Advanced arcade emulation on Batocera

If new to arcade emulation, it is recommended to read the arcade guide first before reading this one.

This section could probably do with an overhaul of its headers.

Cleaning the ROMset

Often times, ROMsets will include all known releases. You may not have interest in copying over every known arcade game onto your Batocera.

There are two sorts of tools to help out with this. First, getting a full set in the first place can be made easier with the use of a ROM manager, but isn't strictly required if you have a full ROMset all ready to go.

You can create your own custom set of filters using Arcade Italia's search tool. When you're done setting your filters, click **Options** → **Export the results** (most managers will accept the MAME XML format).

ROM Managers:

- **RomVault**: Multi-dat manager. Can consolidate ROMs from any set into any working set. Useful to those who randomly grab ROM files from all over the joint without regard to acquiring full sets.
- **RomCenter**: A more powerful but slightly more difficult to use multi-dat manager. Useful to those that need to maintain multiple sets at once.
- **ClrMAMEPro**: The big daddy. The “everything and the kitchen sink” approach. It is the hardest to use, but also the most powerful.

Once you have a full set, use of a filtering tool can remove clones, non-games, non-working, etc. files from the set. Some ROM Managers also include filtering tools, but dedicated filtering tools are usually better.

ROM filterers:

- **Arcade manager**: A simple UI-driven filter. Easiest to use, but is focused on Recalbox/RetroPie.
- **BestArcade**: A Python script focused on filtering down the non-merged reference ROMsets (fbneo, mame2003, mame2003plus and mame2010).
- **ROMLister**: A simple tool which filters down a given ROMset based on defined attributes.

Step-by-step of how to use these tools. Under construction.

Managers

RomVault

RomVault. If not able to run, may require the installation of .NET 4.7.2.

Works by using a simple three folder system: DatRoot, RomRoot and ToSort. Put the Roms from an unknown set into the ToSort folder and RomVault will organise everything it knows (dat files from the DatRoot folder) into the RomRoot folder.

Crash course on how to use RomVault: https://wiki.romvault.com/doku.php?id=install_and_setup

RomCenter

RomCenter.

Each database requires its own dat file, but any amount of folders can be assigned to it. There is no distinction between unsorted and sorted ROMs, RomCenter will simply attempt to organise the current working ROM folder. For this reason, it is recommended to back up your ROMs first in case RomCenter or your configuration gets it wrong.

RomCenter Getting Started guide.

ClrMamePro

To Do

ClrMamePro.

Crash course on how to use ClrMamePro: http://mame.3feetunder.com/clrmamepro-quick-start-guide/

Just note that you'd want to set the ROMset type to “Non-Merged Sets” and also probably want to click **Advanced** and turn off **Separate BIOS sets** (the equivalent of a “full” non-merged set).

For more in-depth option explanations, refer to the ClrMAMEPro manual.

Filters

Arcade manager

Arcade manager.

Was designed for Recalbox and Retropie, thus it's focused on the low powered SBCs like Raspberry Pi. Still a pretty useful tool for understanding conceptually what's going on and a very good filter.

BestArcade

BestArcade.

Requires a non-merged set. Acts as a filter which uses a smart score system to decide which ROMs to keep when there are multiple matches for a single game. Somewhat simple to use, but does require Python.

ROMLister

ROMLister.

To Do

This tool is no longer maintained.

All the arcade emulators on Batocera

Too many columns. Information is not accurate. For the actual information here, can it be merged with the table on the regular guide?

