

- `RelWithDebInfo`: Enable optimizations and generate debugging information. This is the default MySQL build type.
- `Release`: Enable optimizations but omit debugging information to reduce the build size. This build type was added in MySQL 8.0.13.
- `Debug`: Disable optimizations and generate debugging information. This build type is also used if the `WITH_DEBUG` option is enabled. That is, `-DWITH_DEBUG=1` has the same effect as `-DCMAKE_BUILD_TYPE=Debug`.
- `-DCPACK_MONOLITHIC_INSTALL=bool`

This option affects whether the `make package` operation produces multiple installation package files or a single file. If disabled, the operation produces multiple installation package files, which may be useful if you want to install only a subset of a full MySQL installation. If enabled, it produces a single file for installing everything.

- `-DFORCE_INSOURCE_BUILD=bool`

Defines whether to force an in-source build. Out-of-source builds are recommended, as they permit multiple builds from the same source, and cleanup can be performed quickly by removing the build directory. To force an in-source build, invoke `CMake` with `-DFORCE_INSOURCE_BUILD=ON`.

Installation Layout Options

The `CMAKE_INSTALL_PREFIX` option indicates the base installation directory. Other options with names of the form `INSTALL_XXX` that indicate component locations are interpreted relative to the prefix and their values are relative pathnames. Their values should not include the prefix.

- `-DCMAKE_INSTALL_PREFIX=dir_name`

The installation base directory.

This value can be set at server startup with the `--basedir` option.

- `-DINSTALL_BINDIR=dir_name`

Where to install user programs.

- `-DINSTALL_DOCDIR=dir_name`

Where to install documentation.

- `-DINSTALL_DOCREADMEDIR=dir_name`

Where to install `README` files.

- `-DINSTALL_INCLUDEDIR=dir_name`

Where to install header files.

- `-DINSTALL_INFODIR=dir_name`

Where to install Info files.

- `-DINSTALL_LAYOUT=name`

Select a predefined installation layout: