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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

Security Hotspot 18

Code Smell 206

Quick Fix 14

Tags

Search by name...

"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

Unused labels should be removed

Analyze your code

Code Smell Major based-on-misra cert unused

If a label is declared but not used in the program, it can be considered as dead code and should therefore be removed.

This will improve maintainability as developers will not wonder what this label is used for.

Noncompliant Code Example

```
void fun() {
    label: doSomething();
}
```

Compliant Solution

```
void fun() {
    doSomething();
}
```

See

- MISRA C:2012, 2.6 - A function should not contain unused label declarations
- [CERT, MSC12-C.](#) - Detect and remove code that has no effect or is never executed

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