

Command-line settings move from parser to compiler

12/01/2023 06:44 PM - kddnewton (Kevin Newton)

Status:	Closed	
Priority:	Normal	
Assignee:		
<p><b>Description</b></p> <p>Right now, when you pass -n, -p, -l, or -a, these options are all passed to the parser to manipulate the parse tree into giving you the desired behavior. For example:</p> <pre>\$ ruby --dump=parsetree -p -e "foo"</pre> <pre>##### ## Do NOT use this node dump for any purpose other than  ## ## debug and research.  Compatibility is not guaranteed. ## #####  # @ NODE_SCOPE (id: 1, line: 1, location: (1,0)-(1,3)) # +- nd_tbl: (empty) # +- nd_args: #     (null node) # +- nd_body: #   @ NODE_WHILE (id: 10, line: 1, location: (1,0)-(1,0)) #   +- nd_state: 1 (while-end) #   +- nd_cond: #       @ NODE_FCALL (id: 9, line: 1, location: (1,0)-(1,0)) #       +- nd_mid: :gets #       +- nd_args: #           @ NODE_LIST (id: 8, line: 1, location: (1,0)-(1,0)) #           +- nd_alen: 1 #           +- nd_head: #               @ NODE_GVAR (id: 7, line: 1, location: (1,0)-(1,0)) #               +- nd_entry: :\$/ #           +- nd_next: #               (null node) #   +- nd_body: #       @ NODE_BLOCK (id: 5, line: 1, location: (1,0)-(1,0)) #       +- nd_head (1): #           @ NODE_VCALL (id: 0, line: 1, location: (1,0)-(1,3))* #           +- nd_mid: :foo #   +- nd_head (2): #       @ NODE_FCALL (id: 4, line: 1, location: (1,0)-(1,0)) #       +- nd_mid: :print #       +- nd_args: #           @ NODE_LIST (id: 3, line: 1, location: (1,0)-(1,0)) #           +- nd_alen: 1 #           +- nd_head: #               @ NODE_GVAR (id: 2, line: 1, location: (1,0)-(1,0)) #               +- nd_entry: :\$_ #           +- nd_next: #               (null node)</pre> <p>Could this mutation be moved into the compiler? That way it could be shared by prism, but also because it would make it less confusing when people are running --dump=parsetree as to why a loop is being inserted.</p>		

History

#1 - 12/01/2023 10:49 PM - nobu (Nobuyoshi Nakada)

Moving -n/-p makes impossible to check break/next/redo in parser.

```
$ ruby -c -p -e break < /dev/null
Syntax OK
```

```
$ ruby -c -e break < /dev/null
-e:1: Invalid break
break
-e: compile error (SyntaxError)
```

**#2 - 12/04/2023 03:27 PM - kddnewton (Kevin Newton)**

I assume in this case that you would still pass the settings into the parser so that it could be aware of it. In looking at `parse.y`, I think this would amount to calling `allow_block_exit` at the start.

**#3 - 12/12/2023 02:36 AM - nobu (Nobuyoshi Nakada)**

Do you mean passing these to both of the parser and the compiler?

**#4 - 12/12/2023 01:32 PM - kddnewton (Kevin Newton)**

I don't think you would have to pass all of the options, I think the only thing you would need to pass is "this is inside a while loop" in order to set up `allow_block_exit` properly.

**#5 - 02/27/2024 03:17 AM - kddnewton (Kevin Newton)**

- *Status changed from Open to Closed*