


# Sony PlayStation 2

The PlayStation 2 (PS2) is a sixth-generation console released by  [Sony Computer Entertainment](#) on October 26, 2000 and it was retailed for \$299.99. It has the Emotion Engine CPU at 300 MHz with 32MB of RDRAM system memory and 4MB of eDRAM (VRAM). Its GPU was a custom Graphics Synthesizer, which ran at 150 MHz. It became the highest selling console of all time with over 160 million units sold.

<b>shortname</b>	ps2
<b>emulator/core(s)</b>	PCSX2
<b>rom format(s)</b>	.iso .mdf .nrg .bin .img .dump .gz .cso .chd

## Emulators

### PCSX2

[PCSX2](#) is a free and open-source PlayStation 2 emulator for Windows, Linux, and macOS that supports a wide range of PlayStation 2 video games with a high level of compatibility and functionality. Although PCSX2 can closely mirror the original gameplay experience on the PlayStation 2, PCSX2 supports a number of improvements over gameplay on a traditional PlayStation 2, such as the ability to use custom resolutions up to 8192×8192, anti-aliasing, and texture filtering.

Batocera is shipping the latest PCSX2 Linux standalone binary. Check out the up-to-date [official compatibility](#) list for more information.

### Configuration

setting	description	recommendation
ps2.fullboot	Show BIOS animation when starting content	Can be disabled for the most games but should be enabled when you experience problems
ps2.EmuCore_EnablePatches	Enable automatic game fixes	Can be enabled to apply safe game fixes automatically
ps2.align_sprite	Fix for removing vertical black lines in several games	Enable per game for affected titles like Tekken or Soul Calibur
ps2.internal_resolution	Resolution scaling (2x for 720p, 3x for 1080p)	Choose depending on your CPU/GPU. Lower for <a href="#">GPU intensive games</a>
ps2.skipdraw	Skips drawing some surfaces based on how likely they are to cause issues. This option may help with removing ghost images or other post-processing effect rendered incorrectly	Enable per game if you experience graphical errors

## ROMs

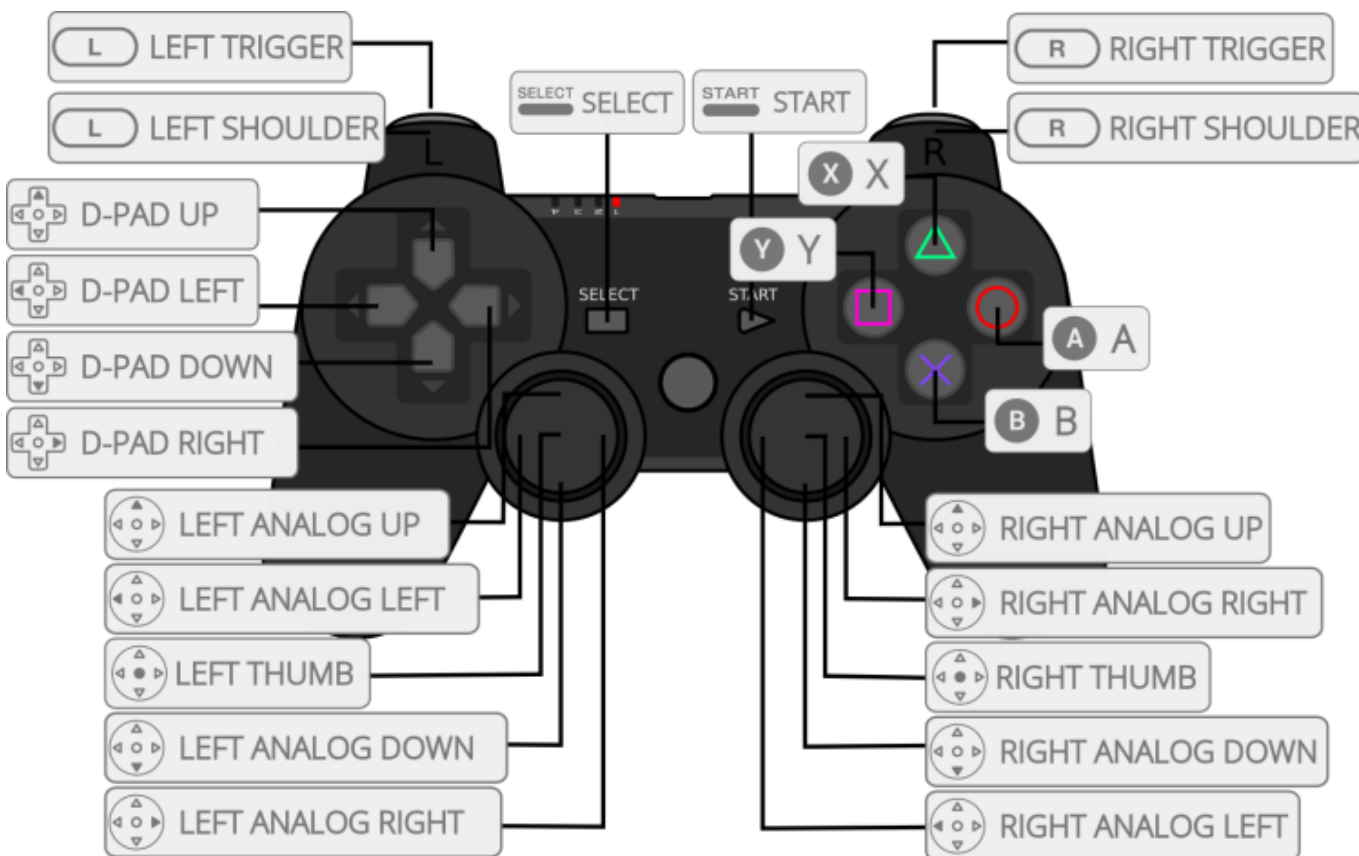
Place your Sony PlayStation 2 ROMs in /userdata/roms/ps2/.



