

Redmine - Patch #20369

Use String#casecmp for case insensitive comparison

2015-07-19 06:41 - Go MAEDA

Status: Closed	Start date:
Priority: Normal	Due date:
Assignee:	% Done: 0%
Category: Code cleanup/refactoring	Estimated time: 0.00 hour
Target version: 3.2.0	
Description	
String#casecmp is faster than String#downcase. We can save some CPU cycles by replacing String#downcase with String#casecmp.	
The following is a script to benchmark.	
<pre>#!/usr/bin/env ruby def measure(p) t1 = Time.now 1000000.times {p.call} t2 = Time.now t2 - t1 end str1 = (1..100).map {'A'..'z'}.to_a.sample}.join str2 = str1.downcase puts "String#casecmp : #{measure(->{ str1.casecmp(str2) == 0})} sec" puts "String#downcase : #{measure(->{ str1.downcase == str2 })} sec"</pre>	
Here is a result. casecmp is remarkably faster than downcase.	
<pre>laphroaig:patches maeda\$ ruby casecmp-vs-downcase.rb String#casecmp : 0.358929 sec String#downcase : 0.557218 sec</pre>	
Related issues:	
Related to Redmine - Defect #20278: Wrong syntax for resizing inline images w...	Closed
Related to Redmine - Defect #27780: Case-insensitive matching fails for Unico...	Closed

Associated revisions

Revision 14484 - 2015-08-12 14:54 - Toshi MARUYAMA

use String#casecmp for case insensitive comparison (#20369)

Contributed by Go MAEDA.

Revision 14498 - 2015-08-15 08:44 - Jean-Philippe Lang

#downcase no longer needed after r14484 (#20369).

Revision 14502 - 2015-08-15 09:07 - Jean-Philippe Lang

#downcase no longer needed after r14484 (#20369).

Revision 14676 - 2015-10-15 20:31 - Jean-Philippe Lang

Fixed unsafe call to #casecmp (#20369, #21000).

History

#1 - 2015-07-19 06:45 - Toshi MARUYAMA

- Target version set to 3.2.0

#2 - 2015-07-19 09:45 - Go MAEDA

- Related to Defect #20278: Wrong syntax for resizing inline images will throw a 500 error added

#3 - 2015-08-12 15:39 - Toshi MARUYAMA

- Status changed from New to Closed

Committed in trunk [r14484](#), thanks.

#4 - 2017-12-12 04:07 - Go MAEDA

- Related to Defect #27780: Case-insensitive matching fails for Unicode filenames when referring to attachments in text formatting added

Files

replace-downcase-with-cascmp.diff	4.57 KB	2015-07-19	Go MAEDA
-----------------------------------	---------	------------	----------