Layer-two project Cartesi has unveiled a rollup-centric design for its Cartesi Machine, a Linux-based virtual machine that would allow developers to run any type of computing application secured via blockchains.

Cartesi’s design uses a slightly modified version of Optimistic Rollups, a layer-two technology developed within the Ethereum ecosystem, to power its virtual machine. In contrast with Optimism’s implementation, which uses this type of rollups primarily to maintain full compatibility with Ethereum smart contracts, Cartesi wants to offer a traditional development environment.

The Cartesi virtual machine emulates a RISC-V microprocessor architecture, an open-source alternative to the ARM instruction set commonly used in smartphones or Apple’s M1-based computers. The RISC-V architecture allows running standard software environments based on Linux. For developers building on Cartesi, this means that smart
contracts can be developed in virtually any language and development ecosystem, provided it is supported by Linux.

[3]

GNU Linux

Source URL: http://www.tuxmachines.org/node/147046

Links: