

Ruby - Bug #5925

Lazy initialization is not thread safe.

01/24/2012 05:39 AM - xbaldauf (Xuân Baldauf)

Status:	Closed	Backport:
Priority:	Normal	
Assignee:		
Target version:	1.9.2	
ruby -v:	1.9.3p0	
Description		
Change http://svn.ruby-lang.org/cgi-bin/viewvc.cgi/trunk/lib/uri/common.rb?r1=26887&r2=26888& introduced lazy initialization of URI::TBLENCWWWCOMP_ . However, lazy initialization is not threadsafe. Specifically, http://svn.ruby-lang.org/cgi-bin/viewvc.cgi/trunk/lib/uri/common.rb?annotate=34214 line 873 contains the call <pre>TBLENCWWWCOMP_.replace(tbl)</pre> Under JRuby 1.6.4, this makes 2 threads which are simultaneously attempting to lazily initialize TBLENCWWWCOMP_ spin forever, under other VMs, the results may vary. Furthermore, the table TBLENCWWWCOMP_ will have 1025 entries, which is not really worth to delay initialization for. This bug makes Rack not threadsafe, which in turn makes Rails not threadsafe. See following JVM strack trace for further details how this can happen. <pre>""http-bio-3000"-exec-3" daemon prio=10 tid=0x00007ff3a0007000 nid=0x7b0 runnable [0x00000000452d2000] java.lang.Thread.State: RUNNABLE at org.jruby.RubyHash.internalGetEntry(RubyHash.java:507) at org.jruby.RubyHash.op_asetForString(RubyHash.java:901) at org.jruby.RubyHash.fastASetCheckString(RubyHash.java:862) at org.jruby.RubyHash.op_aset(RubyHash.java:888) at org.jruby.RubyHash\$26.visit(RubyHash.java:1625) at org.jruby.RubyHash.visitAll(RubyHash.java:594) at org.jruby.RubyHash.replaceCommon(RubyHash.java:1651) at org.jruby.RubyHash.replace(RubyHash.java:1623) at org.jruby.RubyHash\$i\$1\$0\$replace.call(RubyHash\$i\$1\$0\$replace.gen:65535) at org.jruby.runtime.callsite.CachingCallSite.call(CachingCallSite.java:167) at home.user.\$_dot_rvm.gems.jruby_minus_1_dot_6_dot_4.gems.jruby_minus_rack_minus_1_dot_1_dot_1.lib.jruby_minus_rack_minu s_1_dot_1_dot_1_dot_1_dot_jar.vendor.rack_minus_1_dot_3_dot_5.rack.backports.uri.common_18.chained_4_rescue_2\$RUBY\$SYNTHE TICdecode_www_form_component(file:/home/user/.rvm/gems/jruby-1.6.4/gems/jruby-rack-1.1.1/lib/jruby-rack-1.1.1.jar!/vendor/rack- 1.3.5/rack/backports/uri/common_18.rb:62) at home.user.\$_dot_rvm.gems.jruby_minus_1_dot_6_dot_4.gems.jruby_minus_rack_minus_1_dot_1_dot_1.lib.jruby_minus_rack_minu s_1_dot_1_dot_1_dot_1_dot_jar.vendor.rack_minus_1_dot_3_dot_5.rack.backports.uri.common_18.method__3\$RUBY\$decode_www_for m_component(file:/home/user/.rvm/gems/jruby-1.6.4/gems/jruby-rack-1.1.1/lib/jruby-rack-1.1.1.jar!/vendor/rack-1.3.5/rack/backports/ uri/common_18.rb:61) at home\$user\$\$_dot_rvm\$gems\$jruby_minus_1_dot_6_dot_4\$gems\$jruby_minus_rack_minus_1_dot_1_dot_1\$lib\$jruby_minus_rack_ minus_1_dot_1_dot_1_dot_1_dot_jar\$vendor\$rack_minus_1_dot_3_dot_5\$rack\$backports\$uri\$common_18\$method__3\$RUBY\$decode_ www_form_component.call(home\$user\$\$_dot_rvm\$gems\$jruby_minus_1_dot_6_dot_4\$gems\$jruby_minus_rack_minus_1_dot_1_d ot_1\$lib\$jruby_minus_rack_minus_1_dot_1_dot_1_dot_1_dot_jar\$vendor\$rack_minus_1_dot_3_dot_5\$rack\$backports\$uri\$common_18\$ method__3\$RUBY\$decode_www_form_component:65535) at org.jruby.internal.runtime.methods.DynamicMethod.call(DynamicMethod.java:211) at org.jruby.internal.runtime.methods.CompiledMethod.call(CompiledMethod.java:260) at org.jruby.runtime.callsite.CachingCallSite.call(CachingCallSite.java:167) at home.user.\$_dot_rvm.gems.jruby_minus_1_dot_6_dot_4.gems.jruby_minus_rack_minus_1_dot_1_dot_1.lib.jruby_minus_rack_minu s_1_dot_1_dot_1_dot_1_dot_jar.vendor.rack_minus_1_dot_3_dot_5.rack.utils.method__4\$RUBY\$unescape(file:/home/user/.rvm/gems/jrub y-1.6.4/gems/jruby-rack-1.1.1/lib/jruby-rack-1.1.1.jar!/vendor/rack-1.3.5/rack/utils.rb:37) at home\$user\$\$_dot_rvm\$gems\$jruby_minus_1_dot_6_dot_4\$gems\$jruby_minus_rack_minus_1_dot_1_dot_1\$lib\$jruby_minus_rack_</pre>		