Arcade emulator	Alternative name	Romset	Roms folder	Default on hardware	Purpose	Extras	Notes
MAME (standalone)	Mame	Latest	mame	PC	All arcade hardware	highscores, samples, overlays	The latest and greatest, usually the hardest to run
libretro/mame	Mame	Latest	mame	PC	All arcade hardware	highscores, samples, overlays	Batocera for PC is shipped with the latest stable MAME version available at the time of release, see table up there
libretro/imame4all	iMame4All	0.37b5	mame	RPi0 (<**v30**)	All arcade hardware	highscores, samples, overlays	Very old version, good for lower devices like pi0, but not many games supported

Arcade emulator	Alternative name	Romset	Roms folder	Default on hardware	Purpose	Extras	Notes
libretro/mame0139	Mame2010	0.139	mame	PC	All arcade hardware	highscores, samples, overlays	Good core for medium powerful boards like Pi3
libretro/mame078plus	Mame2003Plus	0.78+	mame	PC	All arcade hardware	highscores, samples, overlays	Good port for less powerful boards with back porting of more recent developments Romset is a bit specific, it's not the same as standard 0.78
libretro/fbneo	Final Burn Neo	Latest	fbneo	All	All 2D arcade hardware	highscores	1.0.0.X romset is always evolving, it is mostly base on MAME 0.187 romset, but some ROMs are different
libretro/neogeo	Neo Geo	Latest	fbneo	All	All 2D arcade hardware	highscores	can also set to use mame emulators, but fbneo is the recommanded way to go
libretro/flycast	Flycast	Latest	atomiswave	All	Atomiswave arcade hardware		AtomisWave roms can be picked from the latest mame romset
libretro/flycast	Flycast	Latest	naomi	All	Naomi arcade hardware		Naomi roms and CHD can be picked from the latest mame romset
Hypseus	Daphne	Specific	daphne	All	Daphne arcade hardware		Emulator for laserdisc arcade games like Dragon's Lair, uses a very specific non-mame based romset

Arcade emulator	Alternative name	Romset	Roms folder	Default on hardware	Purpose	Extras	Notes
libretro/fbalpha2012	Final Burn Alpha	FB Alpha 0.2.97.29	fbneo / neogeo	RPi0 (>**v31**)	All 2D arcade hardware		Emulator that performs well on low-power boards. Retropietest's excellent page on it (note we aren't using the same romset version).

NeoGeo system

The NeoGeo system is not an emulator itself, but uses the FBNeo emulator. (🔧Fix Me! Why do we have this? This doesn't work like this for any other system. This section is also confusing, are we no longer defining systems by their folder? Are settings retained from the general mame and fbneo folder?)

You can use this system to visually separate the NeoGeo games from the other arcade games, they will appear as a dedicated system in EmulationStation.

It uses the same romset as the FBNeo emulator.

Setting a Rotary Joystick with libretro mame2003plus

If you have a special stick like the Happ Rotary Arcade you need to configure both joystick and keyboard at same time:

```
Dial :   AZERTY keyboard: "^" (between  "P" and "Enter") -- QWERTY keyboard:
"[" (leftbracket)
Dial :   AZERTY keyboard: "$" (between "P" and "Enter")  -- QWERTY keyboard:
"]" (rightbracket)
Dial 2 : AZERTY keyboard: "*" (between "m" and "Enter")  -- QWERTY keyboard:
"/" (slash)
Dial 2 : AZERTY keyboard: "!" (between "m" and Right)    -- QWERTY keyboard:
"\" (backslash)
```

You must launch your game, open the *Retroarch menu* with Hotkey + B, go to **Input Interface** and activate the option **Simultaneous**. Then you can use your joystick and keyboard keys at the same time.

