

## Ruby - Bug #16906

### Calling Thread#thread\_variable? in IRB sometimes produce wrong result

05/22/2020 02:38 AM - tyok (Mohammad Satrio)

<b>Status:</b> Closed	
<b>Priority:</b> Normal	
<b>Assignee:</b>	
<b>Target version:</b>	
<b>ruby -v:</b> ruby 2.7.1p83 (2020-03-31 revision a0c7c23c9c) [x86_64-darwin17]	<b>Backport:</b> 2.5: UNKNOWN, 2.6: UNKNOWN, 2.7: UNKNOWN

#### Description

Consider this script:

```
Thread.current.thread_variable_set("ab", 12)
puts Thread.current.thread_variable?("ab")
puts Thread.current.thread_variable?(:ab)
puts Thread.current.thread_variable?("ab")
```

When I put the script above in a file and run it, I got three true as expected:

```
bash-3.2$ ruby test.rb
true
true
true
```

But when I copy each line to IRB, I got false on the first check:

```
bash-3.2$ irb
irb(main):001:0> Thread.current.thread_variable_set("ab", 12)
=> 12
irb(main):002:0> puts Thread.current.thread_variable?("ab")
false
=> nil
irb(main):003:0> puts Thread.current.thread_variable?(:ab)
true
=> nil
irb(main):004:0> puts Thread.current.thread_variable?("ab")
true
=> nil
```

I expect it to print three true in IRB, just like when I run the script via file.

#### Associated revisions

##### Revision 4e1f2283 - 05/26/2020 04:38 AM - jeremyevans (Jeremy Evans)

Make Thread#thread\_variable? similar to #thread\_variable\_get

Don't use rb\_check\_id, which only works for pinned symbols.  
Switch inadvertent creation test for thread\_variable? to only check for pinned symbols, same as thread\_variable\_get and thread\_variable\_set.

Make key variable name in thread\_local\_set match thread\_local\_get and thread\_variable?.

Fixes [Bug #16906]

#### History

##### #1 - 05/26/2020 02:34 AM - jeremyevans0 (Jeremy Evans)

I can confirm this bug. It's because thread\_variable? uses different code than thread\_variable\_get and thread\_variable\_set. Removing the rb\_check\_id and switching ID2SYM to rb\_to\_symbol fixes it. I've added a pull request for this, and will merge if it passes CI:

<https://github.com/ruby/ruby/pull/3145>

## #2 - 05/26/2020 02:57 AM - jeremyevans0 (Jeremy Evans)

That approach didn't work as there are tests for inadvertent symbol creation. To fix that, we need to force ID creation in `thread_local_set`. I've updated the pull request to use that approach, and made `thread_variable_get` use the same inadvertent symbol creation check as `thread_variable?`.

## #3 - 05/26/2020 04:38 AM - jeremyevans (Jeremy Evans)

- Status changed from Open to Closed

Applied in changeset [git|4e1f2283b432e833bd4e6f7724ba0496760e68e8](https://github.com/ruby/ruby/commit/4e1f2283b432e833bd4e6f7724ba0496760e68e8).

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Make `Thread#thread_variable?` similar to `#thread_variable_get`

Don't use `rb_check_id`, which only works for pinned symbols.  
Switch inadvertent creation test for `thread_variable?` to only check for pinned symbols, same as `thread_variable_get` and `thread_variable_set`.

Make key variable name in `thread_local_set` match `thread_local_get` and `thread_variable?`.

Fixes [Bug [#16906](#)]

## #4 - 08/17/2021 10:55 PM - greneholt (Connor McKay)

This needs to be backported to 2.7.x. It wasn't fixed in 2.7.4.

### Files

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test.rb	173 Bytes	05/22/2020	tyok (Mohammad Satrio)
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