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minus_1_dot_1_dot_1_dot_jar$vendor$rack_minus_1_dot_3_dot_5$rack$utils$method__4$RUBY$unescape.call(home$user$$_dot_rvm$gems$jruby_minus_1_dot_6_dot_4$gems$jruby_minus_rack_minus_1_dot_1_dot_1$lib$jruby_minus_rack_minus_1_dot_1_dot_1_dot_jar$vendor$rack_minus_1_dot_3_dot_5$rack$utils$method__4$RUBY$unescape:65535)
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at org.jruby.runtime.callsite.CachingCallSite.call(CachingCallSite.java:167)
at home.user.$
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(file:/home/user/.rvm/gems/jruby-1.6.4/gems/jruby-rack-1.1.1/lib/jruby-rack-1.1.1.jar!/rack/adapter/rails.rb:27)
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at org.jruby.runtime.callsite.CachingCallSite.cacheAndCall(CachingCallSite.java:312)
at org.jruby.runtime.callsite.CachingCallSite.call(CachingCallSite.java:169)
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home$user$$_dot_rvm$gems$jruby_minus_1_dot_6_dot_4$gems$jruby_minus_rack_minus_1_dot_1_dot_1$lib$jruby_minus_rack_minus_1_dot_1_dot_1_dot_jar$rack$handler$servlet$method__4$RUBY$call.call(home$user$$_dot_rvm$gems$jruby_minus_1_dot_6_dot_4$gems$jruby_minus_rack_minus_1_dot_1_dot_1$lib$jruby_minus_rack_minus_1_dot_1_dot_1_dot_jar$rack$handler$servlet$method__4$RUBY$call:65535)
at

