

Ruby master - Feature #11498

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

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

Status:	Closed
Priority:	Normal
Assignee:	matz (Yukihiro Matsumoto)
Target version:	
Description	
<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 => 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 << 1 y << 2 :ok } result = loop { puts enum.next } #=> :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

#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

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