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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)

Security Hotspot

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Smell

O Quick 14

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

₩ Bua

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

🖷 Bug

All branches in a conditional structure should not have exactly the same implementation

Analyze your code

Having all branches in a switch or if chain with the same implementation is an error. Either a copy-paste error was made and something different should be executed, or there shouldn't be a switch/if chain at all.

Noncompliant Code Example

🛊 Bug 🔷 Major 🕝

```
if (b == 0) { // Noncompliant
 doOneMoreThing();
} else {
  doOneMoreThing();
int b = a > 12 ? 4 : 4; // Noncompliant
switch (i) { // Noncompliant
 case 1:
   doSomething();
   break;
  case 2:
   doSomething();
   break:
  case 3:
   doSomething();
   break:
   doSomething();
```

Exceptions

This rule does not apply to if chains without else-s, or to switch-es without default clauses.

```
if(b == 0) {
               //no issue, this could have been done on purp
  doSomething();
} else if(b == 1) {
  doSomething();
```

Available In:

sonarlint ⊕ | sonarcloud 👌 | sonarqube |

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Privacy Policy

Stack allocated memory and non- owned memory should not be freed
ਜੰ Bug
Closed resources should not be accessed
👬 Bug
Dynamically allocated memory should be released
∰ Bug
Freed memory should not be used