

17
model small
data
a db 10h, 20h, 30h, 40h, 50h
b db 11h, 22h, 33h, 44h, 55h

code

mov ax, @data

mov ds, ax

lea si, a

lea di, b

mov cx, 05h

l1: mov al, [si]

xchg al, [di]

mov [si], al

inc di

inc di

loop l1

mov cx, 4ch

int 21h

end

local				reg	
source1 CS:IP (ACTIVE)					
052A:0000	B82B05	MOV	AX,052B	AX	= 0000
052A:0003	8EDB	MOV	DS,AX	BX	= 0000
052A:0005	8D360C00	LEA	SI,Word Ptr [000C]	CX	= 0000
052A:0009	8D3E1100	LEA	DI,Word Ptr [0011]	DX	= 0000
052A:000D	B105	MOV	CL,05	SP	= 0000
052A:000F	8A04	MOV	AL,Byte Ptr [SI]	BP	= 0000
052A:0011	8605	XCHG	AL,Byte Ptr [DI]	SI	= 0000
052A:0013	47	INC	DI	DI	= 0000
052A:0014	46	INC	SI	DS	= 051A
052A:0015	E2F8	LOOP	000F	ES	= 051A
052A:0017	B44C	MOV	AH,4C	SS	= 0529
052A:0019	CD15	INT	15	CS	= 052A
052A:001B	0010	ADD	Byte Ptr [BX+SI],DL	IP	= 0000
052A:001D	2030	AND	Byte Ptr [BX+SI],DH	FL	= 0200
052A:001F	40	INC	AX		
052A:0020	50	PUSH	AX		

command			
CV1053 Warning: TOOLS.INI not found			
CV0101 Warning: No symbolic information for C:\MASM\change.EXE			
>			

<F8=Trace> <F10=Step> <F5=Go> <F6=Window> <F3=Display>

DOSBox 0.74, Cpu speed: max 100% cycles, Frameskip 0, Progra...

File Edit View Search Run Watch Options Calls Help

local

source1 CS:IP (ACTIVE)

052A:0000 B82B05 MOV AX,052B

052A:0003 8ED8 MOV DS,AX

052A:0005 8D360C00 LEA SI,Word Ptr [000C]

052A:0009 8D3E1100 LEA DI,Word Ptr [0011]

052A:000D B105 MOV CL,05

052A:000F 8A04 MOV AL,Byte Ptr [SI]

052A:0011 8605 XCHG AL,Byte Ptr [DI]

052A:0013 47 INC DI

052A:0014 46 INC SI

052A:0015 E2F8 LOOP 000F

052A:0017 B44C MOV AH,4C

052A:0019 CD15 INT 15

052A:001B 0010 ADD Byte Ptr [BX+SI],DL

052A:001D 2030 AND Byte Ptr [BX+SI],DH

052A:001F 40 INC AX

052A:0020 50 PUSH AX

command

051A:0000 CD 20 FF 9F 00 EA FF FF-AD DE 6C 02 CD 03 32 03

051A:0010 CD 03 4B 0A CD 03 FF 04-01 01 01 00 02 03 FF FF ..K..

>

reg

AX = 0000

BX = 0000

CX = 0000

DX = 0000

SP = 0000

BP = 0000

SI = 0000

DI = 0000

DS = 051A

ES = 051A

SS = 0529

CS = 052A

IP = 0000

FL = 0200

NU UP EI PL

NZ NA PO NC

<F8=Trace> <F10=Step> <F5=Go> <F6=Window> <F3=Display>

Scanned with CamScanner

AXX.asm

Padma

2. .model small
 .data

 .code

 mov ax, @data

 mov ds, ax

 mov al, 63h

 add al, 88h

 daa

 mov ah, 4ch

 int 21h

 end.

DOSBox 0.74, Cpu speed: max 100% cycles, Frameskip: 0, Program...

File Edit View Search Run Watch Options Calls Help

local

source1 CS:IP (ACTIVE)

