File   Edit   Search   View   Options   Help

C:\MASM\AAA.ASM

```
.model small
.data
d1 db 30h
d2 db 25h
diff db ?

.code
mov ax,@data
mov ds,ax
mov bl,d1
sub bl,d2
mov diff,bl
mov ah,4ch
int 21h
end
```

F1=Help   Line:1   Col:1

```
DOSBox 0.74, Cpu speed: max 100% cycles, Frameskip  0, Progra...      —     □     ✕

 File   Edit   View   Search   Run   Watch   Options   Calls                    Help
┌─┬───────────────────────────local────────────────────────────┬─┐  ┌─┬─reg─┬─┐
│ │ •                  source1 CS:IP (ACTIVE)                   │↑│  │ │AX = 0000│
│ •                                                            │↑│  │ │AX = 0000│
│052A:0000 B82B05           MOV           AX,052B              │   │ │BX = 0000│
│052A:0003 8ED8             MOV           DS,AX                │   │ │CX = 0000│
│052A:0005 8A1E0600         MOV           BL,Byte Ptr [0006]   │   │ │DX = 0000│
│052A:0009 2A1E0700         SUB           BL,Byte Ptr [0007]   │   │ │SP = 0000│
│052A:000D 881E0800         MOV           Byte Ptr [0008],BL   │   │ │BP = 0000│
│052A:0011 B44C             MOV           AH,4C                │   │ │SI = 0000│
│052A:0013 CD21             INT           21                   │   │ │DI = 0000│
│052A:0015 0030             ADD           Byte Ptr [BX+SI],DH  │   │ │DS = 051A│
│052A:0017 25008C           AND           AX,8C00              │   │ │ES = 051A│
│052A:001A DAE8             ???           █                    │   │ │SS = 0529│
│052A:001C AB               STOSW                              │   │ │CS = 052A│
│052A:001D 02B792B9         ADD           DH,Byte Ptr [BX-466E]│   │ │IP = 0000│
│052A:0021 FFFF             ???           DI                   │   │ │FL = 0200│
│052A:0023 B84800           MOV           AX,0048              │   │ │          │
│052A:0026 E8A902           CALL          02D2                 │   │ │NV UP EI PL│
│052A:0029 8B16E401         MOV           DX,Word Ptr [01E4]   │   │ │NZ NA PO NC│
├─┬─────────────────────────command───────────────────────────┴─┤
│ │CV1053 Warning:   TOOLS.INI not found                        │↑│
│CV0101 Warning:   No symbolic information for C:\MASM\aaa.EXE   │
│>                                                               │
│←                                                              →↓│
 <F8=Trace> <F10=Step> <F5=Go> <F6=Window> <F3=Display>
```

Scanned with CamScanner

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)                    AX = 0000
052A:0000 B82B05      MOV        AX,052B                    BX = 0000
052A:0003 8ED8        MOV        DS,AX                      CX = 0000
052A:0005 8A1E0600    MOV        BL,Byte Ptr [0006]         DX = 0000
052A:0009 2A1E0700    SUB        BL,Byte Ptr [0007]         SP = 0000
052A:000D 881E0800    MOV        Byte Ptr [0008],BL         BP = 0000
052A:0011 B44C        MOV        AH,4C                      SI = 0000
052A:0013 CD21        INT        21                         DI = 0000
052A:0015 0030        ADD        Byte Ptr [BX+SI],DH        DS = 051A
052A:0017 25008C      AND        AX,8C00                    ES = 051A
052A:001A DAE8        ???                                   SS = 0529
052A:001C AB          STOSW                                 CS = 052A
052A:001D 02B792B9    ADD        DH,Byte Ptr [BX-466E]      IP = 0000
052A:0021 FFFF        ???        DI                         FL = 0200
052A:0023 B84800      MOV        AX,0048
052A:0026 E8A902      CALL       02D2                       NV UP EI PL
052A:0029 8B16E401    MOV        DX,Word Ptr [01E4]         NZ NA PO NC
                           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>

```
.model small
.data
a db 10h
b db 15h
c dw ?

.code
mov ax,@data
mov ds,ax
mov ax,a
mov bl,b
mul bl
mov c,ax
mov ah,4ch
int 21h
end
```

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 A10600        MOV        AX,Word Ptr [0006]
052A:0008 8A1E0700      MOV        BL,Byte Ptr [0007]
052A:000C F6E3          MUL        BL
052A:000E A30800        MOV        Word Ptr [0008],AX
052A:0011 B44C          MOV        AH,4C
052A:0013 CD21          INT        21
052A:0015 0010          ADD        Byte Ptr [BX+SI],DL
052A:0017 150000        ADC        AX,0000
052A:001A DAE8          ???
052A:001C AB            STOSW
052A:001D 02B792B9      ADD        DH,Byte Ptr [BX-466E]
052A:0021 FFFF          ???        DI
052A:0023 B84800        MOV        AX,0048
052A:0026 E8A902        CALL       02D2
```

```
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
```

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

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

File   Edit   View   Search   Run   Watch   Options   Calls   Help

