

Ruby - Bug #5930

source_location of blocks incorrect

01/26/2012 02:15 PM - charlton (Charlton Wang)

Status:	Closed	
Priority:	Normal	
Assignee:	mame (Yusuke Endoh)	
Target version:		
ruby -v:	1.9.2-p136 and newer	
		Backport:
Description		
Similar to bug [ruby-core:27014] (Closed)" href="https://bugs.ruby-lang.org/issues/2427">#2427 but maybe the opposite problem. Newer versions of ruby appear to store the source locations of blocks incorrectly when passed as an argument to a multi-line invocation of a function. Snippet of code below reveals the problem:		
<pre>def foo(*args, &block) p block.source_location end foo(1, 2, 3) do end</pre>		
Under ruby 1.9.1-p243: ["-", 8]		
Under ruby 1.9.2-p136 and newer: ["-", 5]		
It seems with newer versions of ruby, it reports it based on the line on which the function is called instead of where the actual block is. I believe the old behaviour is actually the correct behaviour.		
Charlton		

Associated revisions

Revision 563762f6c54ac7f6ceaae49f7212ab56eb2d2d06 - 04/23/2012 03:23 PM - mame (Yusuke Endoh)

- parse.y (primary): remove wrong "fixpos" that caused incorrect source_location of blocks. [ruby-core:42232] [Bug #5930]
- test/ruby/test_proc.rb: add a test for above.

git-svn-id: svn+ssh://ci.ruby-lang.org/ruby/trunk@35447 b2dd03c8-39d4-4d8f-98ff-823fe69b080e

Revision 563762f6 - 04/23/2012 03:23 PM - mame (Yusuke Endoh)

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History

#1 - 01/26/2012 02:36 PM - charlton (Charlton Wang)

I've verified this behaviour under the following versions:

works: ruby 1.9.1p243 (2009-07-16 revision 24175) [i386-darwin10.4.0]
fails: ruby 1.9.2p136 (2010-12-25 revision 30365) [x86_64-darwin10.4.0]
fails: ruby 2.0.0dev (2012-01-26 trunk 34377) [x86_64-darwin10.8.0]
works: ruby 1.9.1p243 (2009-07-16 revision 24175) [i686-linux]
works: ruby 1.9.1p243 (2009-07-16 revision 24175) [x86_64-linux]
fails: ruby 1.9.2p136 (2010-12-25) [x86_64-linux]

#2 - 02/02/2012 02:53 AM - mame (Yusuke Endoh)

Hello,

2012/1/26 Charlton Wang charlton.wang@gmail.com:

```
def foo(*args, &block)
  p block.source_location
end
```

```
foo(1,
  2,
  3) do
end
```

Under ruby 1.9.1-p243: ["-", 8]

Under ruby 1.9.2-p136 and newer: ["-", 5]

It seems with newer versions of ruby, it reports it based on the line on which the function is called instead of where the actual block is. I believe the old behaviour is actually the correct behaviour.

Do you really like the old behavior? Line 8 points the end of the block. I prefer the beginning (Line 7). IOW, a result I expect is: ["-", 7]

The following patch works for me, and passes test-all, though I'm not sure if the fix is right. I'll commit it if there is no objection.

```
diff --git a/parse.y b/parse.y
index 1ad9d62..428b942 100644
--- a/parse.y
+++ b/parse.y
@@ -2798,7 +2798,6 @@ primary : literal
 /%%%/
 $2->nd_iter = NEW_FCALL($1, 0);
 $$ = $2;
```

- ```
/*%
$$ = method_arg(dispatch1(fcall, $1), arg_new());
$$ = method_add_block($$, $2);
```

```
@@ -2811,7 +2810,6 @@ primary : literal
block_dup_check($1->nd_args, $2);
$2->nd_iter = $1;
$$ = $2;
```

- ```
/*%
$$ = method_add_block($1, $2);
%*/
```

```
diff --git a/test/ruby/test_proc.rb b/test/ruby/test_proc.rb
index 686db84..3deb5c0 100644
--- a/test/ruby/test_proc.rb
+++ b/test/ruby/test_proc.rb
@@ -1059,6 +1059,20 @@ class TestProc < Test::Unit::TestCase
  assert_equal(@@line_of_attr_accessor_source_location_test, lineno)
```

end

- def block_source_location_test(*args, &block)
- block.source_location
- end
- def test_block_source_location
- exp_lineno = **LINE** + 3
- file, lineno = block_source_location_test(1,
- [REDACTED]
- [REDACTED]
- [REDACTED]
- assert_match(/^#{ Regexp.quote(**FILE**) }\$/, file)
- assert_equal(exp_lineno, lineno)
- end
- def test_splat_without_respond_to
- def (obj = Object.new).respond_to?(m,*); false end
- [obj].each do |a, b|

--

Yusuke Endoh mame@tsg.ne.jp

#3 - 02/02/2012 11:17 AM - nobu (Nobuyoshi Nakada)

Yusuke Endoh wrote:

The following patch works for me, and passes test-all,
though I'm not sure if the fix is right. I'll commit
it if there is no objection.

It seems right.

Since brace_block already sets the correct line number, there should not be these fixpos()es.
Please commit it.

#4 - 02/02/2012 01:49 PM - charlton (Charlton Wang)

Yusuke Endoh wrote:

Do you really like the old behavior? Line 8 points
the end of the block. I prefer the beginning (Line 7).
IOW, a result I expect is: ["-", 7]

I think the old behaviour will point you to the first line *after* the do. I agree that line 7 would be better but at least line 8 is deterministic so either 7 or 8
would be preferable to 5.

The following patch works for me, and passes test-all,
though I'm not sure if the fix is right. I'll commit
it if there is no objection.

Thanks for the patch!

Charlton

P.S. The patch works wonderfully. Thanks!

#5 - 03/11/2012 05:21 PM - ko1 (Koichi Sasada)

- Assignee set to mame (Yusuke Endoh)

#6 - 03/18/2012 06:46 PM - shyouhei (Shyouhei Urabe)

- Status changed from Open to Assigned

#7 - 04/24/2012 12:23 AM - mame (Yusuke Endoh)

- Status changed from Assigned to Closed

- % Done changed from 0 to 100

This issue was solved with changeset r35447.
Charlton, thank you for reporting this issue.
Your contribution to Ruby is greatly appreciated.
May Ruby be with you.

- `parse.y` (primary): remove wrong "fixpos" that caused incorrect `source_location` of blocks. [\[ruby-core:42232\]](#) [Bug [#5930](#)]
- `test/ruby/test_proc.rb`: add a test for above.