

Ruby - Bug #21326

Instruction generation differences between parse.y and prism for `def a(x, ...); b(...); end`

05/10/2025 09:57 PM - zenspider (Ryan Davis)

Status:	Closed	
Priority:	Normal	
Assignee:	prism	
Target version:		
ruby -v:	ruby 3.5.0dev	Backport: 3.2: UNKNOWN, 3.3: UNKNOWN, 3.4: UNKNOWN

Description

Diff instructions using:

```
DUMP="puts RubyVM::InstructionSequence.compile(ARGV.first).disasm.gsub(/\d+ /, ' ')"
RUBY="def a(x, ...); b(...); end"
```

```
env -u RUBYOPT \
  diff -U99 \
  <(/build/ruby -v --parser=parse.y -e "$DUMP" "$RUBY" 2>/dev/null) \
  <(/build/ruby -v --parser=prism -e "$DUMP" "$RUBY" 2>/dev/null)
```

shows:

```
--- /dev/fd/63 2025-05-10 14:46:37
+++ /dev/fd/62 2025-05-10 14:46:37
@@ -1,17 +1,18 @@
-ruby 3.5.0dev (2025-05-10T17:32:21Z master 98667f82d2) +GC [arm64-darwin24]
+ruby 3.5.0dev (2025-05-10T17:32:21Z master 98667f82d2) +PRISM +GC [arm64-darwin24]
== disasm: #<ISeq:<compiled>@<compiled>:1 (1,0)-(1,26)>
definemethod          :a, a              ( 1) [Li]
putobject              :a
leave

== disasm: #<ISeq:a@<compiled>:1 (1,0)-(1,26)>
local table (size: 5, argc: 1 [opts: 0, rest: 1, post: 0, block: 3, kw: -1@-1, kwrest: 2])
[ 5] x@0<Arg>    [ 4] "*"@1<AnonRest>[ 3] "*"@2<AnonKwrest>[ 2] "&"@3<Block>[ 1] "..."@4
putself
getlocal_WC_0        "*"@1
-splatarray          false
+splatarray          true
getlocal_WC_0        "*"@2
getblockparamproxy   "&"@3, 0
splatkw
-send                <calldata!mid:b, argc:2, ARGS_SPLAT|ARGS_BLOCKARG|FCALL|KW
_SPLAT>, nil
+splatkw
+send                <calldata!mid:b, argc:2, ARGS_SPLAT|ARGS_SPLAT_MUT|ARGS_BLOCKARG|FCALL|KW_SPLAT>, nil
leave                [Re]
```

PR here: <https://github.com/ruby/ruby/pull/13299>

goes back to at least 3.4.

Associated revisions

Revision 86320a53 - 07/17/2025 10:00 PM - tenderlovemaking (Aaron Patterson)

Fix compilation for forwarding params in Prism

[Bug #21326]

History

#1 - 05/11/2025 03:43 AM - mame (Yusuke Endoh)

- Assignee set to prism

#2 - 05/12/2025 11:16 PM - hsbt (Hiroshi SHIBATA)

- Status changed from Open to Assigned

#3 - 07/17/2025 10:00 PM - tenderlovemaking (Aaron Patterson)

- Status changed from Assigned to Closed

Applied in changeset [git|86320a53002a3adaf35ad7434c70e86747a8b345](#).

Fix compilation for forwarding params in Prism

[Bug [#21326](#)]