

## CGAL 5.0 installation instructions for Visual Studio 2019 (64-bit):

(assuming everything is installed in a folder C:\dev)

1. Download cmake (cmake-3.16.2-win64-x64.msi) from <https://cmake.org/download/> and install
2. Download and install (in c:\dev\boost\_1\_72\_0) boost\_1\_72\_0-msvc-XX.Y-64.exe from <https://sourceforge.net/projects/boost/files/boost-binaries/1.72.0/> (where XX.Y = 14.0 for VC 2015, XX.Y = 14.1 for 2017, XX.Y = 14.2 for VC 2019)
3. Set the following two environment variables  
BOOST\_LIBRARYDIR=C:\dev\boost\_1\_72\_0\lib64-msvc-XX.Y  
BOOST\_INCLUDEDIR=C:\dev\boost\_1\_72\_0  
and add (C:\dev\boost\_1\_72\_0\lib64-msvc-XX.Y) to the PATH environment variable.
4. Download and install (select 64-bit) CGAL-5.0-Setup.exe
5. Set the environment variable CGAL\_DIR=C:\dev\CGAL-5.0 and to the PATH environment variable the path C:\dev\CGAL-5.0\auxiliary\gmp\lib
6. Run the cmake-gui (in C:\dev\CMake\bin) and set  
source code location: C:/dev/CGAL-5.0 and build location: C:/dev/CGAL-5.0/build  
Press Configure and then press Generate to generate a VS solution CGAL.sln in C:\dev\CGAL-5.0\build.
7. Open and build CGAL.sln using VS (whenever building a project, choose x64).

## Environment Variables (Macros):

Define the following environment variables:

```
BOOST_INCLUDEDIR = C:\dev\boost_1_72_0
BOOST_LIBRARYDIR = C:\dev\boost_1_72_0\lib64-msvc-14.2
CGAL_DIR = C:\dev\CGAL-5.0
GMP_DIR = C:\dev\CGAL-5.0\auxiliary\gmp
Also add to the environment variable PATH the following directories:
C:\dev\boost_1_72_0\lib64-msvc-14.2
C:\dev\CGAL-5.0\auxiliary\gmp\lib
```

## Project Properties:

VC++ Directories->Include Directories:

```
$(BOOST_INCLUDEDIR);
$(CGAL_DIR)\include;
$(CGAL_DIR)\build\include;
$(GMP_DIR)\include;
```

Linker->General->Additional Library Directories:

```
$(BOOST_LIBRARYDIR);
$(CGAL_DIR)\build\lib;
```

Linker->Input->Additional Dependencies:

```
$(GMP_DIR)\lib\libgmp-10.lib;
$(GMP_DIR)\lib\libmpfr-4.lib;
```