Ruby - Bug #466

test_str_crypt(TestM17NComb) failed

08/21/2008 08:19 PM - znz (Kazuhiro NISHIYAMA)

Status:	Closed		
Priority:	Normal		
Assignee:	znz (Kazuhiro NISHIYAMA)		
Target version:			
ruby -v:	1.9.0	**Backport:**	

Description

```
$ ruby-trunk -v
ruby 1.9.0 (2008-08-21 revision 18753) [powerpc-darwin9.4.0]
```

□□□□test_str_crypt(TestM17NComb)□Failure□□□□□□

```
$ ruby-trunk test/ruby/test_m17n_comb.rb -v -n /crypt/
Loaded suite test/ruby/test_m17n_comb
Started
test_str_crypt(TestM17NComb): F

Finished in 0.03673 seconds.

  1) Failure:
test_str_crypt(TestM17NComb)
    [test/ruby/test_m17n_comb.rb:800:in `block in test_str_crypt'
     /Users/nishiyamakazuhiro/wc/ruby-lang/trunk/test/ruby/allpairs.rb:83:in `block in each'
     /Users/nishiyamakazuhiro/wc/ruby-lang/trunk/test/ruby/allpairs.rb:75:in `block in each_index'
     /Users/nishiyamakazuhiro/wc/ruby-lang/trunk/test/ruby/allpairs.rb:46:in `block in make_large_
block'
     /Users/nishiyamakazuhiro/wc/ruby-lang/trunk/test/ruby/allpairs.rb:26:in `block (2 levels) in
make_basic_block'
     /Users/nishiyamakazuhiro/wc/ruby-lang/trunk/test/ruby/allpairs.rb:21:in `times'
     /Users/nishiyamakazuhiro/wc/ruby-lang/trunk/test/ruby/allpairs.rb:21:in `block in make_basic_
block'
     /Users/nishiyamakazuhiro/wc/ruby-lang/trunk/test/ruby/allpairs.rb:20:in `times'
     /Users/nishiyamakazuhiro/wc/ruby-lang/trunk/test/ruby/allpairs.rb:20:in `make_basic_block'
     /Users/nishiyamakazuhiro/wc/ruby-lang/trunk/test/ruby/allpairs.rb:45:in `make_large_block'
     /Users/nishiyamakazuhiro/wc/ruby-lang/trunk/test/ruby/allpairs.rb:71:in `each_index'
     /Users/nishiyamakazuhiro/wc/ruby-lang/trunk/test/ruby/allpairs.rb:82:in `each'
     test/ruby/test_m17n_comb.rb:118:in `combination'
     test/ruby/test_m17n_comb.rb:794:in `test_str_crypt']:
"".force_encoding("ASCII-8BIT").crypt("\xE0\xA0\xA1".force_encoding("UTF-8")).
<"\xE0\xA0fT7zdRv9Y7A"> expected but was
<"\xE0\xA0swiH3o6yAu2">.

1 tests, 55 assertions, 1 failures, 0 errors
$
```

```
$ ruby-trunk -ve '3.times{p "".crypt("\xE0\xA0")}'                              ruby 1.9.0 (2008-0
8-21 revision 18753) [powerpc-darwin9.4.0]
"\xE0\xA0X8NBuQ4l6uQ"
"\xE0\xA0fT7zdRv9Y7A"
"\xE0\xA0fT7zdRv9Y7A"
$
```

□□□□2□□□□□□□□□□□□□□□□□□□□□□□□

□□crypt(2)□□□□□□□□□□□□□□□□□□□□□□□□

```
$ cat a.c

#include <stdio.h>
```

```
#include <unistd.h>

int main()
{
        printf("%s\n", crypt("", "\xE0\xA0"));
        printf("%s\n", crypt("", "\xE0\xA0"));
        printf("%s\n", crypt("", "\xE0\xA0"));
        return 0;
}

$ gcc a.c
$ ./a.out |LANG=C cat -v
M-`M- X8NBuQ4l6uQ
M-`M- fT7zdRv9Y7A
M-`M- fT7zdRv9Y7A
```

Related issues:

Related to Ruby - Feature #4042: String#crypt shoud not accepted "\x00" as a ...	**Rejected**	**11/11/2010**

History

#1 - 09/03/2008 06:52 PM - ko1 (Koichi Sasada)

- Assignee set to naruse (Yui NARUSE)

#2 - 09/03/2008 07:01 PM - naruse (Yui NARUSE)

- Category set to core

- Assignee changed from naruse (Yui NARUSE) to znz (Kazuhiro NISHIYAMA)

M17N [illegible]
[illegible]

#3 - 09/07/2008 12:45 PM - znz (Kazuhiro NISHIYAMA)

[illegible]configure[illegible]
[illegible]?

