Backport186 - Backport #1284

Net::HTTP POST performance

03/13/2009 05:23 PM - candlerb (Brian Candler)

Status:	Closed	
Priority:	Normal	
Assignee:	wyhaines (Kirk Haines)	

Description

=begin
Net::HTTP uses a fixed block size of 1024 bytes when streaming or chunking POST bodies, which leads to very poor performance for large file uploads.

Issue affects both trunk and branches/ruby_1_8

The attached tiny patch changes this to a tunable constant (BUFSIZE) with a default of 16K.

Notes:

- A similar change has already been made to net/protocol.rb in r12092
- WEBrick httprequest and httpresponse already have a BUFSIZE constant
- WEBrick was made even more tunable in r10167 (trunk only) =end

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Associated revisions

Revision 471ad3039c15e3cbb1bf9e35cc6cae0aa65acd9e - 12/20/2009 02:54 PM - nahi (Hiroshi Nakamura)

- lib/net/http.rb (HTTPGenericRequest#send_request_with_body_stream):
  increased encoding chunk size for POST request with body_stream
  (1K -> 16K). patched by Brian Candler. #1284.

  ```
  * test/net/http/test_post_io.rb: added for the patch. It's good if a
    patch comes with a test.
  ```

git-svn-id: svn+ssh://ci.ruby-lang.org/ruby/branches/ruby_1_8@26131 b2dd03c8-39d4-4d8f-98ff-823fe69b080e

Revision 2ce5dfbd9dfddf98b00d7a5c025dfb7b5e221500 - 04/02/2010 03:27 AM - shyouhei (Shyouhei Urabe)

merge revision(s) 26131:
* lib/net/http.rb (HTTPGenericRequest#send_request_with_body_stream):
increased encoding chunk size for POST request with body_stream
(1K -> 16K). patched by Brian Candler. #1284.
* test/net/http/test_post_io.rb: added for the patch. It's good if a
patch comes with a test.

git-svn-id: svn+ssh://ci.ruby-lang.org/ruby/branches/ruby_1_8_7@27172 b2dd03c8-39d4-4d8f-98ff-823fe69b080e

Revision 70271340af90bdfedd52854b45704cb488946d92 - 06/07/2010 07:00 PM - wyhaines (Kirk Haines)

lib/net/http.rb: Backport #1284 [ruby-core:22874]; Change Net:HTTP to use a block size of 16k instead of 1k when streaming or chunking POST bodies.
test/net/http/test_post_io.rb: Backport #1284 [ruby-core:22874]; A test to go with the above change.

git-svn-id: svn+ssh://ci.ruby-lang.org/ruby/branches/ruby_1_8_6@28198 b2dd03c8-39d4-4d8f-98ff-823fe69b080e

Revision 70271340 - 06/07/2010 07:00 PM - wyhaines (Kirk Haines)

lib/net/http.rb: Backport #1284 [ruby-core:22874]; Change Net:HTTP to use a block size of 16k instead of 1k when streaming or chunking POST bodies.
test/net/http/test_post_io.rb: Backport #1284 [ruby-core:22874]; A test to go with the above change.

git-svn-id: svn+ssh://ci.ruby-lang.org/ruby/branches/ruby_1_8_6@28198 b2dd03c8-39d4-4d8f-98ff-823fe69b080e

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History

#1 - 12/15/2009 09:16 PM - shyouhei (Shyouhei Urabe)

- Status changed from Open to Assigned

- Assignee set to nahi (Hiroshi Nakamura)

=begin

=end

#2 - 12/20/2009 11:57 PM - nahi (Hiroshi Nakamura)

- Status changed from Assigned to Closed

- % Done changed from 0 to 100

=begin
This issue was solved with changeset r26131.
Brian, thank you for reporting this issue.
Your contribution to Ruby is greatly appreciated.
May Ruby be with you.

=end

#3 - 03/30/2010 09:14 PM - shyouhei (Shyouhei Urabe)

- Status changed from Closed to Assigned

- Assignee changed from nahi (Hiroshi Nakamura) to shyouhei (Shyouhei Urabe)

=begin

=end

#4 - 04/02/2010 12:41 PM - shyouhei (Shyouhei Urabe)

- Assignee changed from shyouhei (Shyouhei Urabe) to wyhaines (Kirk Haines)

=begin
Fixed in 1.8.7. 1.8.6 also uses 1K buffer, so I assign this to Kirk.

Note that typical Ethernet frame body is 1,500 octets length. Using 1K buffer leads at least 2 system calls per a packet on most situations.
=end

#5 - 06/08/2010 04:07 AM - wyhaines (Kirk Haines)

- Status changed from Assigned to Closed

=begin
This issue was solved with changeset r28198.
Brian, thank you for reporting this issue.
Your contribution to Ruby is greatly appreciated.
May Ruby be with you.

=end

Files

net-http-bufsize.patch	722 Bytes	03/13/2009	candlerb (Brian Candler)