Log in / Register



Error: lo register required

Linaro GCC » Bugs » Bug #735951

Reported by Barry Song on 2011-03-16

This bug report was converted into a question: question #149381: Error: lo register required.

This bug affects 1 person

Affects Status **Importance** Assigned to Milestone Linaro Invalid 🕐 Undecided Unassigned GCC

Also affects project Also affects distribution Nominate for series

Bug Description

I am using the following linaro GCC: arm-linux-gnueabi-gcc-4.4 -v

--with-libs=/usr/arm-linux-gnueabi/lib

Using built-in specs.

Target: arm-linux-gnueabi

Configured with: ../src/configure -v --with-pkgversion='Ubuntu/Linaro 4.4.4-14ubuntu4' --with-bugurl=file:///usr/share/doc/gcc-4.4/README.Bugs --enablelanguages=c,c++,fortran,objc,obj-c++ --prefix=/usr --program-suffix=-4.4 -enable-shared --enable-multiarch --enable-linker-build-id --with-system-zlib --libexecdir=/usr/lib --without-included-gettext --enable-threads=posix -with-gxx-include-dir=/usr/arm-linux-gnueabi/include/c++/4.4.5 -libdir=/usr/lib --enable-nls --enable-clocale=gnu --enable-libstdcxx-debug -enable-objc-gc --disable-sjlj-exceptions --with-arch=armv7-a --withfloat=softfp --with-fpu=vfpv3-d16 --with-mode=thumb --disable-werror -enable-checking=release --program-prefix=arm-linux-gnueabi- --includedir= /usr/arm-linux-qnueabi/include --build=x86 64-linux-qnu --host=x86 64-linuxgnu --target=arm-linux-gnueabi --with-headers=/usr/arm-linux-gnueabi/include

Report a bug

This report contains **Public** information

Everyone can see this information.

Mark as duplicate

Convert back to a bug Link a related branch Link to CVE

not directly You are subscribed to this bug's notifications.

Edit bug mail

Other bug subscribers

Subscribe someone else

Notified of all changes

Barry Song

May be notified

Arun Thomas Dfalko89

```
Thread model: posix
gcc version 4.4.5 (Ubuntu/Linaro 4.4.4-14ubuntu4)
And I can't pass the compiling of attached stubs.c, which can be compiled by
old codesourcery toolchain. Log is:
arm-linux-gnueabi-gcc -g -Os -fno-optimize-sibling-calls -fno-strict-aliasing
-fno-common -msoft-float -ffixed-r8 -D__KERNEL__ -DTEXT_BASE=0xC1000000 -
I/home/src/out/target/product/android/primacb/obj/bootloader/uboot/include2 -
I/home/src/out/target/product/android/primacb/obj/bootloader/uboot/include -
I/home/src/vendor/sirf/linux/bootloader/uboot/include -fno-builtin -
ffreestanding -nostdinc -isystem /usr/lib/gcc/arm-linux-gnueabi/4.4.5/include
-pipe -DCONFIG_ARM -D__ARM__ -march=armv6 -Wall -Wstrict-prototypes -c -o
/home/src/out/target/product/android/primacb/obj/bootloader/uboot/examples/
stubs.o stubs.c
{standard input}: Assembler messages:
{standard input}:38: Error: lo register required -- `ldr ip,[r8,#32]'
{standard input}:39: Error: lo register required -- `ldr pc,[ip,#0]'
{standard input}:46: Error: lo register required -- `ldr ip,[r8,#32]'
{standard input}:47: Error: lo register required -- `ldr pc,[ip,#4]'
{standard input}:54: Error: lo register required -- `ldr ip,[r8,#32]'
{standard input}:55: Error: lo register required -- `ldr pc,[ip,#8]'
{standard input}:62: Error: lo register required -- `ldr ip,[r8,#32]'
{standard input}:63: Error: lo register required -- `ldr pc,[ip,#12]'
{standard input}:70: Error: lo register required -- `ldr ip,[r8,#32]'
{standard input}:71: Error: lo register required -- `ldr pc,[ip,#16]'
{standard input}:78: Error: lo register required -- `ldr ip,[r8,#32]'
{standard input}:79: Error: lo register required -- `ldr pc,[ip,#20]'
{standard input}:86: Error: lo register required -- `ldr ip,[r8,#32]'
{standard input}:87: Error: lo register required -- `ldr pc,[ip,#24]'
{standard input}:94: Error: lo register required -- `ldr ip,[r8,#32]'
{standard input}:95: Error: lo register required -- `ldr pc,[ip,#28]'
{standard input}:102: Error: lo register required -- `ldr ip,[r8,#32]'
{standard input}:103: Error: lo register required -- `ldr pc,[ip,#32]'
{standard input}:110: Error: lo register required -- `ldr ip,[r8,#32]'
{standard input}:111: Error: lo register required -- `ldr pc,[ip,#36]'
{standard input}:118: Error: lo register required -- `ldr ip,[r8,#32]'
{standard input}:119: Error: lo register required -- `ldr pc,[ip,#40]'
```

