Standard Libraries Included in RX Family C/C++ Compiler Package V.1.00 Release 01

This compiler package includes four library files (*.lib) for the RX600. You can use any of the library files if they correspond to the options that you wish to specify. Using these files shortens the time required for building.

1. Library Files

Table 1 shows the standard library files and compiler options.

Note:

The compiler options you specify should be the same as the microcontroller options defined for each of the library files listed in table 1. Otherwise these library files are not usable, so specify your compiler options in the library generator to generate your own library file.

Library File	Purposes	Optimize *2 Options	Microcontroller Options *1 *2		
			-endian	-cpu -rtti -exception -noexception	Others *3
rx600lq.lib	For the RX600 Optimization type: Speed Little endian	-speed -goptimize	-endian=little	-cpu=rx600 -rtti=on -exception	-round=nearest -denormalize=off -dbl_size=4 -unsigned_char -unsigned_bitfield -bit_order=right -unpack -fint_register=0 -branch=24
rx600ls.lib	For the RX600 Optimization type: Size Little endian	-size -goptimize			
rx600bq.lib	For the RX600 Optimization type: Speed Big endian	-speed -goptimize	-endian=big		
rx600bs.lib	For the RX600 Optimization type: Size Big endian	-size -goptimize			

Table 1 Library Files

*Notes:

*1 For details on microcontroller options, refer to section 2.5, Microcontroller Options, in the user's manual for the compiler.

*2: For confirming the option selections from the High-performance Embedded Workshop's build settings, please see the "Dialog Menu" columns of the "Table 2.7 Optimize Options" and "Table 2.9 Microcontroller Options" in the User's manual.

*3: These option selections are same from the each default of them.

2. Using the Library Files

The library files included in the compiler package must be linked in either of the ways given in sections 2.2 and 2.3.

2.1 Location of the Library Files

When the High-performance Embedded Workshop has been installed in C:\Program Files\Renesas\Hew, the library files are stored in the following location:

```
C:\Program Files\Renesas\Hew\Tools\Renesas\RX\1_0_1\lib
```

("1_0_1" indicates the version and revision number of the compiler package.)

2.2 Selecting a Library File through the High-performance Embedded Workshop

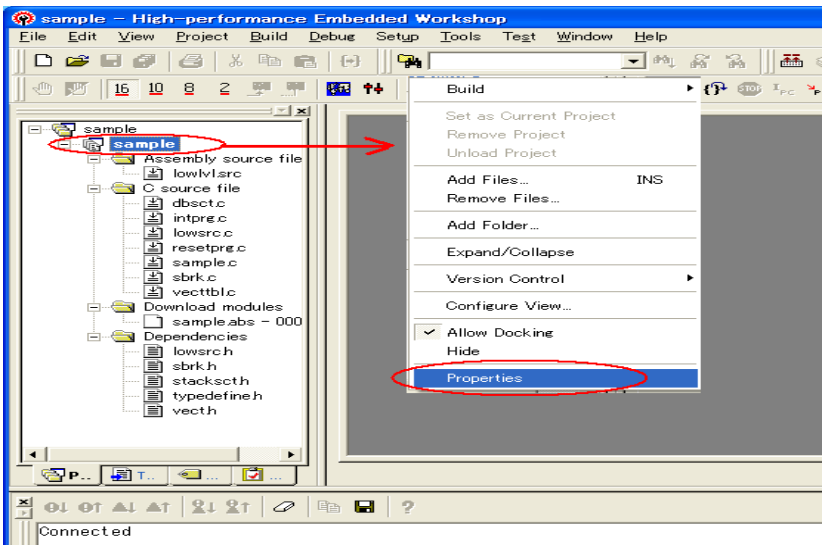
Follow the procedure below to select a library file for the project you are using.