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home$user$$_dot_rvm$gems$jruby_minus_1_dot_6_dot_4$gems$jruby_minus_rack_minus_1_dot_1_dot_1$lib$jruby_minus_rack_minus_1_dot_1_dot_1_dot_jar$rack$handler$ervlet$method__4$RUBY$call.call(home$user$$_dot_rvm$gems$jruby_minus_1_dot_6_dot_4$gems$jruby_minus_rack_minus_1_dot_1_dot_1$lib$jruby_minus_rack_minus_1_dot_1_dot_1_dot_jar$rack$handler$ervlet$method__4$RUBY$call:65535)
at org.jruby.RubyClass.invoke(RubyClass.java:686)
at org.jruby.javasupport.util.RuntimeHelpers.invoke(RuntimeHelpers.java:548)
at org.jruby.RubyBasicObject.callMethod(RubyBasicObject.java:358)
at org.jruby.javasupport.JavaEmbedUtils$1.callMethod(JavaEmbedUtils.java:143)
at org.jruby.rack.DefaultRackApplication.__call(DefaultRackApplication.java:66)
at org.jruby.rack.DefaultRackApplication.call(DefaultRackApplication.java:40)
at org.jruby.rack.AbstractRackDispatcher.process(AbstractRackDispatcher.java:29)
at org.jruby.rack.AbstractServlet.service(AbstractServlet.java:35)
at org.jruby.rack.AbstractServlet.service(AbstractServlet.java:42)
at org.apache.catalina.core.ApplicationFilterChain.internalDoFilter(ApplicationFilterChain.java:304)
at org.apache.catalina.core.ApplicationFilterChain.doFilter(ApplicationFilterChain.java:210)
at org.apache.catalina.core.StandardWrapperValve.invoke(StandardWrapperValve.java:240)
at org.apache.catalina.core.StandardContextValve.invoke(StandardContextValve.java:164)
at org.apache.catalina.authenticator.AuthenticatorBase.invoke(AuthenticatorBase.java:498)
at org.apache.catalina.core.StandardHostValve.invoke(StandardHostValve.java:164)
at org.apache.catalina.valves.ErrorReportValve.invoke(ErrorReportValve.java:100)
at org.apache.catalina.core.StandardEngineValve.invoke(StandardEngineValve.java:118)
at org.apache.catalina.connector.CoyoteAdapter.service(CoyoteAdapter.java:394)
at org.apache.coyote.http11.Http11Processor.process(Http11Processor.java:243)
at org.apache.coyote.http11.Http11Protocol$Http11ConnectionHandler.process(Http11Protocol.java:188)
at org.apache.coyote.http11.Http11Protocol$Http11ConnectionHandler.process(Http11Protocol.java:166)
at org.apache.tomcat.util.net.JIoEndpoint$SocketProcessor.run(JIoEndpoint.java:302)
- locked <0x00007ff3d293d2e0> (a org.apache.tomcat.util.net.SocketWrapper)
at java.util.concurrent.ThreadPoolExecutor$Worker.runTask(ThreadPoolExecutor.java:886)
at java.util.concurrent.ThreadPoolExecutor$Worker.run(ThreadPoolExecutor.java:908)
at java.lang.Thread.run(Thread.java:662)

""http-bio-3000"-exec-2" daemon prio=10 tid=0x00007ff3ac9b2800 nid=0x7af waiting on condition [0x00000000450d3000]
java.lang.Thread.State: WAITING (parking)
at sun.misc.Unsafe.park(Native Method)
- parking to wait for <0x00007ff3d2ad16b0> (a java.util.concurrent.locks.AbstractQueuedSynchronizer$ConditionObject)
at java.util.concurrent.locks.LockSupport.park(LockSupport.java:158)
at java.util.concurrent.locks.AbstractQueuedSynchronizer$ConditionObject.await(AbstractQueuedSynchronizer.java:1987)
at java.util.concurrent.LinkedBlockingQueue.take(LinkedBlockingQueue.java:399)
at org.apache.tomcat.util.threads.TaskQueue.take(TaskQueue.java:104)
at org.apache.tomcat.util.threads.TaskQueue.take(TaskQueue.java:32)
at java.util.concurrent.ThreadPoolExecutor.getTask(ThreadPoolExecutor.java:947)
at java.util.concurrent.ThreadPoolExecutor$Worker.run(ThreadPoolExecutor.java:907)
at java.lang.Thread.run(Thread.java:662)

