Ruby - Feature #10326

[PATCH] optimize: recv << "literal string"

10/05/2014 09:29 AM - normalperson (Eric Wong)

Status:	Rejected			
Priority:	Normal			
Assignee:				
Target version:	2.2.0			
Description	2.2.0			
Concatenating literal strings to existing strings seems fairly common				
practice, so avoid extra garbage when doing it. I don't know if escape				
analysis is coming to Ruby, but this seems easier-to-do for now:				
vm2_strcat				
i = 0				
str = ""				
	<pre># benchmark loop 2</pre>			
i += 1 str << "const"				
str.clear				
end				
trunk 1.020890216				
trunk 1.018797116 trunk 0.992393447				
built 0.626914306				
built 0.627910138				
built 0.644469095				
benchmark results:				
minimum results in each 3 measurements.				
Execution time (sec)				
name trunk built				
++				
loop_whileloop2 0.160 vm2_strcat* 0.833 0.4				
vinz_sticat 0.055 0.4	00			
Speedup ratio: compare with the result of `trunk' (greater is better)				
name built				
+				
loop_whileloop2 1.006 vm2_strcat* 1.779				
Future optimizations:				
 recv << "interpolat 	ed #{dstr}"			
(immediate free +				
 elide allocation for str == "literal" and 	equality comparisons: "literal" == str			
 optimize << recv is 	s IO << (str dstr) (maybe)			
Related issues:				
	#10329: [PATCH 2/1] optimize: foo == "literal str	'ng"	Rejected	10/06/2014
- islated to riuby - reature		ч 9	nejeeleu	10/00/2014

#1 - 10/06/2014 02:32 AM - normalperson (Eric Wong)

- Related to Feature #10329: [PATCH 2/1] optimize: foo == "literal string" added

#2 - 10/07/2014 01:21 AM - normalperson (Eric Wong)

normalperson@yhbt.net wrote:

Future optimizations:

 recv << "interpolated #{dstr}" (immediate free + force recycle)

Tried, not worth it from what I can tell: <u>http://80x24.org/spew/m/7c7dd29f45920fb8fc9d2c72858334c60e0a9c58.txt</u> (however, a good learning experience for me)

> • elide allocation for equality comparisons: str == "literal" and "literal" == str

See [Feature <u>#10329</u>] and [Feature <u>#10333</u>]

• optimize << recv is IO << (str|dstr) (maybe)

I doubt it's worth the effort because of syscall overhead. This (\pm 10326) is fairly minor compared to the "==" optimizations in \pm 10329 and \pm 10333

#3 - 10/07/2014 03:55 AM - nobu (Nobuyoshi Nakada)

- Description updated

#4 - 10/24/2014 03:27 AM - normalperson (Eric Wong)

- Status changed from Open to Rejected

obsoleted by Feature #10423

Files

0001-optimize-recv-literal-string.patch

3.28 KB

10/05/2014

normalperson (Eric Wong)