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x00x00x00x00 opened this issue on May 27, 2021 · 0 comments

Hi Team,

### Vulnerable code from read\_write.c -

/vulnerable code from gattlib.c -

```
// Transform string from 'DA:94:40:95:E0:87' to 'dev_DA_94_40_95_E0_87'
strncpy(device_address_str, mac_address, sizeof(device_address_str));
for (int i = 0; i < strlen(device_address_str); i++) {
    if (device_address_str[i] == ':') {
        device_address_str[i] = '_';
    }
}
```

## cd

```
cmake .. -DCMAKE_CXX_FLAGS="-fsanitize=address -fsanitize=leak -g" -DCMAKE_C_FLAGS="-fsanitize=address -fsanitize=leak -g"
```

[illegible]

=====

Address 0x7ffc83cd4d95 is located in stack of thread T0 at offset 53 in frame  
-0 0x7fb3c462c2bf in gattlib\_connect /home/zero/newfuz/gattlib/dbus/gattlib.c:136

This frame has 3 object(s):  
[32, 53] 'device\_address\_str.i' (line 103) <== Memory access at offset 53 overflows this variable  
[96, 104] 'error' (line 140)  
[128, 228] 'object\_path' (line 141)  
HINT: this may be a false positive if your program uses some custom stack unwind mechanism, swapcontext or vfork  
(longjmp and C++ exceptions are supported)  
SUMMARY: AddressSanitizer: stack-buffer-overflow (/home/zero/newfuz/gattlib/build/examples/read\_write/read\_write+0x42efb8) in strlen  
Shadow bytes around the buggy address:  
0x100010792960: 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00  
0x100010792970: 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00  
0x100010792980: 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00  
0x100010792990: 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00  
0x1000107929a0: 00 00 00 00 00 00 00 00 00 00 00 00 f1 f1 f1 f1  
=>0x1000107929b0: 00 00[05]f2 f2 f2 f2 00 f2 f2 00 00 f1 f1 f1 f1  
0x1000107929c0: 00 00 00 00 00 00 00 00 04 f3 f3 f3 f3 f3 f3  
0x1000107929d0: 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00  
0x1000107929e0: 00 00 00 00 00 00 00 00 00 00 00 f1 f1 f1 f1  
0x1000107929f0: 00 f2 f2 f8 f2 f2 f2 f8 f8 f8 f8 f2 f2 f2 f2  
0x100010792a00: f2 f2 f8 f8 f8 f8 f3 f3 f3 f3 00 00 00 00  
Shadow byte legend (one shadow byte represents 8 application bytes):  
Addressable: 00  
Partially addressable: 01 02 03 04 05 06 07  
Heap left redzone: fa  
Freed heap region: fd  
Stack left redzone: f1  
Stack mid redzone: f2  
Stack right redzone: f3  
Stack after return: f5  
Stack use after scope: f8  
Global redzone: f9  
Global init order: f6  
Poisoned by user: f7  
Container overflow: fc  
Array cookie: ac  
Intra object redzone: bb  
ASan internal: fe  
Left alloca redzone: ca  
Right alloca redzone: cb  
Shadow gap: cc  
==72493==ABORTING

**Request team to implement proper patch and validate**

Assignees

No one assigned

Labels

None yet

Projects

None yet

Milestone

No milestone

Development

No branches or pull requests

1 participant

