RX development environment migration guide

Migration From RX Family and Other Family to RX Family

(IDE ed.)

(High-performance Embedded Workshop to CS+)

November 30, 2016
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Preface

- This document describes the porting a project from High-performance Embedded Workshop (hereinafter HEW) IDE to CS+ IDE for an RX family compiler (hereinafter CC-RX).

- The applicable versions of CS+ / HEW / CC-RX are as follows.
  - CS+ for CC V4.01.00
  - HEW V.4.09.01.007
  - CC-RX V2.05.00
Agenda

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Utilizing Existing Projects

Workspaces* created by the HEW can be loaded for use in the CS+ environment.

Opened in the CS+ environment taking over the following settings:
- Files
- Project configuration
- Build options (only from HEW for RX)

* Workspaces for RX created by HEW v.4.07 or later

Migration from HEW to CS+ is supported.
Differences from HEW when Creating a Project(1/8)

- The setup wizard for creating a project is different.

A project can be created only with basic settings.
Differences from HEW when Creating a Project (2/8)

- Settings made in the process of creating a project in the HEW can be made in the window shown below after a project has been created.

Make settings in the [Common Options] page of CC-RX (build tool) properties after a project has been created.
Differences from HEW when Creating a Project (3/8)

- Settings made in the process of creating a project in the HEW can be made in the window shown below after a project has been created.

Make settings in the [Common Options] page of CC-RX (build tool) properties after a project has been created.
Differences from HEW when Creating a Project (4/8)

- Settings made in the process of creating a project in the HEW can be made in the window shown below after a project has been created.

In the HEW, the set value is applied to the generated startup code.

Setting can be updated by changing the value.
Differences from HEW when Creating a Project (5/8)

- Settings made in the process of creating a project in the HEW can be made in the window shown below after a project has been created.

Make settings in the [Library Generate Options] page of CC-RX (build tool) properties after a project has been created.
Differences from HEW when Creating a Project (6/8)

- Settings made in the process of creating a project in the HEW can be made in the window shown below after a project has been created.

Described on the next page
Differences from HEW when Creating a Project (7/8)

- RX's stack areas are automatically allocated according to the description in the `stacksct.h` file and the stack section layout set on the [Link Options] page of CC-RX (build tool) properties.

```c
#include <stacksct.h>
#pragma stacksize su=0x100
#pragma stacksize si=0x300
```

Stack sizes written in the `stacksct.h` file

```
MVTC     #00000508,USP
MVTC     #00000808,ISP
```

Automatically generated by executing build

Generates a code in which the address figured out from "addresses at which SU and SI sections are allocated" + "sizes specified in the stacksct.h file" is specified as the initial value of the stack pointer.
Differences from HEW when Creating a Project(8/8)

- Settings made in the process of creating a project in the HEW can be made in the window shown below after a project has been created.

In the CS+ environment, created projects can be easily connected to the debugger environment.
Migration to CS+ for RX from HEW for Non-RX

CS+ supports device conversion.

HEW project for Non-RX

CS+ project for RX