


```
#ifndef MINSIGSTKSZ
-#define ALT_STACK_SIZE (MINSIGSTKSZ*2)
+#define ALT_STACK_SIZE (MINSIGSTKSZ*10)
#else
-#define ALT_STACK_SIZE (4*1024)
+#define ALT_STACK_SIZE (20*1024)
#endif
```

```
typedef struct rb_thread_struct {
```

```
□□□□□□□□□□□□□□□□
```

<http://bugs.ruby-lang.org/issues/5139>

Related issues:

Related to Ruby trunk - Bug #953: □□□□□□□□□□□□□□□□	Closed	12/30/2008
Related to Ruby trunk - Bug #5139: sigsegrv □□□□□□□□□□□□	Closed	08/02/2011
Related to Ruby trunk - Feature #7095: Non-recursive marking	Closed	10/02/2012
Related to Ruby trunk - Bug #6058: Stack overflow in SEGV Handler	Closed	02/22/2012

Associated revisions

Revision aff9dff4 - 12/15/2012 02:20 PM - kosaki (Motohiro KOSAKI)

- signal.c (rb_sigaltstack_size): new. calculate stack size for sigsegrv handler. enlarge value when x86 or x86_64 on Linux. Linux has very small MINSIGSTKSZ size (2048 bytes) and our sigsegrv routine need 5KiB at least. [Bug #7141]
- internal.h: add declaration of rb_sigaltstack_size().
- vm_core.h: remove ALT_STACK_SIZE definition.
- signal.c (rb_register_sigaltstack): replace ALT_STACK_SIZE with rb_sigaltstack_size();
- gc.c (Init_heap): ditto.
- vm.c (th_init): ditto.

git-svn-id: svn+ssh://ci.ruby-lang.org/ruby/trunk@38409 b2dd03c8-39d4-4d8f-98ff-823fe69b080e

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History

#1 - 10/12/2012 07:28 AM - kosaki (Motohiro KOSAKI)

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

```
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
```

#2 - 12/15/2012 10:30 PM - kosaki (Motohiro KOSAKI)

```
XXXXXXXXXXXXXXXXXXXXXXXXXXXX
```

```
setarch x86_64 -R ./miniruby -e 'Process.kill :SEGV, $$'
```

```
altstack: 0x7fff7d83000-0x7fff7d84000...0x7fff7d85000-0x7fff7d86000
```

	\$RSP	stack_usage	stack_usage_total
#0 BSD_vfprintf	0x7fff7d83e60	1520	
#2 control_frame_dump	0x7fff7d84450	320 1840	
#3 rb_vmdebug_stack_dump_raw	0x7fff7d84590	288 2128	
#4 rb_vm_bugreport	0x7fff7d846b0	328 2456	
#5 report_bug	0x7fff7d84820	336 2792	
#6 rb_bug	0x7fff7d84970	272 3064	
#7 sigsegv	0x7fff7d84a80		

```

BSD_vfprintf char buf[1024] float
68 OK float alloca
2.0 ALT_STACK_SIZE 4096 8192

```

```

fprintf
snprintf + write
ruby snprintf thread safe async signal safe

```

#3 - 12/15/2012 11:20 PM - kosaki (Motohiro KOSAKI)

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

This issue was solved with changeset r38409.
 Narihiro, thank you for reporting this issue.
 Your contribution to Ruby is greatly appreciated.
 May Ruby be with you.

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#4 - 12/15/2012 11:38 PM - kosaki (Motohiro KOSAKI)

```

glibc_vfprintf ruby_vfprintf

```

