Ruby master - Bug #10188
Regression of Benchmark.realtime
08/30/2014 05:56 AM - hsbt (Hiroshi SHIBATA)

<table>
<thead>
<tr>
<th>Status:</th>
<th>Rejected</th>
</tr>
</thead>
<tbody>
<tr>
<td>Priority:</td>
<td>Normal</td>
</tr>
<tr>
<td>Assignee:</td>
<td>normalperson (Eric Wong)</td>
</tr>
<tr>
<td>Target version:</td>
<td>ruby 2.2.0dev (2014-08-22 trunk 47254) [x86_64-darwin14]</td>
</tr>
</tbody>
</table>

**Description**

After r47260, rubyci is sometimes failed. It seems to relate https://bugs.ruby-lang.org/issues/10165.

- http://chkbuild001.hsbt.org/chkbuild/ruby-trunk/log/20140830T000025Z.fail.html.gz

I investigate this on Amazon Linux 2014.3

https://gist.github.com/hsbt/2647af71d60121034c1c

In this results, Benchmark.realtime { sleep 0.001 } returns 0.01 every 10 times.

   Eric Wong

   How about do you think this fail?

**History**

#1 - 08/30/2014 06:38 AM - normalperson (Eric Wong)

shibata.hiroshi@gmail.com wrote:

   I investigate this on Amazon Linux 2014.3

Is this shared machine/VM? What kernel config/version?

Kernel config may be in /proc/config.* , otherwise distros may put kernel config in /boot/config*

I'm mainly interested in *_HZ and preempt options.

   https://gist.github.com/hsbt/2647af71d60121034c1c

   In this results, Benchmark.realtime { sleep 0.001 } returns 0.01 every 10 times.

Yikes, wild timings :<

   Eric Wong

   How about do you think this fail?

I think the test case is too fragile. We should increase delta+sleep or remove test. Based on comments on thread_pthread.c, 0.1s might be a lower bound on portable timing granularity.

I think this can fail on your system even with the lib/benchmark.rb optimization in r47260 reverted.

#2 - 09/01/2014 06:21 AM - hsbt (Hiroshi SHIBATA)

Eric Wong wrote:
shibata.hiroshi@gmail.com wrote:

I investigate this on Amazon Linux 2014.3

Is this shared machine/VM? What kernel config/version?

It's VM(AWS)

$ uname -a
Linux chkbuild001.hsbt.org 3.10.40-50.136.amzn1.x86_64 #1 SMP Tue May 13 21:35:08 UTC 2014 x86_64 x86_64 x86_64 GNU/Linux

Kernel config may be in /proc/config.* , otherwise distros may put
kernel config in /boot/config*

I'm mainly interested in _HZ and preempt options.

[hsbt@chkbuild001 ~]$ cat /boot/config-3.10.53-56.140.amzn1.x86_64 | grep HZ
CONFIG_NO_HZ_COMMON=y
# CONFIG_HZ_PERIODIC is not set
CONFIG_NO_HZ_IDLE=y
# CONFIG_NO_HZ_FULL is not set
CONFIG_NO_HZ=y
# CONFIG_RCU_FAST_NO_HZ is not set
# CONFIG_HZ_100 is not set
CONFIG_HZ_250=y
# CONFIG_HZ_300 is not set
# CONFIG_HZ_1000 is not set
CONFIG_HZ=250

I think the test case is too fragile. We should increase delta+sleep or
remove test. Based on comments on thread_pthread.c, 0.1s might be a
lower bound on portable timing granularity.

I think this can fail on your system even with the lib/benchmark.rb
optimization in r47260 reverted.

nobu added workaround to this issue. I think this regression is only available on
virtual environment.

PS. we discussed this issue using Japanese:
https://twitter.com/kosaki55tea/status/505593070336081920

#3 - 01/05/2018 09:01 PM - naruse (Yui NARUSE)
- Target version deleted (2.2.0)

#4 - 01/31/2018 07:35 AM - hsbt (Hiroshi SHIBATA)
- Status changed from Open to Rejected

It already fixed current trunk and other branches.