Ruby master - Bug #9409

Cygwin □ "filesystem" □ encoding □□□□□□□□□

01/14/2014 08:43 AM - ganaware (Nayuta Taga)

Status:	Open		
Priority:	Normal		
Assignee:			
Target version:			
ruby -v:	-	**Backport:**	1.9.3: UNKNOWN, 2.0.0: UNKNOWN, 2.1: UNKNOWN

Description

Cygwin □□□□□ LANG □□□□□□□□□□□□□□□□□□
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"filesystem" □ encoding □□□□□□□□□□□□□□□□□

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- Windows 7 (□□□)
- Cygwin □□ (CYGWIN_NT-6.1-WOW64 ****** 1.7.27(0.271/5/3) 2013-12-09 11:57 i686 Cygwin)
- □□□□ LANG □ ja_JP.UTF-8
- □□□□□□□□□□□□□□□□.txt□□□□□□□□□□□□□□□

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```
print "LANG=#{ENV['LANG']}\n"
print "\n"
Dir.open('.').each{|item|
  p item.encoding
  p item
}
print "\n"
Dir.open('.',encoding: 'locale').each{|item|
  p item.encoding
  p item
}
print "\n"
```

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```
LANG=ja_JP.UTF-8

#<Encoding:Windows-31J>
"."
#<Encoding:Windows-31J>
".."
#<Encoding:Windows-31J>
"test.rb"
#<Encoding:Windows-31J>
"\x{E697}\xA5\x{E69C}\xAC\x{E8AA}\x9E.txt"

#<Encoding:UTF-8>
"."
#<Encoding:UTF-8>
".."
#<Encoding:UTF-8>
"test.rb"
#<Encoding:UTF-8>
"□□□.txt"
```

□□□□□□□□ Encoding □ UTF-8 □□□□□□□□□□□□□

Init_enc_set_filesystem_encoding() □□□□□□□□□□□□□□□□□□□□□□

```
Index: localeinit.c
===================================================================
--- localeinit.c        (revision 44594)
+++ localeinit.c        (working copy)
@@ -53,7 +53,7 @@
     int idx;
 #if defined NO_LOCALE_CHARMAP
 # error NO_LOCALE_CHARMAP defined
-#elif defined _WIN32 || defined __CYGWIN__
+#elif defined _WIN32 && !defined __CYGWIN__
     char cp[sizeof(int) * 8 / 3 + 4];
     snprintf(cp, sizeof cp, "CP%d", AreFileApisANSI() ? GetACP() : GetOEMCP());
     idx = rb_enc_find_index(cp);
```

History

#1 - 01/14/2014 08:45 AM - ganaware (Nayuta Taga)

□□□□ #9409 □ Nayuta Taga □□□□□□□□□□□□□

Bug #9409: Cygwin □ "filesystem" □ encoding □□□□□□□□□□
https://bugs.ruby-lang.org/issues/9409

- □□□: Nayuta Taga
- □□□□□: Open
- □□□: Normal
- □□□:
- □□□□:
- □□□□□□□□:
- ruby -v: ruby 2.2.0dev (2014-01-14 trunk 44594) [i386-cygwin]
- Backport: 1.9.3: UNKNOWN, 2.0.0: UNKNOWN, 2.1: UNKNOWN ---------- Cygwin □□□□□ LANG □□□□□□□□□□□□□□□□□□□□ □□□□□□□□□□□□□□□□□□□ "filesystem" □ encoding □□□□□□□□□□□□□□□□□□

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- Windows 7 (□□□)
- Cygwin □□ (CYGWIN_NT-6.1-WOW64 ****** 1.7.27(0.271/5/3) 2013-12-09 11:57 i686 Cygwin)
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- □□□□□□□□□□□□□□□□□.txt□□□□□□□□□□□□□□□□

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```
print "LANG=#{ENV['LANG']}\n"
print "\n"
Dir.open('.').each{|item|
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}
print "\n"
Dir.open('.',encoding: 'locale').each{|item|
p item.encoding
p item
}
print "\n"
```

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```
LANG=ja_JP.UTF-8

#<Encoding:Windows-31J>
"."
#<Encoding:Windows-31J>
".."
#<Encoding:Windows-31J>
"test.rb"
#<Encoding:Windows-31J>
"\x{E697}\xA5\x{E69C}\xAC\x{E8AA}\x9E.txt"

#<Encoding:UTF-8>
"."
#<Encoding:UTF-8>
".."
```

