Ruby - Feature #4672

[PATCH] openssl: enable SSL_MODE_RELEASE_BUFFERS if available

05/12/2011 04:05 PM - normalperson (Eric Wong)

Status:	Closed
Priority:	Normal
Assignee:	MartinBosslet (Martin Bosslet)
Target version:	2.0.0

Description

Available in OpenSSL 1.0.0a and later, this can save up to 34KB
per idle connection.

Using the test script below run with the time(1) command on 64-bit
Linux (needs /proc/$PID/status to grab VmRSS:)

before

conn_clients: 500
srv_clients: 500
VmRSS: 65428 kB
19.18user 1.86system 0:20.72elapsed 101%CPU (0avgtext+0avgdata 263952maxresident
0inputs+0outputs (0major+56932minor)pagefaults 0swaps

after

conn_clients: 500
srv_clients: 500
VmRSS: 19228 kB
19.41user 1.53system 0:20.64elapsed 101%CPU (0avgtext+0avgdata 77424maxresident
0inputs+0outputs (0major+20845minor)pagefaults 0swaps

(test script attached)

You can also pull my change via git:

git clone git://bogomips.org/ruby.git ssl-memory

Associated revisions

Revision 41c517d1 - 06/22/2011 06:04 AM - MartinBosslet (Martin Bosslet)

- ext/openssl/ossl_ssl.c: Use SSL_MODE_RELEASE_BUFFERS if available.
  Thanks, Eric Wong, for providing the patch.
  [Ruby 1.9 - Feature #4672] [ruby-core:36127]

git-svn-id: svn+ssh://ci.ruby-lang.org/ruby/trunk@32198 b2dd03c8-39d4-4d8f-98ff-823fe69b080e

History

#1 - 06/09/2011 06:32 AM - MartinBosslet (Martin Bosslet)

- Assignee set to nahi (Hiroshi Nakamura)

This patch seems reasonable. I looked at the implementation in OpenSSL (1.0.0d)
and it looks like using SSL_MODE_RELEASE_BUFFERS should not cause any problems.

Hiroshi, what do you think?

Regards,
Martin

(PS: If you agree that we should apply this, please feel free to assign back to
me for application of this patch)

#2 - 06/20/2011 07:45 PM - nahi (Hiroshi Nakamura)

- Status changed from Open to Assigned

- Assignee changed from nahi (Hiroshi Nakamura) to MartinBosslet (Martin Bosslet)

Excellent result. It looks like a gift from Tor project. There's no reason I can imagine not to apply this. Please apply this.

I think it's OK to commit this w/o writing a test. :)

#3 - 06/22/2011 03:04 PM - Anonymous

- Status changed from Assigned to Closed

- % Done changed from 0 to 100

This issue was solved with changeset r32198.
Eric, thank you for reporting this issue.
Your contribution to Ruby is greatly appreciated.
May Ruby be with you.

- ext/openssl/ossl_ssl.c: Use SSL_MODE_RELEASE_BUFFERS if available.
  Thanks, Eric Wong, for providing the patch.
  [Ruby 1.9 - Feature #4672] [ruby-core:36127]

Files

0001-openssl-enable-SSL_MODE_RELEASE_BUFFERS-if-available.patch	2.75 KB	05/12/2011	normalperson (Eric Wong)
openssl_memory.rb	1.1 KB	05/12/2011	normalperson (Eric Wong)