

Ruby - Bug #17882

bootstraptest/test_ractor.rb:224 segfaults on Cygwin

05/22/2021 04:03 PM - xtkoba (Tee KOBAYASHI)

Status:	Assigned	
Priority:	Normal	
Assignee:	cygwin	
Target version:		
ruby -v:	ruby 3.1.0dev (2021-05-21T09:28:24Z master 50a534a152) [x86_64-cygwin]	Backport: 2.6: UNKNOWN, 2.7: UNKNOWN, 3.0: UNKNOWN
Description The attached test code is excerpted from bootstraptest/test_ractor.rb:224. This code causes a segmentation fault every time when run on x86_64-cygwin. There are at least 3 types of dying messages, as shown below. I have no idea whether this is relevant to #17878, which is an issue with the very same test code. Type 1 (null pointer dereference): <pre>Thread 6 received signal SIGSEGV, Segmentation fault. [Switching to Thread 5368] VM_CF_BLOCK_HANDLER (cfp=0x0) at ../vm.c:115 115 const VALUE *ep = VM_CF_LEP(cfp); (gdb) bt #0 VM_CF_BLOCK_HANDLER (cfp=0x0) at ../vm.c:115 #1 0x00007ff6acedb495 in rb_vm_frame_block_handler (cfp=<optimized out>) at ../vm.c:128 #2 0x00007ff6acdd954e in pass_passed_block_handler (ec=0x80012bba0) at ../eval_intern.h:17 #3 rb_obj_call_init_kw (obj=obj@entry=123145240968920, argc=argc@entry=1, argv=argv@entry=0xffd0ca08, kw_splat=kw_splat@entry=0) at ../eval.c:1724 #4 0x00007ff6ace3efc2 in rb_class_new_instance (argc=argc@entry=1, argv=argv@entry=0xffd0ca08, klass=klass@entry=123145300575160) at ../object.c:2192 #5 0x00007ff6acd1c30 in rb_exc_new_str (etype=etype@entry=123145300575160, str=<optimized out>) at ../error.c:1123 #6 0x00007ff6acdd29ad in rb_vraise (exc=123145300575160, fmt=<optimized out>, ap=<optimized out>) at ../error.c:2922 #7 0x00007ff6acdd29e5 in rb_raise (exc=0, fmt=0x0) at ../error.c:2930 #8 0x00007ff6acdf90e8 in rb_io_check_initialized (fp_ptr=0x0) at ../io.c:767 #9 rb_io_check_initialized (fp_ptr=<optimized out>) at ../io.c:764 #10 0x00007ff6acdf90fb in rb_io_check_closed (fp_ptr=0x0) at ../io.c:774 #11 0x00007ff6ace011ec in prep_stdio (f=0x18023acb8 <reent_data+1336>, fmode=fmode@entry=1, klass=123145300573360, klass@entry=140697440105184, path=path@entry=0x7ff6acf158e0 <prelude_table+2944> "<STDIN>") at ../io.c:8239 #12 0x00007ff6ace0122f in rb_io_prep_stdin () at ../io.c:8255 #13 0x00007ff6acebc980 in thread_start_func_2 (th=0x0, th@entry=0x80011cbf0, stack_start=stack_start@entry=0xffd0ccf8) at ../thread.c:801 #14 0x00007ff6acebd032 in thread_start_func_1 (th_ptr=<optimized out>) at ../thread_pthread.c:1035 #15 0x0000000018016d45f in pthread::thread_init_wrapper(void*) () from target:/usr/bin/cygwin1.dll #16 0x000000001800ddbba in pthread_wrapper () from target:/usr/bin/cygwin1.dll #17 0x0000000000000000 in ?? () Backtrace stopped: previous frame inner to this frame (corrupt stack?)</pre> Type 2 (rb_gc_mark(): <address> is T_ZOMBIE): <pre>Thread 7 hit Breakpoint 1, rb_bug (fmt=0x7ff6acf1396a <stat_data_type+8138> "rb_gc_mark(): %p is T_ZOMBIE") at ../error.c:782 782 { (gdb) bt #0 rb_bug (fmt=0x7ff6acf1396a <stat_data_type+8138> "rb_gc_mark(): %p is T_ZOMBIE") at ../error.c:782 #1 0x00007ff6acdeae8f in gc_mark_children (objspace=objspace@entry=0x800053970, obj=obj@entry=123145240171400) at ../gc.c:6934 #2 0x00007ff6acdeafb0 in gc_mark_stacked_objects (objspace=0x800053970, incremental=incremental@entry=0, count=count@entry=0) at ../gc.c:6961</pre>		

