

Ruby - Bug #3316

Kernel#caller returns nil as well

05/19/2010 12:49 PM - no6v (Nobuhiro IMAI)

Status:	Closed	
Priority:	Normal	
Assignee:		
Target version:		
ruby -v:	-	
Description		Backport:
<pre>=begin [ruby-dev:41330] nil trunk branches/ruby_1_9_2 =end</pre>		

History

#1 - 05/19/2010 08:05 PM - mame (Yusuke Endoh)

```
=begin

```

2010 5 19 12:49 Nobuhiro IMAI redmine@ruby-lang.org:

```
[ruby-dev:41330] 
nil 
RDoc
```

```
r21932 ChangeLog
-----
+++ b/vm_eval.c
@@ -1562,7 +1562,7 @@ rb_catch_obj(VALUE tag, VALUE (*func)(), VALUE data)
static VALUE
rb_f_caller(int argc, VALUE *argv)
{
```

```
diff --git a/vm_eval.c b/vm_eval.c
index 2bf640d..d1e6352 100644
--- a/vm_eval.c
+++ b/vm_eval.c
@@ -1562,7 +1562,7 @@ rb_catch_obj(VALUE tag, VALUE (*func)(), VALUE data)
static VALUE
rb_f_caller(int argc, VALUE *argv)
{
```

- VALUE level;
- VALUE level, ary;
int lev;

rb_scan_args(argc, argv, "01", &level);
@@ -1574,7 +1574,9 @@ rb_f_caller(int argc, VALUE *argv)
if (lev < 0)
rb_raise(rb_eArgError, "negative level (%d)", lev);
- return vm_backtrace(GET_THREAD(), lev);
- ary = vm_backtrace(GET_THREAD(), lev);
• if (NIL_P(ary)) ary = rb_ary_new();
• return ary;

```
static int
```

```
--
Yusuke Endoh mame@tsg.ne.jp
```

=end

#2 - 05/19/2010 08:27 PM - mame (Yusuke Endoh)

- Status changed from Open to Closed

- % Done changed from 0 to 100

=begin

This issue was solved with changeset r27895.

Nobuhiro, thank you for reporting this issue.

Your contribution to Ruby is greatly appreciated.

May Ruby be with you.

=end

#3 - 05/20/2010 04:47 AM - no6v (Nobuhiro IMAI)

=begin

~~~~~

From: Yusuke ENDOH <mame\_at\_tsg.ne.jp>

Date: Wed, 19 May 2010 20:05:45 +0900

```
~~~~~ r21932 ~~~~~ChangeLog ~~~~~
~~~~~
~~~~~
~~~~~
```

~~~~~

```
~~~~~caller(0) ~~~~~
~~~~~
```

```
$ ruby1.8 -ve 'p [caller(0), caller(1), caller(2)]'
ruby 1.8.8dev (2010-05-17 revision 26358) [i686-linux]
[["-e:1"], [], nil]
^^^
```

```
$ ruby1.9 -ve 'p [caller(0), caller(1), caller(2)]'
'ruby 1.9.3dev (2010-05-20 trunk 27911) [i686-linux]
[["-e:1:in `'", [], []]
^^
```

caller(0)[start..-1] ~ ~ ~ ~ ~

--

Nobuhiro IMAI nov@yo.rim.or.jp

Key fingerprint = F39E D552 545D 7C64 D690 F644 5A15 746C BD8E 7106

=end

#4 - 05/20/2010 09:58 PM - mame (Yusuke Endoh)

=begin

~~~~~

2010052004:47 Nobuhiro IMAI [nov@yo.rim.or.jp](mailto:nov@yo.rim.or.jp):

```
~~~~~caller(0) ~~~~~
~~~~~
```

```
~~~~~nil ~~~~~
~~~~~
```

```
diff --git a/vm.c b/vm.c
index 084c8c8..ac1d8ed 100644
--- a/vm.c
+++ b/vm.c
@@ -706,19 +706,20 @@ @@ rb_vm_get_sourceline(const rb_control_frame_t *cfp)
}
```

static int