The recommended format to save space maintaining full compatibility (starting Batocera v31) is [CHD](#).

## Controls

The default button mapping to the PS2 controller is as following:



## Troubleshooting



A lot of the special configuration for troubleshooting is done via `pcsx2-config` which you can reach via the [Batocera applications menu](#).

## Performance

PS2 emulation with PCSX2 requires a relatively decent CPU with a good GPU for hardware acceleration. It will only work on x86/x86\_64 machines. Even if your Batocera system does emulate [Wii U](#) or even [PS3](#) games fine it may struggle with PCSX2 emulation in terms of graphic improvements or resolution upscaling. You can find some [PC performance measurements and recommendations on this page](#).

If you still have trouble try to keep the original resolution and default emulation settings. Some games need high-end, possibly [overclocked CPUs](#) or [powerful GPUs](#), whereas some games run even on [weak processors](#).

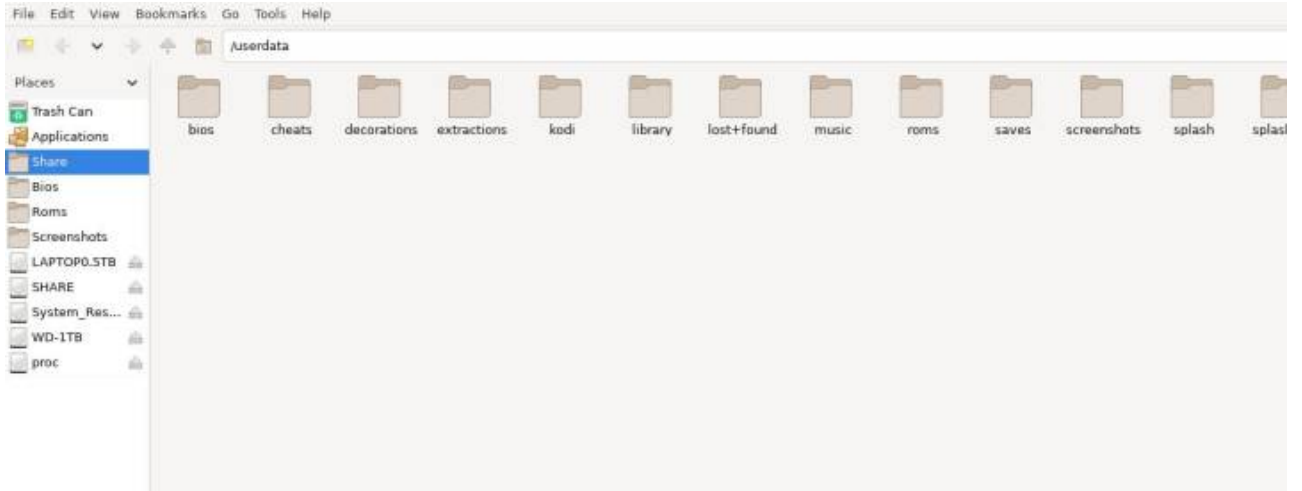


The [PCSX2 Wiki](#) offers tons of well documented guides and optimizations for specific games - just use the search function on that wiki to find your desired game guide.

