

3.4 (1) 1234H + 5678H = 68ACH
689CH - 5678H = 1234H OF=0 CF=0
PF=0 OF=0 CF=0 转移到N4

(2) 8765H + 7654H = FDB9H
FDB9 - 7654H = 8756H OF=0 CF=0
PF=1 转移到N3

(3) 4325H + 8761H = CA86H
CA86H - 8761H = 4325H OF=0 CF=0
PF=0 OF=0 转移到N4

(4) 4321H + 7762H = BA83H OF=1 转移到N1

(5) 5678H + 1234H = 68ACH
68ACH - 1234H = 5678H OF=0 CF=0
PF=1 转移到N3

3.5 (1) AX=1 (3) AX=5 (5) AX=C76AH

3.6 (8) TEST AL 80H
JS N1
JP N2
JNP N3
N1: TEST AL 7FH
JP N2
N3: AND AL 7HH
EXIT: HLT
N2 OR AL 80H

测试最高位
SF=1 最高位为1
PF=1 低7位有偶数个1
PF=0 低7位有奇数个0
测试低7位
PF=1 低7位有偶数个1
最高位置0
最高位置1

(9) MOV CL 4
ROL AL CL

(10) MOV DS 1000H
MOV DI 0
N1: INC DI 1
MOV CX DX
AND CL FFH
NOT CL
JNZ N1

MOV CX 00FF
AGAIN
MOV [DI], 0
LOOP AGAIN

(11) PUSH AX
PUSH BX
POP BX
POP AX

3.8 IP= 0087H

3.9 (1)
(1) 采用移位指令:
XOR AH, AH reg, reg 3T
SHL AX, 1 count=1 2T
MOV BX, AX reg, reg 2T
SHL AX, 1 count=1 2T
SHL AX, 1 count=1 2T
ADD AX, BX reg, reg 3T
共15T

(2) 采用乘法指令:
MOV BL, 10 reg, data 4T
MUL BL reg(8bit) 70→77T
共74~81T
移位指令更快