#include<stdio.h>

int main()

{

int a;

int b=0;

for(a=1;a<5;a++){

b+=a;

}

printf("%d",b);

}

汇编代码如下:

.file "007.c"

.intel\_syntax

.def \_\_\_main; .scl 2; .type 32; .endef

.section .rdata,"dr"

LC0:

.ascii "%d\0"

.text

.align 2

.globl \_main

.def \_main; .scl 2; .type 32; .endef

\_main:

push ebp

mov ebp, esp

sub esp, 24

and esp, -16

mov eax, 0

add eax, 15

add eax, 15

shr eax, 4

sal eax, 4

mov DWORD PTR [ebp-12], eax

mov eax, DWORD PTR [ebp-12]

call \_\_alloca

call \_\_\_main

mov DWORD PTR [ebp-8], 0 ；将0给b

mov DWORD PTR [ebp-4], 1 ；将1给a

L2:

cmp DWORD PTR [ebp-4], 4 ；比较4与a的值

jg L3 ；小于等于0跳转到L3，若否，则进行下一步

mov eax, DWORD PTR [ebp-4] ；将a送入eax

lea edx, [ebp-8] ；将b传给edx

add DWORD PTR [edx], eax ；eax与edx相加

lea eax, [ebp-4] ；将a传给eax

inc DWORD PTR [eax] ；eax加1

jmp L2 ；跳转至L2

L3:

mov eax, DWORD PTR [ebp-8]

mov DWORD PTR [esp+4], eax

mov DWORD PTR [esp], OFFSET FLAT:LC0

call \_printf ；输出b

mov eax, 0

leave

ret

.def \_printf; .scl 2; .type 32; .endef