[illegible]
darwin[illegible]

```
Index: configure.in
===================================================================
--- configure.in (revision 19208)
+++ configure.in (working copy)
@@ -523,6 +523,26 @@
       AC_DEFINE(BROKEN_SETREUID, 1)
       AC_DEFINE(BROKEN_SETREGID, 1)
       ])
+  ac_cv_lib_crypt_crypt=no
+                AC_CACHE_CHECK(for broken crypt with 8bit chars, rb_cv_broken_crypt,
+                    [AC_TRY_RUN([
+#include <stdio.h>
+#include <unistd.h>
+#include <string.h>
+int
+main()
+{
+   char buf[256];
+   strcpy(buf, crypt("", "\xE0\xA0"));
+   return strcmp(buf, crypt("", "\xE0\xA0"));
+}
+],
+             rb_cv_broken_crypt=no,
+             rb_cv_broken_crypt=yes,
+             rb_cv_broken_crypt=yes)])
+                if test "$rb_cv_broken_crypt" = yes; then
+                  AC_DEFINE(BROKEN_CRYPT, 1)
+                fi
   ;;
 hpux*)  LIBS="-lm $LIBS"
   ac_cv_c_inline=no;;
Index: string.c
```

```
===================================================================
--- string.c (revision 19208)
+++ string.c (working copy)
@@ -5862,6 +5862,10 @@
     extern char *crypt(const char *, const char *);
     VALUE result;
     const char *s;
+#ifdef BROKEN_CRYPT
+    VALUE salt_8bit_clean;
+    rb_encoding *enc;
+#endif

     StringValue(salt);
     if (RSTRING_LEN(salt) < 2)
@@ -5869,7 +5873,18 @@

     if (RSTRING_PTR(str)) s = RSTRING_PTR(str);
     else s = "";
+#ifdef BROKEN_CRYPT
+    salt_8bit_clean = rb_str_dup(salt);
+    enc = rb_ascii8bit_encoding();
+    str_modifiable(salt_8bit_clean);
+    rb_enc_associate(salt_8bit_clean, enc);
+    salt_8bit_clean = rb_str_tr(salt_8bit_clean,
+                                rb_enc_str_new("\x80-\xFF", 3, enc),
+                                rb_usascii_str_new("\x00-\x7F", 3));
+    result = rb_str_new2(crypt(s, RSTRING_PTR(salt_8bit_clean)));
+#else
     result = rb_str_new2(crypt(s, RSTRING_PTR(salt)));
+#endif
     OBJ_INFECT(result, str);
     OBJ_INFECT(result, salt);
     return result;
```

#4 - 09/07/2008 01:05 PM - matz (Yukihiro Matsumoto)

まつもと ゆきひろです

In message "Re: [ruby-dev:36193] [Bug #466] test_str_crypt(TestM17NComb) failed"
on Sun, 7 Sep 2008 12:39:11 +0900, Kazuhiro NISHIYAMA redmine@ruby-lang.org writes:

> 以下のようにconfigureでチェックしてしまうのがいいかと思ったのですが、
> どうでしょうか？
>
> 影響範囲がよくわからなかったので、実際に値が変わってしまうことがあった
> darwinの時だけチェックするようなパッチにしてみました。

コミットしてくださいませんか?

#5 - 09/07/2008 06:07 PM - Anonymous

- *Status changed from Open to Closed*

- *% Done changed from 0 to 100*

Applied in changeset r19213.

