

## Notes on Using the Real-Time OSes M3T-MR308/4, -MR308 and M3T-MR30/4, -MR30

Please take note of the following problems in using the real-time OSes-- M3T-MR308/4, M3T-MR308, M3T-MR30/4, and M3T-MR30--for the M16C family of MCUs:

- With installing any product concerned to a directory whose path name contains space characters
- With creating projects for real-time OSes on the High-performance Embedded Workshop

### 1. Problem with Installing Any Product Concerned to a Directory Whose Path Name Contains Space Characters

#### 1.1 Products and Versions Concerned

Real-time OSes for the M32C/80 and M16C/80 series:

- M3T-MR308 V.1.20 Release 1 through V.1.20 Release 1B
- M3T-MR308/4 V.4.00 Release 00 and V.4.00 Release 01

Real-time OSes for the M16C/60, /30, /20, /10 and /Tiny series:

- The M3T-MR30 V.3.30 Release 1 and V.3.30 Release 2
- The M3T-MR30/4 V.4.00 Release 00

#### 1.2 Description

When you install any of the above products in a directory whose path name contains space characters, you will see a warning message saying "This directory including problems !" appears.

If this is the case, neglect the message and press the OK button, and after another message "Please back and re-input install directory." dispatched, click the NO button. The installation will be started.

## 2. Problem With Creating Projects for Real-Time OSEs on the High-performance Embedded Workshop

### Products and Versions Concerned

2.1 M3T-MR308/4, M3T-MR308, M3T-MR30/4, and M3T-MR30

### 2.2 Description

When you use any of the products concerned together with any of the specific C compiler packages to create and build projects, you have to make modifications to the settings of the High-performance Embedded Workshop.

The specific C compiler packages are as follows:

- The C compiler packages M3T-NC308WA V.5.41 Release 00 and later (for the M32C/90, M32C/80 and M16C/80 series)
- The C compiler packages M3T-NC30WA V.5.42 Release 00 and later (for the M16C/60, /30, /20, /10, /Tiny and R8C/Tinyseries)

### 2.3 The Modified Settings of the High-performance Embedded Workshop

Perform the procedures described in (1) through (3) below. (PDF, 316KB)

(1) **Select M16C Family MRxxx V.x.xx Release xx in the RTOS**

drop-down menu of the New Project-2/6-Select RTOS dialog box when you create a new workspace.

(2) **Apply the following procedure.**

**When the M3T-MR308/4 or M3T-MR30/4 used:**

- (a) Click the Link tab of the Renesas \*\*\*\* Standard Toolchain dialog box. Symbol \*\*\*\* varies with compiler packages.
- (b) Select Input in the Category drop-down list, and Library files in the Show entries for drop-down list.  
Next, click the Add button; Library directory and Library file will be displayed in tree structures. Then click Library file to open the Add library file dialog box.
- (c) Enter either of the following to the Library name text box and click the OK button:
  - "mr308.lib,c308mr.lib" in the M3T-MR308/4
  - "mr30.lib,c30mr.lib" in the M3T-MR30/4
- (d) Click the RTOS tab of the Renesas \*\*\*\* Standard Toolchain dialog box.

- (e) Select uITRON Specification in the Category drop-down list.
- (f) Select 4.0 in the uITRON version tab.

**When the M3T-MR308 or M3T-MR30 used:**

- (a) Click the Link tab of the Renesas \*\*\*\* Standard Toolchain dialog box.
- (b) Select Source in the Category drop-down list, and Defines in the Show entries for drop-down list.  
Next, click the Add button to open the Add Define dialog box.
- (c) Enter far\_msg in the Macro text box. Next, enter 1 in the Replacement text box if 32-bit messages size is used in the mail-box function, or 0 if 6-bit messages size is used in it.  
Then click the OK button to close the Add define dialog box.
- (d) Click the Link tab of the Renesas \*\*\*\* Standard Toolchain dialog box.
- (e) Select Input in the Category drop-down list, and Library files in the Show entries for drop-down list.  
Next, click the Add button; Library directory and Library file will be displayed in tree structures. Then click Library file to open the Add library file dialog box.
- (f) Enter any of the following to the Library name text box and click the OK button:  
In the M3T-MR30:
  - "mr30.lib,c30mr.lib" if 16-bit messages size is used in the mailbox function
  - "mr30lm.lib,c30mrlm.lib" if 32-bit messages size is used in the mailbox functionIn the M3T-MR308:
  - "mr308.lib,c308mr.lib" if 16-bit messages size is used in the mailbox function
  - "mr308lm.lib,c308mrlm.lib" if 32-bit messages size is used in the mailbox function

- (3) **Click the OK button to close the Renesas \*\*\*\* Standard Toolchain dialog box.**
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