

APPLICATION NOTE NO. 24.THE USE OF MULTIPLE PROGRAMS

The Enterprise computers allow more than one independent BASIC program to reside in memory at any one time. Switching between program areas in immediate mode is achieved by the EDIT command. Typing EDIT followed by a number between 0 and 255 will allow you to enter that program area. You can see which area you are in by looking at the status line.

Programs in area 0 can contain up to 48K of code. Programs in other areas can use up to 32K. A BASIC program cannot share a segment with another BASIC program. Therefore a maximum of eight BASIC programs can fit into a 128K machine regardless of whether they are 1K or 16K long. Programs can 'CHAIN' each other and pass variables. The two programs that follow are examples of this. These should be typed in exactly as shown and can be saved to cassette in the normal way so long as the correct program area has been selected.

- i) Reset computer.
- ii) Type in this program.

```
100 PROGRAM "MAIN PROGRAM"
110 ! WRITTEN BY GERALD MORGAN.
120 TEXT
130 RANDOMIZE
140 PRINT:PRINT"IF YOU LOOK AT THE 'STATUS LINE' YOU
    WILL SEE THAT THIS IS PROGRAM AREA 0. THIS IS
    THE PROGRAM AREA THAT IS USED WHEN THE MACHINE IS
    FIRST SWITCHED ON"
150 PRINT AT 12,4:"PRESS THE SPACE BAR TO START..."
160 IF JOY(0)=0 THEN 160
170 TEXT
180 FOR X=1 TO 50
190 SCORE=RND(32767)
200 PRINT AT 10,13:SCORE;"      "
210 NEXT X
220 PRINT AT 10,7:"SCORE="
230 PRINT:PRINT:PRINT:"ENTER YOUR NAME (UP TO 10
    LETTERS):":PRINT
240 INPUT NAME$
250 IF LEN(NAME$)>10 THEN 240
260 PRINT
270 PRINT"PRESS SPACE BAR FOR OTHER PROGRAM."
280 IF JOY(0)=0 THEN 280
290 CHAIN"HI_SCORE"(NAME$,SCORE)
300 END
```

- iii) TYPE:EDIT 1 <RETURN>
- iv) TYPE THIS PROGRAM IN:

```
100 PROGRAM"HI SCORE"(NAME$,SCORE)
110 ! WRITTEN BY GERALD MORGAN.
120 TEXT
130 PRINT:PRINT"IF YOU LOOK AT THE 'STATUS LINE' NOW
YOU WILL FIND THAT THIS IS PROGRAM AREA 1. THIS
AREA WAS ENTERED BY THE CHAIN command. YOUR NAME
AND SCORE WERE PASSED TO THIS COMPLETELY
INDEPENDENT PROGRAM";
140 PRINT"IN THE TWO VARIABLES NAME$ AND SCORE."&CHR$(248)
150 PRINT:PRINT:PRINT"YOUR NAME IS";NAME$;". "
160 PRINT:PRINT"YOUR SCORE WAS";SCORE;". "
170 PRINT:PRINT"TO RUN PROGRAM AGAIN TYPE:":PRINT:PRINT"
EDIT 0 <RETURN> RUN <RETURN>." :PRINT
180 END
```