```
; Listing generated by Microsoft (R) Optimizing Compiler Version 16.00.40219.01
          C:\Users\Michael_Geiger\Documents\courses\16.317_micros_I\f12\misc\hll_assembly_test\
                                                                                                           K
    hll_assembly_test\testfile2.c
    .686P
    . XMM
    include listing.inc
    .model flat
INCLUDELIB MSVCRTD
INCLUDELIB OLDNAMES
DATA
       SEGMENT
       _a:DWORD
COMM
       _c:DWORD
COMM
        _b:DWORD
COMM
DATA ENDS
PUBLIC ?? C@ 0BI@HLEICADJ@a?5?$DN?5?$CFd?0?5b?5?$DN?5?$CFd?0?5c?5?$DN?5?$CFd?6?$AA@ ; `string'
PUBLIC ?? C@ 0800HKHLPO@?$CFd?5?$CFd?5?$CFd?$AA@ ; `string'
PUBLIC _main
       __imp__printf:PROC
EXTRN
EXTRN
       __imp__scanf:PROC
       __RTC_CheckEsp:PROC
EXTRN
       __RTC_Shutdown:PROC
EXTRN
EXTRN
         _RTC__InitBase:PROC
   COMDAT ??_C@_0BI@HLEICADJ@a?5?$DN?5?$CFd?0?5b?5?$DN?5?$CFd?0?5c?5?$DN?5?$CFd?6?$AA@
; File c:\users\michael_geiger\documents\courses\16.317_micros_i\f12\misc\hll_assembly_test\
   hll_assembly_test\testfile2.c
CONST SEGMENT
??_C@_0BI@HLEICADJ@a?5?$DN?5?$CFd?0?5b?5?$DN?5?$CFd?0?5c?5?$DN?5?$CFd?6?$AA@ DB 'a'
   DB ' = %d, b = %d, c = %d', 0aH, 00H
                                                ; `string'
CONST ENDS
 COMDAT ??_C@_0800HKHLPO@?$CFd?5?$CFd?5?$CFd?$AA@
CONST SEGMENT
??_C@_0800HKHLPO@?$CFd?5?$CFd?5?$CFd?$AA@ DB '%d %d %d', 00H ; `string'
CONST
       ENDS
  COMDAT rtc$TMZ
rtc$TMZ SEGMENT
 _RTC_Shutdown.rtc$TMZ DD FLAT:__RTC_Shutdown
rtc$TMZ ENDS
   COMDAT rtc$IMZ
rtc$IMZ SEGMENT
 _RTC_InitBase.rtc$IMZ DD FLAT:__RTC_InitBase
; Function compile flags: /Odtp /RTCsu /ZI
rtc$IMZ ENDS
  COMDAT _main
_TEXT
      SEGMENT
main PROC
                                    ; COMDAT
      : void main() {
; 5
    push
            ebp
    mov ebp, esp
    sub esp, 192
                                ; 000000c0H
    push
            ebx
            esi
    push
            edi
    push
    lea edi, DWORD PTR [ebp-192]
                               ; 00000030H
    mov ecx, 48
    mov eax, -858993460
                                    ; ccccccccH
    rep stosd
           scanf("%d %d %d", &a, &b, &c);
    mov esi, esp
         OFFSET _c
    push
```

```
OFFSET _b
   push
           OFFSET _a
OFFSET ??_C@_0800HKHLPO@?$CFd?5?$CFd?5?$CFd?$AA@
   push
   push
   call
           DWORD PTR __imp__scanf
   add esp, 16
                              ; 00000010H
   cmp esi, esp
   call __RTC_CheckEsp
; 7 :
           printf("a = %d, b = %d, c = %d\n", a, b, c);
   mov esi, esp
   mov eax, DWORD PTR \_c
         eax
   push
   mov ecx, DWORD PTR _b
   push ecx
   mov edx, DWORD PTR _a
   push edx
   push
           OFFSET ??_C@_0BI@HLEICADJ@a?5?$DN?5?$CFd?0?5b?5?$DN?5?$CFd?0?5c?5?$DN?5?$CFd?6?$AA@
   call DWORD PTR __imp__printf
                              ; 00000010H
   add esp, 16
   cmp esi, esp
   call __RTC_CheckEsp
; 8 : }
   xor eax, eax
   pop edi
   pop esi
   pop ebx
                             ; 000000c0H
   add esp, 192
   cmp ebp, esp
   call __RTC_CheckEsp
   mov esp, ebp
   pop ebp
   ret 0
_main ENDP
_TEXT ENDS
END
```