

--Package:

1. Disk: Apple Business BASIC
2. Disk: Blank
3. Manual: Instruction

--System Configuration:

1. Apple III with 128K (minimum) of memory
2. An external disk drive:
 - Apple Disk III, or
 - Hard disk drive, such as a ProFile (optional)
3. A video display device, such as a Monitor III

--Features

1. Addressing over 70K of memory on a 128K system
2. Keeps up to 10 files open simultaneously, with virtually no size constraints

Apple Technical Communications

00273: TI

--Order #: A3D0004

--Technical Specifications:

1. Environment: SOS

2. Format: 16-sector disks

3. Variables:

--64 characters maximum, all significant

--Reserved variables:

ERR, KBD, EOF, VPOS, ERRLIN, HPOS, FRE, PREFIX\$

--Data types:

a. 16-bit binary integers:

--Range: -32768 to 3277

b. 64-bit binary integers:

--Range: - to + 9223372036854775807 or $2^{63}-1$

--Precision: 18 digits

c. 32-bit binary floating-point:

--Range: - to + 10^{38}

--Precision: 6 digits

d. Character strings:

--0 to 255 characters

--dynamic

e. String and numeric arrays:

--indexed starting with 0

--no dimensional limits

4. Operators:

--General:

+ - * / DIV MOD

(NOTE: DIV and MOD are only for long integer operations)

--Binary logical:

AND OR = < > <> >< >= <= =< =>

--Unary logical:

NOT

--String:

+ (concatenation)

5. Statements:

(Note: No statement or statement list may exceed 254 characters, including delimiters.)

LET (optional)

REM

GOTO

IF...GOTO

IF...THEN

IF... statementlist: ELSE statementlist

FOR ctrl variable + expression TO expression STEP expression

NEXT ctrl variable (other ctrl variable)

GOSUB

RETURN

POP

ON expression GOTO

ON expression GOSUB

ON ERR

ON KBD

ON EOF #

OFF ERR

OFF KBD

OFF EOF #

RESUME

--Utility Statements:

NEW LOAD STOP CLEAR SAVE END FRE DELETE CONT

PREFIX\$ RUN CHAIN prog name, line number

--User-Defined Functions:

FN functionname (argument)

DEF FN functionname (argument) = expression

--Debugging:

TRACE NOTRACE

--Cursor and Screen:

LIST VPOS HOME NORMAL DEL HPOS TEXT INVERSE

--String, Numeric, and File functions:

LEN TEN CONV TAN SQR STR\$ MID\$ CONV% ATN EXP
VAL LEFT\$ CONV& INT LOG CHR\$ RIGHT\$ CONV\$ RND TYP
ASC SUB\$ SIN SGN REC HEX\$ INSTR COS ABS

--Program Resident Data Statements:

DATA READ RESTORE

--Machine Language Statements and Functions:

INVOKE PERFORM EXFN EXFN%

--File I/O:

CATALOG DELETE RENAME LOCK UNLOCK CREATE
(f=filenumber r=recordnumber)
OPEN # f (AS INPUT, AS OUTPUT, AS EXTENSION)
CLOSE# f CLOSE
INPUT # f,r OUTPUT # f
PRINT # f,r PRINT # f,r USING
READ # f,r WRITE # f,r

--Console I/O:

INPUT GET TAB SPC SCALE PRINT PRINT USING
IMAGE specification(s)

--String specifications:

Reserve a character position:

- A left-justified
- R right-justified

--Literal specifications:

- a. X prints a space
- b. / prints a carriage return/line feed
- c. "literal" prints whatever is in quotes.

--Digit specifications:

1. Reserve one numeric digit:

- a. # leading zeros suppressed
- b. Z leading zeros printed.
- c. & digit or comma (comma fill every three digits)

2. Reserve a position for the:

- a. . decimal point
- b. + positive sign

c. - negative sign (if negative)

d. \$ dollar sign:

1. ** asterisk fill
2. ++ floating sign
3. floating sign (if negative)
4. \$\$ floating dollar sign

--Scientific notation specification:

E reserves a position for the exponent (power of 10)

--Engineering notation specification:

same as scientific, except the exponent is always a multiple of three.

Apple Technical Communications

00272: TI