Release Notes Appendix for Greenhills 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: Greenhills v2018.1.5 Release R9.15.1
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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1 Tool information

Table 1 Tool information

Tool description	Version details	
Compiler	**Version:** v2018.1.5-P05	**Release number:** R9.15.1

1.1 Compiler options

Table 2 Greenhills compiler options used

Options	Description
Compiler options	`-gnu99 -g -cpu=tc1v162 --xref=full -tricore_ppccompat_abi -sda=none -roxda -minlib -Ogeneral -Onoprintfuncs -Onounroll -Onotailrecursion -Onoexplodejumps --unsigned_chars -ffunctions -fsingle -no_fused_madd -Oinline_constant_math -no_float_associativity -fno_NaN_cmp_unordered -no_precise_signed_zero -half_precision_type --no_commons --no_vla --gnu_asm -dual_debug --no_short_enum --diag_error 39,549,940,1056,1780,1999 --diag_warning 193,1705,1706,1709,1710,1718,1729,1735,1777,1826,1835,2017 -srec -lnk=-no_append -nostartfiles -map -Mn -Mx -nostdlib`
Assembler options	`-gnu99 -g -cpu=tc1v162 --xref=full -tricore_ppccompat_abi -sda=none -roxda -minlib -Ogeneral -Onoprintfuncs -Onounroll -Onotailrecursion -Onoexplodejumps --unsigned_chars -ffunctions -fsingle -no_fused_madd -Oinline_constant_math -no_float_associativity -fno_NaN_cmp_unordered -no_precise_signed_zero -half_precision_type --no_commons --no_vla --gnu_asm -dual_debug --no_short_enum --diag_error 39,549,940,1056,1780,1999 --diag_warning 193,1705,1706,1709,1710,1718,1729,1735,1777,1826,1835,2017 -srec -lnk=-no_append -nostartfiles -map -Mn -Mx -nostdlib`
Linker options	`-gnu99 -g -cpu=tc1v162 --xref=full -tricore_ppccompat_abi -sda=none -roxda -minlib -Ogeneral -Onoprintfuncs -Onounroll -Onotailrecursion -Onoexplodejumps --unsigned_chars -ffunctions -fsingle -no_fused_madd -Oinline_constant_math -no_float_associativity -fno_NaN_cmp_unordered -no_precise_signed_zero -half_precision_type --no_commons --no_vla --gnu_asm -dual_debug --no_short_enum --diag_error 39,549,940,1056,1780,1999 --diag_warning 193,1705,1706,1709,1710,1718,1729,1735,1777,1826,1835,2017 -srec -lnk=-no_append -nostartfiles -map -Mn -Mx -nostdlib -delete`

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.

Known issues

Table 3 Known issues

Module	Issue number	Description
Generic	0000053912-5846	Description: GHS Compiler erratas TOOLSCL-1022,TOOLSCL-1049 and TOOLSCL-1055 analysis. Impact: Compiler errata 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. Workaround: No impact seen in MCAL. Refer workarounds in compiler errata if customer application is affected.
	0000053912-8422	Description: GHS Compiler erratas TOOLSCL-1122 and TOOLSCL-1146 analysis. Impact: Compiler errata 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. Workaround: No impact seen in MCAL. Refer workarounds in compiler errata if customer application is affected.
	0000053912-6878	Description: GHS Compiler erratas TOOLSCL-1086 and TOOLSCL-1087 analysis. Impact: Compiler errata 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. Workaround: No impact seen in MCAL. Refer workarounds in compiler errata if customer application is affected.

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