Ruby master - Feature #11569

Optimize Proc#call

10/05/2015 09:32 PM - ko1 (Koichi Sasada)

Status: Closed
Priority: Normal
Assignee: ko1 (Koichi Sasada)
Target version: 

Description

Some years ago, I added optimized Proc#call that skips construction of a method frame for Proc#call and call block directly. That time, test-all shows some failures.

However, I tried it now it doesn't show any errors.
So that I will enable it.

This change introduces incompatibilities.

(1) Backtrace doesn't show Proc#call line.

```
->{
  puts caller(0)
}.call
```

# current
test.rb:4:in `block in <main>'
test.rb:5:in `call'
test.rb:5:in `<main>'

# optimized
../../trunk/test.rb:4:in `block in <main>'
../../trunk/test.rb:5:in `<main>'

(2) TracePoint ignores Proc#call call.

```
TracePoint.new(:a_call){|tp| p tp}.enable
->{".call
```

# current
#<TracePoint:c_call `call'@test.rb:2>
#<TracePoint:b_call@test.rb:2>

# optimized
#<TracePoint:b_call@../../trunk/test.rb:2>

Let me know if you have trouble with these incompatibilities.

BTW, Object#send has already same technique (and behavior with (1), (2)).

Related issues:

Related to Ruby master - Bug #12332: [PATCH] proc.c: fix RDoc of Proc###cal...

Associated revisions

Revision 0018a711 - 10/05/2015 09:34 PM - ko1 (Koichi Sasada)

- proc.c: enable optimization of Proc#call. [Feature #11569]
- NEWS: write about this optimization and incompatibilities.
- test/ruby/test_backtrace.rb: catch up this fix.

git-svn-id: svn+ssh://ci.ruby-lang.org/ruby/trunk@52050 b2dd03c8-39d4-4d8f-98ff-823fe69b080e

Revision 52050 - 10/05/2015 09:34 PM - ko1 (Koichi Sasada)
proc.c: enable optimization of Proc#call. [Feature #11569]
NEWS: write about this optimization and incompatibilities.
test/ruby/test_backtrace.rb: catch up this fix.

Revision 52050 - 10/05/2015 09:34 PM - ko1 (Koichi Sasada)

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test/ruby/test_backtrace.rb: catch up this fix.

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Revision 3044a0bc - 05/15/2016 09:11 PM - normal
proc.c: fix RDoc of Proc###/call/yield[]

[Bug #12332]

Since r52050 ("proc.c: enable optimization of Proc#call")
for [Feature #11569], we need to maintain this documentation
in a way RDoc comprehends. This is probably not worth fixing
in RDoc itself since this uses a non-standard internal C API
which is subject to change without notice.

ref:
http://mid.gmane.org/20160429212836.GA16605@dcvr.ybtt.net
http://mid.gmane.org/1461959651.806728.670.51764@mail.rambler.ru
http://blade.nagaokaut.ac.jp/ruby/ruby-talk/435458

Revision 55010 - 05/15/2016 09:11 PM - normalperson (Eric Wong)
proc.c: fix RDoc of Proc###/call/yield[]

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History

#1 - 10/05/2015 09:35 PM - ko1 (Koichi Sasada)
- Status changed from Open to Closed

Applied in changeset r52050.

- proc.c: enable optimization of Proc#call. [Feature #11569]
- NEWS: write about this optimization and incompatibilities.
- test/ruby/test_backtrace.rb: catch up this fix.

#2 - 06/08/2016 05:06 AM - usa (Usaku NAKAMURA)
- Related to Bug #12332: [PATCH] proc.c: fix RDoc of Proc#===/call/yield[] added