RENESAS Tool News

FFT Library for the RL78 Family V.1.00 Release 00 Published

We have published the FFT library for the RL78 Family V.1.00 Release 00. We supply the product free of charge.
For an overview of the FFT library, visit our Web site at:
https://www.renesas.com/mw/fftlib
The above URL is one of our global sites.

1. Outline

This software library is used for FFT (Fast Fourier Transform) spectrum analysis on the RL78 family of MCUs (see NOTE). Because the product is assembler-tuned for Renesas MCUs, it can perform the analysis more efficiently than ordinary FFT libraries.

For example, when applied to FFT spectrum analysis of voice data, the product can give you the figure of amplitude (sound level) of each frequency that is a constituent of the voice. In this way, the product is fitted to develop spectrum analyzers of voice, noise, and others.

NOTE: FFT (Fast Fourier Transform) is an algorithm for performing discrete Fourier transform with high speed.

2. Supported MCUs

The MCUs of the RL78 family

3. Obtaining the Product

To obtain the product, follow these steps:
(1) Go to the following Web page:
https://www.renesas.com/products/software-tools/software-os-middleware-driver/dsp-numerical-software/fft-library.html#sampleCodes

You see the list of titles of Application Notes and Sample Code.
(2) In the list, search for the following application note:
"RL78 Family FFT Library M3S-FFT-LIB: Introduction Guide"

(3) Click the hyperlink in the Project Files column to the right of the above title.

(4) Read through AGREEMENT that appears; then click Agree.

(5) From the Download page, download the product.

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