

Linux From Scratch - Version 12.1-systemd		
Chapter 5. Compiling a Cross-Toolchain		
	/	
Binutils-2.42 - 1	Linux-6.7.4 API Headers	

5.3. GCC-13.2.0 - 1

GCC C C++ 가 GNU .

- : 3.8 SBU
- : 4.1 GB

5.3.1. Cross GCC

GCC GMP, MPFR MPC 가 .
GCC GCC .
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 . GCC 1 libc
chroot libc
- **-with-newlib**
C libgcc inhibit_libc 가
libc
- **-without-headers**
GCC 가
GCC가
- **-enable-default-pie** **-enable-default-ssp**
GCC가 (8
PIE SSP).
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-libstdc++**

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

libc

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

C C++

가

GCC

```
make
```

```
make install
```

GCC

가

limits.h

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

GCC

\$LFS/usr/include/limits.h가

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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