Highscores

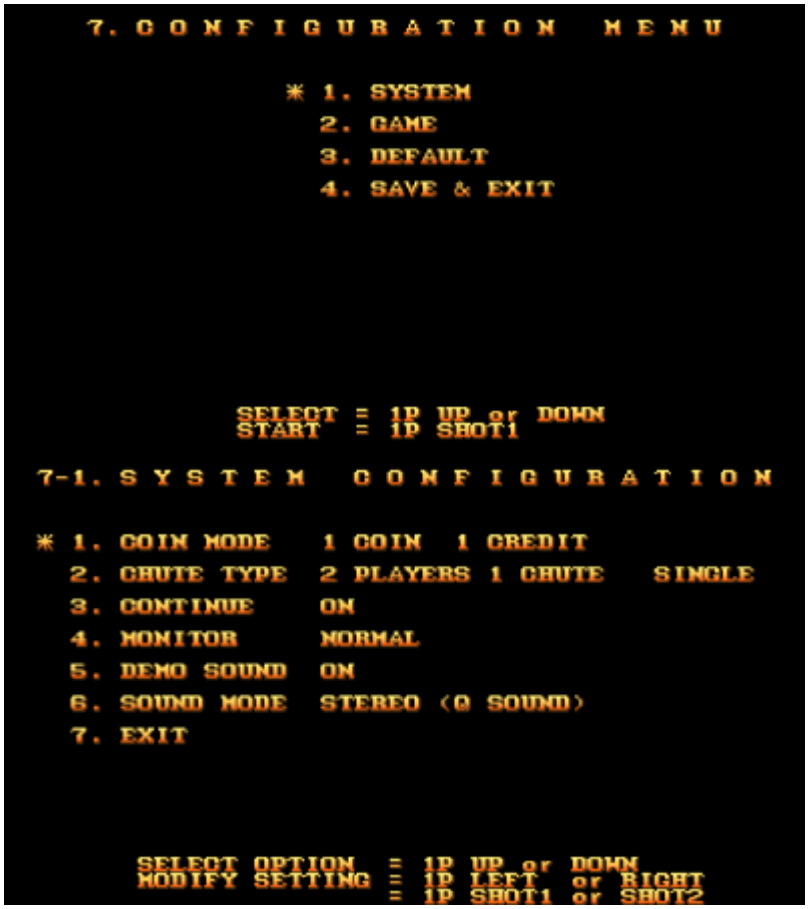
Highscores can be tracked and kept throughthe use of `highscore.dat` which mus be in the right version for each emulator / emulator version, they can be found or must be placed here :

- For FBNeo : `/userdata/bios/fbneo`
- For mame2003plus : `/userdata/saves/mame/mame2003-plus/hi`
- For mame2010: `/userdata/saves/mame/mame2010/hi`
- For mame: see temporary solution in following post

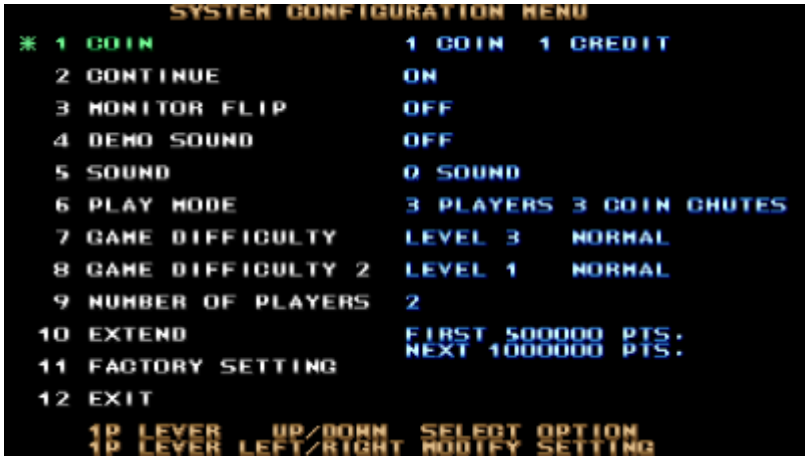
Configuration menus

This is the per-game menu for accessing the machine's advanced configuration such as its dip switches, service mode and diagnostic input.

For FB NEO, the default combo is `[START] + [L1] + [R1]` (old versions (Fix Me! what older versions? Be specific): Hold `[START]`)



