

Supported and Compatible Compilers – Release 2025b

A number of MathWorks products or product features require that you have a third-party compiler installed on your system. The tables below outline the compilers that are supported by various MathWorks products. These compilers are provided by a number of vendors and are available under a variety of commercial, academic, or open source terms; visit the providers' websites for further information.

Please see [Polyspace documentation](#) for the list of compilers that Polyspace supports in the current release. See [Supported Interfaces to Other Languages](#) for information about using MATLAB with other programming languages.

Windows

MinGW is a supported C/C++ compiler which is available free of charge. [Download MinGW now.](#)

Note:

- Intel oneAPI 2022 support will be discontinued with R2025b.

MATLAB Product Family – Release 2025b

Compiler	MATLAB	MATLAB Coder	GPU Coder	SimBiology	Fixed-Point Designer	HDL Coder	HDL Verifier	Audio Toolbox	ROS Toolbox
	For MEX-file compilation, loadlibrary, C++ interface, and external usage of MATLAB Engine and MAT-file APIs	For all features	For all features	For accelerated computation	For accelerated computation	For accelerated testbench simulation	For DPI and TLM component generation	For validating and generating audio plugins	For custom messages and code generation
MinGW 8.1 C/C++ (Distributor: mingw-w64) Available at no charge. Download from MATLAB Central.	✓	✓ ₁		✓	✓	✓	✓		
MinGW 8.1 Fortran (Distributor: mingw-w64) Available at no charge. Download from MATLAB Central.	✓								
MinGW 6.3 C/C++ (Distributor: mingw-w64) Available at no charge. Additional download and setup required. Setup instructions on MATLAB Answers.	✓	✓ ₁		✓	✓	✓	✓		
Microsoft Visual C++ 2022 ²	✓	✓ ₁	✓ ₈	✓	✓	✓		✓	✓
Microsoft Visual C++ 2019 ^{2,3}	✓	✓	✓ ₈	✓	✓	✓	✓	✓	✓
Microsoft Visual C++ 2017 ^{2,3}	✓	✓	✓ ₈	✓	✓	✓	✓	✓	✓
Intel oneAPI 2024 for C/C++ ⁴	✓								
Intel oneAPI 2023 for C/C++ ⁴	✓								
Intel oneAPI 2022 for C/C++ ⁴	✓								
Intel oneAPI 2024 for Fortran ⁴	✓								
Intel oneAPI 2023 for Fortran ⁴	✓								

Simulink Product Family – Release 2025b

Compiler	Simulink	Simulink	Stateflow	Simulink Compiler	Simulink Coder	Embedded Coder	SerDes Toolbox
	For S-Function compilation	For Model Referencing, Accelerator mode, Rapid Accelerator mode, and MATLAB Function blocks	For all features	For all features	For all features	When targeting the host OS	For IBIS-AMI model generation
MinGW 8.1 C/C++ (Distributor: mingw-w64) Download from MATLAB Central. <i>Available at no charge</i>	✓	✓	✓	✓	✓ ¹	✓	✓
MinGW 8.1 Fortran (Distributor: mingw-w64) <i>Available at no charge.</i> Download from MATLAB Central.	✓ ⁵						
MinGW 6.3 C/C++ (Distributor: mingw-w64) <i>Available at no charge. Additional download and setup required. Setup instructions on MATLAB Answers.</i>	✓	✓	✓	✓	✓ ¹	✓	✓
Microsoft Visual C++ 2022 ²	✓	✓	✓	✓	✓	✓	✓
Microsoft Visual C++ 2019 ^{2,3}	✓	✓	✓	✓	✓	✓	✓
Microsoft Visual C++ 2017 ^{2,3}	✓	✓	✓	✓	✓	✓	✓
Intel oneAPI 2024 for C/C++ ⁴	✓ ⁵						
Intel oneAPI 2023 for C/C++ ⁴	✓ ⁵	✓ ⁵		✓ ⁵	✓ ⁵	✓ ⁵	
Intel oneAPI 2022 for C/C++ ⁴	✓ ⁵	✓ ⁵		✓ ⁵	✓ ⁵	✓ ⁵	
Intel oneAPI 2024 for Fortran ⁴	✓ ⁵						
Intel oneAPI 2023 for Fortran ⁴	✓ ⁵						

