdb4f6b8, cc=0x7ffd6f6cce70, ci=0x7ffd6f6cce00, calling=0x7ffd6f6cce50, ec=0x55946da519c8) at vm\_eval.c:102  
#150 vm\_call0\_body (ec=0x55946da519c8, calling=calling@entry=0x7ffd6f6cce00, ci=ci@entry=0x7ffd6f6cceb0, cc=cc@entry=0x7ffd6f6cce00, argv=0x7fc7bdb4f6b8) at vm\_eval.c:133  
#151 0x000055946cf06c50 in vm\_call0 (me=, argv=, argc=, id=, recv=, ec=) at vm\_eval.c:60  
#152 rb\_vm\_call (ec=, recv=, id=, argc=, argv=, me=) at vm\_eval.c:209  
#153 0x000055946cefb61f in vm\_call\_cfunc\_with\_frame (ci=0x55946dba2780, cc=, calling=, reg\_cfp=0x7fc7bdc4e7c0, ec=0x55946da519c8) at vm\_inshelper.c:1928  
#154 vm\_call\_cfunc (ec=0x55946da519c8, reg\_cfp=0x7fc7bdc4e7c0, calling=, ci=0x55946dba2780, cc=) at vm\_inshelper.c:1944  
#155 0x000055946cf03ea3 in vm\_call\_method (ec=0x55946da519c8, cfp=0x7fc7bdc4e7c0, calling=, ci=, cc=) at vm\_inshelper.c:2417  
#156 0x000055946cf0cb05 in vm\_exec\_core (ec=ec@entry=0x55946da519c8, initial=initial@entry=0) at /tmp/ruby-build.20180216151216.13740/ruby-trunk/insns.def:716  
#157 0x000055946cf02f4c in vm\_exec (ec=0x55946da519c8) at vm.c:1804  
#158 0x000055946cf118d1 in rb\_iseq\_eval (iseq=iseq@entry=0x55946dfed3a8) at vm.c:2046  
#159 0x000055946cdd2164 in rb\_load\_internal0 (ec=ec@entry=0x55946da519c8, fname=fname@entry=94095988939080, wrap=wrap@entry=0) at load.c:611  
#160 0x000055946cdd41f1 in rb\_require\_internal (fname=94095988939160, fname@entry=94095988939200, safe=0) at load.c:992  
#161 0x000055946cdd4493 in rb\_require\_safe (safe=, fname=94095988939200) at load.c:1038  
#162 rb\_f\_require (obj=, fname=94095988939200) at load.c:820



#163 0x000055946cefb61f in vm\_call\_cfunc\_with\_frame (ci=0x55946dffa920, cc=, calling=, reg\_cfp=0x7fc7bdc4e948, ec=0x55946da519c8) at vm\_inshelper.c:1928  
#164 vm\_call\_cfunc (ec=0x55946da519c8, reg\_cfp=0x7fc7bdc4e948, calling=, ci=0x55946dffa920, cc=) at vm\_inshelper.c:1944  
#165 0x000055946cf03ea3 in vm\_call\_method (ec=0x55946da519c8, cfp=0x7fc7bdc4e948, calling=, ci=, cc=) at vm\_inshelper.c:2417  
#166 0x000055946cf0b5c2 in vm\_exec\_core (ec=ec@entry=0x55946da519c8, initial=initial@entry=0) at /tmp/ruby-build.20180216151216.13740/ruby-trunk/insns.def:779  
#167 0x000055946cf02f4c in vm\_exec (ec=0x55946da519c8) at vm.c:1804  
#168 0x000055946cf118d1 in rb\_iseq\_eval (iseq=iseq@entry=0x55946dfee438) at vm.c:2046  
#169 0x000055946cdd2164 in rb\_load\_internal0 (ec=ec@entry=0x55946da519c8, fname=fname@entry=94095993039280, wrap=wrap@entry=0) at load.c:611  
#170 0x000055946cdd41f1 in rb\_require\_internal (fname=fname@entry=94095993043840, safe=0) at load.c:992  
#171 0x000055946cdd4493 in rb\_require\_safe (safe=, fname=94095993043840) at load.c:1038  
#172 rb\_f\_require (obj=, fname=94095993043840) at load.c:820  
#173 0x000055946cefb61f in vm\_call\_cfunc\_with\_frame (ci=0x55946ea12160, cc=, calling=, reg\_cfp=0x7fc7bdc4e9b8, ec=0x55946da519c8) at vm\_inshelper.c:1928  
#174 vm\_call\_cfunc (ec=0x55946da519c8, reg\_cfp=0x7fc7bdc4e9b8, calling=, ci=0x55946ea12160, cc=) at vm\_inshelper.c:1944  
#175 0x000055946cf03ea3 in vm\_call\_method (ec=0x55946da519c8, cfp=0x7fc7bdc4e9b8, calling=, ci=, cc=) at vm\_inshelper.c:2417  
#176 0x000055946cf0b5c2 in vm\_exec\_core (ec=ec@entry=0x55946da519c8, initial=initial@entry=0) at /tmp/ruby-build.20180216151216.13740/ruby-trunk/insns.def:779  
#177 0x000055946cf02f4c in vm\_exec (ec=0x55946da519c8) at vm.c:1804  
#178 0x000055946cf118d1 in rb\_iseq\_eval (iseq=iseq@entry=0x55946e3d7c48) at vm.c:2046  
#179 0x000055946cdd2164 in rb\_load\_internal0 (ec=ec@entry=0x55946da519c8, fname=fname@entry=94095988920840, wrap=) at load.c:611  
#180 0x000055946cdd2850 in rb\_load\_internal (wrap=0, fname=94095988920840) at load.c:642  
#181 rb\_f\_load (argc=, argv=) at load.c:710  
#182 0x000055946cefb61f in vm\_call\_cfunc\_with\_frame (ci=0x55946e7c96e0, cc=, calling=, reg\_cfp=0x7fc7bdc4ea28, ec=0x55946da519c8) at vm\_inshelper.c:1928  
#183 vm\_call\_cfunc (ec=0x55946da519c8, reg\_cfp=0x7fc7bdc4ea28, calling=, ci=0x55946e7c96e0, cc=) at vm\_inshelper.c:1944  
#184 0x000055946cf03ea3 in vm\_call\_method (ec=0x55946da519c8, cfp=0x7fc7bdc4ea28, calling=, ci=, cc=) at vm\_inshelper.c:2417  
#185 0x000055946cf0b5c2 in vm\_exec\_core (ec=ec@entry=0x55946da519c8, initial=initial@entry=0) at /tmp/ruby-build.20180216151216.13740/ruby-trunk/insns.def:779  
#186 0x000055946cf02f4c in vm\_exec (ec=ec@entry=0x55946da519c8) at vm.c:1804  
#187 0x000055946cf035fc in invoke\_block (captured=0x7fc7bdc4eae8, opt\_pc=, type=, cref=0x0, self=94095998891400, iseq=0x55946e4dae10, ec=0x55946da519c8) at vm.c:1005  
#188 invoke\_iseq\_block\_from\_c (ec=0x55946da519c8, captured=0x7fc7bdc4eae8, self=94095998891400, argc=, argv=, passed\_block\_handler=0, cref=0x0, is\_lambda=0) at vm.c:1057  
#189 0x000055946cf04699 in invoke\_block\_from\_c\_bh (argc=, passed\_block\_handler=, cref=, is\_lambda=, force\_blockarg=, argv=, block\_handler=, ec=) at vm.c:1075  
#190 vm\_yield (argc=1, argv=0x7ffd6f6ce8e8, ec=) at vm.c:1120  
#191 rb\_yield\_0 (argv=0x7ffd6f6ce8e8, argc=1) at vm\_eval.c:980  
#192 rb\_yield\_1 (val=94095988924840) at vm\_eval.c:986  
#193 rb\_yield (val=) at vm\_eval.c:996  
