We have revised the C/C++ compiler package for the RX family of MCUs from V.1.01 Release 00 to V.1.02 Release 00.

1. Descriptions of Revision

1.1 Compiler

The following functions have been introduced:
(1) Supporting MISRA-C:2004 rule checks
   Option -misra2004 can be used. By using this option, checks based on
   MISRA-C:2004 rules are made during compilation.
   Example of entering an option: -misra2004=all

   NOTICE:
   Several MISRA-C:2004 rules are not supported. For the supported
   rule numbers, see the section of the misra2004 option in the
   supplement to the product manual.

(2) Supporting the generation of code that does not use division instructions
   Option -nouse_div_inst is selectable. By using this option,
   the code that does not use division instructions (DIV, DIVU,
   and FDIV) can be generated.

1.2 Problems Fixed

(1) The following problems that were reported in RENESAS TOOL NEWS
    Document No. 111016/tn2 have been fixed:
    1. With performing bitwise OR operation (|) of -1 or bitwise AND (&)
       operation of 0 with a function call or a volatile-qualified
       variable (RXC#016)
    2. With executing a loop containing a conditional operator or an if
       statement with a loop counter (RXC#017)
3. With updating the value of the variable referenced in a loop containing a conditional operator or an if statement by using any statement except an assignment one (RXC#018)

4. With referencing a structure containing arrays as members by using a pointer to the structure (RXC#019)

5. With referencing an array element of type char twice or more times in a function (RXC#020)

For details of these, see the Web page at:
   http://tool-support.renesas.com/eng/toolnews/111016/tn2.htm
This Web page will be opened on November 7, 2011.

(2) The problem where the C4098 or C4099 internal error arises has been fixed.

(3) The following problem that was reported in RENESAS TOOL NEWS Document No. 110916/tn4 has been fixed:
   - With using the -cpu=stride option during linking (LNK-0010)
For details of this, see the Web page at:
   http://tool-support.renesas.com/eng/toolnews/110916/tn4.htm

2. Updating Your Product and Ordering Revised One

2.1 Updating
Online update is available free of charge. To update yours, do either of the following:
(1) Use AutoUpdate Utility.
(2) Download the update program of the product at:
   http://www.renesas.com/rx_c_download
Then execute it.
The above URL is one of our global sites.

2.2 Ordering
When you place an order for the product, supply the following items of information to your local Renesas Technology marketing office or distributor:
   Product type: C/C++ compiler package for RX family
   Host OS: Windows(R) 7, Windows Vista(R) or Windows(R) XP
   NOTICE: The 64-bit editions of Windows Vista(R) and Windows(R) XP are excluded.

For the price of the product, contact the above sales office or distributor.
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