

[Notes]

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Rev.1.00

RX Smart Configurator for Azure RTOS on e² studio 2021-04

Apr. 16, 2021

Outline

When using RX Smart Configurator for Azure RTOS on e² studio 2021-04, note the following points.

1. Code size of new RX Azure RTOS project
2. NetX Duo Addons version 6.1.3 with CCRX compiler

Table 1 Applicable quick reference table of the problem

No	e2 studio 2021-04 with CC-RX	e2 studio 2021-04 with GCC RX
1	X	X
2	X	OK

X: This mark describes to correspond issue

1. Code size of new RX Azure RTOS project

1.1 Applicable Products

e² studio 2021-04

1.2 Applicable Devices

RX65N Group

1.3 Details

When creating a new RX Azure RTOS project and adding Azure RTOS components (for e.g. FileX, NetX Duo), all source codes (for e.g. FileX, NetX Duo) including the unused functions will be included and built into the binary file by default. This may cause the binary file size to increase significantly.

1.4 Workaround

To remove the unused functions from binary file, please apply the following tool settings.

For GCC RX compiler,

- 1) Select [Linker] > [Miscellaneous]
- 2) Select "Enable garbage collection of unused input section(-gc-sections)"

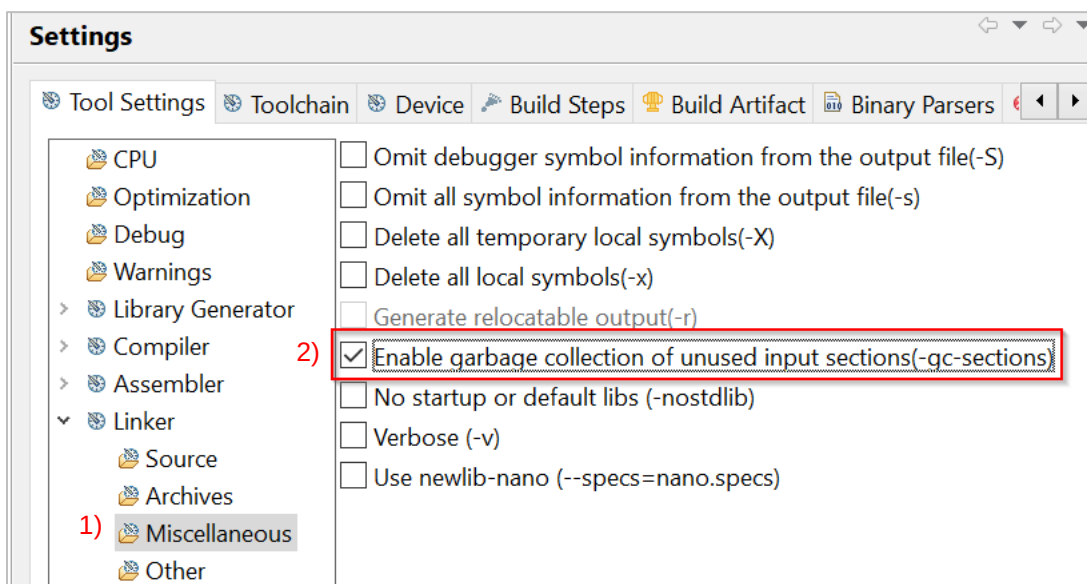


Figure 1 Linker setting for GCC RX

For CCRX compiler,

- 1) Select [Compiler] > [Optimization]
- 2) Select “Outputs additional information for inter-module optimization (-goptimize)”