#194 0x000055946cf2113d in rb\_ary\_each (ary=94095988920960) at array.c:1820  
#195 0x000055946cefb61f in vm\_call\_cfunc\_with\_frame (ci=0x55946e421000, cc=, calling=, reg\_cfp=0x7fc7bdc4ead0, ec=0x55946da519c8) at vm\_inshelper.c:1928  
#196 vm\_call\_cfunc (ec=0x55946da519c8, reg\_cfp=0x7fc7bdc4ead0, calling=, ci=0x55946e421000, cc=) at vm\_inshelper.c:1944  
#197 0x000055946cf03ea3 in vm\_call\_method (ec=0x55946da519c8, cfp=0x7fc7bdc4ead0, calling=, ci=, cc=) at vm\_inshelper.c:2417  
#198 0x000055946cf0cb05 in vm\_exec\_core (ec=ec@entry=0x55946da519c8, initial=initial@entry=0) at /tmp/ruby-build.20180216151216.13740/ruby-trunk/insns.def:716  
#199 0x000055946cf02f4c in vm\_exec (ec=0x55946da519c8) at vm.c:1804  
#200 0x000055946cf118d1 in rb\_iseq\_eval (iseq=iseq@entry=0x55946e35f2c0) at vm.c:2046  
#201 0x000055946cdd2164 in rb\_load\_internal0 (ec=ec@entry=0x55946da519c8, fname=fname@entry=94095992643280, wrap=) at load.c:611  
#202 0x000055946cdd2850 in rb\_load\_internal (wrap=0, fname=94095992643280) at load.c:642  
#203 rb\_f\_load (argc=, argv=) at load.c:710  
#204 0x000055946cefb61f in vm\_call\_cfunc\_with\_frame (ci=0x55946e24bb20, cc=, calling=, reg\_cfp=0x7fc7bdc4ec58, ec=0x55946da519c8) at vm\_inshelper.c:1928  
#205 vm\_call\_cfunc (ec=0x55946da519c8, reg\_cfp=0x7fc7bdc4ec58, calling=, ci=0x55946e24bb20, cc=) at vm\_inshelper.c:1944  
#206 0x000055946cf03ea3 in vm\_call\_method (ec=0x55946da519c8, cfp=0x7fc7bdc4ec58, calling=, ci=, cc=) at vm\_inshelper.c:2417  
#207 0x000055946cf0b5c2 in vm\_exec\_core (ec=ec@entry=0x55946da519c8, initial=initial@entry=0) at /tmp/ruby-build.20180216151216.13740/ruby-trunk/insns.def:779  
#208 0x000055946cf02f4c in vm\_exec (ec=0x55946da519c8) at vm.c:1804  
#209 0x000055946cf118d1 in rb\_iseq\_eval (iseq=iseq@entry=0x55946e3a7390) at vm.c:2046  
#210 0x000055946cdd2164 in rb\_load\_internal0 (ec=ec@entry=0x55946da519c8, fname=fname@entry=94095993616120, wrap=) at load.c:611  
#211 0x000055946cdd2850 in rb\_load\_internal (wrap=0, fname=94095993616120) at load.c:642  
#212 rb\_f\_load (argc=, argv=) at load.c:710  
#213 0x000055946cefb61f in vm\_call\_cfunc\_with\_frame (ci=0x55946e6a00d0, cc=, calling=, reg\_cfp=0x7fc7bdc4ecc8, ec=0x55946da519c8) at vm\_inshelper.c:1928  
#214 vm\_call\_cfunc (ec=0x55946da519c8, reg\_cfp=0x7fc7bdc4ecc8, calling=, ci=0x55946e6a00d0, cc=) at vm\_inshelper.c:1944  
#215 0x000055946cf03ea3 in vm\_call\_method (ec=0x55946da519c8, cfp=0x7fc7bdc4ecc8, calling=, ci=, cc=) at vm\_inshelper.c:2417  
#216 0x000055946cf0b5c2 in vm\_exec\_core (ec=ec@entry=0x55946da519c8, initial=initial@entry=0) at /tmp/ruby-build.20180216151216.13740/ruby-trunk/insns.def:779  
#217 0x000055946cf02f4c in vm\_exec (ec=0x55946da519c8) at vm.c:1804  
#218 0x000055946cf118d1 in rb\_iseq\_eval (iseq=iseq@entry=0x55946e470100) at vm.c:2046  
#219 0x000055946cdd2164 in rb\_load\_internal0 (ec=ec@entry=0x55946da519c8, fname=fname@entry=94095993672200, wrap=) at load.c:611  
#220 0x000055946cdd2850 in rb\_load\_internal (wrap=0, fname=94095993672200) at load.c:642  
#221 rb\_f\_load (argc=, argv=) at load.c:710

#222 0x000055946cefcb61f in vm\_call\_cfunc\_with\_frame (ci=0x55946e3306a0, cc=, calling=, reg\_cfp=0x7fc7bdc4efa0, ec=0x55946da519c8) at vm\_inshelper.c:1928  
#223 vm\_call\_cfunc (ec=0x55946da519c8, reg\_cfp=0x7fc7bdc4efa0, calling=, ci=0x55946e3306a0, cc=) at vm\_inshelper.c:1944  
#224 0x000055946cf03ea3 in vm\_call\_method (ec=0x55946da519c8, cfp=0x7fc7bdc4efa0, calling=, ci=, cc=) at vm\_inshelper.c:2417  
#225 0x000055946cf0b5c2 in vm\_exec\_core (ec=ec@entry=0x55946da519c8, initial=initial@entry=0) at /tmp/ruby-build.20180216151216.13740/ruby-trunk/insns.def:779  
#226 0x000055946cf02f4c in vm\_exec (ec=0x55946da519c8) at vm.c:1804  
#227 0x000055946cf119d5 in rb\_iseq\_eval\_main (iseq=iseq@entry=0x55946e4bbba0) at vm.c:2057  
#228 0x000055946cd83d54 in ruby\_exec\_internal (n=0x55946e4bbba0) at eval.c:247  
#229 0x000055946cd87fd9 in ruby\_exec\_node (n=0x55946e4bbba0) at eval.c:311  
#230 ruby\_run\_node (n=) at eval.c:303  
#231 0x000055946cd831bf in main (argc=22, argv=0x7ffd6f6d0148) at ./main.c:42

## Revision 62433 - 02/16/2018 02:45 PM - k0kubun (Takashi Kokubun)

mjit.c: fix deadlock on class serial increment

This is reported by @hasimo. Fixing a case like this:

#0 **lll\_lock\_wait ()** at **./sysdeps/unix/sysv/linux/x86\_64/lowlevellock.S:135**  
#1 **0x00007fc7bd824dbd** in **\_\_GI\_pthread\_mutex\_lock** (mutex=mutex@entry=0x55946d294440) at **./nptl/pthread\_mutex\_lock.c:80** 4  
#2 0x000055946cec54d9 in **rb\_native\_mutex\_lock** (lock=lock@entry=0x55946d294440) at **thread\_pthread.c:211**  
#3 0x000055946cde10ca in **CRITICAL\_SECTION\_START** (msg=0x55946cfb5423 "mjit\_gc\_start\_hook", level=4) at **mjit.c:392**  
#4 **mjit\_gc\_start\_hook ()** at **mjit.c:412**  
#5 0x000055946cda0dfe in **gc\_enter** (event=0x55946cfaf91e "gc\_rest", objspace=0x55946da51760) at **gc.c:6623**  
#6 **gc\_rest** (objspace=objspace@entry=0x55946da51760) at **gc.c:6515**  
#7 0x000055946cd9f1cf in **gc\_rest** (objspace=0x55946da51760) at **gc.c:7841**  
#8 **objspace\_malloc\_increase** (objspace=objspace@entry=0x55946da51760, new\_size=, old\_size=old\_size@entry=0, type=type@entry=MEMOP\_TYPE\_MALLOC, mem=0x7fc7a4439010) at **gc.c:7842**  
