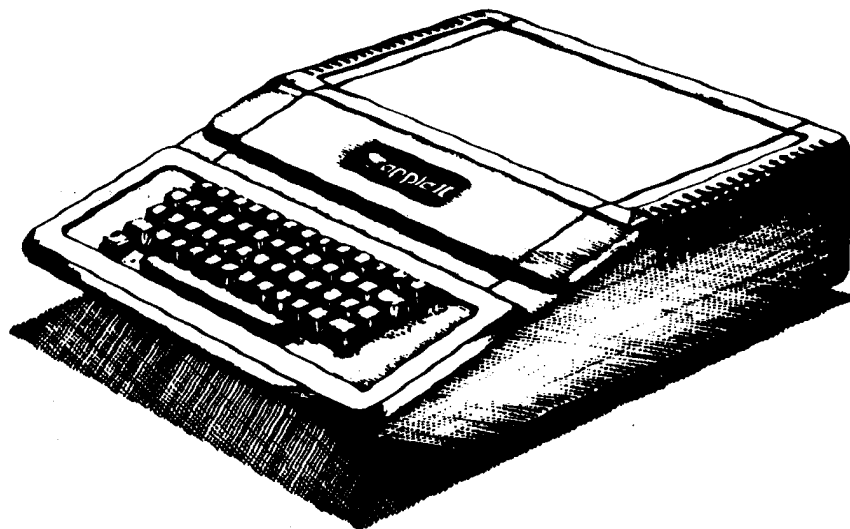


Apple 2 Computer Technical Information



Apple II Computer Family Information

Data Sheet

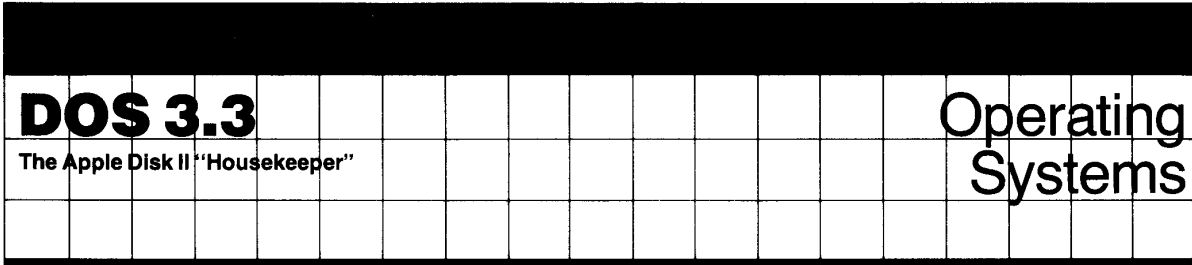
DOS 3.3

Nov. 1981

Document #

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Ex Libris David T. Craig



DOS 3.3 is the handy housekeeper developed by Apple to help you take full advantage of your Disk II Floppy Disk Subsystem. DOS automatically keeps track of files, saves and retrieves information on a diskette, and performs a variety of other "housekeeping" chores. It dynamically allocates diskette space, maximizing diskette capacity. DOS stands for Disk Operating System; 3.3 is the version update number. When you purchase an Apple Disk II with controller, you are buying an Apple floppy disk drive and DOS 3.3.

(NOTE: DOS 3.2.1 has been superceded by DOS 3.3. Programs which operate under DOS 3.2.1 cannot be read by DOS 3.3 unless converted by "Muffin," a DOS 3.3 utility program. Conversely, DOS 3.2.1 cannot read DOS 3.3 programs.)

For those Apple II Plus owners who wish to use, or are currently using, programs running under the previous operating system, Apple will continue to offer and support DOS 3.2.1 (Apple Product A2D0010).

Benefits

DOS 3.3...

- *simplifies system start-up by allowing for turnkey operation under Apple BASIC...*
- *increases disk capacity by more than 20 percent over previous versions of DOS...*
- *increases a system's capability by storing and retrieving information much more accurately, quickly, and conveniently than is possible with cassette tape...*
- *adds to system efficiency by allowing you to access data by the name under which it is filed...*
- *saves time spent searching for files because it automatically catalogs them by name and displays the complete catalog upon command...*
- *provides the capability to save, load, run, rename, delete, and verify files quickly and easily through its variety of housekeeping commands...*
- *allows rapid data retrieval through both sequential and random access to the data...*
- *allows you to make back-up copies of diskettes on a single disk drive system, rather than requiring two drives for the same purpose.*

**DOS 3.3—
A Closer Look**

If you've purchased an Apple Disk II with DOS 3.3, only a few keystrokes are required to put the program to work for you. This process is called "booting" the disk and is explained in detail in the DOS manual.