Polyspace Product Family – Release 2025b

Compiler	Polyspace Test
	For all features
MinGW 8.1 C/C++ (Distributor: mingw-w64) Download from MATLAB Central. <i>Available at no charge.</i>	✓ ¹
MinGW 6.3 C/C++ (Distributor: mingw-w64) <i>Available at no charge. Additional download and setup required. Setup instructions on MATLAB Answers.</i>	✓ ¹
Microsoft Visual C++ 2022 ²	✓
Microsoft Visual C++ 2019 ^{2,3}	✓
Microsoft Visual C++ 2017 ^{2,3}	✓

MATLAB Compiler – Release 2025b

Compiler	MATLAB Compiler	MATLAB Compiler SDK			
	Excel add-in for desktop	C/C++	COM	.NET	Excel add-in for MPS
MinGW 8.1 C/C++ (Distributor: mingw-w64) Download from MATLAB Central. <i>Available at no charge</i>	✓ ⁷	✓	✓ ⁷		
MinGW 6.3 C/C++ (Distributor: mingw-w64) <i>Available at no charge. Additional download and setup required. Setup instructions on MATLAB Answers.</i>	✓ ⁷	✓	✓ ⁷		
Microsoft Visual C++ 2022 ²	✓	✓	✓	✓	
Microsoft Visual C++ 2019 ^{2,3}	✓	✓	✓	✓	
Microsoft Visual C++ 2017 ^{2,3}	✓	✓	✓	✓	
.NET Framework 4.6.2 or higher				✓	✓
.NET 6.0 or higher				✓	

Notes for the Windows Platform

1. MinGW does not support Code Profiling with C++ MEX target.
2. Microsoft Visual C++ is included with Visual Studio Build Tools, Community, Professional, and Enterprise. The Visual Studio installers group functionality into workloads; the “Desktop development with C++” workload is required for MEX and associated functionality.
3. See [Visual Studio Older Downloads](#) to download Visual Studio 2017 and 2019.
4. Intel compilers require that Microsoft Visual Studio also be installed on your system. The Intel compiler version must be equal to or newer than the Microsoft Visual Studio version.
5. Fortran compilers are supported with Simulink only for creating Simulink S-Functions using the MATLAB MEX command. The S-Functions can be used with normal and accelerated simulations.
6. MATLAB Function Blocks are not supported with Intel oneAPI.
7. Microsoft Windows SDK 10 is required to use MinGW with this product. [See Answer 355476](#) for more details.
8. GPU Coder supports specific versions of Microsoft Visual Studio. See the [GPU Coder documentation](#) page for more details.

Mac OS

MATLAB Product Family – Release 2025b

Compiler	Apple silicon	Intel	MATLAB	MATLAB Compiler SDK	MATLAB Coder	SimBiology	Fixed-Point Designer	Audio Toolbox	ROS Toolbox
			For MEX-file compilation, loadlibrary, and external usage of MATLAB Engine and MAT-file APIs	C/C++	For all features	For accelerated computation	For accelerated computation	For validating and generating audio plugins	For custom messages and code generation
Xcode 26	✓	✓	✓	✓	✓	✓	✓	✓	✓
Xcode 16	✓	✓	✓	✓	✓	✓	✓	✓	✓
NAG Fortran Compiler	✓		✓						
Intel oneAPI 2023 for Fortran		✓	✓						