#9 0x000055946cda1706 in **objspace\_malloc\_fixup** (size=, mem=0x7fc7a4439010, objspace=0x55946da51760) at **gc.c:7910**  
#10 **objspace\_xmalloc0** (objspace=0x55946da51760, size=, size@entry=3145728) at **gc.c:7939**  
#11 0x000055946cda3620 in **ruby\_xmalloc0** (size=3145728) at **gc.c:8006**  
#12 **ruby\_xmalloc** (size=size@entry=3145728) at **gc.c:8015**  
#13 0x000055946ce93f4c in **st\_init\_table\_with\_size** (type=0x55946d28da30, size=) at **st.c:602**  
#14 0x000055946ce94287 in **rebuild\_table** (tab=tab@entry=0x55946db669f0) at **st.c:777**  
#15 0x000055946ce963f7 in **rebuild\_table\_if\_necessary** (tab=0x55946db669f0) at **st.c:1139**  
#16 **st\_add\_direct\_with\_hash** (hash=8577035585096733536, value=20, key=808451, tab=0x55946db669f0) at **st.c:1207**  
#17 **st\_update** (tab=0x55946db669f0, key=key@entry=808451, func=, arg=140726472841392) at **st.c:1512**  
#18 0x000055946cda9e27 in **tbl\_update** (optional\_arg=, func=, key=, hash=) at **hash.c:561**  
#19 **rb\_hash\_aset** (hash=94095983218480, key=key@entry=808451, val=val@entry=20) at **hash.c:1654**  
#20 0x000055946cde243a in **mjit\_add\_class\_serial** (class\_serial=class\_serial@entry=404225) at **mjit.c:1414** 3  
#21 0x000055946cefcb61f in **rb\_next\_class\_serial ()** at **vm.c:321**  
#22 0x000055946cf48324 in **class\_alloc** (klass=, flags=28) at **class.c:178**  
#23 **rb\_include\_class\_new** (module=module@entry=94096115733840, super=0) at **class.c:820**  
#24 0x000055946cf487ac in **include\_modules\_at** (klass=klass@entry=94096135960920, c=, module=, module@entry=94096115734160, search\_super=search\_super@entry=1) at **class.c:913**  
#25 0x000055946cf48ac8 in **rb\_include\_module** (klass=94096135960920, module=module@entry=94096115734160) at **class.c:870**  
#26 0x000055946cd84993 in **rb\_mod\_append\_features** (module=94096115734160, include=) at **eval.c:1178**  
#27 0x000055946cf06829 in **vm\_call0\_cfunc\_with\_frame** (ci=0x7ffd6f6c9a20, cc=0x7ffd6f6c9ba0, argv=0x7ffd6f6c9ba0, calling=0x7ffd6f6c9a30, ec=0x55946da519c8) at **vm\_eval.c:87**  
#28 **vm\_call0\_cfunc** (argv=0x7ffd6f6c9ba0, cc=0x7ffd6f6c9ba0, ci=0x7ffd6f6c9a20, calling=0x7ffd6f6c9a30, ec=0x55946da519c8) at **vm\_eval.c:102**  
#29 **vm\_call0\_body** (ec=ec@entry=0x55946da519c8, calling=calling@entry=0x7ffd6f6c9ae0, ci=ci@entry=0x7ffd6f6c9ad0, cc=cc@entry=0x7ffd6f6c9b00, argv=argv@entry=0x7ffd6f6c9ba0) at **vm\_eval.c:133**  
#30 0x000055946cf074b2 in **vm\_call0** (me=, argv=0x7ffd6f6c9ba0, argc=1, id=4849, recv=94096115734160, ec=0x55946da519c8) at **vm\_eval.c:60**  
#31 **rb\_call0** (ec=0x55946da519c8, recv=94096115734160, mid=4849, mid@entry=94096135960920, argc=argc@entry=1, argv=argv@entry=0x7ffd6f6c9ba0, scope=scope@entry=CALL\_FCALL, self=94096135960920) at **vm\_eval.c:302**  
#32 0x000055946cf07b9b in **rb\_call** (scope=CALL\_FCALL, argv=0x7ffd6f6c9ba0, argc=1, mid=94096135960920, recv=) at **vm\_eval.c:595**  
#33 **rb\_funcallv** (recv=, mid=mid@entry=4849, argc=argc@entry=1, argv=argv@entry=0x7ffd6f6c9ba0) at **vm\_eval.c:825**  
#34 0x000055946cd848a7 in **rb\_mod\_include** (argc=0, argv=0x7fc7bdb4fce8, module=94096135960920) at **eval.c:1203**  
#35 0x000055946cefcb61f in **vm\_call\_cfunc\_with\_frame** (ci=0x5594710c06b0, cc=, calling=, reg\_cfp=0x7fc7bdc4df00, ec=0x55946da519c8) at vm\_inshelper.c:1928  
#36 **vm\_call\_cfunc** (ec=0x55946da519c8, reg\_cfp=0x7fc7bdc4df00, calling=, ci=0x5594710c06b0, cc=) at vm\_inshelper.c:1944  
#37 0x000055946cf0b5c2 in **vm\_exec\_core** (ec=ec@entry=0x55946da519c8, initial=initial@entry=0) at /tmp/ruby-build.20180216151216.13740/ruby-trunk/insns.def:779  
#38 0x000055946cf02f4c in **vm\_exec** (ec=ec@entry=0x55946da519c8) at **vm.c:1804**  
#39 0x000055946cf035fc in **invoke\_block** (captured=0x7ffd6f6ca0a0, opt\_pc=, type=, cref=0x559476c23930, self=94096135960920, iseq=0x559471335ee0, ec=0x55946da519c8) at **vm.c:1005**  
#40 **invoke\_iseq\_block\_from\_c** (ec=0x55946da519c8, captured=0x7ffd6f6ca0a0, self=94096135960920, argc=, argv=, passed\_block\_handler=, cref=0x559476c23930, is\_lambda=0) at **vm.c:1057**  
#41 0x000055946cf04520 in **invoke\_block\_from\_c\_bh** (ec=ec@entry=0x55946da519c8, block\_handler=, argc=argc@entry=1, argv=argv@entry=0x7ffd6f6ca108, cref=, is\_lambda=, is\_lambda@entry=0, force\_blockarg=0, passed\_block\_handler=0) at **vm.c:1075**  
#42 0x000055946cf04958 in **vm\_yield\_with cref** (is\_lambda=0, cref=, argv=0x7ffd6f6ca108, argc=1, ec=0x55946da519c8) at **vm.c:1112**  
#43 **yield\_under** (under=94096135960920, self=, argc=argc@entry=1, argv=argv@entry=0x7ffd6f6ca108) at **vm\_eval.c:1572**  
#44 0x000055946cf04b12 in **rb\_mod\_module\_exec** (argc=argc@entry=1, argv=argv@entry=0x7ffd6f6ca108, mod=) at **vm\_eval.c:1770**  
#45 0x000055946ce00fc6 in **rb\_mod\_initialize** (module=94096135960920) at **object.c:1978**

#46 0x000055946cf06829 in vm\_call0\_cfunc\_with\_frame (ci=0x7ffd6f6ca130, cc=0x7fc7bdb4fc98, argv=0x7fc7bdb4fc98, calling=0x7ffd6f6ca140, ec=0x55946da519c8) at vm\_eval.c:87  