If you are using a previous version of DOS and want to update your system to run DOS 3.3, you'll need the DOS 3.3 Kit to boost your disk capacity to accommodate the new version. The kit contains two PROMs which you will need to install. (If you are using Apple Pascal, you've already installed them).

The System Master diskette that comes with the DOS manual is a very special one: it allows you to copy an entire diskette, convert any diskette that has an earlier version of DOS, and much more. Programs that demonstrate various capabilities of DOS are also included on the diskette and discussed in the manual.

With approximately 20 percent more storage capacity per diskette made available by DOS 3.3, you can store even more files on each diskette. Just type SAVE and the file name, and DOS will save it for you.

So that you'll know exactly which programs you've stored to a particular diskette, DOS provides the CATALOG command. When you use it, a list of all the files contained on the diskette will appear on your screen. To access a particular program, simply type LOAD and its name, and within seconds, you'll be using the code you've selected.

DOS 3.3

DOS also lets you rename your files quickly and simply. To change the name of your telephone number file from "PHONE NUMBERS" to "FREQUENTLY CALLED NUMBERS," for example, just type RENAME PHONE NUMBERS, FREQUENTLY CALLED NUMBERS. Presto—you've got a new file name.

It's just as easy to delete an entire file as it is to rename it. Type DELETE and the file name, and it's gone.

Some files will be more important to you than others. To ensure their safety, DOS provides the LOCK command. To prevent your file from accidental erasure, simply type LOCK and the file name. If you decide later that you want to delete the file, just type UNLOCK and the file name. You can then use the DELETE command.

The DOS 3.3 package also includes some important utility programs for file and diskette maintenance and back-up. Once you become familiar with them, you'll find that they perform many chores that save you time and make your life easier.

System Configuration DOS 3.3 is included with all Apple Disk II drives (with controller). To use DOS 3.3 and its utilities, you will need the following system:
 ■ Apple II Plus with minimum of 32K memory.

Technical Specifications

Format:
 Sectoring: soft (hard-sectored diskettes may be used)
 Recording surfaces: one
 Tracks per surface: 35
 Sectors per track: 16
 Bytes per sector: 256

Housekeeping Commands:

INIT	LOAD	DELETE	VERIFY
CATALOG	RUN	LOCK	MON
SAVE	RENAME	UNLOCK	NOMON
MAXFILES			

Access Commands:

FP	INT	PR#	IN#	CHAIN
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Sequential Text File Commands:

OPEN	READ	APPEND	EXEC
CLOSE	WRITE	POSITION	

Random Access Text File Commands:

OPEN	CLOSE	READ	WRITE
BYTE			

Machine Language File Commands:

BLOAD	BRUN	BSAVE
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DOS Messages:

DISK FULL	NO BUFFERS AVAILABLE
END OF DATA	NOT DIRECT COMMAND
FILE LOCKED	PROGRAM TOO LARGE
FILE NOT FOUND	RANGE ERROR
FILE TYPE MISMATCH	SYNTAX ERROR
I/O ERROR	VOLUME MISMATCH
LANGUAGE NOT AVAILABLE	WRITE PROTECTED

The DOS 3.3 Package
Order No. A2M0044
(Disk II with controller)

With your order for an Apple Disk II with controller, you will receive:

- Apple Disk II with controller;
- DOS 3.3 System Master diskette, including utility programs;
- DOS Version 3.3 Instructional and Reference Manual;
- BASICS diskette (for diskettes written under earlier versions of DOS);
- blank diskette.

The DOS 3.3 Kit
Package
Order No. A2D0023

With your order for the DOS 3.3 Kit, you will receive:

- two 16-sector PROMs* (P5A and P6A);
- IC puller;
- DOS 3.3 System Master diskette, including utility programs;
- DOS Version 3.3 Instructional and Reference Manual;
- BASICS diskette (for diskettes written under earlier versions of DOS).

*If you are using Apple Pascal, these PROMs were already supplied (PROMS supplied with the DOS 3.3 Kit will be spares).

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