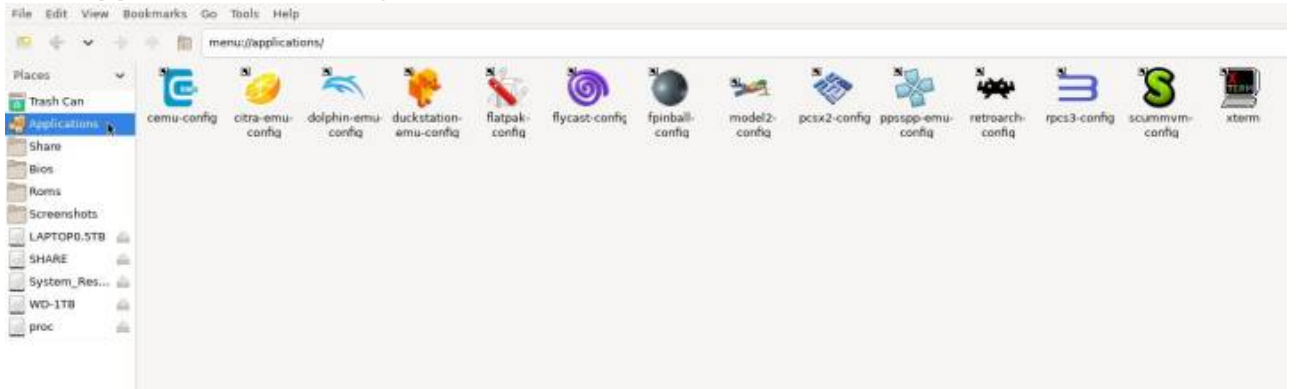
With that said, what if you're experiencing unusually low performance on hardware that should otherwise be running it at full speed? Sometimes the configuration file gets corrupted and resets to using "all defaults" according to PCSX2, which is to say *not good*. You can reset your configuration by doing the following:

