

<b>Linux From Scratch - Version 12.1-systemd</b>	
<b>Chapter 5. Compiling a Cross-Toolchain</b>	
	/
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++
```

• **-with-glibc-version=2.39**

Glibc GCC 1 libc

• **-with-newlib**

C libgcc inhibit\_libc 가

• **-without-headers**

libc GCC GCC가 가

• **-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-libstdcxx**  
, 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  
가 GCC Glibc



\$() 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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