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C static code analysis

Unique rules to find Bugs, Vulnerabilities, Security Hotspots, and Code Smells in your C code

ΑII 311 6 Vulnerability (13) rules

₩ Bug (74)

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Tags

Search by name.

"memset" should not be used to delete sensitive data

6 Vulnerability

POSIX functions should not be called with arguments that trigger buffer overflows

Vulnerability

XML parsers should not be vulnerable to XXE attacks

Vulnerability

Function-like macros should not be invoked without all of their arguments

₩ Bug

The address of an automatic object should not be assigned to another object that may persist after the first object has ceased to exist

👬 Bug

"pthread_mutex_t" should be unlocked in the reverse order they were locked

"pthread_mutex_t" should be properly initialized and destroyed

Bua

"pthread_mutex_t" should not be consecutively locked or unlocked

Bug

Functions with "noreturn" attribute should not return

Bug

"memcmp" should only be called with pointers to trivially copyable types with no padding

🖷 Bug

Switch labels should not be nested inside non-switch blocks

Analyze your code

Code Smell



misra-c++2008 misra-c2004 confusing misra-c2012

A switch-label can be placed anywhere within the statements that form the body of a switch statement, potentially leading to unstructured code. To prevent this from happening, the scope of a case-label or default-label shall be the statement forming the body of a switch statement. All case-clauses and the default-clause shall be at the same scope.

Noncompliant Code Example

```
switch (x) {
  case 1: // Compliant
   if (foo) {
     case 2: // Noncompliant
        break;
     default: // Noncompliant
        break;
   break:
  default: // Compliant
   break;
```

- MISRA C 2004, 15.1 A switch label shall only be used when the most closelyenclosing compound statement is the body of a switch statement.
- MISRA C++ 2008. 6-4-4 A switch-label shall only be used when the most closelyenclosing compound statement is the body of a switch statement.
- MISRA C 2012, 16.2 A switch label shall only be used when the most closelyenclsoing compound statement is the body of a switch statement

Available In:

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Developer

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Stack allocated memory and nonowned memory should not be freed

R
Bug

Closed resources should not be
accessed
Bug

Dynamically allocated memory should
be released
Bug

Freed memory should not be used