

BCD

```

BCD          SBCD1          SBCD2          BCD          5

STACK  SEGMENT PARA  STACK  'STACK'
        DB  200 DUP(?)
STACK  ENDS
DATA   SEGMENT
SBCD1  DB  5, 6, 9, 2;2965
SBCD2  DB  2, 3, 7, 8;8732
SSUM   DB  5    DUP(0);      2965+8732=11697
CONT   DB  4
DATA   ENDS
CODE   SEGMENT
        ASSUME  CS:CODE, DS:DATA, SS:STACK, ES:DATA
SBCDAD: MOV AX, DATA
        MOV DS, AX
        MOV ES, AX
        CLC
        CLD;DF=0  LODSB  LODSB SI  1
        MOV SI, OFFSET SBCD1
        MOV DI, OFFSET SBCD2
        MOV BX, OFFSET SSUM
        MOV CL, CONT
        MOV CH, 0
        MOV AX, 0;AX
SBCDAD1:LODSB; [SI]  AL  SI++ DF=0
        ADC AL, [DI]
        AAA;  BCD
        INC DI
        MOV BYTE PTR[BX], AL
        INC BX
        LOOP SBCDAD1
        MOV BYTE PTR[BX], AL;  SSUM
        MOV AH, 4CH
        INT 21H

```

```
CODE      ENDS
          END SBCDAD
```

DEBUG

- : __u 0 29

```
-u0 29
0778:0000 B87707      MOV     AX,0777
0778:0003 8ED8        MOV     DS,AX
0778:0005 8EC0        MOV     ES,AX
0778:0007 F8          CLC
0778:0008 FC          CLD
0778:0009 BE0000      MOV     SI,0000
0778:000C BF0400      MOV     DI,0004
0778:000F BB0800      MOV     BX,0008
0778:0012 BA0E0D00    MOV     CL,[000D]
0778:0016 B500        MOV     CH,00
0778:0018 B80000      MOV     AX,0000
0778:001B AC          LODSB
0778:001C 1205        ADC     AL,[DI]
0778:001E 37          AAA
0778:001F 47          INC     DI
0778:0020 8807        MOV     [BX],AL
0778:0022 43          INC     BX
0778:0023 E2F6        LOOP    001B
0778:0025 8807        MOV     [BX],AL
0778:0027 B44C        MOV     AH,4C
0778:0029 CD21        INT     21
_
```

Figure 1:

```
0777, SSUM      0008
```

- : __g=0 27 MOV AH,4C
- : __d 0777:0

```

-----
-g=0 27

AX=0201 BX=000C CX=0000 DX=0000 SP=00C8 BP=0000 SI=0004 DI=0008
DS=0777 ES=0777 SS=076A CS=0778 IP=0027 NU UP EI PL NZ NA PE CY
0778:0027 B44C          MOV     AH,4C
-
```

Figure 2:

```

-d 0777:0
0777:0000 05 06 09 02 02 03 07 08-07 09 06 01 01 04 00 00 .....
0777:0010 B8 77 07 8E D8 8E C0 F8-FC BE 00 00 BF 04 00 BB .w.....
0777:0020 08 00 8A 0E 0D 00 B5 00-B8 00 00 AC 12 05 37 47 .....7G
0777:0030 88 07 43 E2 F6 88 07 B4-4C CD 21 C0 50 8D 86 7D ..C.....L!.P..}
0777:0040 FF 50 E8 89 69 83 C4 04-0B C0 75 8C B8 FF FF 50 .P..i.....u....P
0777:0050 B8 05 00 50 8D 86 7C FF-50 E8 94 12 83 C4 06 8B ...P..!P.....
0777:0060 5E 04 D1 E3 D1 E3 A1 3A-21 8B 16 3C 21 89 87 BE ^.....:!.<?...
0777:0070 22 89 97 C0 22 5E 8B E5-5D C3 55 8B EC 81 EC 86 "..."^...l.U.....
-
```

0777:0000 SSUM 0008, 9 13 11697()