

Ruby - Bug #14695

[2.5.1] `===` is 1.77x slower than `match`?

04/18/2018 07:30 AM - baweaver (Brandon Weaver)

<div><div>Status:Closed</div><div>Priority:Normal</div><div>Assignee:</div><div>Target version:</div><div><div>ruby -v:</div><div>ruby 2.5.1p57 (2018-03-29 revision 63029) [x86_64-darwin17]</div></div></div>		<div><div>Backport:</div><div>2.3: UNKNOWN, 2.4: UNKNOWN, 2.5: UNKNOWN</div></div>	
<div><div>Description</div><div>Was evaluating some of the === implementations while testing and came across this one:</div><div><pre># ruby 2.5.1p57 (2018-03-29 revision 63029) [x86_64-darwin17] require 'benchmark/ips' def run_benchmark(title, **benchmarks) puts '', title, '=' * title.size, '' # Validation benchmarks.each do benchmark_name, benchmark_fn puts "#{benchmark_name} result: #{benchmark_fn.call()}" end puts Benchmark.ips do bm benchmarks.each do benchmark_name, benchmark_fn bm.report(benchmark_name, &benchmark_fn) end bm.compare! end end regex = /foo/ # => /foo/ string = 'foobarbaz' # => "foobarbaz" run_benchmark('=== vs match? - 2.5.1', '===': -> { regex === string }, 'match?': -> { regex.match? string }) === vs match? - 2.5.1 ===== === result: true match? result: true Warming up ----- === 173.435k i/100ms match? 233.124k i/100ms Calculating ----- === 3.174M (± 1.6%) i/s - 15.956M in 5.029027s match? 5.626M (± 2.5%) i/s - 28.208M in 5.016991s Comparison: match?: 5626170.1 i/s ===: 3173659.6 i/s - 1.77x slower</pre></div></div>			

It appears that === is running a bit slower than match?, though there may be some concerns around old code potentially relying on regex set globals after === too in case statements, so not sure there.

Related issues:

Related to Ruby - Feature #8110: Regex methods not changing global variables

Closed

History

#1 - 04/18/2018 07:57 AM - shyouhei (Shyouhei Urabe)

baweaver (Brandon Weaver) wrote:

It appears that === is running a bit slower than match?

Accurate observation. Regexp#match? was introduced as a "faster alternative" to ordinary matches; see also <https://bugs.ruby-lang.org/issues/8110>

#2 - 04/18/2018 07:57 AM - shyouhei (Shyouhei Urabe)

- Related to Feature #8110: Regex methods not changing global variables added

#3 - 07/29/2019 10:20 PM - jeremyevans0 (Jeremy Evans)

- Status changed from Open to Closed