

Ruby master - Bug #10285

StringIO with encodings broken due to #9769

09/23/2014 11:29 AM - dbussink (Dirkjan Bussink)

| | |
|--|---|
| Status: Closed | |
| Priority: Normal | |
| Assignee: | |
| Target version: | |
| ruby -v: 2.1.3 | Backport: 2.0.0: DONE, 2.1: DONE |
| Description | |
| It looks like the change in https://bugs.ruby-lang.org/issues/9769 resulted in a behavior change with how StringIO works with different encodings. | |
| The following snippet is broken and now raises: | |
| <pre>test_string_io_encoding.rb:8:in `write': incompatible character encodings: ASCII-8BIT and Windows-1252 (Encoding::CompatibilityError) from test_string_io_encoding.rb:8:in `<main>' require 'stringio' io = StringIO.new io.set_encoding(Encoding::ASCII_8BIT) io.write("quz \x83 mat".force_encoding(Encoding::ASCII_8BIT)) str = "foo \x97 bar".force_encoding(Encoding::WINDOWS_1252) io.write(str) p io.string</main></pre> | |
| What is the intended behavior here? If I change the code to not set the encoding on the StringIO object, it does work somehow: | |
| <pre>require 'stringio' io = StringIO.new io.write("quz \x83 mat".force_encoding(Encoding::ASCII_8BIT)) str = "foo \x97 bar".force_encoding(Encoding::WINDOWS_1252) io.write(str) p io.string</pre> | |
| In this case it sees io.string as UTF-8 encoded, but this is invalid. It does allow the second StringIO#write here though. | |

Associated revisions

Revision 2a8989d7 - 09/26/2014 03:52 AM - nobu (Nobuyoshi Nakada)

stringio.c: ASCII-8BIT StringIO rejects no encodings

- ext/stringio/stringio.c (strio_write): ASCII-8BIT StringIO should be writable any encoding strings, without conversion. [ruby-core:65240] [Bug #10285]

git-svn-id: svn+ssh://ci.ruby-lang.org/ruby/trunk@47716 b2dd03c8-39d4-4d8f-98ff-823fe69b080e

Revision 47716 - 09/26/2014 03:52 AM - nobu (Nobuyoshi Nakada)

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Revision 10a4543f - 10/16/2014 01:19 PM - nagachika (Tomoyuki Chikanaga)

merge revision(s) r47716: [Backport #10285]

```
* ext/stringio/stringio.c (strio_write): ASCII-8BIT StringIO
  should be writable any encoding strings, without conversion.
  [ruby-core:65240] [Bug #10285]
```

git-svn-id: svn+ssh://ci.ruby-lang.org/ruby/branches/ruby_2_1@47982 b2dd03c8-39d4-4d8f-98ff-823fe69b080e

Revision 47982 - 10/16/2014 01:19 PM - nagachika (Tomoyuki Chikanaga)

merge revision(s) r47716: [Backport #10285]

```
* ext/stringio/stringio.c (strio_write): ASCII-8BIT StringIO
  should be writable any encoding strings, without conversion.
  [ruby-core:65240] [Bug #10285]
```

Revision 897b2177 - 10/17/2014 04:20 AM - usa (Usaku NAKAMURA)

merge revision(s) 47716: [Backport #10285]

```
* ext/stringio/stringio.c (strio_write): ASCII-8BIT StringIO
  should be writable any encoding strings, without conversion.
  [ruby-core:65240] [Bug #10285]
```

git-svn-id: svn+ssh://ci.ruby-lang.org/ruby/branches/ruby_2_0_0@47988 b2dd03c8-39d4-4d8f-98ff-823fe69b080e

Revision 47988 - 10/17/2014 04:20 AM - usa (Usaku NAKAMURA)

merge revision(s) 47716: [Backport #10285]

```
* ext/stringio/stringio.c (strio_write): ASCII-8BIT StringIO
  should be writable any encoding strings, without conversion.
  [ruby-core:65240] [Bug #10285]
```

History

#1 - 09/23/2014 06:21 PM - dbussink (Dirkjan Bussink)

As another data point, I also tried this with writing to a file which seems to work:

```
File.open("out.txt", :mode => "w", :encoding => Encoding::ASCII_8BIT) do |f|
  str1 = "quz \x83 mat".force_encoding(Encoding::ASCII_8BIT)
  f.write(str1)
end
```

```
str2 = "foo \x97 bar".force_encoding(Encoding::WINDOWS_1252)
f.write(str2)
end
```

```
p File.read("out.txt")
```

#2 - 09/24/2014 03:28 PM - usa (Usaku NAKAMURA)

- Backport changed from 2.0.0: UNKNOWN, 2.1: UNKNOWN to 2.0.0: REQUIRED, 2.1: REQUIRED

#3 - 09/26/2014 03:52 AM - nobu (Nobuyoshi Nakada)

- Status changed from Open to Closed

- % Done changed from 0 to 100

Applied in changeset r47716.

stringio.c: ASCII-8BIT StringIO rejects no encodings

- ext/stringio/stringio.c (strio_write): ASCII-8BIT StringIO should be writable any encoding strings, without conversion. [ruby-core:65240] [Bug [#10285](#)]

#4 - 10/16/2014 01:19 PM - nagachika (Tomoyuki Chikanaga)

- Backport changed from 2.0.0: REQUIRED, 2.1: REQUIRED to 2.0.0: REQUIRED, 2.1: DONE

Backported into ruby_2_1 at r47982.

#5 - 10/17/2014 04:20 AM - usa (Usaku NAKAMURA)

- Backport changed from 2.0.0: REQUIRED, 2.1: DONE to 2.0.0: DONE, 2.1: DONE

Backported into ruby_2_0_0 at r47988.