RENESAS Tool News

RENESAS TOOL NEWS on March 16, 2005: RSO-HEW_1-050316D

A Note on Using the High-performance Embedded Workshop
--On Debugging ELF/DWARF2-Formatted Load Modules--

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

- On debugging ELF/DWARF2-formatted load modules

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1. **Versions Concerned**
   High-performance Embedded Workshop V.2.1 through 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**
   Debugging load modules created in the ELF/DWARF2 format may cause the High-performance Embedded Workshop to terminate abnormally.

   2.1 Conditions

   This problem occurs if the following problems are all satisfied:

   (1) A class- or structure-type variable is defined which has union-type objects without names as its members.

   (2) The variable in (1) is displayed in the Watch or Local window.

   (3) (2)Then the variable in (1) is expanded to display* in the same window.
   * To expand a variable to display is to display its members.

   Example:

```
-------------------------------------
  struct Str3 {
    long total;
    union {
      int  i;
```

```
        char c;
      };
    } gObj;
-----------------------------------
```

In the above example, the High-performance Embedded Workshop terminates abnormally when the "gObj" variable is expanded to display.

3. Workaround

This problem can be circumvented in either of the following ways:

(1) In the case shown in the above example, enter union-type members without names into the Watch window such a manner as "gObj.i" or "gObj.c"

(2) Define union-type members without names by giving variable names as shown in the example below.

Example:

```
-----------------------------------
struct Str3 {
   long total;
   union {
      int  i;
      char c;
   } m_Uni;     /* Define by giving a variable name */
} gObj;
-----------------------------------
```

4. Schedule of Fixing the Problem

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