

Ruby trunk - Bug #15737

Queue#pop randomly hangs forever

03/29/2019 03:21 AM - k0kubun (Takashi Kokubun)

Status:	Open		
Priority:	Normal		
Assignee:	ko1 (Koichi Sasada)		
Target version:			
ruby -v:	ruby 2.6.1p33 (2019-01-30 revision 66950) [x86_64-linux]	Backport:	2.4: UNKNOWN, 2.5: UNKNOWN, 2.6: UNKNOWN
Description			
<p>With Ruby 2.6, my single-worker application https://github.com/k0kubun/ruboty sometimes stops to respond to a message. <code>rb_queue_pop</code> does not seem to be waken up in <code>rb_sigwait_sleep</code> in some condition.</p>			
<pre>strace: Process 18699 attached ppoll([{fd=3, events=POLLIN}], 1, NULL, NULL, 8^Cstrace: Process 18699 detached <detached ...> k0kubun@kubernetes-master:~\$ sudo gdb -p 18699 GNU gdb (Ubuntu 8.1-0ubuntu3) 8.1.0.20180409-git Copyright (C) 2018 Free Software Foundation, Inc. License GPLv3+: GNU GPL version 3 or later <http://gnu.org/licenses/gpl.html> This is free software: you are free to change and redistribute it. There is NO WARRANTY, to the extent permitted by law. Type "show copying" and "show warranty" for details. This GDB was configured as "x86_64-linux-gnu". Type "show configuration" for configuration details. For bug reporting instructions, please see: <http://www.gnu.org/software/gdb/bugs/>. Find the GDB manual and other documentation resources online at: <http://www.gnu.org/software/gdb/documentation/>. For help, type "help". Type "apropos word" to search for commands related to "word". Attaching to process 18699 [New LWP 18751] [Thread debugging using libthread_db enabled] Using host libthread_db library "/lib/x86_64-linux-gnu/libthread_db.so.1". warning: Target and debugger are in different PID namespaces; thread lists and other data are like ly unreliable. Connect to gdbserver inside the container. 0x00007f3f8f341cf6 in __GI_ppoll (fds=fds@entry=0x7fff91524e18, nfds=nfds@entry=1, timeout=<optimi zed out>, sigmask=sigmask@entry=0x0) at ../sysdeps/unix/sysv/linux/ppoll.c:39 39 ../sysdeps/unix/sysv/linux/ppoll.c: No such file or directory. (gdb) info threads (gdb) info threads Id Target Id Frame * 1 Thread 0x7f3f9088e780 (LWP 18699) "bundle" 0x00007f3f8f341cf6 in __GI_ppoll (fds=fds@entry= 0x7fff91524e18, nfds=nfds@entry=1, timeout=<optimized out>, sigmask=sigmask@entry=0x0) at ../sysdeps/unix/sysv/linux/ppoll.c:39 2 Thread 0x7f3f8bdf5700 (LWP 18751) "client.rb:65" 0x00007f3f90243ed9 in futex_reltimed_wait_ cancelable (private=<optimized out>, reltime=0x7f3f8bdf3f20, expected=0, futex_word=0x7f3f86701f94) at ../sysdeps/unix/sysv/linux/futex-internal.h:142 (gdb) bt #0 0x00007f3f8f341cf6 in __GI_ppoll (fds=fds@entry=0x7fff91524e18, nfds=nfds@entry=1, timeout=<op timized out>, sigmask=sigmask@entry=0x0) at ../sysdeps/unix/sysv/linux/ppoll.c:39 #1 0x00005589562a1af7 in rb_sigwait_sleep (th=th@entry=0x7f3f8e80f080, sigwait_fd=sigwait_fd@entr y=3, rel=rel@entry=0x0) at thread_pthread.c:2039 #2 0x00005589562a4ee6 in native_sleep (th=<optimized out>, rel=0x0) at thread_pthread.c:2159 #3 0x00005589562a54f9 in queue_sleep () at hrttime.h:85 #4 0x0000558956140eb3 in rb_ensure (b_proc=b_proc@entry=0x5589562a5470 <queue_sleep>, data1=data1 @entry=139910854015840, e_proc=e_proc@entry=0x55895629bd80 <queue_sleep_done>, data2=data2@entry=140735631478912) at e</pre>			

