Bugs Framework (BF)

Memory Corruption/Disclosure (_MEM) Class Type
Memory Use (MUS) Class

Causes

Code Defect Bug
- Missing Code
- Mismatched Operation
- Erroneous Code

Data Fault
- Forbidden Address
- Wrong Size

Type Fault
- Casted Pointer

Address Fault
- NULL Pointer
- Wild Pointer
- Dangling Pointer
- Untrusted Pointer
- Over Bounds Pointer
- Under Bounds Pointer
- Wrong Position Pointer

Size Fault
- Not Enough Memory

Operations

- Initialize Object
- Dereference
- Read
- Write
- Clear

Operands

- Data
- Type
- Address
- Size

Consequences

Data Error
- Uninitialized Object

Memory Corruption/Disclosure Final Error
- Not Cleared Object
- NULL Pointer Dereference
- Untrusted Pointer Dereference
- Object Corruption
- Type Confusion
- Use After Free
- Buffer Overflow
- Buffer Underflow
- Buffer Over-Read
- Buffer Under-Read
- Uninitialized Pointer Dereference

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Attributes

Address State	Size Kind	Mechanism	Source Code	Execution Space
Stack	Actual	Direct	Codebase	Userland
Heap	Used	Sequential	Third-Party	Kernel
/other/			Standard Library	Bare-Metal
			Compiler/Interpreter	

Legend:
- Bug
- Fault/Error
- Final Error
- Operation/Operand