

Ruby - Bug #4072

dRuby sleep exit

11/19/2010 05:50 PM - takkanm

Status:	Closed	Backport:
Priority:	Normal	
Assignee:	matz (Yukihiro Matsumoto)	
Target version:	1.9.2	
ruby -v:	-	
Description		
<pre>=begin ruby 1.9.2p0 (2010-08-18 revision 29036) [x86_64-darwin10.4.0] dRuby server client server->client server exit ruby 1.9.3dev (2010-11-19 trunk 29830) [x86_64-darwin10.5.0] ruby 1.8.7 (2010-08-16 patchlevel 302) [i686-darwin10.4.0] exit https://gist.github.com/706260 • server require 'drb' class Hello def hello(message) puts message end end begin DRb.start_service('druby://:12346', Hello.new) puts DRb.uri sleep rescue Object, SystemExit=> e p e.backtrace raise e rescue => e puts e end • client require 'drb' d = DRbObject.new_with_uri('druby://m-mimura-4.local:12346') d.hello "message" =end</pre>		
Related issues:		
Related to Ruby - Bug #4027: Signal.trap busy loop		Rejected 05/23/2011

Associated revisions

Revision 1a196574 - 06/25/2011 02:21 PM - nagachika (Tomoyuki Chikanaga)

- thread.c (rb_threadptr_check_signal): remove unnecessary th->status backup. fix race condition which may results unexpected main thread's status transition. see #4072

git-svn-id: svn+ssh://ci.ruby-lang.org/ruby/trunk@32225 b2dd03c8-39d4-4d8f-98ff-823fe69b080e

Revision fb72e453 - 06/25/2011 02:28 PM - nagachika (Tomoyuki Chikanaga)

- git-svn-id: [svn+ssh://ci.ruby-lang.org/ruby/trunk@32226](https://ci.ruby-lang.org/ruby/trunk@32226) b2dd03c8-39d4-4d8f-98ff-823fe69b080e

#1 - 11/19/2010 06:11 PM - takkanm ()

#2 - 11/20/2010 05:19 AM - ujihisa (Tatsuhiko Ujihisa)

#3 - 11/20/2010 10:21 AM - takkanm ()

```
=end
```

#5 - 06/23/2011 11:28 PM - nagachika (Tomoyuki Chikanaga)

- Status changed from Open to Closed

#6 - 06/24/2011 12:33 PM - kosaki (Motohiro KOSAKI)

Mac pthread_cond_wait()

http://www.opensource.apple.com/source/Libc/Libc-594.9.4/pthreads/pthread_cond.c

/★

- Suspend waiting for a condition variable.
- Note: we have to keep a list of condition variables which are using this same mutex variable so we can detect invalid 'destroy' sequences.
- If `isconforming < 0`, we skip the `_pthread_testcancel()`, but keep the remaining conforming behavior..

* /

```
private_extern int
pthread_cond_wait(pthread_cond_t *cond,
pthread_mutex_t *mutex,
const struct timespec abstime,
int isRelative,
int isconforming)
{
    (snip)
} else {
    if (wait_res < 0) {
        if (errno == ETIMEDOUT) {
            return ETIMEDOUT;
        } else if (errno == EINTR) {
            /
            ** EINTR can be treated as a spurious wakeup unless we were canceled.
            */
            return 0;
        }
        return EINVAL;
    }
    return 0;
}
}
```

[illegible][illegible]

#7 - 06/24/2011 01:28 PM - nagachika (Tomoyuki Chikanaga)

```

000000EINTR 0000000000 SIGPIPE 0 SIG DFL 0000000000000000

```

#8 - 06/24/2011 01:53 PM - nagachika (Tomoyuki Chikanaga)

```

00000000 SIG DFL 00000 SIG IGN 0000

```

```
pthread_mutex_t sleep_mutex = PTHREAD_MUTEX_INITIALIZER;
void *sleep_forever(void *) {
    pthread_mutex_lock(&sleep_mutex);
    while(1) {}
    pthread_mutex_unlock(&sleep_mutex);
    return NULL;
}
```

#9 - 06/24/2011 09:00 PM - nagachika (Tomoyuki Chikanaga)

- Status changed from Closed to Open

```

0000000000000000 open 0000
kosaki 000000000000 Kernel#sleep 000000000000000000000000 trunk 000000000000000000 sleep 000 darwin10.7.0 00
SIGINT  sleep 000000000000

```

```
Signal.trap(:INT){}
```

sleep

```
spurious wakeup
while RUBY_VM_CHECK_INTS() th->status != THREAD_RUNNABLE
  ;
end
```

#10 - 06/24/2011 10:29 PM - mame (Yusuke Endoh)

