RENESAS Tool News

The C/C++ Compiler Package for the M32R MCU Family Revised to V.5.01 Release 01

We have revised the C/C++ compiler package for the M32R MCU family (M3T-CC32R) from V.5.01 Release 00 to V.5.01 Release 01.

1. Descriptions of Revision

1.1 Three Options Introduced for the MISRA C Rule Checker, SQMlint

The following three options have been introduced, which are selectable when the compiler package is used in combination with the MISRA C rule checker, SQMlint:

- -ignore_files_misra
- -check_language_extension
- -check_no_prototype_extension

For details of these options, see "M32R Family C/C++ compiler package (CC32R) V.5.01 Release 01 Release Notes" on the Web page at:
http://documentation.renesas.com/eng/products/tool/rej10j1987_cc32r_n.pdf
This page will be available on and after May 8, 2009.
And for the other options, see the latest version of the users manual of SQMlint on the Web page at:
http://documentation.renesas.com/eng/products/tool/rej10j1314_sqmlnt_u.pdf

1.2 Running on Windows Vista(R)

For details, please refer to the "M32R Family C/C++ compiler package (CC32R) V.5.01 Release 01 Release Notes" above.
Note, however, that the product does not run on the 64-bit version of Windows Vista(R).

1.3 Problems Fixed

The following eight problems have been fixed:

(1) With calculating the stack usage of run-time operation routines
    of type float
    For details see RENESAS TOOL NEWS Document No. 081016/tn7,
    published on October 16, 2008, at:
      http://tool-support.renesas.com/eng/toolnews/081016/tn7.htm

(2) With performing float-type multiplication and subtraction
    For details see RENESAS TOOL NEWS Document No. 081016/tn6,
    published on October 16, 2008, at:
      http://tool-support.renesas.com/eng/toolnews/081016/tn6.htm

(3) With using a function-like macro that takes the same function-like
    macro as an argument
    For details see RENESAS TOOL NEWS Document No. 080901/tn3,
    published on September 1, 2008, at:
      http://tool-support.renesas.com/eng/toolnews/080901/tn3.htm

(4) With making a function-like macro statement that extends over more
    than one line and uses comments beginning with // or enclosed with
    /* and */
    For details see RENESAS TOOL NEWS Document No. 080701/tn1,
    published on July 1, 2008, at:
      http://tool-support.renesas.com/eng/toolnews/080701/tn1.htm

(5) With using ten thousand or more initializing expressions
    For details see RENESAS TOOL NEWS Document No. 070801/tn1,
    published on August 1, 2007, at:
      http://tool-support.renesas.com/eng/toolnews/070801/tn1.htm

(6) That a Windows error arises while the preprocessing executable
    cpre.exe is handling the source program in compilation

(7) That incorrect debug information may be generated when the
    source program containing inline functions is compiled
    If this problem arises under the condition that the -CS option
    is selected, the C source merge processor cmerge.exe outputs
    incorrect lines to the ASM source file or dispatches the following
    error message:
      cmerge: error: cannot read line. (..¥inc¥file.h:123 line)
    That is, cmerge.exe cannot read the source line containing
    incorrect debug information generated by the compiler.

(8) That cmerge.exe dispatches an error if a function containing a declaration of

#include is compiled.

2. How to Update Your Product and Purchase the Revised One

2.1 Updating

Online update is available free of charge. Update yours in either of the following ways:

(1) Use AutoUpdate Utility. This service is available on and after May 12.

(2) Download the update program of the product from:

   http://www.renesas.com/cc32r_download

   Then execute it. This site will be opened from May 8 on.

2.2 First Ordering

When you place an order for the product, supply the following items of information to your local Renesas Technology sales office or distributor:

Product Type:	C/C++ compiler package for the M32R family R0C32100CLW05R
Version No.:	V.5.01
Release No.:	Release 01
Host OS:	Windows Vista(R), Windows XP or Windows 2000

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