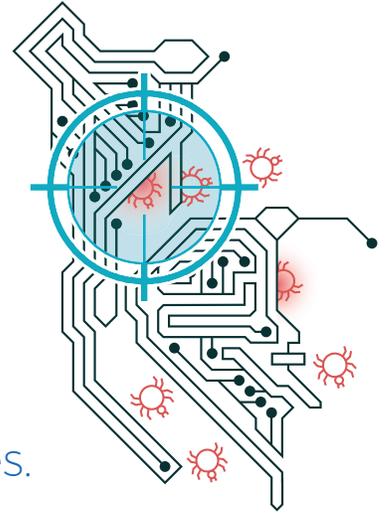# NOVETTA

FULL-SPECTRUM CYBER

MILLSTONE

Quickly uncover software vulnerabilities.

Millstone is an automated, scalable, multi-architectural fuzzing framework designed to find vulnerabilities in software. Automation significantly reduces engineering labor required to hunt for vulnerabilities, while scalability significantly lowers the need for concurrent labor with trivial increases in compute costs. As a result, Millstone finds more high-value vulnerabilities than competing approaches.

Traditional fuzzers are limited in that they use concrete execution - the program takes only one path, determined by the input values. Millstone implements advanced technologies including concolic execution, taint analysis, advanced software emulation, and smart fuzz case generation. These technologies collectively provide both concrete and symbolic execution, allowing Millstone to take any feasible path and increase code coverage. Millstone is also a decentralized, multi-process Python framework which scales linearly with additional hardware. Millstone supports x86 embedded Linux and can be extended to support additional architectures and platforms.
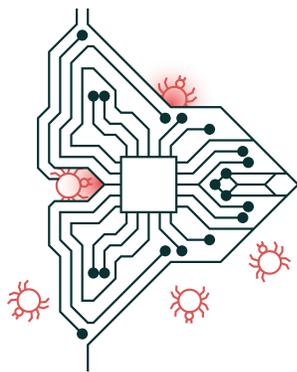
ZERO-DAYS

Millstone helps penetration testers identify and illustrate threats posed to enterprises by newly-discovered software vulnerabilities, also known as zero-days, capable of breaching the perimeter and moving laterally through enterprise networks.

Developers use Millstone to identify and reduce vulnerabilities, thereby improving the robustness and quality of their secure software.

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