

A Note on Using the Simulator Debugger for the R32C MCU Series V.1.00 Release 00

Please take note of the following problem in using the simulator debugger for the R32C MCU series V.1.00 Release 00:

- With displaying the values of int-type variables of 32 bits long

The simulator debugger is included in the C compiler package for the R32C MCU series.

1. Description

If the value of an int-type variable of 32 bits long is displayed by using any one of the following, the upper 16 bits take always 0s:

- (1) The C Watch window
- (2) The print command (when typed in the Script window)
- (3) The pop-up window appearing when you move the mouse pointer over a variable name in the Editor window

For example, declare the int-type variable of 32 bit long "val" as follows:

```
int val = 0x10000;
```

And the value of val will be represented to be 0x0.

Note, however, that if the 32-bit variable actually takes a 16-bit or less value, this problem does not arise.

2. Workaround

To avoid this problem, reference the value of an int-type variable of 32 bits long, for example, val, by using either of the following methods:

- (1) To register the variable val, type the following into the text box of the Add new watch point dialog box, and then reference the value

of the variable in the C Watch window:

```
*(long *)&val
```

To open the Add new watch point dialog box:

- (a) Click the Watch tab in the C Watch window.
- (b) Right-click anywhere in the window of the Watch tab to expand a pop-up menu.
- (c) Select Add.

- (2) As a print command, type the following into the Enter Command text box of the Script window, and then reference the value of the variable in this window:

```
print *(long *)&val
```

3. Schedule of Fixing the Problem

We plan to fix this problem in the next release of the product.

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