for example

$ arm-linux-gnueabi-gcc -g -fverbose-asm -o test test.c (生成更易读的汇编码)

$ arm-linux-gnueabi-gcc **-v** -g -o test test.c

Using built-in specs.

COLLECT_GCC=arm-linux-gnueabi-gcc

COLLECT_LTO_WRAPPER=/usr/lib/gcc/arm-linux-gnueabi/4.6/lto-wrapper

Target: arm-linux-gnueabi

Configured with: ../src/configure -v --with-pkgversion='Ubuntu/Linaro 4.6.3-1ubuntu5' --with-bugurl=file:///usr/share/doc/gcc-4.6/README.Bugs --enable-languages=c,c++,fortran,objc,obj-c++ --prefix=/usr --program-suffix=-4.6 --enable-shared --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++/4.6.3 --libdir=/usr/lib --enable-nls --enable-clocale=gnu --enable-libstdcxx-debug --enable-libstdcxx-time=yes --enable-gnu-unique-object --enable-plugin --enable-objc-gc --enable-multilib --disable-sjlj-exceptions --with-arch=armv7-a --with-float=softfp --with-fpu=vfpv3-d16 --with-mode=thumb --disable-werror --enable-checking=release --build=x86_64-linux-gnu --host=x86_64-linux-gnu --target=arm-linux-gnueabi --program-prefix=arm-linux-gnueabi- --includedir=/usr/arm-linux-gnueabi/include --with-headers=/usr/arm-linux-gnueabi/include --with-libs=/usr/arm-linux-gnueabi/lib

Thread model: posix

gcc version 4.6.3 (Ubuntu/Linaro 4.6.3-1ubuntu5)

COLLECT_GCC_OPTIONS='-v' '-g' '-o' 'test' '-march=armv7-a' '-mfloat-abi=softfp' '-mfpu=vfpv3-d16' '-mthumb'

 /usr/lib/gcc/arm-linux-gnueabi/4.6/cc1 -quiet -v -imultilib . -imultiarch arm-linux-gnueabi test.c -quiet -dumpbase test.c -march=armv7-a -mfloat-abi=softfp -mfpu=vfpv3-d16 -mthumb -auxbase test -g -version -fstack-protector -o /tmp/ccXV7StS.s

GNU C (Ubuntu/Linaro 4.6.3-1ubuntu5) version 4.6.3 (arm-linux-gnueabi)

compiled by GNU C version 4.6.3, GMP version 5.0.2, MPFR version 3.1.0-p3, MPC version 0.9

GGC heuristics: --param ggc-min-expand=100 --param ggc-min-heapsize=131072

ignoring duplicate directory "/usr/lib/gcc/arm-linux-gnueabi/4.6/../../../../arm-linux-gnueabi/include"

ignoring nonexistent directory "/usr/include/arm-linux-gnueabi"

#include "..." search starts here:

#include <...> search starts here:

 /usr/lib/gcc/arm-linux-gnueabi/4.6/include

 /usr/lib/gcc/arm-linux-gnueabi/4.6/include-fixed

 /usr/arm-linux-gnueabi/include

 /usr/include

End of search list.

GNU C (Ubuntu/Linaro 4.6.3-1ubuntu5) version 4.6.3 (arm-linux-gnueabi)

compiled by GNU C version 4.6.3, GMP version 5.0.2, MPFR version 3.1.0-p3, MPC version 0.9

GGC heuristics: --param ggc-min-expand=100 --param ggc-min-heapsize=131072

Compiler executable checksum: c2a3eee802c1f4bc82a4d015bd8c8d6f

COLLECT_GCC_OPTIONS='-v' '-g' '-o' 'test' '-march=armv7-a' '-mfloat-abi=softfp' '-mfpu=vfpv3-d16' '-mthumb'

 /usr/lib/gcc/arm-linux-gnueabi/4.6/../../../../arm-linux-gnueabi/bin/as -march=armv7-a -mfloat-abi=softfp -mfpu=vfpv3-d16 -meabi=5 -o /tmp/cc8jCFOW.o /tmp/ccXV7StS.s

COMPILER_PATH=/usr/lib/gcc/arm-linux-gnueabi/4.6/:/usr/lib/gcc/arm-linux-gnueabi/4.6/:/usr/lib/gcc/arm-linux-gnueabi/:/usr/lib/gcc/arm-linux-gnueabi/4.6/:/usr/lib/gcc/arm-linux-gnueabi/:/usr/lib/gcc/arm-linux-gnueabi/4.6/../../../../arm-linux-gnueabi/bin/

LIBRARY_PATH=/usr/lib/gcc/arm-linux-gnueabi/4.6/:/usr/lib/gcc/arm-linux-gnueabi/4.6/../../../../arm-linux-gnueabi/lib/../lib/:/usr/lib/gcc/arm-linux-gnueabi/4.6/../../../../arm-linux-gnueabi/lib/

COLLECT_GCC_OPTIONS='-v' '-g' '-o' 'test' '-march=armv7-a' '-mfloat-abi=softfp' '-mfpu=vfpv3-d16' '-mthumb'

/usr/lib/gcc/arm-linux-gnueabi/4.6/collect2 --build-id --no-add-needed --as-needed --eh-frame-hdr -dynamic-linker /lib/ld-linux.so.3 -X --hash-style=gnu -m armelf_linux_eabi -z relro -o test /usr/lib/gcc/arm-linux-gnueabi/4.6/../../../../arm-linux-gnueabi/lib/../lib/crt1.o /usr/lib/gcc/arm-linux-gnueabi/4.6/../../../../arm-linux-gnueabi/lib/../lib/crti.o /usr/lib/gcc/arm-linux-gnueabi/4.6/crtbegin.o -L/usr/lib/gcc/arm-linux-gnueabi/4.6 -L/usr/lib/gcc/arm-linux-gnueabi/4.6/../../../../arm-linux-gnueabi/lib/../lib -L/usr/lib/gcc/arm-linux-gnueabi/4.6/../../../../arm-linux-gnueabi/lib -L/lib/arm-linux-gnueabi -L/usr/lib/arm-linux-gnueabi -L/usr/lib -L/lib /tmp/cc8jCFOW.o -lgcc --as-needed -lgcc_s --no-as-needed -lc -lgcc --as-needed -lgcc_s --no-as-needed /usr/lib/gcc/arm-linux-gnueabi/4.6/crtend.o /usr/lib/gcc/arm-linux-gnueabi/4.6/../../../../arm-linux-gnueabi/lib/../lib/crtn.o

编译该arm gcc使用如下参数

--build=x86_64-linux-gnu

--host=x86_64-linux-gnu

--target=arm-linux-gnueabi

include directory

/usr/lib/gcc/arm-linux-gnueabi/4.6/include

/usr/arm-linux-gnueabi/include

library directory

/usr/lib/gcc/arm-linux-gnueabi