



This article needs some TLC. Read at your own risk.

Macintosh

The Macintosh is a computer developed by Apple. It was released in 1984.



Macintosh

This system scrapes metadata for the "macintosh" group(s) and loads the macintosh set from the currently selected theme, if available.



Quick reference

- **Accepted ROM formats:** .dsk, .zip, .7z, .mfi, .dfi, .hfe, .mfm, .td0, .imd, .d77, .d88, .1dd, .cqm, .cqi, .dsk, .ima, .img, .ufi, .ipf, .dc42, .woz, .2mg, .360, .chd, .cue, .toc, .nrg, .gdi, .iso, .cdr, .hd, .hdv, .2mg, .hdi
- **Folder:** /userdata/roms/macintosh

Emulators	Accepted ROM formats
libretro: minivmac	.zip, .dsk
libretro: mame	.dsk, .zip, .7z, .mfi, .dfi, .hfe, .mfm, .td0, .imd, .d77, .d88, .1dd, .cqm, .cqi, .dsk, .ima, .img, .ufi, .ipf, .dc42, .woz, .2mg, .360, .chd, .cue, .toc, .nrg, .gdi, .iso, .cdr, .hd, .hdv, .2mg, .hdi
MAME	.dsk, .zip, .7z, .mfi, .dfi, .hfe, .mfm, .td0, .imd, .d77, .d88, .1dd, .cqm, .cqi, .dsk, .ima, .img, .ufi, .ipf, .dc42, .woz, .2mg, .360, .chd, .cue, .toc, .nrg, .gdi, .iso, .cdr, .hd, .hdv, .2mg, .hdi
CLK	.zip, .dsk (maybe more?)

BIOS

MAME and libretro-based emulators require these files:

MD5 checksum	Share file path	Description
66223be1497460f1e60885eeb35e03cc	bios/MacII.ROM	
2a8a4c7f2a38e0ab0771f59a9a0f1ee4	bios/MacIIx.ROM	
bc04a4252ee96826c1f41f927c145225	bios/mac128k.zip	
409d8b9a04db15b7bfbbd5fcb931bf2e	bios/mac128k.zip	
9d09a9a51c9ef3ea5719e19db22e7901	bios/mackbd_m0110.zip	
9d09a9a51c9ef3ea5719e19db22e7901	bios/mackbd_m0120.zip	
b4118b89fa68a913a225f0cf9a751fae	bios/mac512k.zip	
ab4e461833e98ef7106f24455a07769d	bios/mac512k.zip	
1467a42dee57ac265d063b3f351189fc	bios/macplus.zip	
25b1bf85b3b072d957499cef4d7e313f	bios/macplus.zip	

MD5 checksum	Share file path	Description
cf7c3259844245a8967556fa40d81243	bios/macplus.zip	
d5584762b43a9b1cb24a981f9b9b4198	bios/macplus.zip	
f83069fd7ff1fb011958f819cbff4c88	bios/macplus.zip	
875919e2544644cd628f44b5c11db036	bios/macplus.zip	
efcefe8f11c10541a503d48a07878201	bios/macplus.zip	
f4b06da98500df0747a764dfbf1862b9	bios/macplus.zip	
9fb38bdcc0d53d9d380897ee53dc1322	bios/macse.zip	
c229bb677cb41b84b780c9e38a09173e	bios/macclasc.zip	
2a8a4c7f2a38e0ab0771f59a9a0f1ee4	bios/mac2fdhd.zip	
1bf16eefb23a1bea02f031f1ef1de528	bios/nb_48gc.zip	
2a8a4c7f2a38e0ab0771f59a9a0f1ee4	bios/maciix.zip	
fa16d49527c4e6e9c0d9e46904133d39	bios/maclc3.zip	
9e8ea1552153c5e0f895e247e7d3ec1c	bios/mackbd_m0110a.zip	
93155ac7bad0fec36837252bb1e408f2	bios/nb_image.zip	
96665499f5cf2bb5b4aae6fdaf0a9fb5	bios/egret.zip	
b955ecbdf6d2f979f3683dd1d6884643	bios/egret.zip	
5035d321c5d5fa1eab5ce6bf986676e4	bios/egret.zip	

CLK requires this BIOS file:

MD5 checksum	Share file path	Description
db7e6d3205a2b48023fba5aa867ac6d6	bios/Macintosh/mac512k.rom	Macintosh 512k ROM

ROMs

Place your Macintosh ROMs in /userdata/roms/macintosh.

