

Why Fuzz Test?

The Attack Surface is Expanding

According to Cybersecurity Ventures, the application attack surface is growing by 111 billion lines of software code every year, with newly reported zero-day exploits rising from one-per-week in 2015 to one-per-day by 2021.

Fuzzing is Proven

Teams at Google report that fuzzing finds 80% of their bugs, while the other 20% is uncovered by other forms of testing, or in production.

Organizations such as Microsoft, Carnegie Mellon University, and Google have found success with their in-house fuzzing programs.

1,800

11,687

27,000

Bugs and vulnerabilities in Office

Microsoft

in Linux

Carnegie Mellon University

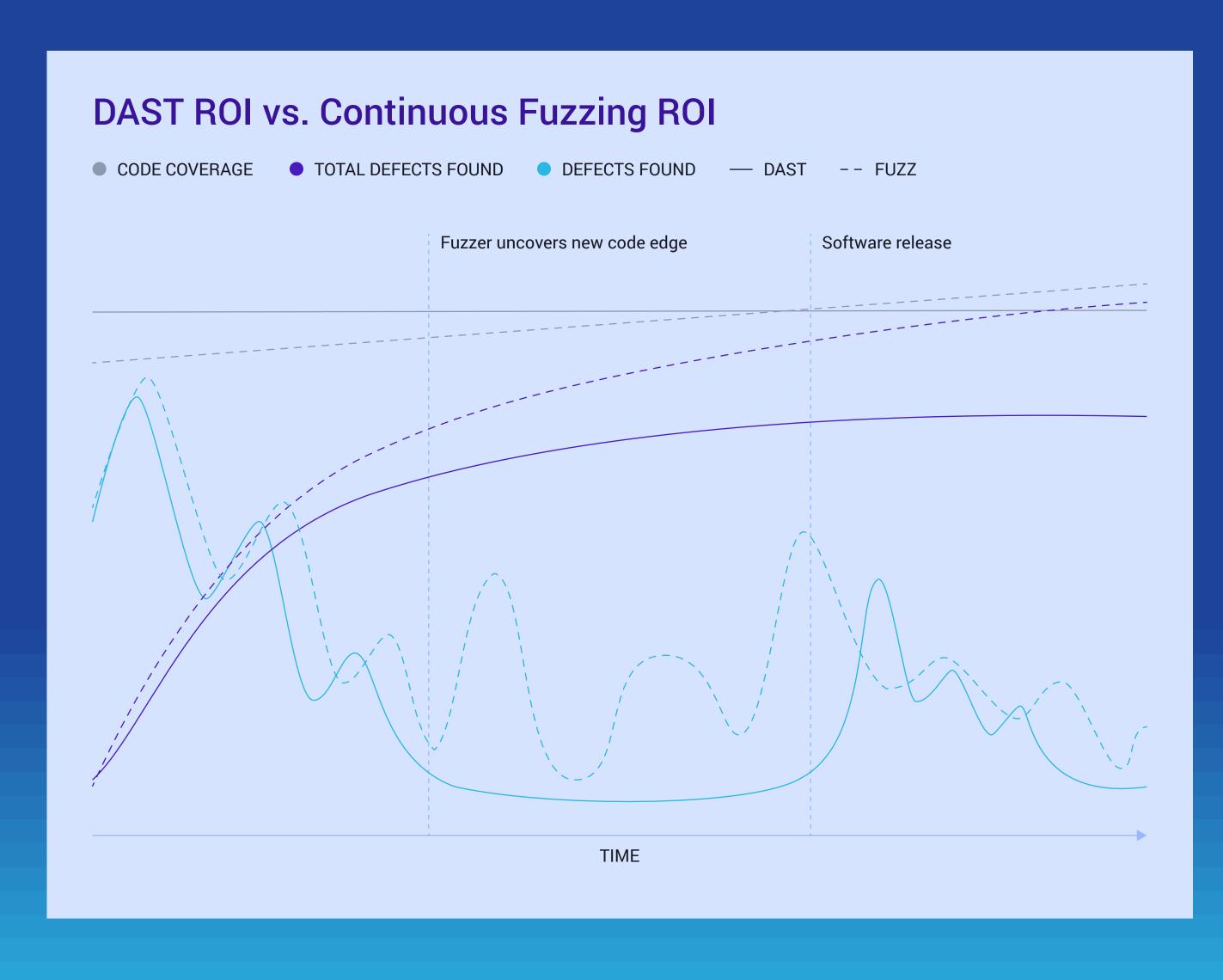
Bugs and vulnerabilities

Bugs and vulnerabilities in Chrome and OSS

Google

Continuous Security with Continuous Returns

Continuous fuzzers are highly effective because they perpetually conduct negative testing. The Pesticide Paradox claims that if the same tests are repeated over and over again, new defects are no longer found, ROI diminishes, and defects are clustered in limited sections of the software, creating hotspots. Continous fuzzers autonomously generate new test cases for continuous ROI.



Fuzzing is a recommended practice in the Microsoft Secure Development Lifecycle (SDLC). Although fuzzing is listed under

REQUIREMENTS

TRAINING

Fuzzing is Accepted

the Implementation category, "shift-left" testing philosophies states the earlier in the SDLC you can introduce it, the better.

DESIGN



IMPLEMENTATION

behemoth, such as Microsoft, Google, Amazon, Apple, and more. While the benefits

Why Doesn't Everyone Fuzz?

Until recently, fuzzing has been a software

security practice exclusive to tech

of fuzzing are undeniable, it's not easy to harness its power without a commercial offering that helps organizations get started.

it is possible to bootstrap and operate high-performance fuzzers, people often underestimate the complexity of upstanding such solutions. They have disclosed that even with their padded budgets and world-class experts, it took Google years to achieve full automation."

"Security engineers of the

ClusterFuzz and OSS-Fuzz

teams have disclosed that while

RELEASE

RESPONSE

fuzzer? Listed below is a suggested buyer's criteria framework.

Not All Fuzzers Are Equal

Efficient

Automatically and accurately uncovers defects with little time and resources

Experience

Higher CPU years indicate more experience and knowledge on a test target

Recent advancements in fuzzing have made this advanced

technique available to the general public. So, what makes a great



Smart

Analyzes targets to generate inputs that are most likely to find defects



Reproducibility

for remediation

Enable reproduction of vulnerabilities

Continuous

Perpetually tests for defects

Want to learn how fuzzing fits into your application security program?

Comprehensive
Application Security
Testing

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