

Ruby master - Feature #12747

Add TracePoint#callee_id

09/10/2016 06:36 AM - ktsj (Kazuki Tsujimoto)

Status:	Closed
Priority:	Normal
Assignee:	ko1 (Koichi Sasada)
Target version:	
Description	
Abstract	
<p>I propose to add TracePoint#callee_id which returns the called name of the method.</p>	
<pre>def m end alias am m TracePoint.new(:call) do tp p [tp.method_id, tp.callee_id] #=> [:m, :am] end.enable do am end</pre>	
Background	
<p>We can get callee id by tp.binding.eval('__callee__'), but it is slow(10x~) and can't get callee id of CFUNC.</p>	
<pre>class Object alias aitself itself end TracePoint.new(:c_call) do tp p [tp.method_id, tp.binding.eval('__callee__')] #=> [:itself, nil] end.enable do aitself end</pre>	
Implementation	
<p>I attached 2 patches.</p>	
<ul style="list-style-type: none">• 0001-TracePoint-method_id-should-return-method_id-not-cal.patch<ul style="list-style-type: none">◦ Now, TracePoint#method_id returns not only method id(__method__) but callee id. This patch makes TracePoint#method_id return method id always, so it introduces some incompatibility.• 0002-Add-TracePoint-callee_id.patch<ul style="list-style-type: none">◦ Add TracePoint#callee_id.	
Usecase	
<p>power_assert gem wants this method to get column number of each method calls.</p>	

Associated revisions

Revision 8004ad33 - 11/05/2016 01:15 PM - ktsj (Kazuki Tsujimoto)

- eval.c, method.h, proc.c, vm.c, vm_eval.c, vm_inshelper.c, vm_method.c:
TracePoint#method_id should return method_id, not callee_id.

[ruby-core:77241] [Feature #12747]

- test/ruby/test_settracefunc.rb: change accordingly.

git-svn-id: svn+ssh://ci.ruby-lang.org/ruby/trunk@56592 b2dd03c8-39d4-4d8f-98ff-823fe69b080e

Revision 56592 - 11/05/2016 01:15 PM - ktsj (Kazuki Tsujimoto)

- eval.c, method.h, proc.c, vm.c, vm_eval.c, vm_inshelper.c, vm_method.c:
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- test/ruby/test_settracefunc.rb: change accordingly.

Revision 9cbd6ee0 - 11/05/2016 01:15 PM - ktsj (Kazuki Tsujimoto)

- vm_trace.c (tracepoint_attr_callee_id, rb_tracearg_callee_id):
add TracePoint#callee_id. [ruby-core:77241] [Feature #12747]
- cont.c, eval.c, gc.c, include/ruby/intern.h, insns.def, thread.c,
vm.c, vm_backtrace.c, vm_core.h, vm_eval.c, vm_inshelper.c, vm_trace.c: ditto.
- test/ruby/test_settracefunc.rb: tests for above.

git-svn-id: svn+ssh://ci.ruby-lang.org/ruby/trunk@56593 b2dd03c8-39d4-4d8f-98ff-823fe69b080e

Revision 56593 - 11/05/2016 01:15 PM - ktsj (Kazuki Tsujimoto)

- `vm_trace.c` (`tracepoint_attr_callee_id`, `rb_tracearg_callee_id`):
add `TracePoint#callee_id`. [ruby-core:77241] [Feature #12747]
- `cont.c`, `eval.c`, `gc.c`, `include/ruby/intern.h`, `insns.def`, `thread.c`,
`vm.c`, `vm_backtrace.c`, `vm_core.h`, `vm_eval.c`, `vm_inshelper.c`, `vm_trace.c`: ditto.
- `test/ruby/test_settracefunc.rb`: tests for above.

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- `test/ruby/test_settracefunc.rb`: tests for above.

Revision b16d1968 - 12/04/2016 05:40 AM - ktsj (Kazuki Tsujimoto)

Revert changes on `rb_frame_method_id_and_class()`

r56593 introduced backwards incompatible changes in the API.
[ruby-core:78471] [Feature #12747]

git-svn-id: [svn+ssh://ci.ruby-lang.org/ruby/trunk@56979](https://ci.ruby-lang.org/ruby/trunk@56979) b2dd03c8-39d4-4d8f-98ff-823fe69b080e

Revision 56979 - 12/04/2016 05:40 AM - ktsj (Kazuki Tsujimoto)

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[ruby-core:78471] [Feature #12747]

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Revision f8f026c4 - 03/27/2017 11:25 AM - nagachika (Tomoyuki Chikanaga)

merge revision(s) 56592: [Backport #11964]

```
* eval.c, method.h, proc.c, vm.c, vm_eval.c, vm_inshelper.c, vm_method.c:  
  TracePoint#method_id should return method_id, not callee_id.  
  [ruby-core:77241] [Feature #12747]
```

```
* test/ruby/test_settracefunc.rb: change accordingly.
```

git-svn-id: svn+ssh://ci.ruby-lang.org/ruby/branches/ruby_2_3@58148 b2dd03c8-39d4-4d8f-98ff-823fe69b080e

Revision 58148 - 03/27/2017 11:25 AM - nagachika (Tomoyuki Chikanaga)

merge revision(s) 56592: [Backport #11964]

```
* eval.c, method.h, proc.c, vm.c, vm_eval.c, vm_inshelper.c, vm_method.c:  
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  [ruby-core:77241] [Feature #12747]
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```
* test/ruby/test_settracefunc.rb: change accordingly.
```

History

#1 - 10/11/2016 09:22 AM - shyouhei (Shyouhei Urabe)

- Assignee set to ko1 (Koichi Sasada)
- Status changed from Open to Assigned

#2 - 11/03/2016 04:53 AM - ko1 (Koichi Sasada)

Sorry for late response.

I missed incompatibility.
How about to commit it before next preview and ask feedback from users?

Thank,
Koichi

#3 - 11/05/2016 01:15 PM - ktsj (Kazuki Tsujimoto)

- Status changed from Assigned to Closed

Applied in changeset r56592.

- eval.c, method.h, proc.c, vm.c, vm_eval.c, vm_inshelper.c, vm_method.c:
 TracePoint#method_id should return method_id, not callee_id.
 [ruby-core:77241] [Feature #12747]
- test/ruby/test_settracefunc.rb: change accordingly.

#4 - 11/05/2016 01:17 PM - ktsj (Kazuki Tsujimoto)

Thank you, I committed.

#5 - 12/03/2016 08:50 AM - rhenium (Kazuki Yamaguchi)

r56593 changed the signature of `rb_frame_method_id_and_class()` which is exposed to C extensions. For example, this broke `ruby-prof` gem. Is this intentional?

#6 - 12/03/2016 12:40 PM - ktsj (Kazuki Tsujimoto)

Thanks Yamaguchi-san, good catch.

I'll revert `rb_frame_method_id_and_class`.

Files

0001-TracePoint-method_id-should-return-method_id-not-cal.patch	9.76 KB	09/10/2016	ktsj (Kazuki Tsujimoto)
0002-Add-TracePoint-callee_id.patch	19.4 KB	09/10/2016	ktsj (Kazuki Tsujimoto)