Ruby master - Bug #14639
Array#map and lambda arity regression
03/28/2018 10:03 AM - lenwood (Paul Martensen)

Status: Closed
Priority: Normal
Assignee:
Target version:
ruby -v: 2.4.1+
Backport: 2.3: DONTNEED, 2.4: REQUIRED, 2.5: DONE

Description
From ruby 2.4.1 onward the following script breaks (ArgumentError):

```ruby
print_three = ->(a, b, c) { puts [a, b, c] }
arr = [[1, 2, 3]]
arr.map(&print_three)
```

This now requires explicit destructuring:

```ruby
print_three = ->((a, b, c)) { puts [a, b, c] }
```

I guess this comes from a change in enum.c (line 45) from #9605 which seems to be similar.

While digging around I found https://bugs.ruby-lang.org/projects/ruby-trunk/repository/revisions/48193/diff that seems to address this very issue but I'm not sure.

If this is expected behavior feel free to disregard this.

First time posting to ruby trunk so I'm sorry If there is any Information missing.

Related issues:
Related to Ruby master - Bug #15285: lambda return behavior regression from #...
Closed

Associated revisions
Revision e42f4ae7 - 03/29/2018 12:05 AM - nobu (Nobuyoshi Nakada)
   array.c: yield blockarg in collect
   • array.c (rb_ary_collect): yield in block argument semantics always to splat array elements to lambda, for the backward compatibility.
     [ruby-core:86362] [Bug #14639]

git-svn-id: svn+ssh://ci.ruby-lang.org/ruby/trunk@63030 b2dd03c8-39d4-4d8f-98ff-823fe69b080e

Revision 63030 - 03/29/2018 12:05 AM - nobu (Nobuyoshi Nakada)
array.c: yield blockarg in collect
   • array.c (rb_ary_collect): yield in block argument semantics always to splat array elements to lambda, for the backward compatibility.
     [ruby-core:86326] [Bug #14639]

Revision 63030 - 03/29/2018 12:05 AM - nobu (Nobuyoshi Nakada)
array.c: yield blockarg in collect
   • array.c (rb_ary_collect): yield in block argument semantics always to splat array elements to lambda, for the backward compatibility.
     [ruby-core:86362] [Bug #14639]

Revision ea15cedd - 10/11/2018 01:51 PM - nagachika (Tomoyuki Chikanaga)
merge revision(s) 63030: [Backport #14639]
   array.c: yield blockarg in collect
   * array.c (rb_ary_collect): yield in block argument semantics

03/21/2022
always to splat array elements to lambda, for the backward compatibility. [ruby-core:86362] [Bug #14639]

git-svn-id: svn+ssh://ci.ruby-lang.org/ruby/branches/ruby_2_5@64996 b2dd03c8-39d4-4d8f-98f8-823fe69b080e

Revision 64996 - 10/11/2018 01:51 PM - nagachika (Tomoyuki Chikanaga)
merge revision(s) 63030: [Backport #14639]
array.c: yield blockarg in collect

* array.c (rb_ary_collect): yield in block argument semantics always to splat array elements to lambda, for the backward compatibility. [ruby-core:86362] [Bug #14639]

History
#1 - 03/28/2018 01:40 PM - marcandre (Marc-Andre Lafortune)
- Subject changed from No #to_ary destructuring when mapping with lambda to Array#map and lambda arity change

#2 - 03/28/2018 02:08 PM - marcandre (Marc-Andre Lafortune)
- Subject changed from Array#map and lambda arity change to Array#map and lambda arity regression

Good checking.
Indeed, #9605 introduced lambda arity relaxation and this announced in the 2.2 NEWS.

Looks like a regression was introduced by #12705?

#3 - 03/29/2018 12:05 AM - nobu (Nobuyoshi Nakada)
- Status changed from Open to Closed

Applied in changeset trunk|r63030.

array.c: yield blockarg in collect

- array.c (rb_ary_collect): yield in block argument semantics always to splat array elements to lambda, for the backward compatibility. [ruby-core:86362] [Bug #14639]

#4 - 03/29/2018 12:36 AM - nobu (Nobuyoshi Nakada)
- Backport changed from 2.3: UNKNOWN, 2.4: UNKNOWN, 2.5: UNKNOWN to 2.3: DONTNEED, 2.4: REQUIRED, 2.5: REQUIRED

#5 - 03/29/2018 05:41 AM - lenwood (Paul Martensen)
That was incredibly quick. Thanks nobu (Nobuyoshi Nakada) and marcandre (Marc-Andre Lafortune)! :)

#6 - 10/11/2018 01:51 PM - nagachika (Tomoyuki Chikanaga)
- Backport changed from 2.3: DONTNEED, 2.4: REQUIRED, 2.5: REQUIRED to 2.3: DONTNEED, 2.4: REQUIRED, 2.5: DONTNEED, 2.4: REQUIRED, 2.5: DONE

ruby_2_5 r64996 merged revision(s) 63030.

#7 - 11/07/2018 09:01 AM - shyouhei (Shyouhei Urabe)
- Related to Bug #15285: lambda return behavior regression from #14639 added