Ruby master - Feature #6353

caller-side **

04/24/2012 10:04 PM - mame (Yusuke Endoh)

<table>
<thead>
<tr>
<th>Status:</th>
<th>Closed</th>
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</thead>
<tbody>
<tr>
<td>Priority:</td>
<td>Normal</td>
</tr>
<tr>
<td>Assignee:</td>
<td>nobu (Nobuyoshi Nakada)</td>
</tr>
<tr>
<td>Target version:</td>
<td>2.0.0</td>
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Description

Relating to keyword argument (#5474), there are some requests for caller-side **. [ruby-core:40518]

```ruby
def foo(k1: 1, k2: 2)
p [k1, k2]
end
h = {k2: "bar"}
foo(k1: "foo", **h)  # <== here
#=> ["foo", "bar"]
```

Marc-Andre explained the use case [ruby-core:41772], and matz agreed with this feature. [ruby-core:41818]

However, it conflicts with power expression when parens are omitted:

```ruby
foo h  # foo(h)? or foo.send("**", h)?
```

Which should it be interpreted?

Anyway, I have no idea to avoid yacc conflict.

Nobu, could you please try to implement it?

--

Yusuke Endoh mame@tsg.ne.jp

Associated revisions

Revision 33809741 - 04/28/2012 09:12 PM - nobu (Nobuyoshi Nakada)

- parse.y (assoc, parser_yylex): add syntax to splat keyword hash. [ruby-core:44591][Feature #6353]
- compile.c (compile_array_): generate keyword splat insns.
- vm.c (m_core_hash_merge_kwd): merge keyword hash into intermediate hash. leftward argument is prior currently.

git-svn-id: svn+ssh://ci.ruby-lang.org/ruby/trunk@35489 b2dd03c8-39d4-4d8f-98ff-823fe69b080e

Revision 35489 - 04/28/2012 09:12 PM - nobu (Nobuyoshi Nakada)

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- vm.c (m_core_hash_merge_kwd): merge keyword hash into intermediate hash. leftward argument is prior currently.
Hi,

I was confused by power expression when parens are omitted:

```
| foo h  # foo(h)? or foo.send("**", h)?
| Which should it be interpreted?
```

It should be interpreted as `*`, i.e.

```
foo a  # foo("a")
foo "a"  # foo.(a)
foo*a  # foo."(a)
```

thus

```
foo h  # foo(h)
foo "h"  # foo.(h)
foo **h  # foo."(h)
```

matz.

#2 - 04/28/2012 01:17 AM - nobu (Nobuyoshi Nakada)

```
=begin
Almost implemented, and another question.
```

What should happen in this case?

```
def foo(k1: 1)
p k1
end
h = {k1: "bar"}
foo(k1: "foo", **h) # <= conflict
```

```
{{k1}} will be {"foo"}, or {"bar"}?  
Or an exception should be raised?
=end
```

#3 - 04/29/2012 06:12 AM - nobu (Nobuyoshi Nakada)

```
- Status changed from Assigned to Closed
- % Done changed from 0 to 100
```

This issue was solved with changeset r35489.

Yusuke, thank you for reporting this issue.

Your contribution to Ruby is greatly appreciated.
May Ruby be with you.

- parse.y (assoc, parser_yylex): add syntax to splat keyword hash. [ruby-core:44591][Feature #6363]
- compile.c (compile_array_): generate keyword splat insns.
- vm.c (m_core_hash_merge_kwd): merge keyword hash into intermediate hash. leftward argument is prior currently.