

1、

A screenshot of the DOSBox application window. The title bar reads "DOSBox 0.74, Cpu speed: 3000 cycles, Frameskip 0, Program: EDIT". The menu bar includes File, Edit, Search, View, Options, and Help. The status bar at the bottom shows "F1=Help", "Line:1", and "Col:1". The main window displays the assembly code for "C:\F1.ASM":

```
;-----C:\F1.ASM-----  
;data segment  
;name1 db 'HELLO WORLD', 0dh, 0ah, '$'  
;data ends  
;code segment  
;assume cs:code,ds:data  
;  
;begin:  
;    mov ax,data  
;    mov ds,ax  
;    lea dx,name1  
;    mov ah,9  
;    int 21h  
;    mov ah,4ch  
;    int 21h  
;code ends  
;    end begin  
;  
;  
;  
;  
;
```

```
DOSBox 0.74, Cpu speed: 3000 cycles, Frameskip 0, Program: DOSBOX
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Object filename [f1.OBJ]:
Source listing [NUL.LST]:
Cross-reference [NUL.CRF]:

51766 + 464778 Bytes symbol space free

@ Warning Errors
@ Severe Errors

C:\>link f1.obj

Microsoft (R) Overlay Linker Version 3.69
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Run File [F1.EXE]:
List File [NUL.MAP]:
Libraries [.LIB]:
LINK : warning L4021: no stack segment

C:\>f1.exe
HELLO WORLD

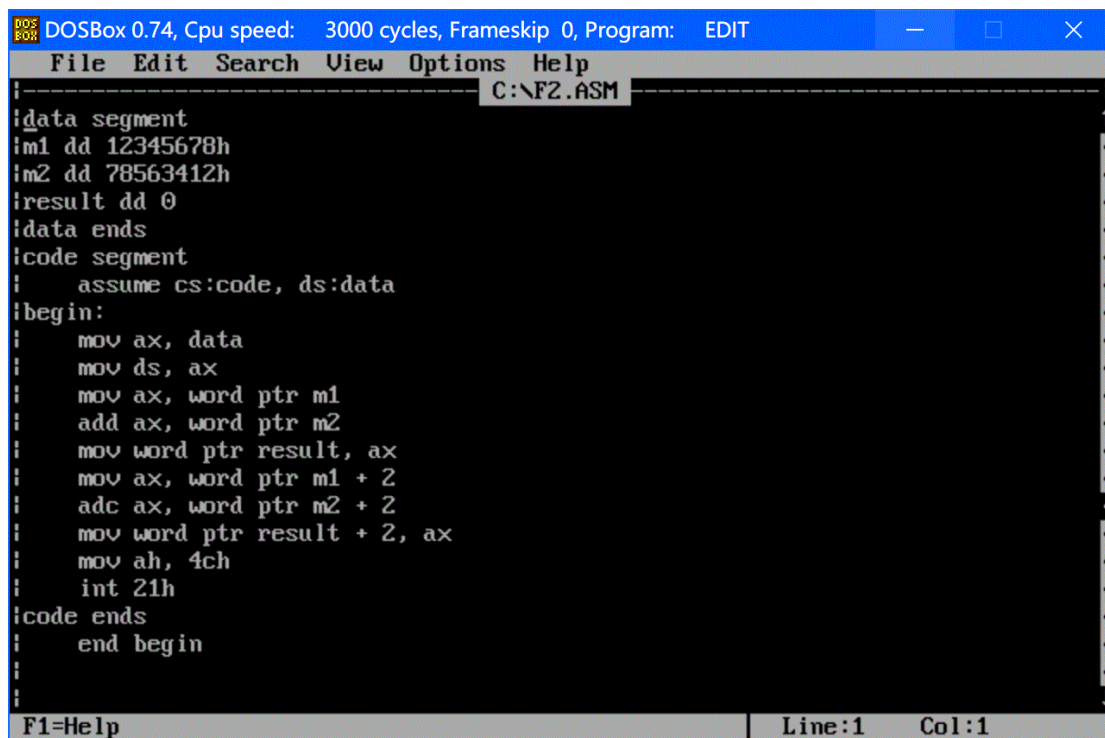
C:\>q
```

2、

```
DOS
BOX
DOSBox 0.74, Cpu speed: 3000 cycles, Frameskip 0, Program: DEBUG
-q
C:\>a
Illegal command: a.

C:\>debug
-a
06B0:0100 db 0, 1, 4, 9, 10
06B0:0105 mov ah, 1
06B0:0107 int 21
06B0:0109 sub al, 30
06B0:010B mov bx, 100
06B0:010E xlat
06B0:010F add al, 30
06B0:0111 mov dl, al
06B0:0113 mov ah, 2
06B0:0115 int 21
06B0:0117 int 3
06B0:0118
-g = 105
39Breakpoint interrupt
AX=0239 BX=0100 CX=0000 DX=0039 SP=FFFE BP=0000 SI=0000 DI=0000
DS=06B0 ES=06B0 SS=06B0 CS=06B0 IP=0118 NV UP EI PL NZ NA PE NC
06B0:0118 0000          ADD     [BX+SI],AL          DS:0100=00
-q
```

