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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	⊗ Code Smell 206	⚡ Quick Fix 14

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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

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

🐛 Bug

Declarations should not be empty

Analyze your code

⊗ Code Smell   🟢 Minor ?   🏷 cert unused

Empty declarations are cruft; they (may) compile, but they violate the language standards, don't contribute anything of value, and clutter up the program. Like cobwebs, they should be swept away.

Noncompliant Code Example

```
int;  // Noncompliant
```

See

- ISO/IEC 9899:2011, 6.7p2
- ISO/IEC 14882:2011, 7p3.
- CERT, MSC12-C. - Detect and remove code that has no effect or is never executed

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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