

## Ruby 1.8 - Bug #212

### Issues with Readline in Mac OS X

07/01/2008 09:09 PM - febuiles (Federico Builes)

<b>Status:</b>	Closed
<b>Priority:</b>	Normal
<b>Assignee:</b>	
<b>Target version:</b>	
<b>ruby -v:</b>	
<b>Description</b>	
=begin There are currently some issue with the Readline wrappers for Editline in Mac OS 10.5, e.g.:	
<pre>require 'readline' puts Readline::VERSION Readline::HISTORY.push("1", "2", "3") Readline::HISTORY.each {  i  puts i } # =&gt; "EditLine wrapper" # =&gt; 2 # =&gt; 3</pre>	
Any idea if this is an issue with the wrapper or if it's a bug with the underlying library? Compiling ruby with GNU Readline works fine.	
=end	

#### Associated revisions

##### 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 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 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=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_cfnc_with_frame (ci=0x7ffd6f6c9a20, cc=0x7ffd6f6c9ba0, argv=0x7ffd6f6c9ba0, calling=0x7ffd6f6c9a30,  
ec=0x55946da519c8) at vm_eval.c:87  
#28 vm_call0_cfnc (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=, 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 0x000055946cef6b1f 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 0x000055946cef6b1f 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 0x000055946cef6b1f 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 0x000055946cef6b1f 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=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=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 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 0x000055946cfb61f 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 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 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

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

## 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 0x000055946cde94287 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=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 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=0x55946f15cb0, 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 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 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=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=fname@entry=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=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 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 0x000055946cfb61f in vm\_call\_cfunc\_with\_frame (ci=0x55946e7c96e0, cc=, calling=, reg\_cfp=0x7fc7bdc4ea28, ec=0x55946da519c8) at



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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 0x000055946cf0b5c2 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 0x000055946cf0b5c2 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 0x000055946cf0b5c2 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 0x000055946cf0b5c2 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 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

```

#### 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 III_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=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, arg=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, arg=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 0x000055946cef61f 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=, arg=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=, arg=argc@entry=1, argv=argv@entry=0x7ffd6f6ca108) at vm\_eval.c:1572  
#44 0x000055946cf04b12 in rb\_mod\_module\_exec (arg=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, arg=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, arg=3057, mid=3057, recv=94096135960920) at vm\_eval.c:595  
#52 rb\_funcallv (recv=recv@entry=94096135960920, mid=mid@entry=3057, arg=argc@entry=0, argv=argv@entry=0x7fc7bdb4fc98) at vm\_eval.c:825  
#53 0x000055946cd89673 in rb\_obj\_call\_init (obj=obj@entry=94096135960920, arg=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 0x000055946cef61f 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, arg=, 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 0x000055946cef6b1f 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 0x000055946cef6b1f 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=0x7ffd6f6cce00, 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 0x000055946cef6b1f 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 0x000055946cef6b1f 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 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  
#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 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

---

### #1 - 07/02/2008 09:13 AM - rogerdpack (Roger Pack)

```
=begin
May have something to do with the terminal you're using
=end
```

### #2 - 07/02/2008 10:11 AM - febuiles (Federico Builes)

```
=begin
Roger: This is part of the Rubyspecs test suite but that's why we push the items into it, do you think there's anything else we should check?
=end
```

### #3 - 07/02/2008 03:33 PM - luislavena (Luis Lavena)

```
=begin
As Federico suggested, has nothing to do with the terminal emulation or console being used, but with the shared object being involved.
```

If you do a full GNU Readline linkage instead, the error goes away. I think is related to the macros it tries during the build process of the readline extension and the `have_readline_header("editline/readline.h")` and `have_library("edit", "readline")`.

```
=end
```

### #4 - 07/13/2008 09:09 PM - kouji (Kouji Takao)

- *File no212.patch added*

```
=begin
= summary
```

This problem was investigated.

As for GNU Readline's `history_base` and `libedit`'s it, the treatment is different.  
GNU Readline's `history_base` = `libedit`'s `history_base` - 1.

```
= example
```

```
== GNU Readline
```

```
HIST_ENTRY *entry;
```

```
add_history("1");
add_history("2");
add_history("3");
```

```
entry = history_get(history_base);
printf("%s\n", entry->line); /* => 1 */
```

```
entry = history_get(history_base + 1);
printf("%s\n", entry->line); /* => 2 */
```

```
entry = history_get(history_base + 2);
printf("%s\n", entry->line); /* => 2 */
```

```
== Editline Library
```

```
HIST_ENTRY *entry;
```

```
add_history("1");
add_history("2");
add_history("3");
```

```
entry = history_get(history_base - 1);
printf("%s\n", entry->line); /* => 1 */
```

```
entry = history_get(history_base);
printf("%s\n", entry->line); /* => 2 */
```

```
entry = history_get(history_base + 1);
printf("%s\n", entry->line); /* => 3 */
```

```
= try
```

I created the patch for this problem.  
Try the patch.



- if (history(h, &ev, H\_NEXT\_EVENT, num + 1))

```
libedit
GNU Readline
```

```
history_base: 1
added 1, 2, 3 to history
history_base: 1
history_length: 3
history_get(history_base): 1
history_get(0): NULL
history_get(1): 1
history_get(2): 2
history_get(3): 3
```

```
libedit
Mac OSX libedit
```

```
Mac OSX
10.4
```

---

```
=end
```

#### #6 - 07/18/2008 11:39 AM - kouji (Kouji Takao)

```
=begin
```

On 2008/07/17, at 5:38, Keita Yamaguchi wrote:

2008/7/17 Takao Kouji [kouji@takao7.net](mailto:kouji@takao7.net):

- GNU Readline 1(history\_base)
- libedit 0 remove\_history

```
Ubuntu 8.04 libedit
GNU ReadLine
(snip)
libedit
Mac OSX libedit
```

```
libedit
```

```
libedit
Readline VERSION
offset
# libedit
```

```
=end
```

#### #7 - 07/18/2008 11:39 AM - kouji (Kouji Takao)

