8255 TEST PORT PROGRAM

FOR THE
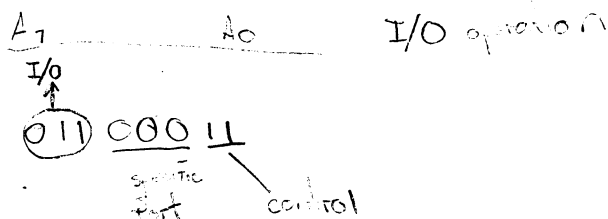
MASTER CONTROL BOARD

AND THE

MASTER I/O BOARD

Written by: M. SIMON: SPACE-TIME PRODUCTIONS

This program initializes the 8255 ports, reads the switches
and outputs the switch value to the LED ports. This is the
program supplied with the MCB.

```
0000    3E        MVIA LOA,N    ;Initialize the 8255 ports

0001    8B   1000101            ;Port A - out, Port B - in, Port C - in

0002    D3        OUTN,A        ;Sent init to control port

0003    63   011                ;

0004    DB        IN            ;Get switch value

0005    61                      ;Port B

0006    D3        OUT           ;Output switch value to LED

0007    60                      ;Port A

0008    C3        JMP           ;Go back and do it again

0009    04

000A    00
```

```
                    8255 TEST PORT PROGRAM

                          FOR THE

                    MASTER CONTROL BOARD

                MEMORY MAPPED MODE MCB VERSION


     This program initializes the 8255 ports reads the switches,
     and outputs the value to the LED port.

  0000    3E      MVIA        ;Initialize the 8255

  0001    8B                  ;Port A/out, Port B/in, Port C/in

  0002    32      STA         ;Send it to control port

  0003    63

  0004    DE

  0005    3A      LDA         ;Get switch value

  0006    61

  0007    DE

  0008    32      STA         ;Output switch value to LED port

  0009    60

  000A    DE

  000B    C3      JMP         ;Go back and do it again

  000C    05

  000D    00
```

BY............................... DATE...............................
CHKD. BY.................. DATE...............................

SUBJECT **8255 Tester**
Port A - Output
Port B - Input

SHEET NO........... OF..............
JOB NO............................

GRN 25 ⟩——————→ +5v to other Circuts

ALL
10K 1/4w

VIOL 17 ⟩————— Bit 7
GRY 18 ⟩————— Bit 6
WHT 19 ⟩————— Bit 5
BLK 20 ⟩————— Bit 4
BRN 21 ⟩————— Bit 3
RED 22 ⟩————— Bit 2
ONG 23 ⟩————— Bit 1
YEL 24 ⟩————— Bit 0
BLU 26 ⟩——————→ GND to other Circuts

+5V

ULN2003
or equiv.

LEDs ↓

ALL
1K 1/4w

BRN 1 ⟩———— 7 ▷o 10 ▷|——————— Bit 7
                 8

RED 2 ⟩———— 1 ▷o 16 ▷|—— Bit 6
ONG 3 ⟩———— 2 ▷o 15 ▷|—— Bit 5
YEL 4 ⟩———— 3 ▷o 14 ▷|—— Bit 4
GRN 5 ⟩———— 4 ▷o 13 ▷|—— Bit 3
BLU 6 ⟩———— 5 ▷o 12 ▷|—— Bit 2
VIOL 7 ⟩———— 6 ▷o 11 ▷|—— Bit 1
GRY 8 ⟩———— 7 ▷o 10 ▷|—— Bit 0
                 8