#47 vm\_call0\_cfunc (argv=0x7fc7bdb4fc98, cc=0x7fc7bdb4fc98, ci=0x7ffd6f6ca130, calling=0x7ffd6f6ca140, ec=0x55946da519c8) at vm\_eval.c:102  
#48 vm\_call0\_body (ec=ec@entry=0x55946da519c8, calling=calling@entry=0x7ffd6f6ca1f0, ci=ci@entry=0x7ffd6f6ca1e0, cc=cc@entry=0x7ffd6f6ca210, argv=argv@entry=0x7fc7bdb4fc98) at vm\_eval.c:133  
#49 0x000055946cf074b2 in vm\_call0 (me=, argv=0x7fc7bdb4fc98, argc=0, id=3057, recv=94096135960920, ec=0x55946da519c8) at vm\_eval.c:60  
#50 rb\_call0 (ec=0x55946da519c8, recv=recv@entry=94096135960920, mid=mid@entry=3057, argc=argc@entry=3057, argv=argv@entry=0x0, scope=scope@entry=CALL\_FCALL, self=94095983466120) at vm\_eval.c:302  
#51 0x000055946cf07b9b in rb\_call (scope=CALL\_FCALL, argv=0x0, argc=3057, mid=3057, recv=94096135960920) at vm\_eval.c:595  
#52 rb\_funcallv (recv=recv@entry=94096135960920, mid=mid@entry=3057, argc=argc@entry=0, argv=argv@entry=0x7fc7bdb4fc98) at vm\_eval.c:825  
#53 0x000055946cd89673 in rb\_obj\_call\_init (obj=obj@entry=94096135960920, argc=argc@entry=0, argv=argv@entry=0x7fc7bdb4fc98) at eval.c:1590  
#54 0x000055946ce048a1 in rb\_class\_s\_new (argc=0, argv=0x7fc7bdb4fc98, klass=) at object.c:2153  
#55 0x000055946cefb61f in vm\_call\_cfunc\_with\_frame (ci=0x559471339c80, cc=, calling=, reg\_cfp=0x7fc7bdc4dfa8, ec=0x55946da519c8) at vm\_inshelper.c:1928  
#56 vm\_call\_cfunc (ec=0x55946da519c8, reg\_cfp=0x7fc7bdc4dfa8, calling=, ci=0x559471339c80, cc=) at vm\_inshelper.c:1944  
#57 0x000055946cf0cb05 in vm\_exec\_core (ec=ec@entry=0x55946da519c8, initial=initial@entry=0) at /tmp/ruby-build.20180216151216.13740/ruby-trunk/insns.def:716  
#58 0x000055946cf02f4c in vm\_exec (ec=ec@entry=0x55946da519c8) at vm.c:1804  
#59 0x000055946cf03274 in invoke\_bmethod (ec=ec@entry=0x55946da519c8, iseq=iseq@entry=0x55946f15cb0c0, self=self@entry=94096115734640, me=me@entry=0x559475664e28, type=type@entry=572653825, opt\_pc=0, captured=0x55947158e8a0) at vm.c:1026  
#60 0x000055946cf03534 in invoke\_iseq\_block\_from\_c (ec=0x55946da519c8, captured=0x55947158e8a0, self=94096115734640, argc=, argv=, passed\_block\_handler=0, cref=0x0, is\_lambda=1) at vm.c:1060  
#61 0x000055946cf036ce in invoke\_block\_from\_c\_proc (ec=, proc=, self=, argc=1, argv=, passed\_block\_handler=, is\_lambda=) at vm.c:1150  
#62 0x000055946cf03811 in vm\_invoke\_bmethod (block\_handler=, argv=, argc=1, self=, proc=, ec=0x55946da519c8) at vm.c:1175  
#63 vm\_call\_bmethod\_body (ci=, cc=0x55946f625960, argv=, calling=0x7ffd6f6ca9b0, ec=0x55946da519c8) at vm\_inshelper.c:1971  
#64 vm\_call\_bmethod (ec=0x55946da519c8, cfp=0x7fc7bdc4e0c0, calling=0x7ffd6f6ca9b0, ci=, cc=0x55946f625960) at vm\_inshelper.c:1988  
#65 0x000055946cf03ea3 in vm\_call\_method (ec=0x55946da519c8, cfp=0x7fc7bdc4e0c0, calling=, ci=, cc=) at vm\_inshelper.c:2417  
#66 0x000055946cf0e63e in vm\_exec\_core (ec=ec@entry=0x55946da519c8, initial=initial@entry=0) at /tmp/ruby-build.20180216151216.13740/ruby-trunk/insns.def:797  
#67 0x000055946cf02f4c in vm\_exec (ec=ec@entry=0x55946da519c8) at vm.c:1804  
#68 0x000055946cf06767 in vm\_call0\_body (ec=ec@entry=0x55946da519c8, calling=calling@entry=0x7ffd6f6cad00, ci=ci@entry=0x7ffd6f6cacf0, cc=cc@entry=0x7ffd6f6cad20, argv=argv@entry=0x7ffd6f6cadb0) at vm\_eval.c:129  
#69 0x000055946cf074b2 in vm\_call0 (me=, argv=0x7ffd6f6cadb0, argc=1, id=3681, recv=94096115734640, ec=0x55946da519c8) at vm\_eval.c:60  
#70 rb\_call0 (ec=0x55946da519c8, recv=recv@entry=94096115734640, mid=3681, argc=argc@entry=1, argv=argv@entry=0x7ffd6f6cad90, scope=scope@entry=CALL\_FCALL, self=94095983452880) at vm\_eval.c:302  
#71 0x000055946cf07b9b in rb\_call (scope=CALL\_FCALL, argv=0x7ffd6f6cad90, argc=1, mid=, recv=94096115734640) at vm\_eval.c:595  
#72 rb\_funcallv (recv=recv@entry=94096115734640, mid=, argc=argc@entry=1, argv=argv@entry=0x7ffd6f6cadb0) at vm\_eval.c:825  
#73 0x000055946cf477d2 in rb\_class\_inherited (super=super@entry=94096115734640, klass=class@entry=94096135961440) at class.c:625  
#74 0x000055946cf0f796 in vm\_declare\_class (super=, cbase=94096094868200, flags=, id=847387) at vm\_inshelper.c:3134  
#75 vm\_define\_class (super=, cbase=, flags=, id=847387) at vm\_inshelper.c:3167  
#76 vm\_find\_or\_create\_class\_by\_id (super=, cbase=, flags=, id=847387) at vm\_inshelper.c:3196  
#77 vm\_exec\_core (ec=ec@entry=0x55946da519c8, initial=initial@entry=0) at /tmp/ruby-build.20180216151216.13740/ruby-trunk/insns.def:685  
#78 0x000055946cf02f4c in vm\_exec (ec=0x55946da519c8) at vm.c:1804  
#79 0x000055946cf118d1 in rb\_iseq\_eval (iseq=iseq@entry=0x559471f1b548) at vm.c:2046  
#80 0x000055946cdd2164 in rb\_load\_internal0 (ec=ec@entry=0x55946da519c8, fname=fname@entry=94096135872160, wrap=wrap@entry=0) at load.c:611  
#81 0x000055946cdd41f1 in rb\_require\_internal (fname=94096135872400, fname@entry=94096135872440, safe=0) at load.c:992  
#82 0x000055946cdd4493 in rb\_require\_safe (safe=, fname=94096135872440) at load.c:1038  
#83 rb\_f\_require (obj=, fname=94096135872440) at load.c:820  
#84 0x000055946cefb61f in vm\_call\_cfunc\_with\_frame (ci=0x5594708700a0, cc=, calling=, reg\_cfp=0x7fc7bdc4e168, ec=0x55946da519c8) at vm\_inshelper.c:1928  
#85 vm\_call\_cfunc (ec=0x55946da519c8, reg\_cfp=0x7fc7bdc4e168, calling=, ci=0x5594708700a0, cc=) at vm\_inshelper.c:1944  
