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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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18

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O Quick 14

"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

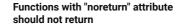
Bug

Functions with "noreturn" attribute should not return

👬 Bug

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

🖷 Bug



Analyze your code

Search by name.

📆 Bug \phantom \rm Blocker 🔞

The attribute noreturn indicates that a function does not return.

Using this attribute allows the compiler to do some assumptions that can lead to optimizations. However, if a function with this attribute ever returns, the behavior becomes undefined.

confusing

Noncompliant Code Example

```
[[noreturn]] void f () {
  while (1) {
   // ...
   if (/* something*/) {
     return; // Noncompliant, this function should not retur
```

Compliant Solution

```
[[noreturn]] void f() { // Compliant
  while (true) {
   // ...
```

Or

```
void f() {
  while (true) {
   if (/* something*/) {
     return; // Compliant
```

Available In:

sonarlint ⊕ | sonarcloud 💩 | sonarqube 🏋

Developer

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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