

Ruby - Bug #4770

[Q] thread->interrupt_flag

05/23/2011 09:45 AM - kosaki (Motohiro KOSAKI)

Status:	Closed	Backport:
Priority:	Normal	
Assignee:	kosaki (Motohiro KOSAKI)	
Target version:	1.9.3	
ruby -v:	-	

Description

kosaki

Ruby VM internal
thread->interrupt_flag

```
#define RUBY_VM_SET_INTERRUPT(th) ((th)->interrupt_flag |= 0x02)
#define RUBY_VM_SET_TIMER_INTERRUPT(th) ((th)->interrupt_flag |= 0x01)
#define RUBY_VM_SET_FINALIZER_INTERRUPT(th) ((th)->interrupt_flag |= 0x04)
#define RUBY_VM_INTERRUPTED(th) ((th)->interrupt_flag & 0x02)
```

GVL

```
static void
rb_threadptr_execute_interrupts_rec(rb_thread_t *th, int sched_depth)
{
    (snip)

    while (th->interrupt_flag) {
        enum rb_thread_status status = th->status;
        int timer_interrupt = th->interrupt_flag & 0x01;
        int finalizer_interrupt = th->interrupt_flag & 0x04;
        th->interrupt_flag = 0;

        TIMER_INTERRUPT bit timer_thread_lock

static void
timer_thread_function(void *arg)
{
    rb_vm_t vm = GET_VM(); /TODO: fix me for Multi-VM */

    /* for time slice */
    RUBY_VM_SET_TIMER_INTERRUPT(vm->running_thread);

thread.c RUBY_VM_SET_INTERRUPT thread->interrupt_lock
cont.c

gc.c RUBY_VM_SET_FINALIZER_INTERRUPT

interrupt_lock native_mutex_lock()
thread.c
```

History

- #1 - 05/23/2011 09:46 AM - kosaki (Motohiro KOSAKI)
- File 0001-interrupt-flag.patch added

- Category set to core
- Status changed from Open to Assigned
- Assignee set to kosaki (Motohiro KOSAKI)
- Target version set to 1.9.3

#2 - 06/11/2011 11:48 PM - kosaki (Motohiro KOSAKI)

- Status changed from Assigned to Closed

Files

0001-interrupt-flag.patch	7.53 KB	05/23/2011	kosaki (Motohiro KOSAKI)
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