```
=begin
```

On 2008/07/17, at 9:21, M.Suzuki wrote:

```
Mac OSX
10.4
```



```
Mac OS X 10.4 (history_base)

```

```
msuzuki$ uname -a
Darwin PowerBookG4.local 8.11.0 Darwin Kernel Version 8.11.0: Wed Oct
10 18:26:00 PDT 2007; root:xnu-792.24.17~1/RELEASE_PPC Power Macintosh
powerpc
msuzuki$ cc -o libedittest libedittest.c -ledit
msuzuki$ ./libedittest
history_base: 1 added 1, 2, 3 to history history_base: 1
history_length: 3
history_get(history_base): 1
history_get(0): NULL
history_get(1): NULL
history_get(2): NULL
history_get(3): NULL

```

```
history_get(0) (3) NULL
Mac OS X 10.4 Readline

```

=end

#8 - 07/18/2008 11:41 AM - Anonymous

```
=begin
M.Suzuki

```

```
Mac OS X 10.4

```

```
Mac OS X 10.4 (history_base)

```

```
msuzuki$ uname -a
Darwin PowerBookG4.local 8.11.0 Darwin Kernel Version 8.11.0: Wed Oct
10 18:26:00 PDT 2007; root:xnu-792.24.17~1/RELEASE_PPC Power Macintosh
powerpc
msuzuki$ cc -o libedittest libedittest.c -ledit
msuzuki$ ./libedittest
history_base: 1 added 1, 2, 3 to history history_base: 1
history_length: 3
history_get(history_base): 1
history_get(0): NULL
history_get(1): NULL
history_get(2): NULL
history_get(3): NULL

```

```
MacPorts readline

```

```
msuzuki$ cc -o libedittest libedittest.c -L/opt/local/lib -lreadline
msuzuki$ ./libedittest
history_base: 1
added 1, 2, 3 to history
history_base: 1
history_length: 3
history_get(history_base): 1
history_get(0): NULL
history_get(1): 1
history_get(2): 2
history_get(3): 3

```

```
M.Suzuki :: Idea -> Coffe -> (Code, Bug)

```

=end

#9 - 07/18/2008 11:42 AM - kouji (Kouji Takao)

```
=begin

```



```
printf("history_base: %d\n", history_base);

add_history("1");
add_history("2");
add_history("3");

printf("added 1, 2, 3 to history\n");
printf("history_base: %d\n", history_base);
printf("history_length: %d\n", history_length);

entry = history_get(history_base);
printf("history_get(history_base): %s\n", entry->line);

for (i = 0; i <= history_length; i++) {
    entry = history_get(i);
    printf("history_get(%d): %s\n", i, entry ? entry->line : "NULL");
}
```

```
return 0;
}
```

```
GNU Readline Mac OSX libedit
libedit 20080712-2.11
----
---- no212_on-macosx.gnu_readline ----
history_base: 1
added 1, 2, 3 to history
history_base: 1
history_length: 3
history_get(history_base): 1
history_get(0): NULL
history_get(1): 1
history_get(2): 2
history_get(3): 3
---- no212_on-macosx.editline ----
history_base: 1
added 1, 2, 3 to history
history_base: 1
history_length: 3
history_get(history_base): 2
history_get(0): 1
history_get(1): 2
history_get(2): 3
history_get(3): NULL
---- no212_on-macosx.editline_20080712-2.11 ----
history_base: 1
added 1, 2, 3 to history
history_base: 1
history_length: 3
history_get(history_base): 2
history_get(0): 1
history_get(1): 2
history_get(2): 3
history_get(3): NULL
----
```

```
libedit index 0
(GNU Readline) history_base
```

```
Mac OSX 10.5.4(10.5.3)

```

```
$ ~/local/bin/ruby19trunk -rreadline -ve 'puts Readline::VERSION; Readline::HISTORY.push("1", "2", "3"); Readline::HISTORY.each { |s| puts s }; p
Readline::HISTORY[1]; Readline::HISTORY[1] = "A" ; p Readline::HISTORY[1]; Readline::HISTORY.delete_at(0); p Readline::HISTORY[0]; p
Readline::HISTORY.length; p Readline::HISTORY.pop; p Readline::HISTORY.pop; p Readline::HISTORY.pop; '
ruby 1.9.0 (2008-07-16 revision 18071) [i686-darwin9.4.0]
EditLine wrapper
1
2
3
"2"
"A"
```

"A"  
2  
"3"  
"A"  
nil

----- □□□□ -----

Index: ext/readline/readline.c

--- ext/readline/readline.c (revision 18084)

+++ ext/readline/readline.c (working copy)

@@ -43,6 +43,8 @@

# define rl\_completion\_matches completion\_matches

#endif

+static int history\_offset = 0;

+

static char \*\*readline\_attempted\_completion\_function(const char \*text,  
int start, int end);

@@ -516,7 +518,7 @@

if (i < 0) {

i += history\_length;

}

- entry = history\_get(history\_base + i);
- entry = history\_get(i + history\_offset); if (entry == NULL) { rb\_raise(rb\_eIndexError, "invalid index"); } @@ -536,7 +538,7 @@ if (i < 0) { i += history\_length; }
- entry = replace\_history\_entry(i, RSTRING\_PTR(str), NULL);

- entry = replace\_history\_entry(i + history\_offset, RSTRING\_PTR(str), NULL);  
if (entry == NULL) {  
rb\_raise(rb\_eIndexError, "invalid index");  
}

@@ -578,7 +580,7 @@  
VALUE val;

rb\_secure(4);

- entry = remove\_history(index);
- entry = remove\_history(index + history\_offset);  
if (entry) {  
val = rb\_tainted\_str\_new2(entry->line);  
free(entry->line);  
@@ -624,7 +626,7 @@

rb\_secure(4);  
for (i = 0; i < history\_length; i++) {

- [REDACTED]
- [REDACTED]  
if (entry == NULL)  
break;

rb\_yield(rb\_tainted\_str\_new2(entry->line));  
@@ -795,6 +797,10 @@  
rb\_define\_const(mReadline, "USERNAME\_COMPLETION\_PROC", ucomp);  
#if defined HAVE\_RL\_LIBRARY\_VERSION  
rb\_define\_const(mReadline, "VERSION", rb\_str\_new2(rl\_library\_version));

- if (strcmp(rl\_library\_version, "EditLine wrapper"),

- [REDACTED]

• history\_offset = history\_base;

- }  
#else  
rb\_define\_const(mReadline, "VERSION", rb\_str\_new2("2.0 or prior version"));  
#endif

=end

#10 - 07/19/2008 09:29 AM - kouji (Kouji Takao)

=begin  
~~~~~

