

Ruby trunk - Bug #11268

Zlib::DataError: incorrect header check

06/16/2015 02:15 PM - stevenspiel (Steven Spiel)

Status: Assigned	
Priority: Normal	
Assignee: akr (Akira Tanaka)	
Target version:	
ruby -v: 2.2.2p95	Backport: 2.0.0: UNKNOWN, 2.1: UNKNOWN, 2.2: UNKNOWN
Description	
I'm having an issue opening a webpage with open-uri	
<pre>\$ ruby -v ruby 2.2.2p95 (2015-04-13 revision 50295) [x86_64-darwin14] \$ irb require 'open-air' => true open('https://www.hoveround.com') Zlib::DataError: incorrect header check from /Users/stevenspiel/.rbenv/versions/2.2.2/lib/ruby/2.2.0/net/http/response.rb:377:in inflate' from /Users/stevenspiel/.rbenv/versions/2.2.2/lib/ruby/2.2.0/net/http/response.rb:377:in block in inflate_adapter' from /Users/stevenspiel/.rbenv/versions/2.2.2/lib/ruby/2.2.0/net/protocol.rb:411:in call_block' from /Users/stevenspiel/.rbenv/versions/2.2.2/lib/ruby/2.2.0/net/protocol.rb:402:in <<' from /Users/stevenspiel/.rbenv/versions/2.2.2/lib/ruby/2.2.0/net/protocol.rb:102:in read' from /Users/stevenspiel/.rbenv/versions/2.2.2/lib/ruby/2.2.0/net/http/response.rb:399:in read' from /Users/stevenspiel/.rbenv/versions/2.2.2/lib/ruby/2.2.0/net/http/response.rb:317:in read_chunked' from /Users/stevenspiel/.rbenv/versions/2.2.2/lib/ruby/2.2.0/net/http/response.rb:281:in block in read_body_0' from /Users/stevenspiel/.rbenv/versions/2.2.2/lib/ruby/2.2.0/net/http/response.rb:260:in inflater' from /Users/stevenspiel/.rbenv/versions/2.2.2/lib/ruby/2.2.0/net/http/response.rb:279:in read_body_0' from /Users/stevenspiel/.rbenv/versions/2.2.2/lib/ruby/2.2.0/net/http/response.rb:201:in read_body' from /Users/stevenspiel/.rbenv/versions/2.2.2/lib/ruby/2.2.0/open-uri.rb:333:in block (2 levels) in open_http' from /Users/stevenspiel/.rbenv/versions/2.2.2/lib/ruby/2.2.0/net/http.rb:1421:in block (2 levels) in transport_request' from /Users/stevenspiel/.rbenv/versions/2.2.2/lib/ruby/2.2.0/net/http/response.rb:162:in reading_body' from /Users/stevenspiel/.rbenv/versions/2.2.2/lib/ruby/2.2.0/net/http.rb:1420:in block in transport_request' from /Users/stevenspiel/.rbenv/versions/2.2.2/lib/ruby/2.2.0/net/http.rb:1411:incatch' from /Users/stevenspiel/.rbenv/versions/2.2.2/lib/ruby/2.2.0/net/http.rb:1411:in transport_request' from /Users/stevenspiel/.rbenv/versions/2.2.2/lib/ruby/2.2.0/net/http.rb:1384:in request' from /Users/stevenspiel/.rbenv/versions/2.2.2/lib/ruby/2.2.0/open-uri.rb:324:in block in open_http' from /Users/stevenspiel/.rbenv/versions/2.2.2/lib/ruby/2.2.0/net/http.rb:853:in start' from /Users/stevenspiel/.rbenv/versions/2.2.2/lib/ruby/2.2.0/open-uri.rb:318:in open_http' from /Users/stevenspiel/.rbenv/versions/2.2.2/lib/ruby/2.2.0/open-uri.rb:736:in buffer_open' from /Users/stevenspiel/.rbenv/versions/2.2.2/lib/ruby/2.2.0/open-uri.rb:211:in block in open_loop' from /Users/stevenspiel/.rbenv/versions/2.2.2/lib/ruby/2.2.0/open-uri.rb:209:incatch' from /Users/stevenspiel/.rbenv/versions/2.2.2/lib/ruby/2.2.0/open-uri.rb:209:in open_loop' from /Users/stevenspiel/.rbenv/versions/2.2.2/lib/ruby/2.2.0/open-uri.rb:150:in open_uri' from /Users/stevenspiel/.rbenv/versions/2.2.2/lib/ruby/2.2.0/open-uri.rb:716:in open' from /Users/stevenspiel/.rbenv/versions/2.2.2/lib/ruby/2.2.0/open-uri.rb:34:in open' from (irb):2 from /Users/stevenspiel/.rbenv/versions/2.2.2/bin/irb:11:in ``</pre>	