#86 0x000055946cf03ea3 in vm\_call\_method (ec=0x55946da519c8, cfp=0x7fc7bdc4e168, calling=, ci=, cc=) at vm\_inshelper.c:2417  
#87 0x000055946cf0e63e in vm\_exec\_core (ec=ec@entry=0x55946da519c8, initial=initial@entry=0) at /tmp/ruby-build.20180216151216.13740/ruby-trunk/insns.def:797  
#88 0x000055946cf02f4c in vm\_exec (ec=ec@entry=0x55946da519c8) at vm.c:1804  
#89 0x000055946cf035fc in invoke\_block (captured=0x7fc7bdc4e490, opt\_pc=, type=, cref=0x0, self=94096096426480, iseq=0x55946e49f0b8, ec=0x55946da519c8) at vm.c:1005  
#90 invoke\_iseq\_block\_from\_c (ec=0x55946da519c8, captured=0x7fc7bdc4e490, self=94096096426480, argc=, argv=, passed\_block\_handler=0, cref=0x0, is\_lambda=0) at vm.c:1057  
#91 0x000055946cf04699 in invoke\_block\_from\_c\_bh (argc=, passed\_block\_handler=, cref=, is\_lambda=, force\_blockarg=, argv=, block\_handler=, ec=) at vm.c:1075  
#92 vm\_yield (argc=1, argv=0x7ffd6f6cb938, ec=) at vm.c:1120  
#93 rb\_yield\_0 (argv=0x7ffd6f6cb938, argc=1) at vm\_eval.c:980  
#94 rb\_yield\_1 (val=94096130169040) at vm\_eval.c:986  
#95 rb\_yield (val=) at vm\_eval.c:996  
#96 0x000055946cf2113d in rb\_ary\_each (ary=94096076222560) at array.c:1820  
#97 0x000055946cefb61f in vm\_call\_cfunc\_with\_frame (ci=0x55946ed0d090, cc=, calling=, reg\_cfp=0x7fc7bdc4e478, ec=0x55946da519c8) at vm\_inshelper.c:1928  
#98 vm\_call\_cfunc (ec=0x55946da519c8, reg\_cfp=0x7fc7bdc4e478, calling=, ci=0x55946ed0d090, cc=) at vm\_inshelper.c:1944  
#99 0x000055946cf0cb05 in vm\_exec\_core (ec=ec@entry=0x55946da519c8, initial=initial@entry=0) at /tmp/ruby-build.20180216151216.13740/ruby-trunk/insns.def:716

#100 0x000055946cf02f4c in vm\_exec (ec=ec@entry=0x55946da519c8) at vm.c:1804  
#101 0x000055946cf035fc in invoke\_block (captured=0x7fc7bdc4e500, opt\_pc=, type=, cref=0x0, self=94096096426480, iseq=0x55946e49f298, ec=0x55946da519c8) at vm.c:1005  
#102 invoke\_iseq\_block\_from\_c (ec=0x55946da519c8, captured=0x7fc7bdc4e500, self=94096096426480, argc=, argv=, passed\_block\_handler=0, cref=0x0, is\_lambda=0) at vm.c:1057  
#103 0x000055946cf04699 in invoke\_block\_from\_c\_bh (argc=, passed\_block\_handler=, cref=, is\_lambda=, force\_blockarg=, argv=, block\_handler=, ec=) at vm.c:1075  
#104 vm\_yield (argc=1, argv=0x7ffd6f6cbdf8, ec=) at vm.c:1120  
#105 rb\_yield\_0 (argv=0x7ffd6f6cbdf8, argc=1) at vm\_eval.c:980  
#106 rb\_yield\_1 (val=94096095502480) at vm\_eval.c:986  
#107 rb\_yield (val=) at vm\_eval.c:996  
#108 0x000055946cf2113d in rb\_ary\_each (ary=94096095328480) at array.c:1820  
#109 0x000055946cfb61f in vm\_call\_cfunc\_with\_frame (ci=0x55946e8552a0, cc=, calling=, reg\_cfp=0x7fc7bdc4e4e8, ec=0x55946da519c8) at vm\_inshelper.c:1928  
#110 vm\_call\_cfunc (ec=0x55946da519c8, reg\_cfp=0x7fc7bdc4e4e8, calling=, ci=0x55946e8552a0, cc=) at vm\_inshelper.c:1944  
#111 0x000055946cf0cb05 in vm\_exec\_core (ec=ec@entry=0x55946da519c8, initial=initial@entry=0) at /tmp/ruby-build.20180216151216.13740/ruby-trunk/insns.def:716  
#112 0x000055946cf02f4c in vm\_exec (ec=ec@entry=0x55946da519c8) at vm.c:1804  
#113 0x000055946cf06767 in vm\_call0\_body (ec=ec@entry=0x55946da519c8, calling=calling@entry=0x7ffd6f6cc2d0, ci=ci@entry=0x7ffd6f6cc2c0, cc=cc@entry=0x7ffd6f6cc2f0, argv=argv@entry=0x7ffd6f6cc390) at vm\_eval.c:129  
#114 0x000055946cf074b2 in vm\_call0 (me=, argv=0x7ffd6f6cc390, argc=0, id=135807, recv=94096096186440, ec=0x55946da519c8) at vm\_eval.c:60  
#115 rb\_call0 (ec=0x55946da519c8, recv=94096096186440, mid=135807, argc=, argv=argv@entry=0x8, scope=scope@entry=CALL\_PUBLIC, self=94095993048320) at vm\_eval.c:302  
#116 0x000055946cf0a31a in rb\_call (scope=CALL\_PUBLIC, argv=0x8, argc=, mid=, recv=) at vm\_eval.c:595  
#117 rb\_funcall\_with\_block (recv=, mid=, argc=argc@entry=0, argv=argv@entry=0x7ffd6f6cc390, passed\_procval=passed\_procval@entry=8) at vm\_eval.c:857  
#118 0x000055946ceb319c in rb\_sym\_proc\_call (mid=, argc=argc@entry=1, argv=argv@entry=0x7ffd6f6cc388, passed\_proc=passed\_proc@entry=8) at string.c:10480  
#119 0x000055946cf0477c in vm\_yield\_with\_symbol (block\_handler=0, argv=0x7ffd6f6cc388, argc=1, symbol=, ec=) at vm\_inshelper.c:2573  
#120 invoke\_block\_from\_c\_bh (argc=, passed\_block\_handler=, cref=, is\_lambda=, force\_blockarg=, argv=, block\_handler=, ec=) at vm.c:1084  
#121 vm\_yield (argc=1, argv=0x7ffd6f6cc388, ec=) at vm.c:1120  
#122 rb\_yield\_0 (argv=0x7ffd6f6cc388, argc=1) at vm\_eval.c:980  
#123 rb\_yield\_1 (val=94096096186440) at vm\_eval.c:986  
#124 rb\_yield (val=) at vm\_eval.c:996  
#125 0x000055946cf2113d in rb\_ary\_each (ary=94095993048320) at array.c:1820  
#126 0x000055946cfb61f in vm\_call\_cfunc\_with\_frame (ci=0x5594744d8280, cc=, calling=, reg\_cfp=0x7fc7bdc4e590, ec=0x55946da519c8) at vm\_inshelper.c:1928  
#127 vm\_call\_cfunc (ec=0x55946da519c8, reg\_cfp=0x7fc7bdc4e590, calling=, ci=0x5594744d8280, cc=) at vm\_inshelper.c:1944  
#128 0x000055946cf03ea3 in vm\_call\_method (ec=0x55946da519c8, cfp=0x7fc7bdc4e590, calling=, ci=, cc=) at vm\_inshelper.c:2417  
#129 0x000055946cf0cb05 in vm\_exec\_core (ec=ec@entry=0x55946da519c8, initial=initial@entry=0) at /tmp/ruby-build.20180216151216.13740/ruby-trunk/insns.def:716  