```
┌────────────────────────────local────────────────────────────────┐  ┌─reg─┐
│                      source1 CS:IP (ACTIVE)                       │  │ AX = 0000
│052A:0000 B82B05       MOV       AX,052B                           │  │ BX = 0000
│052A:0003 8EDB         MOV       DS,AX                             │  │ CX = 0000
│052A:0005 A10600       MOV       AX,Word Ptr [0006]                │  │ DX = 0000
│052A:0008 8A1E0700     MOV       BL,Byte Ptr [0007]                │  │ SP = 0000
│052A:000C F6E3         MUL       BL                                │  │ BP = 0000
│052A:000E A30800       MOV       Word Ptr [0008],AX                │  │ SI = 0000
│052A:0011 B44C         MOV       AH,4C                             │  │ DI = 0000
│052A:0013 CD21         INT       21                                │  │ DS = 051A
│052A:0015 0010         ADD       Byte Ptr [BX+SI],DL               │  │ ES = 051A
│052A:0017 150000       ADC       AX,0000                           │  │ SS = 0529
│052A:001A DAE8         ???                                         │  │ CS = 052A
│052A:001C AB           STOSW                                       │  │ IP = 0000
│052A:001D 02B792B9     ADD       DH,Byte Ptr [BX-466E]             │  │ FL = 0200
│052A:0021 FFFF         ???       DI                                │  │
│052A:0023 B84800       MOV       AX,0048                           │  │ NV UP EI PL
│052A:0026 E8A902       CALL      02D2                              │  │ NZ NA PO NC
├────────────────────────────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>

```
.model small
.data
 a dw 1100h
 z dw 2100h
 b dw 15h
 quo db ?
 rem db ?

.code
mov ax,@data
mov ds,ax
mov ax,a
mov dx,z
mov bx,b
div bx
mov quo,al
mov rem,ah
mov ah,4ch
int 21h
end
```

```
File   Edit   View   Search   Run   Watch   Options   Calls                    Help
```

```
┌──────────────────────────local───────────────────────────┐   ┌─reg─┐
│──────────────────source1 CS:IP (ACTIVE)──────────────────│   │ AX = 0000│
│052A:0000 B82B05        MOV       AX,052B                  │   │ BX = 0000│
│052A:0003 8EDB          MOV       DS,AX                    │   │ CX = 0000│
│052A:0005 A10E00        MOV       AX,Word Ptr [000E]       │   │ DX = 0000│
│052A:0008 8B161000      MOV       DX,Word Ptr [0010]       │   │ SP = 0000│
│052A:000C 8B1E1200      MOV       BX,Word Ptr [0012]       │   │ BP = 0000│
│052A:0010 F7F3          DIV       BX                       │   │ SI = 0000│
│052A:0012 A21400        MOV       Byte Ptr [0014],AL       │   │ DI = 0000│
│052A:0015 88261500      MOV       Byte Ptr [0015],AH       │   │ DS = 051A│
│052A:0019 B44C          MOV       AH,4C                    │   │ ES = 051A│
│052A:001B CD21          INT       21                       │   │ SS = 0529│
│052A:001D 0000          ADD       Byte Ptr [BX+SI],AL      │   │ CS = 052A│
│052A:001F 1100          ADC       Word Ptr [BX+SI],AX      │   │ IP = 0000│
│052A:0021 2115          AND       Word Ptr [DI],DX         │   │ FL = 0200│
│052A:0023 0000          ADD       Byte Ptr [BX+SI],AL      │   │          │
│052A:0025 00E8          ADD       AL,CH                    │   │NV UP EI PL│
│052A:0027 A9028B        TEST      AX,8B02                  │   │NZ NA PO NC│
└──────────────────────────command─────────────────────────┘
CV1053 Warning:   TOOLS.INI not found
CV0101 Warning:   No symbolic information for C:\MASM\dev.EXE
>
```

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

File   Edit   View   Search   Run   Watch   Options   Calls   Help

```
────────────────────────────local────────────────────────────
──────────────────source1 CS:IP (ACTIVE)──────────────────        AX = 0000
052A:0000 B82B05        MOV        AX,052B                         BX = 0000
052A:0003 8EDB          MOV        DS,AX                           CX = 0000
052A:0005 A10E00        MOV        AX,Word Ptr [000E]              DX = 0000
052A:0008 8B161000      MOV        DX,Word Ptr [0010]              SP = 0000
052A:000C 8B1E1200      MOV        BX,Word Ptr [0012]              BP = 0000
052A:0010 F7F3          DIV        BX                              SI = 0000
052A:0012 A21400        MOV        Byte Ptr [0014],AL              DI = 0000
052A:0015 88261500      MOV        Byte Ptr [0015],AH              DS = 051A
052A:0019 B44C          MOV        AH,4C                           ES = 051A
052A:001B CD21          INT        21                              SS = 0529
052A:001D 0000          ADD        Byte Ptr [BX+SI],AL             CS = 052A
052A:001F 1100          ADC        Word Ptr [BX+SI],AX             IP = 0000
052A:0021 2115          AND        Word Ptr [DI],DX                FL = 0200
052A:0023 0000          ADD        Byte Ptr [BX+SI],AL
052A:0025 00E8          ADD        AL,CH                           NV UP EI PL
052A:0027 A9028B        TEST       AX,8B02                         NZ NA PO NC
──────────────────────────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>