Proc auto-splat bug with named arguments

Status: Closed
Priority: Normal
Assignee: nagachika (Tomoyuki Chikanaga)

Description

I'd expect a proc to either do an implicit splat or not, but right now it looks for options before doing the implicit splat. Should it not do it after doing the implicit splat?

I thought that when a proc had an argument list with more than one element, it was the same to call it with a single array argument than with the same array splatted:

Proc{{a, ...} [...]} .call([...]) == Proc{{a, ...} ... } .call([...]) # => Because of implicit splat

But we have currently:

Proc.new{|a, *b, **c| p a, b, c}.call(1,2, bar: 3)
# => 1, [2], {:bar=>3} : OK

Proc.new{|a, *b, **c| p a, b, c}.call([1,2, bar: 3])
# => 1, [2], {:bar=>3}], {}: Expected same as above

Proc.new{|(a, *b), **c| p a, b, c}.call([1,2], bar: 3)
# => 1, [2], {:bar=>3}] : OK

Proc.new{|(a, *b), **c| p a, b, c}.call([1,2, bar: 3])
# => [1, 2], [{:bar=>3}], {}: Expected same as above

As an additional note, this affects some methods of Enumerable when yielding multiple arguments.

For example:

def each; yield 1, 2, bar: 3; end
include Enumerable

each{|a, *b, **c| p a, b, c} # => 1, [2], {:bar => 3}: ok
detect{|a, *b, **c| p a, b, c} # => 1, [2], {:bar => 3}], {}: should be the same, no?

Related issues:
Related to Ruby master - Bug #8457: Function arguments: Is this intended? Closed 05/29/2013

Associated revisions

Revision 06c7ede2 - 06/01/2013 08:21 AM - nobu (Nobuyoshi Nakada)

vm_insnhelper.c: extract keyword arguments after splat

- vm_insnhelper.c (vm_yield_setup_block_args): split single parameter if any keyword arguments exist, and then extract keyword arguments.
  [ruby-core:55203] [Bug #8463]

git-svn-id: svn+ssh://ci.ruby-lang.org/ruby/trunk@41020 b2dd03c8-39d4-4d8f-98ff-823fed69b080e

Revision 41020 - 06/01/2013 08:21 AM - nobu (Nobuyoshi Nakada)

vm_insnhelper.c: extract keyword arguments after splat

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Revision 4a223fb6 - 06/01/2013 08:25 AM - nobu (Nobuyoshi Nakada)
compile.c: not simple if keyword args

compile.c (iseq_set_arguments): not a simple single argument if any keyword arguments exist. [ruby-core:55203] [Bug #8463]

git-svn-id: svn+ssh://ci.ruby-lang.org/ruby/trunk@41021 b2dd03c8-39d4-4d8f-98ff-823fe69b080e

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Revision 1135cc35 - 06/12/2013 03:03 PM - nagachika (Tomoyuki Chikanaga)
merge revision(s) 41019,41020,41021,41041,41045,41057: [Backport #8463]

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vm_insnhelper.c: add comments

* vm_insnhelper.c (vm_yield_setup_block_args): break a long line and
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add comments. remove useless code.

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  keyword arguments exist.  [ruby-core:55203] [Bug #8463]

* vm_insnhelper.c (vm_yield_setup_block_args): partially revert r41019.
  The code is not useless.

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  if any keyword arguments exist, and then extract keyword arguments.
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This issue was solved with changeset r41021.

Marc-Andre, thank you for reporting this issue.
Your contribution to Ruby is greatly appreciated.
May Ruby be with you.

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History

#1 - 06/01/2013 05:21 PM - nobu (Nobuyoshi Nakada)
- Status changed from Open to Closed
- % Done changed from 0 to 100

This issue was solved with changeset r41020.
Marc-Andre, thank you for reporting this issue.
Your contribution to Ruby is greatly appreciated.
May Ruby be with you.

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#2 - 06/01/2013 05:23 PM - nobu (Nobuyoshi Nakada)
- Description updated
- Status changed from Closed to Open
- % Done changed from 100 to 50

#3 - 06/01/2013 05:25 PM - nobu (Nobuyoshi Nakada)
- % Done changed from 50 to 100
- Status changed from Open to Closed

This issue was solved with changeset r41021.
Marc-Andre, thank you for reporting this issue. 
Your contribution to Ruby is greatly appreciated. 
May Ruby be with you.

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#4 - 06/01/2013 05:28 PM - nobu (Nobuyoshi Nakada)
- Backport changed from 1.9.3: UNKNOWN, 2.0.0: UNKNOWN to 2.0.0: REQUIRED

#5 - 06/12/2013 11:42 PM - nagachika (Tomoyuki Chikanaga)
- Tracker changed from Bug to Backport
- Project changed from Ruby master to Backport200
- Category deleted (core)
- Status changed from Closed to Assigned
- Assignee changed from nobu (Nobuyoshi Nakada) to nagachika (Tomoyuki Chikanaga)

#6 - 06/13/2013 12:03 AM - nagachika (Tomoyuki Chikanaga)
- Status changed from Assigned to Closed

This issue was solved with changeset r41262.
Marc-Andre, thank you for reporting this issue. 
Your contribution to Ruby is greatly appreciated. 
May Ruby be with you.

merge revision(s) 41019,41020,41021,41041,41045,41057: [Backport #8463]

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* vm_insnhelper.c (vm_yield_setup_block_args): break a long line and add comments. remove useless code.
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