Buflab Session 2

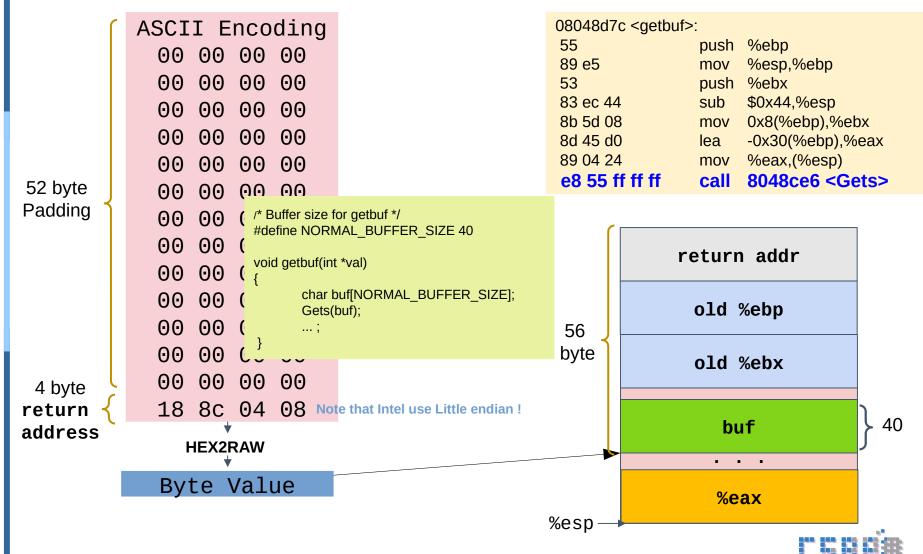


Hint of level 0, 1, 2, 3.



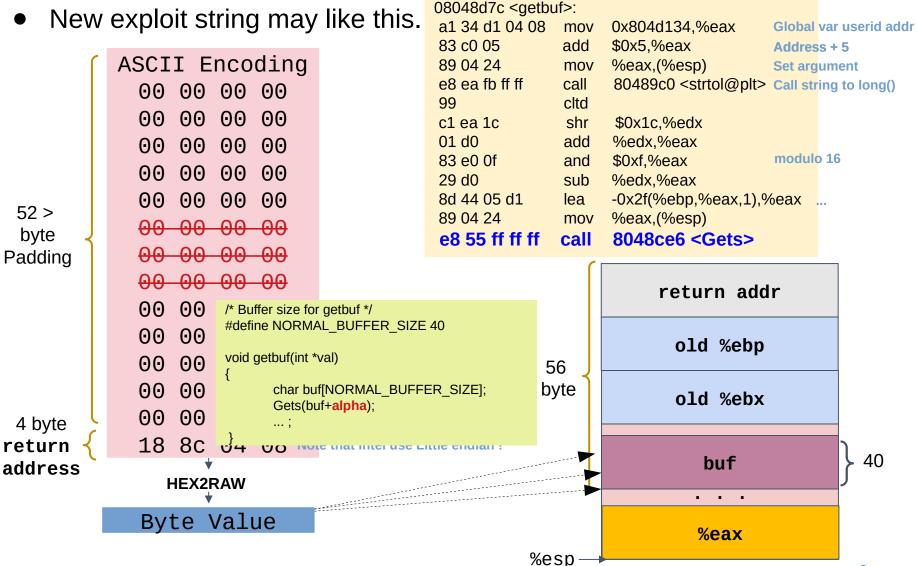
Level 0: Candle

In this case, exploit string may be like this.



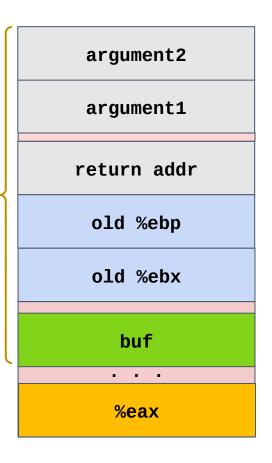
Level 0: Candle

New exploit string may like this.



Level 1: Sparkler

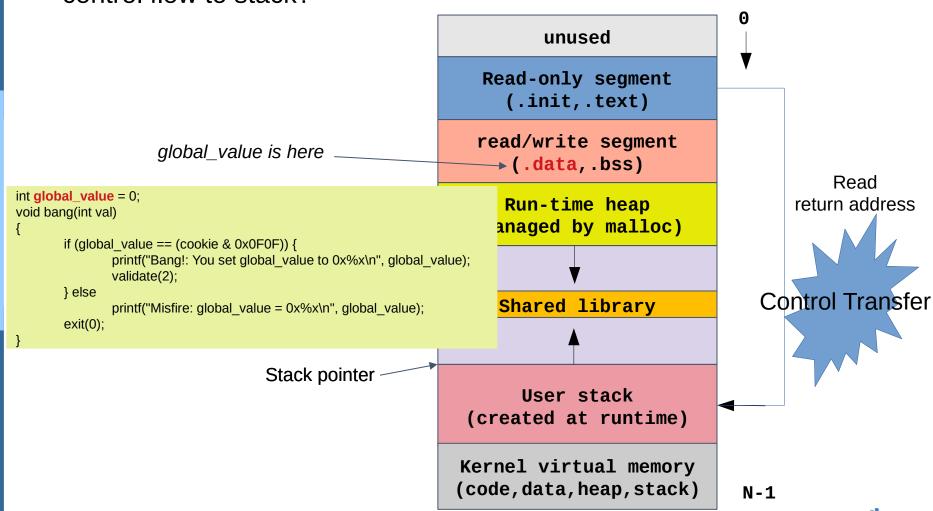
• Sparkler is similar to Candle, only additionally need to pass arguments.





Level 2: Firecracker

 Where is global variable global_value and can we pass the control flow to stack?



Level 3: Dynamite

- Why is 'local' declared as volatile?
- uniqueval() returns the same value in the same execution.
- Why compare local variables again and how refer to 'local'?

```
void test()
int val:
/* Put canary on stack to detect possible corruption */
volatile int local = uniqueval();
getbuf(&val);
/* Check for corrupted stack */
                                                            e8 c8 ff ff ff
                                                                                 call 8048e8e <uniqueval>
if (local != uniqueval()) {
                                                            8b 55 f0
                                                                                         -0x10(%ebp),%edx
                                                                                 mov
  printf("Sabotaged!: the stack has been corrupted\n");
                                                             39 d0f
                                                                                         %edx,%eax
                                                                                 cmp
else if (val == cookie) {
  printf("Boom!: getbuf returned 0x%x\n", val);
  validate(3);
} else {
  printf("Dud: getbuf returned 0x%x\n", val);
```



Buflab deadline: Next Tuesday, Oct 1st 16:59 PM

