

Release Notes Appendix for Windriver compiler

Release Notes

Product name: Refer to Package* release notes

Release number: 2.0.0

Type of release: Refer to Package* release notes

Release method: via Release Area

AUTOSAR specification: Refer to Package* release notes

Compiler support: Windriver 5.9.7.0+Patch 17054

Processor platform: Refer to Package* release notes

Date: 2021-04-09

Previous release number: Refer to Package* release notes

About this document

Scope and purpose

This document, provides information of compiler and compiler options intended to use for 2.0.0 delivery.

*Note: *Here Package refers to BASIC/CD/COM-E/ DEMO package.*



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Tool information

1 Tool information

Table 1 Tool information

Tool description	Version details	
Compiler	Version: 5.9.7.0+Patch 17054	Build number: DIAB_5_9_7_0-FCS_20190730_094505

1.1 Compiler options

Table 2 WindRiver Diab compiler options used

Options	Description
Compiler options	-tTC162PMF:simple -O3 -Xsection-split=1 -Xsmall-data=0 -Xkeep-assembly-file=2 -Xsmall-const=0 -Xdialect-c99 -ei5388,2273,5387,1824
Assembler options	-tTC162PMF:simple -O3 -Xsection-split=1 -Xsmall-data=0 -Xkeep-assembly-file=2 -Xsmall-const=0 -Xdialect-c99 -ei5388,2273,5387,1824
Linker options	-tTC162PMF:simple -m6 -Xremove-unused-sections

Note: Compiler options which influence code generation and are not listed, should be left to the default compiler settings. All the above-listed compiler options are mandatory.

Attention: *If the compiler options are changed by the user, and if the generated binary output is different than the one generated by the usage of the mandatory compiler options, the functionality and reliability of the drivers cannot be ensured.*

2 Known issues

This chapter describes the prescribed workarounds for all the open issues identified.

Table 3 Known issues

Module	Issue number	Description
Generic	0000053912-4921	Description: Windriver Compiler erratas TCDIAB-14623 analysis Impact: Issue not seen/reproduced during internal testing of MCAL with the published compiler options. Customer shall analyse the impact of compiler errata TCDIAB-14623 for their application with MCAL. Workaround: None.
	0000053912-11970	Description: Windriver Compiler erratas TCDIAB-14967 analysis Impact: Issue not seen/reproduced during internal testing of MCAL with the published compiler options. Customer shall analyse the impact of compiler errata TCDIAB-14967 for their application with MCAL. Workaround: None.

Known issues**Table 3** **Known issues (continued)**

Module	Issue number	Description
	0000053912-15839	<p>Description: Windriver Compiler errata TCDIAB-13360 and TCDIAB-13304 impact analysis</p> <p>Impact:</p> <p>1) TCDIAB-13304 : Optimization of stack not proper. No functional impact.</p> <p>2) TCDIAB-13360 : MCAL uses "volatile const" qualifiers with pointers to access registers. Compiler vendor confirms this issue does not apply to pointers.</p> <p>No impact seen to MCAL and issues not seen/reproduced during internal testing of MCAL with the published compiler options. Customer shall analyze the impact of compiler errata for their application with MCAL.</p> <p>Workaround: No impact seen in MCAL. Refer workarounds in compiler errata if customer application is affected.</p>

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