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C static code analysis

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

All rules **311**

Vulnerability **13**

Bug **74**

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Tags

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"memset" should not be used to delete sensitive data

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

Bug

"pthread_mutex_t" should be properly initialized and destroyed

Bug

"pthread_mutex_t" should not be consecutively locked or unlocked twice

Bug

Functions with "noreturn" attribute should not return

Bug

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

Bug

All uses of the #pragma directive should be documented

Analyze your code

Code Smell Major based-on-misra cert

The `#pragma` directive is implementation-defined, hence it is important both to demonstrate that all uses are correct, and to minimize, localize and encapsulate any use of pragmas within dedicated functions whenever possible.

The meaning of each pragma shall be documented.

There shall be sufficient supporting description to demonstrate that the behavior of the pragma and its implications for the application, have been fully understood.

This rule flags all instances of `#pragma` directives, and leaves it to the user to determine whether they have been properly documented.

See

- MISRA C:2004, 3.4 - All uses of the `#pragma` directive shall be documented and explained
- MISRA C++:2008, 16-6-1 - All uses of the `#pragma` directive shall be documented
- CERT, MSC00-C** - Compile cleanly at high warning levels

Available In:

sonarlint | sonarcloud | sonarqube Developer Edition

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Stack allocated memory and non-owned memory should not be freed

 Bug

Closed resources should not be accessed

 Bug

Dynamically allocated memory should be released

 Bug

Freed memory should not be used