



## Change bios settings from Linux userland

charlieh0tel 🕒 Dec 21st 2021



charlieh0tel

[Beginner]

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Dec 21st 2021

Is it possible to change bios settings from Linux userland?

I found the coreboot nvramtool but it seems I need a CMOS layout file. I've found several in the coreboot source tree, but none seem complete and all show checksum errors.

We're on 4.14 and going to 4.15.

Thanks,  
-- Christopher



uwe

[Beginner]

Posts:

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Jan 14th 2022

Hi,  
  
please see my answer in another thread.

Uwe



mkopec

[Administrator]

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Feb 16th 2022

@charlieh0tel

We don't actually store the BIOS settings in CMOS, we store them in the BIOS Flash instead.  
We now have a tool for changing BIOS settings in a coreboot binary from Linux:  
<https://github.com/pcengines/cb-order> (<https://github.com/pcengines/cb-order>)

To use it, you need to:

- Read the current BIOS using flashrom -p internal -r bios.rom
- Run cb-order bios.rom and change the settings
- Write the changed bios using flashrom:
- For apu2-6 running firmware 4.14.0.1 or later: flashrom -p internal -w bios.rom --fmap -i BOOTORDER
- For everything else: flashrom -p internal -w bios.rom