Ruby - Bug #4491

Some methods of Dir/File do not encode dirname/filename transparently

03/10/2011 08:22 PM - yimutang (Joey Zhou)

Status:	Closed	
Priority:	Normal	
Assignee:	usa (Usaku NAKAMURA)	
Target version:		
ruby -v:	ruby 1.9.2p180 (2011-02-18) [i386-mingw32]	Backport:
Description		
=begin My Ruby version is: ruby 1.9.2p180 (2011-02-18) [i386-mingw32]		
My OS is Windows 7 (Simplified Chinese), its cmd.exe has a default codepage of CP936 (aka GBK), but I want my scripts to be written in UTF-8, so I've set the scripts' to UTF-8 and add "# encoding: utf-8" on the first line.		
I find when I open a file, the filename will be encoded to the system's locale charmap automatically:		
puts File.open("[][]file").readline #this will be fine, although the "[][]file" literal is UTF-8 puts File.open("[][]file".encode('utf-8')).readline #explicitly encoded puts File.open("[][]file".encode('gbk')).readline #explicitly encoded puts File.open("[][]file".encode('big5')).readline #explicitly encoded puts File.open("[][]file".encode('big5')).readline #all fine, all encoded to Encoding.locale_charmap before asking the OS for the file, no matter to what it's encoded here #all fine, all encoded to Encoding.locale_charmap before asking the OS for the		
I have tested many methods of File & Dir class, most of them have this intimate and convenient feature, but some are not:		
<pre>p Dir.entries("[][]dir".encode('gbk'))</pre>		
and a File method require encoding too:		
puts File.absolute_path("[]]file".encode('gbk'))		
These methods may be missed, they may should act the same way as Dir.chdir("[]]]dir") or File.open("[]]]dir"), with a feature of transparently encoding.		
Best regards.		
Joey =end		
Associated revisions		

Revision 22d5cf92 - 04/28/2011 07:22 AM - U.Nakamura

- win32/{win32.c,dir.h} (rb_w32_uopendir): new API to pass UTF-8 path.
- win32/win32.c (opendir_internal, rb_w32_opendir): extract and merge common part of rb_w32_opendir() and rb_w32_uopendir().
- dir.c (do_opendir, glob_helper): encoding.
- dir.c (dir_initialize, do_opendir): convert path to UTF-8 and call rb_w32_uopendir() instead of rb_w32_opendir() on Windows. fixes #4491, reported by Joey Zhou.

git-svn-id: svn+ssh://ci.ruby-lang.org/ruby/trunk@31372 b2dd03c8-39d4-4d8f-98ff-823fe69b080e

History

#1 - 04/26/2011 02:51 PM - yimutang (Joey Zhou)

=begin Is this issue forgotten? :) =end

#2 - 04/26/2011 06:13 PM - naruse (Yui NARUSE)

- Category set to M17N
- Status changed from Open to Assigned
- Assignee set to naruse (Yui NARUSE)

=begin

=end

#3 - 04/28/2011 02:15 PM - naruse (Yui NARUSE)

- Assignee changed from naruse (Yui NARUSE) to usa (Usaku NAKAMURA)

=begin

=end

#4 - 04/28/2011 02:53 PM - usa (Usaku NAKAMURA)

=begin We now consider that this is a bug.

Current code is too complex, so to judge the reason why somebody wrote such code is difficult. We want to get time a little more, sorry.

=end

#5 - 04/28/2011 04:22 PM - usa (Usaku NAKAMURA)

- Status changed from Assigned to Closed

- % Done changed from 0 to 100

=begin

This issue was solved with changeset r31372. Joey, thank you for reporting this issue. Your contribution to Ruby is greatly appreciated. May Ruby be with you.

- win32/{win32.c,dir.h} (rb_w32_uopendir): new API to pass UTF-8 path.
- win32/win32.c (opendir_internal, rb_w32_opendir): extract and merge common part of rb_w32_opendir() and rb_w32_uopendir().
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 =end