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#3 0x00007ff6acdcd415 in gc_mark_stacked_objects_all (objspace=0x800053970) at ../gc.c:7001
#4 gc_marks_rest (objspace=objspace@entry=0x800053970) at ../gc.c:7972
#5 0x00007ff6acdec08c in gc_marks (full_mark=<optimized out>, objspace=0x800053970) at ../gc.c:80
28
#6 gc_start (objspace=objspace@entry=0x800053970, reason=<optimized out>, reason@entry=256) at ..
/gc.c:8862
#7 0x00007ff6acdee522 in heap_prepare (heap=0x800053998, objspace=0x800053970) at ../gc.c:2153
#8 heap_next_freepage (heap=0x800053998, objspace=0x800053970) at ../gc.c:2444
#9 ractor_cache_slots (objspace=objspace@entry=0x800053970, cr=cr@entry=0x800135d60) at ../gc.c:2
476
#10 0x00007ff6acdee61a in newobj_slowpath (alloc_size=<optimized out>, wb_protected=0, cr=0x800135
d60, objspace=0x800053970, flags=11, klass=123145300573360) at ../gc.c:2517
#11 newobj_slowpath_wb_unprotected (klass=123145300573360, flags=11, objspace=0x800053970, cr=0x80
0135d60, alloc_size=<optimized out>) at ../gc.c:2547
#12 0x00007ff6acdee815 in newobj_of0 (klass=klass@entry=123145300573360, flags=flags@entry=11, wb_
protected=wb_protected@entry=0, cr=<optimized out>, alloc_size=<optimized out>) at ../gc.c:2585
#13 0x00007ff6acdee86d in newobj_of (klass=klass@entry=123145300573360, flags=flags@entry=11, v1=v
1@entry=0, v2=v2@entry=0, v3=v3@entry=0, wb_protected=wb_protected@entry=0, alloc_size=40) at ../g
c.c:2594
#14 0x00007ff6acdeec23 in rb_wb_unprotected_newobj_of (klass=klass@entry=123145300573360, flags=fl
ags@entry=11, size=40, size@entry=0) at ../gc.c:2610
#15 0x00007ff6acdf666c in io_alloc (klass=klass@entry=123145300573360) at ../io.c:1038
#16 0x00007ff6acdfbca9 in prep_io (fd=2, fmode=fmode@entry=65546, klass=klass@entry=12314530057336
0, path=path@entry=0x7ff6acf158f1 <prelude_table+2961> "<STDERR>") at ../io.c:8206
#17 0x00007ff6ace011d4 in prep_stdio (f=0x18023ae28 <reent_data+1704>, fmode=fmode@entry=10, klass
=123145300573360, klass@entry=34361007456, path=path@entry=0x7ff6acf158f1 <prelude_table+2961> "<S
TDERR>") at ../io.c:8237
#18 0x00007ff6ace01295 in rb_io_prep_stderr () at ../io.c:8267
#19 0x00007ff6acebc9a6 in thread_start_func_2 (th=0x0, th@entry=0x800134550, stack_start=stack_sta
rt@entry=0xffa0ccf8) at ../thread.c:803
#20 0x00007ff6acebd032 in thread_start_func_1 (th_ptr=<optimized out>) at ../thread_pthread.c:1035
#21 0x0000000018016d45f in pthread::thread_init_wrapper(void*) () from target:/usr/bin/cygwin1.dll
#22 0x000000001800ddbba in pthread_wrapper () from target:/usr/bin/cygwin1.dll
#23 0x0000000000000000 in ?? ()
Backtrace stopped: previous frame inner to this frame (corrupt stack?)

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Type 3 (try to mark T_NONE object):