On 2008/07/17, at 9:16, Takao Kouji wrote:

On 2008/07/17, at 5:38, Keita Yamaguchi wrote:

2008/7/17 Takao Kouji [kouji@takao7.net](mailto:kouji@takao7.net):

~~~~~

- GNU Readline の 1 (history\_base の)
- libedit の remove\_history の

~~~~~  
 Ubuntu 8.04 の libedit の  
 GNU ReadLine の  
 (snip)  
 libedit の  
 Mac OSX の libedit の  
 の

~~~~~  
 libedit の

~~~~~  
 の

~~~~~  
 Readline::HISTORY の  
 Readline::HISTORY の  
 の

~~~~~  
 GNU Readline の Mac OSX 10.5 の libedit の

-----  
 GNU Readline  
 ~/work/ruby/ruby\_1\_9 \$ ./ruby19trunk -lextr/readline/gnu-readline test/readline/test\_readline\_history.rb  
 Loaded suite test/readline/test\_readline\_history  
 Started  
 ..  
 Finished in 0.004555 seconds.

17 tests, 159 assertions, 0 failures, 0 errors

libedit  
 ~/work/ruby/ruby\_1\_9 \$ ./ruby19trunk -lextr/readline/editline test/readline/test\_readline\_history.rb  
 Loaded suite test/readline/test\_readline\_history  
 Started  
 ..F..FEF..EEFFF..  
 Finished in 0.017272 seconds.

1) Failure:  
 test\_each(Readline::TestHistory)  
 [test/readline/test\_readline\_history.rb:144:in block in test\_each]  
 test/readline/test\_readline\_history.rb:142:ineach'  
 test/readline/test\_readline\_history.rb:142:in `test\_each']:  
 <"1:a"> expected but was  
 <"2:b">.

2) Failure:  
 test\_get(Readline::TestHistory)  
 [test/readline/test\_readline\_history.rb:22:in block in test\_get]  
 test/readline/test\_readline\_history.rb:21:ineach'  
 test/readline/test\_readline\_history.rb:21:in each\_with\_index'  
 test/readline/test\_readline\_history.rb:21:intest\_get']:  
 <"1:a"> expected but was  
 <"2:b">.

3) Error:  
test\_get\_negative(Readline::TestHistory):  
IndexError: invalid index  
test/readline/test\_readline\_history.rb:29:in []'  
test/readline/test\_readline\_history.rb:29:inblock in test\_getnegative'  
test/readline/test\_readline\_history.rb:28:in each'  
test/readline/test\_readline\_history.rb:28:in test\_get\_negative'

4) Failure:  
test\_get\_out\_of\_range(Readline::TestHistory)  
[test/readline/test\_readline\_history.rb:37:in `block in test\_getout\_of\_range'  
test/readline/test\_readline\_history.rb:36:in each'  
test/readline/test\_readline\_history.rb:36:in test\_get\_out\_of\_range']:  
i=<-6>.  
exception expected but none was thrown.

5) Error:  
test\_push(Readline::TestHistory):  
IndexError: invalid index  
test/readline/test\_readline\_history.rb:85:in []'  
test/readline/test\_readline\_history.rb:85:inblock in test\_push'  
test/readline/test\_readline\_history.rb:83:in times'  
test/readline/test\_readline\_history.rb:83:in test\_push'

6) Error:  
test\_push\_operator(Readline::TestHistory):  
IndexError: invalid index  
test/readline/test\_readline\_history.rb:93:in []'  
test/readline/test\_readline\_history.rb:93:inblock in test\_pushoperator'  
test/readline/test\_readline\_history.rb:91:in times'  
test/readline/test\_readline\_history.rb:91:in test\_push\_operator'

7) Failure:  
test\_push\_plural(Readline::TestHistory)  
[test/readline/test\_readline\_history.rb:101:in `block in test\_pushplural'  
test/readline/test\_readline\_history.rb:100:in each'  
test/readline/test\_readline\_history.rb:100:in test\_push\_plural']:  
<"0"> expected but was  
<"1">.

8) Failure:  
test\_set(Readline::TestHistory)  
[test/readline/test\_readline\_history.rb:56:in block in test\_set'  
test/readline/test\_readline\_history.rb:53:in times'  
test/readline/test\_readline\_history.rb:53:in `test\_set']:  
<"set: 0"> expected but was  
<"2:b">.

9) Failure:  
test\_set\_out\_of\_range(Readline::TestHistory)  
[test/readline/test\_readline\_history.rb:68:in `block in test\_setout\_of\_range'  
test/readline/test\_readline\_history.rb:67:in each'  
test/readline/test\_readline\_history.rb:67:in test\_set\_out\_of\_range']:  
index=<-6>.  
exception expected but none was thrown.

