# macos 13 bootloop beim ersten Start nach der Installation !

**Beitrag von „fabiosun" vom 12. November 2022, 18:00**

[waylin](#) happy for the good results you have had

## 1) you are an AMD CPU user

AMD users have to hope that when they update OS to a newer version, AMD Kernel patches are working with the new OS release ( and this is a risk more we have respect hackintosh Intel users)

Patches used in your config.plist (section Kernel/Patches) are useful to boot from High Sierra os to latest Ventura 13.1 beta 2 os (your GPU instead is supported from Big Sur 11.4 OS, before no GPU acceleration and a bad OSX experience)

A famous and used source is Dortania guide, I personally never used it but many hackintosh users did

A simplified method to update a working EFI is an app you know (OCAT), I suggest to try it in all its feature to learn in a guided way how to modify stuff

Before of this to read OpenCore documentation, which is the "Sacro Graal" to follow with inside all the advices of opencore boot loader creator to achieve perfect result of our hackintosh

An important thing to know as AMD Cpu user is that your kernel patches are created to support your CPU core number, this for **algrey - Force cpuid_cores_per_package**, if you update your cpu with a (ie) a 5900x, you have to change the values you find in replace part of your patches:

| | |
|---|---|
| B80800000000 | |
| BA0800000000 | |
| BA0800000090 | |

B8**08**

BA**08**

BA**08**

08 means 8 core

if you change your CPU with a 12 core cpu, 08 will become 0C (12 in ex)

## 2) kext to use

Usually to start it is better to use less you can

in many situation system could boot fine only with Lilu and virtualSmc kexts only

then you can refine your system in a better way to use all device you have (Bluetooth / wifi, audio and so on)

a simplified schema for many hardware could be:

lilu

virtualSMc

AppleAlc

WhateverGreen

but this is a part of user study and passion to have own system working as he desires

### 3) app to edit config .plist

Xcode

Plist Editor pro (not free)

Xplist

OCAT

OCAT has a graphical interface and many option to start also without to be a coder or with only less skill and time to learn

### 4) hackintosh forum are the best option to learn this field

personally I am here on hackintosh forum and on macOS86.it

### 5) place where you can find always updated kernel patches for AMD System

AMD OSX vanilla GitHub