- ruby -v changed from ruby 1.9.2p0 (2010-08-18 revision 29036) [x86_64-darwin10.4.0] to -

~~~~~

2011/6/24 14:43 KOSAKI Motohiro [kosaki.motohiro@jp.fujitsu.com](mailto:kosaki.motohiro@jp.fujitsu.com):

```
thread.stop
process.sleep
thread.run
deadlock check
```

Thread.stop
deadlock
Kernel#sleep

```
Thread#run
Kernel#sleep
Ctrl-C
[ruby-dev:35330]
```

~~~~~

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Yusuke Endoh mame@tsg.ne.jp

#11 - 06/24/2011 10:29 PM - mame (Yusuke Endoh)

~~~~~

2011/6/24 14:43 KOSAKI Motohiro [kosaki.motohiro@jp.fujitsu.com](mailto:kosaki.motohiro@jp.fujitsu.com):

```
thread.stop
process.sleep
thread.run
deadlock check
```

Thread.stop
deadlock
Kernel#sleep

```
Thread#run
Kernel#sleep
Ctrl-C
[ruby-dev:35330]
```

~~~~~

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Yusuke Endoh mame@tsg.ne.jp

#12 - 06/24/2011 11:10 PM - nagachika (Tomoyuki Chikanaga)

- File sleep_forever.patch added

```
RUBY_VM_CHECK_INTS() th->status != THREAD_RUNNABLE
rb_threadptr_check_signal() status
mth->status = THREAD_RUNNABLE rb_threadptr_interrupt() status
rb_threadptr_execute_interrupts_rec() th->status
status rb_threadptr_check_signal()
```

sleep

#13 - 06/25/2011 09:20 AM - kosaki (Motohiro KOSAKI)

- Status changed from Open to Assigned
- Assignee set to matz (Yukihiro Matsumoto)

kosaki

unlock function GVL thread state OK

IRC mame

ruby -e 'trap(:INT) { }; sleep'

sleep

nagachika
trap sleep
sleep trap sleep

#14 - 06/25/2011 09:53 AM - kosaki (Motohiro KOSAKI)

2011 6 24 14:43 KOSAKI Motohiro kosaki.motohiro@jp.fujitsu.com:

thread.stop process.sleep thread.run
deadlock check

Thread.stop deadlock Kernel#
sleep

Thread.stop Thread#run (Kernel#
Kernel#sleep Ctrl-C
[ruby-dev:35330]

siggpipe
trap(:INT) { } Ruby wakeup

Unix
Windows JRuby

#15 - 06/25/2011 09:53 AM - kosaki (Motohiro KOSAKI)

2011 6 24 14:43 KOSAKI Motohiro kosaki.motohiro@jp.fujitsu.com:

thread.stop process.sleep thread.run
deadlock check

Thread.stop deadlock Kernel#
sleep

Thread.stop Thread#run (Kernel#
Kernel#sleep Ctrl-C
(
)
[ruby-dev:35330]

sigpipe
trap(:INT) { } Ruby wakeup

Unix
Windows JRuby

#16 - 06/25/2011 10:23 AM - matz (Yukihiro Matsumoto)

In message "Re: [ruby-dev:43895] [Ruby 1.9 - Bug #4072][Assigned] dRuby sleep exit"
on Sat, 25 Jun 2011 09:20:27 +0900, Motohiro KOSAKI kosaki.motohiro@gmail.com writes:

```
|IRC mame|
|
|ruby -e 'trap(:INT) { }; sleep'
|
|sleep
|
|
|
|
|
|
```

#17 - 06/25/2011 10:23 AM - matz (Yukihiro Matsumoto)

In message "Re: [ruby-dev:43895] [Ruby 1.9 - Bug #4072][Assigned] dRuby sleep exit"
on Sat, 25 Jun 2011 09:20:27 +0900, Motohiro KOSAKI kosaki.motohiro@gmail.com writes:

```
|IRC mame|
|
|ruby -e 'trap(:INT) { }; sleep'
|
|sleep
|
|
|
|
|
|
```

#18 - 06/25/2011 11:28 PM - nagachika (Tomoyuki Chikanaga)

- Status changed from Assigned to Closed
- % Done changed from 0 to 100

This issue was solved with changeset r32226.
, thank you for reporting this issue.
Your contribution to Ruby is greatly appreciated.
May Ruby be with you.

-
- thread.c (sleep_forever): now Kernel#sleep don't wakeup by signal handler execution. [Bug [#4072](#)]

Files

sleep_forever.patch	1.23 KB	06/24/2011	nagachika (Tomoyuki Chikanaga)
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