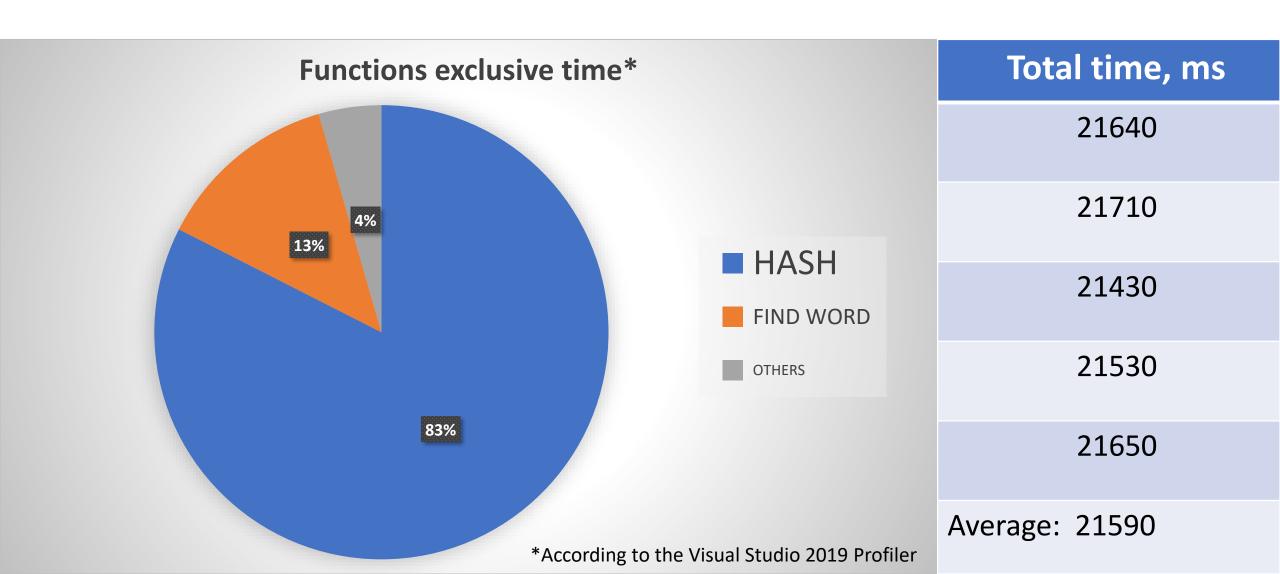
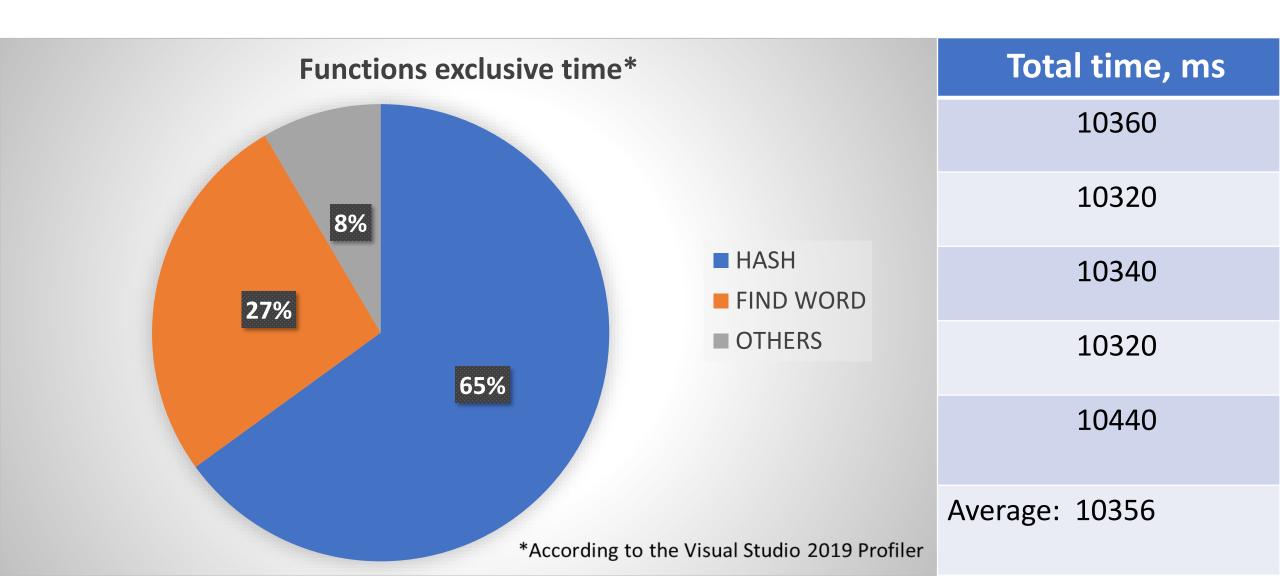
Before optimization

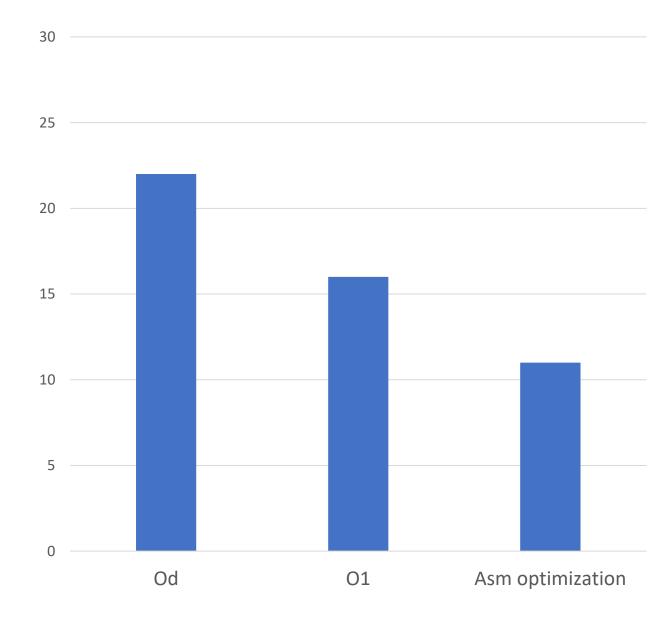


After optimization



Time comparison

- 2 times faster than unoptimized code
- 1.4 times faster than
 -O1 optimization



Details

```
int hash_func(char* first_letter)
{
  int hash = 5381;

  for (char* cur_letter = first_letter; *cur_letter != 0; ++cur_letter)
      hash = ((hash << 3) + hash) + *cur_letter;

  int table_hash = hash % Size_of_table;

  return table_hash;
}</pre>
```

```
hash_with_asm proc first_letter: dword, size_of_table: dword
    mov ecx, first_letter
    mov ebx, 5381
    hash_start:
            cmp byte ptr [ecx], 0
            je hash_end
            mov edx, ebx
            shl ebx, 3
            add ebx, edx
            add ebx, [ecx]
            inc ecx
    jmp hash_start
    hash_end:
    xor edx, edx
    mov eax, ebx
    mov ecx, size_of_table
    div ecx
    mov eax, edx
    ret
```