""http-bio-3000"-exec-1" daemon prio=10 tid=0x00007ff3adba5800 nid=0x7ae runnable [0x0000000044ed0000]
java.lang.Thread.State: RUNNABLE
at org.jruby.RubyHash.internalGetEntry(RubyHash.java:507)
at org.jruby.RubyHash.op_asetForString(RubyHash.java:901)
at org.jruby.RubyHash.fastASetCheckString(RubyHash.java:862)
at org.jruby.RubyHash.op_aset(RubyHash.java:888)
at org.jruby.RubyHash$26.visit(RubyHash.java:1625)
at org.jruby.RubyHash.visitAll(RubyHash.java:594)
at org.jruby.RubyHash.replaceCommon(RubyHash.java:1651)
at org.jruby.RubyHash.replace(RubyHash.java:1623)
at org.jruby.RubyHash$i$1$0$replace.call(RubyHash$i$1$0$replace.gen:65535)
at org.jruby.runtime.callsite.CachingCallSite.cacheAndCall(CachingCallSite.java:312)
at org.jruby.runtime.callsite.CachingCallSite.call(CachingCallSite.java:169)
at
home.user.$_dot_rvm.gems$jruby_minus_1_dot_6_dot_4.gems$jruby_minus_rack_minus_1_dot_1_dot_1.lib$jruby_minus_rack_minus_1_dot_1_dot_1_dot_jar.vendor.rack_minus_1_dot_3_dot_5.rack.backports.uri.common_18.chained_4_rescue_2$RUBY$SYNTHETICdecode_www_form_component(file:/home/user/.rvm/gems/jruby-1.6.4/gems/jruby-rack-1.1.1/lib/jruby-rack-1.1.1.jar!/vendor/rack-1.3.5/rack/backports/uri/common_18.rb:62)
at
home.user.$_dot_rvm.gems$jruby_minus_1_dot_6_dot_4.gems$jruby_minus_rack_minus_1_dot_1_dot_1.lib$jruby_minus_rack_minus_1_dot_1_dot_1_dot_jar.vendor.rack_minus_1_dot_3_dot_5.rack.backports.uri.common_18.method__3$RUBY$decode_www_form_component(file:/home/user/.rvm/gems/jruby-1.6.4/gems/jruby-rack-1.1.1/lib/jruby-rack-1.1.1.jar!/vendor/rack-1.3.5/rack/backports/uri/common_18.rb:61)

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at
home$user$$_dot_rvm$gems$jruby_minus_1_dot_6_dot_4$gems$jruby_minus Rack_minus_1_dot_1_dot_1$lib$jruby_minus Rack_minus_1_dot_1_dot_1_dot_jar$vendor$rack_minus_1_dot_3_dot_5$rack$backports$uri$common_18$method__3$RUBY$decode_www_form_component.call(home$user$$_dot_rvm$gems$jruby_minus_1_dot_6_dot_4$gems$jruby_minus Rack_minus_1_dot_1_dot_1_dot_jar$vendor$rack_minus_1_dot_3_dot_5$rack$backports$uri$common_18$method__3$RUBY$decode_www_form_component:65535)
at org.jruby.internal.runtime.methods.DynamicMethod.call(DynamicMethod.java:211)
at org.jruby.internal.runtime.methods.CompiledMethod.call(CompiledMethod.java:260)
at org.jruby.runtime.callsite.CachingCallSite.call(CachingCallSite.java:167)
at
home.user.$_dot_rvm.gems.jruby_minus_1_dot_6_dot_4.gems.jruby_minus Rack_minus_1_dot_1_dot_1.lib.jruby_minus Rack_minus_1_dot_1_dot_1_dot_jar.vendor.rack_minus_1_dot_3_dot_5.rack.utils.method__4$RUBY$unescape(file:/home/user/.rvm/gems/jruby-1.6.4/gems/jruby-rack-1.1.1/lib/jruby-rack-1.1.1.jar!/vendor/rack-1.3.5/rack/utils.rb:37)
at
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at org.jruby.internal.runtime.methods.WrapperMethod.call(WrapperMethod.java:58)
at org.jruby.runtime.callsite.CachingCallSite.call(CachingCallSite.java:167)
at home.user.$
dot_rvm.gems.jruby_minus_1_dot_6_dot_4.gems.jruby_minus Rack_minus_1_dot_1_dot_1.lib.jruby_minus Rack_minus_1_dot_1_dot_1_dot_jar.rack.adapter.rails.method__4$RUBY$file_exist_p
(file:/home/user/.rvm/gems/jruby-1.6.4/gems/jruby-rack-1.1.1/lib/jruby-rack-1.1.1.jar!/rack/adapter/rails.rb:27)
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dot_rvm$gems$jruby_minus_1_dot_6_dot_4$gems$jruby_minus Rack_minus_1_dot_1_dot_1$lib$jruby_minus Rack_minus_1_dot_1_dot_1_dot_jar$rack$adapter$rails$method__4$RUBY$file_exist_p.call(home$user$$
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at org.jruby.runtime.callsite.CachingCallSite.call(CachingCallSite.java:167)
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home.user.$_dot_rvm.gems.jruby_minus_1_dot_6_dot_4.gems.jruby_minus Rack_minus_1_dot_1_dot_1.lib.jruby_minus Rack_minus_1_dot_1_dot_1_dot_jar.rack.adapter.rails.method__7$RUBY$call(file:/home/user/.rvm/gems/jruby-1.6.4/gems/jruby-rack-1.1.1/lib/jruby-rack-1.1.1.jar!/rack/adapter/rails.rb:46)
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at org.jruby.runtime.callsite.CachingCallSite.call(CachingCallSite.java:167)
at
home.user.$_dot_rvm.gems.jruby_minus_1_dot_6_dot_4.gems.jruby_minus Rack_minus_1_dot_1_dot_1.lib.jruby_minus Rack_minus_1_dot_1_dot_1_dot_jar.jruby.rack.rails.method__30$RUBY$call(file:/home/user/.rvm/gems/jruby-1.6.4/gems/jruby-rack-1.1.1/lib/jruby-rack-1.1.1.jar!/jruby/rack/rails.rb:186)
at
home$user$$_dot_rvm$gems$jruby_minus_1_dot_6_dot_4$gems$jruby_minus Rack_minus_1_dot_1_dot_1$lib$jruby_minus Rack_minus_1_dot_1_dot_1_dot_jar$jruby$rack$rails$method__30$RUBY$call.call(home$user$$_dot_rvm$gems$jruby_minus_1_dot_6_dot_4$gems$jruby_minus Rack_minus_1_dot_1_dot_1$lib$jruby_minus Rack_minus_1_dot_1_dot_1_dot_jar$jruby$rack$rails$method__30$RUBY$call:65535)
at
home$user$$_dot_rvm$gems$jruby_minus_1_dot_6_dot_4$gems$jruby_minus Rack_minus_1_dot_1_dot_1$lib$jruby_minus Rack_minus_1_dot_1_dot_1_dot_jar$jruby$rack$rails$method__30$RUBY$call.call(home$user$$_dot_rvm$gems$jruby_minus_1_dot_6

```

