

Ruby - Bug #15315

ec_switch can still lose interrupts

11/18/2018 12:50 AM - normalperson (Eric Wong)

Status:	Assigned	Backport: 2.3: UNKNOWN, 2.4: UNKNOWN, 2.5: UNKNOWN
Priority:	Normal	
Assignee:	ko1 (Koichi Sasada)	
Target version:		
ruby -v:		
Description		
ec_switch and thread switching may still lose interrupts		
trap interrupt is OK because of r64062		
Not OK:		
1. postponed job interrupt from MJIT worker This is trickiest to solve because it also affects thread switching, not just EC switching		
2. pending interrupt is not safe but fixing ec_switch is sufficient because rb_threadptr_interrupt only targets threads, not EC.		
3. timer interrupt is not critical because another interrupt will fire in 100ms		
Solutions:		
moving interrupt_flag back to rb_thread_t will solve 2 and 3		
1. will remain dangerous, we need to add extra checks at thread switching because MJIT worker may get stuck if target thread stalls or dies.		

History

#1 - 11/18/2018 01:11 AM - normalperson (Eric Wong)

- File 0001-vm_core.h-move-interrupt_flag-back-to-rb_thread_t.patch added

#2 - 11/19/2018 01:40 PM - k0kubun (Takashi Kokubun)

1. will remain dangerous

Is this about Bug #15316?

#3 - 11/20/2018 09:32 AM - normalperson (Eric Wong)

takashikkbn@gmail.com wrote:

1. will remain dangerous

Is this about Bug #15316?

Partially, yes (sorry, just (mostly) wrapped up Thread::Light for review on Linux and unlikely to be online much due to family stuff.

#4 - 04/03/2024 03:50 AM - hsb (Hiroshi SHIBATA)

- Status changed from Open to Assigned

Files

0001-vm_core.h-move-interrupt_flag-back-to-rb_thread_t.patch	4.54 KB	11/18/2018	normalperson (Eric Wong)
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