

Linux From Scratch - Version 12.1-systemd

Chapter 5. Compiling a Cross-Toolchain

5.3. GCC-13.2.0 - 1

GCC C C++ 가 GNU

- : 3.8 SBU
 - : 4.1 GB

5.3.1. Cross GCC



() 가).

gcc-13.2.0 tarball

```
tar -xf ./mpfr-4.2.1.tar.xz
mv -v mpfr-4.2.1 mpfr
tar -xf ./gmp-6.3.0.tar.xz
mv -v gmp-6.3.0 gmp
tar -xf ./mpc-1.3.1.tar.gz
mv -v mpc-1.3.1 mpc
```

x86 64 64 “lib”

```
case $(uname -m) in
  x86_64)
    sed -e '/m64=/s/lib64/lib/' \
          -i.orig gcc/config/i386/t-linux64
  ;;
esac
```

GCC

GCC

```
mkdir -v build
cd      build
```

GCC

```
./configure \
  --target=$LFS_TGT \
  --prefix=$LFS/tools \
  --with-glibc-version=2.39 \
  --with-sysroot=$LFS \
  --with-newlib \
  --without-headers \
  --enable-default-pie \
  --enable-default-ssp \
  --disable-nls \
  --disable-shared \
  --disable-multilib \
  --disable-threads \
  --disable-libatomic \
  --disable-libgomp \
  --disable-libquadmath \
  --disable-libssp \
  --disable-libvtv \
  --disable-libstdcxx \
  --enable-languages=c,c++
```

configure

- **-with-glibc-version=2.39**

Glibc

chroot

GCC 1

libc

libc

- **-with-newlib**

C

libc

libgcc

inhibit_libc

가

- **-without-headers**

GCC

가

GCC가

- **-enable-default-pie -enable-default-ssp**

GCC가

PIE SSP

(

8

).

가

가

- **-disable-shared**

GCC가

Glibc가

- **-disable-multilib**

x86_64 LFS

x86

- **-disable-threads, -disable-libatomic, -disable-libgomp, -disable-libquadmath, -disable-libssp, -disable-libvtv, -disable-libstdcxx**

threading, libatomic, libgomp, libquadmath, libssp, libvtv C++

libc

- **-enable-languages=c,c++**

C C++

가

GCC

make

make install

GCC

가

limits.h (\$LFS/usr/include/limits.h) 가
\$LFS/usr/include/limits.h 가

limits.h

GCC

Glibc

가

GCC



\$(), 가

, 가

\$()

cd ..

cat gcc/limitx.h gcc/glimits.h gcc/limity.h > \
`dirname \$(\$LFS_TGT-gcc -print-libgcc-file-name)`/include/limits.h

8.28.2. "GCC"

"

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