Ruby - Bug #19896

Ruby method refinement memory leak

09/20/2023 06:05 PM - HParker (Adam Hess)

Status: Closed		
Priority: Normal		
Assignee:		
Target version:		
ruby -v:	Backport:	3.0: UNKNOWN, 3.1: REQUIRED, 3.2:
uby v.	Buckport.	DONE
Description		
GitHub pull request: https://github.com/ruby/ruby/pull/8487		
When method redefinitions happen, sometimes the final definition does not get cleaned up,		
Reproducable with the same script from: https://bugs.ruby-lang.org/issues/19894		
10.times do		
20_000.times do		
<pre>\$c = Class.new do</pre>		
def foo; end end		
\$m = Module.new do		
refine \$c do def foo; end		
end		
end		
Class.new do		
using \$m		
<pre>def initialize o = \$c.new</pre>		
o.method(:foo).unbind		
end		
end.new		
end		
puts `ps -o rss= -p #{\$\$}`		
end		
before:		
Delore.		
19792		
20944		
22224 23504		
24784		
26064		
27344		
28624 29776		
31056		
after:		
18560		
18560		
18560		
18560		
18560		

Associated revisions

Revision 8b236e0c66da8f92e9fc33de66cfbc8e4b0c0763 - 09/22/2023 01:44 PM - HParker (Adam Hess)

[Bug #19896]

fix memory leak in vm_method

This introduces a unified reference_count to clarify who is referencing a method. This also allows us to treat the refinement method as the def owner since it counts itself as a reference

Co-authored-by: Peter Zhu peter@peterzhu.ca

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Revision 8b236e0c - 09/22/2023 01:44 PM - HParker (Adam Hess)

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Revision 97b7070ebd5493de8d3a6a9b0ecc91bef5068d3f - 09/30/2023 04:46 AM - nagachika (Tomoyuki Chikanaga)

merge revision(s) 8b236e0c66da8f92e9fc33de66cfbc8e4b0c0763: [Backport #19896]

```
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  Co-authored-by: Peter Zhu <peter@peterzhu.ca>
                        | 4 +-
   qc.c
                           6 +--
   method.h
                        | 6 +--
   rjit_c.rb
   test/ruby/test_module.rb | 4 +-
   vm_insnhelper.c |
                            2 +-
                        vm_method.c
   6 files changed, 54 insertions(+), 73 deletions(-)
```

Revision 97b7070ebd5493de8d3a6a9b0ecc91bef5068d3f - 09/30/2023 04:46 AM - nagachika (Tomoyuki Chikanaga)

merge revision(s) 8b236e0c66da8f92e9fc33de66cfbc8e4b0c0763: [Backport #19896]

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Revision 97b7070e - 09/30/2023 04:46 AM - nagachika (Tomoyuki Chikanaga)

merge revision(s) 8b236e0c66da8f92e9fc33de66cfbc8e4b0c0763: [Backport #19896]

[Bug #19896] fix memory leak in vm_method This introduces a unified reference_count to clarify who is referencing a method. This also allows us to treat the refinement method as the def owner since it counts itself as a reference Co-authored-by: Peter Zhu <peter@peterzhu.ca> 1 gc.c 4 +-6 +-method.h rjit_c.rb 6 +--test/ruby/test_module.rb | 4 +-2 +vm_insnhelper.c _____ vm method.c 6 files changed, 54 insertions(+), 73 deletions(-)

History

#1 - 09/20/2023 06:57 PM - peterzhu2118 (Peter Zhu)

- Backport changed from 3.0: UNKNOWN, 3.1: UNKNOWN, 3.2: UNKNOWN to 3.0: UNKNOWN, 3.1: REQUIRED, 3.2: REQUIRED

#2 - 09/22/2023 01:58 PM - HParker (Adam Hess)

- Status changed from Open to Closed

Applied in changeset git|8b236e0c66da8f92e9fc33de66cfbc8e4b0c0763.

[Bug <u>#19896</u>]

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Co-authored-by: Peter Zhu peter@peterzhu.ca

#3 - 09/30/2023 07:07 AM - nagachika (Tomoyuki Chikanaga)

- Backport changed from 3.0: UNKNOWN, 3.1: REQUIRED, 3.2: REQUIRED to 3.0: UNKNOWN, 3.1: REQUIRED, 3.2: DONE

ruby_3_2 97b7070ebd5493de8d3a6a9b0ecc91bef5068d3f merged revision(s) 8b236e0c66da8f92e9fc33de66cfbc8e4b0c0763.