17 tests, 98 assertions, 6 failures, 3 errors  
---- □□□□ ----

□□□□□□□□□□□□□□□□ext/readline/readline.c□□□□□□□□

□□□□□□□□  
---- □□□□ ----

Index: test/readline/test\_readline\_history.rb

=====  
--- test/readline/test\_readline\_history.rb (revision 0)  
+++ test/readline/test\_readline\_history.rb (revision 0)  
@@ -0,0 +1,238 @@  
+begin

- require "readline" +rescue LoadError +else
- require "test/unit" +end + +class Readline::TestHistory < Test::Unit::TestCase
- include Readline +
- def setup
- clear\_history

- end
- def test\_to\_s
- assert\_equal("HISTORY", HISTORY.to\_s)
- end +
- def test\_get
- lines = push\_history(5)
- lines.each\_with\_index do |s, i|
- assert\_equal(s, HISTORY[i])
- end
- end +
- def test\_get\_\_negative
- lines = push\_history(5)
- (1..5).each do |i|
- assert\_equal(lines[-i], HISTORY[-i])
- end
- end +
- def test\_get\_\_out\_of\_range
- lines = push\_history(5)
- invalid\_indexes = [5, 6, 100, -6, -7, -100]
- invalid\_indexes.each do |i|
- assert\_raise(IndexError, "i=<#{i}>") do
- HISTORY[i]
- end
- end
- invalid\_indexes = [100\_000\_000\_000\_000\_000\_000,
- -100\_000\_000\_000\_000\_000\_000]
- invalid\_indexes.each do |i|
- assert\_raise(RangeError, "i=<#{i}>") do
- HISTORY[i]
- end
- end
- end +
- def test\_set
- lines = push\_history(5)
- 5.times do |i|
- expected = "set: #{i}"
- HISTORY[i] = expected
- assert\_equal(expected, HISTORY[i])
- end
- end +
- def test\_set\_\_out\_of\_range
- assert\_raise(IndexError, "index=") do
- HISTORY[0] = "set: 0"
- end
- lines = push\_history(5)
- invalid\_indexes = [5, 6, 100, -6, -7, -100]
- invalid\_indexes.each do |i|
- assert\_raise(IndexError, "index=<#{i}>") do
- HISTORY[i] = "set: #{i}"
- end
- end
- invalid\_indexes = [100\_000\_000\_000\_000\_000\_000,
- -100\_000\_000\_000\_000\_000\_000]
- invalid\_indexes.each do |i|
- assert\_raise(RangeError, "index=<#{i}>") do
- HISTORY[i] = "set: #{i}"
- end
- end
- end +
- def test\_push
- 5.times do |i|
- assert\_equal(HISTORY, HISTORY.push(i.to\_s))
- assert\_equal(i.to\_s, HISTORY[i])
- end
- assert\_equal(5, HISTORY.length)
- end +
- def test\_push\_\_operator
- 5.times do |i|

- `assert_equal(HISTORY, HISTORY << i.to_s)`
- `assert_equal(i.to_s, HISTORY[i])`
- `end`
- `assert_equal(5, HISTORY.length)`
- `end +`
- `def test_push__plural`
- `assert_equal(HISTORY, HISTORY.push("0", "1", "2", "3", "4"))`
- `(0..4).each do |i|`
- `assert_equal(i.to_s, HISTORY[i])`
- `end`
- `assert_equal(5, HISTORY.length) +`
- `assert_equal(HISTORY, HISTORY.push("5", "6", "7", "8", "9"))`
- `(5..9).each do |i|`
- `assert_equal(i.to_s, HISTORY[i])`
- `end`
- `assert_equal(10, HISTORY.length)`
- `end +`
- `def test_pop`
- `assert_equal(nil, HISTORY.pop)`

- `lines = push_history(5)`
- `(1..5).each do |i|`
- `assert_equal(lines[-i], HISTORY.pop)`
- `assert_equal(lines.length - i, HISTORY.length)`
- `end`

- `assert_equal(nil, HISTORY.pop)`
- `end +`
- `def test_shift`
- `assert_equal(nil, HISTORY.shift)`

- `lines = push_history(5)`
- `(0..4).each do |i|`
- `assert_equal(lines[i], HISTORY.shift)`
- `assert_equal(lines.length - (i + 1), HISTORY.length)`
- `end`

- `assert_equal(nil, HISTORY.shift)`
- `end +`
- `def test_each`
- `HISTORY.each do |s|`
- `assert(false) # not reachable`
- `end`
- `lines = push_history(5)`
- `i = 0`
- `HISTORY.each do |s|`
- `assert_equal(HISTORY[i], s)`
- `assert_equal(lines[i], s)`
- `i += 1`
- `end`
- `end +`
- `def test_each__enumerator`
- `e = HISTORY.each`
- `assert_instance_of(Enumerable::Enumerator, e)`
- `end +`
- `def test_length`
- `assert_equal(0, HISTORY.length)`
- `push_history(1)`
- `assert_equal(1, HISTORY.length)`
- `push_history(4)`
- `assert_equal(5, HISTORY.length)`
- `clear_history`
- `assert_equal(0, HISTORY.length)`
- `end +`
- `def test_empty_p`
- `2.times do`
- `assert(HISTORY.empty?)`
- `HISTORY.push("s")`
- `assert_equal(false, HISTORY.empty?)`
- `HISTORY.pop`
- `assert(HISTORY.empty?)`



- end
- end +
- def test\_delete\_at
- lines = push\_history(5)
- (0..4).each do |i|
- assert\_equal(lines[i], HISTORY.delete\_at(0))
- end
- assert(HISTORY.empty?) +
- lines = push\_history(5)
- (1..5).each do |i|
- assert\_equal(lines[lines.length - i], HISTORY.delete\_at(-1))
- end
- assert(HISTORY.empty?) +
- lines = push\_history(5)
- assert\_equal(lines[0], HISTORY.delete\_at(0))
- assert\_equal(lines[4], HISTORY.delete\_at(3))
- assert\_equal(lines[1], HISTORY.delete\_at(0))
- assert\_equal(lines[3], HISTORY.delete\_at(1))
- assert\_equal(lines[2], HISTORY.delete\_at(0))
- assert(HISTORY.empty?)
- end +
- def test\_delete\_at\_\_out\_of\_range
- assert\_raise(IndexError, "index=") do
- HISTORY.delete\_at(0)
- end

