

Ruby - Bug #21014

Prism doesn't set node_id on iseqs correctly

01/08/2025 12:35 AM - tenderlovemaking (Aaron Patterson)

Status:	Closed	Backport: 3.1: DONTNEED, 3.2: DONTNEED, 3.3: DONTNEED, 3.4: DONE
Priority:	Normal	
Assignee:	prism	
Target version:		
ruby -v:		

Description

Given this code:

```
f = proc { <<END }
  heredoc
END

iseq = RubyVM::InstructionSequence.of(f)
p iseq.to_a[4][:node_id]
```

Output on parse.y:

```
$ ./miniruby --parser=parse.y test.rb
3
```

Output on Prism:

```
$ ./miniruby test.rb
-1
```

I don't expect node IDs on Prism to match parse.y, but I do expect the node id to be a legitimate node id. For example, this program should work:

```
f = proc { <<END }
  heredoc
END

iseq = RubyVM::InstructionSequence.of(f)

require "prism"

node_id = iseq.to_a[4][:node_id]

ast = Prism.parse(File.binread(__FILE__))
p ast.value.breadth_first_search { |node| node.node_id == node_id }
```

Associated revisions

Revision 63723c8d5908569918fb27e070ae5bc9de33c8bd - 01/08/2025 01:08 AM - tenderlovemaking (Aaron Patterson)

Correctly set node_id on iseq location

The iseq location object has a slot for node ids. parse.y was correctly populating that field but Prism was not. This commit populates the field with the ast node id for that iseq

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Revision 9240f01b1fbe5ea4f6a2017d35f8f605f84f0039 - 02/14/2025 01:54 AM - k0kubun (Takashi Kokubun)

merge revision(s) 63723c8d5908569918fb27e070ae5bc9de33c8bd: [Backport #21014]

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Revision 9240f01b - 02/14/2025 01:54 AM - k0kubun (Takashi Kokubun)

merge revision(s) 63723c8d5908569918fb27e070ae5bc9de33c8bd: [Backport #21014]

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History

#1 - 01/08/2025 12:36 AM - tenderlovemaking (Aaron Patterson)

Fix sent here: <https://github.com/ruby/ruby/pull/12527>

#2 - 01/08/2025 01:08 AM - tenderlovemaking (Aaron Patterson)

- Status changed from Open to Closed

Applied in changeset [git|63723c8d5908569918fb27e070ae5bc9de33c8bd](#).

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#3 - 01/11/2025 08:53 PM - kddnewton (Kevin Newton)

- Backport changed from 3.1: UNKNOWN, 3.2: UNKNOWN, 3.3: UNKNOWN, 3.4: UNKNOWN to 3.1: UNKNOWN, 3.2: UNKNOWN, 3.3: UNKNOWN, 3.4: REQUIRED

#4 - 02/14/2025 01:54 AM - k0kubun (Takashi Kokubun)

- Backport changed from 3.1: UNKNOWN, 3.2: UNKNOWN, 3.3: UNKNOWN, 3.4: REQUIRED to 3.1: UNKNOWN, 3.2: UNKNOWN, 3.3: UNKNOWN, 3.4: DONE

ruby_3_4 [9240f01b1fbe5ea4f6a2017d35f8f605f84f0039](#) merged revision(s) [63723c8d5908569918fb27e070ae5bc9de33c8bd](#).

#5 - 03/30/2025 02:50 AM - nagachika (Tomoyuki Chikanaga)

- Backport changed from 3.1: UNKNOWN, 3.2: UNKNOWN, 3.3: UNKNOWN, 3.4: DONE to 3.1: DONTNEED, 3.2: DONTNEED, 3.3: DONTNEED, 3.4: DONE