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val.c:1075
#5 0x000055895629ecbb in queue_do_pop (should_block=1, q=<optimized out>, self=139910854015840) at
t thread_sync.c:909
#6 rb_queue_pop (argc=<optimized out>, argv=<optimized out>, self=139910854015840) at thread_sync
.c:945
#7 0x00005589562dbf3a in vm_call_cfunc_with_frame (ci=0x7f3f8a545a00, cc=<optimized out>, calling
=<optimized out>, reg_cfp=0x7f3f8e9589a8, ec=0x7f3f8e850348)
  at vm_inshelper.c:1908
#8 vm_call_cfunc (ec=0x7f3f8e850348, reg_cfp=0x7f3f8e9589a8, calling=<optimized out>, ci=0x7f3f8a
545a00, cc=<optimized out>) at vm_inshelper.c:1924
#9 0x00005589562e7e33 in vm_call_method (ec=0x7f3f8e850348, cfp=0x7f3f8e9589a8, calling=<optimize
d out>, ci=<optimized out>, cc=<optimized out>) at vm_inshelper.c:2397
#10 0x00005589562edf9f in vm_exec_core (ec=ec@entry=0x7f3f8e850348, initial=initial@entry=0) at in
sns.def:765
#11 0x00005589562e437c in rb_vm_exec (ec=ec@entry=0x7f3f8e850348, mjit_enable_p=mjit_enable_p@entr
y=1) at vm.c:1885
#12 0x00005589562f5b71 in invoke_block (captured=<optimized out>, opt_pc=<optimized out>, type=<op
timized out>, cref=0x0, self=<optimized out>, iseq=<optimized out>,
  ec=0x7f3f8e850348) at vm.c:1021
#13 invoke_iseq_block_from_c (me=0x0, is_lambda=<optimized out>, cref=0x0, passed_block_handler=0,
  argv=0x0, argc=0, self=<optimized out>, captured=<optimized out>,
  ec=0x7f3f8e850348) at vm.c:1092
#14 invoke_block_from_c_bh (argc=<optimized out>, argv=<optimized out>, passed_block_handler=<opti
mized out>, cref=<optimized out>, is_lambda=<optimized out>,
  force_blockarg=<optimized out>, block_handler=<optimized out>, ec=<optimized out>) at vm.c:111
0
#15 vm_yield (argc=0, argv=0x0, ec=0x7f3f8e850348) at vm.c:1155
#16 rb_yield_0 (argv=0x0, argc=0) at vm_eval.c:978
#17 loop_i () at vm_eval.c:1057
#18 0x00005589561408bf in rb_rescue2 (b_proc=0x5589562f58a0 <loop_i>, data1=0, r_proc=0x5589562d72
a0 <loop_stop>, data2=0) at eval.c:934
#19 0x00005589562dbf3a in vm_call_cfunc_with_frame (ci=0x7f3f8a598950, cc=<optimized out>, calling
=<optimized out>, reg_cfp=0x7f3f8e958a18, ec=0x7f3f8e850348)
  at vm_inshelper.c:1908
#20 vm_call_cfunc (ec=0x7f3f8e850348, reg_cfp=0x7f3f8e958a18, calling=<optimized out>, ci=0x7f3f8a
598950, cc=<optimized out>) at vm_inshelper.c:1924
#21 0x00005589562e7e33 in vm_call_method (ec=0x7f3f8e850348, cfp=0x7f3f8e958a18, calling=<optimize
d out>, ci=<optimized out>, cc=<optimized out>) at vm_inshelper.c:2397
#22 0x00005589562ee043 in vm_exec_core (ec=ec@entry=0x7f3f8e850348, initial=initial@entry=0) at in
sns.def:750
#23 0x00005589562e437c in rb_vm_exec (ec=ec@entry=0x7f3f8e850348, mjit_enable_p=mjit_enable_p@entr
y=1) at vm.c:1885
#24 0x00005589562f5b71 in invoke_block (captured=<optimized out>, opt_pc=<optimized out>, type=<op
timized out>, cref=0x0, self=<optimized out>, iseq=<optimized out>,
  ec=0x7f3f8e850348) at vm.c:1021
#25 invoke_iseq_block_from_c (me=0x0, is_lambda=<optimized out>, cref=0x0, passed_block_handler=0,
