

# Apple ][ line

The Apple ][ is a family of 8-bit computers developed by Apple (primarily by [Steve Wozniak](#)) dating back to 1977. The most recent model is the Apple IIc Plus, which was discontinued on November 1993.



The line includes:

- **Apple II** The first one. Features a 6502 CPU at 1.013 MHz and 4KB of RAM.
- **Apple II+** An incremental upgrade featuring four times the RAM (16KB).
- **Apple IIe** Even more RAM (64KB), a full ASCII keyboard and better display modes.
- **Apple IIc** The first CPU upgrade, opting to use a 65C02 CPU at 1.023 MHz and 128KB of RAM.
- **Apple IIGS** Has [its own section](#) in this article.
- **Apple IIe Enhanced** The Apple IIe but with the 65C02 CPU.
- **Apple IIe Platinum** The Apple IIe Enhanced with extra RAM (128KB).
- **Apple IIc Plus** Allowed the user to change the CPU clock between 1.023MHz and 4MHz and had an 8KB SRAM cache.

# Apple IIGS



This system scrapes metadata for the "apple2" group and loads the apple2 set from the currently selected theme, if available.

## Quick reference

- **Accepted ROM formats:** .nib, .do, .po, .dsk
- **Folder:** /userdata/roms/apple2

<b>Emulators</b>
<a href="#">GSplus</a>
<a href="#">LinApple</a>

## BIOS

No Apple ][ emulator in Batocera needs a BIOS file to run.

## ROMs

Place your Apple ][ ROMs in /userdata/roms/apple2.

# Emulators

## GSplus

[GSplus](#) is an open source, cross-platform Apple ][/IIGS emulator, based on the KEGS and GSPort emulators.

The goals of this project are to make an easier to install and easier to use emulator, and to modernize the overall codebase and emulation platform.

While much work has been done, adding new drivers and features over the past year, it is still in alpha phase. Feel free to download the package for your platform and play around, but beware there are many bugs still.

### GSplus configuration

Standardized features available to all cores of this emulator: `apple2.videomode`, `apple2.padtokeyboard`, `apple2.decoration`

## LinApple



I can't really find any information to confirm that LinApple can't run IIGS software, but best to assume it can't.

[LinApple](#) is a cross-platform Apple ][/e emulator. It is probably not capable of running Apple IIGS software.

The Pi port of it has a [readme](#).

### LinApple configuration

Standardized features available to all cores of this emulator: `apple2.videomode`, `apple2.ratio`, `apple2.padtokeyboard`, `apple2.decoration`

## Apple IIGS

About halfway through the life of the Apple ][ family line, Apple released the Apple IIGS which was a significant change in hardware to the previous Apple 8-bit computers, using a 16-bit 65C816 microprocessor, 256KB (up to 1MB) of RAM and the highest resolution display (up to 640×200) and state-of-the-art sound capabilities with the Ensoniq ES5503 DOC 8-bit wavetable synthesis sound chip. Among all the other computers in the line, the Apple IIGS remained the most performant of the bunch, and for this reason it is usually the “default” system that Apple ][ emulators will use for

running its software.

However, the Apple IIGS was only around 95% backwards compatible with software designed for the original Apple ][ computers.

## Controls

Here are the default Apple II's controls shown on a [Batocera RetroPad](#):



## Troubleshooting

### Further troubleshooting

For further troubleshooting, refer to the [generic support pages](#).

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Last update: **2021/12/16 11:08**

