



Tech Info Library

Macintosh Pascal: Specifications (Discontinued)

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Security: Everyone

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I. Macintosh Pascal: M0523

--Includes: Master and backup diskette
Macintosh Pascal User's Guide
Macintosh Pascal Reference Manual
Macintosh Pascal Technical Appendix

1. Compatibility:

- A. Conforms to IEEE Numerics Standard (SANE)
- B. Compatible with Lisa Pascal:
 - Most differences arise from extensions to or generalizations of LisaPascal features: differences are documented.
- C. Compatible with American National Standard Pascal

2. Environment:

- A. Utilizes the Macintosh interface: windows, mouse cursor positioning, cutting and pasting, pull-down menus
- B. Interactive and interpretive: you don't have to recompile your program each time you modify it.

3. Maximum Size:

To minimize disk I/O, the system uses the greatest amount possible of RAM memory to keep Macintosh Pascal resident.

- A. 128K Macintosh: 35K or 500 lines
 - Shared amongst the program text, variables, pseudo code representation, debugging information, and libraires.
- B. 512K Macintosh or Macintosh XL: 64K or 1000 lines
 - Limited by pointers.

4. Error Checking:

- A. Bug Dialog Box: displayed when program encounters a bug
- B. Step Feature: executes program line by line
 - a. Automatic
 - b. Manual
- D. Syntax Scan
- F. Thumbs-down Symbol: displayed when syntax or run-time errors are discovered
- G. Trace: shows what statements are being executed

5. Editing Features:

- A. Enables user to stop the program, look at the variables, change the variables, then resume execution of the program
- B. Enables user to set break points

6. Libraries:

- A. Supports predefined libraries accessed via a uses-clause

7. Windows:

- A. Edit: for entering or modifying your program
- B. Text: for text input and output
- C. Drawing: for displaying graphics
- D. Instant: execute any valid Pascal statement anytime
- E. Observe: the current value of keyed-in expressions, usually variable names, appear in the window whenever the program stops.

8. File Access:

- A. Open (instead of reset or rewrite): Open a file for random read/write access to it
- B. Seek procedure: set for random access to file components

6. Special Features:

- A. SANE (Standard Apple Numerics Environment)
- B. Access to all QuickDraw routines, as well as the mouse, sound driver and other Macintosh ROM routines
- C. Change window size, modify the cursor, interact with the mouse and keyboard, perform file I/O, etc
- D. Search function
- F. Otherwise clause in case statement
- G. Automatic indentation of program text and boldfacing capabilities
- H. Macintosh Pascal works on the Macintosh XL with MacWorks.
Some functions, such as the sound driver, aren't supported.

NOTE: Though you can access the Macintosh Toolbox with the InLine function, this function is neither documented nor supported; furthermore, careless or erroneous use of the Inline function can be fatal to your diskettes or data. For documentation on the Toolbox, see "Inside Macintosh".

