Cave CV1000

The Cave CV1000 (also known as Cave SH-3) is an arcade system board used by Cave for all their arcade releases from 2004 to 2012, with the exception of Deathsmiles II. Powered by a Hitachi SH-3 CPU, the platform is famous for its legendary bullet hell (danmaku) shoot-em-ups including the Dodonpachi, Mushihime-sama and Espgaluda series. The board has three revisions: CV1000-B (early), CV1000-B (later) and CV1000-D.

This system is only available on **x86_64** builds.

Quick reference

- **Emulators:** RetroArch (default), MAME, Demul
- **Cores available:** libretro: MAME (default), MAME (standalone), Demul
- **Folder:** `/userdata/roms/cave3rd`
- **Accepted ROM formats:** `.zip`, `.7z`

BIOS

No BIOS files are required.

ROMs

Place your Cave CV1000 ROMs in `/userdata/roms/cave3rd`.

ROMs should be in zipped format compatible with **MAME 0.284** or later.

The emulators are still work in progress for Cave CV1000 games, so mileage will vary. Performance depends on your x86_64 system hardware. If you get audio stuttering and slow music, your system is not powerful enough to run this system.

Emulators

RetroArch

RetroArch with the **libretro: MAME** core is the **default emulator** for Cave CV1000 in Batocera.

RetroArch configuration

RetroArch offers a **Quick Menu** accessed by pressing `[HOTKEY]` +  which can be used to alter

various things like RetroArch and core options, and controller mapping.

MAME

MAME (standalone) can be used as an alternative emulator for Cave CV1000 games. It supports the full Cave CV1000 ROM set.

Demul

Demul is a Sega Dreamcast and arcade emulator running under WINE.

Your graphics card requires **Vulkan drivers** for Demul to work.

Demul: First start

You need to run a ROM at least once **and** be connected to the internet. This creates the directory structure and installs the associated Windows libraries for WINE.

It may take some minutes before the game starts on first use — this is normal. Please be patient as it can take up to 2 minutes depending on your internet connection speed.

Demul: Controllers

Currently controllers cannot be configured using the desktop app. This is a limitation of the Demul app under WINE but also a known buggy pad plugin, even under Windows. Currently 2 players are mapped using the emulator's default keyboard configuration via evmapy.

Demul: Service Menu

A keyboard is required. You can access the Service Menu using **F4** and then use **F2** to navigate with **F4** to select.

Demul configuration

ES setting name `batocera.conf key`	Description » ES option key `value`
GAME ASPECT RATIO `cave3rd.demulRatio`	Set the game aspect ratio. » Stretch `0`, 4:3 (Default) 1, 16:9 2.
VSYNC `cave3rd.demulVSync`	Fix screen tearing. » Off `0`, On 1.

Demul: Compatible ROMs

Demul has a specific list of currently compatible ROMs:

ROM name	Game title
akatana	Akai Katana
deathsmil	Deathsmiles
dsmbl	Deathsmiles Mega Black Label
ddpdfk	Dodonpachi Daifukkatsu Ver. 1.5
ddpdfk10	Dodonpachi Daifukkatsu 1.0
dfkbl	Dodonpachi Daifukkatsu Black Label
ddpsdoj	Dodonpachi Saidaioujou
espgal2	Espgaluda II (CV1000-C)
espgal2a	Espgaluda II (CV1000-B)
futari10	Mushihime-sama Futari
futari15	Mushihime-sama Futari Ver. 1.5
futari15a	Mushihime-sama Futari Ver. 1.5 (alt)
futaribl	Mushihime-sama Futari Black Label - Another Ver
futariblj	Mushihime-sama Futari Black Label
ibara	Ibara
ibarao	Ibara (original)
ibarablk	Ibara Kuro Black Label
ibarablka	Ibara Kuro Black Label (alt)
mmmbanc	Medal Mahjong Moukari Bancho
mmpork	Muchi Muchi Pork!
mushisam	Mushihime-sama
mushisama	Mushihime-sama (alt A)
mushisamb	Mushihime-sama (alt B)
mushitam	Puzzle! Mushihime-tama
mushitama	Puzzle! Mushihime-tama (alt)
pinkswts	Pink Sweets: Ibara Sorekara
pinkswtsa	Pink Sweets: Ibara Sorekara (alt A)
pinkswtsb	Pink Sweets: Ibara Sorekara (alt B)
pinkswtsx	Pink Sweets: Ibara Sorekara (alt X)

With both MAME and Demul you should be able to play the full collection of games.

Troubleshooting

For further troubleshooting, refer to the generic support pages.

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