#6 - 09/08/2008 10:53 AM - nobu (Nobuyoshi Nakada)

なかだです。

At Sun, 7 Sep 2008 12:39:11 +0900,
Kazuhiro NISHIYAMA wrote in [ruby-dev:36193]:

> 以下のようにconfigureでチェックしてしまうのがいいかと思ったのですが、
> どうでしょうか？
>
> 影響範囲がよくわからなかったので、実際に値が変わってしまうことがあった
> darwinの時だけチェックするようなパッチにしてみました。

現在のライブラリではたまたま毎回結果が変わっていますが、つねにそ
うなるとは限らないのではないでしょうか。毎回同じ正しくない結果を
返すという可能性もあるわけで。

"$1"□"$2"□□□□salt□□□□□□□□□□□□□□□□□□□
□□□□□□□□□□□□8bit□□□□□□□□□□□□□□□□□□□
□□□

```
Index: string.c
===================================================================
--- string.c (revision 19215)
+++ string.c (working copy)
@@ -5862,8 +5862,7 @@ rb_str_crypt(VALUE str, VALUE salt)
     extern char *crypt(const char *, const char *);
     VALUE result;
-    const char *s;
+    const char *s, *saltp;
 #ifdef BROKEN_CRYPT
-    VALUE salt_8bit_clean;
-    rb_encoding *enc;
+    char salt_8bit_clean[3];
 #endif

@@ -5872,18 +5871,14 @@ rb_str_crypt(VALUE str, VALUE salt)
  rb_raise(rb_eArgError, "salt too short (need >=2 bytes)");

-    if (RSTRING_PTR(str)) s = RSTRING_PTR(str);
-    else s = "";
-#ifdef BROKEN_CRYPT
-    salt_8bit_clean = rb_str_dup(salt);
-    enc = rb_ascii8bit_encoding();
-    str_modifiable(salt_8bit_clean);
-    rb_enc_associate(salt_8bit_clean, enc);
-    salt_8bit_clean = rb_str_tr(salt_8bit_clean,
-                                rb_enc_str_new("\x80-\xFF", 3, enc),
-                                rb_usascii_str_new("\x00-\x7F", 3));
-    result = rb_str_new2(crypt(s, RSTRING_PTR(salt_8bit_clean)));
-#else
-    result = rb_str_new2(crypt(s, RSTRING_PTR(salt)));
-#endif
+    s = RSTRING_PTR(str);
+    if (!s) s = "";
+    saltp = RSTRING_PTR(salt);
+    if (!ISASCII((unsigned char)saltp[0]) || !ISASCII((unsigned char)saltp[1])) {
+ salt_8bit_clean[0] = saltp[0] & 0x7f;
+ salt_8bit_clean[1] = saltp[2] & 0x7f;
+ salt_8bit_clean[2] = '\0';
+ saltp = salt_8bit_clean;
+    }
+    result = rb_str_new2(crypt(s, salts));
     OBJ_INFECT(result, str);
     OBJ_INFECT(result, salt);
```

--- □□□□Bug□□□□
--- □□□□□Bug□□□□□
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#7 - 09/08/2008 07:30 PM - znz (Kazuhiro NISHIYAMA)

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At Mon, 8 Sep 2008 10:46:45 +0900,
Nobuyoshi Nakada wrote:

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> "$1"□"$2"□□□□salt□□□□□□□□□□□□□□□□□□□
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```
+    result = rb_str_new2(crypt(s, salts));
```

□□salts□saltp□□□□□□□□□□□□□□□□□□□□□□□□□□

--
|ZnZ(□□□ □□ □□□)
|□□□□(Kazuhiro NISHIYAMA)

#8 - 09/09/2008 02:13 AM - nobu (Nobuyoshi Nakada)

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At Mon, 8 Sep 2008 19:23:47 +0900,
Kazuhiro NISHIYAMA wrote in [ruby-dev:36213]:

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> > "$1"□"$2"□□□□salt□□□□□□□□□□□□□□□□□□□□□□□□□□
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> □□?

crypt(3)□□□□salt□□□□□□□□□□[A-Za-z0-9./]□□□□□□□□
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"\xc1\xc1"□"\x41\x41"□□□□□□□□□□□□□□□□□□□□□□□□□
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#9 - 12/22/2014 10:45 PM - nobu (Nobuyoshi Nakada)

- Description updated

- ruby -v set to 1.9.0