```

-vm_backtrace_each(rb_thread_t *th, int lev, rb_backtrace_iter_func
*iter, void *arg)
+vm_backtrace_each(rb_thread_t *th, int lev, void (*init)(void *),
rb_backtrace_iter_func *iter, void *arg)
{
const rb_control_frame_t *limit_cfp = th->cfp;
const rb_control_frame_t *cfp = (void *) (th->stack + th->stack_size);

    • VALUE file = Qnil;

    • VALUE file = Qnil, *aryp = arg;
      int line_no = 0;

      cfp -= 2;
      while (lev-- >= 0) {

    • if (++limit_cfp >= cfp) {

    • if (++limit_cfp > cfp) {
      return FALSE;
    }
  }

    • if (init) (*init)(arg);
      limit_cfp = RUBY_VM_NEXT_CONTROL_FRAME(limit_cfp);
      if (th->vm->progname) file = th->vm->progname;
      while (cfp > limit_cfp) {
        @@ -747,15 +748,19 @@ vm_backtrace_each(rb_thread_t *th, int lev,
rb_backtrace_iter_func *iter, void *
        return TRUE;
      }

+static void
+vm_backtrace_alloc(void *arg)
+{

    • VALUE *aryp = arg;
    • *aryp = rb_ary_new();
      +}

static int
vm_backtrace_push(void *arg, VALUE file, int line_no, VALUE name)
{
VALUE *aryp = arg;
VALUE bt;

    • if (!*aryp) {
    • *aryp = rb_ary_new();
    • }
      bt = rb_enc_sprintf(rb_enc_compatible(file, name), "%s:%d in `%s'",
RSTRING_PTR(file), line_no, RSTRING_PTR(name));
      rb_ary_push(*aryp, bt);
      @@ -770,7 +775,7 @@ vm_backtrace(rb_thread_t *th, int lev)
      if (lev < 0) {
        ary = rb_ary_new();
      }
    • vm_backtrace_each(th, lev, vm_backtrace_push, &ary);

    • vm_backtrace_each(th, lev, vm_backtrace_alloc, vm_backtrace_push, &ary);
      if (!ary) return Qnil;
      return rb_ary_reverse(ary);
    }

diff --git a/vm_eval.c b/vm_eval.c
index d1e6352..b854efc 100644
--- a/vm_eval.c
+++ b/vm_eval.c
@@ -16,7 +16,7 @@ static inline VALUE rb_vm_set_finish_env(rb_thread_t *th);
static inline VALUE vm_yield_with_cref(rb_thread_t *th, int argc,
const VALUE *argv, const NODE *cref);
static inline VALUE vm_yield(rb_thread_t *th, int argc, const VALUE *argv);
static inline VALUE vm_backtrace(rb_thread_t *th, int lev);
-static int vm_backtrace_each(rb_thread_t *th, int lev,
rb_backtrace_iter_func *iter, void *arg);
+static int vm_backtrace_each(rb_thread_t *th, int lev, void

```

```

(*init)(void *), rb_backtrace_iter_func *iter, void *arg);
static NODE *vm_cref_push(rb_thread_t *th, VALUE klass, int noex,
rb_block_t *blockptr);
static VALUE vm_exec(rb_thread_t *th);
static void vm_set_eval_stack(rb_thread_t *th, VALUE iseqval, const
NODE *cref);
@@ -1574,9 +1574,7 @@ rb_f_caller(int argc, VALUE *argv)
if (lev < 0)
rb_raise(rb_eArgError, "negative level (%d)", lev);

• ary = vm_backtrace(GET_THREAD(), lev);
• if (NIL_P(ary)) ary = rb_ary_new();
• return ary;

• return vm_backtrace(GET_THREAD(), lev);
}

static int
@@ -1598,7 +1596,7 @@ print_backtrace(void *arg, VALUE file, int line,
VALUE method)
void
rb_backtrace(void)
{

