

Ruby - Bug #9247

Bugs in socket.rb (exception retrieval)

12/13/2013 11:58 PM - ko1 (Koichi Sasada)

Status:	Closed	Backport: 1.9.3: DONE, 2.0.0: DONE
Priority:	Normal	
Assignee:	usa (Usaku NAKAMURA)	
Target version:		
ruby -v:	ruby 2.1.0dev (2013-12-13 trunk 44170) [i386-mswin32_110]	
Description		
Ruby 2.1 (trunk) 2.0 and 1.9.3 both has a bug to retrieve exception. In the following code, opened socket is always closed. <pre>require 'socket' ai = Addrinfo.tcp(nil, 12345) begin raise rescue p ai.listen #=> #Socket:(closed) end</pre> This is because in socket.rb, there are such error handling code: creates a listening socket bound to self. <pre>def listen(backlog=Socket::SOMAXCONN) sock = Socket.new(self.pfamily, self.socktype, self.protocol) begin sock.ipv6only! if self.ipv6? sock.setsockopt(:SOCKET, :REUSEADDR, 1) sock.bind(self) sock.listen(backlog) if block_given? yield sock else sock end ensure ### THIS LINE CLOSE `sock` every time when \$! is not nil sock.close if !sock.closed? && (block_given? \$!) end end</pre> There are similar code in socket.rb. akr-san already knows this issue. This ticket is to note issues. We realize this issue because webrick use this feature from 2.1. The following code no longer works on 2.1. <pre>begin require 'xyzy' # something like webrick rescue LoadError require 'webrick' end server = WEBrick::HTTPServer.new(Port: 12345)</pre> Because \$! is an instance of LoadError.		

Associated revisions

Revision 4fd53e476e493630a140edc085c71f2670d74942 - 12/13/2013 04:11 PM - akr (Akira Tanaka)

- ext/socket/lib/socket.rb: Don't test \$! in "ensure" clause because it may be set before the body.
Reported by ko1 and mrkn. [ruby-core:59088] [Bug #9247]
- lib/cgi/core.rb: Ditto.
- lib/drb/ssl.rb: Ditto.

git-svn-id: svn+ssh://ci.ruby-lang.org/ruby/trunk@44184 b2dd03c8-39d4-4d8f-98ff-823fe69b080e

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Revision ad5757276d48761ff9e071991d3957f75ce2d4b4 - 12/24/2013 03:37 PM - nagachika (Tomoyuki Chikanaga)

merge revision(s) 44184: [Backport #9247]

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git-svn-id: svn+ssh://ci.ruby-lang.org/ruby/branches/ruby_2_0_0@44390 b2dd03c8-39d4-4d8f-98ff-823fe69b080e

Revision ad575727 - 12/24/2013 03:37 PM - nagachika (Tomoyuki Chikanaga)

merge revision(s) 44184: [Backport #9247]

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Revision 75c84da28c5e9169a4d48efd1a542d8278b1d436 - 01/30/2014 12:04 PM - U.Nakamura

merge revision(s) 44184: [Backport #9247]

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* lib/drb/ssl.rb: Ditto.
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git-svn-id: svn+ssh://ci.ruby-lang.org/ruby/branches/ruby_1_9_3@44767 b2dd03c8-39d4-4d8f-98ff-823fe69b080e

merge revision(s) 44184: [Backport #9247]

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History

#1 - 12/14/2013 12:19 AM - mrkn (Kenta Murata)

- Description updated

I think the following code can reproduce the full cases:

<https://gist.github.com/mrkn/7945798>

```
require 'socket'
```

Addrinfo#connect_internal

```
puts "(1) Addrinfo#connect (connect_internal)"
begin
  raise
rescue
  p Addrinfo.tcp('www.ruby-lang.org', 80).connect
end
```

Addrinfo.bind

```
puts "\n(2) Addrinfo#bind"
begin
  ai = Addrinfo.tcp(nil, 11229)
  raise
rescue
  begin
    p ai.bind
  end
end
```

Addrinfo.listen

```
puts "\n(3) Addrinfo#listen"
begin
  ai = Addrinfo.tcp(nil, 11228)
  raise
rescue
  begin
    p ai.listen
  end
end
```

Socket.ip_sockets_port0

```
puts "\n(4) Socket.tcp_server_sockets (ip_sockets_port0)"
begin
  raise
rescue
  begin
    Socket.tcp_server_sockets(0)
  rescue IOError
    $stderr.puts "#{$.class}: #{!}", $!.backtrace
  end
end
```

#2 - 12/14/2013 12:19 AM - mrkn (Kenta Murata)

- Status changed from Open to Assigned

#3 - 12/14/2013 01:11 AM - akr (Akira Tanaka)

- Status changed from Assigned to Closed

- % Done changed from 0 to 100

This issue was solved with changeset r44184.
Koichi, thank you for reporting this issue.
Your contribution to Ruby is greatly appreciated.
May Ruby be with you.

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#4 - 12/24/2013 11:14 AM - ko1 (Koichi Sasada)

- Backport changed from 1.9.3: UNKNOWN, 2.0.0: UNKNOWN to 1.9.3: REQUIRED, 2.0.0: REQUIRED

#5 - 12/24/2013 11:15 AM - ko1 (Koichi Sasada)

- Status changed from Closed to Assigned

- Assignee changed from akr (Akira Tanaka) to nagachika (Tomoyuki Chikanaga)

#6 - 12/25/2013 12:38 AM - nagachika (Tomoyuki Chikanaga)

- Backport changed from 1.9.3: REQUIRED, 2.0.0: REQUIRED to 1.9.3: REQUIRED, 2.0.0: DONE

r44184 was backported to ruby_2_0_0 at r44390.

#7 - 12/25/2013 12:38 AM - nagachika (Tomoyuki Chikanaga)

- Assignee changed from nagachika (Tomoyuki Chikanaga) to usa (Usaku NAKAMURA)

#8 - 01/30/2014 06:17 AM - hsbt (Hiroshi SHIBATA)

- Target version changed from 2.1.0 to 2.2.0

#9 - 01/30/2014 12:08 PM - usa (Usaku NAKAMURA)

- Status changed from Assigned to Closed

- Target version deleted (2.2.0)

- Backport changed from 1.9.3: REQUIRED, 2.0.0: DONE to 1.9.3: DONE, 2.0.0: DONE

backported into ruby_1_9_3 at r44767.

BTW, this problem was fixed before releasing ruby 2.1, so all active branches are now OK.