

Ruby - Bug #20939

When using the parse.y parser, it occurs argument stack underflow (-1) if there is processing after the shareable_constant_value: experimental_everything comment and `C = { \*\*{ k: v } }`

12/10/2024 04:56 AM - ydah (Yudai Takada)

Status:	Closed	
Priority:	Normal	
Assignee:		
Target version:		
ruby -v:	ruby 3.4.0dev (2024-12-10T03:31:47Z master f12e2622c1) [arm64-darwin23]	Backport: 3.1: UNKNOWN, 3.2: UNKNOWN, 3.3: UNKNOWN

Description

The following code will occurs argument stack underflow if it is a parse.y parser.

```
# shareable_constant_value: experimental_everything
C = { **{ k: v } }
p C
```

The following error message is output.

```
ruby 3.4.0dev (2024-12-06T03:32:20Z master 6ccaa37eb3) [arm64-darwin23]
-- raw disasm-----
  trace: 1
0000 putspecialobject      1                (  2)
0002 putobject             :k                (  2)
0004 putself               (  2)
0005 opt_send_without_block <calldata:v, 0>    (  2)
0007 newhash               2                (  2)
0009 newhash               2                (  2)
0011 opt_send_without_block <calldata:make_shareable, 1> (  2)
0013 putspecialobject      3                (  2)
* 0015 setconstant         :C                (  2)
  trace: 1
0017 putself               (  3)
0018 opt_getconstant_path  [:C]              (  3)
0020 opt_send_without_block <calldata:p, 1>    (  3)
0022 leave                 (  3)
-----
-e:2: argument stack underflow (-1)
-e: compile error (SyntaxError)
```

It does not occur in the following cases:

```
# shareable_constant_value: experimental_everything
C = { **{ k: v } }

C = { **{ k: v } }
p C

# shareable_constant_value: experimental_everything
{ **{ k: v } }
p C

# shareable_constant_value: experimental_everything
C = { **{ k: 1 } }
p C
```

This does not occur in Ruby 3.3:

```
❯ ruby --parser=parse.y -v -e '# shareable_constant_value: experimental_everything
C = { **{ foo: bar } }
```

```
p C'
ruby 3.3.6 (2024-11-05 revision 75015d4c1f) [arm64-darwin23]
-e:3:in `
```

History

#1 - 12/13/2024 03:58 PM - tompng (tomoya ishida)

I think the cause is same as <https://bugs.ruby-lang.org/issues/20927>

#2 - 12/26/2024 12:02 PM - ydah (Yudai Takada)

- Status changed from Open to Closed

Thank you. fixed by: <https://github.com/ruby/ruby/pull/12338>