

Backport193 - Backport #5757

main thread read select ^C

12/13/2011 04:35 PM - naruse (Yui NARUSE)

Status:	Closed
Priority:	Normal
Assignee:	nagachika (Tomoyuki Chikanaga)
Description	
FreeBSD 9 <code>./ruby -c /usr/local/share/examples/miniruby -e'\$stdin.read'</code>	
main thread read select blocking region unblock.func ubf_select	
<ol style="list-style-type: none">1. sighandler rb_thread_wakeup_timer_thread()2. thread_timer() -> timer_thread_function() -> rb_threadptr_check_signal() -> rb_threadptr_interrupt() -> (th->unblock.func)(th->unblock.arg) -> ubf_select() -> rb_thread_wakeup_timer_thread()3. thread_timer() -> timer_thread_function() -> rb_threadptr_check_signal() -> rb_threadptr_interrupt() -> (th->unblock.func)(th->unblock.arg) -> ubf_select() -> rb_thread_wakeup_timer_thread()4. thread_timer() -> timer_thread_function() -> rb_threadptr_check_signal() -> rb_threadptr_interrupt() -> (th->unblock.func)(th->unblock.arg) -> ubf_select() -> rb_thread_wakeup_timer_thread() ...	
ubf_select() rb_thread_wakeup_timer_thread()	
Related issues:	
Related to Ruby master - Bug #5343: Unexpected blocking behavior when interr... Closed 09/20/2011	

Associated revisions

Revision 23f9e746 - 12/14/2011 02:26 AM - naruse (Yui NARUSE)

- thread_pthread.c (ubf_select): call rb_thread_wakeup_timer_thread() only when it is not timer_thread. [Bug #5757] [ruby-dev:44985] patched by Tomoyuki Chikanaga.

git-svn-id: svn+ssh://ci.ruby-lang.org/ruby/trunk@34038 b2dd03c8-39d4-4d8f-98ff-823fe69b080e

Revision 34038 - 12/14/2011 02:26 AM - naruse (Yui NARUSE)

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Revision 5dc6d20c - 02/03/2012 01:11 AM - naruse (Yui NARUSE)

merge revision(s) r34038,34099:

- * thread_pthread.c (ubf_select): call rb_thread_wakeup_timer_thread() only when it is not timer_thread. [Bug #5757] [ruby-dev:44985] patched by Tomoyuki Chikanaga.
- * thread_pthread.c (ping_signal_thread_list): remove return value.
- * thread_pthread.c (check_signal_thread_list): add a new function to check if signal thread list is empty.
- * thread_pthread.c (thread_timer): check signal thread list after timer_thread_function(). main thread might be added into signal thread list during timer_thread_function().

git-svn-id: svn+ssh://ci.ruby-lang.org/ruby/branches/ruby_1_9_3@34425 b2dd03c8-39d4-4d8f-98ff-823fe69b080e

Revision 34425 - 02/03/2012 01:11 AM - naruse (Yui NARUSE)

merge revision(s) r34038,34099:

- * thread_pthread.c (ubf_select): call rb_thread_wakeup_timer_thread() only when it is not timer_thread. [Bug #5757] [ruby-dev:44985] patched by Tomoyuki Chikanaga.
- * thread_pthread.c (ping_signal_thread_list): remove return value.
- * thread_pthread.c (check_signal_thread_list): add a new function to check if signal thread list is empty.
- * thread_pthread.c (thread_timer): check signal thread list after timer_thread_function(). main thread might be added into signal thread list during timer_thread_function().

History

#1 - 12/14/2011 02:34 AM - kosaki (Motohiro KOSAKI)

[Bug #5343](#) regression (193 [r33310](#)) Bug #5343

#2 - 12/14/2011 09:45 AM - nagachika (Tomoyuki Chikanaga)

[Bug #5343](#) Thread kill raise ubf_select() rb_thread_wakeup_timer_thread()

```
diff --git a/thread_pthread.c b/thread_pthread.c
index afef326..16f7674 100644
--- a/thread_pthread.c
+++ b/thread_pthread.c
@@ -924,6 +924,8 @@ native_sleep(rb_thread_t *th, struct timeval *timeout_tv)
 thread_debug("native_sleep done\n");
 }
```

```
+static pthread_t timer_thread_id;
+
+#ifdef USE_SIGNAL_THREAD_LIST
struct signal_thread_list {
rb_thread_t *th;
@@ -1018,7 +1020,8 @@ ubf_select(void *ptr)
{
rb_thread_t *th = (rb_thread_t *)ptr;
add_signal_thread_list(th);
```

