

# Release Notes Appendix for Tasking compiler

## Release Notes

Product name: Refer to Package\* release notes

Release number: 2.25.0

Type of release: Refer to Package\* release notes

Release method: via Release Area

AUTOSAR specification: Refer to Package\* release notes

Compiler support: Tasking 6.3r1p5

Processor platform: Refer to Package\* release notes

Date: 2023-07-26

Previous release number: Refer to Package\* release notes

## About this document

### Scope and purpose

This document, provides information of compiler version and compiler options intended to use for 2.25.0 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	<b>Version:</b> 6.3r1p5	<b>Build number:</b> Build 21092262

## 1.1 Compiler options

**Table 2** TASKING compiler options used

Options	Description
Compiler options	--core=tc1.6.2 --iso=99 -O2 --eabi=BCFHNSW -AGKpvX --tradeoff=2 --fp-model=1 --switch=auto --integer-enumeration --default-near-size=0 --global-type-checking
Assembler options	--core=tc1.6.2 --list-format=1 --optimize=gs
Linker options	-OcLtXY --core=mpe:vtc --global-type-checking

**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

All compiler defects published by the compiler vendor are analyzed and checked for applicability to MCAL product. Only those compiler defects which are applicable and which are not addressed, are mentioned here.

**Table 3** Known issues

Module	Issue number	Description
Generic	0000053912-18822	<p>Description: Compiler errata TCVX-44907 analysis.</p> <p>Impact: Compiler errata issue not seen/reproduced during internal testing of MCAL with the published compiler options. Customer shall analyze the impact of compiler errata TCVX-44907 for their application with MCAL.</p> <p>Workaround: No impact seen in MCAL. Refer workarounds in compiler errata if customer application is affected.</p>

(table continues...)

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

Module	Issue number	Description
	0000053912-19263	<p>Description: Compiler errata TCVX-44047 and TCVX-44962 analysis.</p> <p>Impact: Compiler errata issue not seen/reproduced during internal testing/analysis of MCAL with the published compiler options. Customer shall analyze the impact of compiler errata TCVX-44047 and TCVX-44962 for their application with MCAL.</p> <p>Workaround: No impact seen in MCAL. Refer workarounds in compiler errata if customer application is affected.</p>
	0000053912-17779	<p>Description: Compiler errata TCVX-44645 analysis.</p> <p>Impact: Issue not seen/reproduced during internal testing of MCAL with the published compiler options. Customer shall analyze the impact of compiler errata TCVX-44645 for their application with MCAL. Customer can also monitor for any bus errors, as the usage of the double word instructions for the access over FPI would result in an bus errors.</p> <p>Workaround: None.</p>
	0000053912-18192	<p>Description: Tasking compiler errata TCVX-44325</p> <p>Impact: Due to enable the code compaction optimization (reverse in-lining) there is possibility to trigger a run-time stack pointer alignment error.</p> <p>Workaround: Do not disable the Interrupt Stack in hardware.</p>
	0000053912-18358	<p>Description: Compiler errata TCVX-44677, TCVX-44684, TCVX-44737,TCVX-44751, TCVX-44792, TCVX-44808,TCVX-44872,TCVX-44903 analysis.</p> <p>Impact: Issue not seen/reproduced during internal testing of MCAL with the published compiler options. Customer shall analyze the impact of compiler erratas TCVX-44677, TCVX-44684, TCVX-44737, TCVX-44751, TCVX-44792, TCVX-44808,TCVX-44872,TCVX-44903 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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