7. CONFIGURATION MENU
1. SYSTEM
* 2. GAME
3. DEFAULT
4. SAVE & EXIT
SELECT = 1P UP or DOWN
START = 1P SHOT1
7-2. GAME CONFIGURATION
* 1. DIFFICULTY EASY <---4----> HARD
2. EXIT
SELECT OPTION = 1P UP or DOWN
MODIFY SETTING = 1P LEFT or RIGHT
= 1P SHOT1 or SHOT2
TEST MENU
1. INPUT
2. OUTPUT
3. SOUND & VOICE
4. COLOR
5. DOT CROSS HATCH
6. GAME DATA
* 7. CONFIGURATION
8. MEMORY CHECK
9. EXIT
SELECT = 1P UP or DOWN
START = 1P SHOT1
TEST MENU
1: INPUT & OUTPUT
2: SOUND & VOICE
3: COLOR
4: DOT CROSS HATCH
* 5: SYSTEM CONFIGURATION
6: OBJECT
7: SCROLL1
8: SCROLL2
9: SCROLL3
10: MEMORY CHECK
11: EXIT
SELECT = 1P UP or DOWN
RUN = 1P SHOT1



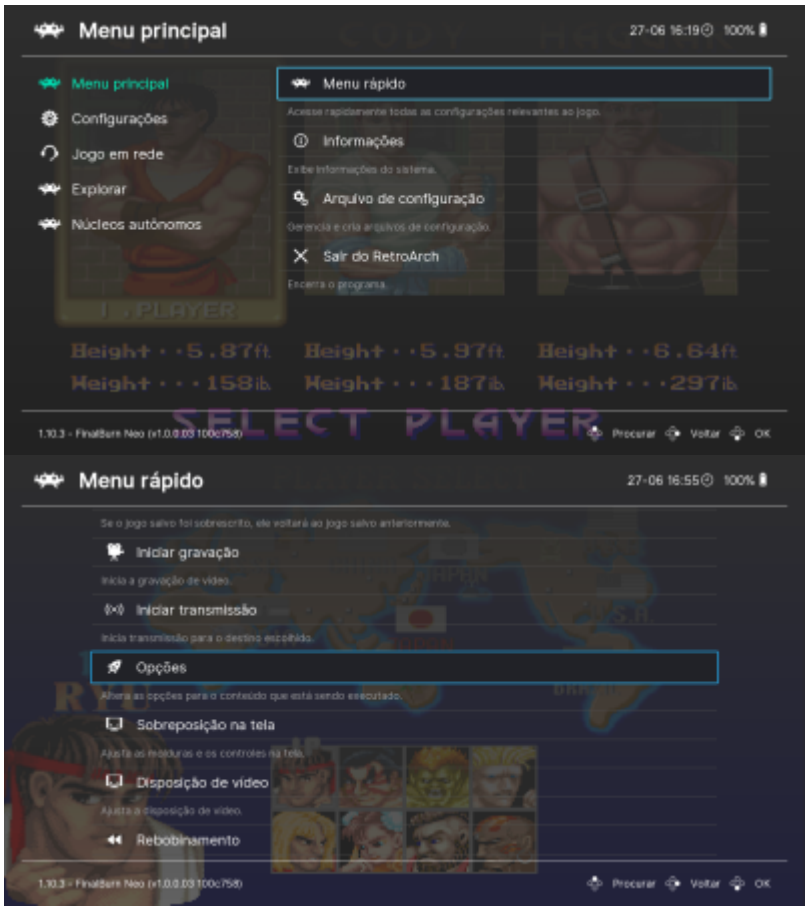
For MAME, the default combo is pushing in [L3] + [R3] (old versions (Fix Me! what older versions? Be specific. I also don't think this was even removed, ie. you can still press Tab on the keyboard to access the dip switch menu): [Tab] on the keyboard)

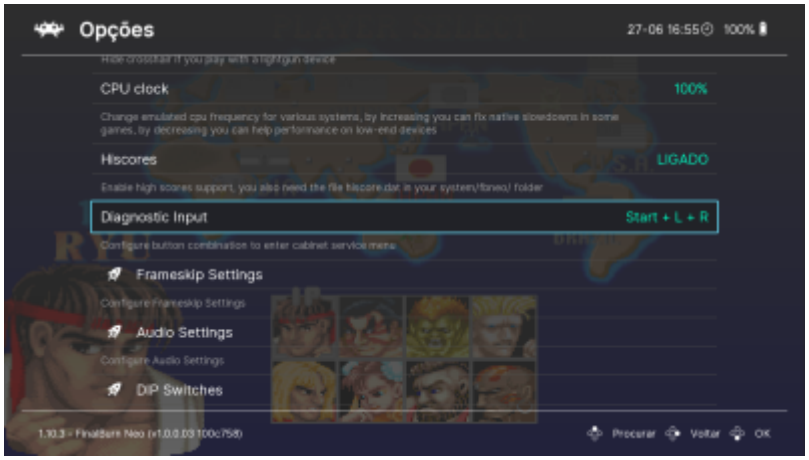
For NEOGEO:

