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## A Note on Using the High-performance Embedded Workshop V.4.00.00 --On Specifying Radixes in HDI Commands--

Please take note of the following problem in using the High-performance Embedded Workshop V.4.00.00, an integrated development environment:

- On specifying radixes in HDI\* commands  
\* Hitachi Debugging Interface

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### 1. Product and Version Concerned

The High-performance Embedded Workshop V.4.00.00

To check for the version number of your High-performance Embedded Workshop, open the Help menu and select the About High-performance Embedded Workshop command.

### 2. Description

#### 2.1 On a Change Made to the Specification of Radixes in HDI Commands

In the High-performance Embedded Workshops V.2.2, V.3.0, and V.3.1, every number with no prefix in HDI commands is always interpreted as a decimal number. In its V.4.00.00, on the contrary, a change has been made so that numbers are represented in the numeral system with the specified radix. (The specified radix can be checked for using the Radix button on the toolbar or the Radix command.)

Consequently, when you manipulate in V.4.00.00 numbers entered using a previous version with no prefix, you need to represent them in the decimal system by selecting a radix of 10. Or, if you select a radix in another numeral system, you need to place a 'D' at the beginning of the numbers you want to manipulate as decimal ones. Examples are shown below.

Examples in the hdi status command:

Command syntax: hdi status <linenumber>

When `linenumber` is set to 11 in the High-performance Embedded Workshop V.3.1 (see Example 1 below), V.4.00.00 interprets it as a hexadecimal number. If you want to manipulate it as a decimal number, place a 'D' in front of it (see Example 2).

Example 1: `hdi status 11`

Example 2: `hdi status D'11`

However, the following two problems occur at specifying radices in HDI commands.

## 2.2 Problems

- (1) When a number has no prefix in the `hdi memwrite` command with a radix of 16 being selected (hexadecimal notation), an error will arise if all of these letters, A, B, C, D, E, and F, are contained in this number (see Example below). (This problem occurs in the High-performance Embedded Workshops V.2.2, V.3.0, and V.3.1.)

Example in the `hdi memwrite` command:

Command syntax: `hdi memwrite <space> <address> <size> <data>`

Example: `hdi memwrite 0 0 4 89ABCDEF`

- (2) When a number has a prefix of `0x` in the `hdi memread` command with a radix of 2, 8, or 10 being selected, an error will arise.

Example in the `hdi memread` command:

Command syntax: `hdi memread <space> <address> <count> <size>`

If a prefix of `0x` is used in all the space, count, and size parameters, an error arises (see Example Below).

Example: `hdi memread 0x0 0x10 0xA 0x1`

Example in the `hdi memwrite` command:

Command syntax: `hdi memwrite <space> <address> <size> <data>`

If a prefix of `0x` is used in all the space, size, and data parameters, an error arises (see Example Below).

Example: `hdi memwrite 0x0 0x10 0x1 0xFF`

Example in the `hdi msgbox` command:

Command syntax: `hdi msgbox <text> [<options>]`

If a prefix of `0x` is used in the options parameters, an error arises (see Example Below).

Example: `hdi msgbox Message 0x1`

Example in the `hdi progress` command:

Command syntax: `hdi progress <text> <percentage>`

If a prefix of `0x` is used in the percentage parameters, an

error arises (see Example Below).

Example: hdi progress Message 0x1

Example in the hdi status command:

Command syntax: hdi status <linenumber>

If a prefix of 0x is used in the linenumber parameters, an error arises (see Example Below).

Example: hdi status 0x1

### 3. Workaround

- (1) If a number contains all of these letters, A, B, C, D, E, and F, in the hdi memwrite command with a radix of 16 being selected, give a prefix of H' to the number.

Example: hdi memwrite 0 0 4 H'89ABCDEF

- (2) When a number has a prefix of 0x with a radix of 2, 8, or 10 being selected, remove the 0x or give a prefix of H' depending on the value.

Example: hdi memread 0 0x10 H'A 1

### 4. Schedule of Fixing the Problem

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

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