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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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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

<table-of-contents> Bug

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

🖷 Bug

Conditionals should start on new suspicious

Analyze your code

Code is clearest when each statement has its own line. Nonetheless, it is a common pattern to combine on the same line an if and its resulting then statement. However, when an if is placed on the same line as the closing } from a preceding then, else or

 \emph{else} if part, it is either an error - \emph{else} is missing - or the invitation to a future error as

Noncompliant Code Example

```
if (condition1) {
  // ...
} if (condition2) { // Noncompliant
  //...
```

maintainers fail to understand that the two statements are unconnected.

Compliant Solution

```
if (condition1) {
  // ...
} else if (condition2) {
  //...
```

Or

```
if (condition1) {
  // ...
if (condition2) {
 //...
```

Available In:

sonarlint ⊖ | sonarcloud 🐼 | sonarqube

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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