1. Open up the file manager by pressing [F1] on the system list.

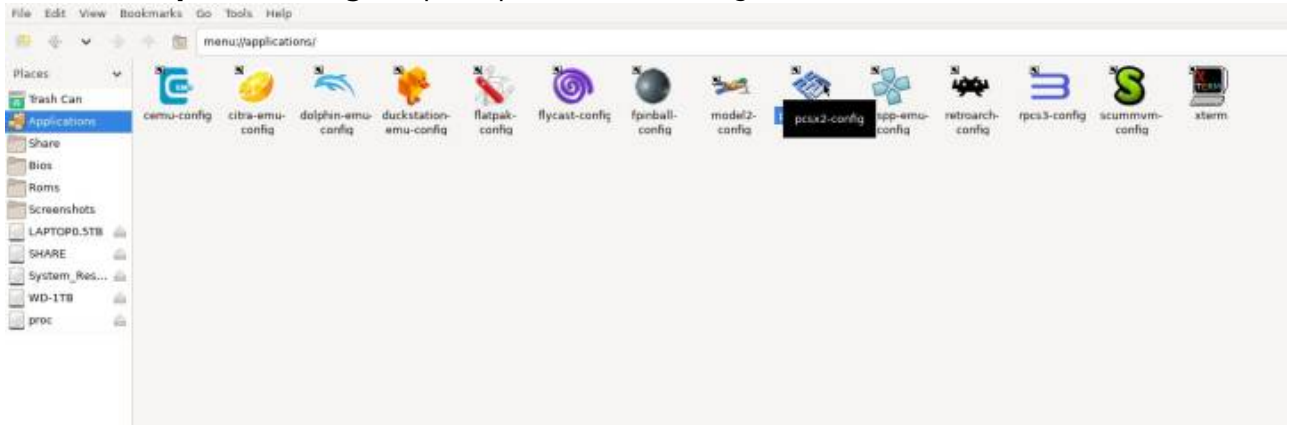




2. Click **Applications** in the top of the sidebar on the left.

