RENESAS Tool News

Peripheral Driver Generator Revised to V.2.02

We have revised Peripheral Driver Generator from V.2.01 to V.2.02. This utility program aids you to create on-chip peripheral I/O drivers.
For an overview of Peripheral Driver Generator, see:
  http://www.renesas.com/pdg
The above URL is one of our global sites.

1. Description of Revision

1.1 Supported MCUs Increased

The revised product supports the RX62T group of MCUs. The following peripheral I/O modules of these MCUs are supported:

- Voltage detection circuit (LVD)
- Clock generator circuit
- Low power consumption
- Interrupt control unit (ICU) and exception handlers
- Buses
- Data transfer controller (DTC)
- I/O ports
- Multi-function timer pulse unit 3 (MTU3)
- Port output enable 3 (POE3)
- General PWM timer (GPT)
- Compare match timer (CMT)
- Watchdog timer (WDT)
- Independent watchdog timer (IWDT)
- Serial communication interface (SCIb)
- CRC calculator (CRC)
- I2C bus interface (RIIC)
- Serial peripheral interface (RSPI)
- LIN module (LIN)
- 12-bit A/D converter (S12ADA)
- 10-bit A/D converter (ADA)

NOTE: The little-endian system only supported.

1.2 Known Problem Fixed

The problem with capturing values of the timer general registers (TGRs)
in the multifunction timer pulse unit 2 (MTU2) has been resolved.
For details see RENESAS TOOL NEWS Document No. 110416/tn1 at:
   http://tool-support.renesas.com/eng/toolnews/110416/tn1.htm

2. Notes

When peripheral I/O drivers created by any of Peripheral Driver
Generator V.2.00 through V.2.02 are built by using the C/C++ compiler
package for the RX family of MCUs V.1.01 Release 00, take note of
the following problems:
(1) Because a function name in the startup program generated by
    High-performance Embedded Workshop is different from one used
    in the vector table generated by Peripheral Driver Generator,
    link errors arise.
    To avoid this problem, replace "PowerON_Reset" with
    "PowerON_Reset_PC" three times in the resetprg.c file included
    in the startup program.

    Note that if startup programs generated by using the C/C++
    compiler package for the RX family V.1.00 Release 02 or earlier
    are used in the compiler package V.1.01 Release 00, this problem
    does not arise.

(2) Because the parameter type of intrinsic function set_fintv has been
    changed from unsigned long to void *, a warning may be issued during
    a build within a file generated by Peripheral Driver Generator.
    However, ignore this warning if issued.

3. Host System Requirements

Computer: IBM PC/AT or compatible
OS: Windows(R) XP, Windows Vista(R), or Windows(R) 7

4. How to Update Your Product

Online update is available free of charge. Update yours in either of
the following ways:
(1) Use AutoUpdate Utility. This service will be available on and

after June 13.
(2) Download the installer of the revised product from:
   http://www.renesas.com/pdg_download
Then execute it. The installer will be published on the Web
site on June 6.
The above URL is one of our global sites.