

Beyond Linux From Scratch 13.0

LLVM.ORG 21.1.8

```
mkdir blfs-llvm && cd blfs-llvm
CC=gcc CXX=g++ cmake
\
-DMAKE_INSTALL_PREFIX=/usr          -DCMAKE_SKIP_INSTALL_RPATH=ON
\
-DLLVM_ENABLE_FFI=ON                -DCMAKE_BUILD_TYPE=Release
\
-DLLVM_BUILD_LLVM_DYLIB=ON          -DLLVM_LINK_LLVM_DYLIB=ON
\
-DLLVM_ENABLE_RTTI=ON               -DLLVM_TARGETS_TO_BUILD="host"
\
-DLLVM_ENABLE_PROJECTS="clang;lld"  -DLLVM_CCACHE_BUILD=ON
\
-DLLVM_BINUTILS_INCDIR=/usr/include -DLLVM_INCLUDE_BENCHMARKS=OFF
\
-DCLANG_DEFAULT_PIE_ON_LINUX=ON     -
DCLANG_CONFIG_FILE_SYSTEM_DIR=/etc/clang \
-W no-dev -G Ninja ../llvm
```

clang, lld

```
cmake \
-DMAKE_C_COMPILER=clang              -DCMAKE_CXX_COMPILER=clang++
\
-DMAKE_LINKER_TYPE=LLD               -DCMAKE_INSTALL_PREFIX=/usr
\
-DLLVM_ENABLE_FFI=ON                 -DCMAKE_SKIP_INSTALL_RPATH=ON
\
-DCMAKE_BUILD_TYPE=Release           -DLLVM_BUILD_LLVM_DYLIB=ON
\
-DLLVM_LINK_LLVM_DYLIB=ON            -DMLIR_LINK_MLIR_DYLIB=ON
\
-DLLVM_ENABLE_RTTI=ON                -DLLVM_ENABLE_PROJECTS="all"
\
-DLLVM_BINUTILS_INCDIR=/usr/include  -DLLVM_INCLUDE_BENCHMARKS=OFF
\
-DCLANG_DEFAULT_PIE_ON_LINUX=ON     -
DCLANG_CONFIG_FILE_SYSTEM_DIR=/etc/clang \
-DLLVM_PARALLEL_{COMPILE,LINK,TABLEGEN}_JOBS=12
\
-DLIBCLC_TARGETS_TO_BUILD="clspv--;clspv64--;nvptx--;nvptx64--;nvptx--
nvidiacl;nvptx64--nvidiacl" \
-DLLVM_TARGETS_TO_BUILD="host;AMDGPU;BPF;NVPTX;SPIRV;WebAssembly;X86"
\
```

```
-DCMAKE_CCACHE_ENABLE=ON -Wno-dev -G Ninja  
\n../llvm
```

From:

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