RENESAS Tool News

Release of the AP4 Coding Assistance Tool for RZ

We will release the AP4 Coding Assistance Tool for the RZ Family V1.00.00.

For details of this product, see the following page:
https://www.renesas.com/applilet

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1. Overview
   The AP4 coding assistance tool for RZ is a stand-alone tool for assisting
   in generating code.
   Specifically, the tool allows you to generate control programs (device
   driver programs) for the peripheral modules of RZ family products
   through easy-to-follow GUI operations. This tool generates main functions
   and API functions. Various programs can be created by simply combining
   those functions.

   AP4 can generate files of C-language source code which is tailored to a
   compiler. Either of the following can be selected for AP4 for the RZ
   family.
    - IAR Embedded Workbench from IAR Systems
    - GNUARM-NONE-EABI GNU tool from KPIT Technologies Ltd.
   For details of the compilers, refer to 2.3, Supported Compilers.

   AP4 generates files of C-language source code and IAR Project Connection
   Files (.ipcf) if you select the IAR Embedded Workbench.
   This will allow you to add the files generated by AP4 to projects
   automatically by using the project connection facility of the IAR
   Embedded Workbench integrated development environment.

2. Features
2.1 Supported Products
   RZ family: RZ/T1 group

2.2 Supported Peripheral Modules
  - System
     Clock generation circuit, DMA controller, and others
  - Timers
     Multi-function timer pulse unit, compare-match timer,
     16-bit timer pulse unit, programmable pulse generator, and others
  - Communications
     Serial Communications Interface with embedded FIFO
     I2C bus interface, SPI multi I/O bus controller, and others
  - Interrupts
     Interrupt controller
  - A/D
     12-bit A/D convertor
  - Others
     CRC calculation circuit, error control module, and others

  For details of the products, see their user's manuals at the links on
  the web page below.
  https://www.renesas.com/search/keyword-
  search.html#genre=document&q=R20UT3292

2.3 Supported Compiler
  - Compiler bundled with the IAR Embedded Workbench integrated
    development environment from IAR Systems

     Please direct any enquiries regarding the IAR Embedded Workbench to
     IAR Systems.
       IAR Systems Web Site:
        http://www.iar.com/

  - GNUARM-NONE-EABI GNU tool from KPIT Technologies Ltd.

     Technical inquiries on the GNU tool can be registered at the below
     site.
       KPIT GNU Tools & Support Web site:
        http://www.kpitgnutools.com/

3. Operating Environment
  Host computer: IBM PC/AT compatible
  Host OS: Windows 8.1, Windows 8, Windows 7, or Windows Vista
  Other required components of the software environment
   - Microsoft .NET Framework 4 and language packs
   - Microsoft Visual C++ 2010 SP1 runtime library

4. Obtaining the Product

   The product can be downloaded from our site free of charge at the
   following URL. This page will be published on April 6.
   https://www.renesas.com/applilet_download
   Software name: AP4 V1.00 for RZ

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