Simulink Product Family – Release 2025b

Compiler	Apple silicon	Intel	Simulink	Simulink	Stateflow	Simulink Coder	Embedded Coder
			For S-Function compilation	For model referencing, Accelerator mode, Rapid Accelerator mode, and MATLAB Function blocks	For all features	For all features	When targeting the host OS
Xcode 26	✓	✓	✓	✓	✓	✓	✓
Xcode 16	✓	✓	✓	✓	✓	✓	✓
NAG Fortran Compiler ¹	✓		✓				
Intel oneAPI 2023 for Fortran ¹		✓	✓				

Polyspace Product Family – Release 2025b

Compiler	Apple silicon	Intel	Polyspace Test
			For all features
Xcode 26		✓	✓
Xcode 16		✓	✓

MATLAB Compiler – Release 2025b

Compiler	Apple silicon	Intel	MATLAB Compiler SDK
			C/C++
Xcode 26	✓	✓	✓
Xcode 16	✓	✓	✓

To determine the version of Xcode installed, start Xcode and then select Xcode->About Xcode.

Notes for the Mac Platform

- Fortran compilers are supported with Simulink only for creating Simulink S-functions using the MATLAB MEX command. The S-functions can be used with normal and accelerated simulations.

Linux (64-bit)

MATLAB Product Family – Release 2025b

Compiler	MATLAB	MATLAB Compiler SDK	MATLAB Coder	GPU Coder	SimBiology	Fixed-Point Designer	HDL Coder	HDL Verifier	ROS Toolbox
	For MEX-file compilation, loadlibrary , and external usage of MATLAB Engine and MAT-file APIs	C/C++	For all features	For all features	For accelerated computation	For accelerated computation	For accelerated testbench simulation	For DPI and TLM component generation	For custom messages and code generation
GCC C/C++ 13.x	✓	✓	✓	✓	✓	✓	✓	✓	✓
GCC C/C++ 12.x	✓	✓	✓	✓	✓	✓	✓	✓	✓
GCC C/C++ 11.x	✓	✓	✓	✓	✓	✓	✓	✓	✓
GCC C/C++ 10.x	✓	✓	✓	✓	✓	✓	✓	✓	✓
GCC C/C++ 9.x	✓	✓	✓	✓	✓	✓	✓	✓	✓
GCC C/C++ 8.x	✓	✓	✓	✓	✓	✓	✓	✓	✓
GNU gfortran 10.x	✓								

Simulink Product Family – Release 2025b

Compiler	Simulink	Simulink	Stateflow	Simulink Coder	Embedded Coder	SerDes Toolbox
	For S-Function compilation	For model referencing, Accelerator mode, Rapid Accelerator mode, and MATLAB Function blocks	For all features	For all features	When targeting the host OS	For IBIS-AMI model generation
GCC C/C++ 13.x	✓	✓	✓	✓	✓	✓
GCC C/C++ 12.x	✓	✓	✓	✓	✓	✓
GCC C/C++ 11.x	✓	✓	✓	✓	✓	✓
GCC C/C++ 10.x	✓	✓	✓	✓	✓	✓
GCC C/C++ 9.x	✓	✓	✓	✓	✓	✓
GCC C/C++ 8.x	✓	✓	✓	✓	✓	✓
GNU gfortran 10.x	✓ ₁					

Polyspace Product Family – Release 2025b

Compiler	Polyspace Test
	For all features
GCC C/C++ 13.x	✓
GCC C/C++ 12.x	✓
GCC C/C++ 11.x	✓
GCC C/C++ 10.x	✓
GCC C/C++ 9.x	✓
GCC C/C++ 8.x	✓

MATLAB Compiler – Release 2025b

Compiler	MATLAB Compiler SDK
	C/C++
GCC C/C++ 13.x	✓
GCC C/C++ 12.x	✓
GCC C/C++ 11.x	✓
GCC C/C++ 10.x	✓
GCC C/C++ 9.x	✓
GCC C/C++ 8.x	✓

To determine the version of your compiler, see [Answer 99897](#).

Notes for the Linux Platform

1. Fortran compilers are supported with Simulink only for creating Simulink S-functions using the MATLAB MEX command. The S-functions can be used with normal and accelerated simulations.