  argv=0x0, argc=0, self=<optimized out>, captured=<optimized out>,
  ec=0x7f3f8e850348) at vm.c:1092
#26 invoke_block_from_c_bh (argc=<optimized out>, argv=<optimized out>, passed_block_handler=<opti
mized out>, cref=<optimized out>, is_lambda=<optimized out>,
  force_blockarg=<optimized out>, block_handler=<optimized out>, ec=<optimized out>) at vm.c:111
0
#27 vm_yield (argc=0, argv=0x0, ec=0x7f3f8e850348) at vm.c:1155
#28 rb_yield_0 (argv=0x0, argc=0) at vm_eval.c:978
#29 loop_i () at vm_eval.c:1057
#30 0x00005589561408bf in rb_rescue2 (b_proc=0x5589562f58a0 <loop_i>, data1=0, r_proc=0x5589562d72
a0 <loop_stop>, data2=0) at eval.c:934
---Type <return> to continue, or q <return> to quit---
#31 0x00005589562dbf3a in vm_call_cfunc_with_frame (ci=0x7f3f8a56fa90, cc=<optimized out>, calling
=<optimized out>, reg_cfp=0x7f3f8e958ac0, ec=0x7f3f8e850348)
  at vm_inshelper.c:1908
#32 vm_call_cfunc (ec=0x7f3f8e850348, reg_cfp=0x7f3f8e958ac0, calling=<optimized out>, ci=0x7f3f8a
56fa90, cc=<optimized out>) at vm_inshelper.c:1924
#33 0x00005589562e7e33 in vm_call_method (ec=0x7f3f8e850348, cfp=0x7f3f8e958ac0, calling=<optimize
d out>, ci=<optimized out>, cc=<optimized out>) at vm_inshelper.c:2397
#34 0x00005589562ee043 in vm_exec_core (ec=0x7f3f8e850348, initial=initial@entry=0) at insns.def:7
50
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#35 0x00005589562e499f in rb_vm_exec (ec=0x7f3f8e850348, mjit_enable_p=mjit_enable_p@entry=1) at v
m.c:1894
#36 0x00005589562f5fa1 in rb_iseq_eval (iseq=iseq@entry=0x7f3f8bbb32b8) at vm.c:2133
#37 0x0000558956193787 in rb_load_internal0 (ec=ec@entry=0x7f3f8e850348, fname=fname@entry=1399109
03970800, wrap=<optimized out>) at load.c:612
#38 0x0000558956193a50 in rb_load_internal (wrap=0, fname=139910903970800) at load.c:643
#39 rb_f_load (argc=<optimized out>, argv=<optimized out>) at load.c:711
#40 0x00005589562dbf3a in vm_call_cfunc_with_frame (ci=0x7f3f8bb07d80, cc=<optimized out>, calling
=<optimized out>, reg_cfp=0x7f3f8e958c48, ec=0x7f3f8e850348)
    at vm_insnhelper.c:1908
#41 vm_call_cfunc (ec=0x7f3f8e850348, reg_cfp=0x7f3f8e958c48, calling=<optimized out>, ci=0x7f3f8b
b07d80, cc=<optimized out>) at vm_insnhelper.c:1924
#42 0x00005589562e7e33 in vm_call_method (ec=0x7f3f8e850348, cfp=0x7f3f8e958c48, calling=<optimiz
ed out>, ci=<optimized out>, cc=<optimized out>) at vm_insnhelper.c:2397
#43 0x00005589562edf9f in vm_exec_core (ec=ec@entry=0x7f3f8e850348, initial=initial@entry=0) at in
sns.def:765
#44 0x00005589562e437c in rb_vm_exec (ec=0x7f3f8e850348, mjit_enable_p=mjit_enable_p@entry=1) at v
m.c:1885
#45 0x00005589562f5fa1 in rb_iseq_eval (iseq=iseq@entry=0x7f3f8bb73b68) at vm.c:2133
#46 0x0000558956193787 in rb_load_internal0 (ec=ec@entry=0x7f3f8e850348, fname=fname@entry=1399109
03678960, wrap=<optimized out>) at load.c:612
#47 0x0000558956193a50 in rb_load_internal (wrap=0, fname=139910903678960) at load.c:643
