



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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