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C static code analysis

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

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Vulnerability 13

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Tags

Search by name...



"memset" should not be used to delete sensitive data

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

Bug

"pthread_mutex_t" should be properly initialized and destroyed

Bug

"pthread_mutex_t" should not be consecutively locked or unlocked twice

Bug

Functions with "noreturn" attribute should not return

Bug

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

Bug

"#include_next" should not be used

Analyze your code

Code Smell Minor lock-in confusing

#include_next is a gcc-specific language extension that alters the search path for the specified header file by starting the search from the header file directory *after* the one in which the directive was encountered. It also ignores the distinction between "file" and <file>. It is typically used when you have two (probably related) header files with the same name, although there is nothing in the extension to enforce or limit the use to same-name files.

Use of this extension can be tricky to get right, and is almost never justified. Instead, you should use an absolute path in the #include statement or rename one of the files.

Noncompliant Code Example

```
#include_next "foo.h" // Noncompliant
```

Compliant Solution

```
#include "/usr/local/include/foo.h"
```

Available In:

sonarlint sonarcloud sonarqube Developer Edition

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Stack allocated memory and non-owned memory should not be freed

 Bug

Closed resources should not be accessed

 Bug

Dynamically allocated memory should be released

 Bug

Freed memory should not be used