

Utility Programs for Advan BASIC

Introduction

In the center of this manual you will find two disks containing utility programs for Advan BASIC. Make sure both have their write protect tabs in place. One of these is your backup copy, so put it in a safe place. Here is a list of the main utility programs with a brief description of each.

(1) `FORMATX.COD` enables people who don't own Advan BASIC to use your compiled programs. It formats a disk and places the Advan BASIC execution module on the disk. If you save the compiled code for one or more programs on this formatted disk, you can execute the programs without loading Advan BASIC.

(2) `CROSSREF.COD` lists in alphabetical order the variables used in a program and for each variable the line numbers in which the variable was used. Also, it lists in numerical order all line numbers referred to in the program and the lines where the reference occurred. This information is useful in debugging and in modifying programs.

(3) `RENUMBER.COD` rennumbers the lines of a specified program.

(4) `MATIO.APP`, `MATSET.APP`, `MATCALC.APP`, and `MAT.APP` when appended to a program provide special commands (i.e., named subroutines) to:

- print matrix data
- input or read data to a matrix
- add, subtract, and multiply matrices
- set the elements of one matrix equal to those of another matrix
- calculate the determinant, inverse, and transpose of a matrix
- set matrix elements to a given value

Note: A matrix is a two dimensional array.

(5) `DOSADD.APP` when appended to a program allows you to use the disk operating commands `KILL@`, `LOCK@`, `UNLOCK@`, `DIR@`, and `RENAME@`.

(6) `BASECON.APP` when appended to a program provides a command which converts a number from one number base to another, for example from hexadecimal to decimal and vice versa.

If you wish, you can use `COPYFILE.COD` to transfer any of the files on these utility program disks (except `FORMATX.COD`) to another disk and use that disk when you want to execute or append them. This will save some wear and tear on your utility program disks.

To execute `FORMATX.COD`, `CROSSREF.COD`, and `RENUMBER.COD`, turn on your disk drive(s), insert the disk into drive one, and turn on your computer. After about 20 seconds, you will see a menu listing the programs on the disk. Type the letter next to the program you want, and it will be loaded and executed. At the end of the program, you will be asked to reinsert the utility disk into drive one and then press `RETURN`. The utility menu will be displayed and you can execute another program if you want to.

If you are working in Advan BASIC, you can execute `CROSSREF.COD` or `RENUMBER.COD` without going through the above procedure. Just insert the