## Ruby - Bug #15644

## ThreadsWait problems with Thread#report\_on\_exception

03/06/2019 01:20 PM - kke (Kimmo Lehto)

Status: Closed Priority: Normal

**Assignee:** keiju (Keiju Ishitsuka)

Target version:

**ruby -v:** ruby 2.6.1p33 (2019-01-30 revision

66950) [x86\_64-darwin18]

Backport: 2.4: UNKNOWN, 2.5: UNKNOWN, 2.6:

**UNKNOWN** 

### **Description**

Using ThreadsWait with Thread.report\_on\_exception is confusing.

ThreadsWait spawns a new thread for waiting on a thread:

```
# thwait.rb:87
def join_nowait(*threads)
  threads.flatten!
  @threads.concat threads
  for th in threads
   Thread.start(th) do |t|
   begin
       t.join
   ensure
      @wait_queue.push t
   end
  end
  end
end
```

The t.join in ThreadsWait will re-raise the exceptions that happen in the thread being waited on.

If the thread being waited on was using report\_on\_exception = false, the wait thread will report the exception and the report\_on\_exception = false effectively did nothing, as you still got an exception report.

If the thread was using report on exception = true, both threads will report the exception, so you get it twice.

I think this could be fixed by always setting report\_on\_exception = false for the wait thread.

# **Example 1**

```
require 'thwait'

thread = Thread.new do
   Thread.current.report_on_exception = false
   sleep 1
   raise "Foo"
end

ThreadsWait.all_waits(thread) do |terminated_thread|
   puts "Thread #{terminated_thread} terminated"
end
```

# **Expected result**

No exception reports

## **Actual result**

The wait thread will report the exception:

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#<Thread:0x00007fa57d092d68@/Users/user/.rbenv/versions/2.6.1/lib/ruby/2.6.0/thwait.rb:91 run> ter minated with exception (report\_on\_exception is true):

# **Example 2**

```
require 'thwait'

thread = Thread.new do
    sleep 1
    raise "Foo"
end

ThreadsWait.all_waits(thread) do |terminated_thread|
    puts "Thread #{terminated_thread} terminated"
end
```

# **Expected result**

One exception report

### **Actual result**

Two exception reports:

```
#<Thread:0x00007f9f83053320@test.rb:3 run> terminated with exception (report_on_exception is true)
:
#<Thread:0x00007f9f830530a0@/Users/user/.rbenv/versions/2.6.1/lib/ruby/2.6.0/thwait.rb:91 run> ter
minated with exception (report_on_exception is true):
Traceback (most recent call last):
```

#### History

### #1 - 03/06/2019 02:23 PM - kke (Kimmo Lehto)

- Description updated

#### #2 - 03/06/2019 02:26 PM - kke (Kimmo Lehto)

- Description updated

#### #3 - 03/13/2019 12:04 PM - kke (Kimmo Lehto)

- Description updated

### #4 - 10/17/2019 06:49 PM - jeremyevans0 (Jeremy Evans)

- Status changed from Open to Assigned
- Assignee set to keiju (Keiju Ishitsuka)

I agree this is a bug that should be fixed. I have submitted a pull request to fix it: https://github.com/ruby/thwait/pull/1

## #5 - 06/08/2022 03:44 PM - jeremyevans0 (Jeremy Evans)

- Status changed from Assigned to Closed

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