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C static code analysis

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

All rules 311

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Tags

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"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

Parameters in a function prototype should be named

Analyze your code

Code Smell Major based-on-misra

Naming the parameters in a function prototype helps identify how they'll be used by the function, thereby acting as a thin layer of documentation for the function.

Noncompliant Code Example

```
void divide (int, int);
```

Compliant Solution

```
void divide (int numerator, int denominator);
```

See

- MISRA C:2004, 16.3 - Identifiers shall be given for all of the parameters in a function prototype declaration
- MISRA C:2012, 8.2 - Function types shall be in prototype form with named parameters

Available In:

sonarlint | sonarcloud | sonarqube Developer Edition

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