

Ruby - Feature #6002

use IO#advise in FileUtils.compare_stream

02/11/2012 11:52 AM - Glass_saga (Masaki Matsushita)

Status:	Rejected																																																	
Priority:	Normal																																																	
Assignee:	kosaki (Motohiro KOSAKI)																																																	
Target version:																																																		
Description																																																		
=begin I propose to call IO#advise in FileUtils.compare_stream. It will increase performance. I created a dummy file: dd if=/dev/zero of=dummy bs=1M count=100 Then, I ran the following: <pre>require 'benchmark' require 'fileutils' path = "dummy" Benchmark.bm do x x.report do FileUtils.compare_file(path, path) end end</pre> I freed page cache before each test: sudo sysctl -w vm.drop_caches=1 results on Ubuntu 11.10(3.0.0-15-server): r34527: <table><tr><td>user</td><td>system</td><td>total</td><td>real</td></tr><tr><td>0.050000</td><td>0.260000</td><td>0.310000</td><td>(0.353097)</td></tr></table> <table><tr><td>user</td><td>system</td><td>total</td><td>real</td></tr><tr><td>0.030000</td><td>0.250000</td><td>0.280000</td><td>(0.320861)</td></tr></table> <table><tr><td>user</td><td>system</td><td>total</td><td>real</td></tr><tr><td>0.070000</td><td>0.250000</td><td>0.320000</td><td>(0.391100)</td></tr></table> proposal: <table><tr><td>user</td><td>system</td><td>total</td><td>real</td></tr><tr><td>0.050000</td><td>0.170000</td><td>0.220000</td><td>(0.235541)</td></tr></table> <table><tr><td>user</td><td>system</td><td>total</td><td>real</td></tr><tr><td>0.020000</td><td>0.150000</td><td>0.170000</td><td>(0.188613)</td></tr></table> <table><tr><td>user</td><td>system</td><td>total</td><td>real</td></tr><tr><td>0.030000</td><td>0.170000</td><td>0.200000</td><td>(0.201237)</td></tr></table> It shows the patch increases performance. =end			user	system	total	real	0.050000	0.260000	0.310000	(0.353097)	user	system	total	real	0.030000	0.250000	0.280000	(0.320861)	user	system	total	real	0.070000	0.250000	0.320000	(0.391100)	user	system	total	real	0.050000	0.170000	0.220000	(0.235541)	user	system	total	real	0.020000	0.150000	0.170000	(0.188613)	user	system	total	real	0.030000	0.170000	0.200000	(0.201237)
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History

#1 - 02/13/2012 03:11 PM - kosaki (Motohiro KOSAKI)

- *Status changed from Open to Assigned*
- *Assignee set to kosaki (Motohiro KOSAKI)*

OK, approved.

#2 - 06/14/2012 04:50 PM - kosaki (Motohiro KOSAKI)

- *Status changed from Assigned to Rejected*

akr-san, pointed out IO#advise may raise EINVAL exception when linux w/ tmpfs. (see [\[ruby-dev:45703\]](#))

Thus, we can't apply this patch.

Files

patch.diff	323 Bytes	02/11/2012	Glass_saga (Masaki Matsushita)
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