encoding of String#unpack for 'H', 'h', 'B' and 'b'

Originally mentioned in #6799, I think the encoding of the resulting Strings for the 'H', 'h', 'B' and 'b' directives of String#unpack should be encoded in US-ASCII, because they will always contain 0-9a-f (0-1 for 'B','b') chars.

This is already done for the 'm', 'M' and 'u' directives in Array#pack.

It would also fix SecureRandom hexdigests as mentioned in #6799.

P.S.: Does anyone know the rationale behind which method to use for 'u','m','M' and 'H','h','B','b'?

To have a base64 representation you need [s].pack('m') (and so #pack is used for 'u','m','M' to obtain the specified format), but for 'H','h','B','b' you need s.unpack(directive). I think the latter makes more sense when compared to other types such as 'I', in which #unpack is used to obtain the desired format.

Associated revisions

Revision b0e40509 - 10/19/2012 01:13 PM - Eregon (Benoit Daloze)
set encoding to ASCII for appropriate String#unpack modifiers

- pack.c (pack_unpack): set encoding of the 'H','h','B' and 'B' modifiers to US-ASCII.
- test/ruby/test_pack.rb: tests for the above. [ruby-core:47653][Bug #7050]
- test/test_securerandom.rb: tests for SecureRandom.hex from tenderlove. [ruby-core:46792][Bug #6799]

Revision 37269 - 10/19/2012 01:13 PM - Eregon (Benoit Daloze)
set encoding to ASCII for appropriate String#unpack modifiers

- pack.c (pack_unpack): set encoding of the 'H','h','B' and 'B' modifiers to US-ASCII.
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History

#1 - 09/23/2012 05:09 AM - Eregon (Benoit Daloze)
I would of course also add Aaron's test for SecureRandom hexdigests if this is fine to be merged.

#2 - 09/25/2012 10:58 AM - tenderlovemaking (Aaron Patterson)
I would really like this to be added! (Thank you for writing the patch)

#3 - 10/18/2012 07:33 AM - Eregon (Benoit Daloze)
Ping!
I would like to merge this.
If there are no objections, may I merge this in a week?

#4 - 10/19/2012 02:47 PM - naruse (Yui NARUSE)
Eregon (Benoit Daloze) wrote:

    Ping!
    I would like to merge this.
    If there are no objections, may I merge this in a week?

OK, here you go

#5 - 10/19/2012 10:13 PM - Eregon (Benoit Daloze)
- Status changed from Open to Closed
- % Done changed from 0 to 100

This issue was solved with changeset r37269.
Benoit, thank you for reporting this issue.
Your contribution to Ruby is greatly appreciated.
May Ruby be with you.

Revision 37269 - 10/19/2012 01:13 PM - Eregon (Benoit Daloze)
set encoding to ASCII for appropriate String#unpack modifiers

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#6 - 10/19/2012 10:53 PM - Eregon (Benoit Daloze)
On 19 October 2012 07:47, naruse (Yui NARUSE) naruse@airemix.jp wrote:

    Eregon (Benoit Daloze) wrote:

    Ping!
    I would like to merge this.
    If there are no objections, may I merge this in a week?

OK, here you go
Thank you!

**Files**

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<td>09/23/2012</td>
<td>Eregon (Benoit Daloze)</td>
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