

## Ruby trunk - Feature #11498

### Kernel#loop: return the "result" value of StopIteration

09/01/2015 09:11 AM - knu (Akinori MUSHHA)

<b>Status:</b>	Closed
<b>Priority:</b>	Normal
<b>Assignee:</b>	matz (Yukihiro Matsumoto)
<b>Target version:</b>	
<b>Description</b>	
<p>Kernel#loop wraps use of Enumerator rescuing StopIteration raised by Enumerator#next, but it does not provide access to the "result" value of a finished enumerator. If you wanted to get it, you'd have to rescue StopIteration by yourself.</p> <pre>result = loop {   begin     puts enum.next   rescue StopIteration =&gt; exc     break exc.result   end }</pre> <p>This feels awkward when loop is capable of rescuing the exception.</p> <p>So, my proposal here is to make Kernel#loop return the "result" value, which currently returns nothing (nil). Kernel#loop takes a "return" of an enumerator (StopIteration) as "break" of a loop, so it should be natural to be able to carry a returned value through to the caller like it was given with "break".</p> <p>With this enhancement, you could write something like this:</p> <pre>enum = Enumerator.new {  y    y &lt;&lt; 1   y &lt;&lt; 2   :ok }  result = loop {   puts enum.next } #=&gt; :ok</pre> <p>Attached is my implementation.</p>	

#### Associated revisions

##### Revision f4c48717 - 10/22/2015 09:58 AM - knu (Akinori MUSHHA)

Kernel#loop returns the result value of a finished iterator

- `vm_eval.c (rb_f_loop)`: When a loop is stopped by a StopIteration exception, return what the enumerator has returned instead of nil. [ruby-core:71133] [Feature #11498]

git-svn-id: svn+ssh://ci.ruby-lang.org/ruby/trunk@52218 b2dd03c8-39d4-4d8f-98ff-823fe69b080e

##### Revision 52218 - 10/22/2015 09:58 AM - knu (Akinori MUSHHA)

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## History

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### #1 - 10/21/2015 12:48 PM - matz (Yukihiko Matsumoto)

I like the idea. If anything bad happens by the patch, I'd love to accept this.

Matz.

### #2 - 10/22/2015 09:58 AM - knu (Akinori MUSHHA)

- Status changed from Open to Closed

Applied in changeset [r52218](#).

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## Files

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loop-result.patch	3.03 KB	09/01/2015	knu (Akinori MUSHHA)
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