```
dot_4$gems$jruby_minus_rack_minus_1_dot_1_dot_1$lib$jruby_minus_rack_minus_1_dot_1_dot_1_dot_jar$jruby$rack$rails$method__30$RUBY$call:65535)
at org.jruby.runtime.callsite.CachingCallSite.call(CachingCallSite.java:167)
at
home.user.$_dot_rvm.gems.jruby_minus_1_dot_6_dot_4.gems.jruby_minus_rack_minus_1_dot_1_dot_1.lib.jruby_minus_rack_minus_1_dot_1_dot_1_dot_jar.rack.handler.servlet.method__4$RUBY$call(file:/home/user/.rvm/gems/jruby-1.6.4/gems/jruby-rack-1.1.1/lib/jruby-rack-1.1.1.jar!/rack/handler/servlet.rb:19)
at
home$user$$_dot_rvm$gems$jruby_minus_1_dot_6_dot_4$gems$jruby_minus_rack_minus_1_dot_1_dot_1$lib$jruby_minus_rack_minus_1_dot_1_dot_1_dot_jar$rack$handler$servlet$method__4$RUBY$call.call(home$user$$_dot_rvm$gems$jruby_minus_1_dot_6_dot_4$gems$jruby_minus_rack_minus_1_dot_1_dot_1$lib$jruby_minus_rack_minus_1_dot_1_dot_1_dot_jar$rack$handler$service$method__4$RUBY$call:65535)
at
home$user$$_dot_rvm$gems$jruby_minus_1_dot_6_dot_4$gems$jruby_minus_rack_minus_1_dot_1_dot_1$lib$jruby_minus_rack_minus_1_dot_1_dot_1_dot_jar$rack$handler$servlet$method__4$RUBY$call.call(home$user$$_dot_rvm$gems$jruby_minus_1_dot_6_dot_4$gems$jruby_minus_rack_minus_1_dot_1_dot_1$lib$jruby_minus_rack_minus_1_dot_1_dot_1_dot_jar$rack$handler$service$method__4$RUBY$call:65535)
at org.jruby.RubyClass.invoke(RubyClass.java:686)
at org.jruby.javasupport.util.RuntimeHelpers.invoke(RuntimeHelpers.java:548)
at org.jruby.RubyBasicObject.callMethod(RubyBasicObject.java:358)
at org.jruby.javasupport.JavaEmbedUtils$1.callMethod(JavaEmbedUtils.java:143)
at org.jruby.rack.DefaultRackApplication.__call(DefaultRackApplication.java:66)
at org.jruby.rack.DefaultRackApplication.call(DefaultRackApplication.java:40)
at org.jruby.rack.AbstractRackDispatcher.process(AbstractRackDispatcher.java:29)
at org.jruby.rack.AbstractServlet.service(AbstractServlet.java:35)
at org.jruby.rack.AbstractServlet.service(AbstractServlet.java:42)
at org.apache.catalina.core.ApplicationFilterChain.internalDoFilter(ApplicationFilterChain.java:304)
at org.apache.catalina.core.ApplicationFilterChain.doFilter(ApplicationFilterChain.java:210)
at org.apache.catalina.core.StandardWrapperValve.invoke(StandardWrapperValve.java:240)
at org.apache.catalina.core.StandardContextValve.invoke(StandardContextValve.java:164)
at org.apache.catalina.authenticator.AuthenticatorBase.invoke(AuthenticatorBase.java:498)
at org.apache.catalina.core.StandardHostValve.invoke(StandardHostValve.java:164)
at org.apache.catalina.valves.ErrorReportValve.invoke(ErrorReportValve.java:100)
at org.apache.catalina.core.StandardEngineValve.invoke(StandardEngineValve.java:118)
at org.apache.catalina.connector.CoyoteAdapter.service(CoyoteAdapter.java:394)
at org.apache.coyote.http11.Http11Processor.process(Http11Processor.java:243)
at org.apache.coyote.http11.Http11Protocol$Http11ConnectionHandler.process(Http11Protocol.java:188)
at org.apache.coyote.http11.Http11Protocol$Http11ConnectionHandler.process(Http11Protocol.java:166)
