Ruby master - Feature #4672

[PATCH] openssl: enable SSL_MODE_RELEASE_BUFFERS if available

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

<table>
<thead>
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<th>Status:</th>
<th>Closed</th>
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<tbody>
<tr>
<td>Priority:</td>
<td>Normal</td>
</tr>
<tr>
<td>Assignee:</td>
<td>MartinBosslet (Martin Bosslet)</td>
</tr>
<tr>
<td>Target version:</td>
<td>2.0.0</td>
</tr>
</tbody>
</table>

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 - emboss

- 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

Revision 32198 - 06/22/2011 06:04 AM - emboss

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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

<table>
<thead>
<tr>
<th>File Description</th>
<th>Size</th>
<th>Date</th>
<th>Author</th>
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<tr>
<td>0001-openssl-enable-SSL_MODE_RELEASE_BUFFERS-if-available.patch</td>
<td>0.0 KB</td>
<td>05/12/2011</td>
<td>normalperson (Eric Wong)</td>
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<tr>
<td>openssl_memory.rb</td>
<td>1.1 KB</td>
<td>05/12/2011</td>
<td>normalperson (Eric Wong)</td>
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