

# Microsoft

The following Microsoft compilers are supported:

- 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
- 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)

## Controlling the preprocessor for Microsoft Visual C/C++ compilers

By default, C++test uses an internal preprocessor for Microsoft Visual C/C++ compilers. If you prefer to use the original compiler executable as the preprocessor, set the `edgTk.useEdgPreprocessor` `false` advanced option as described in [Advanced Instrumentation Configuration Options](#).

## 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

## 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-19.12.x
- Linker version (link): Incremental Linker Version 14.10.x-14.12.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-19.12.x
  - Linker version (link): Incremental Linker Version 14.10.x-14.12.x
  - IDE: Visual Studio 2017
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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.