052A:0000 B82A05

MOV

AX,052A

052A:0003 8ED8

MOV

DS,AX

052A:0005 B063

MOV

AL,63

052A:0007 0488

ADD

AL,88

052A:0009 27

DAA

052A:000A B44C

MOV

AH,4C

052A:000C CD21

INT

21

052A:000E B79A

MOV

BH,9A

052A:0010 B9FFFF

MOV

CX,FFFF

052A:0013 B85800

MOV

AX,0058

052A:0016 E8B902

CALL

02D2

052A:0019 8CDA

MOV

DX,DS

052A:001B E8AB02

CALL

02C9

052A:001E B792

MOV

BH,92

052A:0020 B9FFFF

MOV

CX,FFFF

052A:0023 B84800

MOV

AX,0048

reg

AX = 0000

BX = 0000

CX = 0000

DX = 0000

SP = 0000

BP = 0000

SI = 0000

DI = 0000

DS = 051A

ES = 051A

SS = 0529

CS = 052A

IP = 0000

FL = 0200

NU UP EI PL

NZ NA PO NC

command

CU1053 Warning: TOOLS.INI not found

CU0101 Warning: No symbolic information for C:\MASM\axx.EXE

>

<F8=Trace> <F10=Step> <F5=Go> <F6=Window> <F3=Display>

DOSBox 0.74, Cpu speed: max 100% cycles, Frameskip: 0, Program

File Edit View Search Run Watch Options Calls Help

local				reg
source1 CS:IP (ACTIVE)				
052A:0000	B82A05	MOV	AX,052A	AX = 0000
052A:0003	BED8	MOV	DS,AX	BX = 0000
052A:0005	B063	MOV	AL,63	CX = 0000
052A:0007	048B	ADD	AL,8B	DX = 0000
052A:0009	27	DAA		SP = 0000
052A:000A	B44C	MOV	AH,4C	BP = 0000
052A:000C	CD21	INT	21	SI = 0000
052A:000E	B79A	MOV	BH,9A	DI = 0000
052A:0010	B9FFFF	MOV	CX,FFFF	DS = 051A
052A:0013	B85B00	MOV	AX,005B	ES = 051A
052A:0016	EBB902	CALL	02D2	SS = 0529
052A:0019	BCDA	MOV	DX,DS	CS = 052A
052A:001B	EBAB02	CALL	02C9	IP = 0000
052A:001E	B792	MOV	BH,92	FL = 0200
052A:0020	B9FFFF	MOV	CX,FFFF	
052A:0023	B84B00	MOV	AX,004B	

command																	
051A:0000	CD	20	FF	9F	00	EA	FF	FF	AD	DE	6C	02	CD	03	32	03	...
051A:0010	CD	03	4B	0A	CD	03	FF	04	01	01	01	00	02	03	FF	FF	..K..

>

<F8=Trace> <F10=Step> <F5=Go> <F6=Window> <F3=Display>

(3.) • model small

• data

num1 db 00h, 03h, 42h, 98h

num2, db 07h, 57h, 13h, 64h

res db 4 dup (?)

• code

mov ax, @data

mov ds, ax

mov si, 03h

mov cl, 04h

cld

dec add: mov al, num1[si]

adc al, num2[si]

daa

mov res[si], al

```
dec si  
loop dec  
add  
mov ah, 4ch  
int 21  
end
```


DOSBox 0.74, Cpu speed: max 100% cycles, Frameskip 0, Progra...

File Edit View Search Run Watch Options Calls Help

local

source1 CS:IP (ACTIVE)

052A:0000 B82C05 MOV AX,052C

052A:0003 BED8 MOV DS,AX

052A:0005 BE0300 MOV SI,0003

052A:0008 B104 MOV CL,04

052A:000A FB CLC

052A:000B 8A840000 MOV AL,Byte Ptr [SI+0000]

052A:000F 12840400 ADC AL,Byte Ptr [SI+0004]

052A:0013 27 DAA

052A:0014 88B40800 MOV Byte Ptr [SI+0008],AL

052A:0018 4E DEC SI

052A:0019 E2F0 LOOP 000B

052A:001B B44C MOV AH,4C

052A:001D CD15 INT 15

052A:001F 0000 ADD Byte Ptr [BX+SI],AL

052A:0021 034298 ADD AX,Word Ptr [BP+SI-68]

052A:0024 07 POP ES

reg

AX = 0000

BX = 0000

CX = 0000

DX = 0000

SP = 0000

BP = 0000

SI = 0000

DI = 0000

DS = 051A

ES = 051A

SS = 0529

CS = 052A

IP = 0000

FL = 0200

NU UP EI PL

NZ NA PO NC

command

CU1053 Warning: TOOLS.INI not found

CU0101 Warning: No symbolic information for C:\MASM\deci.EXE

>

<F8=Trace> <F10=Step> <F5=Go> <F6=Window> <F3=Display>

DOSBox 0.74, Cpu speed: max 100% cycles, Frameskip 0, Progra...



File Edit View Search Run Watch Options Calls Help			
local			
source1 CS:IP (ACTIVE)			
052A:0000	B82C05	MOV	AX,052C
052A:0003	8ED8	MOV	DS,AX
052A:0005	BE0300	MOV	SI,0003
052A:0008	B104	MOV	CL,04
052A:000A	F8	CLC	
052A:000B	8A840000	MOV	AL,Byte Ptr [SI+0000]
052A:000F	12B40400	ADC	AL,Byte Ptr [SI+0004]
052A:0013	27	DAA	
052A:0014	88B40800	MOV	Byte Ptr [SI+0008],AL
052A:0018	4E	DEC	SI
052A:0019	E2F0	LOOP	000B
052A:001B	B44C	MOV	AH,4C
052A:001D	CD15	INT	15
052A:001F	0000	ADD	Byte Ptr [BX+SI],AL
052A:0021	034298	ADD	AX,Word Ptr [BP+SI-68]
052A:0024	07	POP	ES

command			
051A:0000	CD 20 FF 9F 00 EA FF FF-AD DE 6C 02 CD 03 32 03	...	
051A:0010	CD 03 4B 0A CD 03 FF 04-01 01 01 00 02 03 FF FF	..K..	
>			

reg			
AX	=	0000	
BX	=	0000	
CX	=	0000	
DX	=	0000	
SP	=	0000	
BP	=	0000	
SI	=	0000	
DI	=	0000	
DS	=	051A	
ES	=	051A	
SS	=	0529	
CS	=	052A	
IP	=	0000	
FL	=	0200	
NV	UP	EI	PL
NZ	NA	PO	NC

<F8=Trace> <F10=Step> <F5=Go> <F6=Window> <F3=Displau>