

Ruby master - Bug #15509

TCPServer#accept isn't interrupted

01/05/2019 06:09 PM - larskanis (Lars Kanis)

Status: Open	
Priority: Normal	
Assignee:	
Target version:	
ruby -v: ruby 2.6.0p0 (2018-12-25 revision 66547) [x86_64-linux]	Backport: 2.4: UNKNOWN, 2.5: UNKNOWN, 2.6: UNKNOWN

Description

This is another issue I noticed with [Eventbox](#):

This script tries to stop TCPServer#accept with Thread#raise:

```
require "socket"
Thread.abort_on_exception = true

class Stop < RuntimeError
end

serv = TCPServer.new("localhost", 12345)

th = Thread.handle_interrupt(Exception => :never) do
  Thread.new do
    begin
      Thread.handle_interrupt(Stop => :on_blocking) do
#         sleep      # sleep is aborted
          serv.accept # but accept isn't
        end
      rescue Stop
        end
    end
  end
end

th.raise Stop
th.join
serv.close
```

The program freezes and if stopped per CTRL-C the output looks similar to:

```
$ ruby -d --disable-gems no-interrupt-while-accept.rb
^CException `Interrupt' at no-interrupt-while-accept.rb:23 -
Exception `Stop' at no-interrupt-while-accept.rb:15 - Stop
Traceback (most recent call last):
  1: from no-interrupt-while-accept.rb:23:in `'
no-interrupt-while-accept.rb:23:in `join': Interrupt
```

The debug output shows, that the Stop exception is delivered after the Interrupt exception has been delivered to the main thread. However it should be delivered immediately, since it's a blocking operation. In contrast sleep is aborted as expected.

This issue is present on all older MRI versions. However it doesn't appear on JRuby-9.2.5.0.

History

#1 - 08/28/2019 06:32 PM - jeremyevans0 (Jeremy Evans)

- Status changed from Open to Closed

This problem appears fixed in 2.6.4 and 2.7.0-preview1 in my environment (OpenBSD-amd64). It still occurs in 2.5.6. If it still occurs for you in 2.6.4, please reopen.

#2 - 01/14/2020 10:38 AM - larskanis (Lars Kanis)

- Status changed from Closed to Open

Thank you [jeremyevans0 \(Jeremy Evans\)](#) for checking this! Unfortunately it still fails on Linux. I tried the following recent ruby versions and they all block infinitely:

```
ruby 2.7.0p0 (2019-12-25 revision 647ee6f091) [x86_64-linux]
ruby 2.6.5p114 (2019-10-01 revision 67812) [x86_64-linux]
ruby 2.5.7p206 (2019-10-01 revision 67816) [x86_64-linux]
```

It however stops as expected on Windows:

```
$ ruby -v
ruby 2.7.0p0 (2019-12-25 revision 647ee6f091) [i386-mingw32]
$ ruby -d --disable-gems bug_15509.rb
Exception `Stop' at bug_15509.rb:14 - Stop
```