DRb remote method call with keyword argument occurs warning message of deprecated on Ruby 2.7.0, and fails on Ruby 2.8.0dev

On Ruby 2.7.0 (ruby 2.7.0p0 (2019-12-25 revision 647ee6f091) [x86_64-linux]), DRb remote method call with keyword argument occurs warning message of deprecated.

On Ruby snapshot (ruby 2.8.0dev (2020-02-14 master 78282d4655) [x86_64-linux]), DRb remote method call with keyword argument fails.

Test Script:

```ruby
#!/usr/bin/env ruby
require 'drb'
require 'securerandom'
require 'test/unit'

def make_drbunix_uri
  "drbunix:/tmp/#{File.basename($0, '.rb')}.#{SecureRandom.uuid}"
end

DRb.start_service(make_drbunix_uri)

class DRbRemoteMethodCallTest < Test::Unit::TestCase
  class Example
    def ping
      :pong
    end

    def foo(test: 'default')
      test
    end

    def bar(test: 'default')
      yield(test)
    end

    def wait_server(remote_object)
      begin
        remote_object.ping
        rescue DRb::DRbConnError
          sleep(0.1)
          retry
      end
    end

    def setup
      @uri = make_drbunix_uri
      @pid = fork{
        DRb.start_service(@uri, Example.new)
        DRb.thread.join
      }
    end
  end
end
```

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@remote_object = DRbObject.new_with_uri(@uri)
wait_server(@remote_object)
end

def teardown
  Process.kill(:TERM, @pid)
  Process.wait
end

test 'pass keyword argument to remote method call' do
  assert_equal('halo', @remote_object.foo(test: 'halo'))
end

test 'pass keyword argument to remote method call with block' do
  assert_equal('halo', @remote_object.bar(test: 'halo') {|t| t })
end
end

Output (ruby 2.7.0p0 (2019-12-25 revision 647ee6f091) [x86_64-linux]):

$ ruby test_drb_kw_args.rb -v
Loaded suite test_drb_kw_args
Started
DRbRemoteMethodCallTest:
  test: pass keyword argument to remote method call:
    /usr/local/lib/ruby/2.7.0/drb/drb.rb:1690: warning: Using the last argument as keyword parameters is deprecated; maybe ** should be added to the call
test_drb_kw_args.rb:19: warning: The called method `foo' is defined here
.: (0.115401)
  test: pass keyword argument to remote method call with block:
    /usr/local/lib/ruby/2.7.0/drb/invokemethod.rb:15: warning: Using the last argument as keyword parameters is deprecated; maybe ** should be added to the call
test_drb_kw_args.rb:23: warning: The called method `bar' is defined here
.: (0.114446)
Finished in 0.2303479 seconds.
2 tests, 2 assertions, 0 failures, 0 errors, 0 pendings, 0 omissions, 0 notifications
100% passed
--------------------------------------------------------------------------------------------------
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8.68 tests/s, 8.68 assertions/s

Output (ruby 2.8.0dev (2020-02-14 master 78282d4655) [x86_64-linux]):

$ ruby test_drb_kw_args.rb -v
Loaded suite test_drb_kw_args
Started
DRbRemoteMethodCallTest:
  test: pass keyword argument to remote method call:
    /usr/local/lib/ruby/2.8.0/drb/drb.rb:1690: warning: Using the last argument as keyword parameters is deprecated; maybe ** should be added to the call
test_drb_kw_args.rb:19: warning: The called method `foo' is defined here
.: (0.115401)
  test: pass keyword argument to remote method call with block:
    /usr/local/lib/ruby/2.8.0/drb/invokemethod.rb:15: warning: Using the last argument as keyword parameters is deprecated; maybe ** should be added to the call
test_drb_kw_args.rb:23: warning: The called method `bar' is defined here
.: (0.114446)
Finished in 0.2303479 seconds.
2 tests, 2 assertions, 0 failures, 0 errors, 0 pendings, 0 omissions, 0 notifications
100% passed
--------------------------------------------------------------------------------------------------
----------------------------------------------------
8.68 tests/s, 8.68 assertions/s
Error: test: pass keyword argument to remote method call (DRbRemoteMethodCallTest): ArgumentError: wrong number of arguments (given 1, expected 0)

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test: pass keyword argument to remote method call with block:
E

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test_drb_kw_args.rb:58:in `block in <class:DRbRemoteMethodCallTest>'
(test_drb_kw_args/cdf13d27-0876-4eb7-ae7d-b5a79c6b58b8) /usr/local/lib/ruby/2.8.0/drb
.rb:1730:in `block in main_loop'
(test_drb_kw_args/cdf13d27-0876-4eb7-ae7d-b5a79c6b58b8) /usr/local/lib/ruby/2.8.0/drb
.rb:1730:in `loop'
(test_drb_kw_args/cdf13d27-0876-4eb7-ae7d-b5a79c6b58b8) /usr/local/lib/ruby/2.8.0/drb
.rb:1734:in `block (2 levels) in main_loop'
(test_drb_kw_args/cdf13d27-0876-4eb7-ae7d-b5a79c6b58b8) /usr/local/lib/ruby/2.8.0/drb
.rb:1644:in `perform'
(test_drb_kw_args/cdf13d27-0876-4eb7-ae7d-b5a79c6b58b8) /usr/local/lib/ruby/2.8.0/drb
/invokemethod.rb:15:in `perform_with_block'
(test_drb_kw_args/cdf13d27-0876-4eb7-ae7d-b5a79c6b58b8) test_drb_kw_args.rb:23:in `ba
Error: test: pass keyword argument to remote method call with block (DRbRemoteMethodCallTest): ArgumentError: wrong number of arguments (given 1, expected 0)

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Finished in 0.031537836 seconds.

2 tests, 0 assertions, 0 failures, 2 errors, 0 pendings, 0 omissions, 0 notifications
0% passed

63.42 tests/s, 0.00 assertions/s

Expected Output (ruby 2.6.5p114 (2019-10-01 revision 67812) [x86_64-linux]):

$ ruby test_drb_kw_args.rb -v
Loaded suite test_drb_kw_args
Started
DRbRemoteMethodCallTest:
  test: pass keyword argument to remote method call:       .: (0.107467)
  test: pass keyword argument to remote method call with block: .: (0.109916)
Finished in 0.221072125 seconds.

2 tests, 2 assertions, 0 failures, 0 errors, 0 pendings, 0 omissions, 0 notifications
100% passed

9.05 tests/s, 9.05 assertions/s

Associated revisions
Revision fb472ca7 - 02/15/2020 07:27 AM - mame (Yusuke Endoh)
lib/drb/drb.rb: Use ruby2_keywords for keyword separation

[Bug #16634]
#1 - 02/15/2020 07:27 AM - mame (Yusuke Endoh)
- Status changed from Open to Closed

Applied in changeset git|fb472ca7adbaceb35aae1b3a6b949720ffcf9eb53.

lib/drb/drb.rb: Use ruby2_keywords for keyword separation

[Bug #16634]

#2 - 02/15/2020 07:28 AM - mame (Yusuke Endoh)

Thanks! Fixed.

#3 - 02/15/2020 07:30 AM - mame (Yusuke Endoh)

- Backport changed from 2.5: UNKNOWN, 2.6: UNKNOWN, 2.7: UNKNOWN to 2.5: DONTNEED, 2.6: DONTNEED, 2.7: REQUIRED