

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 2.39을 사용하며, GCC가 libglibc를 빌드할 때 pass1 GCC를 사용하도록 합니다.
- **-with-newlib**
C 라이브러리인 newlib를 사용하며, libgcc와 inhibit_libc가 필요합니다.
- **-without-headers**
GCC가 headers를 빌드하지 않도록 합니다.
- **-enable-default-pie -enable-default-ssp**
GCC가 PIE(Position Independent Executable)와 SSP(Stack Smashing Protection)를 기본적으로 활성화하도록 합니다.
- **-disable-shared**
GCC가 shared 라이브러리를 빌드하지 않도록 합니다.
- **-disable-multilib**
x86_64 LFS와 x86을 빌드하지 않습니다.
- **-disable-threads, -disable-libatomic, -disable-libgomp, -disable-libquadmath, -disable-libssp, -disable-libvtv, -disable-libstdcxx**
threads, libatomic, libgomp, libquadmath, libssp, libvtv, C++ 라이브러리를 빌드하지 않습니다.
- **-enable-languages=c,c++**
C와 C++ 언어를 빌드하도록 합니다.

GCC

make

```
make install
```

```

GCC      가      limits.h
limits.h  (      $LFS/usr/include/limits.h)가      limits.h
$LFS/usr/include/limits.h가      GCC
가      Glibc
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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