

Release Notes: LLVM FOR RENESAS RISC-V 17.0.2.202403

26th of March, 2024

CyberThor Studios Ltd. is releasing the LLVM for Renesas RISC-V 17.0.2.202403, a cross compiler tool for Renesas RISC-V micro-controllers.

SALIENT FEATURES

The LLVM for Renesas RISC-V 17.0.2.202403 toolchain is based on:

- ❖ LLVM 17.0.2 [released]
- ❖ Compiler-rt 16.0.6 [released]
- ❖ Libcxx 16.0.6 [released]
- ❖ Libcxx-abi 16.0.6 [released]
- ❖ Newlib 4.3.0 [released]

The latest patches are applied to the LLVM sources.



ABOUT LLVM FOR RENESAS RISC-V 17.0.2.202403

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|----------------------|---------------------------------------|
| Release Version: | LLVM for Renesas RISC-V 17.0.2.202403 |
| Release Date: | 26th of March, 2024 |
| Platforms Supported: | Windows 7 or later |
| Language: | C, C++ |
| Targets: | Renesas RISC-V MCU |
| Object File Format: | ELF |



CHANGES IN LLVM FOR RENESAS RISC-V 17.0.2.202403

This is the initial release of the LLVM for Renesas RISC-V toolchain for the Windows operating system. Future releases will add support for additional platforms, implement optimizations and address possible bugs.

Usage details can be found at:

<https://llvm.org/docs/RISCVUsage.html>

Notes:

The LLVM for Renesas RISC-V toolchain on the Windows platform requires the presence of the x86 Microsoft Visual C++ Redistributable package for Visual Studio 2015-2022.

This can be downloaded and installed from the official site:

https://aka.ms/vs/17/release/vc_redist.x86.exe

This installer does not provide an option to integrate the LLVM RISC-V toolchain with e2 studio, as the e2 studio IDE will automatically detect the LLVM RISC-V toolchain installation on start-up for integration. Alternatively, you may use the 'Toolchain Management' feature in e2 studio to achieve this.

For details on e2 studio please visit the following link below:

<https://www.renesas.com/eu/en/software-tool/e-studio>



KNOWN ISSUES IN LLVM FOR RENESAS RISC-V 17.0.2.202403

The following is a list of known issues for the tools we include for the LLVM for Renesas RISC-V 17.0.2.202403 toolchain:

1. Other issues, non-specific to LLVM for Renesas RISC-V

For better understanding regarding the status of the toolchain please visit <https://github.com/llvm/llvm-project/issues> .



FREE SUPPORT FOR LLVM FOR RENESAS RISC-V 17.0.2.202403

For free technical support, please register at
<https://llvm-gcc-renesas.com>

For your feedback and suggestions, please visit
<https://llvm-gcc-renesas.com/help/contact-us/>

