

Linux Kernel Ported To WebAssembly - Demo Lets You Run It In Your Web Browser

Written by [Michael Larabel](#) in [Linux Kernel](#) on 1 November 2025 at 10:40 AM EDT. [26 Comments](#)



Open-source developer Joel Severin today announced his work on porting the Linux kernel to WebAssembly and has successfully gotten the kernel up and running within WASM-capable web browsers.

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Welcome to Linux running on Wasm!

Known bugs:

- * Terminal input freezes after a while (timer issue).
- * dup_fd, wq_worker_comm, rcu_os crash (memory corruption (fixed?)).
- * longjmp() does not work (not implemented yet).

~ #

Joel Severin described of this WASM kernel effort:

"Now, this is a technology demo, it's to show what's possible. There are some things where what we have today makes this more painful than it has to be. The good news is that if there is a will to go forward with Linux and Wasm, at least I don't see why the current restrictions cannot be lifted. But, there would need to be a commitment from Linux and Wasm people, not to mention the whole ecosystem around it, to actually implement those changes. Some fundamentals of each platform would need to change for a smooth experience, especially so on