



ABAP

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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

⊗ Code 206 Smell

O Quick 14

Tags

18

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

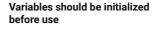
Bug

Functions with "noreturn" attribute should not return

Bug

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

🖷 Bug



Analyze your code

👬 Bug 🔷 Major 🕝 cwe symbolic-execution based-on-misra

Variables should be initialized before their use to avoid unexpected behaviors due to garbage values.

Noncompliant Code Example

```
int function(int flag, int b) {
 if (flag) {
   a = b;
 return a; // Noncompliant - "a" has not been initialized in
```

Compliant Solution

```
int function(int flag, int b) {
  int a = 0;
  if (flag) {
   a = b;
 return a;
```

- MITRE, CWE-457 Use of Uninitialized Variable
- MISRA C:2004, 9.1 All automatic variables shall have been assigned a value before being used.
- MISRA C++:2008, 8-5-1 All variables shall have a defined value before they are used.

Available In:

sonarlint ⊕ | sonarcloud ♦ | sonarqube | Developer Edition

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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