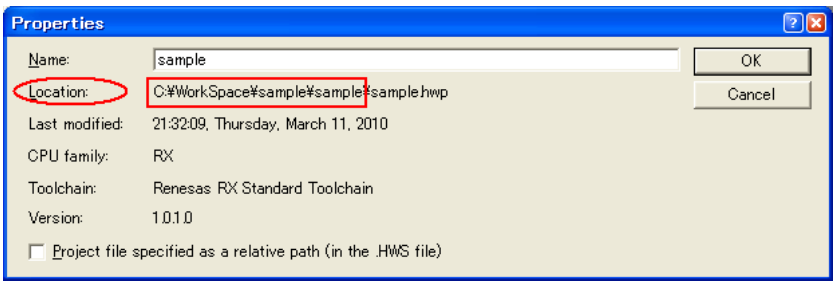
(1) Open the project.

(2) Please confirm the project setting, and select one of libraries on the Table 1 above.

(3) Check the location of the project directory.

Select a project in the [Workspace] window and right-click on it. Then select [Properties] from the popup menu and check the path displayed on the right to [Location].





The directory containing a file with extension .hwp is the project directory.

(4) Copy the library file you selected of (2), from the location given in section 2.1 to the project

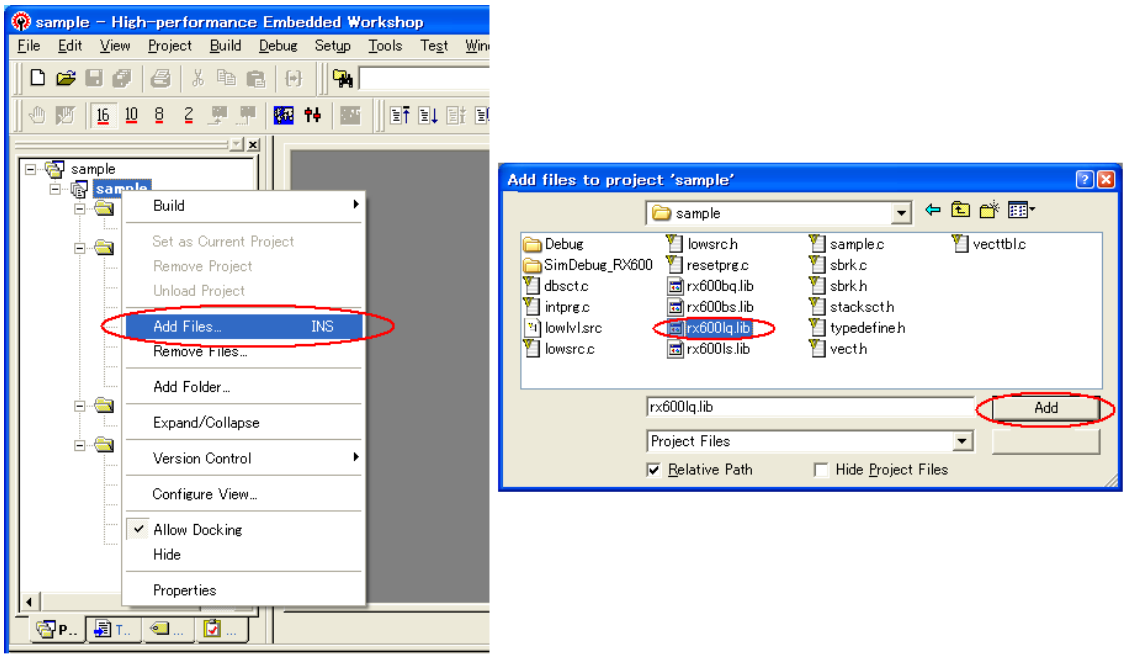
directory of (3).