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<OBJ_INFO:gc_mark_ptr@../gc.c:6580> 0x00006fffffe7fb70 [0 M ] T_NONE
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Thread 7 hit Breakpoint 1, rb_bug (fmt=fmt@entry=0x7ff6acf138a0 <stat_data_type+7936> "try to mark
T_NONE object") at ../error.c:782
782 {
(gdb) bt
#0 rb_bug (fmt=fmt@entry=0x7ff6acf138a0 <stat_data_type+7936> "try to mark T_NONE object") at ../
error.c:782
#1 0x00007ff6acdea5c9 in gc_mark_ptr (objspace=0x800053970, obj=123145300736880) at ../gc.c:6581
#2 0x00007ff6ace672ea in ractor_mark (ptr=0x800117240) at ../ractor.c:197
#3 0x00007ff6acdeafb0 in gc_mark_stacked_objects (objspace=objspace@entry=0x800053970, incrementa
l=incremental@entry=1, count=count@entry=2147483647) at ../gc.c:6961
#4 0x00007ff6acdcd3f9 in gc_mark_stacked_objects_incremental (count=2147483647, objspace=0x800053
970) at ../gc.c:6995
#5 gc_marks_rest (objspace=objspace@entry=0x800053970) at ../gc.c:7968
#6 0x00007ff6acdee4f1 in gc_marks_continue (heap=0x800053998, objspace=0x800053970) at ../gc.c:80
12
#7 heap_prepare (heap=0x800053998, objspace=0x800053970) at ../gc.c:2148
#8 heap_next_freepage (heap=0x800053998, objspace=0x800053970) at ../gc.c:2444
#9 ractor_cache_slots (objspace=objspace@entry=0x800053970, cr=cr@entry=0x800129350) at ../gc.c:2
476
#10 0x00007ff6acdee61a in newobj_slowpath (alloc_size=<optimized out>, wb_protected=0, cr=0x800129
350, objspace=0x800053970, flags=11, klass=123145300573360) at ../gc.c:2517
#11 newobj_slowpath_wb_unprotected (klass=123145300573360, flags=11, objspace=0x800053970, cr=0x80
0129350, alloc_size=<optimized out>) at ../gc.c:2547
#12 0x00007ff6acdee815 in newobj_of0 (klass=klass@entry=123145300573360, flags=flags@entry=11, wb_
protected=wb_protected@entry=0, cr=<optimized out>, alloc_size=<optimized out>) at ../gc.c:2585

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#13 0x00007ff6acdee86d in newobj_of (klass=klass@entry=123145300573360, flags=flags@entry=11, v1=v1@entry=0, v2=v2@entry=0, v3=v3@entry=0, wb_protected=wb_protected@entry=0, alloc_size=40) at ../gc.c:2594
#14 0x00007ff6acdeec23 in rb_wb_unprotected_newobj_of (klass=klass@entry=123145300573360, flags=flags@entry=11, size=40, size@entry=0) at ../gc.c:2610
#15 0x00007ff6acdf666c in io_alloc (klass=klass@entry=123145300573360) at ../io.c:1038
#16 0x00007ff6acdfbca9 in prep_io (fd=0, fmode=fmode@entry=65537, klass=klass@entry=123145300573360, path=path@entry=0x7ff6acf158e0 <prelude_table+2944> "<STDIN>") at ../io.c:8206
#17 0x00007ff6ace011d4 in prep_stdio (f=0x18023acb8 <reent_data+1336>, fmode=fmode@entry=1, klass=123145300573360, klass@entry=140697440105184, path=path@entry=0x7ff6acf158e0 <prelude_table+2944> "<STDIN>") at ../io.c:8237
#18 0x00007ff6ace0122f in rb_io_prep_stdin () at ../io.c:8255
#19 0x00007ff6acebc980 in thread_start_func_2 (th=0x0, th@entry=0x80010dcb0, stack_start=stack_start@entry=0xffa0ccf8) at ../thread.c:801
#20 0x00007ff6acebd032 in thread_start_func_1 (th_ptr=<optimized out>) at ../thread_pthread.c:1035
#21 0x000000018016d45f in pthread::thread_init_wrapper(void*) () from target:/usr/bin/cygwin1.dll
#22 0x00000001800ddbba in pthread_wrapper () from target:/usr/bin/cygwin1.dll
#23 0x0000000000000000 in ?? ()
Backtrace stopped: previous frame inner to this frame (corrupt stack?)
```

History

#1 - 09/18/2021 06:51 PM - xtkoba (Tee KOBAYASHI)

This no longer happens as of [4cc44bd819](#), though not bisected. Thanks.

#2 - 11/30/2021 05:38 AM - hsbt (Hiroshi SHIBATA)

- Status changed from Open to Assigned
- Assignee set to ko1 (Koichi Sasada)

#3 - 12/14/2021 04:30 PM - ko1 (Koichi Sasada)

Sorry now I don't have cygwin.
Should we support it?

#4 - 12/14/2021 04:48 PM - jeremyevans0 (Jeremy Evans)

ko1 (Koichi Sasada) wrote in [#note-3](#):

Sorry now I don't have cygwin.
Should we support it?

We currently have 16 open bugs related to cygwin: <http://tagged-ruby-bugs.jeremyevans.net/#-cygwin>. Considering WSL (Windows Subsystem for Linux) has been around for over 5 years, and cygwin has no platform maintainer according to doc/maintainers.rdoc, I think it is no longer necessary to support cygwin. I recommend dropping cygwin support and closing related tickets.

#5 - 05/19/2022 08:20 AM - naruse (Yui NARUSE)

- Assignee changed from ko1 (Koichi Sasada) to cygwin

Files

bootstrap-test_ractor-line224.rb	402 Bytes	05/22/2021	xtkoba (Tee KOBAYASHI)
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