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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

Function parameters' initial values should not be ignored

Analyze your code

Bug Minor based-on-misra

While it is technically correct to assign to parameters from within function bodies, it is better to use temporary variables to store intermediate results.

Allowing parameters to be assigned to also reduces the code readability as developers will not be able to know whether the original parameter or some temporary variable is being accessed without going through the whole function.

Noncompliant Code Example

```
int glob = 0;
void function (int a) {
    a = glob; // Noncompliant
    ...
}
```

Compliant Solution

```
int glob = 0;
void function (int a) {
    int b = glob;
    ...
}
```

See

- MISRA C:2012, 17.8 - A function parameter should not be modified

Available In:

sonarlint | sonarcloud | sonarqube Developer Edition

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