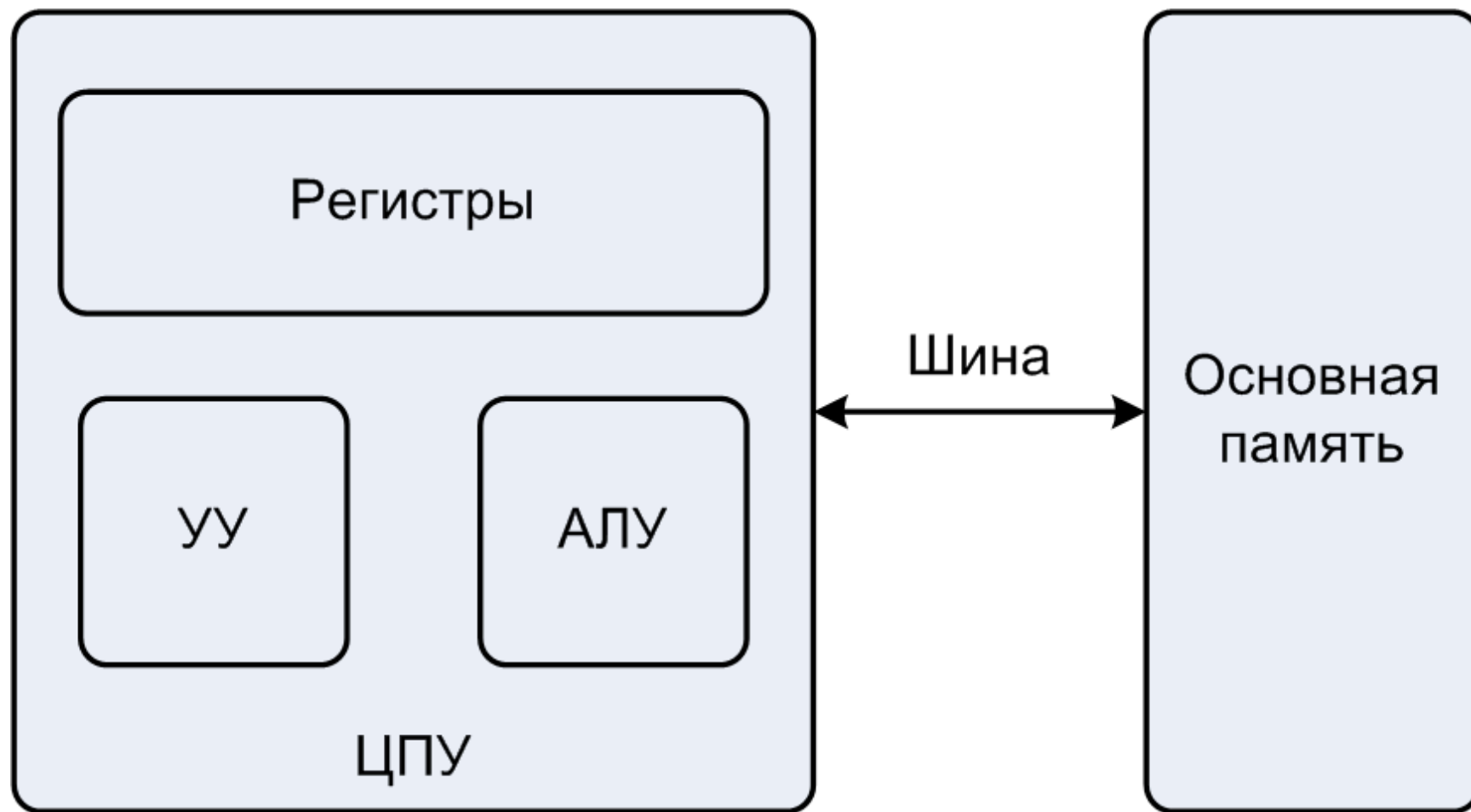
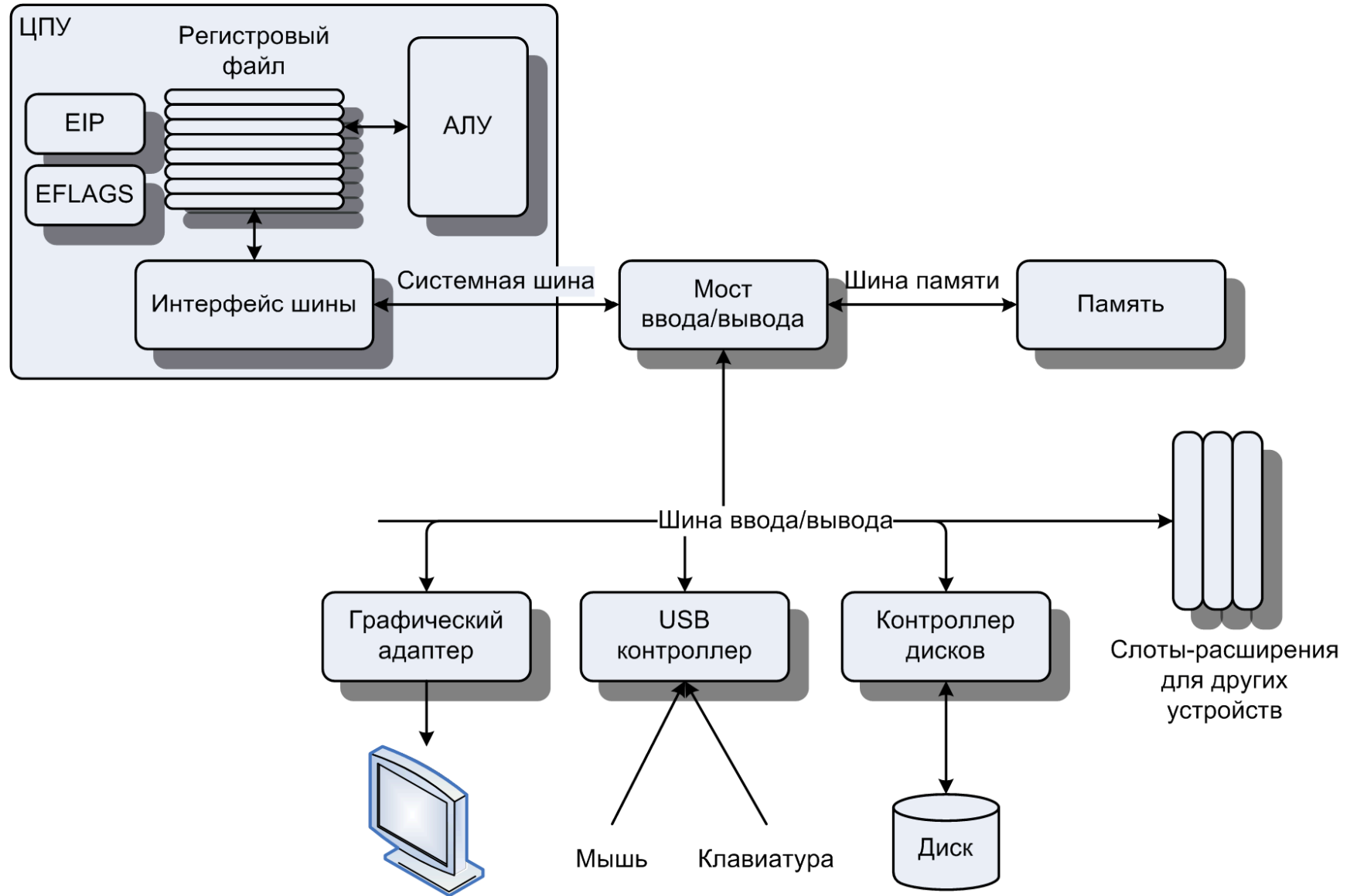
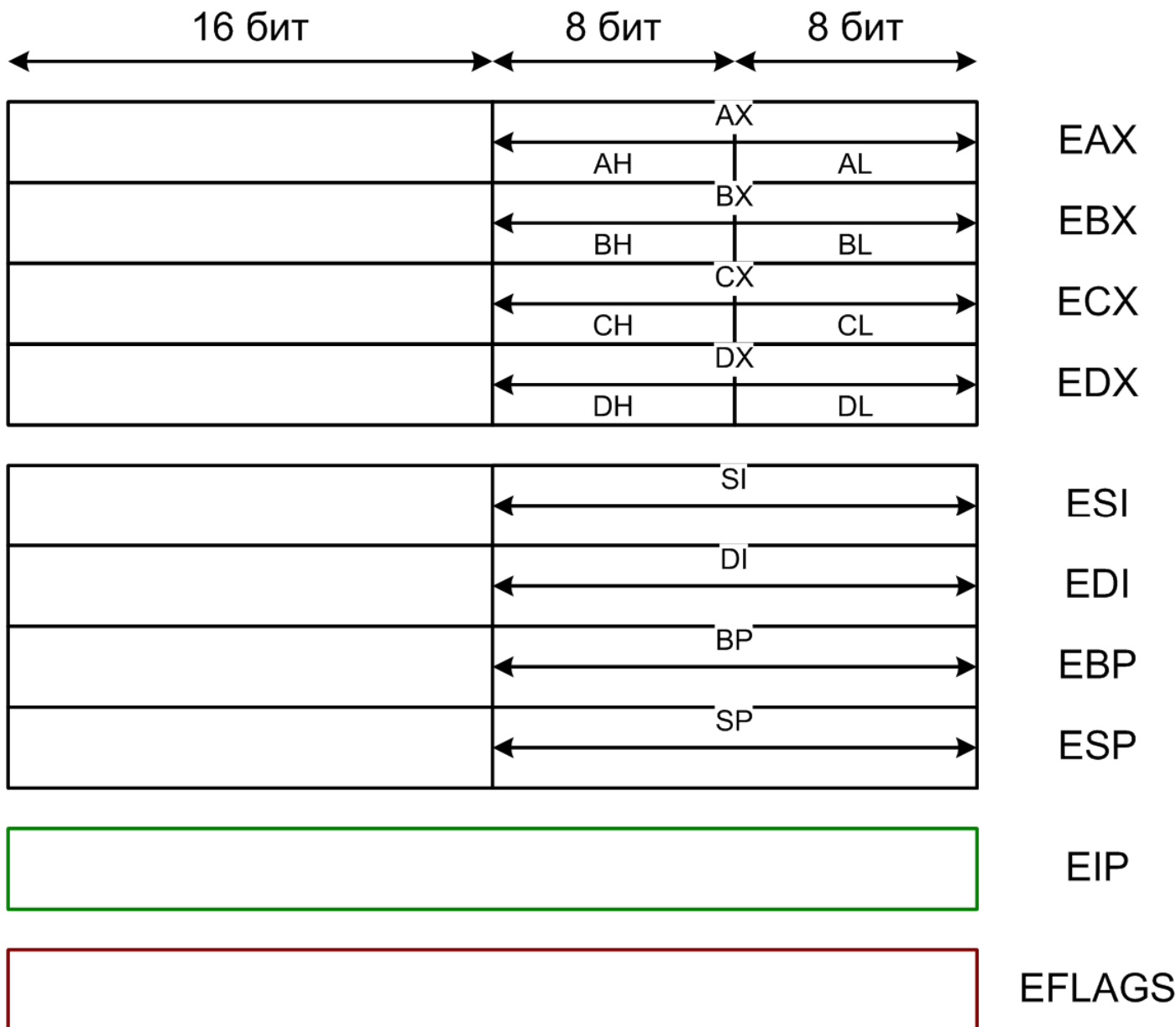


# Лекция 2

12 февраля







```

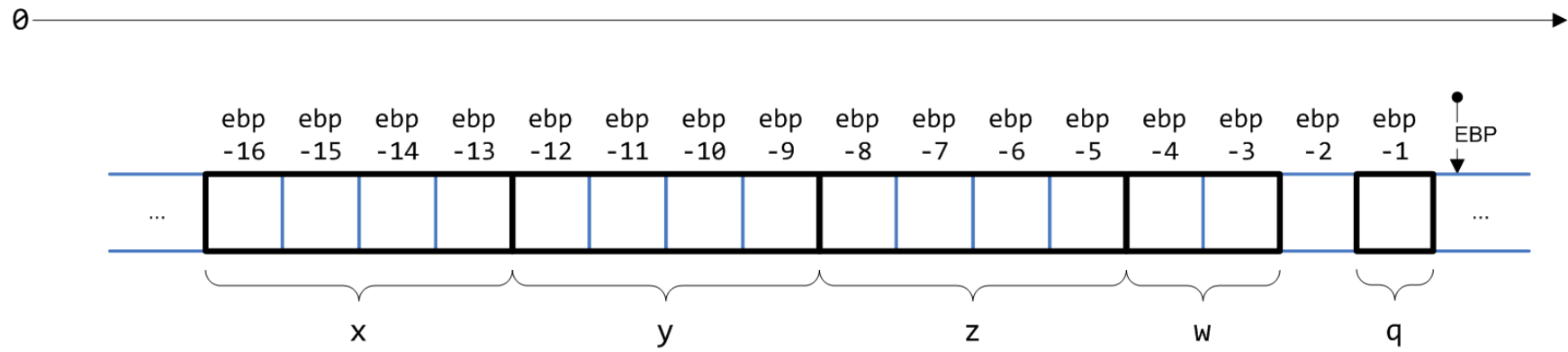
void f() {