#48 rb_f_load (argc=<optimized out>, argv=<optimized out>) at load.c:711
#49 0x00005589562dbf3a in vm_call_cfunc_with_frame (ci=0x7f3f8b98cc30, cc=<optimized out>, calling
=<optimized out>, reg_cfp=0x7f3f8e958cb8, ec=0x7f3f8e850348)
    at vm_insnhelper.c:1908
#50 vm_call_cfunc (ec=0x7f3f8e850348, reg_cfp=0x7f3f8e958cb8, calling=<optimized out>, ci=0x7f3f8b
98cc30, cc=<optimized out>) at vm_insnhelper.c:1924
#51 0x00005589562e7e33 in vm_call_method (ec=0x7f3f8e850348, cfp=0x7f3f8e958cb8, calling=<optimiz
ed out>, ci=<optimized out>, cc=<optimized out>) at vm_insnhelper.c:2397
#52 0x00005589562edf9f in vm_exec_core (ec=0x7f3f8e850348, initial=initial@entry=0) at insns.def:7
65
#53 0x00005589562e499f in rb_vm_exec (ec=0x7f3f8e850348, mjit_enable_p=mjit_enable_p@entry=1) at v
m.c:1894
#54 0x00005589562f5fa1 in rb_iseq_eval (iseq=iseq@entry=0x7f3f8c040420) at vm.c:2133
#55 0x0000558956193787 in rb_load_internal0 (ec=ec@entry=0x7f3f8e850348, fname=fname@entry=1399109
09116680, wrap=<optimized out>) at load.c:612
#56 0x0000558956193a50 in rb_load_internal (wrap=0, fname=139910909116680) at load.c:643
#57 rb_f_load (argc=<optimized out>, argv=<optimized out>) at load.c:711
#58 0x00005589562dbf3a in vm_call_cfunc_with_frame (ci=0x7f3f8c187700, cc=<optimized out>, calling
=<optimized out>, reg_cfp=0x7f3f8e958f90, ec=0x7f3f8e850348)
    at vm_insnhelper.c:1908
#59 vm_call_cfunc (ec=0x7f3f8e850348, reg_cfp=0x7f3f8e958f90, calling=<optimized out>, ci=0x7f3f8c
187700, cc=<optimized out>) at vm_insnhelper.c:1924
#60 0x00005589562e7e33 in vm_call_method (ec=0x7f3f8e850348, cfp=0x7f3f8e958f90, calling=<optimiz
ed out>, ci=<optimized out>, cc=<optimized out>) at vm_insnhelper.c:2397
#61 0x00005589562edf9f in vm_exec_core (ec=0x7f3f8e850348, initial=initial@entry=0) at insns.def:7
65
#62 0x00005589562e499f in rb_vm_exec (ec=0x7f3f8e850348, mjit_enable_p=mjit_enable_p@entry=1) at v
m.c:1894
#63 0x00005589562f60ba in rb_iseq_eval_main (iseq=iseq@entry=0x7f3f8c1960e0) at vm.c:2144
#64 0x000055895613b0f3 in ruby_exec_internal (n=0x7f3f8c1960e0) at eval.c:261
#65 0x000055895613fe6b in ruby_exec_node (n=<optimized out>) at eval.c:325
#66 ruby_run_node (n=<optimized out>) at eval.c:317
#67 0x000055895613adeb in main (argc=<optimized out>, argv=<optimized out>) at ./main.c:42
(gdb)
(gdb) thread 2
[Switching to thread 2 (Thread 0x7f3f8bdf5700 (LWP 18751))]
#0 0x00007f3f90243ed9 in futex_reltimed_wait_cancelable (private=<optimized out>, reltime=0x7f3f8
bdf3f20, expected=0, futex_word=0x7f3f86701f94)
    at ../sysdeps/unix/sysv/linux/futex-internal.h:142
142     ../sysdeps/unix/sysv/linux/futex-internal.h: No such file or directory.
(gdb) bt
#0 0x00007f3f90243ed9 in futex_reltimed_wait_cancelable (private=<optimized out>, reltime=0x7f3f8
bdf3f20, expected=0, futex_word=0x7f3f86701f94)
    at ../sysdeps/unix/sysv/linux/futex-internal.h:142
#1 __pthread_cond_wait_common (abstime=0x7f3f8bdf4010, mutex=0x7f3f86701fc0, cond=0x7f3f86701f68)