#130 0x000055946cf02f4c in vm\_exec (ec=ec@entry=0x55946da519c8) at vm.c:1804  
#131 0x000055946cf035fc in invoke\_block (captured=0x7ffd6f6cc8e0, opt\_pc=, type=, cref=0x559474604128, self=94096096426480, iseq=0x5594745027e8, ec=0x55946da519c8) at vm.c:1005  
#132 invoke\_iseq\_block\_from\_c (ec=0x55946da519c8, captured=0x7ffd6f6cc8e0, self=94096096426480, argc=, argv=, passed\_block\_handler=0, cref=0x559474604128, is\_lambda=0) at vm.c:1057  
#133 0x000055946cf04520 in invoke\_block\_from\_c\_bh (ec=ec@entry=0x55946da519c8, block\_handler=, argc=argc@entry=1, argv=argv@entry=0x7fc7bdb4f7f8, cref=, is\_lambda=, is\_lambda@entry=0, force\_blockarg=0, passed\_block\_handler=0) at vm.c:1075  
#134 0x000055946cf04958 in vm\_yield\_with\_cref (is\_lambda=0, cref=, argv=0x7fc7bdb4f7f8, argc=1, ec=0x55946da519c8) at vm.c:1112  
#135 yield\_under (under=94096093646040, self=, argc=1, argv=0x7fc7bdb4f7f8) at vm\_eval.c:1572  
#136 0x000055946cfb61f in vm\_call\_cfunc\_with\_frame (ci=0x55946e5cd230, cc=, calling=, reg\_cfp=0x7fc7bdc4e600, ec=0x55946da519c8) at vm\_inshelper.c:1928  
#137 vm\_call\_cfunc (ec=0x55946da519c8, reg\_cfp=0x7fc7bdc4e600, calling=, ci=0x55946e5cd230, cc=) at vm\_inshelper.c:1944  
#138 0x000055946cf0cb05 in vm\_exec\_core (ec=ec@entry=0x55946da519c8, initial=initial@entry=0) at /tmp/ruby-build.20180216151216.13740/ruby-trunk/insns.def:716  
#139 0x000055946cf02f4c in vm\_exec (ec=ec@entry=0x55946da519c8) at vm.c:1804  
#140 0x000055946cf035fc in invoke\_block (captured=0x5594744c4fb0, opt\_pc=, type=, cref=0x0, self=94095990659320, iseq=0x55946e192aa0, ec=0x55946da519c8) at vm.c:1005  
#141 invoke\_iseq\_block\_from\_c (ec=0x55946da519c8, captured=0x5594744c4fb0, self=94095990659320, argc=, argv=, passed\_block\_handler=0, cref=0x0, is\_lambda=0) at vm.c:1057  
#142 0x000055946cf04699 in invoke\_block\_from\_c\_bh (argc=, passed\_block\_handler=, cref=, is\_lambda=, force\_blockarg=, argv=, block\_handler=, ec=) at vm.c:1075  
#143 vm\_yield (argc=1, argv=0x7ffd6f6ccdc8, ec=) at vm.c:1120  
#144 rb\_yield\_0 (argv=0x7ffd6f6ccdc8, argc=1) at vm\_eval.c:980  
#145 rb\_yield\_1 (val=94096094867920) at vm\_eval.c:986  
#146 rb\_yield (val=) at vm\_eval.c:996  
#147 0x000055946cf2113d in rb\_ary\_each (ary=94096094867160) at array.c:1820  
#148 0x000055946cf06829 in vm\_call0\_cfunc\_with\_frame (ci=0x7ffd6f6cce00, cc=0x7ffd6f6cce70, argv=0x7fc7bdb4f6b8, calling=0x7ffd6f6cce50, ec=0x55946da519c8) at vm\_eval.c:87  
#149 vm\_call0\_cfunc (argv=0x7fc7bdb4f6b8, cc=0x7ffd6f6cce70, ci=0x7ffd6f6cce00, calling=0x7ffd6f6cce50, ec=0x55946da519c8) at vm\_eval.c:102  
#150 vm\_call0\_body (ec=0x55946da519c8, calling=calling@entry=0x7ffd6f6cce00, ci=ci@entry=0x7ffd6f6cceb0, cc=cc@entry=0x7ffd6f6cce00, argv=0x7fc7bdb4f6b8) at vm\_eval.c:133  
#151 0x000055946cf06c50 in vm\_call0 (me=, argv=, argc=, id=, recv=, ec=) at vm\_eval.c:60  
#152 rb\_vm\_call (ec=, recv=, id=, argc=, argv=, me=) at vm\_eval.c:209

#153 0x000055946cefb61f in vm\_call\_cfunc\_with\_frame (ci=0x55946dba2780, cc=, calling=, reg\_cfp=0x7fc7bdc4e7c0, ec=0x55946da519c8) at vm\_inshelper.c:1928  
#154 vm\_call\_cfunc (ec=0x55946da519c8, reg\_cfp=0x7fc7bdc4e7c0, calling=, ci=0x55946dba2780, cc=) at vm\_inshelper.c:1944  
#155 0x000055946cf03ea3 in vm\_call\_method (ec=0x55946da519c8, cfp=0x7fc7bdc4e7c0, calling=, ci=, cc=) at vm\_inshelper.c:2417  
#156 0x000055946cf0cb05 in vm\_exec\_core (ec=ec@entry=0x55946da519c8, initial=initial@entry=0) at /tmp/ruby-build.20180216151216.13740/ruby-trunk/insns.def:716  
#157 0x000055946cf02f4c in vm\_exec (ec=0x55946da519c8) at vm.c:1804  
#158 0x000055946cf118d1 in rb\_iseq\_eval (iseq=iseq@entry=0x55946dfed3a8) at vm.c:2046  
#159 0x000055946cdd2164 in rb\_load\_internal0 (ec=ec@entry=0x55946da519c8, fname=fname@entry=94095988939080, wrap=wrap@entry=0) at load.c:611  
#160 0x000055946cdd41f1 in rb\_require\_internal (fname=94095988939160, fname@entry=94095988939200, safe=0) at load.c:992  
#161 0x000055946cdd4493 in rb\_require\_safe (safe=, fname=94095988939200) at load.c:1038  
#162 rb\_f\_require (obj=, fname=94095988939200) at load.c:820  
#163 0x000055946cefb61f in vm\_call\_cfunc\_with\_frame (ci=0x55946dffa920, cc=, calling=, reg\_cfp=0x7fc7bdc4e948, ec=0x55946da519c8) at vm\_inshelper.c:1928  
#164 vm\_call\_cfunc (ec=0x55946da519c8, reg\_cfp=0x7fc7bdc4e948, calling=, ci=0x55946dffa920, cc=) at vm\_inshelper.c:1944  
#165 0x000055946cf03ea3 in vm\_call\_method (ec=0x55946da519c8, cfp=0x7fc7bdc4e948, calling=, ci=, cc=) at vm\_inshelper.c:2417  
#166 0x000055946cf0b5c2 in vm\_exec\_core (ec=ec@entry=0x55946da519c8, initial=initial@entry=0) at /tmp/ruby-build.20180216151216.13740/ruby-trunk/insns.def:779  
#167 0x000055946cf02f4c in vm\_exec (ec=0x55946da519c8) at vm.c:1804  
#168 0x000055946cf118d1 in rb\_iseq\_eval (iseq=iseq@entry=0x55946dfef438) at vm.c:2046  
#169 0x000055946cdd2164 in rb\_load\_internal0 (ec=ec@entry=0x55946da519c8, fname=fname@entry=94095993039280, wrap=wrap@entry=0) at load.c:611  
#170 0x000055946cdd41f1 in rb\_require\_internal (fname=fname@entry=94095993043840, safe=0) at load.c:992  
#171 0x000055946cdd4493 in rb\_require\_safe (safe=, fname=94095993043840) at load.c:1038  
