NootedRed

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Prerequisites

NootedRed

The AMD iGPU kernel extension.

The entire Vega Raven ASIC family (Ryzen 1xxx (Athlon Silver/Gold) to 5xxx, and 7x30 series).

iGPU compatibility

macOS compatibility

macOS 10.15 to macOS 14. Don't request any lower macOS version; it's not possible to go below 10.15 as the iGPU logic

was introduced in that version, and in lower macOS versions there's no RDNA code (used for DCN and VCN).

Your system must not have a GCN 5 or RDNA AMD dGPU.

Prerequisites

- They can be disabled using the -wegnoegpu boot arg or the disable-gpu device property. Increase VRAM size.
 - 512MiB minimum, 1GiB+ for proper functionality. Disable Legacy Boot, also known as CSM and Boot Mode.
- (i) Otherwise you will meet kernel panics like Failed to get VBIOS from VRAM.
 - Remove WhateverGreen.kext. (i) NRed conflicts with it.
- Use MacBookPro16,3, iMac20,1 or iMacPro1,1 SMBIOS MacPro7,1 might result in a black screen.
- Do your macOS updates (the minor ones, not necessary to go e.g. macOS 11 -> macOS 12)
- Usually only works on laptops.

SSDT-ALS0.aml | if you have no Ambient Light Sensor

Backlight functionality

BrightnessKeys.kext for keyboard brightness control (some vendors might require custom SMC kexts)

SMCLightSensor.kext

SSDT-PNLF.aml

Frequently asked questions

was deemed that they should not gain publicity from it.

screen or restart after black screen

Why's development not as active now?

These entries are not in any particular order.

What happened to NRed's commit history? Weren't there like a thousand

Project's alive. I'm just overwhelmed. There were several problems caused by two members of our team, and they had to be

Catalina doesn't work with NRed on my computer; I get stuck on a black

As mentioned previously, the "controversy" with those two ex-team-members. They didn't contribute much to the project and it

macOS' settings.

commits before?

kicked out.

Known issue. We don't know the problem yet; it works on most systems. You'll have to be patient for now.

Known issue. We don't know the problem yet; it works on most system. You'll have to be patient for now (again).

My external display's audio appears, but no audio comes out of it

My HDR-enabled display boots to a black screen with flashing backlight

Disable HDR either from the BIOS, a tool like Smokeless-UMAF or by connecting to the computer remotely and doing it from

As far as we know, the code in the AMD kexts simply cannot handle OLED displays. Use an app like Lunar in order to achieve this.

My OLED display cannot have its brightness adjusted

Catalina has no brightness control code. Use an app like Lunar, I guess.

I cannot adjust my brightness on Catalina

graphical artefacts amongst other problems Known issue, but unknown cause.

Chrome, Chromium-based browsers and apps like Sublime Text cause

For the browsers you can disable GPU Rasterisation inside chrome://flags as a workaround or just use Safari.

Anything else will likely require complete neutralisation of GPU/Hardware acceleration.

> open -a Google\ Chrome --args --disable-gpu

If you can't even open the (chromium-based) browser because of the issue, you can launch via the following:

With the RestrictEvents kext you can put revblock=media in your boot args to reduce this to a minimal amount. The issue

seems to be excessive usage of compute by various macOS services like image analysis.

Constant freezes and crashes on Ventura and newer

Cause of the compute dysfunctionality spanning across all macOS versions remains unknown.

Do I just drag and drop this kext and we're good?

Yes, as long as you've done the prerequisites as described here.

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Configuration

Laptops