Ruby 1.8 - Bug #1594

Dir.foreach() mistakenly throws EINVAL in Windows

06/10/2009 12:55 AM - bdezonia (Barry DeZonia)

Status:	Assigned
Priority:	Normal
Assignee:	arton (Akio Tajima)
Target version:	
ruby -v:	ruby 1.8.6 (2007-09-24 patchlevel 111) [i386-mswin32]

Description

=begin
On Windows 2003 Server (64 bit) I use the attached script to trim files off a disk backup. This code runs fine for days and days but infrequently crashes on the same line of the script: (line 137 - Dir.foreach(copyFullDirName) do | dirEntry |).

The backtrace is:
D:/BackupScripts/trimMachines.rb:137:in open': Invalid argument - x:\.\document
s and settings\pdculbert\Desktop\Pedram stats\Raw BBS Data by State\FCV30ALL_TES
T\ComDyn (Errno::EINVAL)
from D:/BackupScripts/trimMachines.rb:137:inforeach'
from D:/BackupScripts/trimMachines.rb:137:in trimDirectory'
from D:/BackupScripts/trimMachines.rb:142:intrimDirectory'
from D:/BackupScripts/trimMachines.rb:137:in foreach'
from D:/BackupScripts/trimMachines.rb:137:intrimDirectory'
from D:/BackupScripts/trimMachines.rb:142:in trimDirectory'
from D:/BackupScripts/trimMachines.rb:137:inforeach'
from D:/BackupScripts/trimMachines.rb:137:in trimDirectory'
... 19 levels...
from D:/BackupScripts/trimMachines.rb:200:intrimMachines'
from D:/BackupScripts/trimMachines.rb:187:in foreach'
from D:/BackupScripts/trimMachines.rb:187:intrimMachines'
from D:/BackupScripts/trimMachines.rb:253

When I check out if the path specified is invalid it in fact exists, its file permissions are correct, etc. The biggest issue (I think) is that the directory contains 121,954 files. Note that the script loops over this directory a number of times successfully before it crashes on one pass some days (or weeks) later.

I've tested that the "x:\" notation is fine. The directory recursion level is only 8 levels and I don't get a stack too deep error.

Along the "x:\documents and settings\pdculbert\Desktop\Pedram stats\Raw BBS Data by State\FCV30ALL_TEST\ComDyn" path on the hard drive:

. contains 4 entries
documents and settings contains 17 entries
pdculbert contains 221 entries
Desktop contains 69 entries
Pedram stats contains 16 entries
Raw BBS Data by State contains 82 entries
FCV30ALL_TEST contains 5 entries
ComDyn contains 121,956 entries
=end

History

#1 - 06/10/2009 02:24 AM - bdezonia (Barry DeZonia)

- File trimMachines.rb added

=begin
I attached the wrong file. Please refer to this newly attached file trimMachines.rb
=end

#2 - 06/10/2009 03:04 AM - rogerdpack (Roger Pack)

=begin
do you have a way to recreate this easily?

You might want to try to step through with gdb and see what is going on :)
You might be able to set gdb to break on just the right line.

http://betterlogic.com/roger/?p=1440

My guess is that it's a windows OS "resource unavailable" or something that happens every so often when you hit it too hard. Trying with other versions of windows might help.

In the meantime you could add a begin/rescue around it to retry and see if that helps.

Cheers!
-=r
=end

#3 - 06/26/2011 01:54 PM - akr (Akira Tanaka)

- Project changed from Ruby to Ruby trunk

#4 - 06/26/2011 02:25 PM - naruse (Yui NARUSE)

- Status changed from Open to Assigned

- Assignee set to arton (Akio Tajima)

#5 - 06/26/2011 04:42 PM - nahi (Hiroshi Nakamura)

- Target version set to 1.9.3

#6 - 06/29/2011 03:31 PM - usa (Usaku NAKAMURA)

- Project changed from Ruby trunk to Ruby 1.8

- Target version deleted (1.9.3)

I can't reproduce at least with ruby 1.9, and the reporter says his ruby is 1.8.6.

Files

backup.rb	8.61 KB	06/10/2009	bdezonia (Barry DeZonia)
trimMachines.rb	7.25 KB	06/10/2009	bdezonia (Barry DeZonia)