

Note on Using Peripheral Driver Generator

When using Peripheral Driver Generator, take note of the following problem:

- With using Clock frequency accuracy measurement circuit (CAC) in MCUs of RX210 group
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1. Product and Versions Concerned

Peripheral Driver Generator V.2.03 through V.2.05

2. Description

In the user program, if you make calls to the following functions, which are generated by the product concerned, incorrect writes are made at address 0 in the on-chip RAM.

- R_PG_CAC_GetStatusFlags
- R_PG_CAC_GetCounterBufferRegister

These functions are generated when you set up on the setup window of Clock frequency accuracy measurement circuit (CAC) for MCUs of the RX210 group.

3. Examples

(1) In R_PG_CAC_GetStatusFlags

```
-----  
// Including "R_PG_<Project file name>.h"  
// Example: When project file name is "default"  
#include "R_PG_default.h"  
  
bool g_err;  
bool g_end;  
bool g_ov;  
  
void function(void)  
{  
    R_PG_CAC_GetStatusFlags(&g_err, &g_end, &g_ov);  
}
```

(2) In R_PG_CAC_GetCounterBufferRegister

```
-----  
// Including "R_PG_<Project file name>.h"  
// Example: When project file name is "default"  
#include "R_PG_default.h"  
  
uint16_t cacntbr_val;  
  
void function(void)  
{  
    R_PG_CAC_GetCounterBufferRegister(&cacntbr_val);  
}  
-----
```

4. Workarounds

(1) In R_PG_CAC_GetStatusFlags

Do not use this function, but read out the CAC Status register to obtain the value of its Status flag.

Example:

```
-----  
// Including "R_PG_<Project file name>.h"  
// Example: When project file name is "default"  
#include "R_PG_default.h"
```

```
// Including I/O Register Definition file  
#include "iodefine_RPDL.h"
```

```
bool g_err;  
bool g_end;  
bool g_ov;
```

```
void function(void)  
{  
    g_err = CAC.CASTR.BIT.FERRF;  
    g_end = CAC.CASTR.BIT.MENDF;  
    g_ov = CAC.CASTR.BIT.OVFF;  
}  
-----
```

(2) In R_PG_CAC_GetCounterBufferRegister

Do not use this function, but read out the CAC Counter Buffer register to obtain the value of this register.

Example:

```
-----  
// Including "R_PG_<Project file name>.h"  
// Example: When project file name is "default"  
#include "R_PG_default.h"  
  
// Including I/O Register Definition file  
#include "iodefine_RPDL.h"
```

```
uint16_t cacntbr_val;
```

```
void function(void)  
{  
    cacntbr_val = CAC.CACNTBR;  
}
```

5. Schedule of Fixing Problem

We plan to fix this problem in Peripheral Driver Generator V.2.06.

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