



# Tech Info Library

## Apple III: Console Driver--Screen Mode Switching Program

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Security: Everyone

Apple III: Console Driver--Screen Mode Switching Program

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The following program is a demonstration of how to change the Apple III screen mode.

```
PROGRAM SCREENTEST;

PROCEDURE SCREENMODE (NUMBER: INTEGER);
VAR CH: CHAR;
BEGIN
  IF NUMBER IN [0..2] THEN BEGIN {If the given number is valid}
    WRITE (CHR (14));           {turn off the screen and}
    CH := CHR (16);
    UNITWRITE (1, CH, 1, , 12);  {send the prefix character}
    CH := CHR (NUMBER);
    UNITWRITE (1, CH, 1, , 12);  {and the mode character.}
    IF NUMBER = 2 THEN WRITE (CHR (1)); {If 80 column, restore}
                                   {viewport.}
    WRITE (CHR (28), CHR (15)); {Clear screen and turn it on.}
  END ELSE WRITELN (CHR (7), 'SCREENMODE ERROR '); {else OOPS!}
END;

PROCEDURE TESTERROR;
BEGIN
  WRITE (CHR (28));           {Clear the screen.}
  GOTOXY (0,11);
  WRITE ('This will generate an error. '); {Write some text.}
  SCREENMODE (5);           {Set an invalid mode.}
  WRITELN;
  WRITE ('Press RETURN to continue: ');
  READLN;
END;

PROCEDURE TEST40;
BEGIN
  SCREENMODE (0);           {Set 40 column B/W mode.}
  GOTOXY (0,11);
  WRITELN ('This is 40 column text mode.');
```

```

WRITELN;
WRITE  ('Press RETURN to continue: ');
READLN;
END;

PROCEDURE TESTCOLOR;
BEGIN
    SCREENMODE (1);                {Set 40 column color mode.}
    WRITE (CHR (20), CHR (4));      {Set background to Dark Green.}
    WRITE (CHR (28));               {Clear the screen.}
    WRITE (CHR (19), CHR (13));     {Set foreground to Yellow.}
    GOTOXY (0,11);
    WRITELN ('This is 40 column COLOR mode. ');
    WRITELN;
    WRITE  ('Press RETURN to quit: ');
    READLN;
END;

BEGIN
    TESTERROR;
    TEST40;
    TESTCOLOR;
    SCREENMODE (2);
END.

```

Apple Tech Notes

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