

Ruby trunk - Feature #3251

allow to unlock mutex locked by another thread

05/06/2010 01:24 AM - mame (Yusuke Endoh)

Status:	Rejected
Priority:	Normal
Assignee:	ko1 (Koichi Sasada)
Target version:	2.0.0
Description	
<pre>=begin ##### ##### mutex lock ##### unlock ##### ##### 2 ##### 1) Python condition variable mutex ##### unlock ##### 2) Thread#raise race condition ##### (####) 1 #####Python condition variable ##### ##### def wait(m1) m2 = Mutex.new m2.lock @waiters << m2 m1.unlock begin m2.lock ensure m1.lock end end def signal @waiters.shift.unlock end #####wait ##### mutex lock ##### signal mutex ##### unlock ##### ##### ConditionVariable ##### Python ##### # ##### 2 ##### Thread#raise ##### race ##### t1: begin ##### t2: t1.raise [] t1: rescue/ensure ##### t3: t1.raise [] t1: rescue/ensure ##### # ##### race ##### #####Thread#raise Mutex#lock ##### race ##### t1: begin ##### t2: m.lock; t1.raise [] t1: rescue/ensure ##### t3: m.lock ##### t1.raise #####</pre>	

```
t1: 000000000000000000 m.unlock 00
t3: m.lock 000000 t1.raise 00
--
Yusuke Endoh mame@tsg.ne.jp
=end
```

Related issues:

Related to Ruby trunk - Bug #4285: Ruby don't have asynchronous exception sa... Closed 01/17/2011

History

#1 - 05/06/2010 01:55 AM - ko1 (Koichi Sasada)

```
=begin
00000000
```

(2010/05/06 1:24), Yusuke Endoh wrote::

Feature [#3251](#): allow to unlock mutex locked by another thread
<http://redmine.ruby-lang.org/issues/show/3251>

000: Yusuke Endoh
00000: Open, 000: Normal
000: Koichi Sasada, 00000: core, Target version: 1.9.x

00000

0000 mutex 0 lock 000000000000 unlock 00000000
000000000000000000000000 2 00000000

- 1) Python 0 condition variable 0 mutex 0000000000 unlock
000000000000000000000000
- 2) Thread#raise 0 race condition 000000000000 (00000)

0Python 000 Mutex 00000000000000000000000000000000

<http://ja.wikipedia.org/wiki/%E3%83%9F%E3%83%A5%E3%83%BC%E3%83%86%E3%83%83%E3%82%AF%E3%82%B9>

000000000000000000000000(P00)0000000000
0000(v00)00000000000000000000000000000000

00000000Mutex 00000000000000000000000000000000
00

00
000000 Ruby 00

00
00
0000Fiber 00

000000Mutex 0 critical section 000000000000
00lock/unlock 00000000000000000000000000000000
00CriticalSection 00000000000000000000000000000000

--
// SASADA Koichi at atdot dot net

=end

#2 - 05/06/2010 05:10 PM - kosaki (Motohiro KOSAKI)

```
=begin
kosaki00
```

00000000Mutex 00000000000000000000000000000000
00

00
000000 Ruby 00

00


```

t1: begin
t2: t1.raise
t1: rescue/ensure
t3: t1.raise
t1: rescue/ensure
Thread#raise Mutex#lock
race

```

```

open
open close

```

```

begin
f = open(filename)
ensure
f.close
end

```

```

open f
raise

```

```

ensure close
open IO

```

```

Mutex#lock
Thread#raise

```

```

Thread.raise mutex

```

```

# Thread 1
begin
m.synchronize do
f = open(filename)
end
# ...
ensure
f.close if f
m.unlock
end

```

```

# Thread 2
m.lock
th.raise

```

race

```

POSIX signal handler
handler

```

```

Ctrl+C ensure Interrupt
ensure

```

```

#

```

```

SIGINT Interrupt trap(:INT)

```

```

Ruby trap
trap (SIGINT)

```

```

--
Yusuke Endoh mame@tsg.ne.jp

```

=end

#5 - 09/14/2010 04:00 PM - shyouhei (Shyouhei Urabe)

- Status changed from Open to Assigned

=begin

=end

#6 - 06/26/2012 04:31 AM - ko1 (Koichi Sasada)

- Description updated

mutex semaphoe

#7 - 06/26/2012 04:55 AM - kosaki (Motohiro KOSAKI)

mutex semaphoe

#8 - 10/27/2012 05:43 AM - ko1 (Koichi Sasada)

- Status changed from Assigned to Rejected

Mutex reject ticket