[Notes]

e² studio Smart Configurator Plug-in,

R20TS0696ES0100 Rev.1.00 May. 16, 2021

Smart Configurator for RX

Outline

When using the products in the title, note the following points.

1. When using PORT component and configuring PORTC multiplexed pins as input

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- 1.1 Applicable Products
 - > e² studio 6.2 (Smart Configurator Plug-in V1.2.0) or later
 - Smart Configurator for RX V1.2.0 or later

1.2 Applicable Devices

 RX family: RX130 (80/64/48 pins) and RX230/1 (64/48 pins) Group

1.3 Details

When using PORT component and configuring PORTC multiplexed pins as input, the generated code for PDR register is wrong, its bit 0 should be set to value 0 instead of value 1.

The affected pins are as below:

PC0 and PC1 on RX130 (80/64 pins), RX230/1 (64 pins) which are multiplexed with PB6 and PB7
PC0, PC1, PC2 and PC3 on RX130 (48 pins) and RX230/1 (48 pins) which are multiplexed with PB0, PB1, PB3 and PB5

1.4 Condition

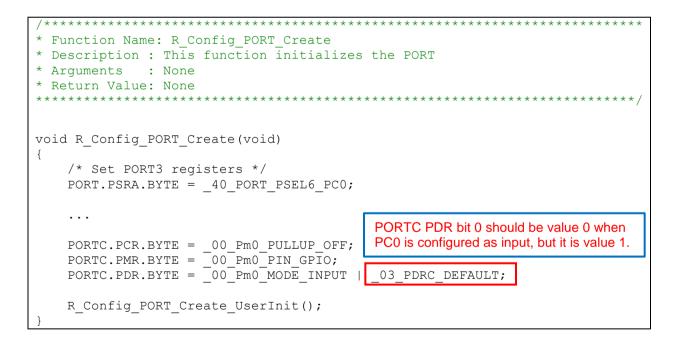
Below are the steps to reproduce the issue:

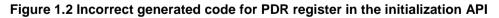
- (1) Creating Smart configurator project on the affected device mentioned above
- (2) Add PORT component from the software component page
- (3) Enable PORTC and configure the pins mentioned above as input (see Figure 1.1)
- (4) Click "Generate Code" and check PDR register generated code in the initialization API (see Figure 1.2)

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Software component c	🔋 Generate Code	👜 Generate Report				
Components 🖓 🕒 🕀 🖶 🖛	Configure		^			
10 To	Port selection PORTC					
✓ Startup	Apply to all					
 ✓ E Generic [•] r_bsp ✓ E Drivers [•] E I/O Ports [•] Config_PORT 	Unused GPIO In Out Pull-up CMOS out	put ~	Output 1			
	PC0 O Unused GPIO In O Out Pull-up CMOS out	put 🗸	Output 1			
Conng_ronn	DC1					
	PC1 ● Unused GPIO ○ In ○ Out □ Pull-up CMOS out	put 🗸	Output 1			
	PC2 ● Unused GPIO ○ In ○ Out □ Pull-up CMOS out	put 🗸	Output 1			
~	<pre>PC3 </pre>		> ×			
Overview Board Clocks System Components Pins Interrupts						

Figure 1.1 Configure PC0 as input for PORT component (RX130 64 pin)





1.5 Workaround

Manually update corresponding bit value from 1 to 0 for this PDR register generated code, e.g. for the PC0, macro name should be updated from "_03_PDRC_DEFAULT" to "_02_PDRC_DEFAULT" and its value should also be updated from "0x03U" to "0x02U" in the "r_cg_port.h" generated file.

1.6 Schedule for Fixing the Problem

This problem will be fixed in the following versions. (Scheduled to be released in July 2021)

- e² studio 2021-07
- Smart Configurator for RX V2.10.0

Revision History

		Description	
Rev.	Date	Page	Summary
1.00	May.16.20	-	First edition issued

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