Ruby master - Bug #7088

Documentation of Timeout::timeout is wrong about which thread executes the block

09/30/2012 01:00 AM - rklemme (Robert Klemme)

<table>
<thead>
<tr>
<th>Status:</th>
<th>Closed</th>
</tr>
</thead>
<tbody>
<tr>
<td>Priority:</td>
<td>Normal</td>
</tr>
<tr>
<td>Assignee:</td>
<td>zzak (Zachary Scott)</td>
</tr>
<tr>
<td>Target version:</td>
<td>2.0.0</td>
</tr>
<tr>
<td>ruby -v:</td>
<td>ruby 1.9.3p194 (2012-04-20) [i686-linux]</td>
</tr>
</tbody>
</table>

Backport:

Description

See [http://rubydoc.info/stdlib/timeout/Timeout#timeout-class_method](http://rubydoc.info/stdlib/timeout/Timeout#timeout-class_method) - it reads “The block will be executed on another thread and will be given one argument: sec.” If you make the source code visible or look into the file timeout.rb in the library you’ll see that the block is invoked from the current (calling) thread. The comment reads as if the author had wanted to do an implementation like this:

```ruby
def timeout_1(timeout, &code)
  raise ArgumentError, "Invalid timeout: %p" % [timeout] unless timeout > 0
  raise ArgumentError, "No code to execute" if code.nil?
  worker = Thread.new(&code)
  worker.join(timeout) and worker.value
end
```

Note: this avoids bug [#4285](http://rubycore.net/bugs/4285) at the expense of a potentially longer running thread. Killing the background thread would suffer the same issues.

Associated revisions

Revision 17821595 - 10/11/2012 08:26 PM - zzak (Zachary Scott)
- lib/timeout.rb (timeout): Remove paragraph on wrong implementation detail. [ruby-core:47739] [Bug #7088]

Revision 37145 - 10/11/2012 08:26 PM - zzak (Zachary Scott)
- lib/timeout.rb (timeout): Remove paragraph on wrong implementation detail. [ruby-core:47739] [Bug #7088]

Revision 37145 - 10/11/2012 08:26 PM - zzak (Zachary Scott)
- lib/timeout.rb (timeout): Remove paragraph on wrong implementation detail. [ruby-core:47739] [Bug #7088]

Revision 37145 - 10/11/2012 08:26 PM - zzak (Zachary Scott)
- lib/timeout.rb (timeout): Remove paragraph on wrong implementation detail. [ruby-core:47739] [Bug #7088]

Revision 37145 - 10/11/2012 08:26 PM - zzak (Zachary Scott)
- lib/timeout.rb (timeout): Remove paragraph on wrong implementation detail. [ruby-core:47739] [Bug #7088]

Revision 37145 - 10/11/2012 08:26 PM - zzak (Zachary Scott)
- lib/timeout.rb (timeout): Remove paragraph on wrong implementation detail. [ruby-core:47739] [Bug #7088]

Revision 37145 - 10/11/2012 08:26 PM - zzak (Zachary Scott)
- lib/timeout.rb (timeout): Remove paragraph on wrong implementation detail. [ruby-core:47739] [Bug #7088]

Revision 37145 - 10/11/2012 08:26 PM - zzak (Zachary Scott)
- lib/timeout.rb (timeout): Remove paragraph on wrong implementation detail. [ruby-core:47739] [Bug #7088]

History

#1 - 09/30/2012 01:33 AM - drbrain (Eric Hodel)
How about we change that to: "The block will be executed on the current thread and will be given one argument: sec. While, the timer for sec number of seconds will run in another thread".

I think deleting the paragraph would be sufficient. We don't need to reveal the implementation details of timeout.

This issue was solved with changeset r37145.

Robert, thank you for reporting this issue.
Your contribution to Ruby is greatly appreciated.
May Ruby be with you.

- lib/timeout.rb (timeout): Remove paragraph on wrong implementation detail. [ruby-core:47739] [Bug #7088]