

Chapter 2 Macintosh Classic II Software

This chapter provides a brief overview of the Macintosh Classic II ROM and system software.

The Macintosh Classic II ROM

The ROM used in the Macintosh Classic II computer differs from the ROM used in the Macintosh LC in that it has the following:

- new MMU (memory management unit) code to support the Macintosh Classic II memory map
- new video driver to support 512 x 342 x 1 video mode
- software-controlled screen brightness
- new and improved non-FPU SANE
- new support for AppleTalk

New MMU code

The Macintosh Classic II ROM contains new MMU tables and support routines to handle the changes in the Macintosh Classic II memory map. The Macintosh Classic II memory map is essentially the same as the Macintosh LC memory map, but because the Macintosh LC did not have an MMU, its ROM did not contain any MMU support. The following areas in the Macintosh Classic II are mapped:

- MMU tables for a maximum of 10 MB RAM
- MMU tables for a maximum of 4 MB ROM
- MMU tables for I/O space
- MMU tables for the video area
- MMU tables for both 24-bit and 32-bit addressing

New video driver

The Macintosh Classic II ROM includes a new video driver to support the Macintosh Classic II computer's 512 x 342 x 1 built-in video mode. This is the only video mode supported by the Macintosh Classic II computer.

Software-controlled brightness

The Macintosh Classic II ROM includes a modified version of the brightness driver used in the Macintosh Classic. This driver is used by the brightness control CDev to set the screen brightness from barely visible to the maximum brightness allowed by the Macintosh Classic II hardware.

New and improved SANE package

The Macintosh Classic II ROM contains a non-FPU SANE package that improves performance by 25percent to 40percent over that of other machines without an FPU.

Modified AppleTalk support

The Macintosh Classic II ROM contains the modified AppleTalk support code that is required with system software version 7.0.1.

System software

The Macintosh Classic II computer will ship with system software version 7.0.1.