at org.apache.tomcat.util.net.JIoEndpoint$SocketProcessor.run(JIoEndpoint.java:302)
- locked <0x00007ff3d28c3118> (a org.apache.tomcat.util.net.SocketWrapper)
at java.util.concurrent.ThreadPoolExecutor$Worker.runTask(ThreadPoolExecutor.java:886)
at java.util.concurrent.ThreadPoolExecutor$Worker.run(ThreadPoolExecutor.java:908)
at java.lang.Thread.run(Thread.java:662)
```

Associated revisions

Revision [edb7cdf1](#) - 01/24/2012 02:52 AM - naruse (Yui NARUSE)

- lib/uri/common.rb (URI.encode_www_form_component): initialize on requiring to support JRuby, which runs parallel multithreads. [ruby-core:42222] [Bug #5925]
- lib/uri/common.rb (URI.decode_www_form_component): initialize on

git-svn-id: [svn-ssh://ci.ruby-lang.org/ruby/trunk@34364](https://ci.ruby-lang.org/ruby/trunk@34364) b2dd03c8-39d4-4d8f-98ff-823fe69b080e

Revision [746e61e9105ba841a87c1efbffd2d74cb74012b5](#) - 01/31/2012 07:10 PM - tenderlovmaking (Aaron Patterson)

merging r34364 from trunk to ruby_1_9_3

- lib/uri/common.rb (URI.encode_www_form_component): initialize on requiring to support JRuby, which runs parallel multithreads. [ruby-core:42222] [Bug #5925]
- lib/uri/common.rb (URI.decode_www_form_component): initialize on

git-svn-id: svn+ssh://ci.ruby-lang.org/ruby/branches/ruby_1_9_3@34405 b2dd03c8-39d4-4d8f-98ff-823fe69b080e

Revision 746e61e9 - 01/31/2012 07:10 PM - tenderlovmaking (Aaron Patterson)

merging r34364 from trunk to ruby_1_9_3

- lib/uri/common.rb (URI.encode_www_form_component): initialize on requiring to support JRuby, which runs parallel multithreads. [ruby-core:42222] [Bug #5925]
- lib/uri/common.rb (URI.decode_www_form_component): initialize on

git-svn-id: svn+ssh://ci.ruby-lang.org/ruby/branches/ruby_1_9_3@34405 b2dd03c8-39d4-4d8f-98ff-823fe69b080e

Revision 9cea14a8380b9e1f2f4bd8fec9e3c81bfe8056b0 - 01/31/2012 07:11 PM - tenderlovmaking (Aaron Patterson)

merging r34364 from trunk into ruby_1_9_2

- lib/uri/common.rb (URI.encode_www_form_component): initialize on requiring to support JRuby, which runs parallel multithreads. [ruby-core:42222] [Bug #5925]
- lib/uri/common.rb (URI.decode_www_form_component): initialize on

git-svn-id: svn+ssh://ci.ruby-lang.org/ruby/branches/ruby_1_9_2@34407 b2dd03c8-39d4-4d8f-98ff-823fe69b080e

Revision 9cea14a8 - 01/31/2012 07:11 PM - tenderlovmaking (Aaron Patterson)

merging r34364 from trunk into ruby_1_9_2

- lib/uri/common.rb (URI.encode_www_form_component): initialize on requiring to support JRuby, which runs parallel multithreads. [ruby-core:42222] [Bug #5925]
- lib/uri/common.rb (URI.decode_www_form_component): initialize on

git-svn-id: svn+ssh://ci.ruby-lang.org/ruby/branches/ruby_1_9_2@34407 b2dd03c8-39d4-4d8f-98ff-823fe69b080e

History

#1 - 01/24/2012 10:06 AM - nahi (Hiroshi Nakamura)

=begin

I think the author expected that Hash#replace is thread-safe, and it surely is in CRuby. (see rescue for double freeze)

