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C static code analysis

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

O Quick 14 ΑII 311 Security 18 6 Vulnerability (13) **₩** Bug (74) rules Hotspot Smell

Tags

"memset" should not be used to delete sensitive data 6 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 # Bua "pthread_mutex_t" should not be consecutively locked or unlocked # Bug Functions with "noreturn" attribute should not return

<table-of-contents> Bug

🖷 Bug

with no padding

"memcmp" should only be called with pointers to trivially copyable types



Analyze your code

Search by name.

This is required by IEC 61508, under good programming style.

Noncompliant Code Example

```
int function1()
  return 3;
void function2()
  function1():
int function3(char* ptr) /* Noncompliant; two explicit return
  if (ptr == NULL) return -1;
  return 7;
void function4(char *ptr) /* Noncompliant; two returns, one e
  if (1) return;
 printf("hello world!\n");
```

- MISRA C:2004, 14.7 A function shall have a single point of exit at the end of the function.
- MISRA C++:2008, 6-6-5 A function shall have a single point of exit at the end of the function
- MISRA C:2012, 15.5 A function should have a single point of exit at the end

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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