- For the default (Fix Me! factory?) NEOGEO BIOS, the default combo is `[START]` + `[L1]` + `[R1]` (old versions (Fix Me! what older versions? Be specific): Hold `[START]`)
- For the universal BIOS:
  - At the boot screen, the default combo is holding down + +
  - During gameplay, the default combo is holding down `[START]` + `[SELECT]` or holding down `[START]` + + +

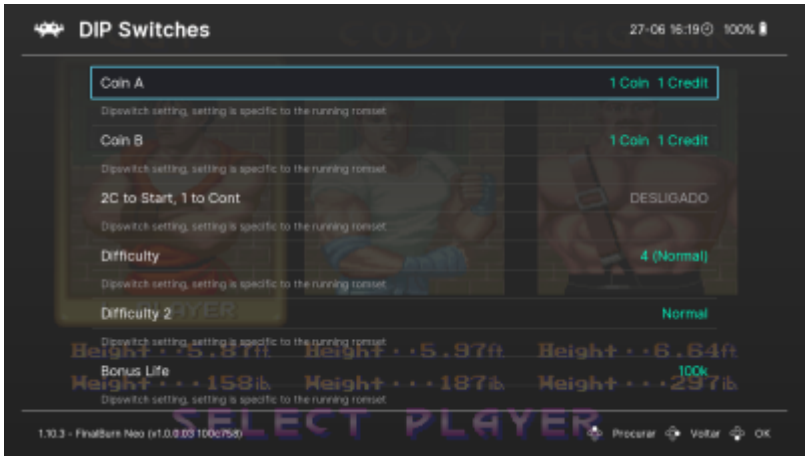
Setup a new shortcut via RetroArch:

[HOTKEY] + → **Quick Access** → **Options** → **Diagnostic Input**



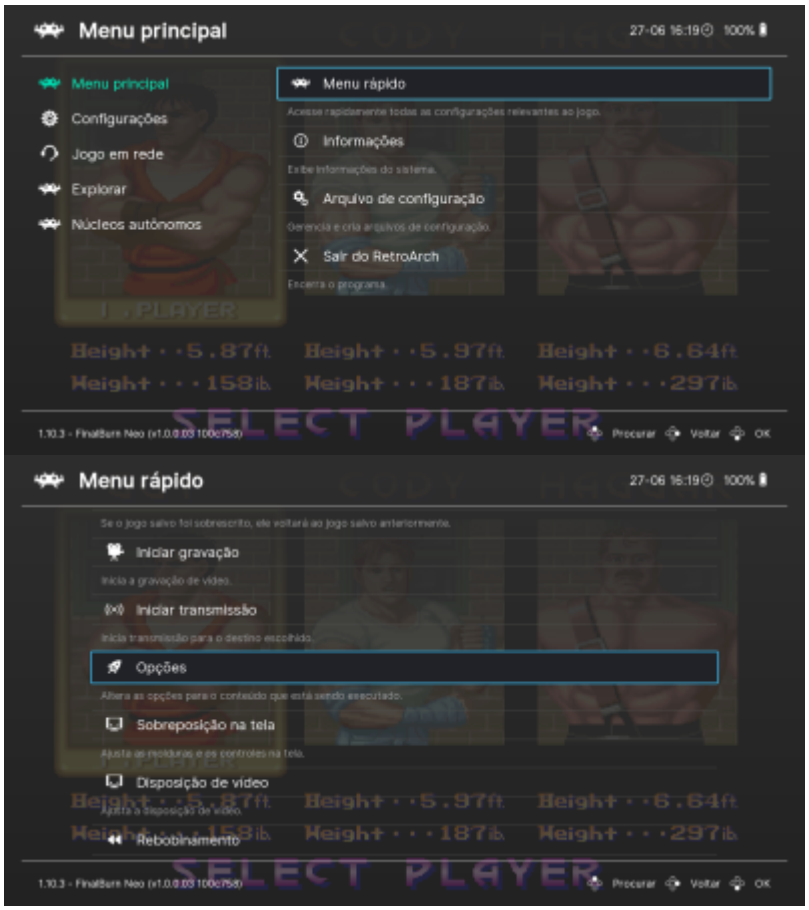


Setup DIP Switches via RetroArch: [H0TKEY] + → **Quick Access** → **Options** → **Dip Switches**

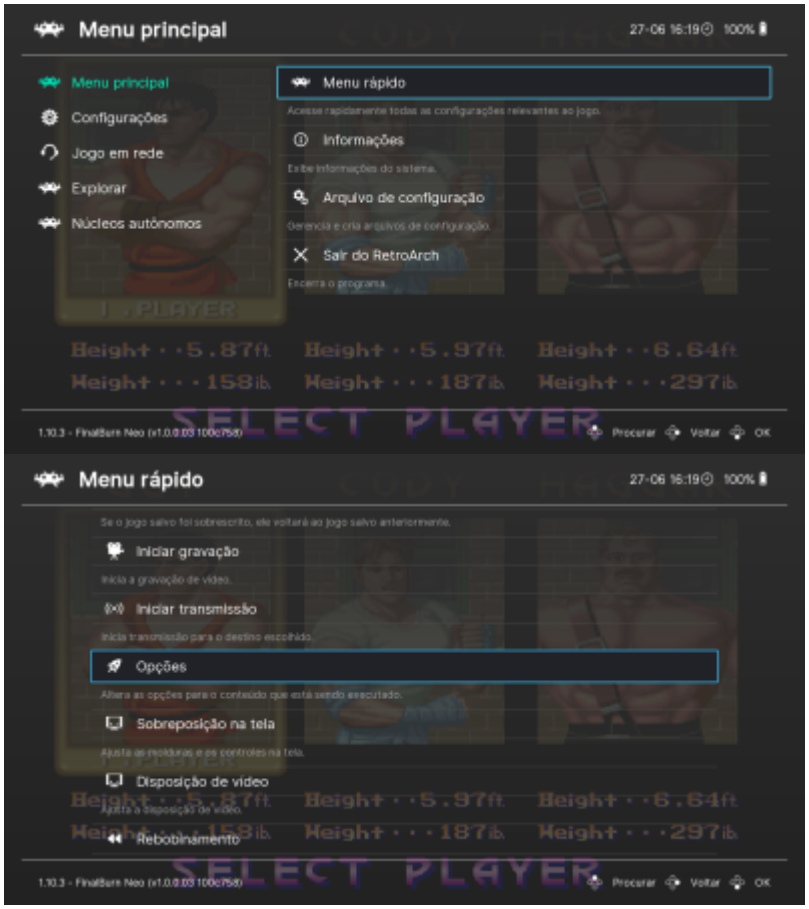


Setup NEO-GEO BIOS via RetroArch:

[HOTKEY] + → **Quick Access** → **Options** → **SPECIFIC NEO GEO BIOS** → **UNIBIOS** or **SPECIFIC BY DIP SWITCHES** (UNIBIOS)



