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Embedded Target for Infineon C166® Microcontrollers Version 1.0 Release Notes

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Introduction to the Embedded Target for Infineon C166® Microcontrollers

Note The Embedded Target for Infineon C166® Microcontrollers (Version 1.0) will be released in Web-downloadable form for Release 13+. Version 1.0 is the first release of this product.

The Embedded Target for Infineon C166® Microcontrollers is an add-on product for use with the Real-Time Workshop Embedded Coder. It provides a set of tools for developing embedded applications for the C166® family of processors. This includes derivatives such as Infineon C167 and ST Microelectronics ST10 (www.us.st.com).

Used in conjunction with Simulink, Stateflow, and the Real-Time Workshop Embedded Coder, the Embedded Target for Infineon C166® Microcontrollers lets you

- Design and model your system and algorithms.
- Compile, download, run and debug generated code on the target hardware, seamlessly integrating with the Tasking compiler toolchain for the Infineon C166® microcontroller.
- Use rapid prototyping techniques to evaluate performance and validate results obtained from generated code running on the target hardware.
- Deploy production code on the target hardware.

Feature Summary

- Automatic generation of 'main' program including single or multitasking scheduler
- Automated build procedure including starting debugger or download utility
- Support for integer, floating-point or fixed-point code
- Driver blocks for serial transmit and receive
- Examples to show you how to integrate your own driver code
- Fully integrated with Tasking toolchain

- **Enhanced HTML report generation provides analysis of RAM/ROM usage; this is in addition to the standard HTML report generation that shows optimization settings and hyperlinks to generated code files**

Known Software and Documentation Problems

This section describes known software and documentation problems in Version 1.0.

- Version 1.0 of Embedded Target for Infineon C166® Microcontrollers is incompatible with version 1.0.1 of Embedded Target for Motorola® MPC555. However, it will be compatible with version 1.1 of Embedded Target for Motorola® MPC555 when this is released. If it is required to use both Embedded Target for Infineon C166® Microcontrollers Version 1.0 and Embedded Target for Motorola® MPC555 Version 1.0.1 on the same machine, we recommend you maintain separate installations of MATLAB.
- If you set a `Timer_interrupt_level` value of zero, or 10 through 15, the build process will fail. The default of 7 and values 1 through 9 function correctly. This setting is contained within the **C166 System Configuration Parameters** of the **C166 Resource Configuration** block. All settings for `Timer_interrupt_level_groups` (0-3) function correctly.