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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**

Vulnerability **13**

Bug **74**

Security Hotspot **18**

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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

### Octal and hexadecimal escape sequences should be terminated

Analyze your code

Code Smell Critical based-on-misra misra-c2012 pitfall

There is potential for confusion if an octal or hexadecimal escape sequence is immediately followed by other characters. Instead, such sequences shall be terminated by either:

- The start of another escape sequence.
- The end of the character constant or the end of a string literal.

#### Noncompliant Code Example

```
const char *s1 = "\x41g"; // Noncompliant
int c1 = '\141t'; // Noncompliant
```

#### Compliant Solution

```
const char *s2 = "\x41" "g"; // Compliant - terminated by end
const char *s3 = "\x41\x67"; // Compliant - terminated by another escape
int c2 = '\141\t'; // Compliant - terminated by another escape
```

#### See

- MISRA C:2012, 4.1 - Octal and hexadecimal escape sequences shall be terminated

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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