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|--|-------------------------|
| <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-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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