

Backport193 - Backport #5635

String#unpack("M")

11/15/2011 03:51 PM - tommy (Masahiro Tomita)

Status:	Closed
Priority:	Normal
Assignee:	naruse (Yui NARUSE)

Description

String#unpack("M") "=" hoge
RFC2045

RFC2045

- (2) An "=" followed by a character that is neither a hexadecimal digit (including "abcdef") nor the CR character of a CRLF pair is illegal. This case can be the result of US-ASCII text having been included in a quoted-printable part of a message without itself having been subjected to quoted-printable encoding. A reasonable approach by a robust implementation might be to include the "=" character and the following character in the decoded data without any transformation and, if possible, indicate to the user that proper decoding was not possible at this point in the data.

Index: pack.c

--- pack.c

+++ pack.c

@@ -2008,20 +2008,23 @@

```
while (s < send) {  
    if (*s == '=') {
```

- if (++s == send) break;
- if (s+1 < send && *s == '\r' && *(s+1) == '\n')
- s++;
- if (*s != '\n') {
- if ((c1 = hex2num(*s)) == -1) break;
- if (++s == send) break;
- if ((c2 = hex2num(*s)) == -1) break;
- *ptr++ = c1 << 4 | c2;
- if (s+1 < send && *(s+1) == '\n') {
- s += 2;
- continue;
- }
- if (s+2 < send) {
- if (*(s+1) == '\r' && *(s+2) == '\n') {
- s += 3;
- continue;
- }
- if ((c1 = hex2num((s+1))) > -1 && (c2 = hex2num((s+2))) > -1) {
- *ptr++ = c1 << 4 | c2;
- s += 3;
- continue;
- } }
- else {
- *ptr++ = *s;
- }

- S++;

- ```
rb_str_set_len(buf, ptr - RSTRING_PTR(buf));
ENCODING_CODERANGE_SET(buf, rb_ascii8bit_encindex(), ENC_CODERANGE_VALID);
```

## Index: test/ruby/test\_pack.rb

```
--- test/ruby/test_pack.rb (000000 33758)
+++ test/ruby/test_pack.rb (000000)
@@ -612,6 +612,17 @@
assert_equal([0x100000000], "\220\200\200\200\000".unpack("w"), [0x100000000])
end
```

- def test\_pack\_unpack\_M
- assert\_equal(["pre123after"], "pre=31=32=33after".unpack("M"))
- assert\_equal(["preafter"], "pre=\nafter".unpack("M"))
- assert\_equal(["preafter"], "pre=\r\nafter".unpack("M"))
- assert\_equal(["pre="], "pre=".unpack("M"))
- assert\_equal(["pre=\r"], "pre=\r".unpack("M"))
- assert\_equal(["pre=hoge"], "pre=hoge".unpack("M"))
- assert\_equal(["pre=1 after"], "pre==31 after".unpack("M"))
- assert\_equal(["pre==1 after"], "pre===31 after".unpack("M"))
- end
- +  
def test\_modify\_under\_safe4  
s = "foo"  
assert\_raise(SecurityError) do

### Associated revisions

#### Revision b7df3e9f - 03/11/2012 02:59 PM - naruse (Yui NARUSE)

- pack.c (pack\_unpack): when unpack('M') occurs an illegal byte sequence, output the "=" character and the following character in the decoded data without any transformation. [ruby-dev:44875] [Bug #5635]

git-svn-id: svn+ssh://ci.ruby-lang.org/ruby/trunk@34972 b2dd03c8-39d4-4d8f-98ff-823fe69b080e

#### Revision 34972 - 03/11/2012 02:59 PM - naruse (Yui NARUSE)

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**Revision b8006774 - 08/09/2012 01:49 PM - naruse (Yui NARUSE)**

merge revision(s) 34972:

```
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sequence, output the "=" character and the following character in
the decoded data without any transformation.
[ruby-dev:44875] [Bug #5635]
```

git-svn-id: svn+ssh://ci.ruby-lang.org/ruby/branches/ruby\_1\_9\_3@36669 b2dd03c8-39d4-4d8f-98ff-823fe69b080e

**Revision 36669 - 08/09/2012 01:49 PM - naruse (Yui NARUSE)**

merge revision(s) 34972:

```
* pack.c (pack_unpack): when unpack('M') occurs an illegal byte
sequence, output the "=" character and the following character in
the decoded data without any transformation.
[ruby-dev:44875] [Bug #5635]
```

**History**

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**#1 - 11/15/2011 10:08 PM - naruse (Yui NARUSE)**

#####RFC#####

**#2 - 11/15/2011 11:11 PM - tommy (Masahiro Tomita)**

#####  
#####...

**#3 - 11/30/2011 05:09 AM - naruse (Yui NARUSE)**

#####  
#####RFC#####

**#4 - 12/09/2011 09:43 AM - tommy (Masahiro Tomita)**

#####...  
#####

**#5 - 03/11/2012 04:49 PM - ko1 (Koichi Sasada)**

- Assignee set to naruse (Yui NARUSE)

**#6 - 03/11/2012 11:59 PM - naruse (Yui NARUSE)**

- Status changed from Open to Closed

- % Done changed from 0 to 100

This issue was solved with changeset r34972.  
Masahiro, thank you for reporting this issue.  
Your contribution to Ruby is greatly appreciated.  
May Ruby be with you.

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**#7 - 08/09/2012 10:49 PM - naruse (Yui NARUSE)**

- *Tracker changed from Bug to Backport*

- *Project changed from Ruby trunk to Backport193*