```
TBLNCWWWCOMP_ = {} # :nodoc:
```

```
...
```

```
def self.encode_www_form_component(str)
```

```
  if TBLNCWWWCOMP_.empty?
```

```
    tbl = {}
```

```
    256.times do |i|
```

```
      tbl[i.chr] = '%%%02X' % i
```

```
    end
```

```
    tbl[' '] = '+'
```

```
    begin
```

```
      TBLNCWWWCOMP_.replace(tbl)
```

```
      TBLNCWWWCOMP_.freeze
```

```
    rescue
```

```
    end
```

```
  end
```

```
...
```

Someone can rewrite this with singleton.rb. Challenger?

=end

#2 - 01/24/2012 10:53 AM - Anonymous

On Tue, Jan 24, 2012 at 10:06:21AM +0900, Hiroshi Nakamura wrote:

Issue [#5925](#) has been updated by Hiroshi Nakamura.

=begin

I think the author expected that Hash#replace is thread-safe, and it surely is in CRuby. (see rescue for double freeze)

```
TBLNCWWWCOMP_ = {} # :nodoc:
...
def self.encode_www_form_component(str)
  if TBLNCWWWCOMP_.empty?
    tbl = {}
    256.times do |i|
      tbl[i.chr] = '%%%02X' % i
    end
    tbl[' '] = '+'
    begin
      TBLNCWWWCOMP_.replace(tbl)
      TBLNCWWWCOMP_.freeze
    rescue
    end
  end
  ...
end
```

Someone can rewrite this with singleton.rb. Challenger?

Why don't we just do it when the file is required? I know it adds overhead when the file is required, but that seems minimal when compared to the runtime savings.

I made a patch here:

<https://gist.github.com/1667280>

--

Aaron Patterson

<http://tenderlovmaking.com/>

#3 - 01/24/2012 11:52 AM - naruse (Yui NARUSE)

- Status changed from Open to Closed

- % Done changed from 0 to 100

This issue was solved with changeset r34364.

Xuân, thank you for reporting this issue.

Your contribution to Ruby is greatly appreciated.

May Ruby be with you.

-
- lib/uri/common.rb (URI.encode_www_form_component): initialize on requiring to support JRuby, which runs parallel multithreads. [\[ruby-core:42222\]](#) [Bug [#5925](#)]
 - lib/uri/common.rb (URI.decode_www_form_component): initialize on

#4 - 04/17/2012 08:27 AM - thomasinareckers (Thomas Inareckers)

Thanks Aaron

<http://remotedatabackuptips.posterous.com/>

Files

noname	500 Bytes	01/24/2012	Anonymous
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