

RENESAS TOOL NEWS on June 16, 2005: RSO-SQMLint-050616D

A Note on Using the SQMLint (the MISRA C Rule Checker)

Please take note of the following problem in using the SQMLint, the MISRA C Rule Checker:

- On a violation of Rule 29
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1. Versions Concerned

SQMLint V.1.00 Release 0 through V.1.02 Release 00

2. Description

Though no expression where an integer is assigned to an enumeration variable violates Rule 29, it delivers the error message that says "[MISRA(29) Complaining: "file name",line "X"] enum type object to which has not been assigned own enumerator."

- "file name" denotes the name of the file in which a violation of Rule 29 is found.
- "X" denotes the number of the line in which the description that violates Rule 29 is found.

3. Conditions

This problem occurs if the following conditions are both satisfied:

- (1) In the source program exists an expression where an integer is assigned to an enumeration variable.
- (2) The source program is compiled using the option to check the violation of Rule 29 in MISRA C (option names depend on compilers).

Example:

```
-----  
enum E { ONE = 1, TWO };  
enum E e;
```

```
e = 1;      /* Condition (1) */
```

4. Workaround

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

- (1) Neglect the error message if the above conditions are satisfied.
- (2) To the enumeration variable, assign an enumeration constant; not an integer.

```
enum E { ONE = 1, TWO };
```

```
enum E e;
```

```
e = ONE;      /* Assign enumeration constant ONE  
              to enumeration variable "e" */
```

5. Schedule of Fixing the Problem

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

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