Redmine - Patch #34153

Use sum instead of inject(0, :+)

2020-10-22 11:25 - Go MAEDA

Status: Closed
Priority: Normal
Assignee: Go MAEDA
Category: Performance
Target version: 4.2.0

Description
Array#sum introduced in Ruby 2.4 is much faster than Enumerable#inject.

```
require 'benchmark/ips'
numbers = (1..10).to_a
Benchmark.ips do |x|
  x.report('inject') do
    numbers.inject(0, :+)
  end
  x.report('sum') do
    numbers.sum
  end
  x.compare!
end

Warming up --------------------------------------
inject 169.646k i/100ms
sum 234.947k i/100ms
Calculating -------------------------------------
inject 1.692M (± 1.7%) i/s - 8.482M in 5.013728s
sum 2.347M (± 0.9%) i/s - 11.747M in 5.006572s
Comparison:
  sum: 2346592.2 i/s
  inject: 1692335.1 i/s - 1.39x (± 0.00) slower
```

I have generated the attached patch with rubocop-performance 1.8.1 (Performance/Sum).

Related issues:
Related to Redmine - Feature #34142: Drop Ruby 2.3 support

Associated revisions
Revision 20173 - 2020-10-24 03:39 - Go MAEDA
Use sum instead of inject(0, :+) (#34153).

Patch by Go MAEDA.

History
#1 - 2020-10-22 11:26 - Go MAEDA
- Related to Feature #25048: Ruby 2.4 support added

#2 - 2020-10-22 11:26 - Go MAEDA
- Related to Feature #34142: Drop Ruby 2.3 support added

#3 - 2020-10-22 11:26 - Go MAEDA
- Related to deleted (Feature #25048: Ruby 2.4 support)

#4 - 2020-10-22 11:27 - Go MAEDA

2024-04-14
- Target version set to 4.2.0

#5 - 2020-10-24 03:39 - Go MAEDA
- Status changed from New to Closed
- Assignee set to Go MAEDA

Committed the patch.

Files

| use-sum.patch | 2.43 KB | 2020-10-22 | Go MAEDA |