- lines = push\_history(5)
- invalid\_indexes = [5, 6, 100, -6, -7, -100]
- invalid\_indexes.each do |i|
- assert\_raise(IndexError, "index=<#{i}>") do
- HISTORY.delete\_at(i)
- end
- end

- invalid\_indexes = [100\_000\_000\_000\_000\_000\_000,
- -100\_000\_000\_000\_000\_000\_000]
- invalid\_indexes.each do |i|
- assert\_raise(RangeError, "index=<#{i}>") do
- HISTORY.delete\_at(i)
- end
- end +
- private +
- def push\_history(num)
- lines = []
- num.times do |i|
- s = "a"
- i.times do
- s = s.succ
- end
- lines.push("#{i + 1}:#{s}")
- end
- HISTORY.push(\*lines)
- return lines
- end +
- def clear\_history
- while HISTORY.pop
- end
- assert(HISTORY.empty?)
- end +end if defined?(::Readline) && defined?(::Readline::HISTORY)

=end

**#11 - 07/19/2008 11:10 PM - kouji (Kouji Takao)**

=begin  
 □□□□□□

On 2008/07/19, at 9:24, Takao Kouji wrote:

```

  □□□□□□Readline::HISTORY□□□□□□□□□□□□□□□□
  Readline::HISTORY□□□□□□□□□□□□□□□□□□□□

```

```
#####
# #####
```

```
#####
```

- GNU Readline ##### (#####)
- ##### Readline##### EditLine(libedit) #####
  - libedit ##### (2.9#####) ##### history\_get ##### 0 ##### history\_base ##### Readline::HISTORY #####
  - history\_get ##### -1 ##### 0 ##### history ##### GNU Readline [] NULL ##### Readline::HISTORY[-100] [] IndexError #####
  - replace\_history\_entry ##### -1 ##### 0 ##### history ##### GNU Readline ##### Readline::HISTORY[-100] = "abc" ##### o ##### history #####
- #####
  - Init\_readline [] [] libedit #####
  - libedit ##### history ##### history\_base [] 0 #####
  - ##### hist\_get (Readline::HISTORY[] -> string | nil) #####
  - [] hist\_get [] hist\_set (Readline::HISTORY[index] = string) [] Ruby [] index #####

```
#####
#####
##### > #####
```

```
##### Mac OSX[]libedit[]
Mac OSX [] MacPorts [] GNU Readline 5.2 []
#####
[] [ruby-dev:35553] ##### Ubuntu 8.04 [] libedit []
Mac OSX 10.4 [] libedit #####
```

```
#####
```

1. ruby [] trunk #####
2. ##### [ruby-dev:35588] ##### \$ cd /path/to/ruby/trunk \$ patch -p0 < /path/to/patch
3. configure [] --with-libedit ##### \$ ./configure --with-libedit
4. make
5. ##### \$ ./ruby -I.ext/ -rreadline \ test/readline/test\_readline\_history.rb

```
##### OK []
#####
```

```
#####
---- [] ----
```

```
Index: readline.c
=====
--- readline.c (revision 18084)
+++ readline.c (working copy)
@@ -29,6 +29,8 @@
```

```
static VALUE mReadline;

+#define EDIT_LINE_LIBRARY_VERSION "EditLine wrapper"
+
+#define COMPLETION_PROC "completion_proc"
+#define COMPLETION_CASE_FOLD "completion_case_fold"
static ID completion_proc, completion_case_fold;
@@ -43,6 +45,8 @@
# define rl_completion_matches completion_matches
#endif

+static int (*history_get_offset_func)(int);
+
static char **readline_attempted_completion_function(const char *text,
int start, int end);

@@ -505,10 +509,22 @@
return rb_str_new2("HISTORY");
}

+static int
+history_get_offset_history_base(int offset)
+{
  • return history_base + offset; +} +
  • return offset; +} + static VALUE hist_get(VALUE self, VALUE index) {
```

- HIST\_ENTRY \*entry;

- HIST\_ENTRY \*entry = NULL;
 



```
int i;

rb_secure(4);
@@ -516,7 +532,9 @@
if (i < 0) {
i += history_length;
}
```
- entry = history\_get(history\_base + i);
- if (i >= 0) {
- entry = history\_get(history\_get\_offset\_func(i));
- }
 

```
if (entry == NULL) {
rb_raise(rb_eIndexError, "invalid index");
}
@@ -527,7 +545,7 @@
hist_set(VALUE self, VALUE index, VALUE str)
{
#ifdef HAVE_REPLACE_HISTORY_ENTRY
```
- HIST\_ENTRY \*entry;
- HIST\_ENTRY \*entry = NULL;
 



```
int i;

rb_secure(4);
@@ -536,7 +554,9 @@
if (i < 0) {
i += history_length;
}
```
- entry = replace\_history\_entry(i, RSTRING\_PTR(str), NULL);
- if (i >= 0) {
- entry = replace\_history\_entry(i, RSTRING\_PTR(str), NULL);
- }
 

```
if (entry == NULL) {
rb_raise(rb_eIndexError, "invalid index");
}
@@ -581,7 +601,7 @@
entry = remove_history(index);
if (entry) {
val = rb_tainted_str_new2(entry->line);
```
- 
- 

```
free(entry);
return val;

}
@@ -624,7 +644,7 @@

rb_secure(4);
for (i = 0; i < history_length; i++) {
```
- 
- 

```
if (entry == NULL)
break;
```
- rb\_yield(rb\_tainted\_str\_new2(entry->line));
 

```
@@ -793,8 +813,17 @@
rb_define_singleton_method(ucomp, "call",
username_completion_proc_call, 1);
```



000000000000000000000000000000000000

1. GNU Readline 5.2

keita% ./ruby -I .ext/i686-linux/ -rreadline
test/readline/test\_readline\_history.rb
Loaded suite test/readline/test\_readline\_history
Started
.....
Finished in 0.047366958 seconds.