MAME requires a number of BIOS and device files, place in the bios folder in zip format.

Boot disks are from MAME's software lists, floppy images need to be extracted and renamed.

It is recommended to use a hard drive option if available, System 6.0.8 if not.

From mac_flop:

- macos3.img = sytem tools.img from sys30.zip
- macos608.img = system tools.img from sys608.zip

From mac_hdflop:

- macos701 = disk tools.img from sys701.zip
- macos75 = SSW750_DiskTools.img from sys75.zip

From mac_hdd:

- mac601.chd
- mac701.chd
- mac755.chd

Ir-minivmac requires MacII.ROM and MacIIX.ROM.

If booting from a hard drive, floppies may not load at boot. For best results, make a copy of one of the bootable drives, load disks manually via the MAME menu, and copy or install them to the hard drive image.

Disk images will only load on Mac IIX and are not bootable.

Emulators

RetroArch

RetroArch has [its own page](#).

libretro: minivmac


To do

libretro: mame

libretro: mame configuration

Standardized features for this core: `macintosh.autosave`, `macintosh.netplay`

ES setting name <code>batocera.conf_key</code>	Description ⇒ ES option key_value
Settings that apply to all systems this core supports	
OVERCLOCK (UNSTABLE) <code>global.mame_cpu_overclock</code>	Enhancement. Reduces system slowdown. Causes issues in some games. ⇒ default default, 30 30, 35 35, 40 40, 45 45, 50 50, 55 55, 60 60, 65 65, 70 70, 75 75, 80 80, 85 85, 90 90, 95 95, 100 100, 105 105, 110 110, 115 115, 120 120, 125 125, 130 130, 135 135, 140 140, 145 145, 150 150.
RENDERING RESOLUTION <code>global.mame_altres</code>	Enhancement. Increase the rendering resolution. Makes 3D objects clearer. ⇒ 640×480 640×480, 800×600 800×600, 960×720 960×720, 1024×768 1024×768, 1280×720 1280×720, 1600×800 1600×800, 1920×1080 1920×1080, 2560×1440 2560×1440, 3840×2160 3840×2160.


ES setting name batocera.conf_key	Description ⇒ ES option key_value
SPECIAL CONTROL LAYOUTS global.altlayout	Controls for 5/6 button games and other unique controls ⇒ Default Only default, SNES Style snes, Genesis/Megadrive Style megadrive, Modern Fightstick Style fightstick, Neo Geo Mini Pad neomini, Neo Geo CD Pad neocd, Twin Stick with Triggers twinstick, Rotated 4-Way Stick (Q*Bert) qbert.
HIGH SCORE PLUGIN global.hiscoreplugin	Enable or disable high score saving ⇒ Enabled (Default) 1, Disabled 0.
COIN SOUND PLUGIN global.coindropplugin	Play a coin drop sound effect when an insert coin button is pressed ⇒ Enabled 1, Disabled (Default) 0.
SHARE MAME ARTWORK global.sharemameart	Use the same art paths as standalone MAME - not recommended if using decorations or shaders. ⇒ On (Default) 1, Off 0.
CROP ARTWORK global.artworkcrop	Crop MAME artwork to maximize the game screen and only fill unused space. ⇒ On (Default) 1, Off 0.
CUSTOM MAME CONFIG global.customcfg	Set system-wide controls via MAME menu ⇒ On 1, Off 0.
OFF-SCREEN RELOAD BUTTON global.offscreenreload	Set gun button 2 to reload. ⇒ On 1, Off (Default) 0.
Settings specific to macintosh	
SOFTWARE LIST macintosh.softList	Use MAME software lists to identify ROM ⇒ Don't Use (Default) none, Macintosh 400K/800K Disk images mac_flop, Macintosh High Density Disk images mac_hdflop, Mac Harddisks mac_hdd.
MAC MODEL macintosh.altmodel	Select model of Mac (Recommendations are Mac Plus for B&W, Mac LC 3 for Color) ⇒ Mac 128k (128kb RAM, 2 LD Floppies) mac128k, Mac 512k (512kb RAM, 2 LD Floppies) mac512k, Mac Plus (4Mb RAM, 2 LD Floppies/HDD) macplus, Mac SE (4Mb RAM, 2 LD Floppies/HDD) macse, Mac Classic (4Mb RAM, 2 HD Floppies/HDD) macclasc, Mac II (2Mb RAM, Color, 2 HD Floppies/CD/HDD) mac2fdhd, Mac IIX (2Mb RAM, Color, 2 HD Floppies/CD/HDD/Image Reader) maciix, Mac LC 3 (Default) (4Mb RAM, Color, 2 HD Floppies/CD/HDD) maclc3.
IMAGE READER macintosh.imagereader	Install the image reader card to read idks image files (Mac IIX only) ⇒ Disabled disabled, Slot A (Default) nba, Slot B nbb, Slot C nbc, Slot D nbd, Slot E nbe.
RAM SIZE macintosh.ramsize	How much RAM the emulated Mac will have installed (Mac IIX & Mac LC 3 only) ⇒ 2MB 2, 4MB 4, 8MB 8, 16MB 16, 32MB 32, 48MB 48, 64MB 64, 96MB 96, 128MB 128.
MEDIA TYPE macintosh.altromtype	Type of ROM file to load ⇒ Floppy Disk flop1, CD cdrom, Hard Drive hard.

