

Tech Info Library

Apple FORTRAN: Specifications (Discontinued)

--Order #: A2D0032

--Technical Specifications:

- 1. Format: 16-sector disks
- 2. Language:
 - a. Pascal
 - b. Produces P-code, which runs in the Apple Pascal Operating System
- 3. Intrinsic Functions:

ABS, ACOS, AINT, ALOG, ALOG10, AMAX0, AMAX1, AMIN0, AMIN1, AMOD, ANINT, ASIN, ATAN, ATAN2, CHAR, COS, COSH, DIM, EOF, EXP, FLOAT, IABS, ICHAR, IDIM, IFIX, INT, ISIGN, LGE, LGT, LLE, LLT, MAX0, MAX1, MIN0, MIN1, MOD, NINT, REAL, SIGN, SIN, SINH, SQRT, TAN, TANH

--Package:

- 1. Disk: Apple FORTRAN System
- 2. Disk: Apple FORTRAN System
- 3. Manual: Apple FORTRAN Language Reference

--System Configuration:

- 1. Computer:
 - a. Apple II
 - b. Apple II Plus with Language Card
 - c. Apple IIe
 - d. Apple IIc
- 2. disk drive: Apple Disk II

NOTE: While a single drive system is adequate for very small programs, two drives are strongly recommended for ease of operation and more serious program development

- 3. video display: Monitor II
- 4. Apple Pascal package

--Features:

- 1. Industry standard, ANSI X3.9-1978
- 2. ANSI Standard Subset of the FORTRAN 77 standard

- --Supports enhancements and facilities from the full FORTRAN 77 language
- -- Contains enhancements beyond the full FORTRAN 77 specifications:
 - 1. Compiler directives in the source code permit many files in one compilation.
 - 2. An additional parameter to the OPEN statement allows you to specify that the file is blocked or unblocked.
- --Minor differences between the ANSI Standard Subset FORTRAN 77 and Apple FORTRAN:
 - 1. Subprogram names cannot be passed as parameters.
 - 2. INTEGER and REAL data types have different storage requirements:
 - a. 2 bytes for INTEGER
 - b. 4 bytes for REAL

NOTE: Apple FORTRAN does not support double-precision arithmetic.

- 3. Apple Pascal Operating System Linker links:
 - --FORTRAN P-Code files
 - --Compiled P-code
 - --Assembled machine code
- 4. Interfaces to routines in Pascal system library
 - --High-res graphics
 - --Sound generation
 - --Hand control routines
- 5. Subscript expressions may include array elements and function calls
- 6. DO statement limits may be defined by expressions, rather than just single variables
- 7. Input/output (I/O) units may be specified by expressions, rather than just constants or simple variables
- 8. The I/O list of a WRITE statement may include expressions
- 9. All combinations of FORMATTED/UNFORMATTED and SEQUENTIAL/DIRECT files are allowed, with the following restrictions:
 - --BACKSPACE is supported only for files connected to the blocked devices -- it is not supported for UNFORMATTED SEQUENTIAL files;
 - --DIRECT files must be connected to block devices

Apple Technical Communications

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