- rb_thread_wakeup_timer_thread(); /* activate timer thread */
- if (pthread_self() != timer_thread_id)
- rb_thread_wakeup_timer_thread(); /* activate timer thread */ ubf_select_each(th); }

```
@@ -1047,7 +1050,6 @@ ping_signal_thread_list(void) {
```

```
static int ping_signal_thread_list(void) { return 0; }
#endif /* USE_SIGNAL_THREAD_LIST */
```

```
-static pthread_t timer_thread_id;
static int timer_thread_pipe[2] = {-1, -1};
static int timer_thread_pipe_owner_process;
```

#3 - 12/14/2011 10:53 AM - kosaki (Motohiro KOSAKI)

- ruby -v changed from ruby 2.0.0dev (2011-12-12 trunk 34015) [x86_64-freebsd9.0] to -

2011/12/13 19:45 Tomoyuki Chikanaga nagachika00@gmail.com:

Issue [#5757](#) has been updated by Tomoyuki Chikanaga.

Bug [#5343](#) `ubf_select()` `rb_thread_wakeup_timer_thread()` `kill` `raise` `ubf_select()` `rb_thread_wakeup_timer_thread()`

```
ubf_select(kill(VTALRM))
ubf_select_each
```

```
rb_thread_wakeup_timer_thread()
```

#4 - 12/14/2011 03:00 PM - naruse (Yui NARUSE)

- ruby -v changed from - to ruby 2.0.0dev (2011-12-12 trunk 34015) [x86_64-freebsd9.0]

```
rb_thread_kill
```

```
ubf_select(kill(VTALRM))
ubf_select_each
```

```
rb_thread_kill
rb_thread_wakeup_timer_thread()
```

```
[ruby-dev:44992]
r34038
```

#5 - 12/14/2011 03:23 PM - ko1 (Koichi Sasada)

- ruby -v changed from ruby 2.0.0dev (2011-12-12 trunk 34015) [x86_64-freebsd9.0] to -

(2011/12/14 15:00), Yui NARUSE wrote:

```
rb_thread_kill
```

```
rb_thread_wakeup_timer_thread()
```

--
// SASADA Koichi at atdot dot net

#6 - 12/14/2011 09:45 PM - nagachika (Tomoyuki Chikanaga)

- File `bug5757.patch` added

Motohiro KOSAKI wrote:

```
ubf_select(kill(VTALRM))
ubf_select_each
ubf_select()
blocking region
rb_threadptr_check_signal()
SIGVTALRM
```

thread_timer() ping_signal_thread_list() signal_thread_list timer_thread_function() signal_thread_list
signal_thread_list

#7 - 12/19/2011 02:13 AM - naruse (Yui NARUSE)

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

This issue was solved with changeset r34038.
Yui, thank you for reporting this issue.
Your contribution to Ruby is greatly appreciated.
May Ruby be with you.

-
- thread_pthread.c (ubf_select): call rb_thread_wakeup_timer_thread() only when it is not timer_thread. [Bug #5757] [ruby-dev:44985] patched by Tomoyuki Chikanaga.

#8 - 12/21/2011 06:41 PM - nagachika (Tomoyuki Chikanaga)

- Status changed from Closed to Open

[ruby-dev:44999] open

#9 - 12/21/2011 11:26 PM - kosaki (Motohiro KOSAKI)

- Status changed from Open to Assigned
- Assignee set to kosaki (Motohiro KOSAKI)

#10 - 12/22/2011 01:35 AM - kosaki (Motohiro KOSAKI)

- Assignee changed from kosaki (Motohiro KOSAKI) to nagachika (Tomoyuki Chikanaga)

[ruby-dev:44999]

#11 - 12/22/2011 10:47 PM - nagachika (Tomoyuki Chikanaga)

r34099

#12 - 12/22/2011 10:47 PM - nagachika (Tomoyuki Chikanaga)

- Status changed from Assigned to Closed

#13 - 01/15/2012 04:45 PM - naruse (Yui NARUSE)

- Tracker changed from Bug to Backport
- Project changed from Ruby master to Backport193
- Status changed from Closed to Open

#14 - 02/03/2012 10:11 AM - naruse (Yui NARUSE)

- Status changed from Open to Closed

This issue was solved with changeset [r34425](#).
Yui, thank you for reporting this issue.
Your contribution to Ruby is greatly appreciated.
May Ruby be with you.

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```
check if signal thread list is empty.
```

```
* thread_pthread.c (thread_timer): check signal thread list after  
timer_thread_function(). main thread might be added into signal thread  
list during timer_thread_function().
```

Files

bug5757.patch	1.26 KB	12/14/2011	nagachika (Tomoyuki Chikanaga)
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