ES setting name batocera.conf_key	Description ⇒ ES option key_value
BOOT DISK macintosh.bootdisk	Select a boot disk or hard drive if needed ⇒ System 3.0 (LD Floppy) macos3, System 6.0.8 (LD Floppy) macos608, System 7.0.1 (HD Floppy) macos701, System 7.5 (HD Floppy) macos75, System 6.0.8 (Hard Drive) mac608, System 7.0.1 (Hard Drive) mac701, System 7.5.5 (Hard Drive) mac755.
UI KEYS macintosh.enableui	Toggle with hotkey + D-pad up or Scroll Lock in-game. ⇒ Off at Start 0, On at Start 1.
CUSTOM GAME CONFIG macintosh.pergamecfg	Enable per-game custom configuration via MAME menu. ⇒ On 1, Off 0.

MAME

[MAME](#), the Multiple Arcade Machine Emulator, is a multi-purpose emulation framework which facilitates the emulation of vintage hardware and software. Originally targeting vintage arcade machines, MAME has since absorbed the sister-project [MESS](#) (Multi Emulator Super System) to support a wide variety of vintage computers, video game consoles and calculators as well. MAME doesn't use an individual "core" for each system like RetroArch does, instead the ROM itself usually contains the necessary information to accurately emulate it, thus making it specific to the version of MAME it was made for. Overall it's a very complicated subject, we have a [guide specific to arcade](#) just for it.

MAME configuration

MAME offers a **Menu** in-game ([HOTKEY] +  or [Tab] on the keyboard). This can be used to manually adjust inputs or game settings. If you're having issues with a specific game, check the [MAMEdev FAQ for that game here](#). For MESS systems specifically, you might find more information on [MESS's wiki](#). All options can also be edited by opening the mame.ini file.

Standardized features available to all versions of this emulator: macintosh.videomode, macintosh.padokeyboard, macintosh.videomode, macintosh.bezel, macintosh.bezel_stretch, macintosh.hud, macintosh.hud_corner, macintosh.bezel.tattoo, macintosh.bezel.tattoo_corner, macintosh.bezel.tattoo_file, macintosh.bezel.resize_tattoo

ES setting name batocera.conf_key	Description ⇒ ES option key_value
Settings that apply to all versions of this emulator	
VIDEO MODE macintosh.video	BGFX for post-processing, accel/opengl for raw image. ⇒ BGFX bgfx, Accel accel, OpenGL opengl.
VSYNC macintosh.vsync	Fix screen tearing, but may drop frames. ⇒ Off (Default) 0, On 1.
BGFX GRAPHICS API macintosh.bgfxbackend	Depends on video mode being set to BGFX. Vulkan is better, when supported. ⇒ MAME Detect automatic, OpenGL opengl, OpenGL ES gles, Vulkan vulkan.

