

Ruby master - Feature #15915

`@1` cannot be achieved in meta-programming

06/12/2019 08:55 AM - znz (Kazuhiro NISHIYAMA)

Status:	Open
Priority:	Normal
Assignee:	
Target version:	
Description	
I cannot think of any way to get @1 in meta-programming, so it is hard to inspect it in a debugger.	
<pre>% ruby -e 'proc{@1;binding.local_variable_get("@1").call(1)'} Traceback (most recent call last): 2: from -e:1:in `<main>' 1: from -e:1:in `block in <main>' -e:1:in `local_variable_get': wrong local variable name `@1' for #<Binding:0x00007f952401e490> (NameError)</main></pre>	

History

#1 - 06/12/2019 09:55 AM - sawa (Tsuyoshi Sawada)

What is the use case? And how do you want it to be made possible?

#2 - 06/12/2019 12:13 PM - mame (Yusuke Endoh)

What is the use case?

OP says a debugger. The motivation looks reasonable to me.

And how do you want it to be made possible?

I think it would be technically possible.

If this ticket is accepted, Binding#local_variables should include numbered parameters. It might be good to allow a symbol like :@1.

(I'm negative against numbered parameters themselves, though.)

#3 - 08/14/2019 03:59 AM - hanachin (Seiei Miyagi)

When I debug a proc which use the numbered parameters, I can not inspect the numbered parameters. Because irb use Binding to evaluate input but the numbered parameters can not get from binding.

```
square = -> {
  binding.irb
  @1 * @1
}
square[rand(100)]
```

```
% ruby foo.rb
```

```
From: foo.rb @ line 2 :
```

```
1: square = -> {
=> 2:   binding.irb
  3:   @1 * @1
  4: }
  5: square[rand(100)]
```

```
irb(main):001:0> @1
Traceback (most recent call last):
  3: from foo.rb:5:in `'
  2: from foo.rb:2:in `block in <main>'
  1: from <internal:prelude>:206:in `irb'
```

```
SyntaxError ((irb):1: numbered parameter outside block)
```

I need to give a name to the numbered parameters to inspect value.
It doesn't make sense.

```
square = -> {  
  v = @1  
  binding.irb  
  @1 * @1  
}  
square[rand(100)]
```

#4 - 08/23/2019 04:41 AM - mame (Yusuke Endoh)

- File `local_variable_get-for-numparam.patch` added

Here is an experimental patch.

#5 - 08/23/2019 07:54 AM - sawa (Tsuyoshi Sawada)

- Description updated

- Subject changed from ``@1` cannot get from meta-programming` to ``@1` cannot be achieved in meta-programming`

#6 - 08/23/2019 03:21 PM - nobu (Nobuyoshi Nakada)

I'm negative to add ID_NUMPARAM.

As `rb_is_numparam_id` is not used, and `rb_is_numparam_name` can be implemented without `rb_symname_type`.

Files

<code>local_variable_get-for-numparam.patch</code>	3.61 KB	08/23/2019	mame (Yusuke Endoh)
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