Forwardable#def_delegator warns and is incorrect on trunk when passed keyword arguments

11/11/2019 09:20 AM - Eregon (Benoit Daloze)

Status: Closed
Priority: Normal
Assignee:
Target version:
ruby -v:
ruby 2.7.0dev (2019-11-10T05:56:38Z
master 4570284ce1) [x86_64-linux]
Backport:
2.5: UNKNOWN, 2.6: UNKNOWN

Description
Because it uses *args, &block-style delegation.

```ruby
require 'forwardable'

class C
  extend Forwardable
  def_delegator :self, :target, :delegate
  def target(*args, **kwargs)
    [args, kwargs]
  end
end
```

del.rb (with &block):

```ruby
C.new.target(1, b: 2)  # => [[1], {:b=>2}]
C.new.delegate(1, b: 2)
# ruby-trunk/lib/ruby/2.7.0/forwardable.rb:231: warning: The last argument is used as the keyword parameter
# del.rb:6: warning: for `target' defined here
# => [[1], {:b=>2}]
```

del.rb (with &{}):

```ruby
C.new.target({}, **{})  # => [[]], {}
C.new.delegate({}, **{})
# ruby-trunk/lib/ruby/2.7.0/forwardable.rb:231: warning: The last argument is used as the keyword parameter
# del.rb:6: warning: for `target' defined here
# => [[]], {}
```

Which also illustrates we're missing important tests/specs for Forwardable.

History

#1 - 11/11/2019 06:06 PM - jeremyevans0 (Jeremy Evans)

forwardable should be fixed to use ruby2_keywords. I'm guessing the reason this wasn't done initially is because I worked on forwardable keyword argument support before I developed ruby2_keywords.

#2 - 11/12/2019 10:11 AM - Eregon (Benoit Daloze)

2.6 behaves like:

```ruby
C.new.target({}, **{})  # => [[]], {}
C.new.delegate({}, **{})
```

So I'm not sure what's "correct" for that last case.

jeremyevans0 (Jeremy Evans) wrote:

forwardable should be fixed to use ruby2_keywords.

Right, or ... maybe.

I'm guessing the reason this wasn't done initially is because I worked on forwardable keyword argument support before I developed ruby2_keywords.
Didn't forwardable always support keyword arguments since it just did (*args, &block) delegation?

#3 - 11/17/2019 11:41 PM - jeremyevans0 (Jeremy Evans)
Looks like the forwardable keyword argument support was never merged. My previous attempt, developed before ruby2_keywords, added **kw to method definition and method calls on 2.7+. I've updated the pull request to use ruby2_keywords: https://github.com/ruby/forwardable/pull/5. One failing CI test, but it looks unrelated. This should probably be merged soon, before preview3.

#4 - 12/04/2019 01:06 AM - jeremyevans0 (Jeremy Evans)
- Status changed from Open to Closed

Fixed by 9fa0166a580e72adf02562b7d60672c6c362d4b7.