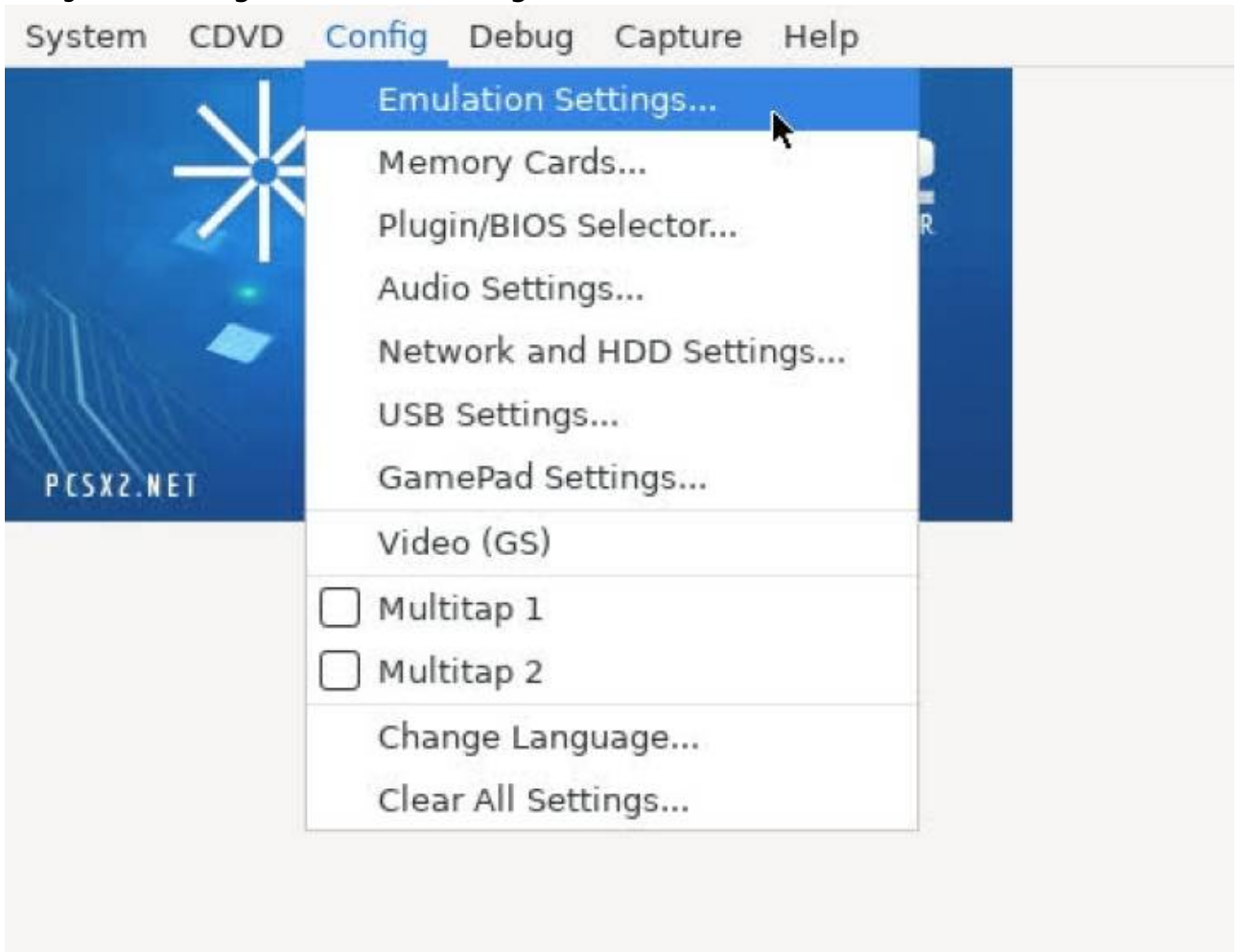


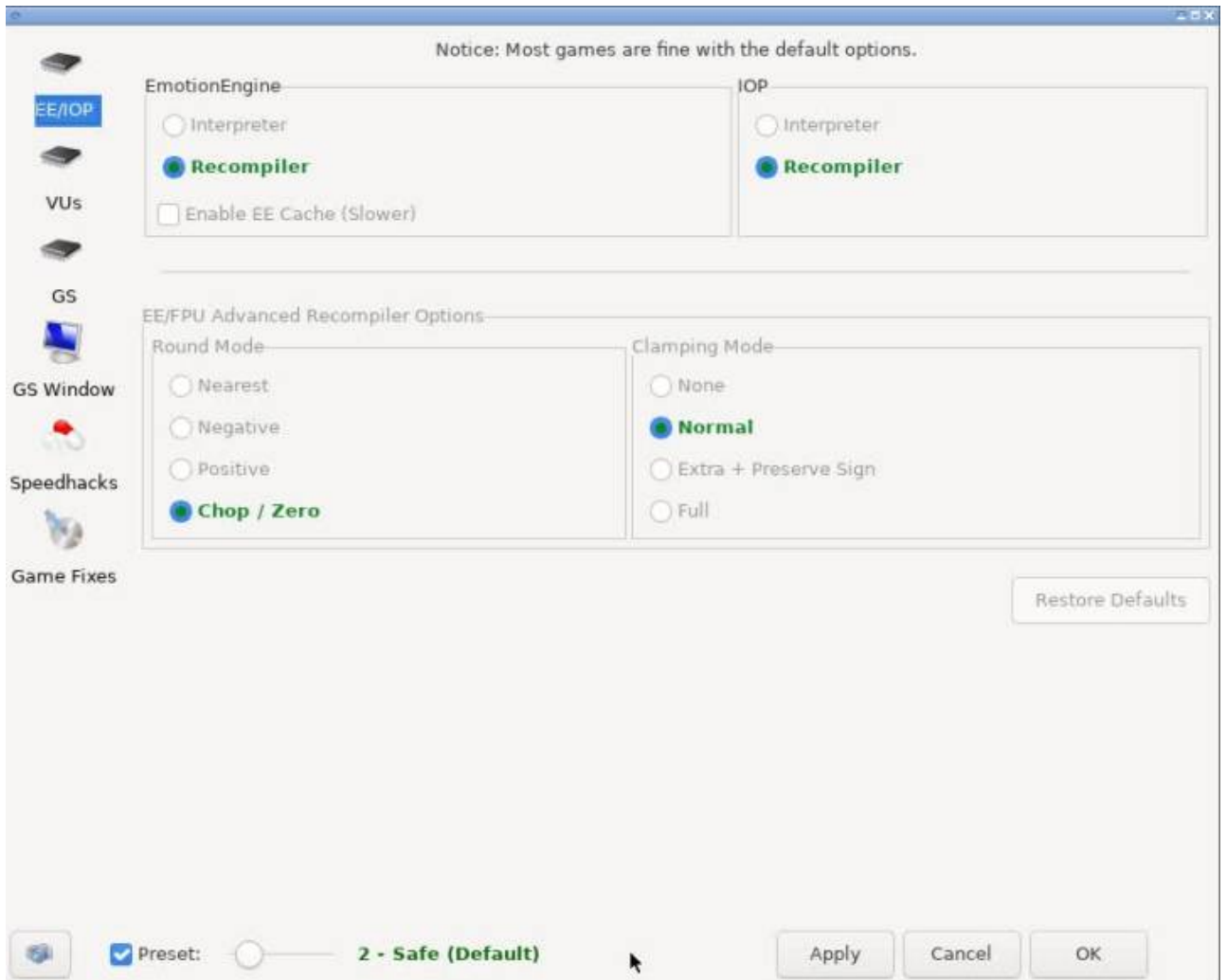
3. Double-click **pcsx2-config** to open up the PCSX2 configuration tool.