17 tests, 159 assertions, 0 failures, 0 errors

000Ubuntu 8.04 0 GNU Readline 5.2 000000000000

1. libedit(2.9.cvs.20050518)

Loaded suite test/readline/test\_readline\_history
Started
EEEEEEEEEEEEEEEEEEEE
Finished in 0.001803326 seconds.

1) Error:
test\_delete\_at(Readline::TestHistory):
NotImplementedError: pop() function is unimplemented on this machine
test/readline/test\_readline\_history.rb:234:in pop'
test/readline/test\_readline\_history.rb:234:inclear\_history'
test/readline/test\_readline\_history.rb:12:in `setup'

0017000000000000000000000000000000000000

0000000000
setup 00 HISTORY.pop 000000000000 remove\_history 0000000000
remove\_history 0 Ubuntu 8.04 0 2.9.cvs.20050518 000000000000
libedit 0 remove\_history 0000000000 2005/07/14 00000000

000000 --enable-libedit 0000000000 extconf.h 00000000000000

keita% cat ext/readline/extconf.h
#ifndef EXTCONF\_H
#define EXTCONF\_H
#define HAVE\_EDITLINE\_READLINE\_H 1
#define HAVE\_RL\_COMPLETION\_MATCHES 1
#define HAVE\_RL\_DEPREP\_TERM\_FUNCTION 1
#define HAVE\_RL\_COMPLETION\_APPEND\_CHARACTER 1
#define HAVE\_RL\_BASIC\_WORD\_BREAK\_CHARACTERS 1
#define HAVE\_RL\_COMPLETER\_WORD\_BREAK\_CHARACTERS 1
#define HAVE\_RL\_COMPLETER\_QUOTE\_CHARACTERS 1
#define HAVE\_RL\_ATTEMPTED\_COMPLETION\_OVER 1
#define HAVE\_RL\_LIBRARY\_VERSION 1
#endif

000000 HAVE\_REMOVE\_HISTORY 0000000000
rb\_remove\_history 000000 rb\_notimplement 00000000
0000000000 setup 0000001-17000000000000

remove\_history 000000
2.9.cvs.20050518 00000000000000000000000000000000
000000 Ubuntu 8.04 00000000 libedit 000000000000
0000000000000000000000000000000000000000

000000
000000 Ubuntu 000000 libedit 0000000000
0000000000000000000000000000000000

0000
=end

#14 - 07/22/2008 12:05 PM - kouji (Kouji Takao)

=begin
00000000

On 2008/07/20, at 15:04, Keita Yamaguchi wrote:

Ubuntu 8.04

- GNU Readline 5.2
- libedit(2.9.cvs.20050518)

1. libedit(2.9.cvs.20050518)

Loaded suite test/readline/test\_readline\_history

Started

EEEEEEEEEEEEEEEEEEEE

Finished in 0.001803326 seconds.

1) Error:

```
test_delete_at(Readline::TestHistory):
NotImplementedError: pop() function is unimplemented on this machine
test/readline/test_readline_history.rb:234:in pop'
test/readline/test_readline_history.rb:234:in clear_history'
test/readline/test_readline_history.rb:12:in `setup'
```

```
setup HISTORY.pop remove_history
remove_history Ubuntu 8.04 2.9.cvs.20050518
libedit remove_history 2005/07/14
```

```
remove_history
Readline

```

- 1.
2. remove\_history clear\_history

```
clear_history
Readline::HISTORY.clear
#
```

```
Readline::HISTORY
NotImplementError
```

=end

#15 - 07/30/2008 03:20 PM - kouji (Kouji Takao)

=begin

On 2008/07/22, at 12:55, M.Suzuki wrote:

```
(snip)
(?)
```

```
msuzuki$ ./ruby -I.ext/powerpc-darwin8.11.0 -rreadline test/readline/test_readline_history.rb
Loaded suite test/readline/test_readline_history
Started
EEEEEEEEEEEEEEEEEEEE
Finished in 0.014429 seconds.
```

```
1) Error:
test_delete_at(Readline::TestHistory):
```

```
NotImplementedError: pop() function is unimplemented on this machine
test/readline/test_readline_history.rb:234:in pop'
test/readline/test_readline_history.rb:234:in clear_history'
test/readline/test_readline_history.rb:12:in `setup'
...
```

```
ext/readline/extconf.h
```

```
#ifndef EXTCONF_H
#define EXTCONF_H
#define HAVE_READLINE_READLINE_H 1
#define HAVE_RL_DEPREP_TERM_FUNCTION 1
#define HAVE_RL_COMPLETION_APPEND_CHARACTER 1
#define HAVE_RL_BASIC_WORD_BREAK_CHARACTERS 1
#define HAVE_RL_COMPLETER_WORD_BREAK_CHARACTERS 1
#define HAVE_RL_COMPLETER_QUOTE_CHARACTERS 1
#define HAVE_RL_LIBRARY_VERSION 1
#endif
```

```
Mac OSX 10.4
```

```
Readline
NotImplementedError
```

```
ML
Mac OSX 10.4
```

```
Mac OSX 10.4 ruby
Readline
$ ruby -v -rreadline -e 'Readline'
ruby 1.8.2 (2004-12-25) [universal-darwin8.0]
ruby: No such file to load -- readline (LoadError)
```

```
=end
```

**#16 - 07/30/2008 03:25 PM - kouji (Kouji Takao)**

```
=begin
```

On 2008/07/23, at 23:14, Takao Kouji wrote:

```
Readline
NotImplementedError
```

```
ML
```

```
revert
```

```
$SAFE = 4
SecurityError
Readline::HISTORY.clear
```

```
Mac OSX 10.4
```

```
Mac OSX 10.4
[ruby-dev:35557]
```

```
msuzuki$ uname -a
Darwin PowerBookG4.local 8.11.0 Darwin Kernel Version 8.11.0: Wed Oct
10 18:26:00 PDT 2007; root:xnu-792.24.17~1/RELEASE_PPC Power Macintosh
```

```

powerpc
msuzuki$ cc -o libedittest libedittest.c -ledit
msuzuki$ ./libedittest
history_base: 1 added 1, 2, 3 to history history_base: 1
history_length: 3
history_get(history_base): 1
history_get(0): NULL
history_get(1): NULL
history_get(2): NULL
history_get(3): NULL

