`sysroot` 就是gcc认为的 `root` 。

gcc默认search include file, lib file都是基于sysroot基础上的。

在gcc本身的build时可以用 `--with-sysroot` 来指定

```
1.  walterzh@walterzh-Precision-T1650:~$ gcc -v
2.  Using built-in specs.
3.  COLLECT_GCC=gcc
4.  COLLECT_LTO_WRAPPER=/usr/lib/gcc/x86_64-linux-gnu/4.8/lto-wrapper
5.  Target: x86_64-linux-gnu
6.  Configured with: ../src/configure -v --with-pkgversion='Ubuntu 4.8.4-2ubuntu
    1~14.04.3' --with-bugurl=file:///usr/share/doc/gcc-4.8/README.Bugs --enable-
    languages=c,c++,java,go,d,fortran,objc,obj-c++ --prefix=/usr --program-suffi
    x=-4.8 --enable-shared --enable-linker-build-id --libexecdir=/usr/lib --with
    out-included-gettext --enable-threads=posix --with-gxx-include-dir=/usr/incl
    ude/c++/4.8 --libdir=/usr/lib --enable-nls --with-sysroot=/ --enable-clocale
    =gnu --enable-libstdcxx-debug --enable-libstdcxx-time=yes --enable-gnu-uniqu
    e-object --disable-libmudflap --enable-plugin --with-system-zlib --disable-b
    rowser-plugin --enable-java-awt=gtk --enable-gtk-cairo --with-java-home=/usr
    /lib/jvm/java-1.5.0-gcj-4.8-amd64/jre --enable-java-home --with-jvm-root-dir
    =/usr/lib/jvm/java-1.5.0-gcj-4.8-amd64 --with-jvm-jar-dir=/usr/lib/jvm-expor
    ts/java-1.5.0-gcj-4.8-amd64 --with-arch-directory=amd64 --with-ecj-jar=/usr/
    share/java/eclipse-ecj.jar --enable-objc-gc --enable-multiarch --disable-wer
    ror --with-arch-32=i686 --with-abi=m64 --with-multilib-list=m32,m64,mx32 --w
    ith-tune=generic --enable-checking=release --build=x86_64-linux-gnu --host=x
    86_64-linux-gnu --target=x86_64-linux-gnu
7.  Thread model: posix
8.  gcc version 4.8.4 (Ubuntu 4.8.4-2ubuntu1~14.04.3)
9.  walterzh@walterzh-Precision-T1650:~$
```

–with-sysroot=/

```
1.  walterzh@walterzh-Precision-T1650:~$ gcc -print-sysroot
2.  /
```

–sysroot option可以指定 `sysroot` ，一般cross-compile会用到