Ruby master - Bug #5929

Zlib::Inflate#set_dictionary does not work with short input

01/26/2012 11:59 AM - drbrain (Eric Hodel)

Status: Closed  
Priority: Normal  
Assignee: 
Target version: 2.0.0  
ruby -v: ruby 2.0.0dev (2012-01-26 trunk 34377) [x86_64-darwin11.2.0]  
Backport: 

Description
=begin
If a deflate stream requires a dictionary and the block of data is short it is impossible to decompress the data without modifying the returned bytes. Upon receiving a Zlib::NeedDict exception the documentation for Zlib::Inflate#inflate states:

Set the dictionary by Zlib::Inflate#set_dictionary and then call this method again with an empty string

Calling inflate with an empty string does not decompress any further bytes due to (((do_inflate()))) ignoring zero-byte strings to avoid a Z_BUF_ERROR.

The attached patch alters the (((do_inflate()))) to inflate more data when either more data was provided by the user or (((z->stream.avail_in))) is nonzero.

Reading ((({zstream_run()}))) it appears that (((z->stream.avail_in))) will be set to zero upon consuming a chunk of data, so providing an empty string in the middle of a non-dictionary stream will be OK, but please check it.
=end

Related issues:
Related to Ruby master - Feature #5937: Zlib::Inflate#add_dictionary to pre-s...

Associated revisions
Revision 403dc535 - 02/11/2012 12:29 AM - drbrain (Eric Hodel)
  * ext/zlib/zlib.c (do_inflate): Inflate more data if buffered data exists. Allows Zlib::Inflate#set_dictionary to work. [ruby-trunk - Bug #5929]
  git-svn-id: svn+ssh://ci.ruby-lang.org/ruby/trunk@34552 b2dd03c8-39d4-4d8f-98ff-823fe69b080e

Revision 34552 - 02/11/2012 12:29 AM - drbrain (Eric Hodel)
  * ext/zlib/zlib.c (do_inflate): Inflate more data if buffered data exists. Allows Zlib::Inflate#set_dictionary to work. [ruby-trunk - Bug #5929]

Revision 34552 - 02/11/2012 12:29 AM - drbrain (Eric Hodel)
  * ext/zlib/zlib.c (do_inflate): Inflate more data if buffered data exists. Allows Zlib::Inflate#set_dictionary to work. [ruby-trunk - Bug #5929]

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* ext/zlib/zlib.c (do_inflate): Inflate more data if buffered data exists. Allows Zlib::Inflate#set_dictionary to work. [ruby-trunk - Bug #5929]

Revision b3e306a5 - 05/30/2012 08:21 AM - naruse (Yui NARUSE)
merge revision(s) 34552: [Bug #6516]

* ext/zlib/zlib.c (do_inflate): Inflate more data if buffered data exists. Allows Zlib::Inflate#set_dictionary to work. [ruby-trunk - Bug #5929]

git-svn-id: svn+ssh://ci.ruby-lang.org/ruby/branches/ruby_1_9_3@35845 b2dd03c8-39d4-4d8f-98ff-823fe69b080e

Revision 898b9c1b - 06/26/2012 11:36 AM - naruse (YUI NARUSE)
merge revision(s) 34552: [Backport #6516]

* ext/zlib/zlib.c (do_inflate): Inflate more data if buffered data exists. Allows Zlib::Inflate#set_dictionary to work. [ruby-trunk - Bug #5929]

git-svn-id: svn+ssh://ci.ruby-lang.org/ruby/branches/ruby_1_9_3@36223 b2dd03c8-39d4-4d8f-98ff-823fe69b080e

History
#1 - 02/11/2012 09:29 AM - drbrain (Eric Hodel)
- Status changed from Open to Closed
- % Done changed from 0 to 100

This issue was solved with changeset r34552.
Eric, thank you for reporting this issue.
Your contribution to Ruby is greatly appreciated.
May Ruby be with you.

Files
zlib.c.set_dictionary.patch 2.13 KB 01/26/2012 drbrain (Eric Hodel)