This patch makes Marshal.dump and load aware of ruby2_keywords flag.

https://github.com/ruby/ruby/pull/2830

def bar(key:)
  key
end

ruby2_keywords def foo(*args)
  args = Marshal.load(Marshal.dump(args))
  bar(*args)
end

foo(key: 42) #=> 42

Honestly, I'm not fully convinced if this is really needed. It would be helpful for applications and libraries that serializes the whole arguments by using Marshal, e.g., drb. (Currently, drb does not support keyword separation.) But I'm unsure how many applications does so; ActiveJob and Sidekiq use their own dedicated serialization mechanism based on JSON. This patch does not help them, and they should use #16486 to support ruby2_keywords flag. I'd like to hear opinions.

Associated revisions

Revision b23fd59c - 01/17/2020 08:20 AM - mame (Yusuke Endoh)
marshalt.c: Support dump and load of a Hash with the ruby2_keywords flag

It is useful for a program that dumps and load arguments (like drb). In future, they should deal with both positional arguments and keyword ones explicitly, but until ruby2_keywords is deprecated, it is good to support the flag in marshal.

The implementation is similar to String's encoding; it is dumped as a hidden instance variable.

[Feature #16501]

History

#1 - 01/11/2020 11:07 AM - Eregon (Benoit Daloze)
Makes sense to me that Marshal knows how to preserve that flag.
(Sidekiq used Marshal in previous versions, but switched to a manual copy for efficiency)

#2 - 01/16/2020 05:30 AM - matz (Yukihiro Matsumoto)
I agree. Accepted.

Matz.

#3 - 01/17/2020 08:20 AM - mame (Yusuke Endoh)
- Status changed from Open to Closed

Applied in changeset git|b23fd59cbb3f097bcd559d0c85a86ff7a1eeeb7e.
marshal.c: Support dump and load of a Hash with the ruby2_keywords flag

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In future, they should deal with both positional arguments and keyword
ones explicitly, but until ruby2_keywords is deprecated, it is good to
support the flag in marshal.

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hidden instance variable.

[Feature #16501]

#4 - 03/31/2020 12:06 PM - mame (Yusuke Endoh)

- Backport set to 2.5: DONTNEED, 2.6: DONTNEED, 2.7: REQUIRED
- Tracker changed from Feature to Bug

This might not be a bug, but the change is needed for #166342339be74e737b4c5f330f845af2e7db0c7450e1, so please backport to 2.7.