#<Encoding:UTF-8>
"test.rb"
#<Encoding:UTF-8>
"□□□.txt"

□□□□□□□□ Encoding □ UTF-8 □□□□□□□□□□□□□

Init_enc_set_filesystem_encoding() □□□□□□□□□□□□□□□□□□□□

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Index: localeinit.c
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int idx;
#if defined NO_LOCALE_CHARMAP
# error NO_LOCALE_CHARMAP defined
-#elif defined WIN32 || defined __CYGWIN__
+#elif defined WIN32 && !defined __CYGWIN__
char cp[sizeof(int) * 8 / 3 + 4];
snprintf(cp, sizeof cp, "CP%d", AreFileApisANSI() ? GetACP() : GetOEMCP());
idx = rb_enc_find_index(cp);
```

--
http://bugs.ruby-lang.org/

#2 - 01/14/2014 09:30 AM - nobu (Nobuyoshi Nakada)

- Description updated

filesystem encoding□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□

#3 - 01/14/2014 09:35 AM - nobu (Nobuyoshi Nakada)

- ruby -v changed from ruby 2.2.0dev (2014-01-14 trunk 44594) [i386-cygwin] to -

#4 - 01/14/2014 10:10 AM - ganaware (Nayuta Taga)

Nobuyoshi Nakada wrote:

> filesystem encoding□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□

Windows □□□□□□□□□□□□□□□□□□□□□□□□□
Cygwin □□□□□□ LANG □□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□?

□□□□□ LANG=ja_JP.UTF-8 □□□□
Dir.open('.').each{|item| p item.encoding }
□
#<Encoding:Windows-31J>
□□□□□□□□□□□□□□□□□□□□□□□□□□□□

#5 - 01/14/2014 03:29 PM - usa (Usaku NAKAMURA)

Nayuta Taga wrote:

> Windows □□□□□□□□□□□□□□□□□□□□□□□□□
> Cygwin □□□□□□ LANG □□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□?

Cygwin□□□□□□□□□□□Windows□□□□□□□□□□□□□□□□□□□
□□□□□□□□□Ruby□□□□□□□□□□□□□□□□□□□□□□□

#6 - 01/15/2014 02:01 AM - ganaware (Nayuta Taga)

- File test.c added

Usaku NAKAMURA wrote:

> Nayuta Taga wrote:
>
> > Windows □□□□□□□□□□□□□□□□□□□□□□□□□
> > Cygwin □□□□□□ LANG □□□□□□□□

[illegible]?

> Cygwin[illegible]Windows[illegible]
> [illegible]Ruby[illegible]

[illegible]Cygwin [illegible]

http://cygwin.com/cygwin-ug-net/setup-locale.html

> Cygwin uses the setting of the locale environment variables LC_ALL, LC_CTYPE, and LANG, to determine how to convert Windows filenames from their UTF-16 representation to the singlebyte or multibyte character set used by Cygwin.
>
> The setting of the locale environment variables at process startup is effective for Cygwin's internal conversions to and from the Windows UTF-16 object names for the entire lifetime of the current process. Changing the environment variables to another value changes the way filenames are converted in subsequently started child processes, but not within the same process.

[illegible] Cygwin [illegible]
Cygwin [illegible] LANG [illegible]
([illegible]Unix[illegible])

[illegible] test.c [illegible]

1. gcc test.c
2. cygwin [illegible]
3. cmd.exe [illegible]
4. c:\> echo test > [illegible].txt
5. c:\> set LANG=ja_JP.SJIS
6. c:\> a.exe > result_sjis.txt
7. c:\> set LANG=ja_JP.UTF-8
8. c:\> a.exe > result_utf8.txt

[illegible]

- result_sjis.txt [illegible] SJIS [illegible].txt[illegible]
- result_utf8.txt [illegible] UTF-8 [illegible].txt[illegible]

[illegible]LANG [illegible]
[illegible]

[illegible]1[illegible]

```
#<Encoding:Windows-31J>
"\x{E697}\xA5\x{E69C}\xAC\x{E8AA}\x9E.txt"
```

[illegible] UTF-8 [illegible] Windows-31J [illegible]
[illegible]
item.force_encoding('locale') [illegible]
[illegible]

Files

test.c	189 Bytes	01/15/2014	ganaware (Nayuta Taga)