3、



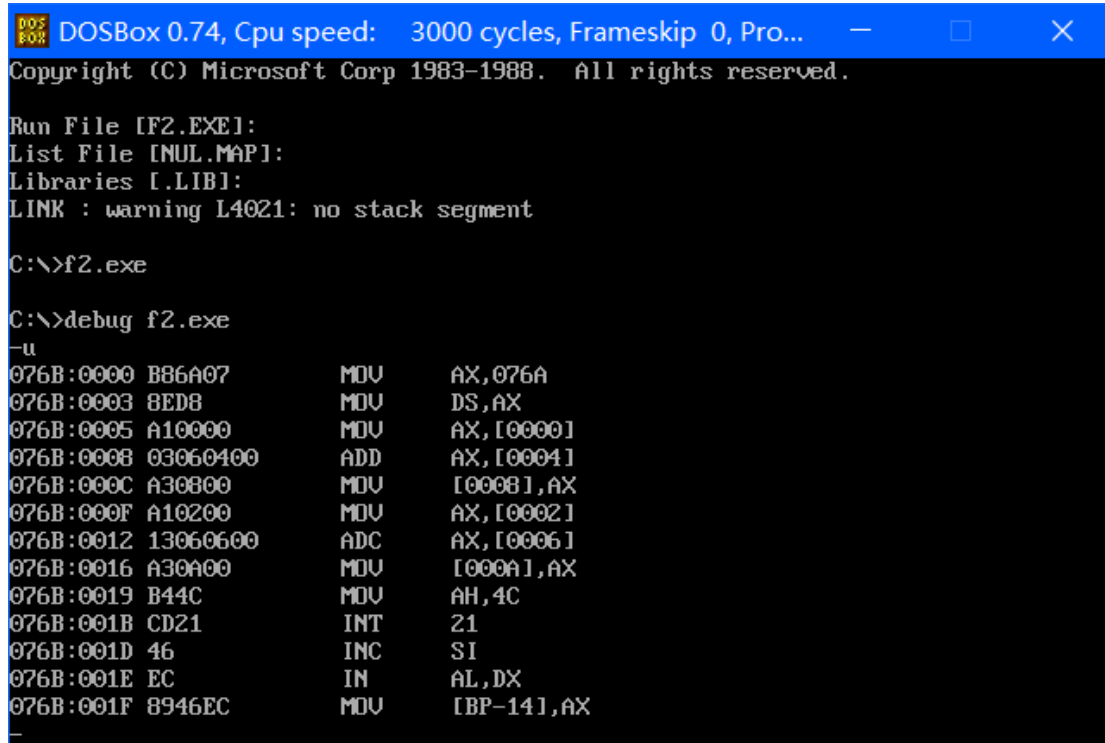
DOSBox 0.74, Cpu speed: 3000 cycles, Frameskip 0, Program: EDIT

File Edit Search View Options Help

C:\F2.ASM

```
data segment
im1 dd 12345678h
im2 dd 78563412h
result dd 0
data ends
code segment
    assume cs:code, ds:data
begin:
    mov ax, data
    mov ds, ax
    mov ax, word ptr m1
    add ax, word ptr m2
    mov word ptr result, ax
    mov ax, word ptr m1 + 2
    adc ax, word ptr m2 + 2
    mov word ptr result + 2, ax
    mov ah, 4ch
    int 21h
code ends
    end begin
```

F1=Help Line:1 Col:1



DOSBox 0.74, Cpu speed: 3000 cycles, Frameskip 0, Pro...

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Run File [F2.EXE]:

List File [NUL.MAP]:

Libraries [.LIB]:

LINK : warning L4021: no stack segment

C:\>f2.exe

C:\>debug f2.exe

-u

076B:0000	B86A07	MOV	AX,076A
076B:0003	8ED8	MOV	DS,AX
076B:0005	A10000	MOV	AX,[0000]
076B:0008	03060400	ADD	AX,[0004]
076B:000C	A30800	MOV	[0008],AX
076B:000F	A10200	MOV	AX,[0002]
076B:0012	13060600	ADC	AX,[0006]
076B:0016	A30A00	MOV	[000A],AX
076B:0019	B44C	MOV	AH,4C
076B:001B	CD21	INT	21
076B:001D	46	INC	SI
076B:001E	EC	IN	AL,DX
076B:001F	8946EC	MOV	[BP-14],AX

-