```

```

Mac OSX 10.4
readline
10.4
HISTORY
NotImplementedError

```

```


```

```

-----

```

```

Index: ext/readline/readline.c

```

```

-----
--- ext/readline/readline.c (revision 18194)
+++ ext/readline/readline.c (working copy)
@@ -29,6 +29,8 @@

```

```

static VALUE mReadline;

```

```

#define EDIT_LINE_LIBRARY_VERSION "EditLine wrapper"
+
#define COMPLETION_PROC "completion_proc"
#define COMPLETION_CASE_FOLD "completion_case_fold"
static ID completion_proc, completion_case_fold;
@@ -43,6 +45,8 @@
# define rl_completion_matches completion_matches
#endif

```

```

+static int (*history_get_offset_func)(int);
+
static char **readline_attempted_completion_function(const char *text,
int start, int end);

```

```

@@ -505,10 +509,22 @@
return rb_str_new2("HISTORY");
}

```

```

+static int
+history_get_offset_history_base(int offset)
+{

```

- return history\_base + offset; +} + +static int +history\_get\_offset\_0(int offset) +{
- return offset; +} + static VALUE hist\_get(VALUE self, VALUE index) {
- HIST\_ENTRY \*entry;

- HIST\_ENTRY \*entry = NULL;
- int i;

```

rb_secure(4);
@@ -516,7 +532,9 @@
if (i < 0) {
i += history_length;
}

```

- entry = history\_get(history\_base + i);
- if (i >= 0) {
- entry = history\_get(history\_get\_offset\_func(i));
- }
- if (entry == NULL) {
rb\_raise(rb\_eIndexError, "invalid index");



```

}
@@ -527,7 +545,7 @@
hist_set(VALUE self, VALUE index, VALUE str)
{
#ifdef HAVE_REPLACE_HISTORY_ENTRY

```

- HIST\_ENTRY \*entry;

- HIST\_ENTRY \*entry = NULL;

```
int i;
```

```
rb_secure(4);
@@ -536,7 +554,9 @@
if (i < 0) {
i += history_length;
}
```

- entry = replace\_history\_entry(i, RSTRING\_PTR(str), NULL);

- if (i >= 0) {

- entry = replace\_history\_entry(i, RSTRING\_PTR(str), NULL);

- }
if (entry == NULL) {
rb\_raise(rb\_eIndexError, "invalid index");
}

```
@@ -581,7 +601,7 @@
entry = remove_history(index);
if (entry) {
val = rb_tainted_str_new2(entry->line);
```

- [REDACTED]

- [REDACTED]

```
free(entry);
return val;
```

```
}
@@ -624,7 +644,7 @@
```

```
rb_secure(4);
for (i = 0; i < history_length; i++) {
```

- [REDACTED]

- [REDACTED]

```
if (entry == NULL)
break;
```

```
rb_yield(rb_tainted_str_new2(entry->line));
@@ -662,6 +682,19 @@
}
```

```
static VALUE
+hist_clear(VALUE self)
+{
#ifdef HAVE_CLEAR_HISTORY
```

- rb\_secure(4);
- clear\_history();
- return self; +#else
- rb\_notimplement();

- return Qnil; /\* not reached \*/ +#endif +} +static VALUE filename\_completion\_proc\_call(VALUE self, VALUE str) { VALUE result; @@ -782,6 +815,7 @@ rb\_define\_singleton\_method(history,"size", hist\_length, 0); rb\_define\_singleton\_method(history,"empty?", hist\_empty\_p, 0); rb\_define\_singleton\_method(history,"delete\_at", hist\_delete\_at, 1);

- rb\_define\_singleton\_method(history,"clear", hist\_clear, 0);
- rb\_define\_const(mReadline, "HISTORY", history);

```
fcomp = rb_obj_alloc(rb_cObject);
@@ -793,8 +827,19 @@
rb_define_singleton_method(ucomp, "call",
```



```
• [REDACTED]
• end

• end
+=end
+
+=begin

• class << Readline::HISTORY

• def clear

• [REDACTED]

• end

• end
+=end
+rescue LoadError
+else

• require "test/unit"
+end
+
+class Readline::TestHistory < Test::Unit::TestCase

• include Readline
+

• def setup

• HISTORY.clear

• end
+

• def test_safe_level_4

• method_args =

• [REDACTED]
• [REDACTED]
• [REDACTED]
• [REDACTED]
• [REDACTED]
• [REDACTED]
• [REDACTED]
• [REDACTED]
• [REDACTED]
• [REDACTED]
• [REDACTED]
• [REDACTED]
• [REDACTED]
• [REDACTED]
• [REDACTED]
• [REDACTED]

• method_args.each do |method_name, args|

• [REDACTED]
• [REDACTED]
• [REDACTED]
• [REDACTED]
• [REDACTED]
```