Fathi Boudra
Linaro Toolchain ...
Michael Hope
Michael K. Edwards
Ramana Radhakrishnan
Rex Tsai
Yao Qi
Zhenqiang Chen

Related questions

Linaro GCC: Error: lo register required

Bug attachments

stubs.c (edit)
Add attachment

```
{standard input}:126: Error: lo register required -- `ldr ip,[r8,#32]' {standard input}:127: Error: lo register required -- `ldr pc,[ip,#44]' {standard input}:134: Error: lo register required -- `ldr ip,[r8,#32]' {standard input}:135: Error: lo register required -- `ldr pc,[ip,#48]' {standard input}:142: Error: lo register required -- `ldr ip,[r8,#32]' {standard input}:143: Error: lo register required -- `ldr pc,[ip,#52]' {standard input}:150: Error: lo register required -- `ldr ip,[r8,#32]' {standard input}:151: Error: lo register required -- `ldr pc,[ip,#56]' {standard input}:158: Error: lo register required -- `ldr ip,[r8,#32]' {standard input}:159: Error: lo register required -- `ldr pc,[ip,#60]' {standard input}:166: Error: lo register required -- `ldr pc,[ip,#60]' {standard input}:167: Error: lo register required -- `ldr pc,[ip,#64]'
```

Attached stubs.c

Add tags

```
Barry Song (21cnbao) wrote on 2011-03-16: #1
stubs.c (4.9 KiB, text/plain)
```

```
Ramana Radhakrishnan (ramana) wrote on 2011-03-16:

#2

Are you looking for Thumb1 or thumb2 ?

-march=armv6 -mthumb (or if compiler configured with --with-mode=thumb) =>
Thumb1 where such instructions are invalid .

If you are looking for Thumb2 onwards I think you ought to use -march=armv6t2 here.

Ramana
```

```
Barry Song (21cnbao) wrote on 2011-03-16: #3

Ramana,
```

Thanks! it works by both -march=armv5 and -march=armv6t2 .

i am using SoC with thumb1 support. after checking linaro uboot codes, i think i should change uboot compiling option to armv5 just like linaro-uboot, no matter armv6 and armv7, both use armv5 compiling opition to support more compiler.

Check:

vmuser@ubuntu:~/development/git/linaro/u-boot-linaro-stable\$ grep -r armv5 * arch/arm/cpu/arm926ejs/config.mk:PLATFORM_CPPFLAGS += -march=armv5te arch/arm/cpu/arm926ejs/davinci/config.mk:PLATFORM_CPPFLAGS += -march=armv5te arch/arm/cpu/armv7/config.mk:PLATFORM_CPPFLAGS += -march=armv5 arch/arm/cpu/armv7/s5pc1xx/cache.S: @ but we compile with armv5 arch/arm/cpu/armv7/s5pc1xx/cache.S: @ but we compile with armv5 arch/arm/cpu/armv7/omap-common/config.mk:PLATFORM CPPFLAGS += -march=armv5 arch/arm/cpu/armv7/omap3/cache.S: @ but we compile with armv5 arch/arm/cpu/arm1136/config.mk:PLATFORM_CPPFLAGS += -march=armv5 arch/arm/cpu/arm1176/config.mk:PLATFORM_CPPFLAGS += -march=armv5t arch/arm/cpu/arm1176/s3c64xx/config.mk:PLATFORM_CPPFLAGS += -march=armv5t arch/arm/cpu/pxa/config.mk:PLATFORM_CPPFLAGS += -march=armv5te -mtune=xscale arch/arm/cpu/ixp/config.mk:PLATFORM_CPPFLAGS += -mbig-endian -march=armv5te mtune=strongarm1100 doc/README.omap3:with -march=armv5 to allow more compilers to work. For U-Boot code this has doc/README.s5pc1xx:with -march=armv5 to allow more compilers to work. For U-Boot code this has lib/asm-offsets.s: .arch armv5 -barry

Barry Song (21cnbao) wrote on 2011-03-17:

#4

-march=armv6 -mthumb (or if compiler configured with --with-mode=thumb) => Thumb1 where such instructions are invalid .

so it is not a bug, but a right report.

Changed in gcc-linaro: status:New → Invalid

See full activity log

To post a comment you must log in.



© 2004-2012 Canonical Ltd. • Terms of use • Contact Launchpad Support • Blog • Careers • System status • r16378 (Get the code!)