O Quick 14





VB6

XML



6 Vulnerability (13)

ΑII 311

rules

Unique rules to find Bugs, Vulnerabilities, Security

₩ Bug (74)

Hotspots, and Code Smells in your C code

"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 "pthread_mutex_t" should be properly initialized and destroyed # Bua "pthread_mutex_t" should not be consecutively locked or unlocked

Bug

₩ Bua

🖷 Bug

should not return

with no padding

Functions with "noreturn" attribute

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

"static" should not be used for the Analyze your code size of an array parameter based-on-misra pitfall Theoretically, the use of the static keyword on the size of an array parameter means you can assume that only arrays of at least that size will be passed as arguments to the function. I.e. a function parameter of int my_array[static 10] means that my_array will always be at least 10 elements long. If it is not, the behavior is undefined. In practice, the use of ${\tt static}$ on the size of an array parameter means the compiler might issue a warning if a noncompliant array is passed to the function - a warning that might or might not be ignored. Therefore, in practice the use of \mathtt{static} on an array parameter's size merely lends a false sense of security, and static should not he used in this context Note that for some compiler/processor combinations, more efficient code can be generated when static is used, but these combinations are limited, and the benefit does not outweigh the cost. Noncompliant Code Example int total (int size, int my_array[static 10]) {...} Compliant Solution int total (int size, int my_array[10]) {...} See • MISRA C:2012, 17.6 - The declaration of an array parameter shall not contain the static keyword between the [] Available In: sonarlint ⊖ | sonarcloud ☆ | sonarqube | Develop Edition Developer

⊗ Code

Smell

206

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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