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at pthread_cond_wait.c:533
#2 __pthread_cond_timedwait (cond=cond@entry=0x7f3f86701f68, mutex=mutex@entry=0x7f3f86701fc0, abstime=abstime@entry=0x7f3f8bdf4010) at pthread_cond_wait.c:667
#3 0x00005589562a426a in native_cond_timedwait (abs=<synthetic pointer>, mutex=0x7f3f86701fc0, cond=0x7f3f86701f68) at thread_pthread.c:529
#4 native_cond_sleep (th=th@entry=0x7f3f86701f00, rel=rel@entry=0x7f3f8bdf40a0) at thread_pthread.c:1272
#5 0x00005589562a440f in native_sleep (th=0x7f3f86701f00, rel=0x7f3f8bdf40a0) at thread_pthread.c:2173
#6 0x00005589562a5a09 in sleep_hrtime (fl=2, rel=<optimized out>, th=0x7f3f86701f00) at thread.c:1276
#7 rb_thread_wait_for (time=...) at thread.c:1324
#8 0x0000558956207b90 in rb_f_sleep (argc=1, argv=0x7f3f8511b070) at process.c:4832
#9 0x00005589562dbf3a in vm_call_cfunc_with_frame (ci=0x7f3f8a545ca0, cc=<optimized out>, calling=<optimized out>, reg_cfp=0x7f3f8521af20, ec=0x7f3f8657ba48)
  at vm_inshelper.c:1908
#10 vm_call_cfunc (ec=0x7f3f8657ba48, reg_cfp=0x7f3f8521af20, calling=<optimized out>, ci=0x7f3f8a545ca0, cc=<optimized out>) at vm_inshelper.c:1924
#11 0x00005589562edf9f in vm_exec_core (ec=ec@entry=0x7f3f8657ba48, initial=initial@entry=0) at insns.def:765
#12 0x00005589562e437c in rb_vm_exec (ec=ec@entry=0x7f3f8657ba48, mjit_enable_p=mjit_enable_p@entry=1) at vm.c:1885
#13 0x00005589562f5b71 in invoke_block (captured=<optimized out>, opt_pc=<optimized out>, type=<optimized out>, cref=0x0, self=<optimized out>, iseq=<optimized out>, ec=0x7f3f8657ba48) at vm.c:1021
#14 invoke_iseq_block_from_c (me=0x0, is_lambda=<optimized out>, cref=0x0, passed_block_handler=0, argv=0x0, argc=0, self=<optimized out>, captured=<optimized out>, ec=0x7f3f8657ba48) at vm.c:1092
#15 invoke_block_from_c_bh (argc=<optimized out>, argv=<optimized out>, passed_block_handler=<optimized out>, cref=<optimized out>, is_lambda=<optimized out>, force_blockarg=<optimized out>, block_handler=<optimized out>, ec=<optimized out>) at vm.c:1110
#16 vm_yield (argc=0, argv=0x0, ec=0x7f3f8657ba48) at vm.c:1155
#17 rb_yield_0 (argv=0x0, argc=0) at vm_eval.c:978
#18 loop_i () at vm_eval.c:1057
