Description
[ruby-dev:39421] は、Keep-Alive の Timeout を提案します。
HTTP/1.1 ではデフォルトで持続的接続を行うので、複数回のリクエストに渡って
一つの socket が使い回されます。
しかし、リクエスト同士で時間が開いていると、サーバー側でタイムアウトする
可能性があります。この時にクライアント側の read(2) が 0 を返す、
つまり EOFError となることがあります。
HTTP/1.1 で高頻度で踏むようになったので調べてみた

http://tools.ietf.org/html/rfc2616#section-8.1.4
http://www.studyinghttp.net/connections

Apache の場合、FreeBSD ports や pkgsrc では 5 秒、
Debian Packages や RPM では 15 秒です。

diff --git a/lib/net/http.rb b/lib/net/http.rb
index 879cfe0..13bd1a7 100644
--- a/lib/net/http.rb
+++ b/lib/net/http.rb
@@ -1332,7 +1332,10 @@ module Net   #:nodoc: +  def transport_request(req)
 count = 0    begin_transport req    res = catch(:response) {      req.exec @socket, @curr_http_version, edit_path(req.path) @@
 -1346,6 +1349,16 @@ module Net   #:nodoc:    }    end_transport req, res    res
 rescue EOFError, Errno::ECONNRESET => exception
 if count == 0 && IDEMPOTENT_METHODS_.include?(req.method)
 count += 1
 @socket.close if @socket and not @socket.closed?
 D "Conn close because of error #{exception}, and retry"
 retry
 end
 D "Conn close because of error #{exception}"
 @socket.close if @socket and not @socket.closed?
 raise rescue => exception  D "Conn close because of error #{exception}"  @socket.close if @socket and not @socket.closed? diff --git a/test/net/http/test_http.rb b/test/net/http.rb
index 879cfe0..13bd1a7 100644
--- a/test/net/http/test_http.rb
+++ b/test/net/http.rb
@@ -1332,7 +1332,10 @@ module Net   #:nodoc: +  def transport_request(req)
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 D "Conn close because of error #{exception}, and retry"
 retry
 end
 D "Conn close because of error #{exception}"
 @socket.close if @socket and not @socket.closed?
 raise rescue => exception  D "Conn close because of error #{exception}"  @socket.close if @socket and not @socket.closed?

```ruby
include TestNetHTTPUtils

def test_keep_alive_get
  start do |http|
    res = http.get('/')
    assert_kind_of Net::HTTPResponse, res
    assert_kind_of String, res.body
    sleep 1
    assert_nothing_raised {
      res = http.get('/')
    }
    assert_kind_of Net::HTTPResponse, res
    assert_kind_of String, res.body
  end
end

Related issues:

<table>
<thead>
<tr>
<th>Related to</th>
<th>Issue details</th>
<th>Status</th>
<th>Created</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ruby master</td>
<td>Bug #6001: Retry idempotent HTTP requests for more e...</td>
<td>Closed</td>
<td>02/11/2012</td>
</tr>
</tbody>
</table>

Associated revisions

Revision bee7ccdd - 01/20/2012 05:56 AM - naruse (Yui NARUSE)

- lib/net/http.rb (Net::HTTP#transport_request): retry a idempotent request automatically. [ruby-dev:45030] [Bug #5790] [ruby-core:41821] [Bug #5813]


- lib/net/http.rb (Net::HTTP#begin_transport): reconnect TCP connection on keep-alive timeout.

git-svn-id: svn+ssh://ci.ruby-lang.org/ruby/trunk@34341 b2dd03c8-39d4-4d8f-98ff-823fe69b080e

Revision 34341 - 01/20/2012 05:56 AM - naruse (Yui NARUSE)

- lib/net/http.rb (Net::HTTP#transport_request): retry a idempotent request automatically. [ruby-dev:45030] [Bug #5790] [ruby-core:41821] [Bug #5813]


- lib/net/http.rb (Net::HTTP#begin_transport): reconnect TCP connection on keep-alive timeout.

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lib/net/http.rb (Net::HTTP#transport_request): retry a idempotent request automatically. [ruby-dev:45030] [Bug #5790] [ruby-core:41821] [Bug #5813]


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**lib/net/http.rb (Net::HTTP#keep_alive_timeout=):** added to specify the second to reconnect the TCP connection on Keep-Alive.

**lib/net/http.rb (Net::HTTP#begin_transport):** reconnect TCP connection on keep-alive timeout.

### History

**#1 - 12/27/2011 10:23 AM - Anonymous**

(2011/12/22 18:49), Yui NARUSE wrote:

HTTP/1.1 もう一度リクエストを送る必要があるけど、

http://tools.ietf.org/html/rfc2616#section-8.1.4

http://www.studyinghttp.net/connections

**#2 - 01/11/2012 03:43 AM - naruse (Yui NARUSE)**

- File deleted (signature.asc)

**#3 - 01/20/2012 02:56 PM - naruse (Yui NARUSE)**

- Status changed from Open to Closed
- % Done changed from 0 to 100

This issue was solved with changeset r34341.
Yui, thank you for reporting this issue.
Your contribution to Ruby is greatly appreciated.
May Ruby be with you.