[An example of the step (4) on the command prompt]

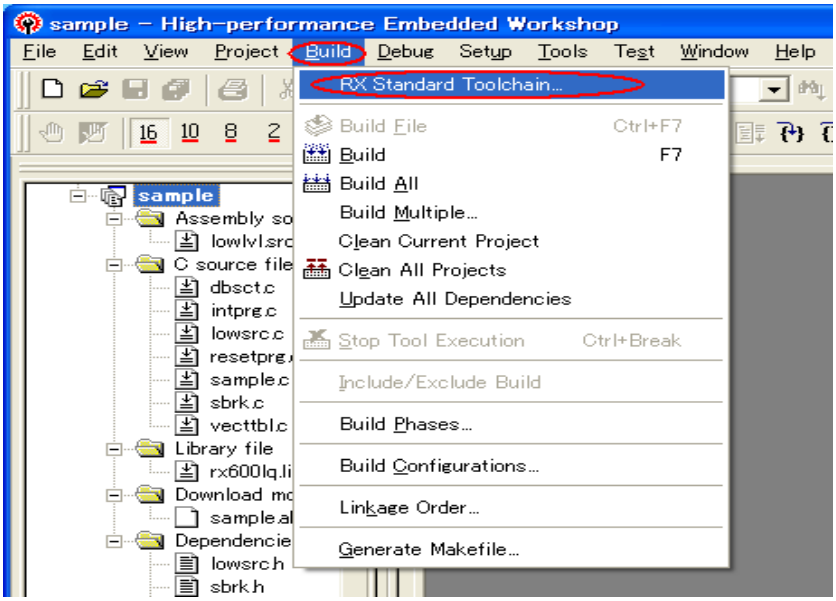
```
copy "C:\Program Files\Renesas\Hew\Tools\Renesas\RX\1_0_1\lib\rx600lq.lib" C:\WorkSpace\sample\sample
```

(5) Select a project in the [Workspace] window and right-click on it. Then select [Add files... INS] from the popup menu.

(6) Select the library file copied in step (4) and click on the [Add] button.



(7) Select [Build => RX Standard Toolchain...].

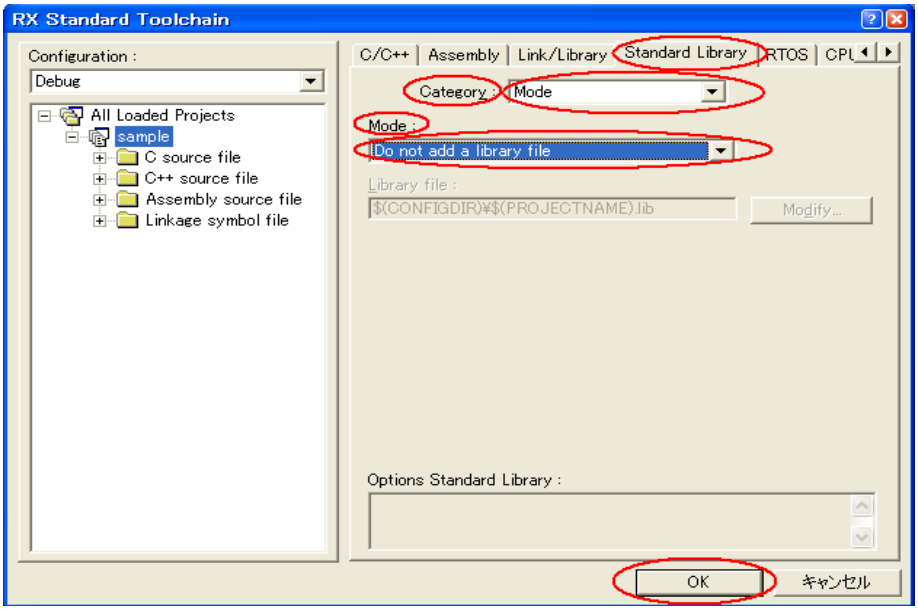


(8) Click on the [Standard Library] tab.

(9) Select [Mode] from the [Category:] pull-down menu.

(10) Select [Do not add a library file] from the [Mode:] pull-down menu.

(11) Click on the [OK] button to save the new setting.



Setting of the project is now complete.

When building of the project is executed, the library file selected in step (6) is linked.

2.3 Directly Specifying a Library File in the Optimizing Linkage Editor

Copy the library file(s) included in the package (stored in the location given in section 2.1) into a desired directory.

Then specify one of the copied library files for the Library option and start the linkage processing.