

**DCLXVI) OLD MAN SABA'S N64 EMULATION APPRECIATION
STATION [IT'S A PEACEFUL LIFE EDITION]**



For Windows PC users who desire the simple, “it-just-works” experience out of the box, the standalone emulator [Mupen64Plus](#) is the gold standard for emulating Castlevania 64 (and all other N64 titles). It’s fully compatible with Windows 7/8/10, and the devs maintain an active Discord community to help with tips, tricks, and troubleshooting. The menus offer options for upscaling, enhanced texture filtering, and the like, but most games will play flawlessly on the vast majority of hardware configs without your needing to toggle any of the menu options.

There’s a version for Android as well: [Mupen64Plus FZ](#). Sadly, there are no N64 emulators for Apple’s iOS, and there probably never will be. Apple does not allow emulators on its official storefront, so you’ll need to THINK DIFFERENT™ and figure out how to jailbreak your iPhone and sideload emulators if you want to play on the go.

But N64 emulation is tricky, even in 2022. So if your PC struggles with Mupen64Plus and you need an alternative emulator that works well on potato hardware, [check out Project64](#). Project64 also has an active Discord server, and the retro-gaming website FantasyAnime maintains an [excellent step-by-step guide on setup and configuration](#).


For Mac users, currently the [OpenEmu frontend](#) is the best way to emulate N64 games on Apple laptops and desktops. User-inputs are handled through a GUI, while different system cores emulate on the backend – all with full plug-and-play support for modern gamepads. There is a [robust OpenEmu wiki and user guide](#) that should help answer most questions, as well as an active Discord community.

Now, I already know what the next burning question is: “How about the Windows power users who like to spend as much time changing their menu configurations as actually *playing* their games??” Don’t worry, because I’ve got you covered – that’s what RetroArch is for.

In terms of compatibility, customizability, and sheer flexibility, RetroArch is THE best way to emulate the Nintendo 64. (As well as pretty much every other retro system out there.) But it’s also incredibly confusing, because its frontend can be charitably described as “looking like that faux UNIX system from Jurassic Park.” A crash-course in RetroArch is far outside of the scope of this doc; however, there are [loads of useful written tutorials](#) and YouTube videos that will get you started.

So, for all the RetroArch grognards who didn’t immediately skim past this doc, or for anyone who’s interested in learning how to use RetroArch, here are my recommended settings I used to emulate Castlevania on the N64, via the **Vulkan graphics driver** and the **Mupen64Plus-NEXT emulator core**:

Part 1: Emulator settings – Dynarec CPU core, ParaLLEI RDP plugin, HLE RSP plugin

 Options

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Angrylion

Configure Angrylion Options.

CPU Core

Dynarec

Select the R4300 CPU Backend, use Interpreter for best compability

RDP Plugin

ParaLLEI-RDP

Select a RDP Plugin, use Angrylion (if available) for best compability, GLideN64 for Performance

RSP Plugin

HLE

Select a RSP Plugin, use HLE for best performance, ParaLLEI for best LLE Performance and CXD4 as LLE fallback

Frame Duplication

OFF

Enable Frame duplication to improve smoothing on low-end. Different from frameskip.

Framerate

Original

Fullscreen will enforce Count per Op 1 and FBEmu settings, this will break some games!

VI Refresh (Overclock)

Auto

Select a VI Refresh clock, Auto does not impact behaviour, other values override CountPerScanline.

Disable Expansion Pak

OFF

Force disable Expansion Pak (might improve performance for some games while reducing emulation accuracy, will break games that require it).

Ignore emulated TLB Exceptions

Don't Ignore

(HACK) Ignore emulated TLB Exceptions, this might fix some broken romhacks. This option might be removed in the future.

Count Per Op

0

Count per Op is used to approximate the Counter reg, 0 will use the embedded Database (or default to 2). Changing this will break stuff!

Count Per Op Divider (Overclock)


0

Denominator for Count per Op (allowing sub-1 Count per Op in practice). Changing this can break stuff!

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Part 2: ParaLLEI-RDP plugin settings

 ParaLLEI-RDP

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Synchronous RDP

ON

Enable full accuracy for CPU accessed frame buffers.

Crop overscan

0

Crop pixels around edge of screen.

VI Divot filter

ON

Allow VI divot filter, cleans up stray black pixels.

VI Gamma dither

ON

Allow VI gamma dither.

VI anti-aliasing

OFF

Allow VI anti-aliased fetch filter, smooths polygon edges.

VI bilinear

OFF

Allow VI bilinear scaling on scanout.

VI dither filter

ON

Allow VI de-dither filter, recovers significant color depth.

Upscaling factor (restart)

2x

Apply internal upscaling factor.

SSAA framebuffer effects (restart)

OFF

Super sample framebuffer effects. May introduce artifacts.

Dither SSAA framebuffer effects (restart)

ON

Dither super sampled framebuffer effects.

Downsampling factor

OFF

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