ES setting name batocera.conf_key	Description → ES option key_value
BGFX VIDEO FILTER <code>macintosh.bgfxshaders</code>	Apply a post-processing effect. ⇒ Off None, Bilinear default, CRT Geom crt-geom, CRT Geom Deluxe crt-geom-deluxe, CRT Geom Deluxe (RGB) crt-geom-deluxe-rgb, CRT Geom Deluxe (Composite) crt-geom-deluxe-composite, Super Eagle eagle, HLSL hls1, HQ2X hq2x, HQ3X hq3x, HQ4X hq4x.
CRT SWITCHRES <code>macintosh.switchres</code>	Allows the use of switchres profiles if present. ⇒ Off 0, On 1.
VERTICAL ROTATION (TATE) <code>macintosh.rotation</code>	Rotates screen by 90 degrees. Intended for rotating displays. ⇒ Off None, Rotate 90 autorot, Rotate 270 autorot.
ARTWORK CROP <code>macintosh.artworkcrop</code>	Crop artwork to only unused space, keeping the game as large as possible. ⇒ Off (Default) 0, On 1.
CUSTOM MAME CONFIG <code>macintosh.customcfg</code>	Set system-wide controls via MAME menu ⇒ On 1, Off 0.
DATA PLUGIN <code>macintosh.dataplugin</code>	Make game history, setup instructions, and special moves viewable in the menu ⇒ Enabled 1, Disabled (Default) 0.
OFF-SCREEN RELOAD BUTTON <code>macintosh.offscreenreload</code>	Set gun button 2 to reload. ⇒ On 1, Off (Default) 0.
Settings specific to macintosh	
SOFTWARE LIST <code>macintosh.softlist</code>	Use MAME software lists to identify ROM ⇒ Don't Use (Default) none, Macintosh 400K/800K Disk images mac_flop, Macintosh High Density Disk images mac_hdflop, Mac Harddisks mac_hdd.
MAC MODEL <code>macintosh.altmodel</code>	Select model of Mac (Recommendations are Mac Plus for B&W, Mac LC 3 for Color) ⇒ Mac 128k (128kb RAM, 2 LD Floppies) mac128k, Mac 512k (512kb RAM, 2 LD Floppies) mac512k, Mac Plus (4Mb RAM, 2 LD Floppies/HDD) macplus, Mac SE (4Mb RAM, 2 LD Floppies/HDD) macse, Mac Classic (4Mb RAM, 2 HD Floppies/HDD) macclasc, Mac II (2Mb RAM, Color, 2 HD Floppies/CD/HDD) mac2fdhd, Mac Ix (2Mb RAM, Color, 2 HD Floppies/CD/HDD, Image Reader) maciix, Mac LC 3 (Default) (4Mb RAM, Color, 2 HD Floppies/CD/HDD) maclc3.
IMAGE READER <code>macintosh.imagereader</code>	Install the image reader card to read idks image files (Mac Ix only) ⇒ Disabled disabled, Slot A (Default) nba, Slot B nbb, Slot C nbc, Slot D nbd, Slot E nbe.
RAM SIZE <code>macintosh.ramsize</code>	How much RAM the emulated Mac will have installed (Mac Ix & Mac LC 3 only) ⇒ 2MB 2, 4MB 4, 8MB 8, 16MB 16, 32MB 32, 48MB 48, 64MB 64, 96MB 96, 128MB 128.
MEDIA TYPE <code>macintosh.altromtype</code>	Type of ROM file to load. Disk Image requires Mac Ix and Image Reader ⇒ Floppy Disk flop1, CD cdrom, Hard Drive hard, Disk Image disk.

ES setting name batocera.conf_key	Description ⇒ ES option key_value
BOOT DISK macintosh.bootdisk	Select a boot disk or hard drive if needed ⇒ System 3.0 (LD Floppy) macos3, System 6.0.8 (LD Floppy) macos608, System 7.0.1 (HD Floppy) macos701, System 7.5 (HD Floppy) macos75, System 6.0.8 (Hard Drive) mac608, System 7.0.1 (Hard Drive) mac701, System 7.5.5 (Hard Drive) mac755.
UI KEYS macintosh.enableui	Toggle with hotkey + D-pad up or Scroll Lock in-game. ⇒ Off at Start 0, On at Start 1.
CUSTOM GAME CONFIG macintosh.pergamecfg	Enable per-game custom configuration via MAME menu. ⇒ On 1, Off 0.

CLK

CLK aka [Clock Signal](#) is a multi-system emulator that is focused on low-latency emulation, that can be used for Apple Macintosh. CLK has been added to Batocera 42.

Controls

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



Troubleshooting

Further troubleshooting

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

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