#19 0x00005589561408bf in rb_rescue2 (b_proc=0x5589562f58a0 <loop_i>, data1=0, r_proc=0x5589562d72a0 <loop_stop>, data2=0) at eval.c:934
#20 0x00005589562dbf3a in vm_call_cfunc_with_frame (ci=0x7f3f8a6072e0, cc=<optimized out>, calling=<optimized out>, reg_cfp=0x7f3f8521af90, ec=0x7f3f8657ba48)
  at vm_inshelper.c:1908
#21 vm_call_cfunc (ec=0x7f3f8657ba48, reg_cfp=0x7f3f8521af90, calling=<optimized out>, ci=0x7f3f8a6072e0, cc=<optimized out>) at vm_inshelper.c:1924
#22 0x00005589562e7e33 in vm_call_method (ec=0x7f3f8657ba48, cfp=0x7f3f8521af90, calling=<optimized out>, ci=<optimized out>, cc=<optimized out>) at vm_inshelper.c:2397
#23 0x00005589562ee043 in vm_exec_core (ec=ec@entry=0x7f3f8657ba48, initial=initial@entry=0) at insns.def:750
#24 0x00005589562e437c in rb_vm_exec (ec=0x7f3f8657ba48, mjit_enable_p=mjit_enable_p@entry=1) at vm.c:1885
#25 0x00005589562e4dc1 in invoke_block (ec=ec@entry=0x7f3f8657ba48, iseq=iseq@entry=0x7f3f8baee4b8, self=self@entry=139910854015920, cref=cref@entry=0x0, type=type@entry=572653569, opt_pc=0, captured=<optimized out>) at vm.c:1021
#26 0x00005589562e8757 in invoke_iseq_block_from_c (me=0x0, is_lambda=<optimized out>, cref=0x0, passed_block_handler=0, argv=0x7f3f8511b018, argc=0, self=139910854015920, captured=0x7f3f871ed5b0, ec=0x7f3f8657ba48) at vm.c:1092
#27 invoke_block_from_c_proc (me=0x0, is_lambda=<optimized out>, passed_block_handler=0, argv=0x7f3f8511b018, argc=0, self=139910854015920, proc=0x7f3f88c0fbb0, ec=0x7f3f8657ba48) at vm.c:1192
#28 vm_invoke_proc (passed_block_handler=0, argv=0x7f3f8511b018, argc=0, self=139910854015920, proc=0x7f3f88c0fbb0, ec=0x7f3f8657ba48) at vm.c:1210
#29 rb_vm_invoke_proc (ec=0x7f3f8657ba48, proc=proc@entry=0x7f3f871ed5b0, argc=argc@entry=0, argv=argv@entry=0x7f3f8bdf4b90, passed_block_handler=passed_block_handler@entry=0)
  at vm.c:1231
#30 0x00005589562a1641 in thread_do_start (th=th@entry=0x7f3f86701f00) at thread.c:686
---Type <return> to continue, or q <return> to quit---
#31 0x00005589562a38c6 in thread_start_func_2 (th=th@entry=0x7f3f86701f00, stack_start=<optimized out>) at thread.c:725
#32 0x00005589562a3ddb in thread_start_func_1 (th_ptr=<optimized out>) at thread_pthread.c:1030

