HELLO WORLD

传统方式：

代码


```
HELLO.asm > ...
1    .model small
2    .data
3        Hello DB 'Hello world!',0dh,0ah,'$'
4    .code
5        START:MOV AX,@DATA
6              MOV DS,AX
7              MOV DX,offset Hello
8              MOV AH,9
9              INT 21h
10             MOV AX,4C00H
11             INT 21h
12   END    START
```
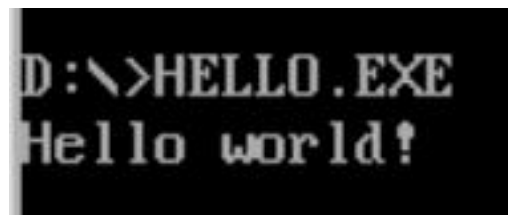
实验结果


```
D:\>HELLO.EXE
Hello world!
```

debug 后反汇编结果

```
D:\>debug HELLO.EXE
-u
076A:0000 B86B07        MOV     AX,076B
076A:0003 8ED8          MOV     DS,AX
076A:0005 BA0200        MOV     DX,0002
076A:0008 B409          MOV     AH,09
076A:000A CD21          INT     21
076A:000C B8004C        MOV     AX,4C00
076A:000F CD21          INT     21
076A:0011 004865        ADD     [BX+SI+65],CL
076A:0014 6C            DB      6C
076A:0015 6C            DB      6C
076A:0016 6F            DB      6F
076A:0017 20776F        AND     [BX+6F],DH
076A:001A 726C          JB      0088
076A:001C 64            DB      64
076A:001D 210D          AND     [DI],CX
076A:001F 0A24          OR      AH,[SI]
```

另类方式：

直接将代码和数据使用 debug -e 的方式运行

```
D:\>DEBUG
-E 076A: 0
076A:0000    B8.48    6B.65    07.6C    8E.6C    D8.6F    BA.24

-E 076B: 0
076B:0000    21.B8    00.6B    48.07    65.BE    6C.0A    6C.00    6F.B4    20.09
076B:0008    77.CD    6F.21

-R
AX=0000  BX=0000  CX=0000  DX=0000  SP=00FD  BP=0000  SI=0000  DI=0000
DS=073F  ES=073F  SS=073F  CS=073F  IP=0100   NV UP EI PL NZ NA PO NC
073F:0100 5A              POP     DX
-R CS
CS 073F
:076B
-R
AX=0000  BX=0000  CX=0000  DX=0000  SP=00FD  BP=0000  SI=0000  DI=0000
DS=073F  ES=073F  SS=073F  CS=076B  IP=0100   NV UP EI PL NZ NA PO NC
076B:0100 0000            ADD     [BX+SI],AL                      DS:0000=CD
```

```
DS=073F  ES=073F  SS=073F  CS=073F  IP=0100   NV UP EI PL NZ NA PO NC
073F:0100 5A              POP     DX
-R CS
CS 073F
:076B
-R
AX=0000  BX=0000  CX=0000  DX=0000  SP=00FD  BP=0000  SI=0000  DI=0000
DS=073F  ES=073F  SS=073F  CS=076B  IP=0100   NV UP EI PL NZ NA PO NC
076B:0100 0000              ADD     [BX+SI],AL                      DS:0000=CD
-R DS
DS 073F
:076A
-R
AX=0000  BX=0000  CX=0000  DX=0000  SP=00FD  BP=0000  SI=0000  DI=0000
DS=076A  ES=073F  SS=073F  CS=076B  IP=0100   NV UP EI PL NZ NA PO NC
076B:0100 0000              ADD     [BX+SI],AL                      DS:0000=48
-R IP
IP 0100
:0
-R
AX=0000  BX=0000  CX=0000  DX=0000  SP=00FD  BP=0000  SI=0000  DI=0000
DS=076A  ES=073F  SS=073F  CS=076B  IP=0000   NV UP EI PL NZ NA PO NC
076B:0000 B86B07            MOV     AX,076B
-G
Hello_
```