    static int cntr = 0;      // 1
    int x = 2, y = 1, z = 0; // 2
    unsigned short w = 282;  // 3
    signed char q = 13;      // 4
    ++cntr;                  // 5
    z = -x + q * w * y - w;  // 6
}

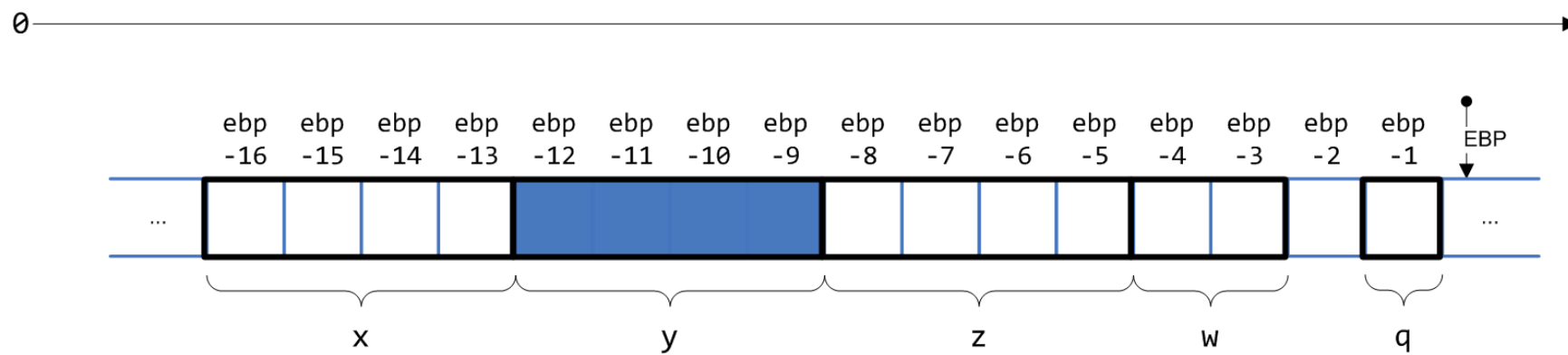
```

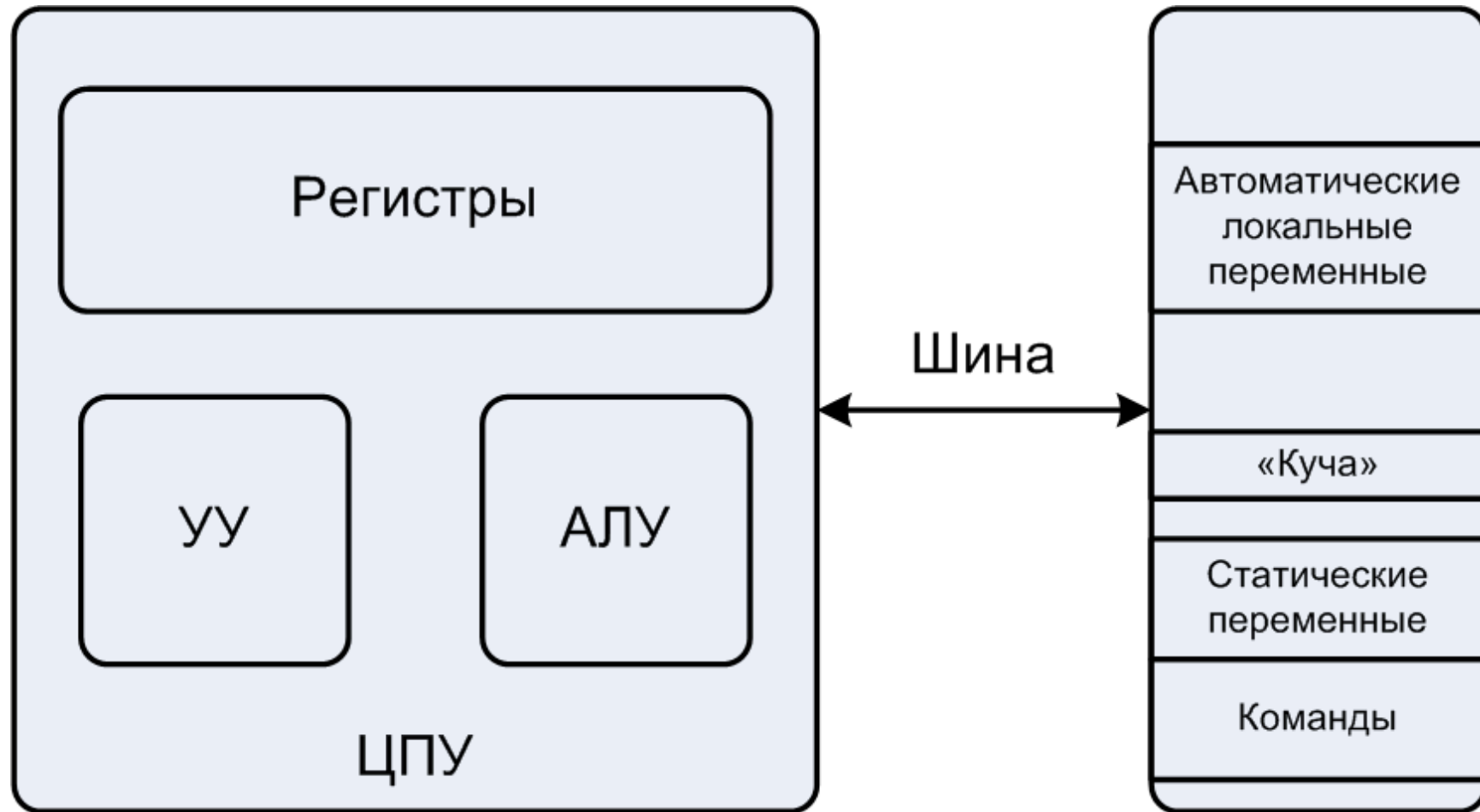
```

section .bss
; Резервирование 4 байт памяти
    cntr resd 1
section .text
    global f
; Точка входа в программу
f:
    push    ebp