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#33 0x00007f3f9023d6db in start_thread (arg=0x7f3f8bdf5700) at pthread_create.c:463
#34 0x00007f3f8f34e88f in clone () at ../sysdeps/unix/sysv/linux/x86_64/clone.S:95
(gdb) q
A debugging session is active.

        Inferior 1 [process 18699] will be detached.

Quit anyway? (y or n) y
Detaching from program: target:/usr/local/bin/ruby, process 18699
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History

#1 - 03/29/2019 03:21 AM - k0kubun (Takashi Kokubun)

- Subject changed from *Queue#pop hangs forever* to *Queue#pop randomly hangs forever*

#2 - 03/29/2019 03:41 AM - k0kubun (Takashi Kokubun)

FYI, here is rb_ps output:

```
(gdb) rb_ps
$1 = (rb_vm_t *) 0x7f3f8e840400
* #<Thread:0x7f3f8e98f330 rb_thread_t:0x7f3f8e80f080 native_thread:0x7f3f9088e780>
29:0x55895629eb90 <rb_queue_pop at thread_sync.c:943>:in `pop'
28:/usr/local/lib/ruby/gems/2.6.0/gems/ruboty-slack_rtm-3.1.0/lib/ruboty/slack_rtm/client.rb:39:in `block in main_loop'
27:0x5589562d8680 <rb_f_loop at vm_eval.c:1106>:in `loop'
26:/usr/local/lib/ruby/gems/2.6.0/gems/ruboty-slack_rtm-3.1.0/lib/ruboty/slack_rtm/client.rb:38:in `main_loop'
25:/usr/local/lib/ruby/gems/2.6.0/gems/ruboty-slack_rtm-3.1.0/lib/ruboty/adapters/slack_rtm.rb:96:in `block in connect'
24:0x5589562d8680 <rb_f_loop at vm_eval.c:1106>:in `loop'
23:/usr/local/lib/ruby/gems/2.6.0/gems/ruboty-slack_rtm-3.1.0/lib/ruboty/adapters/slack_rtm.rb:95:in `connect'
22:/usr/local/lib/ruby/gems/2.6.0/gems/ruboty-slack_rtm-3.1.0/lib/ruboty/adapters/slack_rtm.rb:21:in `run'
21:/usr/local/lib/ruby/gems/2.6.0/gems/ruboty-1.3.0/lib/ruboty/robot.rb:56:in `adapt'
20:/usr/local/lib/ruby/gems/2.6.0/gems/ruboty-1.3.0/lib/ruboty/robot.rb:24:in `run'
19:/usr/local/lib/ruby/gems/2.6.0/gems/ruboty-1.3.0/lib/ruboty/commands/run.rb:5:in `call'
18:/usr/local/lib/ruby/gems/2.6.0/gems/ruboty-1.3.0/bin/ruboty:6:in `<top (required)>'
17:0x5589561939d0 <rb_f_load at ./include/ruby/intern.h:326>:in `load'
16:/usr/local/bin/ruboty:23:in `<top (required)>'
15:0x5589561939d0 <rb_f_load at ./include/ruby/intern.h:326>:in `load'
14:/usr/local/lib/ruby/2.6.0/bundler/cli/exec.rb:74:in `kernel_load'
13:/usr/local/lib/ruby/2.6.0/bundler/cli/exec.rb:28:in `run'
12:/usr/local/lib/ruby/2.6.0/bundler/cli.rb:463:in `exec'
11:/usr/local/lib/ruby/2.6.0/bundler/vendor/thor/lib/thor/command.rb:27:in `run'
10:/usr/local/lib/ruby/2.6.0/bundler/vendor/thor/lib/thor/invocation.rb:126:in `invoke_command'
9:/usr/local/lib/ruby/2.6.0/bundler/vendor/thor/lib/thor.rb:387:in `dispatch'
8:/usr/local/lib/ruby/2.6.0/bundler/cli.rb:27:in `dispatch'
7:/usr/local/lib/ruby/2.6.0/bundler/vendor/thor/lib/thor/base.rb:466:in `start'
6:/usr/local/lib/ruby/2.6.0/bundler/cli.rb:18:in `start'
5:/usr/local/lib/ruby/gems/2.6.0/gems/bundler-1.17.2/exe/bundle:30:in `block in <top (required)>'
4:/usr/local/lib/ruby/2.6.0/bundler/friendly_errors.rb:124:in `with_friendly_errors'
3:/usr/local/lib/ruby/gems/2.6.0/gems/bundler-1.17.2/exe/bundle:22:in `<top (required)>'
2:0x5589561939d0 <rb_f_load at ./include/ruby/intern.h:326>:in `load'
1:/usr/local/bin/bundle:23:in `<main>'
* #<Thread:0x7f3f871cb470 rb_thread_t:0x7f3f86701f00 native_thread:0x7f3f8bdf5700>
4:0x558956207b60 <rb_f_sleep at process.c:4823>:in `sleep'
3:/usr/local/lib/ruby/gems/2.6.0/gems/ruboty-slack_rtm-3.1.0/lib/ruboty/slack_rtm/client.rb:67:in `block (2 levels) in keep_connection'
2:0x5589562d8680 <rb_f_loop at vm_eval.c:1106>:in `loop'
1:/usr/local/lib/ruby/gems/2.6.0/gems/ruboty-slack_rtm-3.1.0/lib/ruboty/slack_rtm/client.rb:66:in `block in keep_connection'
```

#3 - 04/02/2019 03:01 AM - k0kubun (Takashi Kokubun)

- Assignee changed from *normalperson (Eric Wong)* to *ko1 (Koichi Sasada)*