#172 rb\_f\_require (obj=, fname=94095993043840) at load.c:820  
#173 0x000055946cefb61f in vm\_call\_cfunc\_with\_frame (ci=0x55946ea12160, cc=, calling=, reg\_cfp=0x7fc7bdc4e9b8, ec=0x55946da519c8) at vm\_inshelper.c:1928  
#174 vm\_call\_cfunc (ec=0x55946da519c8, reg\_cfp=0x7fc7bdc4e9b8, calling=, ci=0x55946ea12160, cc=) at vm\_inshelper.c:1944  
#175 0x000055946cf03ea3 in vm\_call\_method (ec=0x55946da519c8, cfp=0x7fc7bdc4e9b8, calling=, ci=, cc=) at vm\_inshelper.c:2417  
#176 0x000055946cf0b5c2 in vm\_exec\_core (ec=ec@entry=0x55946da519c8, initial=initial@entry=0) at /tmp/ruby-build.20180216151216.13740/ruby-trunk/insns.def:779  
#177 0x000055946cf02f4c in vm\_exec (ec=0x55946da519c8) at vm.c:1804  
#178 0x000055946cf118d1 in rb\_iseq\_eval (iseq=iseq@entry=0x55946e3d7c48) at vm.c:2046  
#179 0x000055946cdd2164 in rb\_load\_internal0 (ec=ec@entry=0x55946da519c8, fname=fname@entry=94095988920840, wrap=) at load.c:611  
#180 0x000055946cdd2850 in rb\_load\_internal (wrap=0, fname=94095988920840) at load.c:642  
#181 rb\_f\_load (argc=, argv=) at load.c:710  
#182 0x000055946cefb61f in vm\_call\_cfunc\_with\_frame (ci=0x55946e7c96e0, cc=, calling=, reg\_cfp=0x7fc7bdc4ea28, ec=0x55946da519c8) at vm\_inshelper.c:1928  
#183 vm\_call\_cfunc (ec=0x55946da519c8, reg\_cfp=0x7fc7bdc4ea28, calling=, ci=0x55946e7c96e0, cc=) at vm\_inshelper.c:1944  
#184 0x000055946cf03ea3 in vm\_call\_method (ec=0x55946da519c8, cfp=0x7fc7bdc4ea28, calling=, ci=, cc=) at vm\_inshelper.c:2417  
#185 0x000055946cf0b5c2 in vm\_exec\_core (ec=ec@entry=0x55946da519c8, initial=initial@entry=0) at /tmp/ruby-build.20180216151216.13740/ruby-trunk/insns.def:779  
#186 0x000055946cf02f4c in vm\_exec (ec=ec@entry=0x55946da519c8) at vm.c:1804  
#187 0x000055946cf035fc in invoke\_block (captured=0x7fc7bdc4eae8, opt\_pc=, type=, cref=0x0, self=9409598891400, iseq=0x55946e4dae10, ec=0x55946da519c8) at vm.c:1005  
#188 invoke\_iseq\_block\_from\_c (ec=0x55946da519c8, captured=0x7fc7bdc4eae8, self=9409598891400, argc=, argv=, passed\_block\_handler=0, cref=0x0, is\_lambda=0) at vm.c:1057  
#189 0x000055946cf04699 in invoke\_block\_from\_c\_bh (argc=, passed\_block\_handler=, cref=, is\_lambda=, force\_blockarg=, argv=, block\_handler=, ec=) at vm.c:1075  
#190 vm\_yield (argc=1, argv=0x7ffd6f6ce8e8, ec=) at vm.c:1120  
#191 rb\_yield\_0 (argv=0x7ffd6f6ce8e8, argc=1) at vm\_eval.c:980  
#192 rb\_yield\_1 (val=94095988924840) at vm\_eval.c:986  
#193 rb\_yield (val=) at vm\_eval.c:996  
#194 0x000055946cf2113d in rb\_ary\_each (ary=94095988920960) at array.c:1820  
#195 0x000055946cefb61f in vm\_call\_cfunc\_with\_frame (ci=0x55946e421000, cc=, calling=, reg\_cfp=0x7fc7bdc4ead0, ec=0x55946da519c8) at vm\_inshelper.c:1928  
#196 vm\_call\_cfunc (ec=0x55946da519c8, reg\_cfp=0x7fc7bdc4ead0, calling=, ci=0x55946e421000, cc=) at vm\_inshelper.c:1944  
#197 0x000055946cf03ea3 in vm\_call\_method (ec=0x55946da519c8, cfp=0x7fc7bdc4ead0, calling=, ci=, cc=) at vm\_inshelper.c:2417  
#198 0x000055946cf0cb05 in vm\_exec\_core (ec=ec@entry=0x55946da519c8, initial=initial@entry=0) at /tmp/ruby-build.20180216151216.13740/ruby-trunk/insns.def:716  
#199 0x000055946cf02f4c in vm\_exec (ec=0x55946da519c8) at vm.c:1804  
#200 0x000055946cf118d1 in rb\_iseq\_eval (iseq=iseq@entry=0x55946e35f2c0) at vm.c:2046  
#201 0x000055946cdd2164 in rb\_load\_internal0 (ec=ec@entry=0x55946da519c8, fname=fname@entry=94095992643280, wrap=) at load.c:611  
#202 0x000055946cdd2850 in rb\_load\_internal (wrap=0, fname=94095992643280) at load.c:642  
#203 rb\_f\_load (argc=, argv=) at load.c:710  
#204 0x000055946cefb61f in vm\_call\_cfunc\_with\_frame (ci=0x55946e24bb20, cc=, calling=, reg\_cfp=0x7fc7bdc4ec58, ec=0x55946da519c8) at vm\_inshelper.c:1928  
#205 vm\_call\_cfunc (ec=0x55946da519c8, reg\_cfp=0x7fc7bdc4ec58, calling=, ci=0x55946e24bb20, cc=) at vm\_inshelper.c:1944  
#206 0x000055946cf03ea3 in vm\_call\_method (ec=0x55946da519c8, cfp=0x7fc7bdc4ec58, calling=, ci=, cc=) at vm\_inshelper.c:2417  
#207 0x000055946cf0b5c2 in vm\_exec\_core (ec=ec@entry=0x55946da519c8, initial=initial@entry=0) at /tmp/ruby-build.20180216151216.13740/ruby-trunk/insns.def:779  
#208 0x000055946cf02f4c in vm\_exec (ec=0x55946da519c8) at vm.c:1804  
#209 0x000055946cf118d1 in rb\_iseq\_eval (iseq=iseq@entry=0x55946e3a7390) at vm.c:2046  
#210 0x000055946cdd2164 in rb\_load\_internal0 (ec=ec@entry=0x55946da519c8, fname=fname@entry=94095993616120, wrap=) at load.c:611

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#211 0x000055946cdd2850 in rb_load_internal (wrap=0, fname=94095993616120) at load.c:642
#212 rb_f_load (argc=, argv=) at load.c:710
#213 0x000055946cefb61f in vm_call_cfunc_with_frame (ci=0x55946e6a00d0, cc=, calling=, reg_cfp=0x7fc7bdc4ecc8, ec=0x55946da519c8) at
vm_insnhelper.c:1928
#214 vm_call_cfunc (ec=0x55946da519c8, reg_cfp=0x7fc7bdc4ecc8, calling=, ci=0x55946e6a00d0, cc=) at vm_insnhelper.c:1944
#215 0x000055946cf03ea3 in vm_call_method (ec=0x55946da519c8, cfp=0x7fc7bdc4ecc8, calling=, ci=, cc=) at vm_insnhelper.c:2417
#216 0x000055946cf0b5c2 in vm_exec_core (ec=ec@entry=0x55946da519c8, initial=initial@entry=0) at