    mov     ebp, esp
    sub     esp, 16
    mov     dword [ebp-16], 2      ; (1)
    mov     dword [ebp-12], 1     ; (2)
    mov     dword [ebp-8], 0      ; (3)
    mov     word  [ebp-4], 282    ; (4)
    mov     byte  [ebp-1], 13     ; (5)
    add     dword [cntr], 1       ; (6)
    movsx   eax, byte [ebp-1]     ; (7)
    movzx   edx, word [ebp-4]     ; (8)
    imul   eax, edx               ; (9)
    imul   eax, dword [ebp-12]   ; (10)
    sub     eax, dword [ebp-16]  ; (11)
    sub     eax, edx              ; (12)
    mov     dword [ebp-8], eax    ; (13)
    leave
    ret

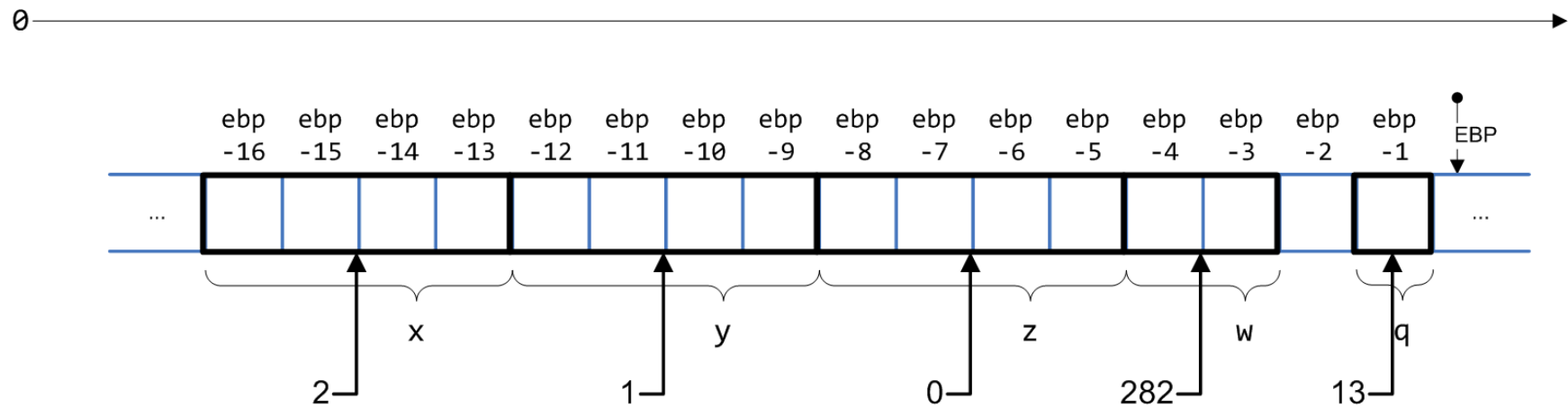
```

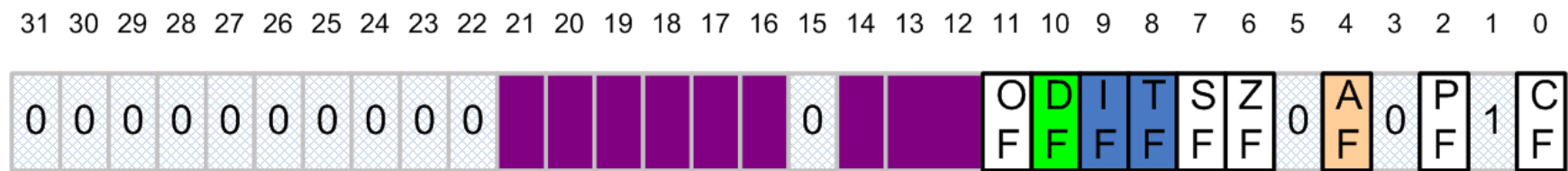