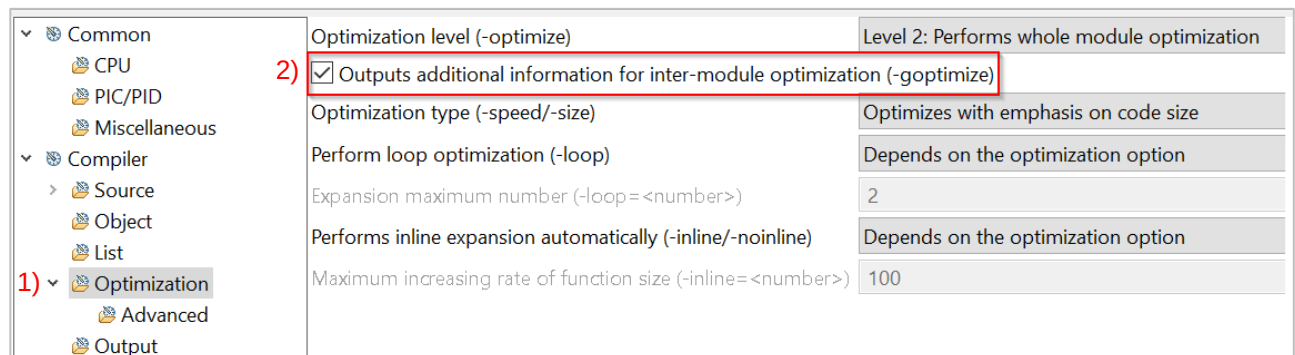


Figure 2 Compiler setting for CCRX

- 3) Select [Linker] > [Optimization]
- 4) Select “Custom” for “Optimization type (-nooptimize/-optimize)”
- 5) Select “Deletes variables/functions that are not referenced (-optimize=symbol_delete)”

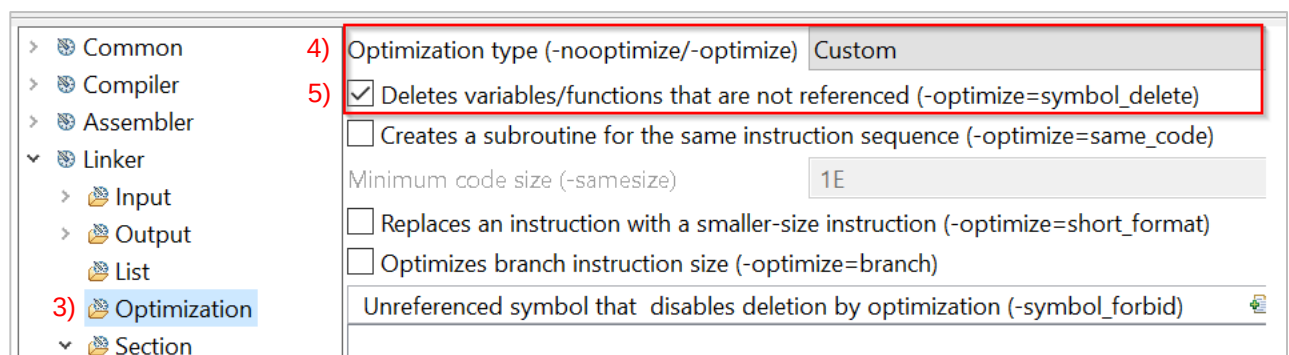


Figure 3 Linker setting for CCRX

1.5 Schedule for Fixing the Problem

This problem will be fixed in a later version.

2. NetX Duo Addons version 6.1.3 with CCRX compiler

2.1 Applicable Products

e² studio 2021-04

2.2 Applicable Devices

RX65N Group

2.3 Details

When creating a new RX Azure RTOS project with CC-RX compiler and adding NetX Duo Addons component version 6.1.3, build errors occur when building the project.

*Note) This issue does not happen when using GCC RX compiler.

2.4 Workaround

Please do not use new project creation feature on e² studio if you want to use NetX Duo Addons in your project.

Please use NetX Duo Addons version inside the sample project from GitHub and use import feature of e² studio to import this project.

- Go to <https://github.com/azure-rtos/samples>
- Download "Azure_RTOS_6.1_Renesas_RX65N_RSK_2MB_e2studio_ccrx_Sample_2021_01_08.zip"
- Import sample projects into your workspace using import feature of e² studio and modify the sample project

2.5 Schedule for Fixing the Problem

This problem will be fixed in a later version of NetX Duo Addons.

Revision History

Rev.	Date	Description	
		Page	Summary
1.00	Apr.16.21	-	First edition issued

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