O Quick 14





VB.NET

VB6

XML



ΑII 311

rules

C static code analysis

6 Vulnerability (13)

Unique rules to find Bugs, Vulnerabilities, Security Hotspots, and Code Smells in your C code

₩ Bug (74)

o Security

Tags

Hotspot

18

"memset" should not be used to delete sensitive data
POSIX functions should not be called with arguments that trigger buffer overflows
⑥ 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
n 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

Bug

👬 Bug

🖷 Bug

should not return

"pthread_mutex_t" should not be consecutively locked or unlocked

Functions with "noreturn" attribute

"memcmp" should only be called with

pointers to trivially copyable types with no padding

```
Statements should be on separate
                                                      Analyze your code
convention
For better readability, do not put more than one statement on a single line.
Noncompliant Code Example
  foo(); bar(); // Noncompliant
Compliant Solution
  foo();
  bar();
Exceptions
Control flow statements with a single nested statement are ignored.
                                                 // Compliant
  if (condition) doSomething();
  while (condition) doSomething();
                                               // Compliant
case or default statements containing a single statement and followed by break
are ignored.
  switch (foo) {
                                                 // Compliant
    case 0: doSomething(); break;
                                                 // Compliant
    default: doSomething(); break;
Statements enclosed in curly braces on the same line are ignored.
  auto lambda = [](int x) { doSomething(x); return x; }; // Com
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```

Smell 206

Search by name.

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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