Opções
27-06 19:02 100%
CPU clock
100%
Change emulated cpu frequency for various systems, by increasing you can fix native slowdowns in some games, by decreasing you can help performance on low-end devices
Diagnostic Input
Start + L + R
Configure button combination to enter cabinet service menu
Neo-Geo Settings
Configure Neo-Geo Settings
Frameskip Settings
Configure Frameskip Settings
Audio Settings
Configure Audio Settings
DIP Switches
Procurar
Voltar
OK
Neo-Geo Settings
27-06 19:02 100%
Neo-Geo mode
UNIBIOS
Load appropriate bios depending on your choice, under the condition such a bios is compatible with the running game
Memory card mode
per-game
Change the behavior for the memory card
Debug Dip 1_1
DESLIGADO
Enable Debug Dip 1_1
Debug Dip 1_2
DESLIGADO
Enable Debug Dip 1_2
Debug Dip 1_3
DESLIGADO
Enable Debug Dip 1_3
Debug Dip 1_4
DESLIGADO
Procurar
Voltar
OK


Menu principal
27-06 16:19 100%
Menu principal
Configurações
Jogo em rede
Explorar
Núcleos autônomos
Menu rápido
Acesse rapidamente todas as configurações relevantes ao jogo.
Informações
Exibe informações do sistema.
Arquivo de configuração
Gerencia e cria arquivos de configuração.
Sair do RetroArch
Encerra o programa.
Procurar
Voltar
OK
Menu rápido
27-06 16:19 100%
Se o jogo salvo foi sobrescrito, ele voltará ao jogo salvo anteriormente.
Iniciar gravação
Inicia a gravação de vídeo.
Iniciar transmissão
Inicia transmissão para o destino escolhido.
Opções
Abre as opções para o conteúdo que está sendo executado.
Sobreposição na tela
Ajusta as molduras e os controles na tela.
Disposição de vídeo
Ajusta a disposição de vídeo.
Rebobinamento
Procurar
Voltar
OK

Not all games have a dip switch menu, and may crash when using these commands.

Here you can change number of players, get more lives, switch for arcade or console mode, setup subtitles, or even active the free mode!

Options available (Defaults)

- Diagnostic Input (shortcut combination):
  - `None`
  - `Hold Start`
  - `Start + A + B`
  - `Hold Start + A + B`
  - **`Start + L + R`** (Default)

    - `Hold Start + L + R`
    - `Hold Select`
    - `Select + A + B`
    - `Hold Select + A + B`
    - `Select + L + R`
    - `Hold Select + L + R`
- DIP Switches (settings) - may differ from game to game:
    - Autofire: Off* or On
    - Coin Mode: Mode 1*, Mode 2
    - Coin A / Coin B | Coinage | Coin setting : 4 Coins 3 Credit, 2 Coins 1 Credit, 1 Coin 1 Credit*, 1 Coin 2 Credits, 1 Coin 3 Credits, 1 Coin 4 Credits, 1 Coin 6 Credits, Free to Play
    - 2C to Start, 1 to Continue: Yes or No* | Starting Coin: Normal, 2x
    - Difficulty: 1 (Easiest), 2, 3, 4 (Normal)*, 5, 6, 7, 8 (Hardest)
    - Difficulty 2: Easy, Normal*, Hard, Hardest
    - Bonus Life: 100K*, 200K, 100K and every 200K, None
    - Number of Players: 1, 2*, 3, 4
    - Change Lives: 1, 2*, 3, 4, 5
    - Free to play: Yes or No*
    - Freeze: : Yes or No*
    - Flip: Yes or No*
    - Demo Sound | Attractive: Yes* or No
    - Allow Continue: Yes* or No
    - Game Mode: Game* or Test
    - Sound Output: Mono or Stereo
    - Unknown: Off* or On
    - Region: Europe, USA or Japan
    - Mode: ARCADE or CONSOLE-AES
    - Subtitles: English, Japanese, Korean or Portuguese
    - Jukebox

←-

MAME input remap files

MAME machines can be remapped in-game by pressing `[L3] + [R3]` (old versions: `[Tab]`) to open the MAME configuration screen, then go to “Input for this game”. Press `[Enter]` or . Inputs can be cleared by double-tapping `[Enter]`/ instead.

Remap configuration files are stored at `\userdata\saves\mame\mame(version)\cfg\`. More info at the remapping page.

Automatic Controller Mapping

Standalone MAME and libretro/MAME have options to automatically map the controls for certain games and controller types. For more information, see Automatic Controller Layouts.

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