History

#1 - 06/16/2015 03:03 PM - Hanmac (Hans Mackowiak)

i can reproduce it with "ruby 2.3.0dev (2015-06-15 trunk 50908) [x86_64-linux]"

but i did use require 'open-uri' instead of require 'open-air'

#2 - 08/20/2015 04:22 PM - nkmrya (Yasuhiro Nakamura)

I check the response from <https://www.hoveround.com> .

```
$ openssl s_client -connect www.hoveround.com:443
```

Request header

```
GET / HTTP/1.1
Host: www.hoveround.com
Accept-Encoding: gzip,deflate
```

Response

```
HTTP/1.1 200 OK
Cache-Control: private, no-store, must-revalidate
Transfer-Encoding: chunked
Content-Type: text/html; charset=utf-8
Content-Encoding: deflate
Server: Microsoft-IIS/8.5
X-Frame-Options: SAMEORIGIN
Set-Cookie: CMSPreferredCulture=en-US; expires=Sat, 20-Aug-2016 14:26:58 GMT; path=/; HttpOnly
Set-Cookie: ASP.NET_SessionId=ksufrr40usfo3ecjvxmudpus; path=/; HttpOnly
Set-Cookie: CurrentContact=788a7c31-f770-4eba-bd0f-f322b42b3f71; expires=Thu, 20-Aug-2065 14:26:58 GMT; path=/; HttpOnly
X-UA-Compatible: IE=Edge
X-AspNet-Version: 4.0.30319
X-Powered-By: ASP.NET
Strict-Transport-Security: max-age=10886400
Date: Thu, 20 Aug 2015 14:26:59 GMT
```

```
5361
... encoded content
```

encoded content

```
edbde972db48b230fa...
```

That server encodes the content by Deflate. Deflate has not header. (see RFC 1951) Encoded content is not satisfy Gzib header and Zlib header, so Zlib::Inflate can not inflate it.

I think, the solution is to remove deflate from request header or to make new method for inflate raw 'Deflate'. Which solution is better?

#3 - 09/08/2015 02:38 AM - nagachika (Tomoyuki Chikanaga)

- Status changed from Open to Assigned
- Assignee set to akr (Akira Tanaka)

Yasuhiro, thank you for your investigation!
So is it server side issue?

Anyway, you can specify request header via open-uri.

```
require "open-uri"
open('https://www.hoveround.com', "Accept-Encoding" => "plain") do |f| puts f.read end
```

This works fine on my environments.

#4 - 09/08/2015 01:40 PM - nkmrya (Yasuhiro Nakamura)

I think it is issue of ruby.

Test case of test/net/http/test_httpresponse.rb is wrong.
That test case say "\x9C\xCBH\xCD\xC9\xC9\xa\x00\x06,\x02\x15" is raw Deflate format (at line 85) but actually that hex is Zlib format.
A case of deflated 'hello' is "\x9C\xCBH\xCD\xC9\xC9\xa\x00".
I think ruby can not inflate a data which is compressed by raw Deflate format.
So ruby can not inflate the response of <https://www.hoveround.com> .
I examined these problems by using the php.

I am writing a path for problem of "open-uri".

#5 - 09/08/2015 03:34 PM - nkmrya (Yasuhiro Nakamura)

- File net_http.patch added

This patch has passed tests.

Files

net_http.patch

6.01 KB

09/08/2015

nkmya (Yasuhiro Nakamura)