

# Microsoft

The following Microsoft compilers are supported:

- [Microsoft Visual C++ 11.0](#)
- [Microsoft Visual C++ 11.0 \(x64\)](#)
- [Microsoft Visual C++ 12.0](#)
- [Microsoft Visual C++ 12.0 \(x64\)](#)
- [Microsoft Visual C++ 14.0](#)
- [Microsoft Visual C++ 14.0 \(x64\)](#)
- [Microsoft Visual C++ 14.1](#)
- [Microsoft Visual C++ 14.1 \(x64\)](#)
- [Microsoft Visual C++ 14.2](#)
- [Microsoft Visual C++ 14.2 \(x64\)](#)
- [Deprecated Compilers](#)
  - [Microsoft Visual C++ 9.0](#)
  - [Microsoft Visual C++ 9.0 \(x64\)](#)
  - [Microsoft Visual C++ 10.0](#)
  - [Microsoft Visual C++ 10.0 \(x64\)](#)

## Microsoft Visual C++ 11.0

- Compiler acronym: vc\_11\_0
- Host OS: Windows
- Supported practices: Full support
- Support level: [Extended](#)
- Compiler version (cl): C/C++ Optimizing Compiler Version 17.00.x
- Linker version (link): Incremental Linker Version 11.00.x
- IDE: Visual Studio 2012

## Microsoft Visual C++ 11.0 (x64)

- Compiler acronym: vc\_11\_0-64
- Host OS: Windows
- Supported practices: Full support
- Support level: [Extended](#)
- Compiler version (cl): C/C++ Optimizing Compiler Version 17.00.x
- Linker version (link): Incremental Linker Version 11.00.x
- IDE: Visual Studio 2012

## Microsoft Visual C++ 12.0

- Compiler acronym: vc\_12\_0
- Host OS: Windows
- Supported practices: Full support
- Support level: [Extended](#)
- Compiler version (cl): C/C++ Optimizing Compiler Version 18.00.x
- Linker version (link): Incremental Linker Version 12.00.x
- IDE: Visual Studio 2013

## Microsoft Visual C++ 12.0 (x64)

- Compiler acronym: vc\_12\_0-64
- Host OS: Windows
- Supported practices: Full support
- Support level: [Extended](#)
- Compiler version (cl): C/C++ Optimizing Compiler Version 18.00.x
- Linker version (link): Incremental Linker Version 12.00.x
- IDE: Visual Studio 2013

## Microsoft Visual C++ 14.0

- Compiler acronym: vc\_14\_0
- Host OS: Windows
- Supported practices: Full support
- Support level: [Extended](#)
- Compiler version (cl): C/C++ Optimizing Compiler Version 19.00.x

- Linker version (link): Incremental Linker Version 14.00.x
- IDE: Visual Studio 2015

## Microsoft Visual C++ 14.0 (x64)

- Compiler acronym: vc\_14\_0-64
- Host OS: Windows
- Supported practices: Full support
- Support level: [Extended](#)
- Compiler version (cl): C/C++ Optimizing Compiler Version 19.00.x
- Linker version (link): Incremental Linker Version 14.00.x
- IDE: Visual Studio 2015

## Microsoft Visual C++ 14.1

- Compiler acronym: vc\_14\_1
- Host OS: Windows
- Supported practices: Full support
- Support level: [Extended](#)
- Compiler version (cl): C/C++ Optimizing Compiler Version 19.10.x-19.16.x
- Linker version (link): Incremental Linker Version 14.10.x-14.16.x
- IDE: Visual Studio 2017

## Microsoft Visual C++ 14.1 (x64)

- Compiler acronym: vc\_14\_1-64
- Host OS: Windows
- Supported practices: Full support
- Support level: [Extended](#)
- Compiler version (cl): C/C++ Optimizing Compiler Version 19.10.x-19.16.x
- Linker version (link): Incremental Linker Version 14.10.x-14.16.x
- IDE: Visual Studio 2017

## Microsoft Visual C++ 14.2

- Compiler acronym: vc\_14\_2
- Host OS: Windows
- Supported practices: Full support
- Support level: [Extended](#)
- Compiler version (cl): C/C++ Optimizing Compiler Version 19.20.x-19.23.x
- Linker version (link): Incremental Linker Version 14.20.x-14.23.x
- IDE: Visual Studio 2019

### Additional Information

- The `/std:c++latest` option and some C++20 features are not supported.

## Microsoft Visual C++ 14.2 (x64)

- Compiler acronym: vc\_14\_2-64
- Host OS: Windows
- Supported practices: Full support
- Support level: [Extended](#)
- Compiler version (cl): C/C++ Optimizing Compiler Version 19.20.x-19.23.x
- Linker version (link): Incremental Linker Version 14.20.x-14.23.x
- IDE: Visual Studio 2019

### Additional Information

- The `/std:c++latest` option and some C++20 features are not supported.

## Deprecated Compilers

The following compiler configurations are now deprecated:

## Microsoft Visual C++ 9.0

- Compiler acronym: vc\_9\_0
- Host OS: Windows
- Supported practices: Full support
- Support level: [Extended](#)
- Compiler version (cl): C/C++ Optimizing Compiler Version 15.00.x
- Linker version (link): Incremental linker Version 9.00.x
- IDE: Visual Studio 2008

## Microsoft Visual C++ 9.0 (x64)

- Compiler acronym: vc\_9\_0-64
- Host OS: Windows
- Supported practices: Full support
- Support level: [Extended](#)
- Compiler version (cl): C/C++ Optimizing Compiler Version 15.00.x
- Linker version (link): Incremental linker Version 9.00.x
- IDE: Visual Studio 2008

## Microsoft Visual C++ 10.0

- Compiler acronym: vc\_10\_0
- Host OS: Windows
- Supported practices: Full support
- Support level: [Extended](#)
- Compiler version (cl): C/C++ Optimizing Compiler Version 16.00.x
- Linker version (link): Incremental linker Version 10.00.x
- IDE: Visual Studio 2010

## Microsoft Visual C++ 10.0 (x64)

- Compiler acronym: vc\_10\_0-64
- Host OS: Windows
- Supported practices: Full support
- Support level: [Extended](#)
- Compiler version (cl): C/C++ Optimizing Compiler Version 16.00.x
- Linker version (link): Incremental linker Version 10.00.x
- IDE: Visual Studio 2010

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## About Support Levels

- **Extended:** Support has been validated with extended testing and is approved for use in safety-critical software development.
- **Standard:** Support has been validated with standard testing and is approved for use in non-safety critical software development.