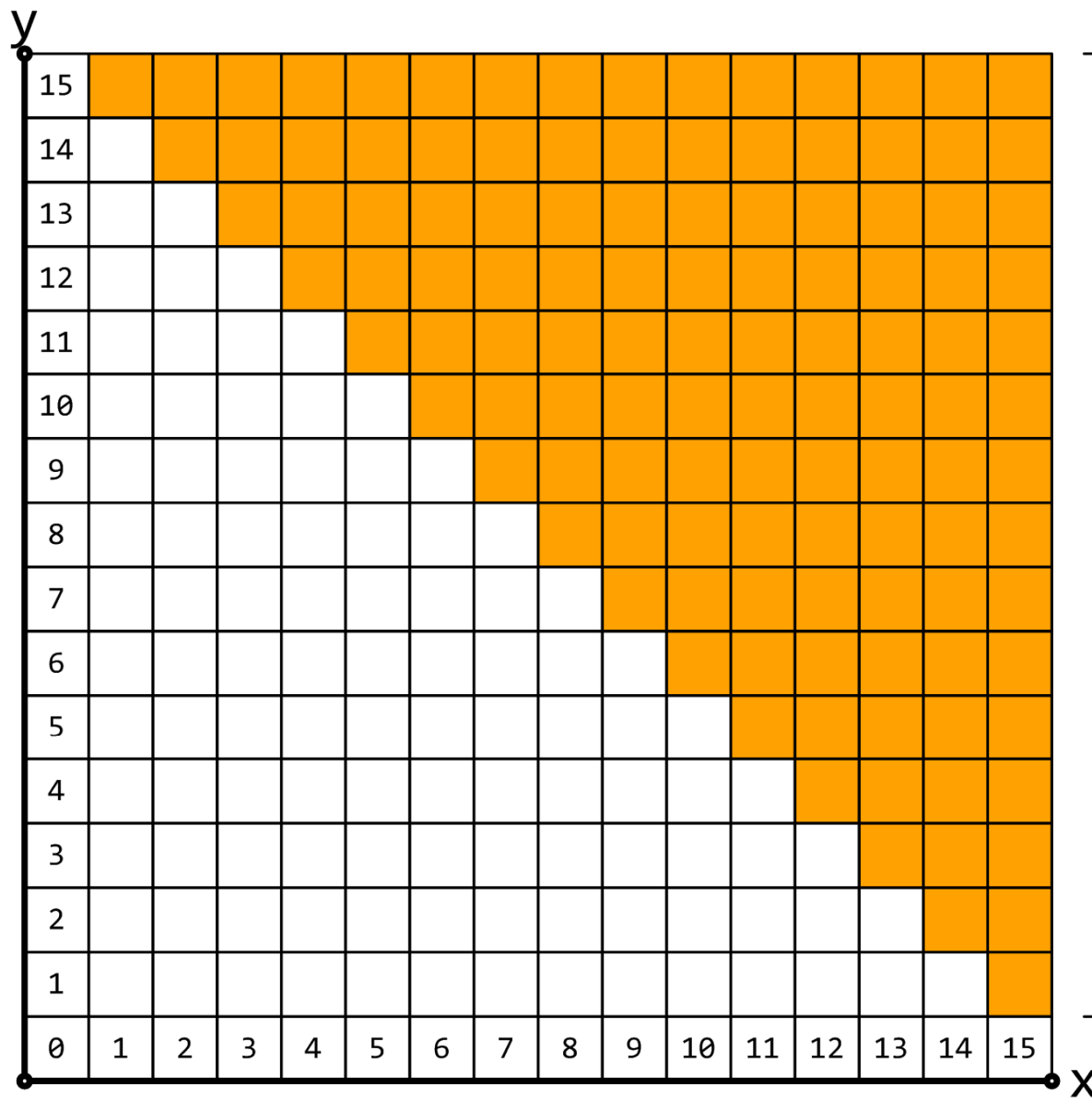








EFLAGS



Положительное  
переполнение



	OF	SF	ZF	PF	CF
ADD	M	M	M	M	M
SUB	M	M	M	M	M
ADC	M	M	M	M	TM
SBB	M	M	M	M	TM
IMUL	M	-	-	-	M
IDIV	-	-	-	-	-
NEG	M	M	M	M	M