

## A Note on Using High-performance Embedded Workshop

Please take note of the following problem in using High-performance Embedded Workshop (IDE):

- With referencing member variables defined in a nested unnamed union

### 1. Description

If member variables of a nested unnamed union are defined using High-performance Embedded Workshop and any of the following debuggers, these member variables cannot be referenced by the debugger.

- Simulator debugger for the SuperH RISC engine family
- Simulator debugger for the H8SX, H8S, and H8 families
- E8 emulator software
- E10A-USB emulator software
- E10T-USB emulator software
- E200F emulator software
- E6000H emulator software
- E6000 emulator software

### 2. Conditions

This problem occurs if the following conditions are all satisfied:

- (1) Load modules are created in the ELF/DWARF2 object format.
- (2) an unnamed union is nested.

#### 2.1 Example in Type Declaration

```
union {
    unsigned char digit2[2];
    unsigned short word2;
    union {
        unsigned char digit_nested[2]; *
        unsigned short word_nested;  *
    };
};
```

```
};
```

\*The debugger cannot reference the member variables of these nested unnamed unions.

### **3. Solution**

This problem has been fixed in the High-performance Embedded Workshop V.4.03.00.

For details see RENESAS TOOL NEWS Document No. 070701/tn3, issued on July 1, 2007, in this series of news.

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