/tmp/ruby-build.20180216151216.13740/ruby-trunk/insns.def:779
#217 0x000055946cf02f4c in vm_exec (ec=0x55946da519c8) at vm.c:1804
#218 0x000055946cf118d1 in rb_iseq_eval (iseq=iseq@entry=0x55946e470100) at vm.c:2046
#219 0x000055946cdd2164 in rb_load_internal0 (ec=ec@entry=0x55946da519c8, fname=fname@entry=94095993672200, wrap=) at load.c:611
#220 0x000055946cdd2850 in rb_load_internal (wrap=0, fname=94095993672200) at load.c:642
#221 rb_f_load (argc=, argv=) at load.c:710
#222 0x000055946cefb61f in vm_call_cfunc_with_frame (ci=0x55946e3306a0, cc=, calling=, reg_cfp=0x7fc7bdc4efa0, ec=0x55946da519c8) at
vm_insnhelper.c:1928
#223 vm_call_cfunc (ec=0x55946da519c8, reg_cfp=0x7fc7bdc4efa0, calling=, ci=0x55946e3306a0, cc=) at vm_insnhelper.c:1944
#224 0x000055946cf03ea3 in vm_call_method (ec=0x55946da519c8, cfp=0x7fc7bdc4efa0, calling=, ci=, cc=) at vm_insnhelper.c:2417
#225 0x000055946cf0b5c2 in vm_exec_core (ec=ec@entry=0x55946da519c8, initial=initial@entry=0) at
/tmp/ruby-build.20180216151216.13740/ruby-trunk/insns.def:779
#226 0x000055946cf02f4c in vm_exec (ec=0x55946da519c8) at vm.c:1804
#227 0x000055946cf119d5 in rb_iseq_eval_main (iseq=iseq@entry=0x55946e4bbba0) at vm.c:2057
#228 0x000055946cd83d54 in ruby_exec_internal (n=0x55946e4bbba0) at eval.c:247
#229 0x000055946cd87fdf in ruby_exec_node (n=0x55946e4bbba0) at eval.c:311
#230 ruby_run_node (n=) at eval.c:303
#231 0x000055946cd831bf in main (argc=22, argv=0x7ffd6f6d0148) at ./main.c:42
```

## History

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### #1 - 06/26/2008 02:35 PM - Anonymous

=begin  
I'd really like to hear from the core team about this issue as well. We have thousands of ruby1.8.6p114 installs that we cannot update to the official releases since they all segfault. For now we are using the <http://redmine.ruby-lang.org/attachments/download/11> patch against p114 and it seems to work fine for all intents and purposes. But it would really re-assure us if the ruby-core could respond and bless one of these patches or tell us what is wrong with them if there are issues.

Thanks  
-Ezra Zygmontowicz  
=end

### #2 - 06/28/2008 09:27 PM - igal (Igal Koshevoy)

- File *wrapper.sh* added  
- File *logs.tar.gz* added

=begin  
Urabe Shyouhei wrote:

Sorry for a late reply but I think I've fixed this issue. Can someone please try the latest ruby\_1\_8\_6 branch? I'm delighted to hear from you!

I've checked out the latest source code and ran the test suites of RubySpec, Rails and RSpec on it. The segfaults are gone and I'm able to run Rails applications again. However, many tests are failing in a way that indicates there are either bugs or changes in the API which cause p238 to behave differently than p111.

I've updated the RedMine ticket [<http://redmine.ruby-lang.org/issues/show/199>] and uploaded the following files:

1. *wrapper.sh* -- Sample commands I'm running to build Ruby and execute the test suites
2. *logs.tar.gz* -- The test suite logs for the various programs

In the logs, the "p111.log" files were created with Ubuntu 8.04's patched Ruby 1.8.6p111, while the "17630.log" files were created with SVN r17630. The best way to work with these log files is to use a modern diff program like "gvimdiff" or "meld" which can detect intra-line changes (a few characters changed within a line), and visually compare them side-by-side. Note that a number of tests fail on both, this is unfortunately normal. What's important is that the same tests pass and fail on both versions. I'll try to make sense of the changes and errors after I get some sleep.

Because the latest SVN version seems to introduce API changes, trying to fix it may be time consuming and stressful.

I urge you to consider reviewing the submitted unofficial patches and make a new release based on a well-known stable version of the code, such as p111 or p114.

Thank you!

-igal

=end

**#3 - 07/03/2008 03:31 AM - igal (Igal Koshevoy)**

- File logs2.tar.gz added

=begin

I've re-run the test suites, along with some additional ones, against Ruby 1.8.6 SVN 17631 and the results seem promising.

The RubySpec team's been working hard to revise their specs and eliminated the false positives I reported last time. Many thanks to Federico Builes, Vladimir Sizikov, Arthur Schreiber, Tanaka Akira, and others for the timely effort.

Here are the test suites and their results:

RubySpec [Wed Jul 2 11:27:11 2008 -0500]

- Module#remove\_method fails
- String#% failures
- Iconv has many, many failures

Rails 1.2.6

- Fine!

Rails 2.0.2

- Fine!

Rails 2.1.0

- Fine!

Rails tip

- Hundreds of tests seem to be skipped, haven't figured out why.

RSpec 1.1.4

- Fine. Although it fails the 'identical HTML' spec, that spec is flaky and shouldn't count.

-igal

=end

**#4 - 07/09/2008 02:06 PM - nobu (Nobuyoshi Nakada)**

- Status changed from Open to Closed

- % Done changed from 0 to 100

=begin

Merged to 1.8.6 branch in the repository, at r17630.

=end

**Files**

1.8.6p230_smartleaf_fix.patch	2.9 KB	06/25/2008	Anonymous
1.8.6p111_sedov_and_lai_backport.patch	11.7 KB	06/25/2008	Anonymous
wrapper.sh	1.63 KB	06/28/2008	igal (Igal Koshevoy)
logs.tar.gz	19 KB	06/28/2008	igal (Igal Koshevoy)
logs2.tar.gz	39.1 KB	07/03/2008	igal (Igal Koshevoy)