Jump to bottom

stack buffer overflow in function get_key() in parse.c #84



New issue

⊙ Closed chibataiki opened this issue on Apr 26, 2021 · 0 comments

```
chibataiki commented on Apr 26, 2021 • edited 🕶
 Version 0cf4a55
 Stack buffer over found in parse.c in function get_key().
 The root cause maybe is in function c_set_k_acc(), the array accs and pits size is 8.
 If s-vu-key-sf bigger than 7, then the array accs and pits will access out of index and corrupt the stack, if the value of s-vu-key-sf is more bigger, then the stack frame will be corrupted.
  static void set_k_acc(struct SYMBOL *s)
         int i, j, nacc;
char accs[8], pits[8];
         if (s->u.key.sf > 0) {
    for (nacc = 0; nacc < s->u.key.sf; nacc++) {
                      accs[nacc] = A_SH;
pits[nacc] = sharp_tb[nacc];
gdb
  gef➤ disassemble set k acc
  0x0000555555559f754 <+8>:
                             sub rsp,0x40
     0x000055555559f758 <+12>: mov QWORD PTR [rbp-0x38],rdi
   0x55555559f955
   <set_k_acc+521>
     - source:parse.c+3943 -
                for (i = 0; i < nacc; i++) {
     3938
                     s->u.key.accs[i] = accs[i];
s->u.key.pits[i] = pits[i];
     3940
     3941
                s->u.key.nacc = nacc;
  • 3942
   → 3943 }
  gef➤ x/gx $rbp-0x8
   0x7fffffffe038: 0x0101010101010101
 reproduce:
 abcm2ps -E poc
 buffer-over-flow_parse.c_set_k_acc.zip
 reporter: chiba of topsec alphalab
\[ \[ \] \] moinejf added a commit that referenced this issue on Apr 28, 2021
```

fix: crash when accidental without a note at start of line after K: ... 3169ace Apr 29, 2021 Assignees No one assigned Labels None yet Projects None yet Milestone No milestone

Development

No branches or pull requests

1 participant

