

A Note on Using the MISRA C Rule Checker--SQMlint

Please take note of the following problem in using the MISRA C rule checker, SQMlint:

- With the messages saying initialization expressions are violating Rule 1
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1. Product and Versions Concerned

The MISRA C rule checker, SQMlint
V.1.00 Release 1 through V.1.03 Release 00

2. Description

When the initialization expression of a global variable or a static variable within a function is written, the following message, complaining about violation of Rule 1, may be dispatched though it could not be done:

[MISRA(1) Complaining] non-constant expression of initializer for static object

2.1. Conditions

This problem occurs if either of the following conditions is satisfied:

- (1) The address of a multi-dimensional array is used for the initializer of a global variable.
- (2) The address of a multi-dimensional array is used for the initializer of a static variable within a function.

2.2. Examples

Examples in Condition (1)

```
-----  
char ary[5][5];  
const char* ptr = &ary[3][3];  
-----
```

Examples in Condition (2)

```
void func(void)
{
    static char ary[5][5];
    static const char* ptr = &ary[3][3];
}
```

3. Solution

Neglect the message saying Rule 1 is violated that concern this problem.

4. Schedule of Fixing the Problem

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

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