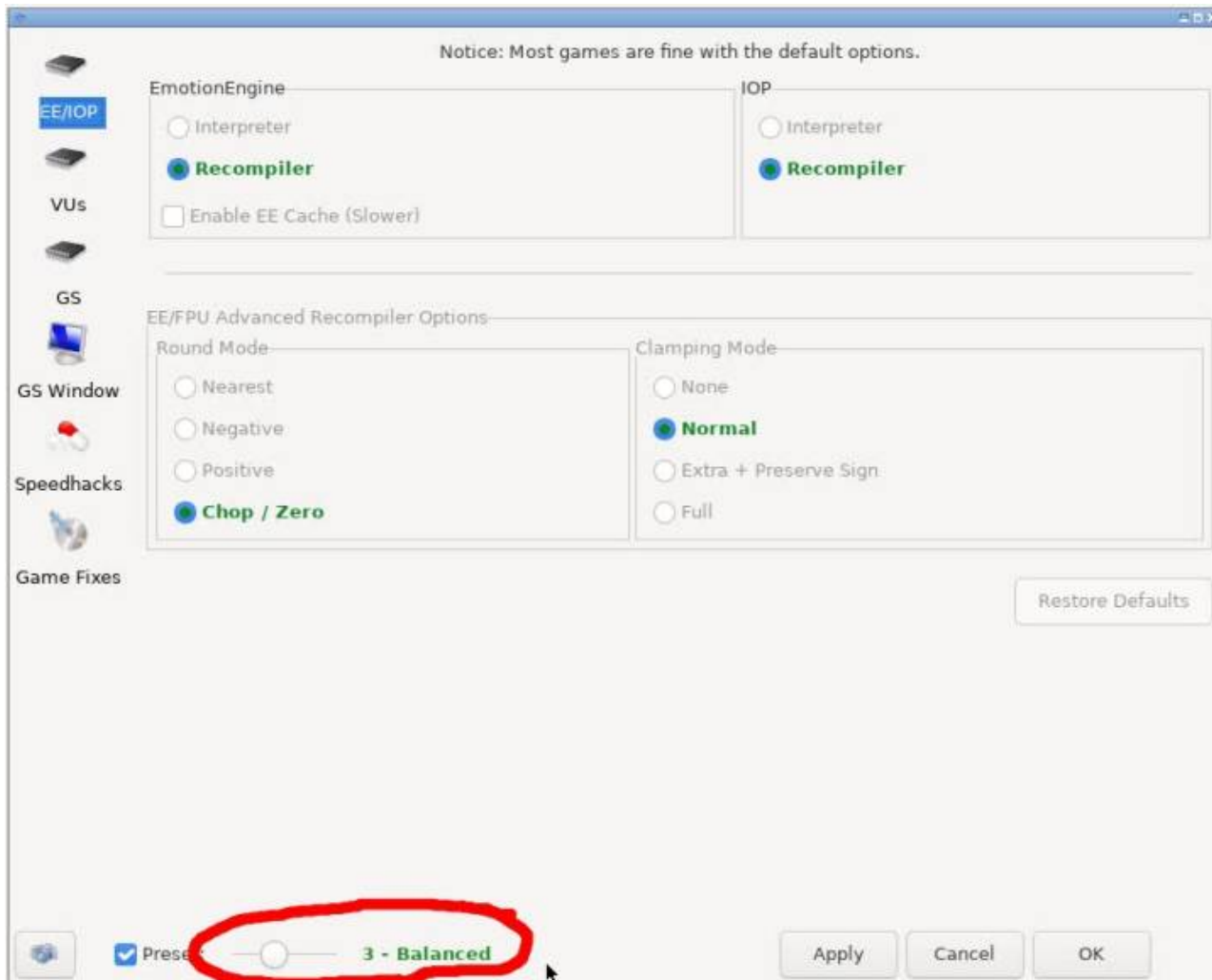


4. Navigate to **Config** → **Emulator settings...**





5. Slide the preset at the bottom of the window to the right until it says "3 - Balanced". On older, single/dual-core machines you may want to slide this back to the default of "2 - Safe".



6. Press **Apply**. Quit PCSX2 with [Ctrl]+[Q] or by using the **File** menu.

7. Test out your game. 😊

### Intermittent warped audio

Due to how the synchronizing function of the audio plugin works, even when running games on a computer that is capable of going way above 100% speed in a stable fashion, random bits of time-stretched audio can be heard occasionally or even frequently.

A good workaround is to set the audio syncing method to *Async Mix* via pcsx2-config. This can cause A/V sync issues with certain games and is **not recommended with rhythm games**. Do not set it to None as it basically does the same thing as Async Mix but has more issues.

### Specific game does not boot

Be aware that some games relies on BIOS to get start-up parameters and thus may not work correctly with disabling the BIOS start animation. Therefore you should enable the boot animation in the first step for problematic games with `ps2.fullboot=1`.

Also ensure that automatic gamefixes are enabled in Batocera. If you still have problems take a look at the official [PCSX2 Wiki](https://www.wiki.batocera.org/) and use the search function on that wiki to find information for the affected

game.

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