#### Redmine - Patch #20369

## Use String#casecmp for case insensitive comparison

2015-07-19 06:41 - Go MAEDA

Status:ClosedStart date:Priority:NormalDue date:

Assignee:

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.

% Done:

0%

The following is a script to benchmark.

#!/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 :  $\#\{measure(->\{ str1.downcase == str2 \})\} sec"$ 

Here is a result. casecmp is remarkably faster than downcase.

laphroaig:patches maeda\$ ruby casecmp-vs-downcase.rb

String#casecmp: 0.358929 sec String#downcase: 0.557218 sec

#### Related issues:

Related to Redmine - Defect # 20278: Wrong syntax for resizing inline images ...

Related to Redmine - Defect # 27780: Attachment sort doesn't work with Unicode

New

#### **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).

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## 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: Attachment sort doesn't work with Unicode added

### **Files**

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

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