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SLOT : L29 + L30
DUE : 20-JAN-2020

```

C:\ADD_8B.ASM
DATA SEGMENT
    var1 db 85h
    var2 db 32h
    res db ?
DATA ENDS

ASSUME CS:CODE,DS:DATA

CODE SEGMENT
START:mov ax,data
      mov ds,ax

      mov al,var1
      mov bl,var2

      add al,bl

      mov res,al

      mov ah,4ch
      int 21h
CODE ENDS

```

File Edit View Search Run Watch Options Calls Help			
local			
source1 CS:IP (ACTIVE)			
052B:0000	B82A05	MOV	AX,052A
052B:0003	8ED8	MOV	DS,AX
052B:0005	A00000	MOV	AL,Byte Ptr [0000]
052B:0008	8A1E0100	MOV	BL,Byte Ptr [0001]
052B:000C	02C3	ADD	AL,BL
052B:000E	A20200	MOV	Byte Ptr [0002],AL
052B:0011	B44C	MOV	AH,4C
052B:0013	CD21	INT	21
052B:0015	00E8	ADD	AL,CH
052B:0017	A9028B	TEST	AX,8B02
052B:001A	16	PUSH	SS
052B:001B	E401	IN	AL,01
command			
CU1053 Warning: TOOLS.INI not found			
CU0101 Warning: No symbolic information for C:\add_8b.exe			
>			

reg	t
AX	= 4CB7
BX	= 0032
CX	= 0000
DX	= 0000
SP	= 0000
BP	= 0000
SI	= 0000
DI	= 0000
DS	= 052A
ES	= 051A
SS	= 0529
CS	= 052B
IP	= 0015
FL	= 0286
NU	UP EI NG
NZ	NA PE NC

```

C:\ADD_16B.ASM
DATA SEGMENT
    var1 dw 8560h
    var2 dw 3297h
    res dw ?
DATA ENDS

ASSUME CS:CODE,DS:DATA

CODE SEGMENT
START:mov ax,data
      mov ds,ax

      mov ax,var1
      mov bx,var2

      add ax,bx
      mov res,ax

      mov ah,4ch
      int 21h
CODE ENDS
END START
F1=Help | Line:1 Col:1

```

source1 CS:IP (ACTIVE)				AX = 4CF7 BX = 3297 CX = 0000 DX = 0000 SP = 0000 BP = 0000 SI = 0000 DI = 0000 DS = 052A ES = 051A SS = 0529 CS = 052B IP = 0015 FL = 0282			
052B:0000	B82A05	MOV	AX,052A				
052B:0003	8ED8	MOV	DS,AX				
052B:0005	A10000	MOV	AX,Word Ptr [0000]				
052B:0008	8B1E0200	MOV	BX,Word Ptr [0002]				
052B:000C	03C3	ADD	AX,BX				
052B:000E	A30400	MOV	Word Ptr [0004],AX				
052B:0011	B44C	MOV	AH,4C				
052B:0013	CD21	INT	21				
052B:0015	00EB	ADD	AL,CH				
052B:0017	A9028B	TEST	AX,8B02				
052B:001A	16	PUSH	SS				
052B:001B	E401	IN	AL,01				

command		NU UP EI NG NZ NA PO NC			
CU1053	Warning: TOOLS.INI not found				
CU0101	Warning: No symbolic information for C:\ADD_16B.EXE				
>					

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

```

C:\SUB_BB.ASM

.model small
.data
    num1 db 9fh
    num2 db 45h
    res db ?
.code
    mov ax,@data
    mov ds,ax

    mov al,num1
    mov bl,num2

    sub al,bl

    mov res,al

    mov ah,4ch
    int 21h
end

```

F1=Help Line:1 Col:1

local				reg	
				AX	= 4C5A
				BX	= 0045
				CX	= 0000
				DX	= 0000
				SP	= 0000
				BP	= 0000
				SI	= 0000
				DI	= 0000
				DS	= 052B
				ES	= 051A
				SS	= 0529
				CS	= 052A
				IP	= 0015
				FL	= 0A06
				OV	UP
				NZ	NA
				PE	NC
				DS	= 5A8A
					3D