• vm_backtrace_each(GET_THREAD(), -1, print_backtrace, stderr);

• vm_backtrace_each(GET_THREAD(), -1, NULL, print_backtrace, stderr);
}

VALUE
@@ -1629,7 +1627,7 @@ rb_thread_backtrace(VALUE thval)
int
rb_backtrace_each(rb_backtrace_iter_func *iter, void *arg)
{

• return vm_backtrace_each(GET_THREAD(), -1, iter, arg);

• return vm_backtrace_each(GET_THREAD(), -1, NULL, iter, arg);
}

/*

--
Yusuke Endoh mame@tsg.ne.jp

=end

```

**#5 - 05/22/2010 12:59 AM - no6v (Nobuhiro IMAI)**

=begin  
□□□□□□

From: Yusuke ENDOH <mame\_at\_tsg.ne.jp>  
Date: Thu, 20 May 2010 21:58:42 +0900

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2010□5□20□4:47 Nobuhiro IMAI [rov@yo.rim.or.jp](mailto:rov@yo.rim.or.jp):

□□□□□□□□ caller(0) □□□□□□□□□□□□□□□□□□□□  
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Key fingerprint = F39E D552 545D 7C64 D690 F644 5A15 746C BD8E 7106

- call-seq:
  - `caller(start=1)` -> Array or nil
  - `caller(start=1)` -> array or nil
  - Returns the current execution stack--an array containing strings in the form `<em>file:line</em>` or `file:line: in`  
*@@ -1544,7 +1544,7 @@ rb\_catch\_obj(VALUE tag, VALUE (\*func)(), VALUE data)*
  - determines the number of initial stack entries to omit from the `result`.
  - Returns +nil+ if *start* is greater than or equal to the size of
  - Returns +nil+ if *start* is greater than the size of
  - current execution stack.

```
@@ -1556,11 +1556,12 @@ rb_catch_obj(VALUE tag, VALUE (*func)(), VALUE data)
```

- [REDACTED]
- [REDACTED]
- [REDACTED]

```

o c(0)    #=> ["prog:2:in `a'", "prog:5:in `b'", "prog:8:in `c'", "prog:10"]
o c(1)    #=> ["prog:5:in `b'", "prog:8:in `c'", "prog:11"]
o c(2)    #=> ["prog:8:in `c'", "prog:12"]
o c(3)    #=> ["prog:13"]
o c(4)    #=> nil

o c(0)    #=> ["prog:2:in `a'", "prog:5:in `b'", "prog:8:in `c'", "prog:10:in `<main>'", "prog:11:in `<main>'", "prog:12:in `<main>'", "prog:13:in `<main>'"]
o c(1)    #=> ["prog:5:in `b'", "prog:8:in `c'", "prog:11:in `<main>'", "prog:12:in `<main>'", "prog:13:in `<main>'"]
o c(2)    #=> ["prog:8:in `c'", "prog:12:in `<main>'", "prog:13:in `<main>'"]
o c(3)    #=> ["prog:13:in `<main>'", "prog:14:in `<main>'"]
o c(4)    #=> []
o c(5)    #=> nil

```

06/15/2025

=end

#6 - 05/25/2010 01:44 AM - mame (Yusuke Endoh)

=begin  
~~~~~

2010052200:59 Nobuhiro IMAI nov@yo.rim.or.jp:

~~~~~1.8 ~~~~~  
~~~~~RDoc ~~~~~

~~~~~

~~~~~

- ~~~~ s/Array/array/
- ~~~~~ in `` ~~~~
- caller(4) ~~~~caller(5) ~~~~

~~~~~

~~~~~

--
Yusuke Endoh mame@tsq.ne.jp

=end

Files

| | | | |
|-------------------|-----------|------------|----------------------|
| caller-rdoc.patch | 993 Bytes | 05/19/2010 | no6v (Nobuhiro IMAI) |
|-------------------|-----------|------------|----------------------|