SYMBOL	TABLE
LABEL	ADDRESS
PM1	0100000
PM2	0100001
PM3	0100010
X	0101000
PM4	0100011
j Y j	0101001
j CNT j	0100110
j ZERO j	0100100
SUM	0100111
LOOP I	0001100
OUT	0011110
ONE I	0100101
j ADJ j	0011001

SECOND PASS:
-----MACHINE CODE-----

| 011110100000 |

| 000000000000 | | 0000000000000 |

111110000000

000000011001

000000100101

000000000001

000000000010

000000000000

000000000001

000000000000

000000000000

Assembly File

.st OTC PM1 OTC PM2 OTC PM3 INI X OTC PM1 OTC PM2 OTC PM4 INI Y PSH X POP CNT PSH ZERO POP SUM LOOP PSH Y PSH CNT SUB JEQ OUT PSH CNT PSH ONE ANDTSS JMP ADJ PSH SUM PSH CNT ADDPOP SUM ADJ PSH CNT PSH ONE ADD POP CNT JMP LOOP OUT OTI SUM HLT PM1 .dc 031 PM2 .dc 045 .dc 001 PM3 PM4 .dc 002 .dw 0 **ZERO** ONE .dw 1 CNT .dw 0 SUM .dw 0 Χ .dw 0 .dw 0

.nd

SYMBOL TABLE LABEL ADDRESS X 0000101	UNDEFINED TABLE
SECOND PASS:MACHINE CODE 01111UUUUUUU 01111UUUUUUU 01111UUUUUUU 01111UUUUUUU 01111UUUUUUU 01111UUUUUUU	Assembly File .st OTC PM1 OTC PM2 OTC PM3 OTC PM1 OTC PM1 A .dw 1 .nd

```
-----MACHINE CODE-----
                                               Assembly File:
| 011110000000
                                                        .st
| 011110000000 |
                                                       OTC PM1
                                                       OTC PM2
OTC PM3
OTC PM1
OTC X
011110000000
| 01111UUUUUUU |
| MMMMMMMMMM |
| MMMMMMMMMM |
| MMMMMMMMMM |
                                                LOOP PSH T
| MMMMMMMMMM |
                                                       X .dw 1
i MMMMMMMMMM i
                                                LOOP PSH T
000000000001
                                                       X .dw 1
                                                       T .dw 1
                                                       .nd
```