source1 CS:IP (ACTIVE)			
052A:0000	B82B05	MOV	AX,052B
052A:0003	8ED8	MOV	DS,AX
052A:0005	A00600	MOV	AL,Byte Ptr [0006]
052A:0008	8A1E0700	MOV	BL,Byte Ptr [0007]
052A:000C	2AC3	SUB	AL,BL
052A:000E	A20800	MOV	Byte Ptr [0008],AL
052A:0011	B44C	MOV	AH,4C
052A:0013	CD21	INT	21
052A:0015	009F455A	ADD	Byte Ptr [BX+5A45],BL
052A:0019	8CDA	MOV	DX,DS
052A:001B	E8AB02	CALL	02C9
052A:001E	B792	MOV	BH,92

command	
CU1053	Warning: TOOLS.INI not found
CU0101	Warning: No symbolic information for C:\SUB_BB.EXE
>	
>	

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

```

C:\MULTIPLY.ASM
DATA SEGMENT
    var1 db 9dh
    var2 db 99h
    res dw ?
DATA ENDS

ASSUME CS:CODE,DS:DATA

CODE SEGMENT
    START:
        mov ax,data
        mov ds,ax

        mov al,var1
        mov bl,var2
        mul bl

        mov res,ax
        mov ah,4ch
        int 21h
CODE ENDS
END START
F1=Help | Line:1 Col:1

```

local		reg	
		AX =	5DD5
		BX =	0099
		CX =	0000
		DX =	0000
		SP =	0000
		BP =	0000
		SI =	0000
		DI =	0000
		DS =	052A
		ES =	051A
		SS =	0529
		CS =	052B
		IP =	000E
		FL =	0A03
source1 CS:IP (ACTIVE)			
052B:0000	B82A05	MOV	AX,052A
052B:0003	8ED8	MOV	DS,AX
052B:0005	A00000	MOV	AL,Byte Ptr [0000]
052B:0008	8A1E0100	MOV	BL,Byte Ptr [0001]
052B:000C	F6E3	MUL	BL
052B:000E	A30200	MOV	Word Ptr [0002],AX
052B:0011	B44C	MOV	AH,4C
052B:0013	CD21	INT	21
052B:0015	00E8	ADD	AL,CH
052B:0017	A9028B	TEST	AX,8B02
memory1 byte DS:0000 (ACTIVE)			
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...	
051A:0020	FF FF FF FF FF FF FF FF FF FF FF 10 05 72 22	
command			
CV1053 Warning: TOOLS.INI not found		DS:0002	
CV0101 Warning: No symbolic information for C:\multiply_8b.exe		0000	
>			

```

C:\N\DIVIDE_1.ASM
DATA SEGMENT
    var1 dw 6827h
    var2 db 0feh
    quo db ?
    rem db ?
DATA ENDS

ASSUME CS:CODE,DS:DATA
CODE SEGMENT
    START:
        mov ax,data
        mov ds,ax

        mov ax,var1
        div var2

        mov quo,al
        mov rem,ah

        mov ah,4ch
        int 21h
CODE ENDS

```

local				reg	
				AX	= F768
				BX	= 0000
				CX	= 0000
				DX	= 0000
				SP	= 0000
				BP	= 0000
				SI	= 0000
				DI	= 0000
				DS	= 052A
				ES	= 051A
				SS	= 0529
				CS	= 052B
				IP	= 000F
				FL	= 0202
source1 CS:IP (ACTIVE)					
052B:0000	B82A05	MOV	AX,052A		
052B:0003	8ED8	MOV	DS,AX		
052B:0005	A10000	MOV	AX,Word Ptr [0000]		
052B:0008	F6360200	DIV	Byte Ptr [0002]		
052B:000C	A20300	MOV	Byte Ptr [0003],AL		
052B:000F	88260400	MOV	Byte Ptr [0004],AH		
052B:0013	B44C	MOV	AH,4C		
052B:0015	CD21	INT	21		
052B:0017	A9028B	TEST	AX,8B02		
052B:001A	16	PUSH	SS		
memory1 byte DS:0000 (ACTIVE)					
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...		NU UP EI PL	
051A:0020	FF FF FF FF FF FF FF FF FF FF FF FF 10 05 72 22		NZ NA PO NC	
command					
CU1053 Warning: TOOLS.INI not found				DS:0004	
CU0101 Warning: No symbolic information for C:\n\divide_16b.exe				00	
>					
<F8=Trace> <F10=Step> <F5=Go> <F6=Window> <F3=Display>					