- [REDACTED]
- [REDACTED]
- [REDACTED]
- end
- +
- assert\_raises(SecurityError, NotImplementedError,
- [REDACTED]
- [REDACTED]
- [REDACTED]
- [REDACTED]
- [REDACTED]
- [REDACTED]
- [REDACTED]
- end
- end
- def test\_to\_s
- assert\_equal("HISTORY", HISTORY.to\_s)
- end
- +
- def test\_get
- lines = push\_history(5)
- lines.each\_with\_index do |s, i|
- [REDACTED]
- end
- end
- +
- def test\_get\_\_negative
- lines = push\_history(5)
- (1..5).each do |i|
- [REDACTED]
- end
- end
- +
- def test\_get\_\_out\_of\_range
- lines = push\_history(5)
- invalid\_indexes = [5, 6, 100, -6, -7, -100]
- invalid\_indexes.each do |i|
- [REDACTED]
- [REDACTED]
- [REDACTED]





```
• [REDACTED]
• [REDACTED]
• rescue NotImplementedError
• end
• end
+
• def test_shift
• begin
• [REDACTED]
• [REDACTED]
• [REDACTED]
• [REDACTED]
• [REDACTED]
• [REDACTED]
• [REDACTED]
• [REDACTED]
• rescue NotImplementedError
• end
• end
+
• def test_each
• HISTORY.each do |s|
• [REDACTED]
• end
• lines = push_history(5)
• i = 0
• HISTORY.each do |s|
• [REDACTED]
• [REDACTED]
• [REDACTED]
• end
• end
+
• def test_each__enumerator
• e = HISTORY.each
• assert_instance_of(Enumerable::Enumerator, e)
• end
+
• def test_length
• assert_equal(0, HISTORY.length)
• push_history(1)
```







- [REDACTED]
- rescue NotImplementedError
- [REDACTED]
- end
- )

=end

**#17 - 07/30/2008 03:28 PM - kouji (Kouji Takao)**

=begin  
[REDACTED]

On 2008/07/24, at 9:37, Takao Kouji wrote:

On 2008/07/23, at 23:14, Takao Kouji wrote:

```

Readline[REDACTED]
NotImplementedError[REDACTED]
[REDACTED]
[REDACTED]

```

```

[REDACTED]ML[REDACTED]

```

```

[REDACTED]
[REDACTED]

```

```

[REDACTED]
[REDACTED]
[REDACTED] Mac OSX 10.5[REDACTED]
libedit GNU Readline 5.2 [REDACTED]
trunk [REDACTED]
[REDACTED]
[REDACTED] > [REDACTED]

```

```

# [REDACTED]
# [REDACTED]

```

```

Readline::HISTORY[REDACTED]
[REDACTED]
[REDACTED]

```

```

[REDACTED]

```

```

[REDACTED]Readline[REDACTED]
[REDACTED] rdoc [REDACTED]
Readline[REDACTED]

```

<http://doc.loveruby.net/refm/api/view/class/Readline>

```

Readline[REDACTED]

```

=end

**#18 - 07/31/2008 11:00 PM - kouji (Kouji Takao)**

=begin  
[REDACTED]

On 2008/07/31, at 10:05, M.Suzuki wrote:

```

Mac OSX 10.4[REDACTED]

```

```

[REDACTED]

```

```

msuzuki$ ./ruby --version
ruby 1.9.0 (2008-07-31 revision 0) [powerpc-darwin8.11.0]

```

```
msuzuki$ ./ruby -l.ext/powerpc-darwin8.11.0 / -rreadline
test/readline/test_readline_history.rb Loaded suite
test/readline/test_readline_history Started
....F...F...F....
Finished in 0.173369 seconds.
```

```
1) Failure:
test_empty_p(Readline::TestHistory)
[test/readline/test_readline_history.rb:237:in block in
test_empty_p' test/readline/test_readline_history.rb:236:in times'
test/readline/test_readline_history.rb:236:in `test_empty_p']:
is not true.
```

```
2) Failure:
test_length(Readline::TestHistory)
[test/readline/test_readline_history.rb:226]: expected but was
.
```

```

HISTORY.push
empty? true
iibedit add_history
history_length

```

```
3) Failure:
test_safe_level_4(Readline::TestHistory)
[test/readline/test_readline_history.rb:56:in block in
test_safe_level_4' test/readline/test_readline_history.rb:55:in each'
test/readline/test_readline_history.rb:55:in test_safe_level_4']:
method=<[]=>.
<SecurityError> exception expected but was
Class: <NotImplementedError>
Message: <"[]=() function is unimplemented on this machine">
---Backtrace---
test/readline/test_readline_history.rb:60:in []='
test/readline/test_readline_history.rb:60:in `block (3 levels) in
```

### test\_safe\_level\_4'

```


```

```

history

```

GNU Readline

FAQ

Readline RDoc

**[ruby-dev:35645]** (?)

**patch**

**+-**

**patch**

Mac OSX 10.5 Mail.app

=end





=end

**#24 - 08/13/2008 12:59 AM - kouji (Kouji Takao)**

=begin  
I fixed this bug in trunk's revision 18313.  
Do you want to backport to 1.8?  
=end

**#25 - 08/13/2008 01:06 AM - febuiles (Federico Builes)**

=begin  
Kouji: I'm not able to follow the discussion in japanese but it'd be great if this change was backported.  
=end

**#26 - 08/14/2008 01:38 AM - kouji (Kouji Takao)**

- *File no212\_ext-readline-readline.c.patch added*  
- *File no212\_ext-readline-readline.c.patch added*

=begin  
I created the patch for ruby 1.8 branch. The patch was attached. Please try it.

NOTE: This patch applied Ruby failed RubySpec for Readline::HISTORY.  
Because your reported problem was specification in RubySpec. hmm.

=end

**#27 - 08/16/2008 12:53 AM - febuiles (Federico Builes)**

=begin  
The issue with the specs has been fixed by Arthur Schreiber in Rubyspec:947a6dc29, thanks for the patches!  
=end

**#28 - 09/12/2008 05:49 PM - naruse (Yui NARUSE)**

- *Status changed from Open to Closed*

=begin

=end

**Files**

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|                                     |           |            |                     |
|-------------------------------------|-----------|------------|---------------------|
| no212.patch                         | 953 Bytes | 07/13/2008 | kouji (Kouji Takao) |
| no212_ext-readline-readline.c.patch | 4.14 KB   | 08/14/2008 | kouji (Kouji Takao) |
| no212_ext-readline-readline.c.patch | 11.4 KB   | 08/14/2008 | kouji (Kouji Takao) |