Ruby master - Bug #4566

followup of [ruby-core:32747]

04/10/2011 01:41 PM - jojelino (jojelino _)

Status:	Third Party's Issue		
Priority:	Normal		
Assignee:	nobu (Nobuyoshi Nakada)		
Target version:	1.9.3		
ruby -v:	revision 31234	**Backport:**	

Description

=begin
[ruby-core:32747]

Index: vm_exec.c
===
--- vm_exec.c   (revision 31234)
+++ vm_exec.c   (working copy)
@@ -11,7 +11,7 @@

#include

-#if VMDEBUG > 0
+#if (VMDEBUG > 0) | ((**GNUC** >= 4) && (**GNUC_MINOR** >= 6) && (**GNUC_PATCHLEVEL** >= 0))
#define DECL_SC_REG(type, r, reg) register type reg_##r

#elif **GNUC** && **x86_64** && !**clang**

please apply this, it resolves segmentation fault in gcc > 4.6
specifying register name explicitly fails. although it worked in previous version.
if you continue using explicit register name, you gotta find workaround about it ;)
=end

History

#1 - 04/11/2011 11:24 AM - naruse (Yui NARUSE)

=begin
The patch seems wrong: first is the way check the gcc version,
and the condition also wrong.

Additional to say, I doubt that this bug is reproduced only on mingw32.
=end

#2 - 04/12/2011 04:17 AM - jojelino (jojelino _)

=begin

> The patch seems wrong: first is the way check the gcc version, and the condition also wrong.

the definitive solution would be leaving only following line

:#define DECL_SC_REG(type, r, reg) register type reg_##r

> I doubt that this bug is reproduced only on mingw32.

to be honest, it doesn't be reproduced without -O flag. sure it was mingw32.

so i would like to say %edi & %esi is now clobbered for >=gcc 4.6 with optimization option
enabled.
=end

#3 - 04/15/2011 03:08 PM - naruse (Yui NARUSE)

- Status changed from Open to Assigned

- Assignee set to nobu (Nobuyoshi Nakada)

=begin
FYI, on FreeBSD 8.1 and gcc4.6 -O3, it wokrs.
=end

#4 - 07/08/2011 05:24 PM - kosaki (Motohiro KOSAKI)

- Status changed from Assigned to Third Party's Issue

I'm using Linux Fedora 15 and following gcc version. It also works fine without the patch.
So, this is obviously no ruby issue. Please update gcc.

% LANG=C gcc -v
LANG=C gcc -v
Using built-in specs.
COLLECT_GCC=/usr/bin/gcc
COLLECT_LTO_WRAPPER=/usr/libexec/gcc/x86_64-redhat-linux/4.6.0/lto-wrapper
Target: x86_64-redhat-linux
Configured with: ../configure --prefix=/usr --mandir=/usr/share/man --infodir=/usr/share/info --with-bugurl=http://bugzilla.\
redhat.com/bugzilla --enable-bootstrap --enable-shared --enable-threads=posix --enable-checking=release --with-system-zlib -\
-enable-__cxa_atexit --disable-libunwind-exceptions --enable-gnu-unique-object --enable-linker-build-id --enable-languages=c\
,c++,objc,obj-c++,java,fortran,ada,go,lto --enable-plugin --enable-java-awt=gtk --disable-dssi --with-java-home=/usr/lib/jvm\
/java-1.5.0-gcj-1.5.0.0/jre --enable-libgcj-multifile --enable-java-maintainer-mode --with-ecj-jar=/usr/share/java/eclipse-e\
cj.jar --disable-libjava-multilib --with-ppl --with-cloog --with-tune=generic --with-arch_32=i686 --build=x86_64-redhat-linu\
x
Thread model: posix
gcc version 4.6.0 20110530 (Red Hat 4.6.0-9) (GCC)